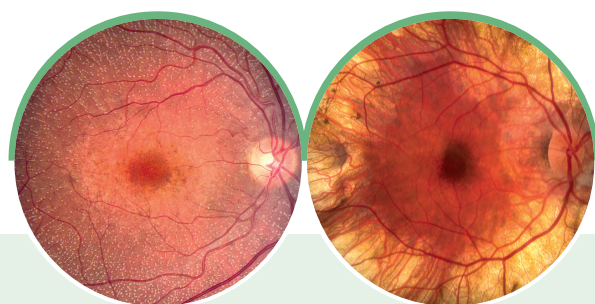


# Gass 黄斑病学图谱



## Gass' Atlas of Macular Diseases

5th Edition

### 参考文献

Anita Agarwal[美] 著

孙晓东 主译

汪枫桦 宫媛媛 袁源智 副主译



上海科学技术出版社

## 第 1 章

- [1] Hogan MJ, Alvarado JA, Weddell JE. Histology of the human eye: an atlas and textbook. Philadelphia: WB Saunders; 1971. p. 508–19.
- [2] Justice Jr J, Lehmann RP. Cilioretinal arteries: a study based on review of stereo fundus photographs and fluorescein angiographic findings. Arch Ophthalmol 1976;94:1355–8.
- [3] Michaelson IC, editor. Retinal circulation in man and animals. Springfield, IL: Charles C Thomas; 1954.
- [4] Hogan MJ, Alvarado JA, Weddell JE. Histology of the human eye: an atlas and textbook. Philadelphia: WB Saunders; 1971.
- [5] Weiter JJ, Delori FC, Wing GL, et al. Retinal pigment epithelial lipofuscin and melanin and choroidal melanin in human eyes. Ophthalmol Vis Sci 1986;27:145–52.
- [6] Auran J. Localization and optical density determination of the macular pigment within the layers of monkey retinas. Harvard, MA: Harvard College; 1979.
- [7] Nussbaum JJ, Pruett RC, Delori FC. Historic perspectives: macular yellow pigment; the first 200 years. Retina 1981;1:296–310.
- [8] Snodderly DM, Auran J, Delori FC. Localization of the macular pigment. ARVO Abstracts. Invest Ophthalmol Vis Sci 1979;18(Suppl.):80.
- [9] Snodderly DM, Auran JD, Delori FC. The macular pigment. II. Spatial distribution in primate retinas. Invest Ophthalmol Vis Sci 1984;25:674–85.
- [10] Wald G. Human vision and the spectrum. Science 1945;101:653–8.
- [11] Bone RA, Landrum JT, Hine GW, et al. Stereochemistry of the human macular carotenoids. Invest Ophthalmol Vis Sci 1993;34:2033–40.
- [12] Fine BS. Limiting membranes of the sensory retina and pigment epithelium: an electron microscopic study. Arch Ophthalmol 1961;66:847–60.
- [13] Gass JD. Muller cell cone, an overlooked part of the anatomy of the fovea centralis: hypotheses concerning its role in the pathogenesis of macular hole and foveomacular retinoschisis. Arch Ophthalmol 1999;117:821–3.
- [14] Yamada E. Some structural features of the fovea centralis in the human retina. Arch Ophthalmol 1969;82:151–9.
- [15] Marquardt R. Ein Beitrag zur Topographie und Anatomie der Netzhautgefäße des menschlichen Auges. Klin Monatsbl Augenheilkd 1966;148:50–64.
- [16] Toussaint D, Kuwabara T, Cogan DG. Retinal vascular patterns. Part II. Human retinal vessels studied in three dimensions. Arch Ophthalmol 1961;65:575–81.
- [17] Shimizu K, Ujiie K. Structure of ocular vessels. Tokyo: Igaku Shoin; 1978.
- [18] Henkind P, Bellhorn RW, Murphy ME, et al. Development of macular vessels in monkey and cat. Br J Ophthalmol 1975;59:703–9.
- [19] Tso MOM, Friedman E. The retinal pigment epithelium. I. Comparative histology. Arch Ophthalmol 1967;78:641–9.
- [20] Araki M. Observations on the corrosion casts of the choriocapillaris. Acta Soc Ophthalmol Jpn 1976;80:315–26.
- [21] Hayreh SS. Submacular choroidal vasculature pattern: experimental fluorescein fundus angiographic studies. Albrecht von Graefes Arch Klin Exp Ophthalmol 1974;192:181–96.
- [22] Itotagawa S, Fukumi K, Doi H. Observations on the plastic cast of the choroidal vasculature. Part I. Vascular characteristics in the submacular area. Acta Soc Ophthalmol Jpn 1977;81:678–87.
- [23] Risco JM, Grimson BS, Johnson PT. Angioarchitecture of the ciliary artery circulation of the posterior pole. Arch Ophthalmol 1981;99:864–8.
- [24] Torczynski E, Tso MOM. The architecture of the choriocapillaris at the posterior pole. Am J Ophthalmol 1976;81:428–40.
- [25] Amalric PM. Choroidal vessel occlusive syndromes – clinical aspects. Trans Am Acad Ophthalmol Otolaryngol 1983;77:OP291–OP299.
- [26] Hayreh SS. The choriocapillaris. Albrecht von Graefes Arch Klin Exp Ophthalmol 1974;192:165–79.
- [27] Hayreh SS. Segmental nature of the choroidal vasculature. Br J Ophthalmol 1975;59:631–48.
- [28] Krey HF. Segmental vascular patterns of the choriocapillaris. Am J Ophthalmol 1975;80:198–206.
- [29] Dollery CT, Henkind P, Kohner EM, et al. Effect of raised intraocular pressure on the retinal and choroidal circulation. Invest Ophthalmol 1968;7:191–8.
- [30] Hayreh SS. Recent advances in fluorescein fundus angiography. Br J Ophthalmol 1974;58:391–412.
- [31] Perry HD, Hatfield RV, Tso MOM. Fluorescein pattern of the choriocapillaris in the neonatal rhesus monkey. Am J Ophthalmol 1977;84:197–204.
- [32] Weiter JJ, Ernest JT. Anatomy of the choroidal vasculature. Am J Ophthalmol 1974;78:583–90.
- [33] Ernest JT, Stern WH, Archer DB. Submacular choroidal circulation. Am J Ophthalmol 1976;81:574–82.
- [34] Alm A, Bill A. Ocular and optic nerve blood flow at normal and increased intraocular pressures in monkeys (*Macaca irus*): a study with radioactively labelled microspheres including flow determinations in brain and some other tissues. Exp Eye Res 1973;15:15–29.
- [35] Parver LM, Auker CR, Carpenter DO. The stabilizing effect of the choroidal circulation on the temperature environment of the macula. Retina 1982;2:117–20.
- [36] Flower RW, Hochheimer BF. Indocyanine green dye fluorescence and infrared absorption choroidal angiography performed simultaneously with fluorescein angiography. Johns Hopkins Med J 1976;138:33–42.
- [37] Fox JJ, Wood EH. Indocyanine green: physical and physiologic properties. Proc Staff Mtgs Mayo Clin 1960;35:732–44.
- [38] Kogure K, David NJ, Yamanouchi U, et al. Infrared absorption angiography of the fundus circulation. Arch Ophthalmol 1970;83:209–14.
- [39] Guyer DR, Puliafito CA, Monés JM, et al. Digital indocyanine-green angiography in chorioretinal disorders. Ophthalmology 1992;99:287–91.
- [40] Yannuzzi LA, Slakter JS, Sorenson JA, et al. Digital indocyanine green videoangiography and choroidal neovascularization. Retina 1992;12:191–223.
- [41] Hope-Ross M, Yannuzzi LA, Gragoudas ES, et al. Adverse reactions due to indocyanine green. Ophthalmology 1994;101:529–33.
- [42] Gass JDM. A fluorescein angiographic study of macular dysfunction secondary to retinal vascular disease. I. Embolic retinal artery obstruction. Arch Ophthalmol 1968;80:535–49.

## 第2章

- [1] Cohen SMZ, Fine SL, Murphy RP, et al. Transient delay in choroidal filling after krypton red laser photocoagulation for choroidal neovascular membranes. *Retina* 1983;3:284–90.
- [2] Gass JDM, Norton EWD, Justice Jr J. Serous detachment of the retinal pigment epithelium. *Trans Am Acad Ophthalmol Otolaryngol* 1966;70:990–1015.
- [3] Gass JDM. Biomicroscopic and histopathologic considerations regarding the feasibility of surgical excision of subfoveal neovascular membranes. *Am J Ophthalmol* 1994;118:285–98.
- [4] Guyer DR, Puliafito CA, Monés JM, et al. Digital indocyanine green angiography in chorioretinal disorders. *Ophthalmology* 1992;99:287–91.
- [5] Kirber WM, Nichols CW, Grimes PA, et al. A permeability defect of the retinal pigment epithelium; occurrence in early streptozocin diabetes. *Arch Ophthalmol* 1980;98:725–8.
- [6] Marshall J, Glover G, Rothery S. Some new findings on retinal irradiation by krypton and argon lasers. *Doc Ophthalmol Proc Ser* 1984;36:21–37.
- [7] Tso MOM, Cunha-Vaz JGF, Shih C-Y, et al. A clinicopathologic study of blood–retinal barrier in experimental diabetes. *ARVO Abstracts. Invest Ophthalmol Vis Sci* 1979;18:169.
- [8] Casswell AG, Chaine G, Rush P, et al. Paramacular telangiectasis. *Trans Ophthalmol Soc UK* 1986;105:683–92.
- [9] Flower RW, Hochheimer BF. Indocyanine green dye fluorescence and infrared absorption choroidal angiography performed simultaneously with fluorescein angiography. *Johns Hopkins Med J* 1976;138:33–42.
- [10] Chang AA, Morse LS, Handa JT, et al. Histologic localization of indocyanine green dye in aging primate and human ocular tissues with clinical angiographic correlation. *Ophthalmology* 1998;105:1060–8.
- [11] Orth DH, Patz A, Flower RW. Potential clinical applications of indocyanine green choroidal angiography – preliminary report. *Eye Ear Nose Throat Mon* 1976;55:15–28. [58.]
- [12] Flower RW, Hochheimer BF. A clinical technique and apparatus for simultaneous angiography of the separate retinal and choroidal circulations. *Invest Ophthalmol* 1973;12:248–61.
- [13] Geeraets WJ, Berry ER. Ocular spectral characteristics as related to hazards from lasers and other light sources. *Am J Ophthalmol* 1968;66:15–20.
- [14] Baker KJ. Binding of sulfobromophthalein (BSP) sodium and indocyanine green (ICG) by plasma alpha-1 lipoproteins. *Proc Soc Exp Biol Med* 1966;122:957–63.
- [15] Ho AC, Yannuzzi LA, Guyer DR, et al. Intraretinal leakage of indocyanine green dye. *Ophthalmology* 1994;101:534–41.
- [16] Stanga PE, Lim JI, Hamilton P. Indocyanine green angiography in chorioretinal diseases: indications and interpretation: an evidence-based update. *Ophthalmology* 2003;110:15–21. [quiz 2–3.]
- [17] Delori FC, Goger DG, Dorey CK. Age-related accumulation and spatial distribution of lipofuscin in RPE of normal subjects. *Invest Ophthalmol Vis Sci* 2001;42:1855–66.
- [18] Delori FC, Fleckner MR, Goger DG, et al. Autofluorescence distribution associated with drusen in age-related macular degeneration. *Invest Ophthalmol Vis Sci* 2000;41:496–504.
- [19] Yin D. Biochemical basis of lipofuscin, ceroid, and age pigment-like fluorophores. *Free Radic Biol Med* 1996;21:871–88.
- [20] Senba M. Autofluorescence of lipofuscin granules? *Am J Clin Pathol* 1985;83:134.
- [21] Kim DY, Hwang JC, Moore AT, et al. Fundus autofluorescence and optical coherence tomography of congenital grouped albinotic spots. *Retina* 2010;30:1217–22.
- [22] Sparrow JR, Kim SR, Cuervo AM, et al. A2E, a pigment of RPE lipofuscin, is generated from the precursor, A2PE by a lysosomal enzyme activity. *Adv Exp Med Biol* 2008;613:393–8.
- [23] Sparrow JR, Cai B, Jang YP, et al. A2E, a fluorophore of RPE lipofuscin, can destabilize membrane. *Adv Exp Med Biol* 2006;572:63–8.
- [24] Bakall B, Radu RA, Stanton JB, et al. Enhanced accumulation of A2E in individuals homozygous or heterozygous for mutations in BEST1 (VMD2). *Exp Eye Res* 2007;85:34–43.
- [25] Delori FC. Autofluorescence method to measure macular pigment optical densities fluorometry and autofluorescence imaging. *Arch Biochem Biophys* 2004;430:156–62.
- [26] Parish CA, Hashimoto M, Nakanishi K, et al. Isolation and one-step preparation of A2E and iso-A2E, fluorophores from human retinal pigment epithelium. *Proc Natl Acad Sci USA* 1998;95:14609–14613.
- [27] Huang D, Swanson EA, Lin CP, et al. Optical coherence tomography. *Science* 1991;254:1178–81.
- [28] Swanson EA, Izatt JA, Hee MR, et al. In vivo retinal imaging by optical coherence tomography. *Opt Lett* 1993;18:1864–6.
- [29] Fujimoto JG, Brezinski ME, Tearney GJ, et al. Optical biopsy and imaging using optical coherence tomography. *Nat Med* 1995;1:970–2.
- [30] Mundt Jr GH, Hughes Jr WF. Ultrasonics in ocular diagnosis. *Am J Ophthalmol* 1956;41:488–98.
- [31] Baum G, Greenwood I. The application of ultrasonic locating techniques to ophthalmology. II. Ultrasonic slit lamp in the ultrasonic visualization of soft tissues. *AMA Arch Ophthalmol* 1958;60:263–79.
- [32] Baum G. An evaluation of techniques used in the radiation of the eye with ultrasonic energy. *Am J Phys Med* 1957;36:212–20.
- [33] Coleman DJ, Weininger R. Ultrasonic M-mode technique in ophthalmology. *Arch Ophthalmol* 1969;82:475–9.
- [34] Bronson II NR. Intraocular foreign bodies. Ultrasonic localization. *Int Ophthalmol Clin* 1968;8:199–203.
- [35] Bronson NR. Techniques of ultrasonic localization and extraction. *Am J Ophthalmol* 1965;60:596–603.
- [36] Babcock HW. Adaptive optics revisited. *Science* 1990;249:253–7.
- [37] Hubin N, Noethe L. Active optics, adaptive optics, and laser guide stars. *Science* 1993;262:1390–4.
- [38] Liang J, Williams DR, Miller DT. Supernormal vision and high-resolution retinal imaging through adaptive optics. *J Opt Soc Am A Opt Image Sci Vis* 1997;14:2884–92.
- [39] Roorda A, Romero-Borja F, Donnelly Iii W, et al. Adaptive optics scanning laser ophthalmoscopy. *Opt Express* 2002;10:405–12.
- [40] Chui TY, Song H, Burns SA. Adaptive-optics imaging of human cone photoreceptor distribution. *J Opt Soc Am A Opt Image Sci Vis* 2008;25:3021–9.
- [41] Godara P, Rha J, Tait DM, et al. Unusual adaptive optics findings in a patient with bilateral maculopathy. *Arch Ophthalmol* 2010;128:253–4.
- [42] Yoon MK, Roorda A, Zhang Y, et al. Adaptive optics scanning laser ophthalmoscopy images in a family with the mitochondrial DNA T8993C mutation. *Invest Ophthalmol Vis Sci* 2009;50:1838–47.
- [43] Kretschmann U, Gendo K, Seeliger M, et al. Multifocal ERG recording by the VERIS technique and its clinical applications. *Dev Ophthalmol* 1997;29:8–14.
- [44] Chappelov AV, Marmor MF. Effects of pre-adaptation conditions and ambient room lighting on the multifocal ERG. *Doc Ophthalmol* 2002;105:23–31.

- [45] Hood DC. Assessing retinal function with the multifocal technique. *Prog Retin Eye Res* 2000;19:607-46.
- [46] Hood DC, Odel JG, Chen CS, et al. The multifocal electroretinogram. *J Neuroophthalmol* 2003;23:225-35.
- [47] Hood DC, Bach M, Brigell M, et al. ISCEV guidelines for clinical multifocal electroretinography (2007 edition). *Doc Ophthalmol* 2008;116:1-11.
- [48] Hood DC, Zhang X. Multifocal ERG and VEP responses and visual fields: comparing disease-related changes. *Doc Ophthalmol* 2000;100:115-37.
- [49] Francois J, Verriest G, De Rouck A. Modification of the amplitude of the human electro-oculogram by light and dark adaptation. *Br J Ophthalmol* 1955;39:398-408.
- [50] Monnier M, Hufschmid HJ. [Electro-oculogram (EOG) and electro-nystagmogram (ENG) in man.] *Helv Physiol Pharmacol Acta* 1951;9:348-66.
- [51] Elenius V, Aantaa E. Light-induced increase in amplitude of electro-oculogram. Evoked with blue and red lights in totally color-blind and normal humans. *Arch Ophthalmol* 1973;90:60-3.
- [52] Kolb H. Electro-oculogram findings in patients treated with antimalarial drugs. *Br J Ophthalmol* 1965;49:573-90.

### 第3章

- [1] Archer DB. Neovascularization of the retina. *Trans Ophthalmol Soc UK* 1976;96:471-93.
- [2] Archer DB, Gardiner TA. Electron microscopic features of experimental choroidal neovascularization. *Am J Ophthalmol* 1981;91:433-57.
- [3] Archer DB, Gardiner TA. Morphologic, fluorescein angiographic, and light microscopic features of experimental choroidal neovascularization. *Am J Ophthalmol* 1981;91:297-311.
- [4] Miller M, Miller B, Ryan SJ. The role of retinal pigment epithelium in the involution of subretinal neovascularization. *Invest Ophthalmol Vis Sci* 1986;27:1644-52.
- [5] Ohkuma H, Ryan SJ. Experimental subretinal neovascularization in the monkey; permeability of new vessels. *Arch Ophthalmol* 1983;101:1102-10.
- [6] Ryan SJ. The development of an experimental model of subretinal neovascularization in disciform macular degeneration. *Trans Am Ophthalmol Soc* 1979;77:707-45.
- [7] Ryan SJ. Subretinal neovascularization after argon laser photocoagulation. *Albrecht von Graefes Arch Klin Exp Ophthalmol* 1980;215:29-42.
- [8] Bennett G. Central serous retinopathy. *Br J Ophthalmol* 1955;39:605-18.
- [9] Burton TC. Central serous retinopathy. In: Blodi FC, editor. *Current concepts in ophthalmology*. St. Louis: CV Mosby; 1972. p. 1-28.
- [10] Edwards TS, Priestley BS. Central angiospastic retinopathy. *Am J Ophthalmol* 1964;57:988-96.
- [11] Gass JDM. Bullous retinal detachment: an unusual manifestation of idiopathic central serous choroidopathy. *Am J Ophthalmol* 1973;75:810-21.
- [12] Gass JDM. Pathogenesis of disciform detachment of the neuroepithelium. II. Idiopathic central serous choroidopathy. *Am J Ophthalmol* 1967;63:587-615.
- [13] Gass JD, Norton EWD, Justice Jr J. Serous detachment of the retinal pigment epithelium. *Trans Am Acad Ophthalmol Otolaryngol* 1966;70:990-1015.
- [14] Gelber GS, Schatz H. Loss of vision due to central serous chorioretinopathy following psychological stress. *Am J Psychiatry* 1987;144:46-50.
- [15] Gifford SR, Marquardt G. Central angiospastic retinopathy. *Arch Ophthalmol* 1939;21:211-28.
- [16] Klein BA. Symposium: macular diseases. Clinical manifestations. I. Central serous retinopathy and chorioretinopathy. *Trans Am Acad Ophthalmol Otolaryngol* 1965;69:614-22.
- [17] Mitsui Y, Sakanashi R. Central angiospastic retinopathy. *Am J Ophthalmol* 1956;41:105-14.
- [18] Straatsma BR, Allen RA, Pettit TH. Central serous retinopathy. *Trans Pacif Cst Oto-Ophthalmol Soc* 1966;47:107-27.
- [19] von Graefe A. Ueber centrale recidivirende Retinitis. *Albrecht von Graefes Arch Ophthalmol* 1866;12:211-5.
- [20] Walsh FB, Sloan LL. Idiopathic flat detachment of the macula. *Am J Ophthalmol* 1936;19:195-208.
- [21] Gass JDM. Pathogenesis of disciform detachment of the neuroepithelium. I. General concepts and classification. *Am J Ophthalmol* 1967;63:573-85.
- [22] Gass JDM. Central serous chorioretinopathy and white subretinal exudation during pregnancy. *Arch Ophthalmol* 1991;109:677-81.
- [23] Laatikainen L, Hoffren M. Long-term follow-up study of nonseptic detachment of the retinal pigment epithelium. *Eur J Ophthalmol* 1991;1:79-84.
- [24] Lewis ML. Idiopathic serous detachment of the retinal pigment epithelium. *Arch Ophthalmol* 1978;96:620-4.
- [25] Friberg TR, Campagna J. Central chorioretinopathy: an analysis of the clinical morphology using image-processing techniques. *Graefes Arch Clin Exp Ophthalmol* 1989;27:201-5.
- [26] Fujisawa Y. Clinical studies on central serous chorioretinitis by fluorescein fundus photography. *Jpn J Ophthalmol* 1966;10:19-26.
- [27] Lyons DE. Conservative management of central serous retinopathy. *Trans Ophthalmol Soc UK* 1977;97:214-6.
- [28] Nadel AJ, Turan MI, Coles RS. Central serous retinopathy; a generalized disease of the pigment epithelium. *Mod Probl Ophthalmol* 1979;20:76-88.
- [29] Nørholm I. Central serous retinitis; a follow-up study. *Acta Ophthalmol* 1969;47:890-9.
- [30] Norton EWD, Gass JD, Smith JL, et al. Symposium: macular diseases. Diagnosis; fluorescein in the study of macular disease. *Trans Am Acad Ophthalmol Otolaryngol* 1965;69:631-42.
- [31] Spitznas M, Huke J. Number, shape, and topography of leakage points in acute type I central serous retinopathy. *Graefes Arch Clin Exp Ophthalmol* 1987;225:437-40.
- [32] Yamada K, Hayasaka S, Setogawa T. Fluorescein-angiographic patterns in patients with central serous chorioretinopathy at the initial visit. *Ophthalmologica* 1992;205:69-76.
- [33] Shimizu K, Tobar I. Central serous retinopathy dynamics of subretinal fluid. *Mod Probl Ophthalmol* 1971;9:152-7.
- [34] Gass JDM. Photocoagulation treatment of idiopathic central serous choroidopathy. *Trans Am Acad Ophthalmol Otolaryngol* 1977;83:OP456-OP463.
- [35] Goldstein BG, Pavan PR. "Blow-outs" in the retinal pigment epithelium. *Br J Ophthalmol* 1987;71:676-81.



- [36] Yannuzzi LA, Shakin JL, Fisher YL, et al. Peripheral retinal detachments and retinal pigment epithelial atrophic tracts secondary to central serous pigment epitheliopathy. *Ophthalmology* 1984;91:1554-72.
- [37] Hayashi K, Hasegawa Y, Tokoro T. Indocyanine green angiography of central serous chorioretinopathy. *Int Ophthalmol* 1986;9:37-41.
- [38] Scheider A, Nasemann JE, Lund O-E. Fluorescein and indocyanine green angiographies of central serous choroidopathy by scanning laser ophthalmoscopy. *Am J Ophthalmol* 1993;115:50-6.
- [39] Guyer DR, Yannuzzi LA, Slakter JS, et al. Digital indocyanine green videoangiography of central serous chorioretinopathy. *Arch Ophthalmol* 1994;112:1057-62.
- [40] Spaide RF, Campeas L, Haas A, et al. Central serous chorioretinopathy in younger and older adults. *Ophthalmology* 1996;103:2070-9. [discussion 2079-2080]
- [41] Maruko I, Iida T, Ojima A, et al. Subretinal dot-like precipitates and yellow material in central serous chorioretinopathy. *Retina* 2010 Nov 3 [in press]
- [42] Imamura Y, Fujiwara T, Spaide RF. Fundus autofluorescence and visual acuity in central serous chorioretinopathy. *Ophthalmology* 2010 Nov 3 [in press]
- [43] Spaide RF, Klancnik Jr JM. Fundus autofluorescence and central serous chorioretinopathy. *Ophthalmology* 2005;112:825-33.
- [44] Imamura Y, Fujiwara T, Margolis R, et al. Enhanced depth imaging optical coherence tomography of the choroid in central serous chorioretinopathy. *Retina* 2009;29:1469-73.
- [45] Ooto S, Tsujikawa A, Mori S, et al. Thickness of photoreceptor layers in polypoidal choroidal vasculopathy and central serous chorioretinopathy. *Graefes Arch Clin Exp Ophthalmol* 2010;248:1077-86.
- [46] Castro-Correia J, Coutinho MF, Rosas V, et al. Long-term follow-up of central serous retinopathy in 150 patients. *Doc Ophthalmol* 1992;81:379-86.
- [47] Yannuzzi LA, Slakter JS, Kaufman SR, et al. Laser treatment of diffuse retinal pigment epitheliopathy. *Eur J Ophthalmol* 1992;2:103-14.
- [48] Gass JDM, Little HL. Bilateral bullous exudative retinal detachment complicating idiopathic central serous chorioretinopathy during systemic corticosteroid therapy. *Ophthalmology* 1995;102:737-47.
- [49] Akiyama K, Kawamura M, Ogata T, et al. Retinal vascular loss in idiopathic central serous chorioretinopathy with bullous retinal detachment. *Ophthalmology* 1987;94:1605-9.
- [50] Brancato R, Scialdone A, Pece A, et al. Eight-year follow-up of central serous chorioretinopathy with and without laser treatment. *Graefes Arch Clin Exp Ophthalmol* 1987;225:166-8.
- [51] Dickhoff KV, Hoffren M, Laatikainen L. Les modifications de l'épithélium pigmentaire rétinien en rapport avec la rétinopathie séreuse centrale. *J Fr Ophtalmol* 1989;12:877-81.
- [52] O'Connor PR. Multifocal serous choroidopathy. *Ann Ophthalmol* 1975;7:237-45.
- [53] Benson WE, Shields JA, Annesley Jr WH, et al. Idiopathic central serous chorioretinopathy with bullous retinal detachment. *Ann Ophthalmol* 1980;12:920-4.
- [54] Kayazawa F. Central serous choroidopathy with exudative retinal detachment. *Ann Ophthalmol* 1982;14:1035-42.
- [55] Tsukahara I, Uyama M. Central serous choroidopathy with bullous retinal detachment. *Albrecht von Graefes Arch Klin Exp Ophthalmol* 1978;206:169-78.
- [56] Weiler W, Foerster MH. Exsudative Netzhautablösung Wessing A. Pigmentepithelriss und subretinales Exsudat bei einem Fall von Retinopathia centralis serosa. *Klin Monatsbl Augenheilkd* 1991;199:450-3.
- [57] Menerath JM, Bacin F, Al-Odeh A, et al. Déchirure géante et périphérique de l'épithélium pigmentaire rétinien. *J Fr Ophtalmol* 1992;15:282-7.
- [58] Carpenter MT, O'Boyle JE, Enzenauer RW, et al. Choroiditis in systemic lupus erythematosus. *Am J Ophthalmol* 1994;117:535-6.
- [59] Diddie K, Aronson AJ, Ernest JT. Chorioretinopathy in a case of systemic lupus erythematosus. *Trans Am Ophthalmol Soc* 1977;75:122-31.
- [60] Eckstein MB, Spalton DJ, Holder G. Visual loss from central serous retinopathy in systemic lupus erythematosus. *Br J Ophthalmol* 1993;77:607-9.
- [61] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 276-277.
- [62] Jabs DA, Hanneken AM, Schachat AP, et al. Choroidopathy in systemic lupus erythematosus. *Arch Ophthalmol* 1988;106:230-4.
- [63] Matsuo T, Nakayama T, Koyama T, et al. Multifocal pigment epithelial damages with serous retinal detachment in systemic lupus erythematosus. *Ophthalmologica* 1987;195:97-102.
- [64] Schreiber JB, Lakhnani V, Nasrallah SM. Crohn's disease complicated by idiopathic central serous chorioretinopathy with bullous retinal detachment. *Dig Dis Sci* 1989;34:118-22.
- [65] Williamson J, Nuki G. Macular lesions during systemic therapy with depot tetracosactrin. *Br J Ophthalmol* 1970;54:405-9.
- [66] Gass JDM. Bullous retinal detachment and multiple retinal pigment epithelial detachments in patients receiving hemodialysis. *Graefes Arch Clin Exp Ophthalmol* 1992;230:454-8.
- [67] Friberg TR, Eller AW. Serous retinal detachment resembling central serous chorioretinopathy following organ transplantation. *Graefes Arch Clin Exp Ophthalmol* 1990;228:305-9.
- [68] de Venecia G, editor. Fluorescein angiographic smoke stack. Case presentation at Verhoeff Society Meeting, April 24-25, 1982, Washington, DC.
- [69] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 46-59.
- [70] Quillen DA, Gass JDM, Brod RD, et al. Central serous chorioretinopathy in women. *Ophthalmology* 1996;103:72-9.
- [71] Bedrossian RH. Central serous retinopathy and pregnancy. *Am J Ophthalmol* 1974;78:152-4.
- [72] Chumbley LC, Frank RN. Central serous retinopathy and pregnancy. *Am J Ophthalmol* 1974;77:158-60.
- [73] Cruysberg JRM, Deutman AF. Visual disturbances during pregnancy caused by central serous choroidopathy. *Br J Ophthalmol* 1982;66:240-1.
- [74] Fastenberg DM, Ober RR. Central serous choroidopathy in pregnancy. *Arch Ophthalmol* 1983;101:1055-8.
- [75] Sunness JS. The pregnant woman's eye. *Surv Ophthalmol* 1988;32:219-38.
- [76] Sunness JS, Haller JA, Fine SL. Central serous chorioretinopathy and pregnancy. *Arch Ophthalmol* 1993;111:360-4.
- [77] Berger AR, Olk RJ, Burgess D. Central serous choroidopathy in patients over 50 years of age. *Ophthalmic Surg* 1991;22:583-90.
- [78] Schatz H, Madeira D, Johnson RN, et al. Central serous chorioretinopathy occurring in patients 60 years of age and older. *Ophthalmology* 1992;99:63-7.
- [79] Fraunfelder FW, Fraunfelder FT. Central serous chorioretinopathy associated with sildenafil. *Retina* 2008;28:606-9.
- [80] Quiram P, Dumars S, Parwar B, et al. Viagra-associated serous macular detachment. *Graefes Arch Clin Exp Ophthalmol* 2005;243:339-44.
- [81] Allibhai ZA, Gale JS, Sheidow TS. Central serous chorioretinopathy in a patient taking sildenafil citrate. *Ophthalmic Surg Lasers Imaging* 2004;35:165-7.
- [82] Iida T, Spaide RF, Haas A, et al. Leopard-spot pattern of yellowish subretinal deposits in central serous chorioretinopathy. *Arch Ophthalmol* 2002;120:37-42.

- [83] Lewis ML. Coexisting central serous choroidopathy and retinitis pigmentosa. *South Med J* 1980;73:77–80.
- [84] Fine SL, Owens SL. Central serous retinopathy in a 7-year-old girl. *Am J Ophthalmol* 1980;90:871–3.
- [85] Ficker L, Vafidis G, While A, et al. Long-term follow-up of a prospective trial of argon laser photocoagulation in the treatment of central serous retinopathy. *Br J Ophthalmol* 1988;72:829–34.
- [86] Klein ML, Van Buskirk EM, Friedman E, et al. Experience with nontreatment of central serous choroidopathy. *Arch Ophthalmol* 1974;91:247–50.
- [87] Leaver PK, Williams CM. Effects of central serous retinopathy on visual function. *Trans Ophthalmol Soc UK* 1977;97:655
- [88] Levine R, Brucker AJ, Robinson F. Long-term follow-up of idiopathic central serous chorioretinopathy by fluorescein angiography. *Ophthalmology* 1989;96:854–9.
- [89] Nanjiani M. Long-term follow-up of central serous retinopathy. *Trans Ophthalmol Soc UK* 1977;97:656–61.
- [90] Watzke RC, Burton TC, Leaverton PE. Ruby laser photocoagulation therapy of central serous retinopathy. I. A controlled clinical study. II. Factors affecting prognosis. *Trans Am Acad Ophthalmol Otolaryngol* 1974;78:OP205–OP211.
- [91] Chuang EL, Sharp DM, Fitzke FW, et al. Retinal dysfunction in central serous retinopathy. *Eye* 1987;1:120–5.
- [92] Folk JC, Thompson HS, Hand DP, et al. Visual function abnormalities in central serous retinopathy. *Arch Ophthalmol* 1984;102:1299–302.
- [93] Forsius H, Krause U, Eriksson A. Dazzling test in central serous retinopathy. *Acta Ophthalmol* 1964;41:25–32.
- [94] Koskela P, Laatikainen L, von Dickhoff K. Contrast sensitivity after resolution of central serous retinopathy. *Graefes Arch Clin Exp Ophthalmol* 1994;232:473–6.
- [95] Kovács B. Visual phenomena following light coagulation in central serous retinopathy (CSR). *Doc Ophthalmol* 1977;44:445–53.
- [96] Leaver P, Williams C. Argon laser photocoagulation in the treatment of central serous retinopathy. *Br J Ophthalmol* 1979;63:674–7.
- [97] Tsuneoka H, Kabayama T, Fukuda J, et al. Night visual acuity in patients with idiopathic central serous choroidopathy. *Jpn J Ophthalmol* 1980;24:178–87.
- [98] Uyama M, Uchida S. Central serous retinopathy and allied conditions: treatment with photocoagulation. In: Shimizu K, editor. *Fluorescein angiography; proceedings of the international symposium on fluorescein angiography (ISFA)*, Tokyo, 1972. Tokyo: Igaku Shoin; 1974. p. 405–9.
- [99] Van Meel GJ, Smith VC, Pokorny J, et al. Foveal densitometry in central serous choroidopathy. *Am J Ophthalmol* 1984;98:359–68.
- [100] Kanis MJ, van Norren D. Delayed recovery of the optical Stiles-Crawford effect in a case of central serous chorioretinopathy. *Br J Ophthalmol* 2008;92:292–4.
- [101] Robertson DM. Argon laser photocoagulation treatment in central serous chorioretinopathy. *Ophthalmology* 1986;93:972–4.
- [102] Gomolin JES. Choroidal neovascularization and central serous chorioretinopathy. *Can J Ophthalmol* 1989;24:20–3.
- [103] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 40.
- [104] Guyer DR, Yannuzzi LA, Slakter JS, et al. Digital indocyanine green videoangiography of central serous chorioretinopathy. *Arch Ophthalmol* 1994;112:1057–62.
- [105] Piccolino FC, Borgia L. Central serous chorioretinopathy and indocyanine green angiography. *Retina* 1994;14:231–42.
- [106] Spitznas M. Pathogenesis of central serous retinopathy: a new working hypothesis. *Graefes Arch Clin Exp Ophthalmol* 1986;224:321–4.
- [107] Marmor MF. New hypothesis on the pathogenesis and treatment of serous retinal detachment. *Graefes Arch Clin Exp Ophthalmol* 1988;226:548–52.
- [108] Yao X-Y, Marmor MF. Induction of serous retinal detachment in rabbit eyes by pigment epithelial and choriocapillary injury. *Arch Ophthalmol* 1992;110:541–6.
- [109] Behrendt T. Central serous retinopathy (CSR). In: Brockhurst RJ, Boruchoff SA, Hutchinson BT, editors. *Controversy in ophthalmology*. Philadelphia: WB Saunders; 1977. p. 698–705.
- [110] Negi A, Marmor MF. Experimental serous retinal detachment and focal pigment epithelial damage. *Arch Ophthalmol* 1984;102:445–9.
- [111] Piccolino FC. Central serous chorioretinopathy: some considerations on the pathogenesis. *Ophthalmologica* 1981;182:204–10.
- [112] Gross M, Froom P, Tendler Y, et al. Central serous retinopathy (choroidopathy) in pilots. *Aviat Space Environ Med* 1986;57:457–8.
- [113] Lipowski ZJ, Kiriakos RZ. Psychosomatic aspects of central serous retinopathy; a review and case report. *Psychosomatics* 1971;12:398–401.
- [114] Werry H, Arends C. Untersuchung zur Objektivierung von Persönlichkeitsmerkmalen bei Patienten mit Retinopathia centralis serosa. *Klin Monatsbl Augenheilkd* 1978;172:363–70.
- [115] Yannuzzi LA. Type-A behavior and central serous chorioretinopathy. *Retina* 1987;7:111–30.
- [116] Sie-Boen-Lian. The etiological agent of serous central chorioretinitis. *Ophthalmologica* 1964;148:263–70.
- [117] Watanabe S, Ohtsuki K. Experimental serous choroidopathy. *Acta Soc Ophthalmol Jpn* 1979;83:808–17.
- [118] Yoshioka H. The etiology of central serous chorioretinopathy. *Acta Soc Ophthalmol Jpn* 1991;95:1181–95.
- [119] Yoshioka H, Katsume Y, Akune H. Experimental central serous chorioretinopathy in monkey eyes: fluorescein angiographic findings. *Ophthalmologica* 1982;185:168–78.
- [120] Bouzas EA, Scott MH, Mastorakos S, et al. Central serous chorioretinopathy in endogenous hypercortisolism. *Arch Ophthalmol* 1993;111:1229–33.
- [121] Wakakura M, Ishikawa S. An evaluation of corticosteroid treatment for central serous chorioretinopathy. *Jpn J Clin Ophthalmol* 1980;34:123–9.
- [122] Wakakura M, Ishikawa S. Central serous chorioretinopathy complicating systemic corticosteroid therapy. *Br J Ophthalmol* 1984;68:329–31.
- [123] Blair NP, Brockhurst RJ, Lee W. Central serous choroidopathy in the Hallermann–Streif syndrome. *Ann Ophthalmol* 1981;13:987–90.
- [124] Browning DJ. Nadolol in the treatment of central serous retinopathy. *Am J Ophthalmol* 1993;116:770–1.
- [125] Annesley Jr WH, Tasman WS, Le Win DP, et al. Retrospective evaluation of photocoagulation for idiopathic central serous chorioretinopathy. *Mod Probl Ophthalmol* 1974;12:234–8.
- [126] Gass JDM. Options in the treatment of macular diseases. *Trans Ophthalmol Soc UK* 1972;92:449–68.
- [127] Gass JDM. Photocoagulation of macular lesions. *Trans Am Acad Ophthalmol Otolaryngol* 1971;75:580–608.
- [128] Gass JDM. Ruby laser and xenon photocoagulation of macular lesions. *Concilium Ophthalmologicum XXI*, Mexico, 1970. *Acta Ophthalmol* 1971;1:485–506.
- [129] Gass JDM, editor. *Fluorescein angiography; proceedings of the international symposium on fluorescein angiography (ISFA)*, Tokyo, 1972. Tokyo: Igaku Shoin; 1974.
- [130] Heydenreich A, Lemke L, Jütte A. Lichtkoagulation bei Chorioretinitis centralis serosa. *Klin Monatsbl Augenheilkd* 1974;165:578–84.

- [131] Hirose I. Therapy of central serous retinopathy. *Folia Ophthalmol Jpn* 1969;20:1003-34.
- [132] Landers III MB, Shaw Jr HE, Anderson Jr WB, et al. Argon laser treatment of central serous chorioretinopathy. *Ann Ophthalmol* 1977;9:1567-72.
- [133] L'Esperance Jr FA. Argon and ruby laser photocoagulation of disciform macular disease. *Trans Am Acad Ophthalmol Otolaryngol* 1971;75:609-25.
- [134] Makabe R. Krypton- und Argonlaserkoagulation bei Chorioretinitis centralis serosa. *Klin Monatsbl Augenheilkd* 1987;190:489-90.
- [135] Maumenee AE. Symposium: macular diseases. Pathogenesis. *Trans Am Acad Ophthalmol Otolaryngol* 1965;69:691-9.
- [136] Novak MA, Singerman LJ, Rice TA. Krypton and argon laser photocoagulation for central serous chorioretinopathy. *Retina* 1987;7:162-9.
- [137] Peabody RR, Zweng HC, Little HL. Treatment of persistent central serous retinopathy. *Arch Ophthalmol* 1968;79:166-9.
- [138] Piccolino FC. Laser treatment of eccentric leaks in central serous chorioretinopathy resulting in disappearance of untreated juxtafoveal leaks. *Retina* 1992;12:96-102.
- [139] Robertson DM, Ilstrup D. Direct, indirect, and sham laser photocoagulation in the management of central serous chorioretinopathy. *Am J Ophthalmol* 1983;95:457-66.
- [140] Shimizu K, Tobari I. Fluorography and photocoagulation of central serous retinopathy. *Jpn J Clin Ophthalmol* 1969;23:438-50.
- [141] Slusher MM. Krypton red laser photocoagulation in selected cases of central serous chorioretinopathy. *Retina* 1986;6:81-4.
- [142] Spalter HF. Photocoagulation of central serous retinopathy; a preliminary report. *Arch Ophthalmol* 1968;79:247-53.
- [143] Theodossiadis G, Tongos D. Treatment of central serous retinopathy; a comparative study with and without light coagulation. *Ophthalmologica* 1974;169:416-31.
- [144] Watzke RC, Burton TC, Leaverton P. Ruby laser photocoagulation therapy of central serous retinopathy; a preliminary report. *Mod Probl Ophthalmol* 1974;12:242-6.
- [145] Watzke RC, Burton TC, Woolson RF. Direct and indirect laser photocoagulation of central serous choroidopathy. *Am J Ophthalmol* 1979;88:914-8.
- [146] Wessing A. Zur Pathogenese und Therapie der sogenannten Retinitis centralis serosa. *Ophthalmologica* 1967;153:259-76.
- [147] Wessing A. Central serous retinopathy and related lesions. *Mod Probl Ophthalmol* 1971;9:148-51.
- [148] Wessing A. Changing concept of central serous retinopathy and its treatment. *Trans Am Acad Ophthalmol Otolaryngol* 1973;77:OP275-OP280.
- [149] Zweng HC, Little HL, Peabody RR. Laser photocoagulation and retinal angiography: with current concepts in retinal and choroidal diseases. St. Louis: CV Mosby; 1969. p. 79.
- [150] Schatz H, Yannuzzi LA, Gitter KA. Subretinal neovascularization following argon laser photocoagulation treatment for central serous chorioretinopathy: complication or misdiagnosis? *Trans Am Acad Ophthalmol Otolaryngol* 1977;83:OP893-OP906.
- [151] François J, De Laey JJ, Cambie E, et al. Neovascularization after argon laser photocoagulation of macular lesions. *Am J Ophthalmol* 1975;79:206-10.
- [152] Gass JDM, editor. Fluorescein angiography; proceedings of the international symposium on fluorescein angiography (ISFA); 1972. Tokyo: Igaku Shoin; 1974.
- [153] Reibaldi M, Cardascia N, Longo A, et al. Standard-fluence versus low-fluence photodynamic therapy in chronic central serous chorioretinopathy: a nonrandomized clinical trial. *Am J Ophthalmol* 2010;149(307-315):e2.
- [154] Inoue R, Sawa M, Tsujikawa M, et al. Association between the efficacy of photodynamic therapy and indocyanine green angiography findings for central serous chorioretinopathy. *Am J Ophthalmol* 2010;149(441-446):e1-e2.
- [155] Chan WM, Lai TY, Lai RY, et al. Safety enhanced photodynamic therapy for chronic central serous chorioretinopathy: one-year results of a prospective study. *Retina* 2008;28:85-93.
- [156] Ober MD, Yannuzzi LA, Do DV, et al. Photodynamic therapy for focal retinal pigment epithelial leaks secondary to central serous chorioretinopathy. *Ophthalmology* 2005;112:2088-94.
- [157] Yannuzzi LA, Slakter JS, Gross NE, et al. Indocyanine green angiography-guided photodynamic therapy for treatment of chronic central serous chorioretinopathy: a pilot study. *Retina* 2003;23:288-98.
- [158] Tarantola RM, Law JC, Recchia FM, et al. Photodynamic therapy as treatment of chronic idiopathic central serous chorioretinopathy. *Lasers Surg Med* 2008;40:671-5.
- [159] Nielsen JS, Weinreb RN, Yannuzzi L, et al. Mifepristone treatment of chronic central serous chorioretinopathy. *Retina* 2007;27:119-22.
- [160] Bressler NM, Bressler SB, Gragoudas ES. Clinical characteristics of choroidal neovascular membranes. *Arch Ophthalmol* 1987;105:209-13.
- [161] Ferris III FL. Senile macular degeneration: Review of epidemiologic features. *Am J Epidemiol* 1983;118:132-51.
- [162] Ferris III FL, Fine SL, Hyman L. Age-related macular degeneration and blindness due to neovascular maculopathy. *Arch Ophthalmol* 1984;102:1640-2.
- [163] Ganley JP, Roberts J. Eye conditions and related need for medical care among persons 1-74 years of age United States, 1971-72. Washington, DC: U.S. Government Printing Office; 1983. Vital and Health Statistics, series 11 no 228, DHHS publication no (PHS) 83-1678
- [164] Hyman LG. Senile macular degeneration: an epidemiologic case control study (thesis). Baltimore: Johns Hopkins University; 1981.
- [165] Kahn HA, Leibowitz HM, Ganley JP, et al. The Framingham Eye Study. I. Outline and major prevalence findings. *Am J Epidemiol* 1977;106:17-32.
- [166] Kahn HA, Leibowitz HM, Ganley JP, et al. The Framingham Eye Study. II. Association of ophthalmic pathology with single variables previously measured in the Framingham Heart Study. *Am J Epidemiol* 1977;106:33-41.
- [167] Kahn HA, Moorehead HB. Statistics on blindness in the model reporting area, 1969-1970. Washington, DC: National Institutes of Health; 1973. DHEW publication (NIH) 73-427
- [168] Kini MM, Leibowitz HM, Colton T, et al. Prevalence of senile cataract, diabetic retinopathy, senile macular degeneration, and open-angle glaucoma in the Framingham Eye Study. *Am J Ophthalmol* 1978;85:28-34.
- [169] Klein BE, Klein R. Cataracts and macular degeneration in older Americans. *Arch Ophthalmol* 1982;100:571-3. [correction p. 1333]
- [170] Leibowitz HM, Krueger DE, Maunder LR, et al. The Framingham Eye Study monograph: an ophthalmological and epidemiological study of cataract, glaucoma, diabetic retinopathy, macular degeneration, and visual acuity in a general population of 2631 adults, 1973-1975. *Surv Ophthalmol* 1980;24:335-610.
- [171] MacDonald AE. Causes of blindness in Canada: an analysis of 24 605 cases registered with the Canadian National Institute for the Blind. *Can Med Assoc J* 1965;92:264-79.
- [172] Martinez GS, Campbell AJ, Reinken J, et al. Prevalence of ocular disease in a population study of subjects 65 years old and older. *Am J Ophthalmol* 1982;94:181-9.

- [173] McGuinness R. The Framingham Eye Study. *Am J Ophthalmol* 1978;86:852–3.
- [174] Sorsby A. The incidence and causes of blindness in England and Wales 1948–1962. London: Her Majesty's Stationery Office; 1966. Reports in public health and medical subjects, no.114
- [175] Wessing A. Photocoagulation in the treatment of macular lesions. *Concilium Ophthalmologicum XXI*, 1970, Mexico. *Acta* 1971;1:507–12.
- [176] Donders FC. Beiträge zur pathologischen Anatomie des Auges. *Albrecht von Graefes Arch Ophthalmol* 1855;1:106–18.
- [177] Doyne RW. Peculiar condition of choroiditis occurring in several members of the same family. *Trans Ophthalmol Soc UK* 1899;19:71
- [178] Forni S, Babel J. Etude clinique et histologique de la malattia leventinese; affection appartenant au groupe des dégénérescences hyalines du pôle postérieur. *Ophthalmologica* 1962;143:313–22.
- [179] Holthouse EH, Batten RD. A case of superficial choroidoretinitis of peculiar form and doubtful causation. *Trans Ophthalmol Soc UK* 1897;17:62–3.
- [180] Hutchinson J. Symmetrical central choroido-retinal disease occurring in senile persons. *R Lond Ophthalmic Hosp Rep* 1876;8:231–44.
- [181] Junius P, Kuhnt H. Die scheibenformige Entartung der Netzhautmitte (Degeneratio maculae luteae disciformis). Berlin: Karger; 1926.
- [182] Oeller JN. In: Bergmann J, editor. Atlas seltener ophthalmoskopischer Befunde Zugleich Ergänzungstafeln zu dem Atlas der Ophthalmoskopie, Section C, Tab XII. Wiesbaden 1900–1924.
- [183] Ormond AW. Four cases of disc-like degeneration of the macula lutea. *Guys Hosp Rep* 1927;77:16–21.
- [184] Seddon JM, Chen CA. The epidemiology of age-related macular degeneration. *Int Ophthalmol Clin* 2004;44:17–39.
- [185] Gregor Z, Joffe L. Senile macular changes in the black African. *Br J Ophthalmol* 1978;62:547–50.
- [186] Bonnet M. Beitrag zur Klinik der Maculadrusen. *Klin Monatsbl Augenheilkd* 1973;162:326–31.
- [187] Deutman AF, Rümke AML. Reticular dystrophy of the retinal pigment epithelium; dystrophia reticularis laminae pigmentosa retinae of H. Sjögren. *Arch Ophthalmol* 1969;82:4–9.
- [188] Farkas TG. Drusen of the retinal pigment epithelium. *Surv Ophthalmol* 1971;16:75–87.
- [189] Farkas TG, Krill AE, Sylvester VM, et al. Familial and secondary drusen: Histologic and functional correlations. *Trans Am Acad Ophthalmol Otolaryngol* 1971;75:333–43.
- [190] Farkas TG, Sylvester V, Archer D. The ultrastructure of drusen. *Am J Ophthalmol*. 1971;71:1196–205.
- [191] Friedman E, Smith TR. Senile changes of the choriocapillaris of the posterior pole. *Trans Am Acad Ophthalmol Otolaryngol* 1965;69:652–61.
- [192] Gass JDM. Choroidal neovascular membranes—their visualization and treatment. *Trans Am Acad Ophthalmol Otolaryngol* 1973;77:OP310–OP320.
- [193] Gold D, Friedman A, Wise GN. Predisciform senile macular degeneration. *Am J Ophthalmol* 1973;76:763–8.
- [194] Klein R, Klein BEK, Linton KLP. Prevalence of age-related maculopathy. The Beaver Dam Eye Study. *Ophthalmology* 1992;99:933–43.
- [195] Pauleikhoff D, Barondes MJ, Minassian D, et al. Drusen as risk factors in age-related macular disease. *Am J Ophthalmol* 1990;109:38–43.
- [196] Pearce WG. Doyne's honeycomb retinal degeneration; clinical and genetic features. *Br J Ophthalmol* 1968;52:73–8.
- [197] Sarkis SH. Drusen and their relationship to senile macular degeneration. *Aust J Ophthalmol* 1980;8:117–30.
- [198] Tanenbaum HL, Eshagian M. Senile disciform degeneration of the macula: The other eye—a fluorescein angiographic study. *Can J Ophthalmol* 1972;7:280–4.
- [199] Barondes M, Pauleikhoff D, Chisholm IC, et al. Bilaterality of drusen. *Br J Ophthalmol* 1990;74:180–2.
- [200] Gass JDM. Pathogenesis of disciform detachment of the neuroepithelium. III. Senile disciform macular degeneration. *Am J Ophthalmol* 1967;63:617–44.
- [201] Alexander MF, Maguire MG, Lietman TM, et al. Assessment of visual function in patients with age-related macular degeneration and low visual acuity. *Arch Ophthalmol* 1988;106:1543–7.
- [202] Eisner A, Stoumbos VD, Klein ML, et al. Relations between fundus appearance and function; eyes whose fellow eye has exudative age-related macular degeneration. *Invest Ophthalmol Vis Sci* 1991;32:8–20.
- [203] Kleiner RC, Enger C, Alexander MF, et al. Contrast sensitivity in age-related macular degeneration. *Arch Ophthalmol* 1988;106:55–7.
- [204] Lennerstrand G, Ahlström CO. Contrast sensitivity in macular degeneration and the relation to subjective visual impairment. *Acta Ophthalmol* 1989;67:225–33.
- [205] Macular Photocoagulation Study Group. Laser photocoagulation of subfoveal neovascular lesions in age-related macular degeneration; results of a randomized clinical trial. *Arch Ophthalmol* 1991;109:1220–31.
- [206] Macular Photocoagulation Study Group. Subfoveal neovascular lesions in age-related macular degeneration; guidelines for evaluation and treatment in the Macular Photocoagulation Study. *Arch Ophthalmol* 1991;109:1242–57.
- [207] Sunness JS, Johnson MA, Massof RW, et al. Retinal sensitivity over drusen and nondrusen areas; a study using fundus perimetry. *Arch Ophthalmol* 1988;106:1081–4.
- [208] Sunness JS, Massof RW, Johnson MA, et al. Diminished foveal sensitivity may predict the development of advanced age-related macular degeneration. *Ophthalmology* 1989;96:375–81.
- [209] Fishman GA, Carrasco C, Fishman M. The electro-oculogram in diffuse (familial) drusen. *Arch Ophthalmol* 1976;94:231–3.
- [210] Gass JDM. Drusen and disciform macular detachment and degeneration. *Arch Ophthalmol* 1973;90:206–17.
- [211] Marcus M, Merin S, Wolf M, et al. Electrophysiologic tests in assessment of senile macular degeneration. *Ann Ophthalmol* 1983;15:235–8.
- [212] Jampol LM, Tielsch J. Race, macular degeneration, and the macular photocoagulation study. *Arch Ophthalmol* 1992;110:1699–700.
- [213] Bastek JV, Siegel EB, Straatsma BR, et al. Chorioretinal juncture; pigmentary patterns of the peripheral fundus. *Ophthalmology* 1982;89:1455–63.
- [214] Daiker B. Lineare Degenerationen des peripheren retinalen Pigmentepithels; Eine pathologisch-anatomische Studie. *Albrecht von Graefes Arch Klin Exp Ophthalmol* 1973;186:1–12.
- [215] Deutman AF, Jansen LMAA. Dominantly inherited drusen of Bruch's membrane. *Br J Ophthalmol* 1970;54:373–82.
- [216] Gass JDM. Drusen and disciform macular detachment and degeneration. *Trans Am Ophthalmol Soc* 1972;70:409–36.
- [217] Humphrey WT, Carlson RE, Valone Jr JA. Senile reticular pigmentary degeneration. *Am J Ophthalmol* 1984;98:717–22.
- [218] Lewis H, Straatsma BR, Foos RY, et al. Reticular degeneration of the pigment epithelium. *Ophthalmology* 1985;92:1485–95.
- [219] Bressler NM, Bressler SB, Seddon JM, et al. Drusen characteristics in patients with exudative versus nonexudative age-related macular degeneration. *Retina* 1988;8:109–14.
- [220] Bressler SB, Maguire MG, Bressler NM, et al. Relationship of



- drusen and abnormalities of the retinal pigment epithelium to the prognosis of neovascular macular degeneration. *Arch Ophthalmol* 1990;108:1442-7.
- [221] Bird AC. Bruch's membrane change with age. *Br J Ophthalmol* 1992;76:166-8.
- [222] Pauleikhoff D, Chen JC, Chisholm IH, et al. Choroidal perfusion abnormality with age-related Bruch's membrane change. *Am J Ophthalmol* 1990;109:211-7.
- [223] Piguet B, Palmvang IB, Chisholm IH, et al. Evolution of age-related macular degeneration with choroidal perfusion abnormality. *Am J Ophthalmol* 1992;113:657-63.
- [224] Scheider A, Neuhauser L. Fluorescence characteristics of drusen during indocyanine-green angiography and their possible correlation with choroidal perfusion. *Ger J Ophthalmol* 1992;1:328-34.
- [225] Sheraidah G, Steinmetz R, Maguire J, et al. Correlation between lipids extracted from Bruch's membrane and age. *Ophthalmology* 1993;100:47-51.
- [226] Pauleikhoff D, Harper CA, Marshall J, et al. Aging changes in Bruch's membrane; a histochemical and morphologic study. *Ophthalmology* 1990;97:171-8.
- [227] Burns RP, Feeney-Burns L. Clinico-morphologic correlations of drusen of Bruch's membrane. *Trans Am Ophthalmol Soc* 1980;78:206-25.
- [228] Coffey AJH, Brownstein S. The prevalence of macular drusen in postmortem eyes. *Am J Ophthalmol* 1986;102:164-71.
- [229] Fenney-Burns L, Burns RP, Gao CL. Age-related macular changes in humans over 90 years old. *Am J Ophthalmol* 1990;109:265-78.
- [230] Frank RN, Green WR, Pollack IP. Senile macular degeneration; clinicopathologic correlations of a case in the predisciform stage. *Am J Ophthalmol* 1973;75:587-94.
- [231] Green WR, Key III SN. Senile macular degeneration: histopathologic study. *Trans Am Ophthalmol Soc* 1977;75:180-254.
- [232] Hogan MJ. Bruch's membrane and disease of the macula; role of elastic tissue and collagen. *Trans Ophthalmol Soc UK* 1967;87:113-61.
- [233] Sarks SH. Ageing and degeneration in the macular region: a clinico-pathological study. *Br J Ophthalmol* 1976;60:324-41.
- [234] Fenney-Burns L, Gao CL, Tidwell M. Lysosomal enzyme cytochemistry of human RPE, Bruch's membrane and drusen. *Invest Ophthalmol Vis Sci* 1987;28:1138-47.
- [235] Ishibashi T, Patterson R, Ohnishi Y, et al. Formation of drusen in the human eye. *Am J Ophthalmol* 1986;101:342-53.
- [236] Ishibashi T, Sorgente N, Patterson R, et al. Pathogenesis of drusen in the primate. *Invest Ophthalmol Vis Sci* 1986;27:184-93.
- [237] Newsome DA, Hewitt AT, Huh W, et al. Detection of specific extracellular matrix molecules in drusen, Bruch's membrane, and ciliary body. *Am J Ophthalmol* 1987;104:373-81.
- [238] Hageman GS, Luthert PJ, Victor Chong NH, et al. An integrated hypothesis that considers drusen as biomarkers of immune-mediated processes at the RPE-Bruch's membrane interface in aging and age-related macular degeneration. *Prog Retin Eye Res* 2001;20:705-32.
- [239] Russell SR, Mullins RF, Schneider BL, et al. Location, substructure, and composition of basal laminar drusen compared with drusen associated with aging and age-related macular degeneration. *Am J Ophthalmol* 2000;129:205-14.
- [240] Duvall J, Tso MOM. Cellular mechanisms of resolution of drusen after laser coagulation; an experimental study. *Arch Ophthalmol* 1985;103:694-703.
- [241] Bressler NM, Silva JC, Bressler SB, et al. Clinicopathologic correlation of drusen and retinal pigment epithelial abnormalities in age-related macular degeneration. *Retina* 1994;14:130-42.
- [242] Green WR, Enger C. Age-related macular degeneration histopathologic studies. *Ophthalmology* 1993;100:1519-35.
- [243] van der Schaft TL, Mooy CM, de Bruijn WC, et al. Immunohistochemical light and electron microscopy of basal laminar deposit. *Graefes Arch Clin Exp Ophthalmol* 1994;32:40-6.
- [244] Loeffler KU, Lee WR. Is basal laminar deposit unique for age-related macular degeneration? [*Arch Ophthalmol* 1992; 110:15-16.
- [245] van der Schaft TL, de Bruijn WC, Mooy CM, et al. Is basal laminar deposit unique for age-related macular degeneration? *Arch Ophthalmol* 1991;109:420-5.
- [246] Hogan MJ. Electron microscopy of Bruch's membrane. *Trans Am Acad Ophthalmol Otolaryngol* 1965;69:683-90.
- [247] Hoshino M, Mizuno K, Ichikawa H. Aging alterations of retina and choroid of Japanese: Light microscopic study of macular region of 176 eyes. *Jpn J Ophthalmol* 1984;28:89-102.
- [248] Kornzweig AL. Changes in the choriocapillaris associated with senile macular degeneration. *Ann Ophthalmol* 1977;9:753-64.
- [249] Penfold P, Killingsworth M, Sarks S. An ultrastructural study of the role of leucocytes and fibroblasts in the breakdown of Bruch's membrane. *Aust J Ophthalmol* 1984;12:23-31.
- [250] Sarks SH. Senile choroidal sclerosis. *Br J Ophthalmol*. 1973;57:98-109.
- [251] Sarks SH. New vessel formation beneath the retinal pigment epithelium in senile eyes. *Br J Ophthalmol* 1973;57:951-65.
- [252] Sarks SH. Drusen patterns predisposing to geographic atrophy of the retinal pigment epithelium. *Aust J Ophthalmol* 1982;10:91-7.
- [253] Small ML, Green WR, Alpar JJ, et al. Senile macular degeneration; a clinicopathologic correlation of two cases with neovascularization beneath the retinal pigment epithelium. *Arch Ophthalmol* 1976;94:601-7.
- [254] Killingsworth MC, Sarks JP, Sarks SH. Macrophages related to Bruch's membrane in age-related macular degeneration. *Eye* 1990;4:613-21.
- [255] Friedman E, Smith TR, Kuwabara T. Senile choroidal vascular patterns and drusen. *Arch Ophthalmol* 1963;69:220-30.
- [256] Inhoffen W, Nüssgens Z. Rheological studies on patients with posterior subretinal neovascularization and exudative age-related macular degeneration. *Graefes Arch Clin Exp Ophthalmol* 1990;228:316-20.
- [257] Lewis H, Straatsma BR, Foos RY. Chorioretinal juncture; multiple extramacular drusen. *Ophthalmology* 1986;93:1098-112.
- [258] Fenney L. Lipofuscin and melanin of human retinal pigment epithelium; fluorescence, enzyme cytochemical, and ultrastructural studies. *Invest Ophthalmol Vis Sci* 1978;17:583-600.
- [259] Friedman E, Van Buskirk EM, Fineberg E, et al. Pathogenesis of senile disciform degeneration of the macula. *Concilium Ophthalmologicum XXI, Mexico, 1970. Acta* 1971;1:454-8.
- [260] Gragoudas ES, Chandra SR, Friedman E, et al. Disciform degeneration of the macula. II. Pathogenesis. *Arch Ophthalmol*. 1976;94:755-7.
- [261] Potts AM. An hypothesis on macular disease. *Trans Am Acad Ophthalmol Otolaryngol* 1966;70:1058-62.
- [262] van der Schaft TL, Mooy CM, de Bruijn WC, et al. Histologic features of the early stages of age-related macular degeneration. *Ophthalmology* 1992;99:278-86.
- [263] Verhoeff FH, Grossman HP. Pathogenesis of disciform degeneration of the macula. *Arch Ophthalmol* 1937;18:561-85.
- [264] Zscheile FP. Disciform lesion of the macula simulating a melanoma. *Arch Ophthalmol* 1964;71:505-7.
- [265] Ishibashi Y, Watanabe R, Hommura S, et al. Endogenous

- Nocardia asteroides* endophthalmitis in a patient with systemic lupus erythematosus. *Br J Ophthalmol* 1990;74:433–6.
- [266] Holz FG, Sheraidah G, Pauleikhoff D, et al. Analysis of lipid deposits extracted from human macular and peripheral Bruch's membrane. *Arch Ophthalmol* 1994;112:402–6.
- [267] Anderson DH, Talaga KC, Rivest AJ, et al. Characterization of beta amyloid assemblies in drusen: the deposits associated with aging and age-related macular degeneration. *Exp Eye Res* 2004;78:243–56.
- [268] Mullins RF, Russell SR, Anderson DH, et al. Drusen associated with aging and age-related macular degeneration contain proteins common to extracellular deposits associated with atherosclerosis, elastosis, amyloidosis, and dense deposit disease. *FASEB J* 2000;14:835–46.
- [269] Hartnett ME, Weiter JJ, Garsd A, et al. Classification of retinal pigment epithelial detachments associated with drusen. *Graefes Arch Clin Exp Ophthalmol* 1992;230:11–19.
- [270] Chuang EL, Bird AC. The pathogenesis of tears of the retinal pigment epithelium. *Am J Ophthalmol* 1988;105:285–90.
- [271] Bird AC, Marshall J. Retinal pigment epithelial detachments in the elderly. *Trans Ophthalmol Soc UK* 1986;105:674–82.
- [272] Meyers SM, Zachary AA. Monozygotic twins with age-related macular degeneration. *Arch Ophthalmol* 1988;106:651–3.
- [273] Tabatabay CA, D'Amico DJ, Hanninen LA, et al. Experimental drusen formation induced by intravitreal aminoglycoside injection. *Arch Ophthalmol* 1987;105:826–30.
- [274] El Baba F, Green WR, Fleischmann J, et al. Clinicopathologic correlation of lipidization and detachment of the retinal pigment epithelium. *Am J Ophthalmol* 1986;101:576–83.
- [275] Fenney-Burns L, Malinow MR, Klein ML, et al. Maculopathy in cynomolgus monkeys; a correlated fluorescein angiographic and ultrastructural study. *Arch Ophthalmol* 1981;99:664–72.
- [276] Fine BS. Lipoidal degeneration of the retinal pigment epithelium. *Am J Ophthalmol* 1981;91:469–73.
- [277] Baudouin C, Peyman GA, Fredj-Reygrobellet D, et al. Immunohistological study of subretinal membranes in age-related macular degeneration. *Jpn J Ophthalmol* 1992;36:443–51.
- [278] Bressler NM, Frost LA, Bressler SB, et al. Natural course of poorly defined choroidal neovascularization associated with macular degeneration. *Arch Ophthalmol* 1988;106:1537–42.
- [279] Bressler SB, Silva JC, Bressler NM, et al. Clinicopathologic correlation of occult choroidal neovascularization in age-related macular degeneration. *Arch Ophthalmol* 1992;110:827–32.
- [280] Das A, Puklin JE, Frank RN, et al. Ultrastructural immunocytochemistry of subretinal neovascular membranes in age-related macular degeneration. *Ophthalmology* 1992;99:1368–76.
- [281] Frederick Jr AR, Morley MG, Topping TM, et al. The appearance of stippled retinal pigment epithelial detachments; a sign of occult neovascularization in age-related macular degeneration. *Retina* 1993;13:3–7.
- [282] Gass JDM. Biomicroscopic and histopathologic considerations regarding the feasibility of surgical excision of subfoveal neovascular membranes. *Am J Ophthalmol* 1994;118:285–98.
- [283] Gass JDM. Pathogenesis of disciform detachment of the neuroepithelium. IV. Fluorescein angiographic study of senile disciform macular degeneration. *Am J Ophthalmol* 1967;63:645–59.
- [284] Gass JDM. Present indications and future promise of the krypton laser. In: March WF, editor. *Ophthalmic lasers: current clinical uses*. Thorofare, NJ: Charles B. Slack; 1984. p. 133.
- [285] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 3rd ed. St. Louis: CV Mosby; 1987. p. 19–35, 789.
- [286] Gehrs KM, Heriot WJ, de Juan Jr E. Transmission electron microscopic study of a subretinal choroidal neovascular membrane due to age-related macular degeneration. *Arch Ophthalmol* 1992;110:833–7.
- [287] Green WR. Clinicopathologic studies of treated choroidal neovascular membranes; a review and report of two cases. *Retina* 1991;11:328–56.
- [288] Green WR, McDonnell PJ, Yeo JH. Pathologic features of senile macular degeneration. *Ophthalmology* 1985;92:615–27.
- [289] Grossniklaus HE, Martinez JA, Brown VB, et al. Immunohistochemical and histochemical properties of surgically excised subretinal neovascular membranes in age-related macular degeneration. *Am J Ophthalmol* 1992;114:464–72.
- [290] Lopez PF, Grossniklaus HE, Lambert HM, et al. Pathologic features of surgically excised subretinal neovascular membranes in age-related macular degeneration. *Am J Ophthalmol* 1991;112:647–56.
- [291] Maumenee AE. Serous and hemorrhagic disciform detachment of the macula. *Trans Pacif Cst Oto-Ophthalmol Soc* 1959;40:139–60.
- [292] Soubrane G, Coscas G, et al. Occult subretinal new vessels in age-related macular degeneration. Natural History and early laser treatment. *Ophthalmology* 1990;97(5):649–57.
- [293] Teeters VW, Bird AC. A clinical study of the vascularity of senile disciform macular degeneration. *Am J Ophthalmol* 1973;75:53–65.
- [294] Teeters VW, Bird AC. The development of neovascularization of senile disciform macular degeneration. *Am J Ophthalmol* 1973;76:1–18.
- [295] Gass JDM. Serous retinal pigment epithelial detachment with a notch; a sign of occult choroidal neovascularization. *Retina* 1984;4:205–20.
- [296] Patel BCK, Barondes M, Hamilton AMP. Acute tear of the retinal pigment epithelium. *Int Ophthalmol* 1992;16:7–13.
- [297] Kies JC, Bird AC. Juxtapapillary choroidal neovascularization in older patients. *Am J Ophthalmol* 1988;105:11–19.
- [298] Dastgheib K, Green WR. Granulomatous reaction to Bruch's membrane in age-related macular degeneration. *Arch Ophthalmol* 1994;112:813–8.
- [299] Gass JDM. Pathogenesis of macular detachment and degeneration. *Ophthalmic Forum* 1984;2:8–17.
- [300] Gass JDM. Retinal pigment epithelial rip during krypton red laser photocoagulation. *Am J Ophthalmol* 1984;98:700–6.
- [301] Dobi ET, Puliafito CA, Destro M. A new model of experimental choroidal neovascularization in the rat. *Arch Ophthalmol* 1989;107:264–9.
- [302] El Dirini AA, Ogden TE, Ryan SJ. Subretinal endophotocoagulation; a new model of subretinal neovascularization in the rabbit. *Retina* 1991;11:244–9.
- [303] Uyama M. Choroidal neovascularization, experimental and clinical study. *Acta Soc Ophthalmol Jpn* 1991;95:1145–80.
- [304] Zhu Z-R, Goodnight R, Sorgente N, et al. Experimental subretinal neovascularization in the rabbit. *Graefes Arch Clin Exp Ophthalmol* 1989;27:257–62.
- [305] Zhu Z-R, Goodnight R, Sorgente N, et al. Morphologic observations of retinal pigment epithelial proliferation and neovascularization in the rabbit. *Retina* 1989;9:319–27.
- [306] Berkow JW. Subretinal neovascularization in senile macular degeneration. *Am J Ophthalmol* 1984;97:143–7.
- [307] Blair CJ. Geographic atrophy of the retinal pigment epithelium; a manifestation of senile macular degeneration. *Arch Ophthalmol* 1975;93:19–25.
- [308] Bressler SB, Bressler NM, Fine SL, et al. Natural course of choroidal neovascular membranes within the foveal avascular zone in senile macular degeneration. *Am J Ophthalmol*

- 1982;93:157-63.
- [309] Bressler SB, Bressler NM, Fine SL, et al. Subfoveal neovascular membranes in senile macular degeneration; relationship between membrane size and visual prognosis. *Retina* 1983;3:7-11.
- [310] Chandra SR, Gragoudas ES, Friedman E, et al. Natural history of disciform degeneration of the macula. *Am J Ophthalmol* 1974;78:579-82.
- [311] Gregor Z, Bird AC, Chisholm IH. Senile disciform macular degeneration in the second eye. *Br J Ophthalmol* 1977;61:141-7.
- [312] Hyman LG, Lilienfeld AM, Ferris III FL, et al. Senile macular degeneration: a case-control study. *Am J Epidemiol* 1983;118:213-27.
- [313] Klein ML, Jorizzo PA, Watzke RC. Growth features of choroidal neovascular membranes in age-related macular degeneration. *Ophthalmology* 1989;96:1416-21.
- [314] Smiddy WE, Fine SL. Prognosis of patients with bilateral macular drusen. *Ophthalmology* 1984;91:271-7.
- [315] Strahman ER, Fine SL, Hillis A. The second eye of patients with senile macular degeneration. *Arch Ophthalmol* 1983;101:1191-3.
- [316] Vander JF, Morgan CM, Schatz H. Growth rate of subretinal neovascularization in age-related macular degeneration. *Ophthalmology* 1989;96:1422-9.
- [317] Willerson Jr D, Aabert TM. Senile macular degeneration and geographic atrophy of the retinal pigment epithelium. *Br J Ophthalmol* 1978;62:551-3.
- [318] Wiznia RA. Natural history of senile disciform macular dystrophy. *Ophthalmology* 1979;86:1620-8.
- [319] Bird AC. Treatment of pigment epithelial detachments in the elderly. *Trans Ophthalmol Soc NZ* 1983;35:73-5.
- [320] Braunstein RA, Gass JDM. Serous detachments of the retinal pigment epithelium in patients with senile macular disease. *Am J Ophthalmol* 1979;88:652-60.
- [321] Ho PC, Namperumalsamy P, Pruett RC. Photocoagulation of serous detachments of the retinal pigment epithelium in patients with senile macular disease. *Ann Ophthalmol* 1984;16:213-8.
- [322] The Moorfields Macular Study Group. Retinal pigment epithelial detachments in the elderly: a controlled trial of argon laser photocoagulation. *Br J Ophthalmol* 1982;66:1-16.
- [323] Tornambe PE. Treatment of retinal pigment epithelial detachments. *Ann Ophthalmol* 1984;16:884-8.
- [324] Versteeg-Tijmes NT, de Jong PTVM, Bos PJM, et al. Argon laser treatment of pigment epithelial detachments and of subretinal neovascular membranes in Junius-Kuhnt's senile disciform macular degeneration; a prospective, randomized study. *Graefes Arch Clin Exp Ophthalmol* 1982;218:271-4.
- [325] Chamberlin JA, Bressler NM, Bressler SB, et al. The use of fundus photographs and fluorescein angiograms in the identification and treatment of choroidal neovascularization in the Macular Photocoagulation Study. *Ophthalmology* 1989;96:1526-34.
- [326] Boldt HC, Folk JC. Slow leakage from the retinal pigment epithelium (ooze) in age-related macular degeneration. *Retina* 1990;10:244-50.
- [327] Bressler NM, Bressler SB, Alexander J, et al. Loculated fluid; a previously undescribed fluorescein angiographic finding in choroidal neovascularization associated with macular degeneration. *Arch Ophthalmol* 1991;109:211-5.
- [328] Meredith TA, Braley RE, Aaberg TM. Natural history of serous detachments of the retinal pigment epithelium. *Am J Ophthalmol* 1979;88:643-51.
- [329] Poliner LS, Oik RJ, Burgess D, et al. Natural history of retinal pigment epithelial detachments in age-related macular degeneration. *Ophthalmology* 1986;93:543-51.
- [330] Singerman LJ, Stockfish JH. Natural history of subfoveal pigment epithelial detachments associated with subfoveal or unidentifiable choroidal neovascularization complicating age-related macular degeneration. *Graefes Arch Clin Exp Ophthalmol* 1989;227:501-7.
- [331] Bird AC, Grey RHB. Photocoagulation of disciform macular lesions with krypton laser. *Br J Ophthalmol* 1979;63:669-73.
- [332] Macular Photocoagulation Study Group. Visual outcome after laser photocoagulation for subfoveal neovascularization secondary to age-related macular degeneration. The influence of initial lesion size and initial visual acuity. *Arch Ophthalmol* 1994;112:480-8.
- [333] Bressler NM, Finklestein D, Sunness JS, et al. Retinal pigment epithelial tears through the fovea with preservation of good visual acuity. *Arch Ophthalmol* 1990;108:1694-7.
- [334] Cantrill HL, Ramsay RC, Knobloch WH. Rips in the pigment epithelium. *Arch Ophthalmol* 1983;101:1074-9.
- [335] Chuang EL, Bird AC. The bilaterality of tears of the retinal pigment epithelium. *Br J Ophthalmol* 1988;72:918-20.
- [336] Coscas G, Koenig F, Soubrane G. The pretear characteristics of pigment epithelial detachments; a study of 40 eyes. *Arch Ophthalmol* 1990;108:1687-93.
- [337] Decker WL, Sanborn GE, Ridley M, et al. Retinal pigment epithelial tears. *Ophthalmology* 1983;90:507-12.
- [338] Gass JDM. Pathogenesis of tears of the retinal pigment epithelium. *Br J Ophthalmol* 1984;68:513-9.
- [339] Green SN, Yarian D. Acute tear of the retinal pigment epithelium. *Retina* 1983;3:16-20.
- [340] Heriot WJ, Macheimer R. Pigment epithelial repair. *Graefes Arch Clin Exp Ophthalmol* 1992;230:91-100.
- [341] Hoskin A, Bird AC, Sehmi K. Tears of detached retinal pigment epithelium. *Br J Ophthalmol* 1981;65:417-22.
- [342] Ie D, Yannuzzi LA, Spaide RF, et al. Microrips of the retinal pigment epithelium. *Arch Ophthalmol* 1992;110:1443-9.
- [343] Koenig F, Soubrane G, Coscas G. Déchirures de l'épithélium pigmentaire après photocoagulation au cours de la dégénérescence maculaire liée à l'âge. *J Fr Ophtalmol* 1989;12:775-80.
- [344] Macheimer R, Heriot W. Retinal pigment epithelial tears through the fovea with preservation of good visual acuity. *Arch Ophthalmol* 1991;109:1492-3.
- [345] Newsome DA, Huh W, Green WR. Bruch's membrane age-related changes vary by region. *Curr Eye Res* 1987;6:1211-21.
- [346] Schoeppner G, Chuang EL, Bird AC. The risk of fellow eye visual loss with unilateral retinal pigment epithelial tears. *Am J Ophthalmol* 1989;108:683-5.
- [347] Swanson DE, Kalina RE, Guzak SV. Tears of the retinal pigment epithelium; occurrence in retinal detachments and a chorioretinal scar. *Retina* 1984;4:115-8.
- [348] Hannan SR, Madhusudhana KC, Lotery AJ, et al. Retinal pigment epithelial tear following intravitreal bevacizumab for choroidal neovascular membrane due to age-related macular degeneration. *Br J Ophthalmol* 2007;91:977-8.
- [349] Goldbaum MH, Madden K. A new perspective on Bruch's membrane and the retinal pigment epithelium. *Br J Ophthalmol* 1982;66:17-25.
- [350] Yeo JH, Marcus S, Murphy RP. Retinal pigment epithelial tears; patterns and prognosis. *Ophthalmology* 1988;95:8-13.
- [351] Gass JDM. Radial chorioretinal folds; a sign of choroidal neovascularization. *Arch Ophthalmol* 1981;99:1016-8.
- [352] Schatz H, McDonald HR, Johnson RN. Retinal pigment epithelial folds associated with retinal pigment epithelial detachment in macular degeneration. *Ophthalmology* 1990;97:658-65.
- [353] Bennett SR, Folk JC, Blodi CF, et al. Factors prognostic of visual outcome in patients with subretinal hemorrhage. *Am J*

- Ophthalmol 1990;109:33–7.
- [354] Nasrallah F, Jalkh AE, Trempe CL, et al. Subretinal hemorrhage in atrophic age-related macular degeneration. *Am J Ophthalmol* 1989;107:38–41.
- [355] Bloome MA, Ruiz RS. Massive spontaneous subretinal hemorrhage. *Am J Ophthalmol* 1978;86:630–7.
- [356] Tani PM, Buettner H, Robertson DM. Massive vitreous hemorrhage and senile macular choroidal degeneration. *Am J Ophthalmol* 1980;90:525–33.
- [357] Green WR, Gass JDM. Senile disciform degeneration of the macula; retinal arterialization of the fibrous plaque demonstrated clinically and histopathologically. *Arch Ophthalmol* 1971;86:487–94.
- [358] Jalkh AE, Avila MP, Trempe CL, et al. Choroidal neovascularization in fellow eyes of patients with advanced senile macular degeneration; role of laser photocoagulation. *Arch Ophthalmol* 1983;101:1194–7.
- [359] Lavin MJ, Eldem B, Gregor ZJ. Symmetry of disciform scars in bilateral age-related macular degeneration. *Br J Ophthalmol* 1991;75:133–6.
- [360] Blair CJ, Aaberg TM. Massive subretinal exudation associated with senile macular degeneration. *Am J Ophthalmol* 1971;71:639–48.
- [361] Woods AC, Duke JR. Coats's disease. I. Review of the literature, diagnostic criteria, clinical findings, and plasma lipid studies. *Br J Ophthalmol* 1963;47:385–412.
- [362] Silva VB, Brockhurst RJ. Hemorrhagic detachment of the peripheral retinal pigment epithelium. *Arch Ophthalmol* 1976;94:1295–300.
- [363] Pesin SR, Katz LJ, Augsburger JJ, et al. Acute angle-closure glaucoma from spontaneous massive hemorrhagic retinal or choroidal detachment; an updated diagnostic and therapeutic approach. *Ophthalmology* 1990;97:76–84.
- [364] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 66.
- [365] Foos RY, Trese MT. Chorioretinal juncture; vascularization of Bruch's membrane in peripheral fundus. *Arch Ophthalmol* 1982;100:1492–503.
- [366] Maguire P, Vine AK. Geographic atrophy of the retinal pigment epithelium. *Am J Ophthalmol* 1986;102:621–5.
- [367] Schatz H, McDonald HR. Atrophic macular degeneration; rate of spread of geographic atrophy and visual loss. *Ophthalmology* 1989;96:1541–51.
- [368] Holz FG, Wolfensberger TJ, Piguet B, et al. Bilateral macular drusen in age-related macular degeneration; prognosis and risk factors. *Ophthalmology* 1994;101:1522–8.
- [369] Klein ML, Mauldin WM, Stoumbos VD. Heredity and age-related macular degeneration; observations in monozygotic twins. *Arch Ophthalmol* 1994;112:932–7.
- [370] Klein RJ, Zeiss C, Chew EY, et al. Complement factor H polymorphism in age-related macular degeneration. *Science* 2005;308:385–9.
- [371] Haines JL, Hauser MA, Schmidt S, et al. Complement factor H variant increases the risk of age-related macular degeneration. *Science* 2005;308:419–21.
- [372] Edwards AO, Ritter III R, Abel KJ, et al. Complement factor H polymorphism and age-related macular degeneration. *Science* 2005;308:421–4.
- [373] Tong Y, Liao J, Zhang Y, et al. LOC387715/HTRA1 gene polymorphisms and susceptibility to age-related macular degeneration: A HuGE review and meta-analysis. *Mol Vis* 2010;16:1958–81.
- [374] Marioli DI, Pharmakakis N, Deli A, et al. Complement factor H and LOC387715 gene polymorphisms in a Greek population with age-related macular degeneration. *Graefes Arch Clin Exp Ophthalmol* 2009;247:1547–53.
- [375] Deangelis MM, Ji F, Adams S, et al. Alleles in the HtrA serine peptidase 1 gene alter the risk of neovascular age-related macular degeneration. *Ophthalmology* 2008;115(1209–1215):e7.
- [376] Leveziel N, Souied EH, Richard F, et al. PLEKHA1-LOC387715-HTRA1 polymorphisms and exudative age-related macular degeneration in the French population. *Mol Vis* 2007;13:2153–9.
- [377] Kondo N, Honda S, Ishibashi K, et al. LOC387715/HTRA1 variants in polypoidal choroidal vasculopathy and age-related macular degeneration in a Japanese population. *Am J Ophthalmol* 2007;144:608–12.
- [378] DeWan A, Bracken MB, Hoh J. Two genetic pathways for age-related macular degeneration. *Curr Opin Genet Dev* 2007;17:228–33.
- [379] Spencer KL, Olson LM, Anderson BM, et al. C3 R102G polymorphism increases risk of age-related macular degeneration. *Hum Mol Genet* 2008;17:1821–4.
- [380] Mullins RF, Olvera MA, Clark AF, et al. Fibulin-5 distribution in human eyes: relevance to age-related macular degeneration. *Exp Eye Res* 2007;84:378–80.
- [381] Stone EM, Braun TA, Russell SR, et al. Missense variations in the fibulin 5 gene and age-related macular degeneration. *N Engl J Med* 2004;351:346–53.
- [382] Shastry BS. Evaluation of the ABCR and glutathione peroxidase-3 genes in familial and sporadic cases of exudative age-related macular degeneration. *Int J Mol Med* 2004;14:753–7.
- [383] Allikmets R. Further evidence for an association of ABCR alleles with age-related macular degeneration. The International ABCR Screening Consortium. *Am J Hum Genet* 2000;67:487–91.
- [384] De La Paz MA, Guy VK, Abou-Donia S, et al. Analysis of the Stargardt disease gene (ABCR) in age-related macular degeneration. *Ophthalmology* 1999;106:1531–6.
- [385] Stone EM, Webster AR, Vandenburg K, et al. Allelic variation in ABCR associated with Stargardt disease but not age-related macular degeneration. *Nat Genet* 1998;20:328–9.
- [386] Allikmets R, Shroyer NF, Singh N, et al. Mutation of the Stargardt disease gene (ABCR) in age-related macular degeneration. *Science* 1997;277:1805–7.
- [387] Hageman GS, Hancox LS, Taiber AJ, et al. Extended haplotypes in the complement factor H (CFH) and CFH-related (CFHR) family of genes protect against age-related macular degeneration: characterization, ethnic distribution and evolutionary implications. *Ann Med* 2006;38:592–604.
- [388] Hageman GS, Anderson DH, Johnson LV, et al. A common haplotype in the complement regulatory gene factor H (HF1/CFH) predisposes individuals to age-related macular degeneration. *Proc Natl Acad Sci U S A* 2005;102:7227–32.
- [389] Cruickshanks KJ, Klein R, Klein BEK. Sunlight and age-related macular degeneration; the Beaver Dam eye study. *Arch Ophthalmol* 1993;111:514–8.
- [390] Taylor HR, Muñoz B, West S, et al. Visible light and risk of age-related macular degeneration. *Trans Am Ophthalmol Soc* 1990;88:163–78.
- [391] Taylor HR, West S, Muñoz B, et al. The long-term effects of visible light on the eye. *Arch Ophthalmol* 1992;110:99–104.
- [392] Tso MOM. Pathogenetic factors of aging macular degeneration. *Ophthalmology* 1985;92:628–35.
- [393] van Norren D, Vos H. Sunlight and age-related macular degeneration. *Arch Ophthalmol* 1990;108:1670–1.
- [394] West SK, Rosenthal FS, Bressler NM, et al. Exposure to sunlight and other risk factors for age-related macular degeneration. *Arch Ophthalmol* 1989;107:875–9.
- [395] Young RW. Pathophysiology of age-related macular degeneration.



- Surv Ophthalmol 1987;31:291-306.
- [396] Young RW. Solar radiation and age-related macular degeneration. *Surv Ophthalmol* 1988;32:252-69.
- [397] The Eye Disease Case-Control Study Group. Antioxidant status and neovascular age-related macular degeneration. *Arch Ophthalmol* 1993;111:104-9.
- [398] The Eye Disease Case-Control Study Group. Risk factors for neovascular age-related macular degeneration. *Arch Ophthalmol* 1992;110:1701-8.
- [399] Klein R, Klein BEK, Linton KLP, et al. The Beaver Dam Eye Study: the relation of age-related maculopathy to smoking. *Am J Epidemiol* 1993;137:190-200.
- [400] Edwards DR, Gallins P, Polk M, et al. Inverse association of female hormone replacement therapy with age-related macular degeneration and interactions with ARMS2 polymorphisms. *Invest Ophthalmol Vis Sci* 2010;51:1873-9.
- [401] Jampol LM. Hypertension and visual outcome in the macular photocoagulation study. *Arch Ophthalmol* 1991;109:789-90.
- [402] Kingham JD, Chen MC, Levy MH. Macular hemorrhage in the aging eye: the effects of anticoagulants. *N Engl J Med* 1988;318:1126-7.
- [403] Lewis H, Sloan SH, Foos RY. Massive intraocular hemorrhage associated with anticoagulation and age-related macular degeneration. *Graefes Arch Clin Exp Ophthalmol* 1988;226:59-64.
- [404] Blumenkranz MS, Russell SR, Robey MG, et al. Risk factors in age-related maculopathy complicated by choroidal neovascularization. *Ophthalmology* 1986;96:552-8.
- [405] Silverstone BZ, Landau L, Berson D, et al. Zinc and copper metabolism in patients with senile macular degeneration. *Ann Ophthalmol* 1985;17:419-22.
- [406] Tsang NCK, Penfold PL, Snitch PJ, et al. Serum levels of antioxidants and age-related macular degeneration. *Doc Ophthalmol* 1992;81:387-400.
- [407] Newsome DA, Swartz M, Leone NC, et al. Macular degeneration and elevated serum ceruloplasmin. *Invest Ophthalmol Vis Sci* 1986;27:1675-80.
- [408] Klein R, Klein BEK, Franke T. The relationship of cardiovascular disease and its risk factors to age-related maculopathy. The beaver dam eye study. *Ophthalmology* 1993;100:406-14.
- [409] Sandberg MA, Tolentino MJ, Miller S, et al. Hyperopia and neovascularization in age-related macular degeneration. *Ophthalmology* 1993;100:1009-13.
- [410] Friedman E, Ivry M, Ebert E, et al. Increased scleral rigidity and age-related macular degeneration. *Ophthalmology* 1989;96:104-8.
- [411] Gurne DH, Tso MOM, Edward DP, et al. Antiretinal antibodies in serum of patients with age-related macular degeneration. *Ophthalmology* 1991;98:602-7.
- [412] Penfold PL, Provis JM, Furby JH, et al. Autoantibodies to retinal astrocytes associated with age-related macular degeneration. *Graefes Arch Clin Exp Ophthalmol* 1990;228:270-4.
- [412a] Mimoun G, Soubrane G, et al. Significance of the digital image in the diagnosis and classification of macular drusen. *Ophthalmologie* 1990;48-50.
- [412b] Arnold JJ, Sarks SH, et al. Reticular pseudodrusen. A risk factor in age-related maculopathy. *Retina* 1995;183-91.
- [412c] Maguire MG, Fine SL. Reticular pseudodrusen. *Retina* 1996;167-8.
- [412d] Smith RT, Chan JK, et al. Autofluorescence characteristics of early, atrophic, and high-risk fellow eyes in age-related macular degeneration. *Invest Ophthalmol Vis Sci* 2006;49:5495-504.
- [412e] Spaide RF, Curcio CA. Drusen characterization with multimodal imaging. *Retina* 2010;30(9):1441-54.
- [412f] Zweifel SA, Imamura Y, et al. Prevalence and significance of subretinal drusenoid deposits (reticular pseudodrusen) in age-related macular degeneration. *Ophthalmology* 2010;117(9):1775-81.
- [412g] Switzer DW, Engelbert M, et al. Spectral domain optical coherence tomography macular cube scans and retinal pigment epithelium/drusen maps may fail to display subretinal drusenoid deposits (reticular pseudodrusen) in eyes with non-neovascular age-related macular degeneration. *Eye (Lond)* 2011 [Epub ahead of print]
- [412h] Zweifel SA, Imamura Y, et al. Multimodal fundus imaging of pseudoxanthoma elasticum. *Retina* 2011;31(3):482-91.
- [412i] Yannuzzi LA, Negrao S, et al. Retinal angiomatous proliferation in age-related macular degeneration. *Retina* 2001;21(5):416-34.
- [412j] Gass JD, Agarwal A, et al. Focal inner retinal hemorrhages in patients with drusen: an early sign of occult choroidal neovascularization and chorioretinal anastomosis. *Retina* 2003;741-51.
- [412k] Mahmood S, Kumar N, et al. Early response of retinal angiomatous proliferation treated with intravitreal pegaptanib: a retrospective review. *Eye (Lond)* 2009:530-5.
- [412l] Atmani K, Voigt M, et al. Ranibizumab for retinal angiomatous proliferation in age-related macular degeneration. *Eye (Lond)* 2010:1193-8.
- [412m] Scott AW, Bressler SB. Retinal angiomatous proliferation or retinal anastomosis to the lesion. *Eye* 2010:491-6.
- [413] Tate Jr DJ, Oliver PD, Miceli MV, et al. Age-dependent change in the hyaluronic acid content of the human chorioretinal complex. *Arch Ophthalmol* 1993;111:963-7.
- [414] Bird AC. Recent advances in the treatment of senile disciform macular degeneration by photocoagulation. *Br J Ophthalmol* 1974;58:367-76.
- [415] Bird AC. Macular disciform response and laser treatment. *Trans Ophthalmol Soc UK* 1977;97:490-3.
- [416] Cleasby GW, Fung WE, Fiore Jr JV. Photocoagulation of exudative senile maculopathy. *Arch Ophthalmol* 1971;85:18-26.
- [417] Cleasby GW, Nakanishi AS, Norris JL. Prophylactic photocoagulation of the fellow eye in exudative senile maculopathy; a preliminary report. *Mod Probl Ophthalmol* 1979;20:141-7.
- [418] Coscas G. Le laser à krypton en ophtalmologie; premiers essais expérimentaux et cliniques. *Bull Mem Soc Fr Ophtalmol* 1981;93:100-6.
- [419] Coscas G, Soubrane G. Photocoagulation des néovaisseaux sous-rétiniens dans la dégénérescence maculaire sénile par laser à argon; résultats de l'étude randomisée de 60 cas. *Bull Mem Soc Fr Ophtalmol* 1982;84:149-54.
- [420] Coscas G, Soubrane G. The effects of red krypton and green argon laser on the foveal region; a clinical and experimental study. *Ophthalmology* 1983;90:1013-22.
- [421] Folk JC. Aging macular degeneration; clinical features of treatable disease. *Ophthalmology* 1985;92:594-602.
- [422] Folk JC, Blackhurst DW, Alexander J, Macular Photocoagulation Study Group. Pretreatment fundus characteristics as predictors of recurrent choroidal neovascularization. *Arch Ophthalmol* 1991;109:1193-4.
- [423] Grey RHB, Bird AC, Chisholm IH. Senile disciform macular degeneration: features indicating suitability for photocoagulation. *Br J Ophthalmol* 1979;63:85-9.
- [424] Harris GS. Photocoagulation of macular lesions following fluorescein angiography. *Can J Ophthalmol* 1969;4:16-19.
- [425] Jepson CN, Wetzig PC. Photocoagulation in disciform macular degeneration. *Am J Ophthalmol* 1969;67:920-30.
- [426] L'Esperance Jr FA. Clinical photocoagulation with the krypton

- laser. *Arch Ophthalmol* 1972;87:693–700.
- [427] Marshall J, Bird AC. A comparative histopathological study of argon and krypton laser irradiations of the human retina. *Br J Ophthalmol* 1979;63:657–68.
- [428] Marshall J, Hamilton AM, Bird AC. Intra-retinal absorption of argon laser irradiation in human and monkey retinas. *Experientia* 1974;30:1335–7.
- [429] McPherson A, Sabates F, Trempe CL. Macular disease experience sharing project. (American Academy of Ophthalmology exhibit 17 abstract). *Ophthalmology* 1982;89:173.
- [430] Patz A, Maumenee AE, Ryan SJ. Argon laser photocoagulation in macular diseases. *Trans Am Ophthalmol Soc* 1971;69:71–83.
- [431] Peyman GA, Li M, Yoneya MF, et al. Fundus photocoagulation with the argon and krypton lasers: a comparative study. *Ophthalmic Surg* 1981;12:481–90.
- [432] Schatz H. The senile maculopathies and the retinal pigment epithelium. *Int Ophthalmol Clin* 1975;15:169–80.
- [433] Schatz H, Patz A. Exudative senile maculopathy. I. Results of argon laser treatment. *Arch Ophthalmol* 1973;90:183–96.
- [434] Soubrane G, Coscas G, Baudouin C, et al. Long-term follow-up of the randomized argon blue/green trial in senile macular degeneration. *Int Ophthalmol* 1985;8:83.
- [435] Watzke RC, Snyder WB. Light coagulation for hemorrhagic disciform degeneration of the macula. *Trans Am Acad Ophthalmol Otolaryngol* 1968;72:389–95.
- [436] Yannuzzi LA. Krypton red laser photocoagulation for subretinal neovascularization. *Retina* 1982;2:29–46.
- [437] Yannuzzi LA, Shakin JL. Krypton red laser photocoagulation of the ocular fundus. *Retina* 1982;2:1–14.
- [438] Yassur Y, Axer-Siegel R, Cohen S, et al. Treatment of neovascular senile maculopathy at the foveal capillary free zone with red krypton laser. *Retina* 1982;2:127–33.
- [439] Zweng HC, Little HL, Peabody RR. Laser photocoagulation of macular lesions. *Trans Am Acad Ophthalmol Otolaryngol* 1968;72:377–88.
- [440] Fine SL. Macular photocoagulation study. *Arch Ophthalmol* 1980;98:832.
- [441] Fine SL, Murphy RP, Macula Photocoagulation Study Group. Photocoagulation for choroidal neovascularization. *Ophthalmology* 1983;90:531–3.
- [442] Macular Photocoagulation Study Group. Age-related macular degeneration. *Am J Ophthalmol* 1984;98:376–7.
- [443] Macular Photocoagulation Study Group. Argon laser photocoagulation for senile macular degeneration; results of a randomized clinical trial. *Arch Ophthalmol* 1982;100:912–8.
- [444] Macular Photocoagulation Study Group. Argon laser photocoagulation for neovascular maculopathy; three-year results from randomized clinical trials. *Arch Ophthalmol* 1986;104:694–701.
- [445] Macular Photocoagulation Study Group. Krypton laser photocoagulation for neovascular lesions of age-related macular degeneration; results of a randomized clinical trial. *Arch Ophthalmol* 1990;108:816–24.
- [446] Macular Photocoagulation Study Group. Argon laser photocoagulation for neovascular maculopathy; five-year results from randomized clinical trials. *Arch Ophthalmol* 1991;109:1109–14.
- [447] Macular Photocoagulation Study Group. Five-year follow-up of fellow eyes of patients with age-related macular degeneration and unilateral extrafoveal choroidal neovascularization. *Arch Ophthalmol* 1993;111:1189–99.
- [448] Macular Photocoagulation Study Group. Laser photocoagulation of subfoveal neovascular lesions of age-related macular degeneration; updated findings from two clinical trials. *Arch Ophthalmol* 1993;111:1200–9.
- [449] The Moorfields Macular Study Group. Treatment of senile disciform degeneration: a single-blind randomised trial by argon laser photocoagulation. *Br J Ophthalmol* 1982;66:745–53.
- [450] Macular Photocoagulation Study Group. Laser photocoagulation of subfoveal recurrent neovascular lesions in age-related macular degeneration; results of a randomized clinical trial. *Arch Ophthalmol* 1991;109:1232–41.
- [451] Macular Photocoagulation Study Group. Persistent and recurrent neovascularization after laser photocoagulation for subfoveal choroidal neovascularization of age-related macular degeneration. *Arch Ophthalmol* 1994;112:489–99.
- [452] Freund KB, Yannuzzi LA, Sorenson JA. Age-related macular degeneration and choroidal neovascularization. *Am J Ophthalmol* 1993;115:786–789.
- [453] Boyer DS, Heier JS, Brown DM, et al. A phase IIIb study to evaluate the safety of ranibizumab in subjects with neovascular age-related macular degeneration. *Ophthalmology* 2009;116:1731–9.
- [454] Boyer DS, Antoszyk AN, Awh CC, et al. Subgroup analysis of the MARINA study of ranibizumab in neovascular age-related macular degeneration. *Ophthalmology* 2007;114:246–52.
- [455] Sorensen TL, Kemp H. Ranibizumab treatment in patients with neovascular age-related macular degeneration and very low vision. *Acta Ophthalmol* 2011;89:e97.
- [456] Mones J. A review of ranibizumab clinical trial data in exudative age-related macular degeneration and how to translate it into daily practice. *Ophthalmologica* 2011;225:112–9.
- [457] Raja MS, Saldana M, Goldsmith C, et al. Ranibizumab treatment for neovascular age-related macular degeneration in patients with good baseline visual acuity (better than 6/12): 12-month outcomes. *Br J Ophthalmol* 2010;94:1543–5.
- [458] Querques G, Azrya S, Martinelli D, et al. Ranibizumab for exudative age-related macular degeneration: 24-month outcomes from a single-centre institutional setting. *Br J Ophthalmol* 2010;94:292–6.
- [459] Suzuki M, Gomi F, Sawa M, et al. Bevacizumab treatment for choroidal neovascularization due to age-related macular degeneration in Japanese patients. *Jpn J Ophthalmol* 2010;54:124–8.
- [460] Subramanian ML, Abedi G, Ness S, et al. Bevacizumab vs ranibizumab for age-related macular degeneration: 1-year outcomes of a prospective, double-masked randomised clinical trial. *Eye (Lond)* 2010;24:1708–15.
- [461] Spaide RF, Laud K, Fine HF, et al. Intravitreal bevacizumab treatment of choroidal neovascularization secondary to age-related macular degeneration. *Retina* 2006;26:383–90.
- [462] Avery RL, Pieramici DJ, Rabena MD, et al. Intravitreal bevacizumab (Avastin) for neovascular age-related macular degeneration. *Ophthalmology* 2006;113(363–372):e5.
- [463] Rosenfeld PJ, Schwartz SD, Blumenkranz MS, et al. Maximum tolerated dose of a humanized anti-vascular endothelial growth factor antibody fragment for treating neovascular age-related macular degeneration. *Ophthalmology* 2005;112:1048–53.
- [464] de Juan Jr E, Machermer R. Vitreous surgery for hemorrhagic and fibrous complications of age-related macular degeneration. *Am J Ophthalmol* 1988;105:25–9.
- [465] Kimura AE, Reddy CV, Folk JC, et al. Removal of subretinal hemorrhage facilitated by preoperative intravitreal tissue plasminogen activator. *Retina* 1994;14:83–4.
- [466] Toth CA, Morse LS, Hjelmeland LM, et al. Fibrin directs early retinal damage after experimental subretinal hemorrhage. *Arch Ophthalmol* 1991;109:723–9.
- [467] Vander JF, Federman JL, Greven C, et al. Surgical removal

- of massive subretinal hemorrhage associated with age-related macular degeneration. *Ophthalmology* 1991;98:23-7.
- [468] Wade EC, Flynn Jr HW, Olsen KR, et al. Subretinal hemorrhage management by pars plana vitrectomy and internal drainage. *Arch Ophthalmol* 1990;108:973-8.
- [469] Berger AS, Kaplan HJ. Clinical experience with the surgical removal of subfoveal neovascular membranes. Short-term postoperative results. *Ophthalmology* 1992;99:969-76.
- [470] Lambert HM, Capone Jr A, Aaberg TM, et al. Surgical excision of subfoveal neovascular membranes in age-related macular degeneration. *Am J Ophthalmol* 1992;113:257-62.
- [471] Lopez PF, Lambert HM, Grossniklaus HE, et al. Well-defined subfoveal choroidal neovascular membranes in age-related macular degeneration. *Ophthalmology* 1993;100:415-22.
- [472] Peyman GA, Blinder KJ, Paris CL, et al. A technique for retinal pigment epithelium transplantation for age-related macular degeneration secondary to extensive subfoveal scarring. *Ophthalmic Surg* 1991;22:102-8.
- [473] Peyman GA, Koziol J. Age-related macular degeneration and its management. *J Cataract Refract Surg* 1988;14:421-30.
- [474] Russell SR, Crapotta JA, Zerbolio Jr DJ. Surgical removal of subfoveal neovascularization. *Ophthalmology* 1993;100:795-6.
- [475] Thomas MA, Dickinson JD, Melberg NS, et al. Visual results after surgical removal of subfoveal choroidal neovascular membranes. *Ophthalmology* 1994;101:1384-96.
- [476] Thomas MA, Grand MG, Williams DF, et al. Surgical management of subfoveal choroidal neovascularization. *Ophthalmology* 1992;99:952-68.
- [477] Bhatt NS, Newsome DA, Fenech T, et al. Experimental transplantation of human retinal pigment epithelial cells on collagen substrates. *Am J Ophthalmol* 1994;117:214-21.
- [478] Machemer R, Steinhilber UH. Retinal separation, retinotomy, and macular relocation. II. A surgical approach for age-related macular degeneration?. *Graefes Arch Clin Exp Ophthalmol* 1993;31:635-41.
- [479] De La Paz M, Anderson RE. Region and age-dependent variation in susceptibility of the human retina to lipid peroxidation. *Invest Ophthalmol Vis Sci* 1992;33:3497-9.
- [480] West S, Vitale S, Hallfrisch J, et al. Are antioxidants or supplements protective for age-related macular degeneration?. *Arch Ophthalmol* 1994;112:222-7.
- [481] Liles MR, Newsome DA, Oliver PD. Antioxidant enzymes in the aging human retinal pigment epithelium. *Arch Ophthalmol* 1991;109:1285-8.
- [482] Newsome DA, Swartz M, Leone NC, et al. Oral zinc in macular degeneration. *Arch Ophthalmol* 1988;106:192-8.
- [483] Sperduto RD, Ferris III FL, Kurinij N. Do we have a nutritional treatment for age-related cataract or macular degeneration? *Arch Ophthalmol* 1990;108:1403-5.
- [484] Trempe CL. Reply to letter by Beaumont P: Zinc and macular degeneration. *Arch Ophthalmol* 1993;111:1023.
- [485] Bergink GJ, Deutman AF, van den Broek JFCM, et al. Radiation therapy for subfoveal choroidal neovascular membranes in age-related macular degeneration; a pilot study. *Graefes Arch Clin Exp Ophthalmol* 1994;32:591-8.
- [486] Chakravarthy U, Houston RF, Archer DB. Treatment of age-related subfoveal neovascular membranes by teletherapy: a pilot study. *Br J Ophthalmol* 1993;77:265-73.
- [487] Fine AM, Elman MJ, Ebert JE, et al. Earliest symptoms caused by neovascular membranes in the macula. *Arch Ophthalmol* 1986;104:513-4.
- [488] Fine SL. Advising patients about age-related macular degeneration. *Arch Ophthalmol* 1993;111:1186-8.
- [489] Blair CJ, Ferguson Jr J. Exacerbation of senile macular degeneration following cataract extraction. *Am J Ophthalmol* 1979;87:77-83.
- [490] Feman SS, Bartlett RE, Roth AM, et al. Intraocular hemorrhage and blindness associated with systemic anticoagulation. *JAMA* 1972;220:1354-5.
- [491] Gieser DK. Visual rehabilitation: the challenge, responsibility, and reward. *Ophthalmology* 1992;99:1622-5.
- [492] Nasrallah FP, Jalkh AE, Friedman GR, et al. Visual results with low-vision aids in age-related macular degeneration. *Am J Ophthalmol* 1988;106:730-4.
- [493] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 46.
- [494] Gass JDM, Jallow S, Davis B. Adult vitelliform macular detachment occurring in patients with basal laminar drusen. *Am J Ophthalmol* 1985;99:445-59.
- [495] Kenyon KR, Maumenee AE, Ryan SJ, et al. Diffuse drusen and associated complications. *Am J Ophthalmol* 1985;100:119-28.
- [496] Lerche W. Pigmentepithelveränderungen bei Drusen im Maculabereich. *Ber Dtsch Ophthalmol Ges* 1973;73:439-46.
- [497] Müller H. Anatomische Beiträge zur Ophthalmologie. *Albrecht von Graefes Arch Ophthalmol* 1856;2:1-69.
- [498] Coats G. The structure of the membrane of Bruch, and its relation to the formation of colloid excrescences. *R Lond Ophthalmic Hosp Rep* 1905;16:164-78.
- [499] Nakaizumi Y. The ultrastructure of Bruch's membrane. I. Human, monkey, rabbit, guinea pig, and rat eyes. *Arch Ophthalmol* 1964;72:380-7.
- [500] Lerche W. Clinical and electron microscopic studies of degeneration in the macular region. *Concilium Ophthalmologicum XXI, Mexico, 1970, Acta* 1971;1:828-31.
- [501] Boon CJ, Klevering BJ, Hoyng CB, et al. Basal laminar drusen caused by compound heterozygous variants in the CFH gene. *Am J Hum Genet* 2008;82:516-23.
- [502] Boon CJ, van de Kar NC, Klevering BJ, et al. The spectrum of phenotypes caused by variants in the CFH gene. *Mol Immunol* 2009;46:1573-94.
- [503] Cleasby GW. Idiopathic focal subretinal neovascularization. *Am J Ophthalmol* 1976;81:590-6.
- [504] Delaney Jr WV, Torrisi PF, Hampton GR, et al. Hemorrhagic peripheral pigment epithelial disease. *Arch Ophthalmol* 1988;106:646-50.
- [505] Gass JDM. St Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. Louis: CV Mosby; 1987. p. 198-201.
- [506] Kleiner RC, Brucker AJ, Johnston RL. The posterior uveal bleeding syndrome. *Retina* 1990;10:9-17.
- [507] Lopez PF, Green WR. Peripapillary subretinal neovascularization; a review. *Retina* 1992;12:147-71.
- [508] Macular Photocoagulation Study Group. Krypton laser photocoagulation for idiopathic neovascular lesions; results of a randomized clinical trial. *Arch Ophthalmol* 1990;108:832-7.
- [509] Spitznas M, Böker T. Idiopathic posterior subretinal neovascularization (IPSN) is related to myopia. *Graefes Arch Clin Exp Ophthalmol* 1991;29:536-8.
- [510] Stern RM, Zakov ZN, Zegarra H, et al. Multiple recurrent serosanguineous retinal pigment epithelial detachments in black women. *Am J Ophthalmol* 1985;100:560-9.
- [511] Thomas JW, Grossniklaus HE, Lambert HM, et al. Ultrastructural features of surgically excised idiopathic subfoveal neovascular membranes. *Retina* 1993;13:93-8.
- [512] Yannuzzi LA, Sorenson J, Spaide RF, et al. Idiopathic polypoidal choroidal vasculopathy (IPC). *Retina* 1990;10:1-8.
- [513] Macular Photocoagulation Study Group. Argon laser photocoagulation for idiopathic neovascularization; results of a randomized clinical trial. *Arch Ophthalmol* 1983;101:1358-61.

- [514] Bardenstein DS, Char DH, Irvine AR, et al. Extramacular disciform lesions simulating uveal tumors. *Ophthalmology* 1992;99:944–51.
- [515] Mazow ML, Ruiz RS. Eccentric disciform degeneration. *Trans Am Acad Ophthalmol Otolaryngol* 1973;77:OP68–73.
- [516] Annesley Jr WH. Peripheral exudative hemorrhagic chorioretinopathy. *Trans Am Ophthalmol Soc* 1980;78:321–64.
- [517] Kingham JD. Hemorrhagic detachment of the peripheral retinal pigment epithelium. *Ann Ophthalmol* 1978;10:175–8.
- [518] Orth DH, Flood TP. Management of breakthrough vitreous hemorrhage from presumed extramacular subretinal neovascularization. *Retina* 1982;2:89–93.
- [519] Clarkson JG, Altman RD. Angioid streaks. *Surv Ophthalmol*. 1982;26:235–46.
- [520] Federman JL, Shields JA, Tomer TL. Angioid streaks. II. Fluorescein angiographic features. *Arch Ophthalmol*. 1975;93:951–62.
- [521] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 78.
- [522] Hagedoorn A. Angioid streaks. *Arch Ophthalmol*. 1939;21:935–65.
- [523] Paton D. *The relation of angioid streaks to systemic disease*. Springfield, IL: Charles C Thomas; 1972.
- [524] Shields JA, Federman JL, Tomer TL, et al. Angioid streaks. I. Ophthalmoscopic variations and diagnostic problems. *Br J Ophthalmol* 1975;59:257–66.
- [525] Gass JDM, Clarkson JG. Angioid streaks and disciform macular detachment in Paget's disease (osteitis deformans). *Am J Ophthalmol* 1973;75:576–86.
- [526] Klien BA. Angioid streaks; a clinical and histopathologic study. *Am J Ophthalmol* 1947;30:955–68.
- [527] Lim JI, Lam S. A retinal pigment epithelium tear in a patient with angioid streaks. *Arch Ophthalmol* 1990;108:1672–4.
- [528] Gass JDM. Pathogenesis of disciform detachment of the neuroepithelium. VI. Disciform detachment secondary to heredodegenerative, neoplastic and traumatic lesions of the choroid. *Am J Ophthalmol* 1967;63:689–711.
- [529] Smith JL, Gass JDM, Justice Jr J. Fluorescein fundus photography of angioid streaks. *Br J Ophthalmol* 1964;48:517–21.
- [530] Green WR, Friedman-Kien A, Banfield WG. Angioid streaks in Ehlers–Danlos syndrome. *Arch Ophthalmol* 1966;76:197–204.
- [531] McLane NJ, Grizzard WS, Kousseff BG, et al. Angioid streaks associated with hereditary spherocytosis. *Am J Ophthalmol* 1984;97:444–9.
- [532] Connor Jr PJ, Juergens JL, Perry HO, et al. Pseudoxanthoma elasticum and angioid streaks: A review of 106 cases. *Am J Med* 1961;30:537–43.
- [533] Grand MG, Isserman MJ, Miller CW. Angioid streaks associated with pseudoxanthoma elasticum in a 13-year-old patient. *Ophthalmology* 1987;94:197–200.
- [534] Grönblad E. Angioid streaks–pseudoxanthoma elasticum (Vorläufige Mitteilung). *Acta Ophthalmol* 1929;7:329.
- [535] Strandberg J. Pseudoxanthoma elasticum. *Zentralbl Haut Geschlechtskrankh* 1929;31:689.
- [536] Yap E-Y, Gleaton MS, Buettner H. Visual loss associated with pseudoxanthoma elasticum. *Retina* 1992;12:315–9.
- [537] Sato N, Nakayama T, Mizutani Y, et al. Novel mutations of ABCG6 gene in Japanese patients with Angioid streaks. *Biochem Biophys Res Commun* 2009;380:548–53.
- [538] Gills Jr JP, Paton D. Mottled fundus oculi in pseudoxanthoma elasticum; a report on two siblings. *Arch Ophthalmol* 1965;73:792–5.
- [539] Krill AE, Klien BA, Archer DB. Precursors of angioid streaks. *Am J Ophthalmol* 1973;76:875–9.
- [540] Shimizu K. Mottled fundus in association with pseudoxanthoma elasticum. *Jpn J Ophthalmol* 1961;5:1–13.
- [541] Kim DD, Pulido JS, Wipplinger WA. Indocyanine green angiographic findings in pseudoxanthoma elasticum. *Am J Ophthalmol* 1993;116:767–9.
- [542] Agarwal A, Patel P, Adkins T, et al. Spectrum of pattern dystrophy in pseudoxanthoma elasticum. *Arch Ophthalmol* 2005;123:923–8.
- [543] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 3rd ed. St. Louis: CV Mosby; 1987. p. 106.
- [544] McDonald HR, Schatz H, Aaberg TM. Reticular-like pigmentary patterns in pseudoxanthoma elasticum. *Ophthalmology* 1988;95:306–11.
- [545] Zürcher M, Schipper I. Punktförmige bis retikuläre Pigmentverschiebungen bei einem Patienten mit Pseudoxanthoma elasticum (Grönblad-Strandberg-Syndrom). *Klin Monatsbl Augenheilkd* 1990;196:30–2.
- [546] Meislik J, Neldner K, Reeve EB, et al. Atypical drusen in pseudoxanthoma elasticum. *Can J Ophthalmol* 1978;13:210–2.
- [547] Coleman K, Ross MH, McCabe M, et al. Disk drusen and angioid streaks in pseudoxanthoma elasticum. *Am J Ophthalmol* 1991;112:166–70.
- [548] Mansour AM. Is there an association between optic disc drusen and angioid streaks?. *Graefes Arch Clin Exp Ophthalmol* 1992;230:595–6.
- [549] Khairallah M. Congenital communication of cilioretinal and retinal arteries associated with angioid streaks. *Arch Ophthalmol* 1997;115:1328–9.
- [550] Woodcock CW. Pseudoxanthoma elasticum, angioid streaks of retina, and osteitis deformans. *AMA Arch Dermatol Syph* 1952;65:623.
- [551] Khetarpal S, Downes SM, Eagling EM. Paget's disease presenting with exophthalmos. *Eye* 1994;8:480–1.
- [552] Pandit V, Seshadri S. Paget's disease complicated by hydrocephalus and dementia. *Neurol India* 2008;56:216–8.
- [553] Moiyadi AV, Praharaj SS, Pillai VS, et al. Hydrocephalus in Paget's disease. *Acta Neurochir (Wien)* 2006;148:1297–300. [discussion 300.]
- [554] Martin BJ, Roberts MA, Turner JW. Normal pressure hydrocephalus and Paget's disease of bone. *Gerontology* 1985;31:397–402.
- [555] Clarkson JG. Paget's disease and angioid streaks: One complication less?. *Br J Ophthalmol* 1991;75:511.
- [556] Dabbs TR, Skjodt K. Prevalence of angioid streaks and other ocular complications of Paget's disease of bone. *Br J Ophthalmol* 1990;74:579–82.
- [557] Mills BG, Singer FR. Nuclear inclusions in Paget's disease of bone. *Science* 1976;194:201–2.
- [558] Smith R. Paget's disease and angioid streaks: One complication less?. *Br J Ophthalmol* 1990;74:577–8.
- [559] Terry TL. Angioid streaks and osteitis deformans. *Trans Am Ophthalmol Soc* 1934;32:555–73.
- [560] Eretto P, Krohel GB, Shihab ZM, et al. Optic neuropathy in Paget's disease. *Am J Ophthalmol* 1984;97:505–10.
- [561] Ralston SH, Langston AL, Reid IR. Pathogenesis and management of Paget's disease of bone. *Lancet* 2008;372:155–63.
- [562] Pecorella I, Ciardi A, Amadeo G, et al. Orbital osteoclastoma of apparent extraskeletal origin in a pagetic patient: a case report. *Hum Pathol* 2000;31:1527–31.
- [563] Goldberg S, Slamovits TL, Dorfman HD, et al. Sarcomatous transformation of the orbit in a patient with Paget's disease. *Ophthalmology* 2000;107:1464–7.
- [564] Condon PI, Serjeant GR. Ocular findings in hemoglobin SC



- disease in Jamaica. *Am J Ophthalmol* 1972;74:921-31.
- [565] Condon PI, Serjeant GR. Ocular findings in homozygous sickle cell anemia in Jamaica. *Am J Ophthalmol* 1972;73:533-43.
- [566] Condon PI, Serjeant GR. Ocular findings in elderly cases of homozygous sickle-cell disease in Jamaica. *Br J Ophthalmol* 1976;60:361-4.
- [567] Deutman AF, Kovács B. Argon laser treatment in complications of angioid streaks. *Am J Ophthalmol* 1979;88:12-17.
- [568] Geeraets WJ, Guerry D. III. Angioid streaks and sickle-cell disease. *Am J Ophthalmol* 1960;49:450-70.
- [569] Goodman G, von Sallmann L, Holland MG. Ocular manifestations of sickle-cell disease. *Arch Ophthalmol* 1957;58:655-82.
- [570] Hamilton AM, Pope FM, Condon PI, et al. Angioid streaks in Jamaican patients with homozygous sickle cell disease. *Br J Ophthalmol* 1981;65:341-7.
- [571] Jampol LM, Acheson R, Eagle Jr RC, et al. Calcification of Bruch's membrane in angioid streaks with homozygous sickle cell disease. *Arch Ophthalmol* 1987;105:93-8.
- [572] Nagpal KC, Asdourian G, Goldbaum M, et al. Angioid streaks and sickle haemoglobinopathies. *Br J Ophthalmol* 1976;60:31-4.
- [573] Paton D. Angioid streaks in sickle cell anemia; a report of two cases. *Arch Ophthalmol* 1959;62:852-8.
- [574] Shilling JS, Blach RK. Prognosis and therapy of angioid streaks. *Trans Ophthalmol Soc UK* 1975;95:301-6.
- [575] Aessopos A, Voskaridou E, Kavouklis E, et al. Angioid streaks in sickle-thalassemia. *Am J Ophthalmol* 1994;117:589-92.
- [576] Goldberg MF, Charache S, Acacio I. Ophthalmologic manifestations of sickle cell thalassemia. *Arch Intern Med* 1971;128:33-9.
- [577] Gerde LS. Angioid streaks in sickle cell trait hemoglobinopathy. *Am J Ophthalmol* 1974;77:462-4.
- [578] Daneshmend TK. Ocular findings in a case of haemoglobin H disease. *Br J Ophthalmol* 1979;63:842-4.
- [579] Aessopos A, Stamatelos G, Savvides P, et al. Angioid streaks in homozygous beta thalassemia. *Am J Ophthalmol* 1989;108:356-9.
- [580] Singerman LJ. Angioid streaks in thalassaemia major. *Br J Ophthalmol* 1983;267:558.
- [581] Kinsella FP, Mooney DJ. Angioid streaks in beta thalassaemia minor. *Br J Ophthalmol* 1988;72:303-4.
- [582] O'Donnell BF, Powell FC, O'Loughlin S, et al. Angioid streaks in  $\beta$  thalassaemia minor. *Br J Ophthalmol* 1991;75:639.
- [583] Aessopos A, Floudas CS, Kati M, et al. Loss of vision associated with angioid streaks in beta-thalassemia intermedia. *Int J Hematol* 2008;87:35-8.
- [584] Roberts E, Madhusudhana KC, Newsom R, et al. Blindness due to angioid streaks in congenital dyserythropoietic anaemia type I. *Br J Haematol* 2006;133:456.
- [585] Dieckert J, White M, Christmann L, et al. Angioid streaks associated with abetalipoproteinemia. *Ann Ophthalmol*. 1989;21:173-9.
- [586] Mansour AM, Shields JA, Annesley Jr WH, et al. Macular degeneration in angioid streaks. *Ophthalmologica* 1988;197:36-41.
- [587] Runge P, Muller DPR, McAllister J, et al. Oral vitamin E supplements can prevent the retinopathy of abetalipoproteinemia. *Br J Ophthalmol* 1986;70:166-73.
- [588] Lakhnani V, Schocket SS, Hameroff SB. Angioid streaks in pituitary tumor. *South Med J* 1978;71:1298-302.
- [589] Awan KJ. Familial polyposis and angioid streaks in the ocular fundus. *Am J Ophthalmol* 1977;83:123-5.
- [590] Kalina RE. Facial angiomatosis with angioid streaks. Association of angioid streaks with a component of the Sturge-Weber syndrome. *Arch Ophthalmol* 1970;84:528-31.
- [591] Ahluwalia HS, Lukaris A, Lane CM, et al. Angioid streaks with congenital hypertrophy of the retinal pigment epithelium: an association or a mere coincidence?. *Eye (Lond)* 2002;16:645-6.
- [592] Brancato R, Menchini U, Pece A, et al. Laser treatment of macular subretinal neovascularizations in angioid streaks. *Ophthalmologica* 1987;195:84-7.
- [593] Gelisken Ö, Hendrikse F, Deutman AF. A long-term follow-up study of laser coagulation of neovascular membranes in angioid streaks. *Am J Ophthalmol* 1988;105:299-303.
- [594] Lim JI, Bressler NM, Marsh MJ, et al. Laser treatment of choroidal neovascularization in patients with angioid streaks. *Am J Ophthalmol* 1993;116:414-23.
- [595] Meislik J, Neldner K, Reeve EB, et al. Laser treatment in maculopathy of pseudoxanthoma elasticum. *Can J Ophthalmol* 1978;13:210-2.
- [596] Pece A, Avanza P, Zorgno F, et al. Photocoagulation au laser des néovaisseaux sous-rétiniens maculaires survenant au cours des stries angioides. *J Fr Ophthalmol* 1989;12:687-9.
- [597] Singerman LJ, Hatem G. Laser treatment of choroidal neovascular membranes in angioid streaks. *Retina* 1981;1:75-83.
- [598] Wilkinson CP. Stimulation of subretinal neovascularization. *Am J Ophthalmol* 1976;81:104-6.
- [599] Mimoun G, Tilleul J, Leys A, et al. Intravitreal ranibizumab for choroidal neovascularization in angioid streaks. *Am J Ophthalmol* 2010;150(692-700):e1.
- [600] Ladas ID, Kotsolis AI, Ladas DS, et al. Intravitreal ranibizumab treatment of macular choroidal neovascularization secondary to angioid streaks: one-year results of a prospective study. *Retina* 2010;30:1185-9.
- [601] Sawa M, Gomi F, Tsujikawa M, et al. Long-term results of intravitreal bevacizumab injection for choroidal neovascularization secondary to angioid streaks. *Am J Ophthalmol* 2009;148(584-590):e2.
- [602] Donati MC, Virgili G, Bini A, et al. Intravitreal bevacizumab (Avastin) for choroidal neovascularization in angioid streaks: a case series. *Ophthalmologica* 2009;223:24-7.
- [603] Curtin BJ, Karlin DB. Axial length measurements and fundus changes of the myopic eye. *Am J Ophthalmol* 1971;71:42-53.
- [604] Fuchs E. Der centrale schwarze Fleck bei Myopie. *Z Augenheilkd* 1901;5:171-81.
- [605] Hampton GR, Kohen D, Bird AC. Visual prognosis of disciform degeneration in myopia. *Ophthalmology* 1983;90:923-6.
- [606] Hotchkiss ML, Fine SL. Pathologic myopia and choroidal neovascularization. *Am J Ophthalmol* 1981;91:177-83.
- [607] Levy JH, Pollock HM, Curtin BJ. The Fuchs' spot: An ophthalmoscopic and fluorescein angiographic study. *Ann Ophthalmol* 1977;9:1433-43.
- [608] Avila MP, Weiter JJ, Jalkh AE, et al. Natural history of choroidal neovascularization in degenerative myopia. *Ophthalmology* 1984;91:1573-81.
- [609] Hayasaka S, Uchida M, Setogawa T. Subretinal hemorrhages with or without choroidal neovascularization in the maculas of patients with pathologic myopia. *Graefes Arch Clin Exp Ophthalmol* 1990;228:277-80.
- [610] Klein RM, Green S. The development of lacquer cracks in pathologic myopia. *Am J Ophthalmol* 1988;106:282-5.
- [611] Pruett RC, Weiter JJ, Goldstein RB. Myopic cracks, angioid streaks, and traumatic tears in Bruch's membrane. *Am J Ophthalmol* 1987;103:537-43.
- [612] Förster R. *Ophthalmologische beitrage*. Berlin: T.C.F. Enslin; 1862.
- [613] Green WR. *Retina; myopia* In: Spencer WH, editor. *Ophthalmic pathology; an atlas and textbook*, vol. 2, 3rd ed. Philadelphia: WB

- Saunders; 1985. p. 913–24.
- [614] Grossniklaus HE, Green WR. Pathologic findings in pathologic myopia. *Retina* 1992;12:127–33.
- [615] Bonnet M, Semiglia R. Evolution spontanée du décollement de la rétine du pôle postérieur du myope fort. *J Fr Ophtalmol* 1991;14:618–23.
- [616] Wakabayashi Y, Nishimura A, Higashide T, et al. Unilateral choroidal excavation in the macula detected by spectral-domain optical coherence tomography. *Acta Ophthalmol* 2010;88:e87–91.
- [617] Jampol LM, Shankle J, Schroeder R, et al. Diagnostic and therapeutic challenges. *Retina* 2006;26:1072–6.
- [618] Celorio JM, Pruett RC. Prevalence of lattice degeneration and its relation to axial length in severe myopia. *Am J Ophthalmol* 1991;111:20–3.
- [619] Phillips CI. Aetiology of myopia. *Br J Ophthalmol*. 1990;74:47–8.
- [620] Klein RM, Curtin BJ. Lacquer crack lesions in pathologic myopia. *Am J Ophthalmol* 1975;79:386–92.
- [621] Funata M, Tokoro T. Scleral change in experimentally myopic monkeys. *Graefes Arch Clin Exp Ophthalmol* 1990;228:174–9.
- [622] Jalkh AE, Weiter JJ, Trempe CL, et al. Choroidal neovascularization in degenerative myopia: role of laser photocoagulation. *Ophthalmic Surg* 1987;18:721–5.
- [623] Blankenship GW, Ibanez-Langlois S. Treatment of myopic macular hole and detachment; intravitreal gas exchange. *Ophthalmology* 1987;94:333–6.
- [624] Curtin BJ, Whitmore WG. Long-term results of scleral reinforcement surgery. *Am J Ophthalmol* 1987;103:544–8.
- [625] Woods AC, Wahlen HE. The probable role of benign histoplasmosis in the etiology of granulomatous uveitis. *Am J Ophthalmol* 1960;49:205–20.
- [626] Ganley JP. Epidemiologic characteristics of presumed ocular histoplasmosis. *Acta Ophthalmol Suppl* 1973:119.
- [627] Gass JDM. Pathogenesis of disciform detachment of the neuroepithelium. V. Disciform macular degeneration secondary to focal choroiditis. *Am J Ophthalmol* 1967;63:661–87.
- [628] Gass JDM. Correlation of fluorescein angiography and histopathology. *Doc Ophthalmol Proc Ser* 1976;9:359–65.
- [629] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 90.
- [630] Gass JDM, Wilkinson CP. Follow-up study of presumed ocular histoplasmosis. *Trans Am Acad Ophthalmol Otolaryngol* 1972;76:672–94.
- [631] Klintworth GK, Hollingsworth AS, Lusman PA, et al. Granulomatous choroiditis in a case of disseminated histoplasmosis; histologic demonstration of *Histoplasma capsulatum* in choroidal lesions. *Arch Ophthalmol* 1973;90:45–8. [correspondence 1974;91: 237.]
- [632] Krause AC, Hopkins WG. Ocular manifestation of histoplasmosis. *Am J Ophthalmol* 1951;34:564–6.
- [633] Lewis ML, Schiffman JC. Long-term follow-up of the second eye in ocular histoplasmosis. *Int Ophthalmol Clin* 1983;23:125–35.
- [634] Maumenee AE. Clinical entities in “uveitis”: an approach to the study of intraocular inflammation. *Am J Ophthalmol* 1970;69:1–27.
- [635] Sabates FN, Lee KY, Sabates R. Early argon laser photocoagulation of presumed histoplasma maculopathy. *Am J Ophthalmol* 1977;84:172–86.
- [636] Schlaegel Jr TF. Ocular histoplasmosis. New York: Grune & Stratton; 1977. p. 47, 195.
- [637] Weingeist TA, Watzke RC. Ocular involvement by *Histoplasma capsulatum*. *Int Ophthalmol Clin* 1983;23:33–47.
- [638] Lewis ML, Van Newkirk MR, Gass JDM. Follow-up study of presumed ocular histoplasmosis syndrome. *Ophthalmology* 1980;87:390–9.
- [639] Baskin MA, Jampol LM, Huamonte FU, et al. Macular lesions in blacks with the presumed ocular histoplasmosis syndrome. *Am J Ophthalmol* 1980;89:77–83.
- [640] Jones DB. Presumed histoplasmic choroiditis: a possible late manifestation of a benign disease. In: Ajello L, Chick EW, Furcolow ML, editors. *Histoplasmosis; proceedings of the second national conference*. Springfield, IL: Charles C Thomas; 1971. p. 206–20.
- [641] Check IJ, Diddie KR, Jay WM, et al. Lymphocyte stimulation by yeast phase *Histoplasma capsulatum* in presumed ocular histoplasmosis syndrome. *Am J Ophthalmol* 1979;87:311–6.
- [642] Ganley JP, Nemo GJ, Comstock GW, et al. Lymphocyte transformation in presumed ocular histoplasmosis. *Arch Ophthalmol* 1981;99:1424–9.
- [643] Braley RE, Meredith TA, Aaberg TM, et al. The prevalence of HLA-B7 in presumed ocular histoplasmosis. *Am J Ophthalmol* 1978;85:859–61.
- [644] Godfrey WA, Sabates R, Cross DE. Association of presumed ocular histoplasmosis with HLA-B7. *Am J Ophthalmol* 1978;85:854–8.
- [645] Meredith TA, Smith RE, Braley RE, et al. The prevalence of HLA-B7 in presumed ocular histoplasmosis in patients with peripheral atrophic scars. *Am J Ophthalmol* 1978;86:325–8.
- [646] Meredith TA, Smith RE, Duquesnoy RJ. Association of HLA-DRw2 antigen with presumed ocular histoplasmosis. *Am J Ophthalmol* 1980;89:70–6.
- [647] Spaide RF, Skerry JE, Yannuzzi LA, et al. Lack of the HLA-DR2 specificity in multifocal choroiditis and panuveitis. *Br J Ophthalmol* 1990;74:536–7.
- [648] Rivers MB, Pulido JS, Folk JC. III-defined choroidal neovascularization within ocular histoplasmosis scars. *Retina* 1992;12:90–5.
- [649] Beck RW, Sergott RC, Barr CC, et al. Optic disc edema in the presumed ocular histoplasmosis syndrome. *Ophthalmology* 1984;91:183–5.
- [650] Husted RC, Shock JP. Acute presumed histoplasmosis of the optic nerve head. *Br J Ophthalmol* 1975;59:409–12.
- [651] Fountain JA, Schlaegel Jr TF. Linear streaks of the equator in the presumed ocular histoplasmosis syndrome. *Arch Ophthalmol* 1981;99:246–8.
- [652] Bopp S, Laqua H. Periphere Netzhautstreifen; lineare Depigmentierung des peripheren retinalen Pigmentepithels. *Klin Monatsbl Augenheilkd* 1991;198:20–4.
- [653] Bottoni FG, Deutman AF, Aandeker AL. Presumed ocular histoplasmosis syndrome and linear streak lesions. *Br J Ophthalmol* 1989;73:528–35.
- [654] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 534–537.
- [655] Spaide RF, Yannuzzi LA, Freund KB. Linear streaks in multifocal choroiditis and panuveitis. *Retina* 1991;11:229–31.
- [656] Cantrill HL, Burgess D. Peripapillary neovascular membranes in presumed ocular histoplasmosis. *Am J Ophthalmol* 1980;89:192–203.
- [657] Jost BF, Olk RJ, Burgess DB. Factors related to spontaneous visual recovery in the ocular histoplasmosis syndrome. *Retina* 1987;7:1–8.
- [658] Kleiner RC, Ratner CM, Enger C, et al. Subfoveal neovascularization in the ocular histoplasmosis syndrome; a natural history study. *Retina* 1988;8:225–9.
- [659] Elliott JH, Jackson DJ. Presumed histoplasmic maculopathy: clinical course and prognosis in nonphotocoagulated eyes. *Int Ophthalmol Clin* 1975;15:29–39.
- [660] Gutman FA. The natural course of active choroidal lesions in the

- presumed ocular histoplasmosis syndrome. *Trans Am Ophthalmol Soc* 1979;77:515-41.
- [661] Klein ML, Fine SL, Knox DL, et al. Follow-up study in eyes with choroidal neovascularization caused by presumed ocular histoplasmosis. *Am J Ophthalmol* 1977;83:830-5.
- [662] Watzke RC, Claussen RW. The long-term course of multifocal choroiditis (presumed ocular histoplasmosis). *Am J Ophthalmol* 1981;91:750-60.
- [663] Macular Photocoagulation Study Group. Krypton laser photocoagulation for neovascular lesions of ocular histoplasmosis; results of a randomized clinical trial. *Arch Ophthalmol* 1987;105:1499-507.
- [664] Ryan Jr SJ. De novo subretinal neovascularization in the histoplasmosis syndrome. *Arch Ophthalmol* 1976;94:321-7.
- [665] Schlaegel Jr TF. The natural history of histo spots in the disc-macular area. *Int Ophthalmol Clin* 1975;15:19-28.
- [666] Smith RE, Ganley JP, Knox DL. Presumed ocular histoplasmosis. II. Patterns of peripheral and peripapillary scarring in persons with nonmacular disease. *Arch Ophthalmol* 1972;87:251-7.
- [667] Smith RE, Knox DL, Jensen AD. Ocular histoplasmosis; significance of asymptomatic macular scars. *Arch Ophthalmol* 1973;89:296-300.
- [668] Wilkinson CP. Presumed ocular histoplasmosis. *Am J Ophthalmol* 1976;82:140-2.
- [669] Sawelson H, Goldberg RE, Annesley Jr WH, et al. Presumed ocular histoplasmosis syndrome; the fellow eye. *Arch Ophthalmol* 1976;94:221-4.
- [670] Craig EL, Suie T. *Histoplasma capsulatum* in human ocular tissue. *Arch Ophthalmol* 1974;91:285-9.
- [671] Goldstein BG, Buettner H. *Histoplasmic endophthalmitis*; a clinicopathologic correlation. *Arch Ophthalmol* 1983;101:774-7.
- [672] Hoefnagels KJJ, Pijpers PM. *Histoplasma capsulatum* in a human eye. *Am J Ophthalmol* 1967;63:715-23.
- [673] Jester JV, Smith RE. Subretinal neovascularization after experimental ocular histoplasmosis in a subhuman primate. *Am J Ophthalmol* 1985;100:252-8.
- [674] Morinelli EN, Dugel PU, Riffenburgh R, et al. Infectious multifocal choroiditis in patients with acquired immune deficiency syndrome. *Ophthalmology* 1993;100:1014-21.
- [675] Pulido JS, Folberg R, Carter KD, et al. *Histoplasma capsulatum* endophthalmitis after cataract extraction. *Ophthalmology* 1990;97:217-20.
- [676] Ryan SJ. Histopathological correlates of presumed ocular histoplasmosis. *Int Ophthalmol Clin* 1975;15:125-37.
- [677] Scholz R, Green WR, Kutys R, et al. *Histoplasma capsulatum* in the eye. *Ophthalmology* 1984;91:1100-4.
- [678] Schwarz J, Salfelder K, Vilorio HJE. *Histoplasma capsulatum* in vessels of the choroid. *Ann Ophthalmol* 1977;9:633-6.
- [679] Specht CS, Mitchell KT, Bauman AE, et al. Ocular histoplasmosis with retinitis in a patient with acquired immune deficiency syndrome. *Ophthalmology* 1991;98:1356-9.
- [680] Gass JDM, Zimmerman LE. Histopathologic demonstration of *Histoplasma capsulatum*. *Am J Ophthalmol* 1978;85:725.
- [681] Khalil MK. Histopathology of presumed ocular histoplasmosis. *Am J Ophthalmol* 1982;94:369-76.
- [682] Makley Jr TA, editor. Presumed histoplasma chorioretinitis: case presented at the Verhoeff Society Meeting, April 23-24, 1977.
- [683] Roth AM. *Histoplasma capsulatum* in the presumed ocular histoplasmosis syndrome. *Am J Ophthalmol* 1977;84:293-8.
- [684] Irvine AR, Spencer WH, Hogan MJ, et al. Presumed chronic ocular histoplasmosis syndrome: a clinical-pathologic case report. *Trans Am Ophthalmol Soc* 1976;74:91-106.
- [685] Meredith TA, Green WR, Key SN, et al. Ocular histoplasmosis: Clinicopathologic correlation of 3 cases. *Surv Ophthalmol* 1977;22:189-205.
- [686] Sheffer A, Green WR, Fine SL, et al. Presumed ocular histoplasmosis syndrome; a clinicopathologic correlation of a treated case. *Arch Ophthalmol* 1980;98:335-40.
- [687] Macy JI, Minckler DS, Smith RE. Experimental inflammatory serous detachment of the retina. *Arch Ophthalmol* 1980;98:2217-9.
- [688] Smith JL, Singer JA. Experimental ocular histoplasmosis. III. Experimentally produced retinal and choroidal lesions. *Am J Ophthalmol* 1964;58:413-23.
- [689] Smith JL, Singer JA. Experimental ocular histoplasmosis. VI. Fluorescein fundus photographs of choroiditis in the primate. *Am J Ophthalmol* 1964;58:1021-6.
- [690] Smith RE, Macy JI, Parrett C, et al. Variations in acute multifocal histoplasmic choroiditis in the primate. *Invest Ophthalmol Vis Sci* 1978;17:1005-18.
- [691] Smith RE, O'Connor GR, Halde CH, et al. Clinical course in rabbits after experimental induction of ocular histoplasmosis. *Am J Ophthalmol* 1973;76:284-93.
- [692] Wong VG. Focal choroidopathy in experimental ocular histoplasmosis. *Trans Am Ophthalmol Soc* 1972;70:615-30.
- [693] Smith RE, Ganley JP. An epidemiologic study of presumed ocular histoplasmosis. *Trans Am Acad Ophthalmol Otolaryngol* 1971;75:994-1005.
- [694] Feman SS, Tilford RH. Ocular findings in patients with histoplasmosis. *JAMA* 1985;253:2534-7.
- [695] Davidorf FH, Anderson JD. Ocular lesions in the Earth Day histoplasmosis epidemic. *Trans Am Acad Ophthalmol Otolaryngol* 1974;78:OP876-OP881.
- [696] Ellis FD, Schlaegel Jr TF. The geographic localization of presumed histoplasmic choroiditis. *Am J Ophthalmol* 1973;75:953-6.
- [697] Feman SS, Podgorski SF, Penn MK. Blindness from presumed ocular histoplasmosis in Tennessee. *Ophthalmology* 1982;89:1295-8.
- [698] Ganley JP, Smith RE, Knox DL, et al. Presumed ocular histoplasmosis. III. Epidemiologic characteristics of people with peripheral atrophic scars. *Arch Ophthalmol* 1973;89:116-9.
- [699] Giles CL, Falls HF. Amphotericin B therapy in the treatment of presumed *Histoplasma* chorioretinitis: a further appraisal. *Trans Am Ophthalmol Soc* 1967;65:136-45.
- [700] Braunstein RA, Rosen DA, Bird AC. Ocular histoplasmosis syndrome in the United Kingdom. *Br J Ophthalmol* 1974;58:893-7.
- [701] Macular Photocoagulation Study Group. Argon laser photocoagulation for ocular histoplasmosis; results of a randomized clinical trial. *Arch Ophthalmol* 1983;101:1347-57.
- [702] Macular Photocoagulation Study Group. Persistent and recurrent neovascularization after krypton laser photocoagulation for neovascular lesions of ocular histoplasmosis. *Arch Ophthalmol* 1989;107:344-52.
- [703] Macular Photocoagulation Study Group. Laser photocoagulation for juxtafoveal choroidal neovascularization; five-year results from randomized clinical trials. *Arch Ophthalmol* 1994;112:500-9.
- [704] Klein ML, Fine SL, Patz A. Results of argon laser photocoagulation in presumed ocular histoplasmosis. *Am J Ophthalmol* 1978;86:211-7.
- [705] Maumenee AE, Ryan SJ. Photocoagulation of disciform macular lesions in the ocular histoplasmosis syndrome. *Am J Ophthalmol* 1973;75:13-16.
- [706] Okun E. Photocoagulation treatment of presumed histoplasmic choroidopathy. *Trans Am Ophthalmol Soc* 1972;70:467-89.
- [707] Patz A, Fine SL. Argon laser photocoagulation in ocular

- histoplasmosis syndrome. *Int Ophthalmol Clin* 1976;16:45–57.
- [708] Patz A, Ticho U, Kelley JS. Some observations on argon laser photocoagulation for the presumed histoplasmosis syndrome. *Mod Probl Ophthalmol* 1974;12:288–94.
- [709] Sabates FN, Lee KY, Ziemianski MC. A comparative study of argon and krypton laser photocoagulation in the treatment of presumed ocular histoplasmosis syndrome. *Ophthalmology* 1982;89:729–34.
- [710] Schlaegel Jr TF, Cofield DD, Clark G, et al. Photocoagulation and other therapy for histoplasmic choroiditis. *Trans Am Acad Ophthalmol Otolaryngol* 1968;72:355–63.
- [711] Watzke RC, Leaverton PE. Light coagulation in presumed histoplasmic choroiditis; a controlled clinical study. *Arch Ophthalmol* 1971;86:127–32.
- [712] Yassur Y, Gilad E, Ben-Sira I. Treatment of macular subretinal neovascularization with the red-light krypton laser in presumed ocular histoplasmosis syndrome. *Am J Ophthalmol* 1981;91:172–6.
- [713] Burgess DB. Ocular histoplasmosis syndrome. *Ophthalmology* 1986;93:967–8.
- [714] Macher A, Rodrigues MM, Kaplan W, et al. Disseminated bilateral chorioretinitis due to *Histoplasma capsulatum* in a patient with the acquired immunodeficiency syndrome. *Ophthalmology* 1985;92:1159–64.
- [715] Berger AS, Kaplan HJ. Clinical experience with the surgical removal of subfoveal neovascular membranes; short-term postoperative results. *Ophthalmology* 1992;99:969–76.
- [716] Saxe SJ, Grossniklaus HE, Lopez PF, et al. Ultrastructural features of surgically excised subretinal neovascular membranes in the ocular histoplasmosis syndrome. *Arch Ophthalmol* 1993;111:88–95.
- [717] Thomas MA, Kaplan HJ. Surgical removal of subfoveal neovascularization in the presumed ocular histoplasmosis syndrome. *Am J Ophthalmol* 1991;111:1–7.
- [718] Wind BE, Sobol WM. Surgical management of a long-standing subfoveal neovascular membrane secondary to ocular histoplasmosis. *Ophthalmic Surg* 1993;24:36–9.
- [719] Hawkins BS, Bressler NM, Bressler SB, et al. Surgical removal vs observation for subfoveal choroidal neovascularization, either associated with the ocular histoplasmosis syndrome or idiopathic: I. Ophthalmic findings from a randomized clinical trial: Submacular Surgery Trials (SST) Group H Trial: SST Report No. 9. *Arch Ophthalmol* 2004;122:1597–611.
- [720] Berger AS, Conway M, Del Priore LV, et al. Submacular surgery for subfoveal choroidal neovascular membranes in patients with presumed ocular histoplasmosis. *Arch Ophthalmol* 1997;115:991–6.
- [721] Ringwald A. [PDT (photodynamic therapy) treatment of choroidal neovascularisations (CNV) associated with presumed ocular histoplasmosis syndrome (POHS)]. *Klin Monbl Augenheilkd* 2010;227:507–9.
- [722] Rosenfeld PJ, Saperstein DA, Bressler NM, et al. Photodynamic therapy with verteporfin in ocular histoplasmosis: uncontrolled, open-label 2-year study. *Ophthalmology* 2004;111:1725–33.
- [723] Ehrlich R, Ciulla TA, Maturi R, et al. Intravitreal bevacizumab for choroidal neovascularization secondary to presumed ocular histoplasmosis syndrome. *Retina* 2009;29:1418–23.
- [724] Schadlu R, Blinder KJ, Shah GK, et al. Intravitreal bevacizumab for choroidal neovascularization in ocular histoplasmosis. *Am J Ophthalmol* 2008;145:875–8.
- [725] Bass EB, Gilson MM, Mangione CM, et al. Surgical removal vs observation for idiopathic or ocular histoplasmosis syndrome-associated subfoveal choroidal neovascularization: Vision Preference Value Scale findings from the randomized SST Group H Trial: SST Report No. 17. *Arch Ophthalmol* 2008;126:1626–32.
- [726] Feman SS, Pritchett P, Johns K, et al. Intraocular tumor from disseminated histoplasmosis. *South Med J* 1991;84:780–1.
- [727] Gass JDM. Differential diagnosis of intraocular tumors; a stereoscopic presentation. St. Louis: CV Mosby; 1974. p. 196–197.
- [728] Jampel HD, Schachat AP, Conway B, et al. Retinal pigment epithelial hyperplasia assuming tumor-like proportions; report of two cases. *Retina* 1986;6:105–12.
- [729] Makley Jr TA, Davidorf FH, Chambers RB, et al. Massive intraocular hemorrhage in the ocular histoplasmosis syndrome. *Contemp Ophthalmic Forum* 1987;5:55–65.
- [730] Capone Jr A, Wallace RT, Meredith TA. Symptomatic choroidal neovascularization in blacks. *Arch Ophthalmol* 1994;112:1091–7.
- [731] MacCumber MW, Dastgheib K, Bressler NM, et al. Clinicopathologic correlation of the multiple recurrent serosanguineous retinal pigment epithelial detachments syndrome. *Retina* 1994;14:143–52.
- [732] Perkovich BT, Zakov ZN, Berlin LA, et al. An update on multiple recurrent serosanguineous retinal pigment epithelial detachments in black women. *Retina* 1990;10:18–26.
- [733] Byeon SH, Lee SC, Oh HS, et al. Incidence and clinical patterns of polypoidal choroidal vasculopathy in Korean patients. *Jpn J Ophthalmol* 2008;52:57–62.
- [734] de Mello PC, Brasil OF, Maia HS, et al. Prevalence and epidemiologic features of polypoidal choroidal vasculopathy in southeastern Brazil. *Eye* 2007;21:1247.
- [735] Obata R, Yanagi Y, Kami J, et al. Polypoidal choroidal vasculopathy and retinochoroidal anastomosis in Japanese patients eligible for photodynamic therapy for exudative age-related macular degeneration. *Jpn J Ophthalmol* 2006;50:354–60.
- [736] Yuzawa M, Mori R, Kawamura A. The origins of polypoidal choroidal vasculopathy. *Br J Ophthalmol* 2005;89:602–7.
- [737] Hikichi T, Ohtsuka H, Higuchi M, et al. Causes of macular serous retinal detachments in Japanese patients 40 years and older. *Retina* 2009;29:395–404.
- [738] Ahuja RM, Downes SM, Stanga PE, et al. Polypoidal choroidal vasculopathy and central serous chorioretinopathy. *Ophthalmology* 2001;108:1009–10.
- [739] Yannuzzi LA, Freund KB, Goldbaum M, et al. Polypoidal choroidal vasculopathy masquerading as central serous chorioretinopathy. *Ophthalmology* 2000;107:767–77.
- [740] Ojima Y, Hangai M, Sakamoto A, et al. Improved visualization of polypoidal choroidal vasculopathy lesions using spectral-domain optical coherence tomography. *Retina* 2009;29:52–9.
- [741] Ozawa S, Ishikawa K, Ito Y, et al. Differences in macular morphology between polypoidal choroidal vasculopathy and exudative age-related macular degeneration detected by optical coherence tomography. *Retina* 2009;29:793–802.
- [742] Kondo N, Honda S, Kuno S, et al. Coding variant I62V in the complement factor H gene is strongly associated with polypoidal choroidal vasculopathy. *Ophthalmology* 2009;116:304–10.
- [743] Aiello PD, Trautmann JC, McPhee TJ, et al. Visual prognosis in giant cell arteritis. *Ophthalmology* 1993;100:550–5.
- [744] Kinyoun JL, Kalina RE. Visual loss from choroidal ischemia. *Am J Ophthalmol* 1986;101:650–6.
- [745] McLeod D, Oji EO, Kohner EM, et al. Fundus signs in temporal arteritis. *Br J Ophthalmol* 1978;62:591–4.
- [746] Parrish R, Gass JDM, Anderson DR. Outer retina ischemic infarction—a newly recognized complication of cataract extraction and closed vitrectomy. Part 2. An animal model. *Ophthalmology* 1982;89:1472–7.
- [747] Quillen DA, Cantore WA, Schwartz SR, et al. Choroidal



- nonperfusion in giant cell arteritis. *Am J Ophthalmol* 1993;116:171-5.
- [748] Slavlin ML, Barondes MJ. Visual loss caused by choroidal ischemia preceding anterior ischemic optic neuropathy in giant cell arteritis. *Am J Ophthalmol* 1994;117:81-6.
- [749] Newman NM, Hoyt WF, Spencer WH. Macula-sparing monocular blackouts; clinical and pathologic investigations of intermittent choroidal vascular insufficiency in a case of periarteritis nodosa. *Arch Ophthalmol* 1974;91:367-70.
- [750] van Meurs JC. Choroidal filling patterns in sickle cell patients. *Int Ophthalmol* 1991;15:49-52.
- [751] Straatsma BR, Zimmerman LE, Gass JDM. Phycomycosis; a clinicopathologic study of fifty-one cases. *Lab Invest* 1962;11:963-85.
- [752] Gass JDM. Ocular manifestations of acute mucormycosis. *Arch Ophthalmol* 1961;65:226-37.
- [753] Gass JDM. Acute orbital mucormycosis; report of two cases. *Arch Ophthalmol*. 1961;65:214-20.
- [754] Qingli L, Orcutt JC, Seifter LS. Orbital mucormycosis with retinal and ciliary artery occlusions. *Br J Ophthalmol* 1989; 73:680-3.
- [755] McLean EB. Inadvertent injection of corticosteroid into the choroidal vasculature. *Am J Ophthalmol* 1975;80:835-7.
- [756] Thomas EL, Laborde RP. Retinal and choroidal vascular occlusion following intralesional corticosteroid injection of a chalazion. *Ophthalmology* 1986;93:405-7.
- [757] Raymond LA, Sacks JG, Choromokos E, et al. Short posterior ciliary artery insufficiency with hyperthermia (Uhthoff's symptom). *Am J Ophthalmol* 1980;90:619-23.
- [758] Rodriguez A, Rodriguez FJ, Betancourt F. Presumed occlusion of posterior ciliary arteries following central retinal vein decompression surgery. *Arch Ophthalmol* 1994;112:54-6.
- [759] Mames RN, Friedman SM, Brown GC. Distribution of the posterior ciliary arteries revealed after vascular occlusions; a case report. *Retina* 1992;12:367-9.
- [760] DeLaey JJ. Fluoro-angiographic study of the choroid in man. *Doc Ophthalmol* 1978;45:78-112.
- [761] DeLaey JJ. Fluorescein angiography of the choroid in health and disease. *Int Ophthalmol* 1983;6:125-38.
- [762] Cohen SMZ, Fine SL, Murphy RP, et al. Transient delay in choroidal filling after krypton red laser photocoagulation for choroidal neovascular membranes. *Retina* 1983;3:284-90.
- [763] Goldbaum MH, Galinos SO, Apple D, et al. Acute choroidal ischemia as a complication of photocoagulation. *Arch Ophthalmol* 1976;94:1025-35.
- [764] Johnson R, Schatz H. Delayed choroidal vascular filling after krypton laser photocoagulation. *Am J Ophthalmol* 1985;99:154-8.
- [765] Amalric P. Le territoire chorio-rétinien de l'artère ciliaire longue postérieure. Etude clinique. *Bull Soc Ophtalmol Fr* 1963;63:342-51.
- [766] Amalric PM. Choroidal vessel occlusive syndromes—clinical aspects. *Trans Am Acad Ophthalmol Otolaryngol* 1973;77:OP291-OP299.
- [767] Buettner H, Machemer R, Charles S, et al. Experimental deprivation of choroidal blood flow; retinal morphology, early receptor potential, and electroretinography. *Am J Ophthalmol* 1973;75:943-52.
- [768] Foulds WS, Lee WR, Taylor WOG. Clinical and pathological aspects of choroidal ischaemia. *Trans Ophthalmol Soc UK* 1971;91:323-41.
- [769] Gaudric A. Les occlusions vasculaires choroïdiennes aiguës. In: Ducournau D, Gaudric A, Grange J-D, editors. *La vascularisation choroïdienne*. *Bull Soc Ophtalmol Fr Rapport Annuel Numéro spécial* 1981. p. 67-133.
- [770] Gaudric A, Coscas G, Bird AC. Choroidal ischemia. *Am J Ophthalmol* 1982;94:489-98.
- [771] Hayreh SS. Segmental nature of the choroidal vasculature. *Br J Ophthalmol* 1975;59:631-48.
- [772] Hayreh SS, editor. *Retina*, 2; 1982 p. 191-2.
- [773] Hayreh SS, Baines JAB. Occlusion of the posterior ciliary artery. I. Effects on choroidal circulation. *Br J Ophthalmol* 1972;56:719-35.
- [774] Spolaore R, Gaudric A, Coscas G, et al. Acute sectorial choroidal ischemia. *Am J Ophthalmol* 1984;98:707-16.
- [775] Diamond JG, Kaplan HJ. Uveitis: Effect of vitrectomy combined with lensectomy. *Ophthalmology* 1979;86:1320-7.
- [776] Gass JDM, Parrish R. Outer retinal ischemic infarction—a newly recognized complication of cataract extraction and closed vitrectomy. I. A case report. *Ophthalmology* 1982;89:1467-71.
- [777] Hollenhorst RW, Svien HJ, Benoit CF. Unilateral blindness occurring during anesthesia for neurosurgical operations. *Arch Ophthalmol* 1954;52:819-30.
- [778] Rosenblum PD, Michels RG, Stark WJ, et al. Choroidal ischemia after extracapsular cataract extraction by phacoemulsification. *Retina* 1981;1:263-70.
- [779] West J, Askin G, Clarke M, et al. Loss of vision in one eye following scoliosis surgery. *Br J Ophthalmol* 1990;74:243-4.
- [780] Lieb WE, Flaharty PM, Sergott RC, et al. Color Doppler imaging provides accurate assessment of orbital blood flow in occlusive carotid artery disease. *Ophthalmology* 1991;98:548-52.
- [781] Azar P, Smith RS, Greenberg MH. Ocular findings in disseminated intravascular coagulation. *Am J Ophthalmol* 1974;78:493-6.
- [782] Cogan DG. Ocular involvement in disseminated intravascular coagulopathy. *Arch Ophthalmol* 1975;93:1-8.
- [783] Cogan DG. Fibrin clots in the choriocapillaris and serous detachment of the retina. *Ophthalmologica* 1976;172:298-307.
- [784] Klein BA. Ischemic infarcts of the choroid (Elschnig spots); a cause of retinal separation in hypertensive disease with renal insufficiency. A clinical and histopathologic study. *Am J Ophthalmol* 1968;66:1069-74.
- [785] Morse PH. Elschnig's spots and hypertensive choroidopathy. *Am J Ophthalmol* 1968;66:844-52.
- [786] Ortiz JM, Yanoff M, Cameron JD, et al. Disseminated intravascular coagulation in infancy and in the neonate; ocular findings. *Arch Ophthalmol* 1982;100:1413-5.
- [787] Stropes LL, Luft FC. Hypertensive crisis with bilateral bullous retinal detachment. *JAMA* 1977;238:1948-9.
- [788] Beck RW, Gamel JW, Willcourt RJ, et al. Acute ischemic optic neuropathy in severe preeclampsia. *Am J Ophthalmol* 1980;90:342-6.
- [789] Chaîne G, Attali P, Gaudric A, et al. Ocular fluorophotometric and angiographic findings in toxemia of pregnancy. *Arch Ophthalmol* 1986;104:1632-5.
- [790] Fastenberg DM, Fetkenhour CL, Choromokos E, et al. Choroidal vascular changes in toxemia of pregnancy. *Am J Ophthalmol* 1980;89:362-8.
- [791] Jaffé G, Schatz H. Ocular manifestations of preeclampsia. *Am J Ophthalmol* 1987;103:309-15.
- [792] Kenny GS, Cerasoli JR. Color fluorescein angiography in toxemia of pregnancy. *Arch Ophthalmol* 1972;87:383-8.
- [793] Kronenberg EW. Toxemic retinopathy of pregnancy with special consideration of retinal detachment as complication of pregnancy toxicosis. *Ned Tijdschr Geneesk* 1956;100:331.
- [794] Mabie WC, Ober RR. Fluorescein angiography in toxemia of pregnancy. *Br J Ophthalmol* 1980;64:666-71.
- [795] Schultz JF, O'Brien CS. Retinal changes in hypertensive

- toxemia of pregnancy; a report of 47 cases. *Am J Ophthalmol* 1938;21:767-74.
- [796] Hoines J, Buettner H. Ocular complications of disseminated intravascular coagulation (DIC) in abruptio placentae. *Retina* 1989;9:105-9.
- [797] Gass JDM, Slamovits TL, Fuller DG, et al. Posterior chorioretinopathy and retinal detachment after organ transplantation. *Arch Ophthalmol* 1992;110:1717-22.
- [798] Snyers B, Kestens C. Choroïdite séreuse centrale après transplantation rénale. *Bull Soc Belge Ophtalmol* 1990;239:87-101.
- [799] Diddie KR, Aronson AJ, Ernest JT. Chorioretinopathy in a case of systemic lupus erythematosus. *Trans Am Ophthalmol Soc* 1977;75:122-31.
- [800] Gold DH, Morris DA, Henkind P. Ocular findings in systemic lupus erythematosus. *Br J Ophthalmol* 1972;56:800-4.
- [801] Googe Jr JM, Brady SE, Argyle JC, et al. Choroiditis in infantile periarteritis nodosa. *Arch Ophthalmol* 1985;103:81-3.
- [802] Martin VAF. Disseminated intravascular coagulopathy. *Trans Ophthalmol Soc UK* 1978;98:506-7.
- [803] Kinyoun JL, Kalina RE, Klein ML. Choroidal involvement in systemic necrotizing vasculitis. *Arch Ophthalmol* 1987;105:939-42.
- [804] Jampol LM, Lahav M, Albert DM, et al. Ocular clinical findings and basement membrane changes in Goodpasture's syndrome. *Am J Ophthalmol* 1975;79:452-63.
- [805] Snir M, Cohen S, Ben-Sira I, et al. Retinal manifestations of thrombocytopenic purpura (TTP) following use of contraceptive treatment. *Ann Ophthalmol* 1985;17:109-12.
- [806] Benson DO, Fitzgibbons JF, Goodnight SH. The visual system in thrombotic thrombocytopenic purpura. *Ann Ophthalmol* 1980;12:413-7.
- [807] Lewellen Jr DR, Singerman LJ. Thrombotic thrombocytopenic purpura with optic disk neovascularization, vitreous hemorrhage, retinal detachment, and optic atrophy. *Am J Ophthalmol* 1980;89:840-4.
- [808] Percival SPB. The eye and Moschcowitz's disease (thrombotic thrombocytopenic purpura); a review of 182 cases. *Trans Ophthalmol Soc UK* 1970;90:375-82.
- [809] Percival SPB. Ocular findings in thrombotic thrombocytopenic purpura (Moschcowitz's disease). *Br J Ophthalmol* 1970;54:73-8.
- [810] Samples JR, Buettner H. Ocular involvement in disseminated intravascular coagulation (DIC). *Ophthalmology* 1983;90:914-6.
- [811] Stefani FH, Brandt F, Pielsticker K. Periarteritis nodosa and thrombotic thrombocytopenic purpura and serous retinal detachment in siblings. *Br J Ophthalmol* 1978;62:402-7.
- [812] Vesconi S, Langer M, Rossi E, et al. Thrombotic thrombocytopenic purpura during oral contraceptive treatment. *Thromb Haemost* 1978;40:563-4.
- [813] Wyszynski RE, Frank KE, Grossniklaus HE. Bilateral retinal detachments in thrombotic thrombocytopenic purpura. *Graefes Arch Clin Exp Ophthalmol* 1988;226:501-4.
- [814] Yamaguchi K, Abe S, Shiono T, et al. Macular choroidal occlusion in dysplasminogenemia. *Retina* 1991;11:423-5.
- [815] Patchett RB, Wilson WB, Ellis PP. Ophthalmic complications with disseminated intravascular coagulation. *Br J Ophthalmol* 1988;72:377-9.
- [816] MacCumber MW, Flower RW, Langham ME. Ischemic hypertensive choroidopathy; fluorescein angiography, indocyanine green videoangiography, and measurement of pulsatile blood flow. *Arch Ophthalmol* 1993;111:704-5.
- [817] de Venecia G, Wallow I, Houser D, et al. The eye in accelerated hypertension. I. Elschnig's spots in nonhuman primates. *Arch Ophthalmol* 1980;98:913-8.
- [818] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 124.
- [819] Gass JDM, Pautler SE. Toxemia of pregnancy pigment epitheliopathy masquerading as a heredomacular dystrophy. *Trans Am Ophthalmol Soc* 1985;83:114-30.
- [820] Gitter KA, Houser BP, Sarin LK, et al. Toxemia of pregnancy; an angiographic interpretation of fundus changes. *Arch Ophthalmol* 1968;80:449-54.
- [821] Oliver M, Uchenik D. Bilateral exudative retinal detachment in eclampsia without hypertensive retinopathy. *Am J Ophthalmol* 1980;90:792-6.
- [822] Saito Y, Omoto T, Fukuda M. Lobular pattern of choriocapillaris in pre-eclampsia with aldosteronism. *Br J Ophthalmol* 1990;74:702-3.
- [823] Talbert LM, Blatt PM. Disseminated intravascular coagulation in obstetrics. *Clin Obstet Gynecol* 1979;22:889-900.
- [824] Burke JP, Whyte I, MacEwen CJ. Bilateral serous retinal detachments in the HELLP syndrome. *Acta Ophthalmol* 1989;67:322-4.
- [825] Kirkpatrick CA. The HELLP syndrome. *Acta Clin Belg*. 2010;65:91-7.
- [826] Keiser SD, Owens MY, Parrish MR, et al. HELLP Syndrome with and without Eclampsia. *Am J Perinatol* 2010 [in press]
- [827] Wada Y, Sakamaki Y, Kobayashi D, et al. HELLP syndrome, multiple liver infarctions, and intrauterine fetal death in a patient with systemic lupus erythematosus and antiphospholipid syndrome. *Intern Med* 2009;48:1555-8.
- [828] Karaguzel H, Guven S, Karalezli A, et al. Bilateral serous retinal detachment in a woman with HELLP syndrome and retinal detachment. *J Obstet Gynaecol* 2009;29:246-8.
- [829] Stewart MW, Brazis PW, Guier CP, et al. Purtscher-like retinopathy in a patient with HELLP syndrome. *Am J Ophthalmol* 2007;143:886-7.
- [830] Murphy MA, Ayazifar M. Permanent visual deficits secondary to the HELLP syndrome. *J NeuroOphthalmol* 2005;25:122-7.
- [831] Tranos PG, Wickremasinghe SS, Hundal KS, et al. Bilateral serous retinal detachment as a complication of HELLP syndrome. *Eye (Lond)* 2002;16:491-2.
- [832] Gonzalvo FJ, Abecia E, Pinilla I, et al. Central retinal vein occlusion and HELLP syndrome. *Acta Ophthalmol Scand* 2000;78:596-8.
- [833] Gupta LY, Mansour SE. Bilateral bullous retinal detachment as a complication of the HELLP syndrome. *Can J Ophthalmol* 1994;29:242-5.
- [834] Leff SR, Yarian DL, Masciulli L, et al. Vitreous haemorrhage as a complication of HELLP syndrome. *Br J Ophthalmol* 1990;74:498.
- [835] Bussen S, Bussen D. Influence of the vascular endothelial growth factor on the development of severe pre-eclampsia or HELLP syndrome. *Arch Gynecol Obstet* 2010. [in press]
- [836] Rowe PA, Mansfield DC, Dutton GN. Ophthalmic features of fourteen cases of Goodpasture's syndrome. *Nephron* 1994;68:52-6.
- [837] Boucher MC, el Toukhy EA, Cormier G. Bilateral serous retinal detachments associated with Goodpasture's syndrome. *Can J Ophthalmol* 1998;33:46-9.
- [838] Jampol LM, Lahov M, Albert DM, et al. Ocular clinical findings and basement membrane changes in Goodpasture's syndrome. *Am J Ophthalmol* 1975;79:452-63.
- [839] Chiquet C, Lumbroso L, Denis P, et al. Acute posterior multifocal placoid pigment epitheliopathy associated with Wegener's granulomatosis. *Retina* 1999;19:309-13.
- [840] Wang M, Khurana RN, Satta SR. Central retinal vein occlusion in Wegener's granulomatosis without retinal vasculitis. *Br J*

- Ophthalmol 2006;90:1435-6.
- [841] Venkatesh P, Chawla R, Tewari HK. Hemiretinal vein occlusion in Wegener's granulomatosis. *Eur J Ophthalmol* 2003;13:722-5.
- [842] Iida T, Spaide RF, Kantor J. Retinal and choroidal arterial occlusion in Wegener's granulomatosis. *Am J Ophthalmol* 2002;133:151-2.
- [843] Kinyoun JL. APMPE associated with Wegener's granulomatosis. *Retina* 2000;20:419-20.
- [844] Janknecht P, Mittlviethaus H, Löffler KU. Sclerochoroidal granuloma in Wegener's granulomatosis simulating a uveal melanoma. *Retina* 1995;15:150-3.
- [845] Agostini HT, Brautigam P, Löffler KU. Subretinal tumour in a patient with a limited form of Wegener's granulomatosis. *Acta Ophthalmol Scand* 1995;73:460-3.
- [846] Tanihara H, Nakayama Y, Honda Y. Wegener's granulomatosis with rapidly progressive retinitis and anterior uveitis. *Acta Ophthalmol (Copenh)* 1993;71:853-5.
- [847] Samuelson TW, Margo CE. Protracted uveitis as the initial manifestation of Wegener's granulomatosis. *Arch Ophthalmol* 1990;108:478-9.
- [848] Greenberger MH. Central retinal artery closure in Wegener's granulomatosis. *Am J Ophthalmol* 1967;63:515-6.
- [849] Gaudric A, Sterkers M, Coscas G. Retinal detachment after choroidal ischemia. *Am J Ophthalmol* 1987;104:364-72.
- [850] Wilson CA, Royster AJ, Tiedemann JS, et al. Exudative retinal detachment after photodynamic injury. *Arch Ophthalmol* 1991;109:125-34.
- [851] Ho AC, Benson WE, Wong J. Unusual immunogammopathy maculopathy. *Ophthalmology* 2000;107:1099-103.
- [852] Brody JM, Butrus SI, Ashraf MF, et al. Multiple myeloma presenting with bilateral exudative macular detachments. *Acta Ophthalmol Scand* 1995;73:81-2.
- [853] Quhill F, Khan I, Rashid A. Bilateral serous macular detachments in Waldenstrom's macroglobulinaemia. *Postgrad Med J* 2009;85:382.
- [854] Okada K, Yamamoto S, Tsuyama Y, et al. Case of POEMS syndrome associated with bilateral macular detachment resolved by autologous peripheral blood stem cell transplantation. *Jpn J Ophthalmol* 2007;51:237-8.
- [855] Leys A, Vandenberghe P. Serous macular detachments in a patient with IgM paraproteinemia: an optical coherence tomography study. *Arch Ophthalmol* 2001;119:911-3.
- [856] Ogata N, Ida H, Takahashi K, et al. Occult retinal pigment epithelial detachment in hyperviscosity syndrome. *Ophthalmic Surg Lasers* 2000;31:248-52.
- [857] Cohen SM, Kokame GT, Gass JD. Paraproteinemias associated with serous detachments of the retinal pigment epithelium and neurosensory retina. *Retina* 1996;16:467-73.
- [858] Berta A, Beck P, Mikita J. IgM paraprotein in the subretinal fluid of a patient with recurrent retinal detachment and Waldenstrom's macroglobulinaemia. *Acta Med Hung* 1985;42:179-86.
- [859] Omoti AE, Omoti CE. Ophthalmic manifestations of multiple myeloma. *West Afr J Med* 2007;26:265-8.
- [860] Thomas EL, Olk RJ, Markman M, et al. Irreversible visual loss in Waldenstrom's macroglobulinaemia. *Br J Ophthalmol* 1983;67:102-6.
- [861] Wiaux C, Landau K, Borruat FX. Unusual cause of bilateral optic disc swelling: POEMS syndrome. *Klin Monatsbl Augenheilkd* 2007;224:334-6.
- [862] Chong DY, Comer GM, Trobe JD. Optic disc edema, cystoid macular edema, and elevated vascular endothelial growth factor in a patient with POEMS syndrome. *J Neuroophthalmol* 2007;27:180-3.
- [863] Imai H, Kusuhara S, Nakanishi Y, et al. A case of POEMS syndrome with cystoid macular edema. *Am J Ophthalmol* 2005;139:563-6.
- [864] Wong VA, Wade NK. POEMS syndrome: an unusual cause of bilateral optic disk swelling. *Am J Ophthalmol* 1998;126:452-4.
- [865] Davies EWG. Annular serous choroidal detachment. *Mod Probl Ophthalmol* 1979;20:2-5.
- [866] De Bustros S, Michels RG, Rice TA, et al. Treatment of idiopathic exudative retinal detachment. *Retina* 1984;4:158-62.
- [867] De Laey JJ, Laender R, Verbraeken H. Impairment of choroidal venous outflow: possible cause of spontaneous choroidal detachment? *Mod Probl Ophthalmol* 1979;20:16-22.
- [868] Gamringer H, Schreck E, Wollensak J. Zur Pathogenese and Therapie der Cyclitis anularis exsudativa pseudotumorosa. *Klin Monatsbl Augenheilkd* 1959;135:638-46.
- [869] Gass JDM, Jallow S. Idiopathic serous detachment of the choroid, ciliary body, and retina (uveal effusion syndrome). *Ophthalmology* 1982;89:1018-32.
- [870] Geyer O, Godel V, Lazar M. Hypotony as a late complication of extracapsular cataract extraction. *Am J Ophthalmol* 1983;96:112-3.
- [871] Pollalis S, Tragakis M. Idiopathic choroidal detachment. *Mod Probl Ophthalmol* 1979;20:23-9.
- [872] Schepens CL, Brockhurst RJ. Uveal effusion. I. Clinical picture. *Arch Ophthalmol*. 1963;70:189-202.
- [873] Stallard HB. Annular peripheral retinal detachment. *Br J Ophthalmol* 1954;38:115-8.
- [874] Verhoeff FH, Waite JH. Separation of the choroid, with report of a spontaneous case. *Trans Am Ophthalmol Soc* 1925;23:120-39.
- [875] von Graefe A. Zur Diagnose des beginnenden intraocularen Krebses. *Albrecht von Graefes Arch Ophthalmol* 1858;4:218-29.
- [876] Wilson RS, Hanna C, Morris MD. Idiopathic chorioretinal effusion: an analysis of extracellular fluids. *Ann Ophthalmol* 1977;9:647-53.
- [877] Brockhurst RJ, Lam K-W. Uveal effusion. II. Report of a case with analysis of subretinal fluid. *Arch Ophthalmol* 1973;90:399-401.
- [878] Dawidek GMB, Kinsella FM, Pyott A, et al. Delayed ciliochoroidal detachment following intraocular lens implantation. *Br J Ophthalmol* 1991;75:572-4.
- [879] Sato S, Okubo A, Sugahara M. Biochemical study of subretinal fluid. I. Uveal effusion. *Jpn J Clin Ophthalmol* 1981;35:1185-7.
- [880] Brockhurst RJ. Vortex vein decompression for nanophthalmic uveal effusion. *Arch Ophthalmol* 1980;98:1987-90.
- [881] Singh OS, Simmons RJ, Brockhurst RJ, et al. Nanophthalmos; a perspective on identification and therapy. *Ophthalmology* 1982;89:1006-12.
- [882] Forrester JV, Lee WR, Kerr PR, et al. The uveal effusion syndrome and trans-scleral flow. *Eye* 1990;4:354-65.
- [883] Tagami N, Uyama M, Yamada K, et al. Histological observations on the sclera in uveal effusion. *J Jpn Ophthalmol Soc* 1993; 97:268-74.
- [884] Ward RC, Gragoudas ES, Pon DM, et al. Abnormal scleral findings in uveal effusion syndrome. *Am J Ophthalmol* 1988;106:139-46.
- [885] Fukuchi T, Sawaguchi S, Honda T, et al. Proteoglycan abnormality in a nanophthalmos sclera. *J Jpn Ophthalmol Soc* 1993;97:260-7.
- [886] Shiono T, Shoji A, Mutoh T, et al. Abnormal sclerocytes in nanophthalmos. *Graefes Arch Clin Exp Ophthalmol* 1992;230:348-51.
- [887] Stewart III DH, Streeten BW, Brockhurst RJ, et al. Abnormal scleral collagen in nanophthalmos; an ultrastructural study. *Arch Ophthalmol* 1991;109:1017-25.
- [888] Yue BYJT, Duvall J, Goldberg MF, et al. Nanophthalmic

- sclera; morphologic and tissue culture studies. *Ophthalmology* 1986;93:534-41.
- [889] Yue BYJT, Kurosawa A, Duvall J, et al. Nanophthalmic sclera; fibronectin studies. *Ophthalmology* 1988;95:56-60.
- [890] Gass JDM. Uveal effusion syndrome: A new hypothesis concerning pathogenesis and technique of surgical treatment. *Trans Am Ophthalmol Soc* 1983;81:246-60.
- [891] Vine AK. Uveal effusion in Hunter's syndrome; evidence that abnormal sclera is responsible for the uveal effusion syndrome. *Retina* 1986;6:57-60.
- [892] Brockhurst RJ. Nanophthalmos with uveal effusion; a new clinical entity. *Arch Ophthalmol* 1975;93:1289-99.
- [893] Brubaker RF, Pederson JE. Ciliochoroidal detachment. *Surv Ophthalmol* 1983;27:281-9.
- [894] Calhoun Jr FP. The management of glaucoma in nanophthalmos. *Trans Am Ophthalmol Soc* 1975;73:97-119.
- [895] Ryan EA, Zwaan J, Chylack Jr LT. Nanophthalmos with uveal effusion; clinical and embryologic considerations. *Ophthalmology* 1982;89:1013-7.
- [896] Shaffer RN. Discussion of Calhoun EP Jr: The management of glaucoma in nanophthalmos. *Trans Am Ophthalmol Soc* 1975;73:119-20.
- [897] Guyton AC. *Textbook of medical physiology*, 6th ed. Philadelphia: WB Saunders; 1981. p. 373.
- [898] McGetrick JJ, Wilson DG, Dortzbach RK, et al. A search for lymphatic drainage in the monkey orbit. *Arch Ophthalmol* 1989;107:255-60.
- [899] Bill A, Phillips CI. Uveoscleral drainage of aqueous humour in human eyes. *Exp Eye Res* 1971;12:275-81.
- [900] Pederson JE, Discussion of Bellows AR, Chylack Jr LT, Hutchinson BT. Choroidal detachment: clinical manifestation, therapy and mechanism of formation. *Ophthalmology* 1981;88:1114-15.
- [901] Trelstad RL, Silbermann NN, Brockhurst RJ. Nanophthalmic sclera; ultrastructural, histochemical, and biochemical observations. *Arch Ophthalmol* 1982;100:1935-8.
- [902] Wing GL, Schepens CL, Trempe CL, et al. Serous choroidal detachment and the thickened-choroid sign detected by ultrasonography. *Am J Ophthalmol* 1982;94:499-505.
- [903] Peyman GA, Mafee M, Schulman J. Computed tomography in choroidal detachment. *Ophthalmology* 1984;91:156-62.
- [904] Allen KM, Meyers SM, Zegarra H. Nanophthalmic uveal effusion. *Retina* 1988;8:145-7.
- [905] Casswell AG, Gregor ZJ, Bird AC. The surgical management of uveal effusion syndrome. *Eye* 1987;1:115-9.
- [906] Jin JC, Anderson DR. Laser and unsutured sclerotomy in nanophthalmos. *Am J Ophthalmol* 1990;109:575-80.
- [907] Johnson MW, Gass JDM. Surgical management of the idiopathic uveal effusion syndrome. *Ophthalmology* 1990;97:778-85.
- [908] Brockhurst RJ. Cataract surgery in nanophthalmic eyes. *Arch Ophthalmol* 1990;108:965-7.
- [909] Guerry III D, Harbison JW, Wiesinger H. Bilateral choroidal detachment and fluctuating proptosis secondary to bilateral dural arteriovenous fistulas treated with transcranial orbital decompression with resolution: Report of a case. *Trans Am Ophthalmol Soc* 1975;73:64-73.
- [910] Harbison JW, Guerry D, Wiesinger H. Dural arteriovenous fistula and spontaneous choroidal detachment: new cause of an old disease. *Br J Ophthalmol* 1978;62:483-90.
- [911] DeLuise VP, Clark III SW, Smith JLS, et al. Syphilitic retinal detachment and uveal effusion. *Am J Ophthalmol* 1982;94:757-61.
- [912] Sneed SR, Byrne SF, Mieler WF, et al. Choroidal detachment associated with malignant choroidal tumors. *Ophthalmology* 1991;98:963-70.
- [913] Scheider A, Asiyo M, Habersetzer K. Seröse Ablatio retinae unter O2-Therapie bei primärer pulmonaler Hypertonie. *Fortschr Ophthalmol* 1991;88:346-9.
- [914] Bellows AR, Chylack Jr LT, Hutchinson BT. Choroidal detachment; clinical manifestation, therapy and mechanism of formation. *Ophthalmology* 1981;88:1107-15.
- [915] Dotan S, Oliver M. Shallow anterior chamber and uveal effusion after nonpenetrating trauma to the eye. *Am J Ophthalmol* 1982;94:782-4.
- [916] Topilow HW, Ackerman AL. Massive exudative retinal and choroidal detachments following scleral buckling surgery. *Ophthalmology* 1983;90:143-7.
- [917] Ruiz RS, Salmonsens PC. Expulsive choroidal effusion; a complication of intraocular surgery. *Arch Ophthalmol* 1976;94:69-70.
- [918] Savir H. Expulsive choroidal effusion during cataract surgery (in a case with Fuchs' heterochromic cyclitis). *Ann Ophthalmol* 1979;11:113-5.
- [919] Weiter JJ, Brockhurst RJ, Tolentino FI. Uveal effusion following pan-retinal photocoagulation. *Ann Ophthalmol* 1979;11:1723-7.
- [920] MacKay CJ, Shek MS, Carr RE, et al. Retinal degeneration with nanophthalmos, cystic macular degeneration, and angle closure glaucoma; a new recessive syndrome. *Arch Ophthalmol* 1987;105:366-71.
- [921] Krohn J, Bjune C. Uveal effusion and angle-closure glaucoma in primary pulmonary hypertension. *Am J Ophthalmol* 2003;135:705-6.
- [922] Saran BR, Brucker AJ, Bandello F, et al. Familial primary pulmonary hypertension and associated ocular findings. *Retina* 2001;21:34-9.
- [923] Bhan A, Rennie IG, Higenbottam TW. Central retinal vein occlusion associated with primary pulmonary hypertension. *Retina* 2001;21:83-5.
- [924] Akduman L, Del Priore LV, Kaplan HJ, et al. Uveal effusion syndrome associated with primary pulmonary hypertension and vomiting. *Am J Ophthalmol* 1996;121:578-80.
- [925] Van Camp G, Renard M, Verougstraete C, et al. Ophthalmologic complications in primary pulmonary hypertension. *Chest* 1990;98:1543-4.
- [926] Yang S, Jeong J, Kim JG, et al. Progressive venous stasis retinopathy and open-angle glaucoma associated with primary pulmonary hypertension. *Ophthalmic Surg Lasers Imaging* 2006;37:230-3.
- [927] Thomas AQ, Gaddipati R, Newman JH, et al. Genetics of primary pulmonary hypertension. *Clin Chest Med* 2001;22:477-91, ix.
- [928] Mandegar M, Fung YC, Huang W, et al. Cellular and molecular mechanisms of pulmonary vascular remodeling: role in the development of pulmonary hypertension. *Microvasc Res* 2004;68:75-103.
- [929] Launay D, Mouthon L, Hachulla E, et al. Prevalence and characteristics of moderate to severe pulmonary hypertension in systemic sclerosis with and without interstitial lung disease. *J Rheumatol* 2007;34:1005-11.
- [930] Lehrman S, Romano P, Frishman W, et al. Primary pulmonary hypertension and cor pulmonale. *Cardiol Rev* 2002;10:265-78.
- [931] Rudarakanchana N, Trembath RC, Morrell NW. New insights into the pathogenesis and treatment of primary pulmonary hypertension. *Thorax* 2001;56:888-90.
- [932] Lang G, Klepetko W. Lung transplantation for end-stage primary pulmonary hypertension. *Ann Transplant* 2004;9:25-32.
- [933] Trulock EP. Lung transplantation for primary pulmonary hypertension. *Clin Chest Med* 2001;22:583-93.
- [934] Speaker MG, Guerriero PN, Met JA, et al. A case-control study



- of risk factors for intraoperative suprachoroidal expulsive hemorrhage. *Ophthalmology* 1991;98:202–10.
- [935] Kuhn F, Morris R, Mester V. Choroidal detachment and expulsive choroidal hemorrhage. *Ophthalmol Clin North Am* 2001;14:639–50.
- [936] Augsburger JJ, Coats TD, Lauritzen K. Localized suprachoroidal hematomas; ophthalmoscopic features, fluorescein angiography, and clinical course. *Arch Ophthalmol* 1990;108:968–72.
- [937] Hoffman P, Pollack A, Oliver M. Limited choroidal hemorrhage associated with intracapsular cataract extraction. *Arch Ophthalmol* 1984;102:1761–5.
- [938] Morgan CM, Gragoudas ES. Limited choroidal hemorrhage mistaken for a choroidal melanoma. *Ophthalmology* 1987;94:41–6.
- [939] Williams DF, Mieler WF, Lewandowski M. Resolution of an apparent choroidal melanoma. *Retina* 1989;9:131–5.
- [940] Gressel MG, Parrish 2nd RK. Fluorouracil and suprachoroidal hemorrhage. *Arch Ophthalmol* 1987;105:169.
- [941] Ruderman JM, Harbin Jr TS, Campbell DG. Postoperative suprachoroidal hemorrhage following filtration procedures. *Arch Ophthalmol* 1986;104:201–5.
- [942] Gressel MG, Parrish 2nd RK, Heuer DK. Delayed nonexpulsive suprachoroidal hemorrhage. *Arch Ophthalmol* 1984;102:1757–60.

#### 第 4 章

- [1] Cangemi FE, Trempe CL, Walsh JB. Choroidal folds. *Am J Ophthalmol* 1978;86:380–7.
- [2] Dellaporta A. Fundus changes in postoperative hypotony. *Am J Ophthalmol* 1955;40:781–5.
- [3] François J, DeLaey JJ. Fluoro-angiographic aspects of acquired chorio-retinal folds. *Mod Probl Ophthalmol* 1971;9:129–35.
- [4] Gass JDM. Stereoscopic atlas of macular diseases; a fundoscopic and angiographic presentation. St. Louis: CV Mosby; 1970. p. 98–107.
- [5] Gass JDM. Hypotony maculopathy. In: Goldfreed Bellows J, editor. *Contemporary ophthalmology, honoring Sir Stewart Duke-Elder*. Baltimore: Williams & Wilkins; 1972. p. 343–66.
- [6] Hyvärinen L, Walsh FB. Benign chorioretinal folds. *Am J Ophthalmol* 1970;70:14–17.
- [7] Johnson BL. Ocular pathologic features of arteriohepatic dysplasia (Alagille's syndrome). *Am J Ophthalmol* 1990;110:504–12.
- [8] Kroll AJ, Norton EWD. Regression of choroidal folds. *Trans Am Acad Ophthalmol Otolaryngol* 1970;74:515–26.
- [9] Leahey AB, Brucker AJ, Wyszynski RE, et al. Chorioretinal folds; a comparison of unilateral and bilateral cases. *Arch Ophthalmol* 1993;111:357–9.
- [10] Newell FW. Choroidal folds. *Am J Ophthalmol* 1973;75:930–42.
- [11] Norton EWD. A characteristic fluorescein angiographic pattern in choroidal folds. *Proc R Soc Med* 1969;62:119–28.
- [12] Von Winning CH. Fluorography of choroidal folds. *Doc Ophthalmol* 1972;31:209–49.
- [13] Zhao C, Zhang M, Wen X, et al. Choroidal folds in acute Vogt-Koyanagi-Harada disease. *Ocul Immunol Inflamm* 2009;17:282–8.
- [14] Wu W, Wen F, Huang S, et al. Choroidal folds in Vogt-Koyanagi-Harada disease. *Am J Ophthalmol* 2007;143:900–1.
- [15] Hoffmann EM, Muller-Forell W, Pitz S, et al. Erdheim-Chester disease: a case report. *Graefes Arch Clin Exp Ophthalmol* 2004;42:803–7.
- [16] Friberg TR. The etiology of choroidal folds: A biomechanical explanation. *Graefes Arch Clin Exp Ophthalmol* 1989;27:459–64.
- [17] Fardeau C, Tran TH, Gharbi B, et al. Retinal fluorescein and indocyanine green angiography and optical coherence tomography in successive stages of Vogt-Koyanagi-Harada disease. *Int Ophthalmol* 2007;27:163–72.
- [18] Haruyama M, Yuzawa M, Kawamura A, et al. Indocyanine green angiographic findings of chorioretinal folds. *Jpn J Ophthalmol* 2001;45:293–300.
- [19] Friberg TR, Grove Jr AS. Subretinal neovascularization and choroidal folds. *Ann Ophthalmol* 1980;12:245–50.
- [20] Atta HR, Byrne SF. The findings of standardized echography for choroidal folds. *Arch Ophthalmol* 1988;106:1234–41.
- [21] Cappaert WE, Purnell EW, Frank KE. Use of B-sector scan ultrasound in the diagnosis of benign choroidal folds. *Am J Ophthalmol* 1977;84:375–9.
- [22] Dailey RA, Mills RP, Stimac GK, et al. The natural history and CT appearance of acquired hyperopia with choroidal folds. *Ophthalmology* 1986;93:1336–42.
- [23] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 147–54.
- [24] Kalina RE, Mills RP. Acquired hyperopia with choroidal folds. *Ophthalmology* 1980;87:44–50.
- [25] Friberg TR, Grove Jr AS. Choroidal folds and refractive errors associated with orbital tumors; an analysis. *Arch Ophthalmol* 1983;101:598–603.
- [26] Shields JA, Shields CL, Rashid RC. Clinicopathologic correlation of choroidal folds: secondary to massive craniobulbar hemangiopericytoma. *Ophthalm Plast Reconstr Surg* 1992;8:62–8.
- [27] Wolter JR. Parallel horizontal choroidal folds secondary to an orbital tumor. *Am J Ophthalmol* 1974;77:669–73.
- [28] Hovanesian JAD, Higginbotham EJ, Lichter PR, et al. Long-term visual outcome of ocular hypotension after thermosclerostomy. *Am J Ophthalmol* 1993;115:603–7.
- [29] Völcker HE, Naumann GOH. Morphology of uveal and retinal edemas in acute and persisting hypotony. *Mod Probl Ophthalmol* 1979;20:34–41.
- [30] Bullock JD, Egbert PR. Experimental choroidal folds. *Am J Ophthalmol* 1974;78:618–23.
- [31] Jampel HD, Pasquale LR, DiBernardo C. Hypotony maculopathy following trabeculectomy with mitomycin C. *Arch Ophthalmol* 1992;110:1049–50.
- [32] Stamper RL, McMenemy MG, Lieberman MF. Hypotonous maculopathy after trabeculectomy with subconjunctival 5-fluorouracil. *Am J Ophthalmol* 1992;114:544–53.
- [33] Diskin J, Maguire AM, Margherio RR. Choroidal folds induced with diode endolaser. *Arch Ophthalmol* 1992;110:754.
- [34] Gass JDM. Chorioretinal folds: a sign of choroidal neovascularization. *Arch Ophthalmol* 1981;99:1016–8.
- [35] Kawashima M, Mori R, Mizutani Y, et al. Choroidal folds and retinal pigment epithelium tear following intravitreal bevacizumab injection for exudative age-related macular degeneration. *Jpn J Ophthalmol* 2008;52:142–4.
- [36] Gupta V, Gupta A, Gupta P, et al. Spectral-domain cirrus optical coherence tomography of choroidal striations seen in the acute

- stage of Vogt-Koyanagi-Harada disease. *Am J Ophthalmol* 2009;147:148-53, e2.
- [37] Johnson RN, Schatz H, McDonald HR. Photoc maculopathy: early angiographic and ophthalmoscopic findings and late development of choroidal folds. *Arch Ophthalmol* 1987;105:1633-4.
- [38] Sarraf D, Schwartz SD. Bilateral choroidal folds and optic neuropathy: a variant of the crowded disk syndrome? *Ophthalmology* 2003;110:1047-52.
- [39] Beck RW, Savino PJ, Repka MX, et al. Optic disc structure in anterior ischemic optic neuropathy. *Ophthalmology* 1984;91:1334-7.
- [40] Feit RH, Tomsak RL, Ellenberger Jr C. Structural factors in the pathogenesis of ischemic optic neuropathy. *Am J Ophthalmol* 1984;98:105-8.
- [41] Spencer WH. Drusen of the optic disk and aberrant axoplasmic transport. *Am J Ophthalmol* 1978;85:1-12.
- [42] Alagille D, Odievre M, Gautier M, et al. Hepatic ductular hypoplasia associated with characteristic facies, vertebral malformations, retarded physical, mental and sexual development, and cardiac murmur. *J Pediatr* 1975;86:63-71.
- [43] Békássy AN, Garwicz S, Wiebe T, et al. Hepatocellular carcinoma associated with arteriohepatic dysplasia in a 4-year-old girl. *Med Pediatr Oncol* 1992;20:78-83.
- [44] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 3rd ed. St. Louis: CV Mosby; 1987. p. 230-31.
- [45] Lebuissou D-A, Herbert-Frileux F, Aron J-J, et al. Manifestations oculaires accompagnant les hypoplasies ductulaires congénitales biliaires. *Bull Soc Ophthalmol Fr* 1981;81:169-70.
- [46] Romanchuk KG, Judisch GF, LaBrecque DR. Ocular findings in arteriohepatic dysplasia (Alagille's syndrome). *Can J Ophthalmol* 1981;16:94-9.
- [47] Rosenblum JL, Keating JP, Prensky AL, et al. A progressive neurologic syndrome in children with chronic liver disease. *N Engl J Med* 1981;304:503-8.
- [48] Baker RS, Buncic JR. Sudden visual loss in pseudotumor cerebri due to central retinal artery occlusion. *Arch Neurol* 1984;41:1274-6.
- [49] Bird AC, Sanders MD. Choroidal folds in association with papilloedema. *Br J Ophthalmol* 1973;57:89-97.
- [50] Morris AT, Sanders MD. Macular changes resulting from papilloedema. *Br J Ophthalmol* 1980;64:211-6.
- [51] Nettleship E. Peculiar lines in the choroid in a case of postpapillitic atrophy. *Trans Ophthalmol Soc UK* 1883-1884;4:167-8.
- [52] Larrison WI, Frederick Jr AR, Peterson TJ, et al. Posterior retinal folds following vitreoretinal surgery. *Arch Ophthalmol* 1993;111:621-5.
- [53] Lewen RM, Lyon CE, Diamond JG. Scleral buckling with intraocular air injection complicated by arcuate retinal folds. *Arch Ophthalmol* 1987;105:1212-4.
- [54] Pavan PR. Retinal fold in macula following intraocular gas; an avoidable complication of retinal detachment surgery. *Arch Ophthalmol* 1984;102:83-4.
- [55] Van Meurs JC, Humalda D, Mertens DAE, et al. Retinal folds through the macula. *Doc Ophthalmol* 1991;78:335-40.
- [56] Ericson LA. Hygroton-induced myopia and retinal edema. *Acta Ophthalmol* 1963;41:538-43.
- [57] Pallin O, Ericsson R. Ultrasound studies in a case of hygroton-induced myopia. *Acta Ophthalmol* 1965;43:692-6.
- [58] Beasley FJ. Transient myopia and retinal edema during hydrochlorothiazide (Hydrodiuril) therapy. *Arch Ophthalmol* 1961;65:212-3.
- [59] Beasley FJ. Transient myopia and retinal edema during ethoxzolamide (Cardrase) therapy. *Arch Ophthalmol* 1962;68:490-1.
- [60] Garland MA, Sholk A, Guenter KE. Acetazolamide induced myopia. *Am J Obstet Gynecol* 1962;84:69-71.
- [61] Muirhead JF, Scheie HG. Transient myopia after acetazolamide. *Arch Ophthalmol* 1960;63:315-8.
- [62] Ryan Jr EH, Jampol LM. Drug-induced acute transient myopia with retinal folds. *Retina* 1986;6:220-3.
- [63] Bovino J, Marcus DF. The mechanism of transient myopia induced by sulfonamide therapy. *Am J Ophthalmol* 1982;94:99-102.
- [64] Boynton JR, Purnell EW. Bilateral microphthalmos without microcornea associated with unusual papillomacular retinal folds and high hyperopia. *Am J Ophthalmol* 1975;79:820-6.
- [65] Fried M, Meyer-Schwickerath G, Koch A. Excessive hypermetropia: review and case report documented by echography. *Ann Ophthalmol* 1982;14:15-19.
- [66] Ryckewaert M, Zanlonghi X, Bertrand-Cuignet H, et al. High hyperopia with papillomacular fold. *Ophthalmologica* 1992;204:49-53.
- [67] Spitznas M, Gerke E, Bateman JB. Hereditary posterior microphthalmos with papillomacular fold and high hyperopia. *Arch Ophthalmol* 1983;101:413-7.
- [68] Uemura Y, Morizane H. The fundus anomalies in high hypermetropic eyes (the interpapillo-macular retinal fold). *Jpn J Clin Ophthalmol* 1970;24:961-5.
- [69] Erdol H, Kola M, Turk A, et al. Ultrasound biomicroscopy and OCT findings in posterior microphthalmos. *Eur J Ophthalmol* 2008;18:479-82.
- [70] Buyukyildiz HZ, Demirci G, Gulkilik G. Optical coherence tomography in posterior microphthalmos with papillomacular fold and high hyperopia in two siblings. *Ann Ophthalmol (Skokie)* 2008;40:45-7.
- [71] Al Turki R, Baabbad R, Al Amro S. Posterior microphthalmos with uveal effusion managed by lamellar sclerectomies. *Ann Ophthalmol (Skokie)* 2008;40:193-6.
- [72] Lee S, Ai E, Lowe M, et al. Bilateral macular holes in sporadic posterior microphthalmos. *Retina* 1990;10:185-8.
- [73] Malik TG, Khalil M, Shafiq MM, et al. Increased corneal curvature with posterior nanophthalmos. *J Coll Physicians Surg Pak* 2008;18:590-1.
- [74] Aras C, Ozdamar A, Ustundag C, et al. Optical coherence tomographic features of papillomacular fold in posterior microphthalmos. *Retina* 2005;25:665-7.
- [75] Khairallah M, Messaoud R, Zaouali S, et al. Posterior segment changes associated with posterior microphthalmos. *Ophthalmology* 2002;109:569-74.
- [76] Nguyen AT, Johnson MA, Hutcheson KA. Good visual function in posterior microphthalmos. *J AAPOS* 2000;4:240-2.
- [77] Meire F, Leys M, Boghaert S, et al. Posterior microphthalmos. *Bull Soc Belge Ophthalmol* 1989;231:101-6.
- [78] Garg SJ, Grand MG, Lee HC. X-linked retinosis and outer retinal corrugations. *Arch Ophthalmol* 2007;125:1142.
- [79] Agarwal A, Rao US. Outer retinal corrugations in X-linked juvenile retinoschisis. *Arch Ophthalmol* 2007;125:278-9.
- [80] Garg SJ, Lee HC, Grand MG. Bilateral macular detachments in X-linked retinoschisis. *Arch Ophthalmol* 2006;124:1053-5.
- [81] Caputo G, de Haller R, Metge F, et al. Ischemic retinopathy and neovascular proliferation secondary to shaken baby syndrome. *Retina* 2008;28(Suppl.):S42-6.
- [82] Watts P, Obi E. Retinal folds and retinoschisis in accidental and non-accidental head injury. *Eye* 2008;22:1514-6.
- [83] Chong NV. Perimacular retinal folds and nonaccidental injury - yes, no, or maybe? *Eye* 2007;21:3-4.
- [84] Lueder GT, Turner JW, Paschall R. Perimacular retinal folds simulating nonaccidental injury in an infant. *Arch Ophthalmol* 2006;124:1782-3.
- [85] Lewis H, Kaiser PK, Lewis S, et al. Macular translocation

- for subfoveal choroidal neovascularization in age-related macular degeneration: a prospective study. *Am J Ophthalmol* 1999;128:135–46.
- [86] de Juan Jr E, Vander JF. Effective macular translocation without scleral imbrication. *Am J Ophthalmol* 1999;128:380–2.
- [87] de Juan Jr E, Loewenstein A, Bressler NM, et al. Translocation of the retina for management of subfoveal choroidal neovascularization II: a preliminary report in humans. *Am J Ophthalmol* 1998;125:635–46.
- [88] Kadonosono K, Takeuchi S, Iwata S, et al. Macular fold after limited macular translocation treated with scleral shortening release and intravitreal gas. *Am J Ophthalmol* 2001;132:790–2.
- [89] Imai K, Loewenstein A, de Juan Jr E. Translocation of the retina for management of subfoveal choroidal neovascularization I: experimental studies in the rabbit eye. *Am J Ophthalmol* 1998;125:627–34.

## 第5章

- [1] Weingeist TA, Kobrin JL, Watzke RC. Histopathology of Best's macular dystrophy. *Arch Ophthalmol* 1982;100:1108–14.
- [2] Pece A, Gaspari G, Avanza P, et al. Best's multiple vitelliform degeneration. *Int Ophthalmol* 1992;16:459–64.
- [3] Noble KG, Scher BM, Carr RE. Polymorphous presentations and vitelliform macular dystrophy: Subretinal neovascularisation and central choroidal atrophy. *Br J Ophthalmol* 1978;62:561–70.
- [4] Morse PH, MacLean AL. Fluorescein fundus studies in hereditary vitelliruptive macular degeneration. *Am J Ophthalmol* 1968;66:485–94.
- [5] Mohler CW, Fine SL. Long-term evaluation of patients with Best's vitelliform dystrophy. *Ophthalmology* 1981;88:688–92.
- [6] Miller SA, Bresnick GH, Chandra SR. Choroidal neovascular membrane in Best's vitelliform macular dystrophy. *Am J Ophthalmol* 1976;82:252–5.
- [7] Miller SA. Fluorescence in Best's vitelliform dystrophy, lipofuscin, and fundus flavimaculatus. *Br J Ophthalmol* 1978;62:256–60.
- [8] Massof RW, Fleischman JA, Fine SL, et al. Flicker fusion thresholds in Best macular dystrophy. *Arch Ophthalmol* 1977;95:991–4.
- [9] Maloney WF, Robertson DM, Duboff SM. Hereditary vitelliform macular degeneration; variable fundus findings within a single pedigree. *Arch Ophthalmol* 1977;95:979–83.
- [10] Krill AE, Morse PA, Potts AM, et al. Hereditary vitelliruptive macular degeneration. *Am J Ophthalmol* 1966;61:1405–15.
- [11] Kraushar MF, Margolis S, Morse PH, et al. Pseudohypopyon in Best's vitelliform macular dystrophy. *Am J Ophthalmol* 1982;94:30–7.
- [12] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 162.
- [13] Frangieh GT, Green WR, Fine SL. A histopathologic study of Best's macular dystrophy. *Arch Ophthalmol* 1982;100:1115–21.
- [14] François J, De Rouck A, Fernandez-Sasso D. L'électrooculographie dans les dégénérescences vitelliformes de la macula. *Bull Soc Belge Ophtalmol* 1966;143:547–52.
- [15] Fishman GA, Ward LM, Rusin MM. Vitreous fluorophotometry in patients with Best's macular dystrophy. *Retina* 1990;10:102–4.
- [16] Fishman GA, Baca W, Alexander KR, et al. Visual acuity in patients with Best vitelliform macular dystrophy. *Ophthalmology* 1993;100:1665–70.
- [17] Deutman AF. *The hereditary dystrophies of the posterior pole of the eye*. Assen: Van Gorcum; 1971. p. 198.
- [18] Curry Jr HF, Moorman LT. Fluorescein photography of vitelliform macular degeneration. *Arch Ophthalmol* 1968;79:705–9.
- [19] Cross HE, Bard L. Electro-oculography in Best's macular dystrophy. *Am J Ophthalmol* 1974;77:46–50.
- [20] Cavender JC. Best's macular dystrophy. *Arch Ophthalmol* 1982;100:1067.
- [21] Birndorf LA, Dawson WW. A normal electrooculogram in a patient with a typical vitelliform macular lesion. *Invest Ophthalmol* 1973;12:830–3.
- [22] Best F. Über eine hereditäre Maculaaffektion; Beitrag zur Vererbungslehre. *Z Augenheilkd* 1905;13:199–212.
- [23] Berkley WL, Bussey FR. Heredodegeneration of the macula. *Am J Ophthalmol* 1949;32:361–5.
- [24] Benson WE, Kolker AE, Enoch JM, et al. Best's vitelliform macular dystrophy. *Am J Ophthalmol* 1975;79:59–66.
- [25] Barricks ME. Vitelliform lesions developing in normal fundi. *Am J Ophthalmol* 1977;83:324–7.
- [26] Bard LA, Cross HE. Genetic counseling of families with Best macular dystrophy. *Am Acad Ophthalmol Otolaryngol* 1975;79:OP865–OP873.
- [27] Anderson SR, editor. *Ocular pathology in hereditary (vitelliform) macular degeneration*. In: *European ophthalmic pathology society meeting*, May 28, 1970, Ghent, Belgium.
- [28] Forsman K, Graff C, Nordstrom S, et al. The gene for Best's macular dystrophy is located at 11q13 in a Swedish family. *Clin Genet* 1992;42:156–9.
- [29] Nichols BE, Bascom R, Litt M, et al. Refining the locus for Best vitelliform macular dystrophy and mutation analysis of the candidate gene ROM1. *Am J Hum Genet* 1994;54:95–103.
- [30] Stone EM, Nichols BE, Streb LM, et al. Genetic linkage of vitelliform macular degeneration (Best's disease) to chromosome 11q13. *Nat Genet* 1992;1:246–50.
- [31] Petrukhin K, Koisti MJ, Bakall B, et al. Identification of the gene responsible for Best macular dystrophy. *Nat Genet* 1998;19:241–7.
- [32] Boon CJ, Klevering BJ, Leroy BP, et al. The spectrum of ocular phenotypes caused by mutations in the BEST1 gene. *Prog Retin Eye Res* 2009;28:187–205.
- [33] Yu K, Qu Z, Cui Y, et al. Chloride channel activity of bestrophin mutants associated with mild or late-onset macular degeneration. *Invest Ophthalmol Vis Sci* 2007;48:4694–705.
- [34] Boon CJ, Klevering BJ, den Hollander AI, et al. Clinical and genetic heterogeneity in multifocal vitelliform dystrophy. *Arch Ophthalmol* 2007;125:1100–6.
- [35] Bakall B, Marknell T, Ingvast S, et al. The mutation spectrum of the bestrophin protein – functional implications. *Hum Genet* 1999;104:383–9.
- [36] Hartzell HC, Qu Z, Yu K, et al. Molecular physiology of bestrophins: multifunctional membrane proteins linked to best disease and other retinopathies. *Physiol Rev* 2008;88:639–72.
- [37] Hartzell C, Qu Z, Putzier I, et al. Looking chloride channels straight in the eye: bestrophins, lipofuscinosis, and retinal degeneration. *Physiology (Bethesda)* 2005;20:292–302.
- [38] Spaide RF, Noble K, Morgan A, et al. Vitelliform macular dystrophy. *Ophthalmology* 2006;113:1392–400.

- [39] Schachat AP, de la Cruz A, Green WR, et al. Macular hole and retinal detachment in Best's disease. *Retina* 1985;5:22-5.
- [40] Miller SA. Multifocal Best's vitelliform dystrophy. *Arch Ophthalmol* 1977;95:984-90.
- [41] Thu T, Chan WM, Dung D, et al. A large macular hole in a young patient with Best's disease. *Clin Experiment Ophthalmol* 2003 Dec;31:539-40.
- [42] Mehta M, Katsumi O, Tetsuka S, et al. Best's macular dystrophy with a macular hole. *Acta Ophthalmol* 1991;69:131-4.
- [43] O'Gorman S, Flaherty WA, Fishman GA, et al. Histopathologic findings in Best's vitelliform macular dystrophy. *Arch Ophthalmol* 1988;106:1261-8.
- [44] Bakall B, Radu RA, Stanton JB, et al. Enhanced accumulation of A2E in individuals homozygous or heterozygous for mutations in BEST1 (VMD2). *Exp Eye Res* 2007;85:34-43.
- [45] Spaide R. Autofluorescence from the outer retina and subretinal space: hypothesis and review. *Retina* 2008;28:5-35.
- [46] Gross JG, Freeman WR. Posttraumatic yellow maculopathy. *Retina* 1990;10:37-41.
- [47] Fletcher RC, Jampol LM, Rimm W. An unusual presentation of Best's disease. *Br J Ophthalmol* 1977;61:719-21.
- [48] Yoder FE, Cros HE, Chase GA, et al. Linkage studies of Best's macular dystrophy. *Clin Genet* 1988;34:26-30.
- [49] Kaufman SJ, Goldberg MF, Orth DH, et al. Autosomal-dominant vitreoretinopathy. *Arch Ophthalmol* 1982;100:272-8.
- [50] Blair NP, Goldberg MF, Fishman GA, et al. Autosomal-dominant vitreoretinopathy (ADVIRC). *Br J Ophthalmol* 1984;68:2-9.
- [51] Oh KT, Vallar C. Central cone dysfunction in autosomal-dominant vitreoretinopathy (ADVIRC). *Am J Ophthalmol* 2006;141:940-3.
- [52] Yardley J, Leroy BP, Hart-Holden N, et al. Mutations of VMD2 splicing regulators cause nanophthalmos and autosomal-dominant vitreoretinopathy (ADVIRC). *Invest Ophthalmol Vis Sci* 2004;45:3683-9.
- [53] Burgess R, MacLaren RE, Davidson AE, et al. ADVIRC is caused by distinct mutations in BEST1 that alter pre-mRNA splicing. *J Med Genet* 2009;46:620-5.
- [54] Reddy MA, Francis PJ, Berry V, et al. A clinical and molecular genetic study of a rare dominantly inherited syndrome (MRCS) comprising of microcornea, rod-cone dystrophy, cataract, and posterior staphyloma. *Br J Ophthalmol* 2003;87:197-202.
- [55] Burgess R, Millar ID, Leroy BP, et al. Biallelic mutation of BEST1 causes a distinct retinopathy in humans. *Am J Hum Genet* 2008;82:19-31.
- [56] Gerth C, Zawadzki RJ, Werner JS, et al. Detailed analysis of retinal function and morphology in a patient with autosomal-recessive bestrophinopathy (ARB). *Doc Ophthalmol* 2009;118:239-46.
- [57] Vaclavik V, Ooi KG, Bird AC, et al. Autofluorescence findings in acute exudative polymorphous vitelliform maculopathy. *Arch Ophthalmol* 2007;125:274-7.
- [58] Chan CK, Gass JD, Lin SG. Acute exudative polymorphous vitelliform maculopathy syndrome. *Retina* 2003;23:453-62.
- [59] Gass JD, Chuang EL, Granek H. Acute exudative polymorphous vitelliform maculopathy. *Trans Am Ophthalmol Soc* 1988;86:354-66.
- [60] Eksandh L, Adamus G, Mosgrove L, et al. Autoantibodies against bestrophin in a patient with vitelliform paraneoplastic retinopathy and a metastatic choroidal malignant melanoma. *Arch Ophthalmol* 2008;126:432-5.
- [61] Nieuwendijk TJ, Hooymans JM. Paraneoplastic vitelliform retinopathy associated with metastatic choroidal melanoma. *Eye (Lond)* 2007;21:1436-7.
- [62] Wiznia RA, Perina B, Noble KG. Vitelliform macular dystrophy of late onset. *Br J Ophthalmol* 1981;65:866-8.
- [63] Watzke RC, Folk JC, Lang RM. Pattern dystrophy of the retinal pigment epithelium. *Ophthalmology* 1982;89:1400-6.
- [64] Vine AK, Schatz H. Adult-onset foveomacular pigment epithelial dystrophy. *Am J Ophthalmol* 1980;89:680-91.
- [65] Slezak H, Hommer K. Fundus pulverulentus. Albrecht von Graefes *Arch Klin Exp Ophthalmol* 1969;178:177-82.
- [66] Skalka HW. Vitelliform macular lesions. *Br J Ophthalmol* 1981;65:180-3.
- [67] Sjögren H. Dystrophia reticularis laminae pigmentosae retinae: an earlier not described hereditary eye disease. *Acta Ophthalmol* 1950;28:279-95.
- [68] Singerman LJ, Berkow JW, Patz A. Dominant slowly progressive macular dystrophy. *Am J Ophthalmol* 1977;83:680-92.
- [69] Shiono T, Ishikawa A, Hara S, et al. Pattern dystrophy of the retinal pigment epithelium. *Retina* 1990;10:251-4.
- [70] Sabates R, Pruett RC, Hirose T. Pseudovitelliform macular degeneration. *Retina* 1982;2:197-205.
- [71] Patrinely JR, Lewis RA, Font RL. Foveomacular vitelliform dystrophy, adult type; a clinicopathologic study including electron microscopic observations. *Ophthalmology* 1985;92:1712-8.
- [72] O'Donnell FE, Schatz H, Reid P, et al. Autosomal-dominant dystrophy of the retinal pigment epithelium. *Arch Ophthalmol* 1979;97:680-3.
- [73] Mejia JR, Gieser RG. Sporadic butterfly macular dystrophy. *Ann Ophthalmol* 1981;13:1253-4.
- [74] Mesker RP, Oosterhuis JA, Delleman JW. A retinal lesion resembling Sjögren's dystrophia reticularis laminae pigmentosae retinae. In: Winkelman JE, Crone RA, editors. *Perspectives in ophthalmology*, vol. II. Amsterdam: Excerpta Medica; 1970. p. 40-5.
- [75] Marmor MF. "Vitelliform" lesions in adults. *Ann Ophthalmol* 1979;11:1705-12.
- [76] Marmor MF, Byers B. Pattern dystrophy of the pigment epithelium. *Am J Ophthalmol* 1977;84:32-44.
- [77] Kingham JD, Fenzl RE, Willerson D, et al. Reticular dystrophy of the retinal pigment epithelium; a clinical and electrophysiologic study of three generations. *Arch Ophthalmol* 1978;96:1177-84.
- [78] Kingham JD, Lochen GP. Vitelliform macular degeneration. *Am J Ophthalmol* 1977;84:526-31. [correspondence 1979;88:955.]
- [79] Hsieh RC, Fine BS, Lyons JS. Patterned dystrophies of the retinal pigment epithelium. *Arch Ophthalmol* 1977;95:429-35.
- [80] Hodes BL, Feiner LA, Sherman SH, et al. Progression of pseudovitelliform macular dystrophy. *Arch Ophthalmol* 1984;102:381-3.
- [81] Hittner HM, Ferrell RE, Borda RP, et al. Atypical vitelliform macular dystrophy in a 5-generation family. *Br J Ophthalmol* 1984;68:199-207.
- [82] Gutman I, Walsh JB, Henkind P. Vitelliform macular dystrophy and butterfly-shaped epithelial dystrophy: a continuum? *Br J Ophthalmol* 1982;66:170-3.
- [83] Gass JDM. A clinicopathologic study of a peculiar foveomacular dystrophy. *Trans Am Ophthalmol Soc* 1974;72:139-56.
- [84] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 170.
- [85] Gass JDM. Dominantly inherited adult form of vitelliform foveomacular dystrophy. In: Fine SL, Owens SL, editors. *Management of retinal vascular and macular disorders*. Baltimore: Williams & Wilkins; 1983. p. 182-6.
- [86] Girard P, Setbon G, Forest A, et al. Dystrophies en réseau de l'épithélium pigmentaire (dystrophies macroréticulaires et en aile de papillon). *J Fr Ophtalmol* 1980;3:101-8.
- [87] Fishman GA, Trimble S, Rabb MF, et al. Pseudovitelliform macular degeneration. *Arch Ophthalmol* 1977;95:73-6.



- [88] Fishman GA, Woolf MB, Goldberg MF, et al. Reticular tapeto-retinal dystrophy as a possible late stage of Sjögren's reticular dystrophy. *Br J Ophthalmol* 1976;60:35-40.
- [89] Deutman AF, Rümke AML. Reticular dystrophy of the retinal pigment epithelium; dystrophia reticularis laminae pigmentosa retinae of H. Sjogren. *Arch Ophthalmol* 1969;82:4-9.
- [90] Deutman AF, van Blommestein JDA, Henkes HE, et al. Butterfly-shaped pigment dystrophy of the fovea. *Arch Ophthalmol* 1970;83:558-69.
- [91] Epstein GA, Rabb MF. Adult vitelliform macular degeneration: Diagnosis and natural history. *Br J Ophthalmol* 1980;64:733-40.
- [92] de Jong PTVM, Delleman JW. Pigment epithelial pattern dystrophy; four different manifestations in a family. *Arch Ophthalmol* 1982;100:1416-21.
- [93] Cortin P, Archer D, Maumenee IH, et al. A patterned macular dystrophy with yellow plaques and atrophic changes. *Br J Ophthalmol* 1980;64:127-34.
- [94] Chopdar A. Reticular dystrophy of retina. *Br J Ophthalmol* 1976;60:342-4.
- [95] Burgess D. Subretinal neovascularization in a pattern dystrophy of the retinal pigment epithelium. *Retina* 1981;1:151-5.
- [96] Bloom LH, Swanson DE, Bird AC. Adult vitelliform macular degeneration. *Br J Ophthalmol* 1981;65:800-1.
- [97] Ayazi S, Fagan R. Pattern dystrophy of the pigment epithelium. *Retina* 1981;1:287-9.
- [98] Renner AB, Fiebig BS, Weber BH, et al. Phenotypic variability and long-term follow-up of patients with known and novel PRPH2/RDS gene mutations. *Am J Ophthalmol* 2009;147:518-30, e1.
- [99] Zhuk SA, Edwards AO. Peripherin/RDS and VMD2 mutations in macular dystrophies with adult-onset vitelliform lesion. *Mol Vis* 2006;12:811-5.
- [100] Wells J, Wroblewski J, Keen J, et al. Mutations in the human retinal degeneration slow (RDS) gene can cause either retinitis pigmentosa or macular dystrophy. *Nat Genet* 1993;3:213-8.
- [101] Nichols BE, Sheffield VC, Vandenberg K, et al. Butterfly-shaped pigment dystrophy of the fovea caused by a point mutation in codon 167 of the RDS gene. *Nat Genet* 1993;3:191-2.
- [102] Feist RM, White Jr MF, Skalka H, et al. Choroidal neovascularization in a patient with adult foveomacular dystrophy and a mutation in the retinal degeneration slow gene (Pro 210 Arg). *Am J Ophthalmol* 1994;118:259-60.
- [103] Gorin MB, Jackson KE, Ferrell RE, et al. A peripherin/retinal degeneration slow mutation (Pro-210-Arg) associated with macular and peripheral retinal degeneration. *Ophthalmology* 1994;102:246-55.
- [104] Weleber RG, Carr RE, Murphey WH, et al. Phenotypic variation including retinitis pigmentosa, pattern dystrophy, and fundus flavimaculatus in a single family with a deletion of codon 153 or 154 of the peripherin/RDS gene. *Arch Ophthalmol* 1993;111:1531-42.
- [105] Wells J, Wroblewski J, Keen J, et al. Mutations in the human retinal degeneration slow (RDS) gene can cause either retinitis pigmentosa or macular dystrophy. *Nat Genet* 1993;3:213-8.
- [106] Gamundi MJ, Hernan I, Muntanyola M, et al. High prevalence of mutations in peripherin/RDS in autosomal-dominant macular dystrophies in a Spanish population. *Mol Vis* 2007;13:1031-7.
- [107] Testa F, Marini V, Rossi S, et al. A novel mutation in the RDS gene in an Italian family with pattern dystrophy. *Br J Ophthalmol* 2005;89:1066-8.
- [108] Francis PJ, Schultz DW, Gregory AM, et al. Genetic and phenotypic heterogeneity in pattern dystrophy. *Br J Ophthalmol* 2005;89:1115-9.
- [109] Yang Z, Li Y, Jiang L, et al. A novel RDS/peripherin gene mutation associated with diverse macular phenotypes. *Ophthalmic Genet* 2004;25:133-45.
- [110] van Lith-Verhoeven JJ, van den Helm B, Deutman AF, et al. A peculiar autosomal-dominant macular dystrophy caused by an asparagine deletion at codon 169 in the peripherin/RDS gene. *Arch Ophthalmol* 2003;121:1452-7.
- [111] Boon CJ, den Hollander AI, Hoyng CB, et al. The spectrum of retinal dystrophies caused by mutations in the peripherin/RDS gene. *Prog Retin Eye Res* 2008;27:213-35.
- [112] Conley S, Nour M, Fliesler SJ, et al. Late-onset cone photoreceptor degeneration induced by R172W mutation in Rds and partial rescue by gene supplementation. *Invest Ophthalmol Vis Sci* 2007;48:5397-407.
- [113] Keilhauer CN, Meigen T, Stohr H, et al. Late-onset central areolar choroidal dystrophy caused by a heterozygous frameshift mutation affecting codon 307 of the peripherin/RDS gene. *Ophthalmic Genet* 2006;27:139-44.
- [114] Yang Z, Lin W, Moshfeghi DM, et al. A novel mutation in the RDS/Peripherin gene causes adult-onset foveomacular dystrophy. *Am J Ophthalmol* 2003;135:213-8.
- [115] Wabbels B, Preising MN, Kretschmann U, et al. Genotype-phenotype correlation and longitudinal course in ten families with Best vitelliform macular dystrophy. *Graefes Arch Clin Exp Ophthalmol* 2006;244:1453-66.
- [116] Agarwal A, Patel P, Adkins T, et al. Spectrum of pattern dystrophy in pseudoxanthoma elasticum. *Arch Ophthalmol* 2005;123:923-8.
- [117] Giuffrè G. Autosomal-dominant pattern dystrophy of the retinal pigment epithelium; intrafamilial variability. *Retina* 1988;8:169-73.
- [118] Aaberg TM, Han DP. Evaluation of phenotypic similarities between Stargardt flavimaculatus and retinal pigment epithelial pattern dystrophies. *Trans Am Ophthalmol Soc* 1987;85:101-19.
- [119] Lopez PF, Aaberg TM. Phenotypic similarities between Stargardt's flavimaculatus and pattern dystrophies. *Aust NZ J Ophthalmol* 1992;20:163-71.
- [120] McDonnell PJ, Kivlin JD, Maumenee IH, et al. Fundus flavimaculatus without maculopathy; a clinicopathologic study. *Ophthalmology* 1986;93:116-9.
- [121] Lim JI, Enger C, Fine SL. Foveomacular dystrophy. *Am J Ophthalmol* 1994;117:1-6.
- [122] Bottoni F, Fatigati G, Carlevaro G, et al. Fundus flavimaculatus and subretinal neovascularization. *Graefes Arch Clin Exp Ophthalmol* 1992;230:498-500.
- [123] Noble KG, Chang S. Adult vitelliform macular degeneration progressing to full-thickness macular hole. *Arch Ophthalmol* 1991;109:325.
- [124] Jaffe GJ, Schatz H. Histopathologic features of adult-onset foveomacular pigment epithelial dystrophy. *Arch Ophthalmol* 1988;106:958-60.
- [125] Finger RP, Charbel Issa P, Ladewig MS, et al. Pseudoxanthoma elasticum: genetics, clinical manifestations and therapeutic approaches. *Surv Ophthalmol* 2009;54:272-85.
- [126] Li Volti S, Avitabile T, Li Volti G, et al. Optic disc drusen, angiod streaks, and mottled fundus in various combinations in a Sicilian family. *Graefes Arch Clin Exp Ophthalmol* 2002;240:771-6.
- [127] McDonald HR, Schatz H, Aaberg TM. Reticular-like pigmentary patterns in pseudoxanthoma elasticum. *Ophthalmology* 1988;95:306-11.
- [128] Leonardy NJ, Harbin RL, Sternberg Jr P. Pattern dystrophy of the retinal pigment epithelium in a patient with McArdle's disease. *Am J Ophthalmol* 1988;106:741-2.
- [129] Babel J, Tsacopoulos M. Les lésions rétinienne de la dystrophie myotonique; étude clinique. *Ann Oculist* 1970;203:1049-65.
- [130] Betten MG, Bilchik RC, Smith ME. Pigmentary retinopathy of

- myotonic dystrophy. *Am J Ophthalmol* 1971;72:720-3.
- [131] Burian HM, Burns CA. Ocular changes in myotonic dystrophy. *Am J Ophthalmol* 1967;63:22-34.
- [132] Burns CA. Ocular histopathology of myotonic dystrophy; a clinicopathologic case report. *Am J Ophthalmol* 1969;68:416-22.
- [133] Deutman AF. Genetically determined retinal and choroidal disease. *Trans Ophthalmol Soc UK* 1974;94:1014-32.
- [134] Dumont P, Malthieu D, Turut P, et al. Dystrophie reticulee de la macula et maladie de Steinert. *Bull Soc Ophthalmol Fr* 1989;89:277-82.
- [135] Godtfredsen E, Jensen SF. Dystrophia myotonica and retinal dystrophy. *Acta Ophthalmol* 1969;47:565-9.
- [136] Hayasaka S, Kiyosawa M, Katsumata S, et al. Ciliary and retinal changes in myotonic dystrophy. *Arch Ophthalmol* 1984;102:88-93.
- [137] Manschot WA. Histological findings in a case of dystrophia myotonica. *Ophthalmologica* 1968;155:294-6.
- [138] Meyer E, Navon D, Auslender L, et al. Myotonic dystrophy: Pathological study of the eyes. *Ophthalmologica* 1980;181:215-20.
- [139] Kimizuka Y, Kiyosawa M, Tamai M, et al. Retinal changes in myotonic dystrophy; clinical and follow-up evaluation. *Retina* 1993;13:129-35.
- [140] Raby O, Bonsch M. Hypotonie oculaire et lésions rétinienne dans la maladie de Steinert: aspects angiographiques. *J Fr Ophthalmol* 1986;9:543-53.
- [141] ter Bruggen JP, van Meel GJ, Paridaens ADA, et al. Foveal photopigment kinetics-abnormality: an early sign in myotonic dystrophy? *Br J Ophthalmol* 1992;76:594-7.
- [142] Farmer SG, Longstreth Jr WT, Kalina RE, et al. Fleck retina in Kjellin's syndrome. *Am J Ophthalmol* 1985;99:45-50.
- [143] Kjellin K. Familial spastic paraplegia with amyotrophy, oligophrenia, and central retinal degeneration. *AMA Arch Neurol* 1959;1:133-40.
- [144] Frisch IB, Haag P, Steffen H, et al. Kjellin's syndrome: fundus autofluorescence, angiographic, and electrophysiologic findings. *Ophthalmology* 2002;109:1484-91.
- [145] Takeshima T, Nakashima K. MIDD and MELAS: a clinical spectrum. *Intern Med* 2005;44:276-7.
- [146] Michaelides M, Jenkins SA, Bamio DE, et al. Macular dystrophy associated with the A3243G mitochondrial DNA mutation. Distinct retinal and associated features, disease variability, and characterization of asymptomatic family members. *Arch Ophthalmol* 2008;126:320-8.
- [147] Sivaprasad S, Kung BT, Robson AG, et al. A new phenotype of macular dystrophy associated with a mitochondrial A3243G mutation. *Clin Experiment Ophthalmol* 2008;36:92-3.
- [148] Rath PP, Jenkins S, Michaelides M, et al. Characterisation of the macular dystrophy in patients with the A3243G mitochondrial DNA point mutation with fundus autofluorescence. *Br J Ophthalmol* 2008;92:623-9.
- [149] Ambonville C, Meas T, Lecleire-Collet A, et al. Macular pattern dystrophy in MIDD: long-term follow-up. *Diabetes Metab* 2008;34:389-91.
- [150] Isashiki Y, Nakagawa M, Ohba N, et al. Retinal manifestations in mitochondrial diseases associated with mitochondrial DNA mutation. *Acta Ophthalmol Scand* 1998;76:6-13.
- [151] Harrison TJ, Boles RG, Johnson DR, et al. Macular pattern retinal dystrophy, adult-onset diabetes, and deafness: a family study of A3243G mitochondrial heteroplasmy. *Am J Ophthalmol* 1997;124:217-21.
- [152] Rummelt V, Folberg R, Ionasescu V, et al. Ocular pathology of MELAS syndrome with mitochondrial DNA nucleotide 3243 point mutation. *Ophthalmology* 1993;100:1757-66.
- [153] Stargardt K. Über familiäre, progressive Degeneration in der Maculagegend des Auges. *Albrecht von Graefes Arch Ophthalmol* 1909;71:534-50.
- [154] Rosehr K. Über den weiteren Verlauf der von Stargardt und Behr beschriebenen familiären Degeneration der Makula. *Klin Monatsbl Augenheilkd* 1954;124:171-9.
- [155] Franceschetti A. Über tapeto-retinale Degenerationen im Kindesalter Dritter Fortbildungskurs der Deutschen Ophthalmologischen Gesellschaft, Hamburg, 1962. In: Sautter H, editor. *Entwicklung und Fortschritt in der Augenheilkunde*. Stuttgart: Enke; 1963. p. 107.
- [156] Franceschetti A. A special form of tapetoretinal degeneration: fundus flavimaculatus. *Trans Am Acad Ophthalmol Otolaryngol* 1965;69:1048-53.
- [157] Steinmetz RL, Garner A, Maguire JI, et al. Histopathology of incipient fundus flavimaculatus. *Ophthalmology* 1991;98:953-6.
- [158] Newell FW, Krill AE, Farkas TG. Drusen and fundus flavimaculatus: clinical, functional, and histologic characteristics. *Trans Am Acad Ophthalmol Otolaryngol* 1972;76:88-100.
- [159] Lopez PF, Maumenee IH, de la Cruz Z, et al. Autosomal-dominant fundus flavimaculatus; clinicopathologic correlation. *Ophthalmology* 1990;97:798-809.
- [160] Eagle Jr RC, Lucier AC, Bernardino Jr VB, et al. Retinal pigment epithelial abnormalities in fundus flavimaculatus; a light and electron microscopic study. *Ophthalmology* 1980;87:1189-200.
- [161] Birnbach CD, Järveläinen M, Possin DE, et al. Histopathologic and immunocytochemistry of the neurosensory retina in fundus flavimaculatus. *Ophthalmology* 1994;101:1211-9.
- [162] Klien BA, Krill AE. Fundus flavimaculatus; clinical, functional and histopathologic observations. *Am J Ophthalmol* 1967;64:3-23.
- [163] Uliss AE, Moore AT, Bird AC. The dark choroid in posterior retinal dystrophies. *Ophthalmology* 1987;94:1423-7.
- [164] Moloney JBM, Mooney DJ, O'Connor MA. Retinal function in Stargardt's disease and fundus flavimaculatus. *Am J Ophthalmol* 1983;96:57-65.
- [165] Leys A, van de Sompel W. Dark choroid in cone-rod dystrophy. *Eur J Ophthalmol* 1992;2:39-40.
- [166] Leveille AS, Morse PH, Burch JV. Fundus flavimaculatus and subretinal neovascularization. *Ann Ophthalmol* 1982;14:331-4.
- [167] Krill AE, Klien BA. Flecked retina syndrome. *Arch Ophthalmol* 1965;74:496-508.
- [168] Klein R, Lewis RA, Meyers SM, et al. Subretinal neovascularization associated with fundus flavimaculatus. *Arch Ophthalmol* 1978;96:2054-7.
- [169] Itabashi R, Katsumi O, Mehta MC, et al. Stargardt's disease/fundus flavimaculatus: Psychophysical and electrophysiologic results. *Graefes Arch Clin Exp Ophthalmol* 1993;231:555-62.
- [170] Irvine AR, Wergeland Jr FL. Stargardt's hereditary progressive macular degeneration. *Br J Ophthalmol* 1972;56:817-26.
- [171] Hadden OB. Gass JDM. Fundus flavimaculatus and Stargardt's disease. *Am J Ophthalmol* 1976;82:527-39.
- [172] Gelisken O, De Laey JJ. A clinical review of Stargardt's disease and/or fundus flavimaculatus with follow-up. *Int Ophthalmol* 1985;8:225-36.
- [173] Fishman GA. Fundus flavimaculatus; a clinical classification. *Arch Ophthalmol* 1976;94:2061-7.
- [174] Fish G, Grey R, Sehmi KS, et al. The dark choroid in posterior retinal dystrophies. *Br J Ophthalmol* 1981;65:359-63.
- [175] Ernest JT, Krill AE. Fluorescein studies in fundus flavimaculatus and drusen. *Am J Ophthalmol* 1966;62:1-6.
- [176] Doka DS, Fishman GA, Anderson RJ. Refractive errors in patients with fundus flavimaculatus. *Br J Ophthalmol* 1982;66:227-9.

- [177] Deutman AF. The hereditary dystrophies of the posterior pole of the eye. Assen: Van Gorcum; 1971. p. 100.
- [178] Bonnin P, Passot M, Triolaire-Cotten M-T. Le signe du silence choroidien dans les dégénérescences tapéto-rétiniennes postérieures. *Doc Ophthalmol Proc Ser* 1976;9:461-3.
- [179] Anmarkrud N. Fundus fluorescein angiography in fundus flavimaculatus and Stargardt's disease. *Acta Ophthalmol* 1979;57:172-82.
- [180] Iijima H, Gohdo T, Hosaka O. Fundus flavimaculatus with severely reduced cone electroretinogram. *Jpn J Ophthalmol* 1992;36:249-56.
- [181] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 256-57.
- [182] Fishman GA, Farberman JS, Alexander KR. Delayed rod dark adaptation in patients with Stargardt's disease. *Ophthalmology* 1991;98:957-62.
- [183] Stone EM, Nichols BE, Kimura AE, et al. Clinical features of a Stargardt-like dominant progressive macular dystrophy with genetic linkage to chromosome 6q. *Arch Ophthalmol* 1994;112:765-72.
- [184] Zhang K, Bither PP, Park R, et al. A dominant Stargardt's macular dystrophy locus maps to chromosome 13q34. *Arch Ophthalmol* 1994;112:759-64.
- [185] Fishman GA, Farber M, Patel BS, et al. Visual acuity loss in patients with Stargardt's macular dystrophy. *Ophthalmology* 1987;94:809-14.
- [186] Fonda G, Gardner LR. Characteristics and low vision corrections in Stargardt's disease: educational and vocational achievements enhanced by low vision corrections. *Ophthalmology* 1985;92:1084-91.
- [187] McMahon TT, Maino JH, Farber MD. Treatment of low vision in fundus flavimaculatus. *Arch Ophthalmol* 1985;103:1325-8.
- [188] Szlyk JP, Fishman GA, Severing K, et al. Evaluation of driving performance in patients with juvenile macular dystrophies. *Arch Ophthalmol* 1993;111:207-12.
- [189] Maumenee IH, Maumenee AE, editors. Fundus flavimaculatus; clinical, genetic, and pathologic observations, Blutkreislauf in der Uvea, in der Netzhaut und im Sehnerven (Physiologie und Pathologie). 5th Congress of the European Society of Ophthalmology, April 5-9, 1976. Hamburg: Stuttgart, Enke; 1978. p. 80-2.
- [190] Del Buey MA, Huerva V, Minguez E, et al. Posttraumatic reaction in a case of fundus flavimaculatus with atrophic macular degeneration. *Ann Ophthalmol* 1993;25:219-21.
- [191] Cibis GW, Morey M, Harris DJ. Dominantly inherited macular dystrophy with flecks (Stargardt). *Arch Ophthalmol* 1980;98:1785-9.
- [192] Kaplan J, Gerber S, Larget-Piet D, et al. A gene for Stargardt's disease (fundus flavimaculatus) maps to the short arm of chromosome 1. *Nat Genet* 1993;5:308-11. [erratum, 1994;6:214.]
- [193] Mansour AM. Long-term follow-up of dominant macular dystrophy with flecks (Stargardt). *Ophthalmologica* 1992;205:138-43.
- [194] Gass JDM, Weleber RG, Johnson DR. Non-Hodgkin's lymphoma causing fundus picture simulating fundus flavimaculatus. *Retina* 1987;7:209-14.
- [195] Lotery AJ, Silvestri G, Collins AD. Electrophysiology findings in a large family with central areolar choroidal dystrophy. *Doc Ophthalmol* 1998;97:103-19.
- [196] Hartley KL, Blodi BA, VerHoeve JN. Use of the multifocal electroretinogram in the evaluation of a patient with central areolar choroidal dystrophy. *Am J Ophthalmol* 2002;133:852-4.
- [197] Mansour AM. Central areolar choroidal dystrophy in a family with pseudoachondroplastic spondyloepiphyseal dysplasia. *Ophthalmic Paediatr Genet* 1988;9:57-65.
- [198] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 156.
- [199] Fetkenhour CL, Gurney N, Dobbie JG, et al. Central areolar pigment epithelial dystrophy. *Am J Ophthalmol* 1976;81:745-53.
- [200] Noble KG. Central areolar choroidal dystrophy. *Am J Ophthalmol* 1977;84:310-8.
- [201] Sorsby A, Crick RP. Central areolar choroidal sclerosis. *Br J Ophthalmol* 1953;37:129-39.
- [202] Ashton N. Central areolar choroidal sclerosis; a histo-pathological study. *Br J Ophthalmol* 1953;37:140-7.
- [203] Ouechtati F, Belhadj Tahar O, Mhenni A, et al. Central areolar choroidal dystrophy associated with inherited drusen in a multigeneration Tunisian family: exclusion of the PRPH2 gene and the 17p13 locus. *J Hum Genet* 2009;54:589-94.
- [204] Boon CJ, Klevering BJ, Cremers FP, et al. Central areolar choroidal dystrophy. *Ophthalmology* 2009;116:771-82, e1.
- [205] Klevering BJ, Blankenagel A, Maugeri A, et al. Phenotypic spectrum of autosomal-recessive cone-rod dystrophies caused by mutations in the ABCA4 (ABCR) gene. *Invest Ophthalmol Vis Sci* 2002;43:1980-5.
- [206] Keilhauer CN, Meigen T, Weber BH. Clinical findings in a multigeneration family with autosomal-dominant central areolar choroidal dystrophy associated with an Arg195Leu mutation in the peripherin/RDS gene. *Arch Ophthalmol* 2006;124:1020-7.
- [207] Duvall-Young J, MacDonald MK, McKechnie NM. Fundus changes in (type II) mesangiocapillary glomerulonephritis simulating drusen: a histopathological report. *Br J Ophthalmol* 1989;73:297-302.
- [208] Duvall-Young J, Short CD, Raines MF, et al. Fundus changes in mesangiocapillary glomerulonephritis findings. *Br J Ophthalmol* 1989;73:900-6.
- [209] Kim DD, Mieler WF, Wolf MD. Posterior segment changes in membranoproliferative glomerulonephritis. *Am J Ophthalmol* 1992;114:593-9.
- [210] Leys A, Michielsen B, Leys M, et al. Subretinal neovascular membranes associated with chronic membranoproliferative glomerulonephritis type II. *Graefes Arch Clin Exp Ophthalmol* 1990;228:499-504.
- [211] Leys A, Vanrenterghem Y, Van Damme B. Fundus changes in membranoproliferative glomerulonephritis type II: A fluorescein angiographic study of 23 patients. *Graefes Arch Clin Exp Ophthalmol* 1991;229:406-10.
- [212] Leys A, Vanrenterghem Y, Van Damme B, et al. Sequential observation of fundus changes in patients with long standing membranoproliferative glomerulonephritis type II (MPGN type II). *Eur J Ophthalmol* 1991;1:17-22.
- [213] Raines MF, Duvall-Young J, Short CD. Fundus changes in mesangiocapillary glomerulonephritis type II: Vitreous fluorophotometry. *Br J Ophthalmol* 1989;73:907-10.
- [214] Ulbig MRW, Riordan-Eva P, Holz FG, et al. Membranoproliferative glomerulonephritis type II associated with central serous retinopathy. *Am J Ophthalmol* 1993;116:410-3.
- [215] McAvoy CE, Silvestri G. Retinal changes associated with type 2 glomerulonephritis. *Eye* 2005;19:985-9.
- [216] Awan MA, Grierson DJ, Walker S. Bilateral macular sub-retinal fluid and retinal pigment epithelial detachment associated with type 2 membrano-proliferative glomerulonephritis. *Clin Exp Optom* 2008;91:476-9.
- [217] Boon CJ, van de Kar NC, Klevering BJ, et al. The spectrum of phenotypes caused by variants in the CFH gene. *Mol Immunol* 2009;46:1573-94.
- [218] Mandal MN, Ayyagari R. Complement factor H: spatial and temporal expression and localization in the eye. *Invest*

- Ophthalmol Vis Sci 2006;47:4091–7.
- [219] Xing C, Sivakumaran TA, Wang JJ, et al. Complement factor H polymorphisms, renal phenotypes and age-related macular degeneration: the Blue Mountains Eye Study. *Genes Immun* 2008;9:231–9.
- [220] Forni S, Babel J. Etude clinique et histologique de la malattia leventinese; affection appartenant au groupe de dégénérescences hyalines du pôle postérieur. *Ophthalmologica* 1962;143:313–22.
- [221] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 96–97.
- [222] Haimovici R, Wroblewski J, Piguet B, et al. Symptomatic abnormalities of dark adaptation in patients with EFEMP1 retinal dystrophy (Malattia Leventinese/Doyle honeycomb retinal dystrophy). *Eye* 2002;16:7–15.
- [223] Miyanaga Y, Mizutani T, Yamanishi R. A pedigree of Doyle's honeycomb macular degeneration. *Jpn J Clin Ophthalmol* 1977;31:431–5.
- [224] Piguet B, Haimovici R, Bird AC. Dominantly inherited drusen represent more than one disorder: a historical review. *Eye* 1995;9:34–41.
- [225] Evans K, Gregory CY, Wijesuriya SD, et al. Assessment of the phenotypic range seen in Doyle honeycomb retinal dystrophy. *Arch Ophthalmol* 1997;115:904–10.
- [226] Souied EH, Leveziel N, Querques G, et al. Indocyanine green angiography features of malattia leventinese. *Br J Ophthalmol* 2006;90:296–300.
- [227] Gerth C, Zawadzki RJ, Werner JS, et al. Retinal microstructure in patients with EFEMP1 retinal dystrophy evaluated by Fourier domain OCT. *Eye* 2009;23:480–3.
- [228] Souied EH, Leveziel N, Letien V, et al. Optical coherent tomography features of malattia leventinese. *Am J Ophthalmol* 2006;141:404–7.
- [229] Pager CK, Sarin LK, Federman JL, et al. Malattia leventinese presenting with subretinal neovascular membrane and hemorrhage. *Am J Ophthalmol* 2001;131:517–8.
- [230] Dantas MA, Slakter JS, Negrao S, et al. Photodynamic therapy with verteporfin in malattia leventinese. *Ophthalmology* 2002;109:296–301.
- [231] Streicher T, Krcmery K. Das fluoreszenzangiographische Bild der hereditären Drusen. *Klin Monatsbl Augenheilkd* 1976;169:22–30.
- [232] Dusek J, Streicher T, Schmidt K. Hereditäre Drusen der Bruchschichten Membran. II. Untersuchung von Semidünnschnitten und elektronenmikroskopischen Ergebnissen. *Klin Monatsbl Augenheilkd* 1982;181:79–83.
- [233] Toto L, Parodi MB, Baralle F, et al. Genetic heterogeneity in Malattia Leventinese. *Clin Genet* 2002;62:399–403.
- [234] Stone EM, Lotery AJ, Munier FL, et al. A single EFEMP1 mutation associated with both malattia leventinese and Doyle honeycomb retinal dystrophy. *Nat Genet* 1999;22:199–202.
- [235] Fu L, Garland D, Yang Z, et al. The R345W mutation in EFEMP1 is pathogenic and causes AMD-like deposits in mice. *Hum Mol Genet* 2007;16:2411–22.
- [236] Matsumoto M, Traboulsi EI. Dominant radial drusen and Arg345Trp EFEMP1 mutation. *Am J Ophthalmol* 2001;131:810–2.
- [237] Lefler WH, Wadsworth JAC, Sidbury Jr JB. Hereditary macular degeneration and amino-aciduria. *Am J Ophthalmol* 1971;71:224–30.
- [238] Frank HR, Landers III MB, Williams RJ, et al. A new dominant progressive foveal dystrophy. *Am J Ophthalmol* 1974;78:903–16.
- [239] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 74.
- [240] Small KW, Killian J, McLean WC. North Carolina's dominant progressive foveal dystrophy: how progressive is it? *Br J Ophthalmol* 1991;75:401–6.
- [241] Rohrschneider K, Blankenagel A, Kruse FE, et al. Macular function testing in a German pedigree with North Carolina macular dystrophy. *Retina* 1998;18:453–9.
- [242] Reichel MB, Kelsell RE, Fan J, et al. Phenotype of a British North Carolina macular dystrophy family linked to chromosome 6q. *Br J Ophthalmol* 1998;82:1162–8.
- [243] Small KW, Puech B, Mullen L, et al. North Carolina macular dystrophy phenotype in France maps to the MCDR1 locus. *Mol Vis* 1997;3:1.
- [244] Rabb MF, Mullen L, Yelchits S, et al. A North Carolina macular dystrophy phenotype in a Belizean family maps to the MCDR1 locus. *Am J Ophthalmol* 1998;125:502–8.
- [245] Kim SJ, Woo SJ, Yu HG. A Korean family with an early-onset autosomal-dominant macular dystrophy resembling North Carolina macular dystrophy. *Korean J Ophthalmol* 2006;20:220–4.
- [246] Khurana RN, Sun X, Pearson E, et al. A reappraisal of the clinical spectrum of North Carolina macular dystrophy. *Ophthalmology* 2009;116:1976–83.
- [247] Freedman J, Gombos GM. Bilateral macular coloboma, keratoconus, and retinitis pigmentosa. *Ann Ophthalmol* 1971;3:664–8.
- [248] Heckenlively JR, Foxman SG, Parelhoff ES. Retinal dystrophy and macular coloboma. *Doc Ophthalmol* 1988;68:257–71.
- [249] Murayama K, Adachi-Usami E. Bilateral macular colobomas in Leber's congenital amaurosis. *Doc Ophthalmol* 1989;72:118–88.
- [250] Car A. Mikrozephalie und beiderseitiges Kolobom im Bereiche der Makula. *Z Augenheilkd* 1925;57:618–30.
- [251] Clarke E. Coloboma at the macula (both eyes). *Br J Ophthalmol* 1927;11:97–9.
- [252] Clausen W. Typisches, beiderseitiges hereditäres Makula-Kolobom. *Klin Monatsbl Augenheilkd* 1921;67:116.
- [253] Clausen W. Zur Frage der Vererbung der Makulakolobom. *Klin Monatsbl Augenheilkd* 1928;81:385.
- [254] Goodman G, Ripps H, Siegel IM. Cone dysfunction syndromes. *Arch Ophthalmol* 1963;70:214–31.
- [255] Klein R, Bresnick G. An inherited central retinal pigment epithelial dystrophy. *Birth Defects* 1982;18:281–96.
- [256] Margolis S, Scher BM, Carr RE. Macular colobomas in Leber's congenital amaurosis. *Am J Ophthalmol* 1977;83:27–31.
- [257] Phillips CI, Griffiths DL. Macular coloboma and skeletal abnormality. *Br J Ophthalmol* 1969;53:346–9.
- [258] Sorsby A. Congenital coloboma of the macula: together with an account of the familial occurrence of bilateral macular coloboma in association with apical dystrophy of hands and feet. *Br J Ophthalmol* 1935;19:65–90.
- [259] Leveille AS, Morse PH, Kiernan JP. Autosomal-dominant central pigment epithelial and choroidal degeneration. *Ophthalmology* 1982;89:1407–13.
- [260] Miller SA, Bresnick G. Familial bilateral macular colobomata. *Br J Ophthalmol* 1978;62:261–4.
- [261] Hermsen VM, Judisch GF. Central areolar pigment epithelial dystrophy. *Ophthalmologica* 1984;189:69–72.
- [262] Small KW, Hermsen V, Gurney N, et al. North Carolina macular dystrophy and central areolar pigment epithelial dystrophy; one family, one disease. *Arch Ophthalmol* 1992;110:515–8.
- [263] Satorre J, López JM, Martínez J, et al. Dominant macular colobomata. *J Pediatr Ophthalmol Strabismus* 1990;27:148–52.
- [264] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 98–9, 264–65.
- [265] Michaelides M, Johnson S, Tekriwal AK, et al. An early-onset autosomal-dominant macular dystrophy (MCDR3) resembling North Carolina macular dystrophy maps to chromosome 5. *Invest*



- Ophthalmol Vis Sci 2003;44:2178–83.
- [266] Francis PJ, Johnson S, Edmunds B, et al. Genetic linkage analysis of a novel syndrome comprising North Carolina-like macular dystrophy and progressive sensorineural hearing loss. *Br J Ophthalmol* 2003;87:893–8.
- [267] Kniazeva M, Traboulsi EI, Yu Z, et al. A new locus for dominant drusen and macular degeneration maps to chromosome 6q14. *Am J Ophthalmol* 2000;130:197–202.
- [268] Brodsky MC, Ford RE, Bradford JD. Subretinal neovascular membrane in an infant with a retinochoroidal coloboma. *Arch Ophthalmol* 1991;109:1650–1.
- [269] Leff SR, Britton Jr WA, Brown GC, et al. Retinochoroidal coloboma associated with subretinal neovascularization. *Retina* 1985;5:154–6.
- [270] Maberley AL, Gottner MJ, Antworth MV. Subretinal neovascularization associated with retinochoroidal colobomas. *Can J Ophthalmol* 1989;24:172–4.
- [271] Rouland J-F, Hochart G, Constantinides G. Colobome choroïdien et membrane néovasculaire. *Bull Soc Ophthalmol Fr* 1990;90:643–4.
- [272] Steahly LP. Laser treatment of a subretinal neovascular membrane associated with a retinochoroidal coloboma. *Retina* 1986;6:154–6.
- [273] Gass JDM, Blodi BA. Idiopathic juxtafoveolar retinal telangiectasis; update of classification and follow-up study. *Ophthalmology* 1993;100:1536–46.
- [274] Sorsby A, Joll Mason ME, Gardener N. A fundus dystrophy with unusual features (late onset and dominant inheritance of a central retinal lesion showing oedema, haemorrhage and exudates developing into generalised choroidal atrophy with massive pigment proliferation). *Br J Ophthalmol* 1949;33:67–97.
- [275] Ashton N, Sorsby A. Fundus dystrophy with unusual features; a histological study. *Br J Ophthalmol* 1951;35:751–64.
- [276] Capon MRC, Polkinghorne PJ, Fitzke FW, et al. Sorsby's pseudoinflammatory macular dystrophy – Sorsby's fundus dystrophies. *Eye* 1988;2:114–22.
- [277] Capon MRC, Marshall J, Krafft JI, et al. Sorsby's fundus dystrophy; a light and electron microscopic study. *Ophthalmology* 1989;96:1769–77.
- [278] Dreyer RF, Hidayat AA. Pseudoinflammatory macular dystrophy. *Am J Ophthalmol* 1988;106:154–61.
- [279] Hoskin A, Sehmi K, Bird AC. Sorsby's pseudoinflammatory macular dystrophy. *Br J Ophthalmol* 1981;65:859–65.
- [280] Forsius HR, Eriksson AW, Suvanto EA, et al. Pseudoinflammatory fundus dystrophy with autosomal-recessive inheritance. *Am J Ophthalmol* 1982;94:634–49.
- [281] Balyeat RM, Kingsley RM. Dominant macular subretinal neovascularization with peripheral retinal degeneration. *Ophthalmology* 1987;94:1140–7.
- [282] Hamilton WK, Ewing CC, Ives IJ, et al. Sorsby's fundus dystrophy. *Ophthalmology* 1989;96:1755–62.
- [283] Wu G, Pruett RC, Baldinger J, et al. Hereditary hemorrhagic macular dystrophy. *Am J Ophthalmol* 1991;111:294–301.
- [284] Steinmetz RL, Polkinghorne PC, Fitzke FW, et al. Abnormal dark adaptation and rhodopsin kinetics in Sorsby's fundus dystrophy. *Invest Ophthalmol Vis Sci* 1992;33:1633–6.
- [285] Carr RE, Noble KG, Nasaduke I. Hereditary hemorrhagic macular dystrophy. *Am J Ophthalmol* 1978;85:318–28.
- [286] Deutman AF. The hereditary dystrophies of the posterior pole of the eye. Assen, The Netherlands: Van Gorcum; 1971. p. 400.
- [287] Polkinghorne PJ, Capon MRC, Berninger T, et al. Sorsby's fundus dystrophy; a clinical study. *Ophthalmology* 1989;96:1763–8.
- [288] Weber BHF, Vogt G, Pruett RC, et al. Mutations in the tissue inhibitor of metalloproteinases-3 (TIMP3) in patients with Sorsby's fundus dystrophy. *Nat Genet* 1994;8:352–6.
- [289] Majid MA, Smith VA, Newby AC, et al. Matrix bound SFD mutant TIMP-3 is more stable than wild type TIMP-3. *Br J Ophthalmol* 2007;91:1073–6.
- [290] Majid MA, Smith VA, Matthews FJ, et al. Tissue inhibitor of metalloproteinase-3 differentially binds to components of Bruch's membrane. *Br J Ophthalmol* 2006;90:1310–5.
- [291] Li Z, Clarke MP, Barker MD, et al. TIMP3 mutation in Sorsby's fundus dystrophy: molecular insights. *Expert Rev Mol Med* 2005;7:1–15.
- [292] Clarke M, Mitchell KW, Goodship J, et al. Clinical features of a novel TIMP-3 mutation causing Sorsby's fundus dystrophy: implications for disease mechanism. *Br J Ophthalmol* 2001;85:1429–31.
- [293] Chong NH, Alexander RA, Gin T, et al. TIMP-3, collagen, and elastin immunohistochemistry and histopathology of Sorsby's fundus dystrophy. *Invest Ophthalmol Vis Sci* 2000;41:898–902.
- [294] Wijesuriya SD, Evans K, Jay MR, et al. Sorsby's fundus dystrophy in the British Isles: demonstration of a striking founder effect by microsatellite-generated haplotypes. *Genome Res* 1996;6:92–101.
- [295] Chen W, Stambolian D, Edwards AO, et al. Genetic variants near TIMP3 and high-density lipoprotein-associated loci influence susceptibility to age-related macular degeneration. *Proc Natl Acad Sci U S A* 2010;107:7401–6.
- [296] Coppeto J, Ayazi S. Annular macular dystrophy. *Am J Ophthalmol* 1982;93:279–84.
- [297] Deutman AF. Benign concentric annular macular dystrophy. *Am J Ophthalmol* 1974;78:384–96.
- [298] van den Biesen PR, Deutman AF, Pinckers AJLG. Evolution of benign concentric annular macular dystrophy. *Am J Ophthalmol* 1985;100:73–8.
- [299] Weise EE, Yannuzzi LA. Ring maculopathies mimicking chloroquine retinopathy. *Am J Ophthalmol* 1974;78:204–10.
- [300] van Lith-Verhoeven JJ, Hoyng CB, van den Helm B, et al. The benign concentric annular macular dystrophy locus maps to 6p12.3-q16. *Invest Ophthalmol Vis Sci* 2004;45:30–5.
- [301] Miyake Y, Shiroyama N, Horiguchi M, et al. Bull's-eye maculopathy and negative electroretinogram. *Retina* 1989;9:210–5.
- [302] Babel J. Les choroïdopathies géographiques et hélicoïdales. Etude clinique et angiographique; essai de classification. *J Fr Ophthalmol* 1983;6:981–93.
- [303] Brazitikos PD, Safran AB. Helicoid peripapillary chorioretinal degeneration. *Am J Ophthalmol* 1990;109:290–4.
- [304] Franceschetti A. A curious affection of the fundus oculi: helicoid peripapillary chorioretinal degeneration. Its relation to pigmentary paravenous chorioretinal degeneration. *Doc Ophthalmol Proc Ser* 1962;16:81–110.
- [305] Rubino A. Su una particolare anomalia bilaterale e simmetrica dello strato pigmentato retinico. *Boll Oculist* 1940;19:318–22.
- [306] Sveinsson K. Choroiditis areata. *Acta Ophthalmol* 1939;17:73–80.
- [307] Sveinsson K. Helicoidal peripapillary chorioretinal degeneration. *Acta Ophthalmol* 1979;57:69–75.
- [308] Fossdal R, Jonasson F, Kristjansdottir GT, et al. A novel TEAD1 mutation is the causative allele in Sveinsson's chorioretinal atrophy (helicoid peripapillary chorioretinal degeneration). *Hum Mol Genet* 2004;13:975–81.
- [309] Fossdal R, Magnusson L, Weber JL, et al. Mapping the locus of atrophy areata, a helicoid peripapillary chorioretinal degeneration with autosomal-dominant inheritance, to chromosome 11p15. *Hum Mol Genet* 1995;4:479–83.

- [310] Falls HF, Wolter JR, Alpern M. Typical total monochromacy; a histological and psychophysical study. *Arch Ophthalmol* 1965;74:610–6.
- [311] Glickstein M, Heath GG. Receptors in the monochromat eye. *Vision Res* 1975;15:633–6.
- [312] Wiszniewski W, Lewis RA, Lupski JR. Achromatopsia: the CNGB3 p.T383fsX mutation results from a founder effect and is responsible for the visual phenotype in the original report of uniparental disomy 14. *Hum Genet* 2007;121:433–9.
- [313] Michaelides M, Holder GE, Hunt DM, et al. A detailed study of the phenotype of an autosomal-dominant cone–rod dystrophy (CORD7) associated with mutation in the gene for RIM1. *Br J Ophthalmol* 2005;89:198–206.
- [314] Michaelides M, Holder GE, Bradshaw K, et al. Cone–rod dystrophy, intrafamilial variability, and incomplete penetrance associated with the R172W mutation in the peripherin/RDS gene. *Ophthalmology* 2005;112:1592–8.
- [315] Lewis RA, Holcomb JD, Bromley WC, et al. Mapping X-linked ophthalmic diseases. III. Provisional assignment of the locus for blue cone monochromacy to Xq28. *Arch Ophthalmol* 1987;105:1055–9.
- [316] Krill AE, Smith VC, Pokorny J. Further studies supporting the identity of congenital tritanopia and hereditary dominant optic atrophy. *Invest Ophthalmol* 1971;10:457–65.
- [317] Zervas JP, Smith JL. Neuro-ophthalmic presentation of cone dysfunction syndromes in the adult. *J Clin Neuro-Ophthalmol* 1987;7:202–18.
- [318] Went LN, van Schooneveld MJ, Oosterhuis JA. Late onset dominant cone dystrophy with early blue cone involvement. *J Med Genet* 1992;29:295–8.
- [319] van Schooneveld MJ, Went LN, Oosterhuis JA. Dominant cone dystrophy starting with blue cone involvement. *Br J Ophthalmol* 1991;75:332–6.
- [320] van Everdingen JAM, Went LN, Keunen JEE, et al. X-linked progressive cone dystrophy with specific attention to carrier detection. *J Med Genet* 1992;29:291–4.
- [321] Stoumbos VD, Weleber RG, Kennaway NG. Normal  $\alpha$ -1-fucosidase and other lysosomal enzyme activities in progressive cone dystrophy. *Am J Ophthalmol* 1988;106:11–16.
- [322] Siegel IM, Smith BF. Acquired cone dysfunction. *Arch Ophthalmol* 1967;77:8–13.
- [323] Reichel E, Bruck AM, Sandberg MA, et al. An electroretinographic and molecular genetic study of X-linked cone degeneration. *Am J Ophthalmol* 1989;108:540–7.
- [324] Pinckers A. Dominant cone dystrophy starting with blue cone involvement. *Br J Ophthalmol* 1992;76:127.
- [325] Pinckers A, Deutman AF. Peripheral cone disease. *Ophthalmologica* 1977;174:145–50.
- [326] Pinckers A, Deutman AF. X-linked cone dystrophy; an overlooked diagnosis? *Int Ophthalmol* 1987;10:241–3.
- [327] Pearlman JT, Owen WG, Brounley DW. Cone dystrophy with dominant inheritance. *Am J Ophthalmol* 1974;77:293–303.
- [328] Ohba N. Progressive cone dystrophy: Four cases of unusual form. *Jpn J Ophthalmol* 1974;18:50–69.
- [329] Noble KG, Siegle IM, Carr RE. Progressive peripheral cone dystrophy. *Am J Ophthalmol* 1988;106:557–60.
- [330] Krill AE, Deutman AF, Fishman M. The cone degenerations. *Doc Ophthalmol* 1973;35:1–80.
- [331] Krill AE, Deutman AF. Dominant macular degenerations: the cone dystrophies. *Am J Ophthalmol* 1972;73:352–69.
- [332] Keunen JEE, van Everdingen JAM, Went LN, et al. Color matching and foveal densitometry in patients and carriers of an X-linked progressive cone dystrophy. *Arch Ophthalmol* 1990;108:1713–9.
- [333] Jacobson DM, Thompson HS, Bartley JA. X-linked progressive cone dystrophy; clinical characteristics of affected males and female carriers. *Ophthalmology* 1989;96:885–95.
- [334] Isashiki Y, Ohba N, Nakagawa M, et al. Antibodies against human retinal proteins in serum from patients with cone dystrophy. *Jpn J Ophthalmol* 1992;36:323–30.
- [335] Heckenlively JR, Weleber RG. X-linked recessive cone dystrophy with tapetal-like sheen; a newly recognized entity with Mizuo–Nakamura phenomenon. *Arch Ophthalmol* 1986;104:1322–8.
- [336] Hayasaka S, Nakazawa M, Okabe H, et al. Progressive cone dystrophy associated with low  $\alpha$ -1-fucosidase activity in serum and leukocytes. *Am J Ophthalmol* 1985;99:681–5.
- [337] Hamilton SR, Chatrian G-E, Mills RP, et al. Cone dysfunction in a subgroup of patients with autosomal-dominant cerebellar ataxia. *Arch Ophthalmol* 1990;108:551–6.
- [338] Grey RHB, Blach RK, Barnard WM. Bull’s eye maculopathy with early cone degeneration. *Br J Ophthalmol* 1977;61:702–18.
- [339] Gouras P, Eggers HM, MacKay CJ. Cone dystrophy, nyctalopia, and supernormal rod responses; a new retinal degeneration. *Arch Ophthalmol* 1983;101:718–24.
- [340] François J, De Rouck A, Verriest G, et al. Progressive generalized cone dysfunction. *Ophthalmologica* 1974;169:255–84.
- [341] Foerster MH, Kellner U, Wessing A. Cone dystrophy and supernormal dark-adapted b-waves in the electroretinogram. *Graefes Arch Clin Exp Ophthalmol* 1990;228:116–9.
- [342] Bresnick GH, Smith VC, Pokorny J. Autosomal-dominantly inherited macular dystrophy with preferential short-wavelength sensitive cone involvement. *Am J Ophthalmol* 1989;108:265–76.
- [343] Berson EL, Gouras P, Gunkel RD. Progressive cone degeneration, dominantly inherited. *Arch Ophthalmol* 1968;80:77–83.
- [344] Babel J, Stangos N. Progressive degeneration of the photopic system. *Am J Ophthalmol* 1973;75:511–25.
- [345] Babel J, Stangos N. Dégénérescence progressive du système photopique. *Ophthalmologica* 1972;165:392–5.
- [346] Alexander KR, Fishman GA. Supernormal scotopic ERG in cone dystrophy. *Br J Ophthalmol* 1984;68:69–78.
- [347] Berson EL, Gouras P, Gunkel RD. Progressive cone–rod degeneration. *Arch Ophthalmol* 1968;80:68–76.
- [348] Wang NK, Fine HF, Chang S, et al. Cellular origin of fundus autofluorescence in patients and mice with a defective NR2E3 gene. *Br J Ophthalmol* 2009;93:1234–40.
- [349] Forsius H, Erkkilä H, Eriksson AW. Rod–cone dystrophy of the retina; continuation of a family study described in 1923. *Acta Ophthalmol* 1990;68:2–10.
- [350] Buchanan TAS, Gardeiner TA, de Jesus V, et al. Retinal ultrastructural findings in cone degeneration. *Am J Ophthalmol* 1988;106:405–13.
- [351] Robson AG, Webster AR, Michaelides M, et al. “Cone dystrophy with supernormal rod electroretinogram”: a comprehensive genotype/phenotype study including fundus autofluorescence and extensive electrophysiology. *Retina* 2010;30:51–62.
- [352] Small KW, Silva-Garcia R, Udar N, et al. New mutation, P575L, in the GUCY2D gene in a family with autosomal-dominant progressive cone degeneration. *Arch Ophthalmol* 2008;126:397–403.
- [353] Langwinska-Wosko E, Szulborski K, Broniek-Kowalik K. Late onset cone dystrophy. *Doc Ophthalmol* 2010;120:215–8.
- [354] Rowe SE, Trobe JD, Sieving PA. Idiopathic photoreceptor dysfunction causes unexplained visual acuity loss in later adulthood. *Ophthalmology* 1990;97:1632–7.
- [355] Noble KG, Margolis S, Carr RE. The golden tapetal sheen reflex in retinal disease. *Am J Ophthalmol* 1989;107:211–7.
- [356] Noble KG, Sherman J. Central pigmentary sheen dystrophy. *Am J Ophthalmol* 1989;108:255–9.

- [357] Slagsvold JE. Fenestrated sheen macular dystrophy. A new autosomal-dominant maculopathy. *Acta Ophthalmol (Copenh)* 1981;59:683–8.
- [358] O'Donnell FE, Welch RB. Fenestrated sheen macular dystrophy. *Arch Ophthalmol* 1980;98:575.
- [359] O'Donnell Jr FE, Welch RB. Fenestrated sheen macular dystrophy. A new autosomal-dominant maculopathy. *Arch Ophthalmol* 1979;97:1292–6.
- [360] Daily MJ, Mets MB. Fenestrated sheen macular dystrophy. *Arch Ophthalmol* 1984;102:855–6.
- [361] Sneed SR, Sieving PA. Fenestrated sheen macular dystrophy. *Am J Ophthalmol* 1991;112:1–7.
- [362] Timothy D, Polk J, Donald M, Gass W, Richard Green, et al. Familial Internal Limiting Membrane Dystrophy A New Sheen Retinal Dystrophy. *Arch Ophthalmol* 1997;115:878–885.
- [363] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 266.
- [364] Gilbert Jr WR, Smith JL, Nyhan WL. The Sjögren–Larsson syndrome. *Arch Ophthalmol*. 1968;80:308–16.
- [365] Kelson TL, Craft DA, Rizzo WB. Carrier detection for Sjogren–Larsson syndrome. *J Inherit Metab Dis* 1992;15:105–11.
- [366] Nilsson SEG, Jagel S. Lipofuscin and melanin content of the retinal pigment epithelium in a case of Sjögren–Larsson syndrome. *Br J Ophthalmol* 1987;71:224–6.
- [367] Sjögren T, Larsson T. Oligophrenia in combination with congenital ichthyosis and spastic disorders; a clinical and genetic study. *Acta Psychiatr Neurol Scand Suppl* 1957;113:32–44.
- [368] Mirshahi A, Piri N. Fundus autofluorescence changes in two cases of Sjogren–Larsson syndrome. *Int Ophthalmol* 2008 Oct 2.
- [369] Fuijkschot J, Cruysberg JR, Willemsen MA, et al. Subclinical changes in the juvenile crystalline macular dystrophy in Sjogren–Larsson syndrome detected by optical coherence tomography. *Ophthalmology* 2008;115:870–5.
- [370] van der Veen RL, Fuijkschot J, Willemsen MA, et al. Patients with Sjogren–Larsson syndrome lack macular pigment. *Ophthalmology* 2010;117:966–71.
- [371] Willemsen MA, Cruysberg JR, Rotteveel JJ, et al. Juvenile macular dystrophy associated with deficient activity of fatty aldehyde dehydrogenase in Sjogren–Larsson syndrome. *Am J Ophthalmol* 2000;130:782–9.
- [372] Aslam SA, Sheth HG. Ocular features of Sjogren–Larsson syndrome. *Clin Experiment Ophthalmol* 2007;35:98–9.
- [373] Aicardi J, Lefebvre J, Lericque-Koechlin A. A new syndrome: spasm in flexion, callosal agenesis, ocular abnormalities. *Electroenceph Clin Neurophysiol* 1965;19:609–10.
- [374] Aicardi J, Chevrie J-J, Rousselle E. Le syndrome spasmes en flexion, agenesie calleuse, anomalies chorio-retiniennes. *Arch Fr Pediatr* 1969;26:1103–20.
- [375] Del Pero RA, Mets MB, Tripathi RC, et al. Anomalies of retinal architecture in Aicardi syndrome. *Arch Ophthalmol* 1986;104:1659–64.
- [376] Déodati F, Bec P, Carrière J-P, et al. Manifestations ophthalmologiques du syndrome d'Aicardi. *Bull Soc Ophtalmol Fr* 1973;73:161–4.
- [377] Font RL, Marines HM, Cartwright Jr J, et al. Aicardi syndrome; a clinicopathologic case report including electron microscopic observations. *Ophthalmology* 1991;98:1727–31.
- [378] Gloor P, Pulido JS, Judisch GF. Magnetic resonance imaging and fundus findings in a patient with Aicardi's syndrome. *Arch Ophthalmol* 1989;107:922–3.
- [379] Hoyt CS, Billson F, Ouvrier R, et al. Ocular features of Aicardi's syndrome. *Arch Ophthalmol* 1978;96:291–5.
- [380] Limnaios EE, Panayiotopoulos CP, Theodosiadis G, et al. Ophthalmologic features of Aicardi's syndrome: report of two cases. *Br J Ophthalmol* 1979;63:713–7.
- [381] Tillmann W, von Bernuth H. Das Aicardi-Syndrom. *Klin Monatsbl Augenheilkd* 1975;167:496–9.
- [382] Weleber RG, Lovrien EW, Isom JB. Aicardi's syndrome; case report, clinical features, and electrophysiologic studies. *Arch Ophthalmol* 1978;96:285–90.
- [383] Carney SH, Brodsky MC, Good WV, et al. Aicardi syndrome: more than meets the eye. *Surv Ophthalmol* 1993;37:419–24.
- [384] Singhi PD, Gupta A, Agarwal A. Aicardi syndrome. *Indian Pediatr* 1991;28:1513–6.
- [385] Frye RE, Polling JS, Ma LC. Choroid plexus papilloma expansion over 7 years in Aicardi syndrome. *J Child Neurol* 2007;22:484–7.
- [386] Mutlu FM, Akin R, Uysal Y, et al. Aicardi syndrome: an unusual case associated with pineal gland cyst and ventricular septal defect. *J Child Neurol* 2006;21:1082–4.
- [387] Lee SW, Kim KS, Cho SM, et al. An atypical case of Aicardi syndrome with favorable outcome. *Korean J Ophthalmol* 2004;18:79–83.
- [388] Nielsen KB, Anvret M, Flodmark O, et al. Aicardi syndrome: early neuroradiological manifestations and results of DNA studies in one patient. *Am J Med Genet* 1991;38:65–8.
- [389] Lorenz B, Hasenfratz G, Laub MC, et al. Retrobulbar cysts in Aicardi's syndrome. *Ophthalmic Paediatr Genet* 1991;12:105–10.
- [390] Jensen AA, Christiansen SP. Aicardi syndrome with Pierre Robin sequence. *J AAPOS* 2004;8:187–9.
- [391] McMahon RG, Bell RA, Moore GRW, et al. Aicardi's syndrome; a clinicopathologic study. *Arch Ophthalmol* 1984;102:250–3.
- [392] Ospina LH, Nayak H, McCormick AQ. Progressive pigmentation of chorioretinal lesions in Aicardi syndrome. *Arch Ophthalmol* 2004;122:790.
- [393] Costa T, Greer W, Rysiecki G, et al. Monozygotic twins discordant for Aicardi syndrome. *J Med Genet* 1997;34:688–91.
- [394] Anderson C, Pakh P, Blaha GR, et al. Preferential hyperacuity perimetry to detect hydroxychloroquine retinal toxicity. *Retina* 2009;29:1188–92.
- [395] Aggarwal KC, Aggarwal A, Prasad MS, et al. Aicardi's syndrome in a male child: an unusual presentation. *Indian Pediatr* 2000;37:542–5.
- [396] Chappelov AV, Reid J, Parikh S, et al. Aicardi syndrome in a genotypic male. *Ophthalmic Genet* 2008;29:181–3.
- [397] Yilmaz S, Fontaine H, Brochet K, et al. Screening of subtle copy number changes in Aicardi syndrome patients with a high resolution X chromosome array-CGH. *Eur J Med Genet* 2007;50:386–91.
- [398] Vetrie D, Flinter F, Bobrow M, et al. X inactivation patterns in females with Alport's syndrome: a means of selecting against a deleterious gene? *J Med Genet* 1992;29:663–6.
- [399] Jais JP, Knebelmann B, Giatras I, et al. X-linked Alport syndrome: natural history and genotype–phenotype correlations in girls and women belonging to 195 families: a “European Community Alport Syndrome Concerted Action” study. *J Am Soc Nephrol* 2003;14:2603–10.
- [400] Alport AC. Hereditary familial congenital haemorrhagic nephritis. *Br Med J* 1927;1:504–6.
- [401] Arnott EJ, Crawford MDA, Toghil PJ. Anterior lenticonus and Alport's syndrome. *Br J Ophthalmol* 1966;50:390–403.
- [402] Davies PD. Pigment dispersion in a case of Alport's syndrome. *Br J Ophthalmol* 1970;54:557–61.
- [403] Gelisken O, Özçetin H, Erturk H. Alport's syndrome and flecked retinopathy. *Bull Soc Belge Ophthalmol* 1987;220:75–9.
- [404] Gehrs KM, Pollock SC, Zilkha G. Clinical features and pathogenesis of Alport retinopathy. *Retina* 1995;15:305–11.
- [405] Govan JAA. Ocular manifestations of Alport's syndrome: a

- hereditary disorder of basement membranes? *Br J Ophthalmol* 1983;67:493-503.
- [406] Jacobs M, Jeffrey B, Kriss A, et al. Ophthalmologic assessment of young patients with Alport syndrome. *Ophthalmology* 1992;99:1039-44.
- [407] Kanamori M, Hayasaka S, Furuse N, et al. Macular flecks in a 5-year-old boy with Alport's syndrome. *Graefes Arch Clin Exp Ophthalmol* 1988;226:227-9.
- [408] Perrin D, Jungers P, Grunfeld JP, et al. Perimacular changes in Alport's syndrome. *Clin Nephrol* 1980;13:163-7.
- [409] Peterson WS, Albert DM. Fundus changes in the hereditary nephropathies. *Trans Am Acad Ophthalmol Otolaryngol* 1974;78:OP762-OP770.
- [410] Polak BCP, Hogewind BL. Macular lesions in Alport's disease. *Am J Ophthalmol* 1977;84:532-5.
- [411] Sabates R, Krachmer JH, Weingeist TA. Ocular findings in Alport's syndrome. *Ophthalmologica* 1983;186:204-10.
- [412] Sohar E. A heredo-familial syndrome characterized by renal disease, inner ear deafness and ocular changes. *Harefuah* 1954;47:161-2.
- [413] Teekhasaene C, Nimmanit S, Wutthiphan S, et al. Posterior polymorphous dystrophy and Alport syndrome. *Ophthalmology* 1991;98:1207-15.
- [414] Zylbermann R, Silverstone B-Z, Brandes E, et al. Retinal lesions in Alport's syndrome. *J Pediatr Ophthalmol Strabismus* 1980;17:255-60.
- [415] Rahman W, Banerjee S. Giant macular hole in Alport syndrome. *Can J Ophthalmol* 2007;42:314-5.
- [416] Myers JC, Jones TA, Pohjolainen E-R, et al. Molecular cloning of  $\alpha 5(IV)$  collagen and assignment of the gene to the region of the X-chromosome containing the Alport syndrome locus. *Am J Hum Gen* 1990;46:1024-33.
- [417] Tazon Vega B, Badenas C, Ars E, et al. Autosomal-recessive Alport's syndrome and benign familial hematuria are collagen type IV diseases. *Am J Kidney Dis* 2003;42:952-9.
- [418] Pascual Pascual SI, Molano J, Pascual-Castroviejo I. Electroretinogram in Duchenne/Becker muscular dystrophy. *Pediatr Neurol* 1998;18:315-20.
- [419] Jensen H, Warburg M, Sjo O, et al. Duchenne muscular dystrophy: negative electroretinograms and normal dark adaptation. Reappraisal of assignment of X linked incomplete congenital stationary night blindness. *J Med Genet* 1995;32:348-51.
- [420] Tremblay F, De Becker I, Dooley JM, et al. Duchenne muscular dystrophy: negative scotopic bright-flash electroretinogram but not congenital stationary night blindness. *Can J Ophthalmol* 1994;29:274-9.
- [421] Sigesmund DA, Weleber RG, Pillers DA, et al. Characterization of the ocular phenotype of Duchenne and Becker muscular dystrophy. *Ophthalmology* 1994;101:856-65.
- [422] Sigesmund DA, Weleber RG, Pillers DAM, et al. Characterization of the ocular phenotype of Duchenne and Becker muscular dystrophy. *Ophthalmology* 1994;101:856-65.
- [423] Miyake Y, Ichikawa K, Shiose Y, et al. Hereditary macular dystrophy without visible fundus abnormality. *Am J Ophthalmol* 1989;108:292-9.
- [424] Deutman AF. The hereditary dystrophies of the posterior pole of the eye. *Assen: Van Gorcum*; 1971. p. 172-98.
- [425] Kondo M, Ueno S, Piao CH, et al. Occult macular dystrophy in an 11-year-old boy. *Br J Ophthalmol* 2004;88:1602-3.
- [426] Piao CH, Kondo M, Tanikawa A, et al. Multifocal electroretinogram in occult macular dystrophy. *Invest Ophthalmol Vis Sci* 2000;41:513-7.
- [427] Fujii S, Escano MF, Ishibashi K, et al. Multifocal electroretinography in patients with occult macular dystrophy. *Br J Ophthalmol* 1999;83:879-80.
- [428] Miyake Y, Horiguchi M, Tomita N, et al. Occult macular dystrophy. *Am J Ophthalmol* 1996;122:644-53.
- [429] Koizumi H, Maguire JJ, Spaide RF. Spectral domain optical coherence tomographic findings of occult macular dystrophy. *Ophthalmic Surg Lasers Imaging* 2009;40:174-6.
- [430] Brockhurst RJ, Sandberg MA. Optical coherence tomography findings in occult macular dystrophy. *Am J Ophthalmol* 2007;143:516-8.
- [431] Wildberger H, Niemeyer G, Junghardt A. Multifocal electroretinogram (mfERG) in a family with occult macular dystrophy (OMD). *Klin Monatsbl Augenheilkd* 2003;220:111-5.
- [432] Kiernan DF, Mieler WF, Hariprasad SM. Spectral-domain optical coherence tomography: a comparison of modern high-resolution retinal imaging systems. *Am J Ophthalmol* 2010 Jan;149:18-31.
- [433] Lyons JS. Non-familial occult macular dystrophy. *Doc Ophthalmol* 2005;111:49-56.
- [434] Weleber RG, Watzke RC, Shults WT, et al. Clinical and electrophysiologic characterization of paraneoplastic and autoimmune retinopathies associated with anti-nolase antibodies. *Am J Ophthalmol* 2005;139:780-94.
- [435] Hoyng C, Pinckers A, Deutman A. Juvenile atrophy of pigment epithelium and choriocapillaris. *Graefes Arch Clin Exp Ophthalmol* 1992;230:230-2.
- [436] Charles SJ, Moore AT, Davison BCC, et al. Flecked retina associated with ring 17 chromosome. *Br J Ophthalmol* 1991;75:125-7.
- [437] Gass JDM, Taney BS. Flecked retina associated with café au lait spots, microcephaly, epilepsy, short stature, and ring 17 chromosome. *Arch Ophthalmol* 1994;112:738-9.
- [438] Ono K, Suzuki Y, Fujii I, et al. A case of ring chromosome E 17:46,r(17)(p13-q25). *Jpn J Hum Genet* 1974;19:235-42.
- [439] McAllister IL, Isaacs TW, Wade MS. Benign fleck retina. *Br J Ophthalmol* 1996;20:267-9.
- [440] Sabel Aish SF, Dajani B. Benign familial fleck retina. *Br J Ophthalmol* 1980;64:652-9.
- [441] Audo I, Tsang SH, Fu AD, et al. Autofluorescence imaging in a case of benign familial fleck retina. *Arch Ophthalmol* 2007;125:714-5.
- [442] Miyake Y, Harada K. Familial fleck retina with night blindness. *Ann Ophthalmol* 1982;14:836-41.
- [443] Noble KG, Carr RE, Siegel IM. Autosomal-dominant congenital stationary night blindness and normal fundus with an electronegative electroretinogram. *Am J Ophthalmol* 1990;109:44-8.
- [444] Miyake Y, Yagasaki K, Horiguchi M, et al. Congenital stationary night blindness with negative electroretinogram; a new classification. *Arch Ophthalmol* 1986;104:1013-20.
- [445] Miyake Y, Kawase Y. Reduced amplitude of oscillatory potentials in female carriers of X-linked recessive congenital stationary night blindness. *Am J Ophthalmol* 1984;98:208-15.
- [446] Merin S, Rowe H, Auerbach E, et al. Syndrome of congenital high myopia with nyctalopia; report of findings in 25 families. *Am J Ophthalmol* 1970;70:541-7.
- [447] Kubota Y. Seven cases of congenital hemeralopia. *Acta Soc Ophthalmol Jpn* 1972;76:179-83.
- [448] Krill AE. Congenital stationary night blindness. In: Krill AE, Archer DB, editors. *Krill's hereditary retinal and choroidal diseases, vol. 2. Clinical characteristics*. New York: Harper & Row; 1977. p. 391-420.
- [449] Kandori F, Tamai A, Kurimoto S, et al. Fleck retina. *Am J Ophthalmol* 1972;73:673-85.
- [450] Carr RE. Congenital stationary night blindness. *Trans Am*



- Ophthalmol Soc 1974;72:448-87.
- [451] Heckenlively JR, Martin DA, Rosenbaum AL. Loss of electroretinographic oscillatory potentials, optic atrophy, and dysplasia in congenital stationary night blindness. *Am J Ophthalmol* 1983;96:526-34.
- [452] Ruttum MS, Lewandowski MF, Bateman JB. Affected females in X-linked congenital stationary night blindness. *Ophthalmology* 1992;99:747-52.
- [453] Oguchi C. Über die eigenartige Hemeralopie mit diffuser weissgraulicher Verfärbung des Augenhintergrundes. *Albrecht von Graefes Arch Ophthalmol* 1912;81:109-17.
- [454] Aldred MA, Dry KL, Sharp DM, et al. Linkage analysis in X-linked congenital stationary night blindness. *Genomics* 1992;14:99-104.
- [455] Bech-Hansen NT, Moore BJ, Pearce WG. Mapping of locus for X-linked congenital stationary night blindness (CSNB1) proximal to DXS7. *Genomics* 1992;12:409-11.
- [456] Keith CG, Denton MJ, Chen J-D. Clinical variability in a family with X-linked retinal dystrophy and the locus at the RP3 site. *Ophthalmic Paediat Genet* 1991;12:91-8.
- [457] Weleber RG, Tongue AC. Congenital stationary night blindness presenting as Leber's congenital amaurosis. *Arch Ophthalmol* 1987;105:360-5.
- [458] Wilder H. Oguchi's disease. *Am J Ophthalmol* 1953;36:718-9.
- [459] Mizuo A. On new discovery in dark adaptation in Oguchi's disease. *Acta Soc Ophthalmol Jpn* 1913;17:1148.
- [460] Kuwabara Y, Ishihara K, Akiya S. Histopathological and electron microscopic studies on the retina of Oguchi's disease. *Acta Soc Ophthalmol Jpn* 1963;67:1323-51.
- [461] Carr RE, Gouras P. Oguchi's disease. *Arch Ophthalmol* 1965;73:646-56.
- [462] Yamanaka M. Histologic study of Oguchi's disease; its relationship to pigmentary degeneration of the retina. *Am J Ophthalmol* 1969;68:19-26.
- [463] de Jong PT, Zrenner E, van Meel GJ, et al. Mizuo phenomenon in X-linked retinoschisis. Pathogenesis of the Mizuo phenomenon. *Arch Ophthalmol* 1991;109:1104-8.
- [464] Nakamura M, Yamamoto S, Okada M, et al. Novel mutations in the arrestin gene and associated clinical features in Japanese patients with Oguchi's disease. *Ophthalmology* 2004;111:1410-4.
- [465] Yoshii M, Murakami A, Akeo K, et al. Visual function and gene analysis in a family with Oguchi's disease. *Ophthalmic Res* 1998;30:394-401.
- [466] Carr RE, Margolis S, Siegel IM. Fluorescein angiography and vitamin A and oxalate levels in fundus albipunctatus. *Am J Ophthalmol* 1976;82:549-58.
- [467] Lauber H. Die sogenannte Retinitis punctata albescens. *Klin Monatsbl Augenheilkd* 1910;48:133-48.
- [468] Levy NS, Toskes PP. Fundus albipunctatus and vitamin A deficiency. *Am J Ophthalmol* 1974;78:926-9.
- [469] Marmor MF. Long-term follow-up of the physiologic abnormalities and fundus changes in fundus albipunctatus. *Ophthalmology* 1990;97:380-4.
- [470] Sekiya K, Nakazawa M, Ohguro H, et al. Long-term fundus changes due to Fundus albipunctatus associated with mutations in the RDH5 gene. *Arch Ophthalmol* 2003;121:1057-9.
- [471] Yamamoto H, Yakushijin K, Kusuhara S, et al. A novel RDH5 gene mutation in a patient with fundus albipunctatus presenting with macular atrophy and fading white dots. *Am J Ophthalmol* 2003;136:572-4.
- [472] Nakamura M, Hotta Y, Tanikawa A, et al. A high association with cone dystrophy in Fundus albipunctatus caused by mutations of the RDH5 gene. *Invest Ophthalmol Vis Sci* 2000;41:3925-32.
- [473] Miyake Y, Shiroyama N, Sugita S, et al. Fundus albipunctatus associated with cone dystrophy. *Br J Ophthalmol* 1992;76:375-9.
- [474] Querques G, Carrillo P, Querques L, et al. High-definition optical coherence tomographic visualization of photoreceptor layer and retinal flecks in fundus albipunctatus associated with cone dystrophy. *Arch Ophthalmol* 2009;127:703-6.
- [475] Yamamoto H, Simon A, Eriksson U, et al. Mutations in the gene encoding 11-cis retinol dehydrogenase cause delayed dark adaptation and fundus albipunctatus. *Nat Genet* 1999;22:188-91.
- [476] Dryja TP. Molecular genetics of Oguchi disease, fundus albipunctatus, and other forms of stationary night blindness: LVII Edward Jackson Memorial Lecture. *Am J Ophthalmol* 2000;130:547-63.
- [477] Brew GA. Retinitis punctata albescens. *Trans Ophthalmol Soc Aust* 1949;9:154-66.
- [478] Katajakunnas M, Mäntyjärvi M. Retinitis punctata albescens; a family study. *Acta Ophthalmol* 1989;67:703-9.
- [479] Smith BF, Ripps H, Goodman G. Retinitis punctata albescens; a functional and diagnostic evaluation. *Arch Ophthalmol* 1959;61:93-101.
- [480] Katsanis N, Shroyer NF, Lewis RA, et al. Fundus albipunctatus and retinitis punctata albescens in a pedigree with an R150Q mutation in RLBP1. *Clin Genet* 2001;59:424-9.
- [481] Niwa Y, Kondo M, Ueno S, et al. Cone and rod dysfunction in fundus albipunctatus with RDH5 mutation: an electrophysiological study. *Invest Ophthalmol Vis Sci* 2005;46:1480-5.
- [482] Nakamura M, Lin J, Miyake Y. Young monozygotic twin sisters with fundus albipunctatus and cone dystrophy. *Arch Ophthalmol* 2004;122:1203-7.
- [483] Hotta K, Nakamura M, Kondo M, et al. Macular dystrophy in a Japanese family with fundus albipunctatus. *Am J Ophthalmol* 2003;135:917-9.
- [484] Nakamura M, Miyake Y. Macular dystrophy in a 9-year-old boy with fundus albipunctatus. *Am J Ophthalmol* 2002;133:278-80.
- [485] Hayashi T, Goto-Omoto S, Takeuchi T, et al. Compound heterozygous RDH5 mutations in familial fleck retina with night blindness. *Acta Ophthalmol Scand* 2006;84:254-8.
- [486] Kandori F. Very rare case of congenital nonprogressive nightblindness with fleck retina. *J Clin Ophthalmol (Tokyo)* 1959;13:384-6.
- [487] Zamorani G. Una rara associazione di retinite di Coats con retinite pigmentosa. *Ital Oftalmol* 1956;9:429-43.
- [488] Witschel H. Retinopathia pigmentosa and "Morbus Coats." *Klin Monatsbl Augenheilkd* 1974;164:405-11.
- [489] Tso MOM. Pathology and pathogenesis of drusen of the optic nervehead. *Ophthalmology* 1981;88:1066-80.
- [490] Spalton DJ, Rahi AHS, Bird AC. Immunological studies in retinitis pigmentosa associated with retinal vascular leakage. *Br J Ophthalmol* 1978;62:183-7.
- [491] Spalton DJ, Bird AC, Cleary PE. Retinitis pigmentosa and retinal oedema. *Br J Ophthalmol* 1978;62:174-82.
- [492] Sieving PA, Fishman GA. Refractive errors of retinitis pigmentosa patients. *Br J Ophthalmol* 1978;62:163-7.
- [493] Schmidt D, Faulborn J. Retinopathia pigmentosa mit Coats-Syndrom. *Klin Monatsbl Augenheilkd* 1970;157:643-52.
- [494] Robertson DM. Hamartomas of the optic disk with retinitis pigmentosa. *Am J Ophthalmol* 1972;74:526-31.
- [495] Puck A, Tso MOM, Fishman GA. Drusen of the optic nerve associated with retinitis pigmentosa. *Arch Ophthalmol* 1985;103:231-4.
- [496] Pruett RC. Retinitis pigmentosa; a biomicroscopical study of vitreous abnormalities. *Arch Ophthalmol* 1975;93:603-8.
- [497] Pillai S, Limaye SR, Saimovici L-B. Optic disc hamartoma associated with retinitis pigmentosa. *Retina* 1983;3:24-6.
- [498] Merin S. Macular cysts as an early sign of tapeto-retinal

- degeneration. *J Pediatr Ophthalmol* 1970;7:225–8.
- [499] Metge P, Chovet M, Ebagosti A, et al. Oedème maculaire cystoïde dans la rétinopathie pigmentaire. *Bull Soc Ophthalmol Fr* 1974;74:119–23.
- [500] Morgan III WE, Crawford JB. Retinitis pigmentosa and Coats' disease. *Arch Ophthalmol* 1968;79:146–9.
- [501] Marmor MF. Visual loss in retinitis pigmentosa. *Am J Ophthalmol* 1980;89:692–8.
- [502] Lewis ML. Coexisting central serous choroidopathy and retinitis pigmentosa. *South Med J* 1980;73:77–80.
- [503] Lanier JD, McCrary III JA, Justice J. Autosomal-recessive retinitis pigmentosa and Coats disease; a presumed familial incidence. *Arch Ophthalmol* 1976;94:1737–42.
- [504] Jay B, Bird A. X-linked retinitis pigmentosa. *Trans Am Acad Ophthalmol Otolaryngol* 1973;77:OP641–OP651.
- [505] Hyvärinen L, Maumenee AE, Kelley J, et al. Fluorescein angiographic findings in retinitis pigmentosa. *Am J Ophthalmol* 1971;71:17–26.
- [506] Heckenlively JR, Yoser SL, Friedman LH, et al. Clinical findings and common symptoms in retinitis pigmentosa. *Am J Ophthalmol* 1988;105:504–11.
- [507] Heckenlively JR, Martin DA, Rosales TO. Telangiectasia and optic atrophy in cone-rod degenerations. *Arch Ophthalmol* 1981;99:1983–91.
- [508] Haye C, Guyot-Sionnest, Coulon G. Association de rétinite pigmentaire et de vitiligo. *Bull Soc Ophthalmol Fr* 1973;73:1155–8.
- [509] Hansen RI, Friedman AH, Gartner S, et al. The association of retinitis pigmentosa with preretinal macular gliosis. *Br J Ophthalmol* 1977;61:597–600.
- [510] Haim M. Prevalence of retinitis pigmentosa and allied disorders in Denmark. III. Hereditary pattern. *Acta Ophthalmol* 1992;70:615–24.
- [511] Grizzard WS, Deutman AF, Pinckers AJLG. Retinal dystrophies associated with peripheral retinal vasculopathy. *Br J Ophthalmol* 1978;62:188–94.
- [512] Foxman SG, Heckenlively JR, Bateman JB, et al. Classification of congenital and early onset retinitis pigmentosa. *Arch Ophthalmol* 1985;103:1502–6.
- [513] Fogle JA, Welch RB, Green WR. Retinitis pigmentosa and exudative vasculopathy. *Arch Ophthalmol* 1978;96:696–702.
- [514] Fishman GA, Maggiano JM, Fishman M. Foveal lesions seen in retinitis pigmentosa. *Arch Ophthalmol* 1977;95:1993–6.
- [515] Fishman GA, Alexander KR, Anderson RJ. Autosomal-dominant retinitis pigmentosa; a method of classification. *Arch Ophthalmol* 1985;103:366–74.
- [516] Fishman GA, Farber MD, Derlacki DJ. X-linked retinitis pigmentosa; profile of clinical findings. *Arch Ophthalmol* 1988;106:369–75.
- [517] Fishman GA, Fishman M, Maggiano J. Macular lesions associated with retinitis pigmentosa. *Arch Ophthalmol* 1977;95:798–803.
- [518] Fishman GA, Gilbert LD, Fiscella RG, et al. Acetazolamide for treatment of chronic macular edema in retinitis pigmentosa. *Arch Ophthalmol* 1989;107:1445–52.
- [519] Ffytche TJ. Cystoid maculopathy in retinitis pigmentosa. *Trans Ophthalmol Soc UK* 1972;92:265–83.
- [520] Fetkenhour CL, Choromokos E, Weinstein J, et al. Cystoid macular edema in retinitis pigmentosa. *Trans Am Acad Ophthalmol Otolaryngol* 1977;83:OP515–OP521.
- [521] Farber MD, Fishman GA, Weiss RA. Autosomal-dominantly inherited retinitis pigmentosa; visual acuity loss by subtype. *Arch Ophthalmol* 1985;103:524–8.
- [522] Faktorovich EG, Steinberg RH, Yasumura D, et al. Photoreceptor degeneration in inherited retinal dystrophy delayed by basic fibroblast growth factor. *Nature* 1990;347:83–6.
- [523] Dryja TP. Rhodopsin and autosomal-dominant retinitis pigmentosa. *Eye* 1992;6:1–10.
- [524] Dryja TP, McGee TL, Hahn LB, et al. Mutations within the rhodopsin gene in patients with autosomal-dominant retinitis pigmentosa. *N Engl J Med* 1990;323:1302–7.
- [525] De Bustros S, Miller NR, Finkelstein D, et al. Bilateral astrocytic hamartomas of the optic nerve heads in retinitis pigmentosa. *Retina* 1983;3:21–3.
- [526] Cowan Jr CL, Grimes PE, Chakrabarti S, et al. Retinitis pigmentosa associated with hearing loss, thyroid disease, vitiligo, and alopecia areata; retinitis pigmentosa and vitiligo. *Retina* 1982;2:84–8.
- [527] Cogan DG. Symposium: primary chorioretinal aberrations with night blindness. Pathology. *Trans Am Acad Ophthalmol Otolaryngol* 1950;54:629–61.
- [528] Bonnet M, Pingault C. Oedème maculaire cystoïde et rétinopathie pigmentaire. *Bull Soc Ophthalmol Fr* 1973;73:715–8.
- [529] Bloom TD, Fishman GA, Mafee MF. Usher's syndrome; CNS defects determined by computed tomography. *Retina* 1983;3:108–13.
- [530] Bird AC. X-linked retinitis pigmentosa. *Br J Ophthalmol* 1975;59:177–99.
- [531] Berson EL, Sandberg MA, Rosner B, et al. Natural course of retinitis pigmentosa over a three-year interval. *Am J Ophthalmol* 1985;99:240–51.
- [532] Ayesh I, Sanders MD, Friedmann AI. Retinitis pigmentosa and Coats's disease. *Br J Ophthalmol* 1976;60:775–7.
- [533] Albert DM, Nordlund JJ, Lerner AB. Ocular abnormalities occurring with vitiligo. *Ophthalmology* 1979;86:1145–58.
- [534] Newsome DA. Retinal fluorescein leakage in retinitis pigmentosa. *Am J Ophthalmol* 1986;101:354–60.
- [535] Shahidi M, Fishman G, Ogura Y, et al. Foveal thickening in retinitis pigmentosa patients with cystoid macular edema. *Retina* 1994;14:243–7.
- [536] Gass JDM. Stereoscopic atlas of macular diseases; a fundoscopic and angiographic presentation. St. Louis: CV Mosby; 1970. p. 151.
- [537] François J, de Laey JJ, Verbraeken H. L'oedème kystoïde de la macula. *Bull Soc Belge Ophthalmol* 1972;161:708–21.
- [538] Fishman GA, Lam BL, Anderson RJ. Racial differences in the prevalence of atrophic-appearing macular lesions between black and white patients with retinitis pigmentosa. *Am J Ophthalmol* 1994;118:33–8.
- [539] Gartner S, Henkind P. Pathology of retinitis pigmentosa. *Ophthalmology* 1982;89:1425–32.
- [540] Piermarocchi S, Segato T, Midena E. Retinal fluorescein leakage in retinitis pigmentosa. *Am J Ophthalmol* 1986;102:674.
- [541] Spallone A. Retinal fluorescein leakage in retinitis pigmentosa. *Am J Ophthalmol* 1986;102:408.
- [542] Tucker GS, Jacobson SG. Morphological findings in retinitis pigmentosa with early diffuse rod dysfunction. *Retina* 1988;8:30–41.
- [543] Szamier RB, Berson EL. Retinal histopathology of a carrier of X-chromosome-linked retinitis pigmentosa. *Ophthalmology* 1985;92:271–8.
- [544] Rodrigues MM, Wiggert B, Hackett J, et al. Dominantly inherited retinitis pigmentosa; ultrastructure and biochemical analysis. *Ophthalmology* 1985;92:1165–72.
- [545] Kolb H, Gouras P. Electron microscopic observations of human retinitis pigmentosa, dominantly inherited. *Invest Ophthalmol* 1974;13:487–98.
- [546] Berson EL, Adamian M. Ultrastructural findings in an autopsy

- eye from a patient with Usher's syndrome type II. *Am J Ophthalmol* 1992;114:748-57.
- [547] Henkind P, Gartner S. The relationship between retinal pigment epithelium and the choriocapillaris. *Trans Ophthalmol Soc UK* 1983;103:444-7.
- [548] Reppucci V, Henkind P. Retinal pigment epithelial damage and secondary choriocapillary atrophy. *ARVO Abstracts. Invest Ophthalmol Vis Sci* 1983;24:283.
- [549] Stone JL, Barlow WE, Humayun MS, et al. Morphometric analysis of macular photoreceptors and ganglion cells in retinas with retinitis pigmentosa. *Arch Ophthalmol* 1992;110:1634-9.
- [550] Albert DM, Pruett RC, Craft JL. Transmission electron microscopic observations of vitreous abnormalities in retinitis pigmentosa. *Am J Ophthalmol* 1986;101:665-72.
- [551] Gouras P. Transmission electron microscopic observations of vitreous abnormalities in retinitis pigmentosa. *Am J Ophthalmol* 1987;103:345.
- [552] Newsome DA, Michels RG. Detection of lymphocytes in the vitreous gel of patients with retinitis pigmentosa. *Am J Ophthalmol* 1988;105:596-602.
- [553] Ogura Y, Cunha-Vaz JG, Zeimer RC. Evaluation of vitreous body integrity in retinitis pigmentosa by vitreous fluorophotometry. *Arch Ophthalmol* 1987;105:517-9.
- [554] Kimberling W, Smith RJ. Gene mapping of the Usher syndromes. *Otolaryngol Clin North Am* 1992;25:923-34.
- [555] Piazza L, Fishman GA, Farber M, et al. Visual acuity loss in patients with Usher's syndrome. *Arch Ophthalmol* 1986;104:1336-9.
- [556] Piazza L, Fishman GA, Kaplan RD, et al. Magnetic resonance imaging of central nervous system defects in Usher's syndrome. *Retina* 1987;7:241-5.
- [557] McDonald JM, Newsome DA, Rintelmann WF. Sensorineural hearing loss in patients with typical retinitis pigmentosa. *Am J Ophthalmol* 1988;105:125-31.
- [558] Novack RL, Foos RY. Drusen of the optic disk in retinitis pigmentosa. *Am J Ophthalmol* 1987;103:44-7.
- [559] Jacobson SG, Roman AJ, Cideciyan AV, et al. X-linked retinitis pigmentosa: Functional phenotype of an RP2 genotype. *Invest Ophthalmol Vis Sci* 1992;33:3481-92.
- [560] Jay M, Bird AC, Moore AN, et al. Nine generations of a family with autosomal-dominant retinitis pigmentosa and evidence of variable expressivity from census records. *J Med Genet* 1992;29:906-10.
- [561] Hunter DG, Fishman GA, Kretzer FL. Abnormal axonemes in X-linked retinitis pigmentosa. *Arch Ophthalmol* 1988;106:362-8.
- [562] Hunter DG, Fishman GA, Mehta RS, et al. Abnormal sperm and photoreceptor axonemes in Usher's syndrome. *Arch Ophthalmol* 1986;104:385-9.
- [563] Fishman GA, Weinberg AB, McMahon TT. X-Linked recessive retinitis pigmentosa; clinical characteristics of carriers. *Arch Ophthalmol* 1986;104:1329-35.
- [564] Shiono T, Hotta Y, Noro M, et al. Clinical features of Japanese family with autosomal-dominant retinitis pigmentosa caused by point mutation in codon 347 of rhodopsin gene. *Jpn J Ophthalmol* 1992;36:69-75.
- [565] Newsome DA, Anderson RE, May JG, et al. Clinical and serum lipid findings in a large family with autosomal-dominant retinitis pigmentosa. *Ophthalmology* 1988;95:1691-5.
- [566] Lam BL, Judisch GF. Early-onset autosomal-dominant retinitis pigmentosa with severe hyperopia. *Am J Ophthalmol* 1991;111:454-6.
- [567] Jacobson SG, Kemp CM, Sung C-H, et al. Retinal function and rhodopsin levels in autosomal-dominant retinitis pigmentosa with rhodopsin mutations. *Am J Ophthalmol* 1991;112:256-71.
- [568] Stone EM, Kimura AE, Nichols BE, et al. Regional distribution of retinal degeneration in patients with the proline to histidine mutation in codon 23 of the rhodopsin gene. *Ophthalmology* 1991;98:1806-13.
- [569] Richards JE, Kuo C-Y, Boehnke M, et al. Rhodopsin Thr58Arg mutation in a family with autosomal-dominant retinitis pigmentosa. *Ophthalmology* 1991;98:1797-805.
- [570] Niemeyer G, Trüb P, Schinzel A, et al. Clinical and ERG data in a family with autosomal-dominant RP and Pro-347-Arg mutation in the rhodopsin gene. *Doc Ophthalmol* 1992;79:303-11.
- [571] Kemp CM, Jacobson SG, Roman AJ, et al. Abnormal rod dark adaptation in autosomal-dominant retinitis pigmentosa with proline-23-histidine rhodopsin mutation. *Am J Ophthalmol* 1992;113:165-74.
- [572] Fishman GA, Stone EM, Gilbert LD, et al. Ocular findings associated with a rhodopsin gene codon 58 transversion mutation in autosomal-dominant retinitis pigmentosa. *Arch Ophthalmol* 1991;109:1387-93.
- [573] Fishman GA, Stone EM, Gilbert LD, et al. Ocular findings associated with a rhodopsin gene codon 106 mutation; glycine-to-arginine change in autosomal-dominant retinitis pigmentosa. *Arch Ophthalmol* 1992;110:646-53.
- [574] Fishman GA, Stone EM, Sheffield VC, et al. Ocular findings associated with rhodopsin gene codon 17 and codon 182 transition mutations in dominant retinitis pigmentosa. *Arch Ophthalmol* 1992;110:54-62.
- [575] Fishman GA, Vandenburg K, Stone EM, et al. Ocular findings associated with rhopsin gene codon 267 and codon 190 mutations in dominant retinitis pigmentosa. *Arch Ophthalmol* 1992;110:1582-8.
- [576] Berson EL, Rosner B, Sandberg MA, et al. Ocular findings in patients with autosomal-dominant retinitis pigmentosa and a rhodopsin gene defect (Pro-23-His). *Arch Ophthalmol* 1991;109:92-101.
- [577] Berson EL, Rosner B, Sandberg MA, et al. Ocular findings in patients with autosomal-dominant retinitis pigmentosa and rhodopsin, proline-347-leucine. *Am J Ophthalmol* 1991;111:614-23.
- [578] Andréasson S, Ehinger B, Abrahamson M, et al. A six-generation family with autosomal-dominant retinitis pigmentosa and a rhodopsin gene mutation (arginine-135-leucine). *Ophthalmic Paediatr Genet* 1992;13:145-53.
- [579] Berson EL. Retinitis pigmentosa; the Friedenwald Lecture. *Invest Ophthalmol Vis Sci* 1993;34:1659-76.
- [580] Rosenfeld PJ, Cowley GS, McGee TL, et al. A null mutation in the rhodopsin gene causes rod photoreceptor dysfunction and autosomal-recessive retinitis pigmentosa. *Nat Genet* 1992;1:209-13.
- [581] Mukai S, Dryja TP, Bruns GAP, et al. Linkage between the X-linked retinitis pigmentosa locus and the L1.28 locus. *Am J Ophthalmol* 1985;100:225-9.
- [582] MacKay CJ, Shek MS, Carr RE, et al. Retinal degeneration with nanophthalmos, cystic macula degeneration, and angle closure glaucoma; a new recessive syndrome. *Arch Ophthalmol* 1987;105:366-71.
- [583] Wagner RS, Caputo AR, Nelson LB, et al. High hyperopia in Leber's congenital amaurosis. *Arch Ophthalmol* 1985;103:1507-9.
- [584] Heckenlively JR. Preserved para-arteriole retinal pigment epithelium (PPRPE) in retinitis pigmentosa. *Br J Ophthalmol* 1982;66:26-30.
- [585] Chant SM, Heckenlively J, Meyers-Elliott RH. Autoimmunity in hereditary retinal degeneration. I. Basic studies. *Br J Ophthalmol* 1985;69:19-24.

- [586] Heredia García CD, García Calderón PA. Evolution time and longitudinal studies of the anti-S-antigen antibody titers in retinitis pigmentosa. *Retina* 1989;9:237-41.
- [587] Newsome DA, Quinn TC, Hess AD, et al. Cellular immune status in retinitis pigmentosa. *Ophthalmology* 1988;95:1696-703.
- [588] Thurkill CE, Roth AM, Takemoto DJ, et al. Antibody indications of secondary and superimposed retinal hypersensitivity in retinitis pigmentosa. *Am J Ophthalmol* 1991;112:132-7.
- [589] Berson EL, Rosner B, Sandberg MA, et al. A randomized trial of vitamin A and vitamin E supplementation for retinitis pigmentosa. *Arch Ophthalmol* 1993;111:761-72.
- [590] Marmor MF. A randomized trial of vitamin A and vitamin E supplementation for retinitis pigmentosa. *Arch Ophthalmol* 1993;111:1460-1.
- [591] Massof RW, Finkelstein D. Supplemental vitamin A retards loss of ERG amplitude in retinitis pigmentosa. *Arch Ophthalmol* 1993;111:751-4.
- [592] Norton EWD. A randomized trial of vitamin A and vitamin E supplementation for retinitis pigmentosa. *Arch Ophthalmol* 1993;111:1460.
- [593] Greenstein VC, Holopigian K, Siderides E, et al. The effects of acetazolamide on visual function in retinitis pigmentosa. *Invest Ophthalmol Vis Sci* 1993;34:269-73.
- [594] Heckenlively JR. Grid photocoagulation for macular edema in patients with retinitis pigmentosa. *Am J Ophthalmol* 1987;104:94-5.
- [595] Newsome DA, Blacharski PA. Grid photocoagulation for macular edema in patients with retinitis pigmentosa. *Am J Ophthalmol* 1987;103:161-6.
- [596] Bok D. Retinal transplantation and gene therapy: Present realities and future possibilities. *Invest Ophthalmol Vis Sci* 1993;34:473-6.
- [597] Bressler NM, Gragoudas ES. Neovascularization of the optic disk associated with atypical retinitis pigmentosa. *Am J Ophthalmol* 1985;100:431-3.
- [598] Uliss AE, Gregor ZJ, Bird AC. Retinitis pigmentosa and retinal neovascularization. *Ophthalmology* 1986;93:1599-603.
- [599] Rumelt S, Kraus E, Rehany U. Retinal neovascularization and cystoid macular edema in punctata albescens retinopathy. *Am J Ophthalmol* 1992;114:507-8.
- [600] Csaky K, Olk RJ, Mahl CF, et al. Retinal detachment and retinal holes in retinitis pigmentosa sine pigmento. *Eur J Ophthalmol* 1991;1:151-3.
- [601] Jacobson SG, Voigt WJ, Parel J-M, et al. Automated light- and dark-adapted perimetry for evaluating retinitis pigmentosa. *Ophthalmology* 1986;93:1604-11.
- [602] Fishman GA, Anderson RJ, Lam BL, et al. Prevalence of foveal lesions in type 1 and type 2 Usher's syndrome. *Arch Ophthalmol* 1995;113:770-3.
- [603] Otterstedde CR, Spandau U, Blankenagel A, et al. A new clinical classification for Usher's syndrome based on a new subtype of Usher's syndrome type I. *Laryngoscope* 2001;111:84-6.
- [604] Waldeck T, Wyszynski B, Medalia A. The relationship between Usher's syndrome and psychosis with Capgras syndrome. *Psychiatry* 2001;64:248-55.
- [605] Mangotich M, Misiaszek J. Atypical psychosis in Usher's syndrome. *Psychosomatics* 1983;24:674-5.
- [606] Hamel C. Retinitis pigmentosa. *Orphanet J Rare Dis* 2006;1:40.
- [607] Schubert HD, Shields JA. Isolated exudative maculopathy in retinitis pigmentosa. *Am J Ophthalmol* 1987;103:834-5.
- [608] Medlock RD, Shields JA, Shields CL, et al. Retinal hemangioma-like lesions in eyes with retinitis pigmentosa. *Retina* 1990;10:274-7.
- [609] Khan JA, Ide CH, Strickland MP. Coats'-type retinitis pigmentosa. *Surv Ophthalmol* 1988;32:317-32.
- [610] Rodrigues MM, Bardenstein D, Wiggert B, et al. Retinitis pigmentosa with segmental massive retinal gliosis; an immunohistochemical, biochemical, and ultrastructural study. *Ophthalmology* 1987;94:180-6.
- [611] Kiratli H, Turkcuoglu P, Bilgic S. Gyrate atrophy associated with astrocytic hamartoma of the optic disc. *Retina* 2004;24:976-7.
- [612] Kim RY, Kearney JJ. Coats-type retinitis pigmentosa in a 4-year-old child. *Am J Ophthalmol* 1997;124:846-8.
- [613] Bestwick M, Jeong MY, Khalimonchuk O, et al. Analysis of Leigh syndrome mutations in the yeast SURF1 homolog reveals a new member of the cytochrome oxidase assembly factor family. *Mol Cell Biol* 2010;30:4480-91.
- [614] Rojo A, Campos Y, Sanchez JM, et al. NARP-MILS syndrome caused by 8993 T . G mitochondrial DNA mutation: a clinical, genetic and neuropathological study. *Acta Neuropathol* 2006;111:610-6.
- [615] Keranen T, Kuusisto H. NARP syndrome and adult-onset generalised seizures. *Epileptic Disord* 2006;8:200-3.
- [616] Gelfand JM, Duncan JL, Racine CA, et al. Heterogeneous patterns of tissue injury in NARP syndrome. *J Neurol* 2010, Oct 16.
- [617] Komaki H, Nishigaki Y, Fuku N, et al. Pyruvate therapy for Leigh syndrome due to cytochrome c oxidase deficiency. *Biochim Biophys Acta* 2010;1800:313-5.
- [618] Kerrison JB, Pollock SC, Biousse V, et al. Coffee and doughnut maculopathy: a cause of acute central ring scotomas. *Br J Ophthalmol* 2000;84:158-64.
- [619] Eichholtz W. Histologie der Retinopathia pigmentosa cum et sine pigmento. *Klin Monatsbl Augenheilkd* 1974;164:467-75.
- [620] Pearlman JT, Flood TP, Seiff SR. Retinitis pigmentosa without pigment. *Am J Ophthalmol* 1976;81:417-9.
- [621] Porta A, Pierrotet C, Aschero M, et al. Preserved para-arteriolar retinal pigment epithelium retinitis pigmentosa. *Am J Ophthalmol* 1992;113:161-4.
- [622] den Hollander AI, ten Brink JB, de Kok YJ, et al. Mutations in a human homologue of *Drosophila* crumbs cause retinitis pigmentosa (RP12). *Nat Genet* 1999;23:217-21.
- [623] den Hollander AI, Davis J, van der Velde-Visser SD, et al. CRB1 mutation spectrum in inherited retinal dystrophies. *Hum Mutat* 2004;24:355-69.
- [624] Kajiwaru K, Sandberg MA, Berson EL, et al. A null mutation in the human peripherin/RDS gene in a family with autosomal-dominant retinitis punctata albescens. *Nat Genet* 1993;3:208-12.
- [625] Carr RE, Ripps H, Siegel IM. Visual pigment kinetics and adaptation in fundus albipunctatus. *Doc Ophthalmol Proc Ser* 1974;4:193-204.
- [626] Ellis DS, Heckenlively JR. Retinitis punctata albescens; fundus appearance and functional abnormalities. *Retina* 1983;3:27-31.
- [627] Marmor MF. Defining fundus albipunctatus. *Doc Ophthalmol Proc Ser* 1977;13:227-34.
- [628] Humbert G, Delettre C, Senechal A, et al. Homozygous deletion related to Alu repeats in RLBP1 causes retinitis punctata albescens. *Invest Ophthalmol Vis Sci* 2006;47:4719-24.
- [629] Nakamura M, Lin J, Ito Y, et al. Novel mutation in RLBP1 gene in a Japanese patient with retinitis punctata albescens. *Am J Ophthalmol* 2005;139:1133-5.
- [630] Fishman GA, Roberts MF, Derlacki DJ, et al. Novel mutations in the cellular retinaldehyde-binding protein gene (RLBP1) associated with retinitis punctata albescens: evidence of interfamilial genetic heterogeneity and fundus changes in heterozygotes. *Arch Ophthalmol* 2004;122:70-5.
- [631] Demirci FY, Rigatti BW, Mah TS, et al. A novel compound heterozygous mutation in the cellular retinaldehyde-binding



- protein gene (RLBP1) in a patient with retinitis punctata albescens. *Am J Ophthalmol* 2004;138:171–3.
- [632] Bernal S, Calaf M, Adan A, et al. Evaluation of RLBP1 in 50 autosomal-recessive retinitis pigmentosa and 4 retinitis punctata albescens Spanish families. *Ophthalmic Genet* 2001;22:19–25.
- [633] Morimura H, Berson EL, Dryja TP. Recessive mutations in the RLBP1 gene encoding cellular retinaldehyde-binding protein in a form of retinitis punctata albescens. *Invest Ophthalmol Vis Sci* 1999;40:1000–4.
- [634] Souied E, Soubrane G, Benlian P, et al. Retinitis punctata albescens associated with the Arg135Trp mutation in the rhodopsin gene. *Am J Ophthalmol* 1996;121:19–25.
- [635] He X, Lobsiger J, Stocker A. Bothnia dystrophy is caused by domino-like rearrangements in cellular retinaldehyde-binding protein mutant R234W. *Proc Natl Acad Sci USA* 2009;106:18545–50.
- [636] Kohn L, Burststedt MS, Jonsson F, et al. Carrier of R14W in carbonic anhydrase IV presents Bothnia dystrophy phenotype caused by two allelic mutations in RLBP1. *Invest Ophthalmol Vis Sci* 2008;49:3172–7.
- [637] Burststedt MS, Sandgren O, Holmgren G, et al. Bothnia dystrophy caused by mutations in the cellular retinaldehyde-binding protein gene (RLBP1) on chromosome 15q26. *Invest Ophthalmol Vis Sci* 1999;40:995–1000.
- [638] Eichers ER, Green JS, Stockton DW, et al. Newfoundland rod-cone dystrophy, an early-onset retinal dystrophy, is caused by splice-junction mutations in RLBP1. *Am J Hum Genet* 2002;70:955–64.
- [639] Katsanis N, Beales PL, Woods MO, et al. Mutations in MKKS cause obesity, retinal dystrophy and renal malformations associated with Bardet–Biedl syndrome. *Nat Genet* 2000;26:67–70.
- [640] Burststedt MS, Forsman-Semb K, Golovleva I, et al. Ocular phenotype of bothnia dystrophy, an autosomal-recessive retinitis pigmentosa associated with an R234W mutation in the RLBP1 gene. *Arch Ophthalmol* 2001;119:260–7.
- [641] Burststedt MS, Sandgren O, Golovleva I, et al. Retinal function in Bothnia dystrophy. An electrophysiological study. *Vision Res* 2003;43:2559–71.
- [642] Granse L, Abrahamson M, Ponjavic V, et al. Electrophysiological findings in two young patients with Bothnia dystrophy and a mutation in the RLBP1 gene. *Ophthalmic Genet* 2001;22:97–105.
- [643] Bagolini B, Ioli-Spada G. Bietti's tapetoretinal degeneration with marginal corneal dystrophy. *Am J Ophthalmol* 1968;65:53–60.
- [644] Bernauer W, Daicker B. Bietti's corneal-retinal dystrophy; a 16-year progression. *Retina* 1992;12:18–20.
- [645] François J, De Laey JJ. Bietti's crystalline fundus dystrophy. *Ann Ophthalmol* 1978;10:709–16.
- [646] François J, de Laey JJ. Biettische kristalline Fundusdystrophie. *Klin Monatsbl Augenheilkd* 1977;170:353–62.
- [647] Fujiwara H, Nishikiori T, Kono M. Two cases of crystalline retinopathy. *Jpn J Clin Ophthalmol* 1982;36:301–6.
- [648] Gass JDM. Discussion of article by RB Welch. *Trans Am Ophthalmol Soc* 1977;75:176–7.
- [649] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 190, 200.
- [650] Grizzard WS, Deutman AF, Nijhuis F, et al. Crystalline retinopathy. *Am J Ophthalmol* 1978;86:81–8.
- [651] Hayasaka S, Okuyama S. Crystalline retinopathy. *Retina* 1984;4:177–81.
- [652] Welch RB. Bietti's tapetoretinal degeneration with marginal corneal dystrophy: Crystalline retinopathy. *Trans Am Ophthalmol Soc* 1977;75:164–75.
- [653] Yuzawa M, Mae Y, Matsui M. Bietti's crystalline retinopathy. *Ophthalmic Paediatr Genet* 1986;7:9–20.
- [654] Lai TY, Ng TK, Tam PO, et al. Genotype phenotype analysis of Bietti's crystalline dystrophy in patients with CYP4V2 mutations. *Invest Ophthalmol Vis Sci* 2007;48:5212–20.
- [655] Ayata A, Tatlipinar S, Unal M, et al. Autofluorescence and OCT features of Bietti's crystalline dystrophy. *Br J Ophthalmol* 2008;92:718–20.
- [656] Meyer CH, Rodrigues EB, Mennel S, et al. Optical coherence tomography in a case of Bietti's crystalline dystrophy. *Acta Ophthalmol Scand* 2004;82:609–12.
- [657] Querques G, Quijano C, Bouzitou-Mfoumou R, et al. In-vivo visualization of retinal crystals in Bietti's crystalline dystrophy by spectral domain optical coherence tomography. *Ophthalmic Surg Lasers Imaging* 2010 Mar 9:1–3.
- [658] Wilson DJ, Weleber RG, Klein ML, et al. Bietti's crystalline dystrophy. A clinicopathologic correlative study. *Arch Ophthalmol* 1989;107:213–21.
- [659] Fong AM, Koh A, Lee K, et al. Bietti's crystalline dystrophy in Asians: clinical, angiographic and electrophysiological characteristics. *Int Ophthalmol* 2008, Oct 15.
- [660] Wada Y, Abe T, Shiono T, et al. Specular microscopic findings of corneal deposits in patients with Bietti's crystalline corneal retinal dystrophy. *Br J Ophthalmol* 1999;83:1095.
- [661] Yuzawa M, Mae Y, Matsui M. Bietti's crystalline retinopathy. *Ophthalmic Paediatr Genet* 1986;7:9–20.
- [662] Gekka T, Hayashi T, Takeuchi T, et al. CYP4V2 mutations in two Japanese patients with Bietti's crystalline dystrophy. *Ophthalmic Res* 2005;37:262–9.
- [663] Wada Y, Itabashi T, Sato H, et al. Screening for mutations in CYP4V2 gene in Japanese patients with Bietti's crystalline corneoretinal dystrophy. *Am J Ophthalmol* 2005;139:894–9.
- [664] Nakano M, Kelly EJ, Rettie AE. Expression and characterization of CYP4V2 as a fatty acid omega-hydroxylase. *Drug Metab Dispos* 2009;37:2119–22.
- [665] Zenteno JC, Ayala-Ramirez R, Graue-Wiechers F. Novel CYP4V2 gene mutation in a Mexican patient with Bietti's crystalline corneoretinal dystrophy. *Curr Eye Res* 2008;33:313–8.
- [666] Winkelman JE, Horsten GPM. Congenital blindness in the presence of a normal fundus. *Ophthalmologica* 1959;137:423–5.
- [667] Schappert-Kimmijser J, Henkes HE, van den Bosch J. Amaurosis congenita (Leber). *Arch Ophthalmol* 1959;61:211–8.
- [668] Noble KG, Carr RE. Leber's congenital amaurosis; a retrospective study of 33 cases and histopathological study of one case. *Arch Ophthalmol* 1978;96:818–21.
- [669] Mizuno K, Takei Y, Sears ML, et al. Leber's congenital amaurosis. *Am J Ophthalmol*. 1977;83:32–42.
- [670] Mizuno K, Hayasaka S, Tsuchiya M. Leber's congenital amaurosis in a patient with normal amino acid metabolism and fundus features characteristic of gyrate atrophy. *Am J Ophthalmol* 1983;96:806–7.
- [671] Leber T. Ueber Retinitis pigmentosa und angeborene Amaurose. Albrecht von Graefes *Arch Ophthalmol* 1869;15:1–25.
- [672] Kroll AJ, Kuwabara T. Electron microscopy of a retinal abiotrophy. *Arch Ophthalmol* 1964;71:683–90.
- [673] Hirose T, Wand O. Amaurosis congenita (Leber). *Ann Ophthalmol* 1975;7:59–63.
- [674] François J. Leber's congenital tapetoretinal degeneration. *Int Ophthalmol Clin* 1968;8:929–47.
- [675] Franceschetti A, François J, Babel J. Chorioretinal heredodegenerations. Springfield, IL: Charles C Thomas; 1974.
- [676] Franceschetti A, Dieterlé P. Importance diagnostique et pronostique de l'électroretinogramme (ERG) dans les dégénérescences tapéto-rétiniennes avec rétrécissement du champ visuel et héméralopie. *Confin Neurol* 1954;14:184–6.

- [677] Flynn JT, Cullen RF. Disc oedema in congenital amaurosis of Leber. *Br J Ophthalmol* 1975;59:497–502.
- [678] Ellis DS, Heckenlively JR, Martin CL, et al. Leber's congenital amaurosis associated with familial juvenile nephronophthisis and cone-shaped epiphyses of the hands (the Saldino–Mainzer syndrome). *Am J Ophthalmol* 1984;97:233–9.
- [679] Edwards WC, Price WD, Macdonald Jr R. Congenital amaurosis of retinal origin (Leber). *Am J Ophthalmol* 1971;72:724–8.
- [680] Dagi LR, Leys MJ, Hansen RM, et al. Hyperopia in complicated Leber's congenital amaurosis. *Arch Ophthalmol* 1990;108:709–12.
- [681] Chew E, Deutman A, Pinckers A, et al. Yellowish flecks in Leber's congenital amaurosis. *Br J Ophthalmol* 1984;68:727–31.
- [682] Alström CH, Olson OA. Heredo-retinopathia congenitalis, monohybrida recessiva autosomalis. *Hereditas* 1957;43:1–178.
- [683] Heher KL, Traboulsi EI, Maumenee IH. The natural history of Leber's congenital amaurosis; age-related findings in 35 patients. *Ophthalmology* 1992;99:241–5.
- [684] Mrak RE, Lange B, Brodsky MC. Broad A bands of striated muscle in Leber's congenital amaurosis; a new congenital myopathy? *Neurology* 1993;43:838–41. [comment *Neurology* 1994;44:190–91.]
- [685] Russell-Eggitt IM, Taylor DSI, Clayton PT, et al. Leber's congenital amaurosis – a new syndrome with a cardiomyopathy. *Br J Ophthalmol* 1989;73:250–4.
- [686] Sullivan TJ, Lambert SR, Buncic JR, et al. The optic disc in Leber congenital amaurosis. *J Pediatr Ophthalmol Strabismus* 1992;29:246–9.
- [687] Ticho B, Sieving PA. Leber's congenital amaurosis with marbleized fundus and juvenile nephronophthisis. *Am J Ophthalmol* 1989;107:426–8.
- [688] Quigley M, Jacob J-L. A possible explanation of the new fundus finding in Leber's congenital amaurosis. *Arch Ophthalmol* 1988;106:1164–5.
- [689] Schroeder R, Mets MB, Maumenee IH. Leber's congenital amaurosis; retrospective review of 43 cases and a new fundus finding in two cases. *Arch Ophthalmol* 1987;105:356–9.
- [690] Smith D, Oestreicher J, Musarella MA. Clinical spectrum of Leber's congenital amaurosis in the second to fourth decades of life. *Ophthalmology* 1990;97:1156–61.
- [691] Lambert SR, Kriss A, Taylor D, et al. Follow-up and diagnostic reappraisal of 75 patients with Leber's congenital amaurosis. *Am J Ophthalmol* 1989;107:624–31.
- [692] Steinberg A, Ronen S, Zlotogorski Z, et al. Central nervous system involvement in Leber congenital amaurosis. *J Pediatr Ophthalmol Strabismus* 1992;29:224–7.
- [693] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 3rd ed. St. Louis: CV Mosby; 1987. p. 284.
- [694] Noble KG, Carr RE, Siegel IM. Pigment epithelial dystrophy. *Am J Ophthalmol* 1977;83:751–7.
- [695] Kuntz CA, Jacobson SG, Cideciyan AV, et al. Sub-retinal pigment epithelial deposits in a dominant late-onset retinal degeneration. *Invest Ophthalmol Vis Sci* 1996;37:1772–82.
- [696] Subrayan V, Morris B, Armbrecht AM, et al. Long anterior lens zonules in late-onset retinal degeneration (L-ORD). *Am J Ophthalmol* 2005;140:1127–9.
- [697] Mandal MN, Vasireddy V, Reddy GB, et al. CTRP5 is a membrane-associated and secretory protein in the RPE and ciliary body and the S163R mutation of CTRP5 impairs its secretion. *Invest Ophthalmol Vis Sci* 2006;47:5505–13.
- [698] Gupta N, Brown KE, Milam AH. Activated microglia in human retinitis pigmentosa, late-onset retinal degeneration, and age-related macular degeneration. *Exp Eye Res* 2003;76:463–71.
- [699] Jacobson SG, Cideciyan AV, Wright E, et al. Phenotypic marker for early disease detection in dominant late-onset retinal degeneration. *Invest Ophthalmol Vis Sci* 2001;42:1882–90.
- [700] Milam AH, Curcio CA, Cideciyan AV, et al. Dominant late-onset retinal degeneration with regional variation of sub-retinal pigment epithelium deposits, retinal function, and photoreceptor degeneration. *Ophthalmology* 2000;107:2256–66.
- [701] Hamel CP, Meunier I, Arndt C, et al. Extensive macular atrophy with pseudodrusen-like appearance: a new clinical entity. *Am J Ophthalmol* 2009;147:609–20.
- [702] Ayazi S. Choroideremia, obesity, and congenital deafness. *Am J Ophthalmol* 1981;92:63–9.
- [703] Forsius H, Hyvärinen L, Nieminen H, et al. Fluorescein and indocyanine green fluorescence angiography in study of affected males and in female carriers with choroideremia; a preliminary report. *Acta Ophthalmol* 1977;55:459–70.
- [704] Ghosh M, McCulloch JC. Pathological findings from two cases of choroideremia. *Can J Ophthalmol* 1980;15:147–53.
- [705] Grützner P, Vogel MH. Klinischer Verlauf und histologischer Befund bei progressiver tapeto-chorioidealer Degeneration (Choroideremie). *Klin Monatsbl Augenheilkd* 1973;162:206–17.
- [706] Kurstjens JH. Choroideremia and gyrate atrophy of the choroid and retina. *Doc Ophthalmol* 1965;19:1–122.
- [707] McCulloch JC. The pathologic findings in two cases of choroideremia. *Trans Am Acad Ophthalmol Otolaryngol 54th Annual Mtg 1949 1950*:565–72.
- [708] McCulloch C, McCulloch RJP. A hereditary and clinical study of choroideremia. *Trans Am Acad Ophthalmol Otolaryngol 52nd Annual Mtg 1947 1948*:160–90.
- [709] Robinson D, Tiedeman J. Choroideremia associated with a subretinal neovascular membrane. *Retina* 1987;7:70–4.
- [710] Rodrigues MM, Ballantine EJ, Wiggert BN, et al. Choroideremia: a clinical, electron microscopic, and biochemical report. *Ophthalmology* 1984;91:873–83.
- [711] Rubin ML, Fishman RS, McKay RA. Choroideremia; study of a family and literature review. *Arch Ophthalmol* 1966;76:563–74.
- [712] Schmöger E, Busch I, Lukassek B. Histologischer Beitrag zur Choroideremie. *Ophthalmologica* 1973;166:144–55.
- [713] Shapiro I, Gorlin RJ. X-linked choroidal sclerosis; a stage of choroideremia. *Minn Med* 1974;57:259–62.
- [714] Schwartz SG, Noble KG, Carr RE. Choroideremia with polydactyly mimicking the Laurence–Moon–Bardet–Biedl syndrome. *Retina* 2003;23:413–5.
- [715] Seabra MC. New insights into the pathogenesis of choroideremia: a tale of two REPs. *Ophthalmic Genet* 1996;17:43–6.
- [716] Seabra MC, Ho YK, Anant JS. Deficient geranylgeranylation of Ram/Rab27 in choroideremia. *J Biol Chem* 1995;270:24420–7.
- [717] Seabra MC, Brown MS, Goldstein JL. Retinal degeneration in choroideremia: deficiency of rab geranylgeranyl transferase. *Science* 1993;259:377–81.
- [718] Seabra MC, Brown MS, Slaughter CA, et al. Purification of component A of Rab geranylgeranyl transferase: possible identity with the choroideremia gene product. *Cell* 1992;70:1049–57.
- [719] MacDonald IM, Mah DY, Ho YK, et al. A practical diagnostic test for choroideremia. *Ophthalmology* 1998;105:1637–40.
- [720] van den Hurk JA, van Zandvoort PM, Brunsmann F, et al. Prenatal exclusion of choroideremia. *Am J Med Genet* 1992;44:822–3.
- [721] Cameron JD, Fine BS, Shapiro I. Histopathologic observations in choroideremia with emphasis on vascular changes of the uveal tract. *Ophthalmology* 1987;94:187–96.
- [722] Bonilha VL, Trzupek KM, Li Y, et al. Choroideremia: analysis of the retina from a female symptomatic carrier. *Ophthalmic Genet* 2008;29:99–110.
- [723] Krill AE. Diffuse choroidal atrophies. In: Krill AE, Archer DB,

- editors. Krill's hereditary retinal and choroidal diseases, vol. 2. Clinical characteristics. New York: Harper & Row; 1977. p. 979–1041.
- [724] Hayasaka S, Shoji K, Kanno C-I, et al. Differential diagnosis of diffuse choroidal atrophies; diffuse choriocapillaris atrophy, choroideremia, and gyrate atrophy of the choroid and retina. *Retina* 1985;5:30–7.
- [725] Vainisi SJ, Beck BB, Apple DJ. Retinal degeneration in a baboon. *Am J Ophthalmol* 1974;78:279–84.
- [726] Tso MOM, Santos-Anderson RM, Vainisi SJ. Heredofamilial retinal dystrophy in Guinea baboons. I. A histopathologic study. *Arch Ophthalmol* 1983;101:1597–603.
- [727] Santos-Anderson RM, Tso MOM, Vainisi SJ. Heredofamilial retinal dystrophy in Guinea baboons. II. Electron microscopic observations. *Arch Ophthalmol* 1983;101:1762–70.
- [728] Miyake Y, Ichikawa K, Tokuda H, et al. The clinical properties in progressive cone-rod dystrophy. *Jpn J Clin Ophthalmol* 1982;36:323–9.
- [729] Miyake Y, Goto S, Ota I, et al. Vitreous fluorophotometry in patients with cone-rod dystrophy. *Br J Ophthalmol* 1984;68:489–93.
- [730] Hittner HM, Murphree AL, Garcia CA, et al. Dominant cone-rod dystrophy. *Doc Ophthalmol* 1975;39:29–52.
- [731] Fishman GA. Progressive human cone-rod dysfunction (dystrophy). *Trans Am Acad Ophthalmol Otolaryngol* 1976;81:OP716–OP724.
- [732] Szlyk JP, Fishman GA, Alexander KR, et al. Clinical subtypes of cone-rod dystrophy. *Arch Ophthalmol* 1993;111:781–8.
- [733] Yagasaki K, Jacobson SG. Cone-rod dystrophy; phenotypic diversity by retinal function testing. *Arch Ophthalmol* 1989;107:701–8.
- [734] Hamel CP. Cone rod dystrophies. *Orphanet J Rare Dis* 2007;2:7.
- [735] Rabb MF, Tso MOM, Fishman GA. Cone-rod dystrophy; a clinical and histopathologic report. *Ophthalmology* 1986;93:1443–51.
- [736] Leon A, Curtis R. Autosomal-dominant rod-cone dysplasia in the Rdy cat. I. Light and electron microscopic findings. *Exp Eye Res* 1990;51:361–81.
- [737] Warburg M, Sjo O, Tranebjaerg L, et al. Deletion mapping of a retinal cone-rod dystrophy; assignment to 18q211. *Am J Med Genet* 1991;39:288–93.
- [738] Favre M. A propos de deux cas de dégénérescence hyaloïdéo-rétinienne. *Ophthalmologica* 1958;135:604–9.
- [739] Fishman GA, Jampol LM, Goldberg MF. Diagnostic features of the Favre-Goldmann syndrome. *Br J Ophthalmol* 1976;60:345–53.
- [740] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 290–91.
- [741] Goldmann H. Présentation du rapport sur la biomicroscopie du corps vitré et du fond de l'oeil. *Bull Mem Soc Fr Ophthalmol* 1957;70:265–72.
- [742] Nasr YG, Cherfan GM, Michels RG, et al. Goldmann-Favre maculopathy. *Retina* 1990;10:178–80.
- [743] Noble KG, Carr RE, Siegel IM. Familial foveal retinoschisis associated with a rod-cone dystrophy. *Am J Ophthalmol* 1978;85:551–7.
- [744] Peyman GA, Fishman GA, Sanders DR, et al. Histopathology of Goldmann-Favre syndrome obtained by full-thickness eye-wall biopsy. *Ann Ophthalmol* 1977;9:479–84.
- [745] Hirose T, Schepens CL, Brockhurst RJ, et al. Congenital retinoschisis with night blindness in two girls. *Ann Ophthalmol* 1980;12:848–56.
- [746] Hood DC, Cideciyan AV, Roman AJ, et al. Enhanced S cone syndrome: evidence for an abnormally large number of S cones. *Vision Res* 1995;35:1473–81.
- [747] Jacobson SG, Marmor MF, Kemp CM, et al. SWS (blue) cone hypersensitivity in a newly identified retinal degeneration. *Invest Ophthalmol Vis Sci* 1990;31:827–38.
- [748] Jacobson SG, Román AJ, Román MI, et al. Relatively enhanced S cone function in the Goldmann-Favre syndrome. *Am J Ophthalmol* 1991;111:446–53.
- [749] Kellner U, Foerster MH. Netzhautdegeneration mit Blauzapfenhypersensitivität. *Fortschr Ophthalmol* 1991;88:637–41.
- [750] Marmor MF, Jacobson SG, Foerster MH, et al. Diagnostic clinical findings of a new syndrome with night blindness, maculopathy, and enhanced S cone sensitivity. *Am J Ophthalmol* 1990;110:124–34.
- [751] Schorderet DF, Escher P. NR2E3 mutations in enhanced S-cone sensitivity syndrome (ESCS), Goldmann-Favre syndrome (GFS), clumped pigmentary retinal degeneration (CPRD), and retinitis pigmentosa (RP). *Hum Mutat* 2009;30:1475–85.
- [752] Pachydaki SI, Klaver CC, Barbazetto IA, et al. Phenotypic features of patients with NR2E3 mutations. *Arch Ophthalmol* 2009;127:71–5.
- [753] Escher P, Gouras P, Roduit R, et al. Mutations in NR2E3 can cause dominant or recessive retinal degenerations in the same family. *Hum Mutat* 2009;30:342–51.
- [754] Chavala SH, Sari A, Lewis H, et al. An Arg311Gln NR2E3 mutation in a family with classic Goldmann-Favre syndrome. *Br J Ophthalmol* 2005;89:1065–6.
- [755] Wright AF, Reddick AC, Schwartz SB, et al. Mutation analysis of NR2E3 and NRL genes in Enhanced S Cone Syndrome. *Hum Mutat* 2004;24:439.
- [756] Sharon D, Sandberg MA, Caruso RC, et al. Shared mutations in NR2E3 in enhanced S-cone syndrome, Goldmann-Favre syndrome, and many cases of clumped pigmentary retinal degeneration. *Arch Ophthalmol* 2003;121:1316–23.
- [757] Haider NB, Jacobson SG, Cideciyan AV, et al. Mutation of a nuclear receptor gene, NR2E3, causes enhanced S cone syndrome, a disorder of retinal cell fate. *Nat Genet* 2000;24:127–31.
- [758] Lewis RA, Lee GB, Martonyi CL, et al. Familial foveal retinoschisis. *Arch Ophthalmol* 1977;95:1190–6.
- [759] Yassar Y, Nissenkorn I, Ben-Sira I, et al. Autosomal-dominant inheritance of retinoschisis. *Am J Ophthalmol* 1982;94:338–43.
- [760] Yanoff M, Rahn EK, Zimmerman LE. Histopathology of juvenile retinoschisis. *Arch Ophthalmol* 1968;79:49–53.
- [761] Tasman W. Macular changes in congenital retinoschisis. *Mod Probl Ophthalmol* 1975;15:40–7.
- [762] Manschot WA. Pathology of hereditary juvenile retinoschisis. *Arch Ophthalmol* 1972;88:131–8.
- [763] Krause U, Vainio-Mattila B, Eriksson A, et al. Fluorescein angiographic studies on X-chromosomal retinoschisis. *Acta Ophthalmol* 1970;48:794–807.
- [764] Harris GS, Yeung JW-S. Maculopathy of sex-linked juvenile retinoschisis. *Can J Ophthalmol* 1976;11:1–10.
- [765] Green Jr JL, Jampol LM. Vascular opacification and leakage in X-linked (juvenile) retinoschisis. *Br J Ophthalmol* 1979;63:368–73.
- [766] Gieser EP, Falls HF. Hereditary retinoschisis. *Am J Ophthalmol* 1961;51:1193–200.
- [767] Forsius H, Krause U, Helve J, et al. Visual acuity in 183 cases of X-chromosomal retinoschisis. *Can J Ophthalmol* 1973;8:385–93.
- [768] Forsius H, Vainio-Mattila B, Eriksson A. X-linked hereditary retinoschisis. *Br J Ophthalmol* 1962;46:678–81.
- [769] Ewing CC, Cullen AP. Fluorescein angiography in X-chromosomal maculopathy with retinoschisis (juvenile

- hereditary retinoschisis). *Can J Ophthalmol* 1972;7:19–28.
- [770] Ewing CC, Ives EJ. Juvenile hereditary retinoschisis. *Trans Ophthalmol Soc UK* 1969;89:29–39.
- [771] Deutman AF. The hereditary dystrophies of the posterior pole of the eye. Assen: Van Gorcum; 1971. p. 48.
- [772] Dahl N, Pettersson U. Use of linked DNA probes for carrier detection and diagnosis of X-linked juvenile retinoschisis. *Arch Ophthalmol* 1988;106:1414–6.
- [773] Conway BP, Welch RB. X-chromosome-linked juvenile retinoschisis with hemorrhagic retinal cyst. *Am J Ophthalmol* 1977;83:853–5.
- [774] Constantaras AA, Dobbie JG, Choromokos EA, et al. Juvenile sex-linked recessive retinoschisis in a black family. *Am J Ophthalmol* 1972;74:1166–78.
- [775] Burns RP, Lovrien EW, Cibis AB. Juvenile sex-linked retinoschisis: clinical and genetic studies. *Trans Am Acad Ophthalmol Otolaryngol* 1971;75:1011–21.
- [776] Arkfeld DF, Brockhurst RJ. Vascularized vitreous membranes in congenital retinoschisis. *Retina* 1987;7:20–3.
- [777] Tasman W, Greven C, Moreno R. Nasal retinal dragging in X-linked retinoschisis. *Graefes Arch Clin Exp Ophthalmol* 1991;229:319–22.
- [778] Pearson R, Jagger J. Sex linked juvenile retinoschisis with optic disc and peripheral retinal neovascularisation. *Br J Ophthalmol* 1989;73:311–3.
- [779] de Jong PTVM, Zrenner E, van Meel GJ, et al. Mizuo phenomenon in X-linked retinoschisis. *Arch Ophthalmol* 1991;109:1104–8.
- [779a] Agarwal A, Rao US. Outer retinal corrugations in x-linked juvenile retinoschisis. *Arch Ophthalmol* 2007;125(2):278–9.
- [780] Kellner U, Brümmer S, Foerster MH, et al. X-linked congenital retinoschisis. *Graefes Arch Clin Exp Ophthalmol* 1990;228:432–7.
- [781] Arden GB, Gorin MB, Polkinghorne PJ, et al. Detection of the carrier state of X-linked retinoschisis. *Am J Ophthalmol* 1988;105:590–5.
- [782] Peachey NS, Fishman GA, Derlacki DJ, et al. Psychophysical and electroretinographic findings in X-linked juvenile retinoschisis. *Arch Ophthalmol* 1987;105:513–6.
- [783] Condon GP, Brownstein S, Wang N-S, et al. Congenital hereditary (juvenile X-linked) retinoschisis; histopathologic and ultrastructural findings in three eyes. *Arch Ophthalmol* 1986;104:576–83.
- [784] Turut P, François P, Castier P, et al. Analysis of results in the treatment of peripheral retinoschisis in sex-linked congenital retinoschisis. *Graefes Arch Clin Exp Ophthalmol* 1989;227:328–31.
- [785] Han DP, Sieving PA, Johnson MW, et al. Foveal retinoschisis associated with senile retinoschisis in a woman. *Am J Ophthalmol* 1988;106:107–9.
- [786] Shimazaki J, Matsushashi M. Familial retinoschisis in female patients. *Doc Ophthalmol* 1987;65:393–400.
- [787] Yamaguchi K, Hara S. Autosomal juvenile retinoschisis without foveal retinoschisis. *Br J Ophthalmol* 1989;73:470–3.
- [788] Blair NP, Goldberg MF, Fishman GA, et al. Autosomal-dominant vitreoretinopathopathy (ADVIRC). *Br J Ophthalmol* 1984;68:2–9.
- [789] Goldberg MF, Lee F-L, Tso MOM, et al. Histopathologic study of autosomal-dominant vitreoretinopathopathy; peripheral annular pigmentary dystrophy of the retina. *Ophthalmology* 1989;96:1736–46.
- [790] Kaufman SJ, Goldberg MF, Orth DH, et al. Autosomal-dominant vitreoretinopathopathy. *Arch Ophthalmol* 1982;100:272–8.
- [791] Traboulsi EI, Payne JW. Autosomal-dominant vitreoretinopathopathy; report of the third family. *Arch Ophthalmol* 1993;111:194–6.
- [792] Bridges CDB, Alvarez RA. Selective loss of 11-cis vitamin A in an eye with hereditary chorioretinal degeneration similar to sector retinitis pigmentosa. *Retina* 1982;2:256–60.
- [793] Gass J. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 294.
- [794] Noble KG. Peripapillary (pericentral) pigmentary retinal degeneration. *Am J Ophthalmol* 1989;108:686–90.
- [795] Noble KG, Carr RE. Peripapillary pigmentary retinal degeneration. *Am J Ophthalmol* 1978;86:65–75.
- [796] O'Connor PR, John ME, Lawwill T, et al. Atypical retinitis pigmentosa. *Ann Ophthalmol* 1974;6:824–6.
- [797] Traboulsi EI, O'Neil JF, Maumenee IH. Autosomal-recessive pericentral pigmentary retinopathy. *Am J Ophthalmol* 1988;106:551–6.
- [798] Schocket SS, Ballin N. Circinate choroidal sclerosis. *Trans Am Acad Ophthalmol Otolaryngol* 1970;74:527–33.
- [799] Watanabe I, Miyake Y, Asano T, et al. Pigmented paravenous retinochoroidal atrophy. *Jpn Rev Clin Ophthalmol* 1972;66:1156–9.
- [800] Traboulsi EI, Maumenee IH. Hereditary pigmented paravenous chorioretinal atrophy. *Arch Ophthalmol* 1986;104:1636–40.
- [801] Takei Y, Harada M, Mizuno K. Pigmented paravenous retinochoroidal atrophy. *Jpn J Ophthalmol* 1977;21:311–7.
- [802] Skalka HW. Hereditary pigmented paravenous retinochoroidal atrophy. *Am J Ophthalmol* 1979;87:286–91.
- [803] Pearlman JT, Kamin DF, Kopelow SM, et al. Pigmented paravenous retinochoroidal atrophy. *Am J Ophthalmol* 1975;80:630–5.
- [804] Noble KG, Carr RE. Pigmented paravenous chorioretinal atrophy. *Am J Ophthalmol* 1983;96:338–44.
- [805] Miller SA, Stevens TS, Myers F, et al. Pigmented paravenous retinochoroidal atrophy. *Ann Ophthalmol* 1978;10:867–71.
- [806] Hirose T, Miyake Y. Pigmentary paravenous chorioretinal degeneration: fundus appearance and retinal functions. *Ann Ophthalmol* 1979;11:709–18.
- [807] Chisholm IA, Dudgeon J. Pigmented paravenous retino-choroidal atrophy; helicoid retino-choroidal atrophy. *Br J Ophthalmol* 1973;57:584–7.
- [808] Amalric P, Pigmentierte Schum U. paravenöse Netz- und Aderhautatrophie. *Klin Monatsbl Augenheilkd* 1968;153:770–5.
- [809] Rothberg DS, Cibis GW, Trese M. Paravenous pigmentary retinochoroidal atrophy. *Ann Ophthalmol* 1984;16:643–6.
- [810] Chen M-S, Yang C-H, Huang J-S. Bilateral macular coloboma and pigmented paravenous retinochoroidal atrophy. *Br J Ophthalmol* 1992;76:250–1.
- [811] Fleckenstein M, Charbel Issa P, Fuchs HA, et al. Discrete arcs of increased fundus autofluorescence in retinal dystrophies and functional correlate on microperimetry. *Eye* 2009;23:567–75.
- [812] Fleckenstein M, Charbel Issa P, Helb HM, et al. Correlation of lines of increased autofluorescence in macular dystrophy and pigmented paravenous retinochoroidal atrophy by optical coherence tomography. *Arch Ophthalmol* 2008;126:1461–3.
- [813] Noble KG. Hereditary pigmented paravenous chorioretinal atrophy. *Am J Ophthalmol* 1989;108:365–9.
- [814] Limaye SR, Mahmood MA. Retinal microangiopathy in pigmented paravenous chorioretinal atrophy. *Br J Ophthalmol* 1987;71:757–61.
- [815] Small KW, Anderson Jr WB. Pigmented paravenous retinochoroidal atrophy; discordant expression in monozygotic twins. *Arch Ophthalmol* 1991;109:1408–10.
- [816] Yamaguchi K, Hara S, Tanifuji Y, et al. Inflammatory pigmented paravenous retinochoroidal atrophy. *Br J Ophthalmol*



- 1989;73:463-7.
- [817] Choi JY, Sandberg MA, Berson EL. Natural course of ocular function in pigmented paravenous retinochoroidal atrophy. *Am J Ophthalmol* 2006;141:763-5.
- [818] Kukner AS, Yilmaz T, Celebi S, et al. Pigmented paravenous retinochoroidal atrophy. A literature review supported by seven cases. *Ophthalmologica* 2003;217:436-40.
- [819] Obata R, Yanagi Y, Iriyama A, et al. A familial case of pigmented paravenous retinochoroidal atrophy with asymmetrical fundus manifestations. *Graefes Arch Clin Exp Ophthalmol* 2006;244:874-7.
- [820] Bozkurt N, Bavbek T, Kazokoglu H. Hereditary pigmented paravenous chorioretinal atrophy. *Ophthalmic Genet* 1998;19:99-104.
- [821] Traboulsi EI, Maumenee IH. Hereditary pigmented paravenous chorioretinal atrophy. *Arch Ophthalmol* 1986;104:1636-40.
- [822] Bietti G. Su alcune forme atipiche o rare di degenerazione retinica (degenerazioni tappeto-retiniche e quadri morbosi similari). *Boll Oculist* 1937;16:1159-244.
- [823] Bisantis C. La retinopathie pigmentaire en secteur de G.B. Bietti; contribution à la connaissance de ses divers aspects cliniques. *Ann Oculist* 1971;204:907-54.
- [824] Franceschetti A, François J, Babel J. Chorioretinal heredodegenerations. Springfield, IL: Charles C Thomas; 1974. p. 254.
- [825] François J, de Rouck A, Golan A. ERG in sectorial pigmentary retinopathy. *Doc Ophthalmol Proc Ser* 1977;13:239-44.
- [826] Hollyfield JG, Frederick JM, Tabor GA, et al. Metabolic studies on retinal tissue from a donor with a dominantly inherited chorioretinal degeneration resembling sectoral retinitis pigmentosa. *Ophthalmology* 1984;91:191-6.
- [827] Krill AE, Archer D, Martin D. Sector retinitis pigmentosa. *Am J Ophthalmol*. 1970;69:977-87.
- [828] Massof RW, Finkelstein D. Vision threshold profiles in sector retinitis pigmentosa. *Arch Ophthalmol* 1979;97:1899-904.
- [829] Rayborn ME, Moorhead LC, Hollyfield JG. A dominantly inherited chorioretinal degeneration resembling sectoral retinitis pigmentosa. *Ophthalmology* 1982;89:1441-54.
- [830] Sullivan LJ, Makris GS, Dickinson P, et al. A new codon 15 rhodopsin gene mutation in autosomal-dominant retinitis pigmentosa is associated with sectorial disease. *Arch Ophthalmol* 1993;111:1512-7.
- [831] Fulton AB, Hansen RM. The relationship of rhodopsin and scotopic retinal sensitivity in sector retinitis pigmentosa. *Am J Ophthalmol* 1988;105:132-40.
- [832] Omphroy CA. Sector retinitis pigmentosa and chronic angle-closure glaucoma: a new association. *Ophthalmologica* 1984;189:12-20.
- [833] Osman SA, Aylin Y, Arikan G, et al. Photodynamic treatment of a secondary vasoproliferative tumour associated with sector retinitis pigmentosa and Usher syndrome type I. *Clin Experiment Ophthalmol* 2007;35:191-3.
- [834] Meyerle CB, Fisher YL, Spaide RF. Autofluorescence and visual field loss in sector retinitis pigmentosa. *Retina* 2006;26:248-50.
- [835] Saperstein DA. Sector retinitis pigmentosa with bitemporal visual field defects and macular hole. *Retina* 2001;21:73-4.
- [836] Godel V, Iaina A, Nemet P, et al. Sector retinitis pigmentosa in juvenile nephronophthisis. *Br J Ophthalmol* 1980;64:124-6.
- [837] Heidemann DG, Beck RW. Retinitis pigmentosa: A mimic of neurologic disease. *Surv Ophthalmol*. 1987;32:45-51.
- [838] Heckenlively JR, Rodriguez JA, Daiger SP. Autosomal-dominant sectorial retinitis pigmentosa; two families with transversion mutation in codon 23 of rhodopsin. *Arch Ophthalmol* 1991;109:84-91.
- [839] Moore AT, Fitzke FW, Kemp CM, et al. Abnormal dark adaptation kinetics in autosomal-dominant sector retinitis pigmentosa due to rod opsin mutation. *Br J Ophthalmol* 1992;76:465-9.
- [840] Carr RE, Siegel IM. Unilateral retinitis pigmentosa. *Arch Ophthalmol* 1973;90:21-6.
- [841] François J, Verriest G. Rétinopathie pigmentaire unilatérale. *Ophthalmologica* 1952;124:65-88.
- [842] Henkes HE. Does unilateral retinitis pigmentosa really exist? An ERG and EOG study of the fellow eye. In: Burian HM, Jacobson JH, editors. *Clinical electroretinography: proceedings of the Third International Symposium held in October, 1964*. Oxford: Pergamon Press; 1966. p. 327-50.
- [843] Weleber RG, Kennaway NG. Clinical trial of vitamin B6 for gyrate atrophy of the choroid and retina. *Ophthalmology* 1981;88:316-24.
- [844] Takki K. Gyrate atrophy of the choroid and retina associated with hyperornithinaemia. *Br J Ophthalmol* 1974;58:3-23.
- [845] Takki K, Simell O. Genetic aspects in gyrate atrophy of the choroid and retina with hyperornithinaemia. *Br J Ophthalmol* 1974;58:907-16.
- [846] Takki KK, Milton RC. The natural history of gyrate atrophy of the choroid and retina. *Ophthalmology* 1981;88:292-301.
- [847] Valle D, Walser M, Brusilow S, et al. Gyrate atrophy of the choroid and retina; biochemical considerations and experience with arginine-restricted diet. *Ophthalmology* 1981;88:325-30.
- [848] Vannas-Sulonen K. Progression of gyrate atrophy of the choroid and retina; a long-term follow-up by fluorescein angiography. *Acta Ophthalmol* 1987;65:101-9.
- [849] Sipilä I, Rapola J, Simell O, et al. Supplementary creatine as a treatment for gyrate atrophy of the choroid and retina. *N Engl J Med* 1981;304:867-70.
- [850] McCulloch C, Marliss EB. Gyrate atrophy of the choroid and retina: clinical, ophthalmologic, and biochemical considerations. *Trans Am Ophthalmol Soc* 1975;73:153-71.
- [851] McCulloch C, Marliss EB. Gyrate atrophy of the choroid and retina with hyperornithinemia. *Am J Ophthalmol* 1975;80:1047-57.
- [852] McCulloch JC, Arshinoff SA, Marliss EB, et al. Hyperornithinemia and gyrate atrophy of the choroid and retina. *Ophthalmology* 1978;85:918-28.
- [853] Mehta MC, Katsumi O, Shih VE, et al. Gyrate atrophy of the choroid and retina in a five-year-old girl. *Acta Ophthalmol* 1991;69:810-4.
- [854] Mashima Y, Murakami A, Weleber RG, et al. Nonsense-codon mutations of the ornithine aminotransferase gene with decreased levels of mutant mRNA in gyrate atrophy. *Am J Hum Genet* 1992;51:81-91.
- [855] Kaiser-Kupfer MI, de Monasterio F, Valle D, et al. Visual results of a long-term trial of a low-arginine diet in gyrate atrophy of choroid and retina. *Ophthalmology* 1981;88:307-10.
- [856] Kaiser-Kupfer MI, Kuwabara T, Askanas V, et al. Systemic manifestations of gyrate atrophy of the choroid and retina. *Ophthalmology* 1981;88:302-6.
- [857] Kaiser-Kupfer MI, Ludwig IH, de Monasterio F, et al. Gyrate atrophy of the choroid and retina; early findings. *Ophthalmology* 1985;92:394-401.
- [858] Kuwabara T, Ishikawa Y, Kaiser-Kupfer MI. Experimental model of gyrate atrophy in animals. *Ophthalmology* 1981;88:331-4.
- [859] Hayasaka S, Mizuno K, Yabata K, et al. Atypical gyrate atrophy of the choroid and retina associated with iminoglycinuria. *Arch Ophthalmol* 1982;100:423-5.
- [860] Hayasaka S, Saito T, Nakajima H, et al. Gyrate atrophy with hyperornithinaemia: different types of responsiveness to vitamin

- B6. *Br J Ophthalmol* 1981;65:478–83.
- [861] Enoch JM, O'Donnell J, Williams RA, et al. Retinal boundaries and visual function in gyrate atrophy. *Arch Ophthalmol* 1984;102:1314–6.
- [862] Deutman AF, Sengers RCA, Trybels JMF. Gyrate atrophy of the choroid and retina with reticular pigmentary dystrophy and ornithine-ketoacid-transaminase deficiency. *Int Ophthalmol* 1978;1:49–56.
- [863] Berson EL, Shih VE, Sullivan PL. Ocular findings in patients with gyrate atrophy on pyridoxine and low-protein, low-arginine diets. *Ophthalmology* 1981;88:311–5.
- [864] Bargum R. Differential diagnosis of normoornithinaemic gyrate atrophy of the choroid and retina. *Acta Ophthalmol* 1986;64:369–73.
- [865] Bakker HD, Abeling NG, van Schooneveld MJ, et al. A far advanced case of gyrate atrophy in a 12-year-old girl. *J Inherit Metab Dis* 1991;14:379–81.
- [866] Weleber RG, Kurz DE, Trzupke KM. Treatment of retinal and choroidal degenerations and dystrophies: current status and prospects for gene-based therapy. *Ophthalmol Clin North Am* 2003;16:583–93. vii
- [867] Feldman RB, Mayo SS, Robertson DM, et al. Epiretinal membranes and cystoid macular edema in gyrate atrophy of the choroid and retina. *Retina* 1989;9:139–42.
- [868] Brody LC, Mitchell GA, Obie C, et al. Ornithine delta-aminotransferase mutations in gyrate atrophy. Allelic heterogeneity and functional consequences. *J Biol Chem* 1992;267:3302–7.
- [869] Fleury M, Barbier R, Ziegler F, et al. Myopathy with tubular aggregates and gyrate atrophy of the choroid and retina due to hyperornithinaemia. *J Neurol Neurosurg Psychiatry* 2007;78:656–7.
- [870] Valtonen M, Nanto-Salonen K, Jaaskelainen S, et al. Central nervous system involvement in gyrate atrophy of the choroid and retina with hyperornithinaemia. *J Inherit Metab Dis* 1999;22:855–66.
- [871] Kaiser-Kupfer MI, Kuwabara T, Askanas V, et al. Systemic manifestations of gyrate atrophy of the choroid and retina. *Ophthalmology* 1981;88:302–6.
- [872] Wilson DJ, Weleber RG, Green WR. Ocular clinicopathologic study of gyrate atrophy. *Am J Ophthalmol* 1991;111:24–33.
- [873] Wirtz MK, Kennaway NG, Weleber RG. Heterogeneity and complementation analysis of fibroblasts from vitamin B6 responsive and non-responsive patients with gyrate atrophy of the choroid and retina. *J Inherit Metab Dis* 1985;8:71–4.
- [874] Akaki Y, Hotta Y, Mashima Y, et al. A deletion in the ornithine aminotransferase gene in gyrate atrophy. *J Biol Chem* 1992;267:12950–4.
- [875] Brody LC, Mitchell GA, Obie C, et al. Ornithine delta-aminotransferase mutations in gyrate atrophy; allelic heterogeneity and functional consequences. *J Biol Chem* 1992;267:3302–7.
- [876] Mito T, Shiono T, Ishiguro S, et al. Immunocytochemical localization of ornithine aminotransferase in human ocular tissues. *Arch Ophthalmol* 1989;107:1372–4.
- [877] Kaiser-Kupfer MI, Caruso RC, Valle D. Gyrate atrophy of the choroid and retina; long-term reduction of ornithine slows retinal degeneration. *Arch Ophthalmol* 1991;109:1539–48.
- [878] Vannas-Sulonen K, Simell O, Sipilä I. Gyrate atrophy of the choroid and retina; the ocular disease progresses in juvenile patients despite normal or near normal plasma ornithine concentration. *Ophthalmology* 1987;94:1428–33.
- [879] François J. Ocular manifestations in certain congenital errors of metabolism. In: Symposium on surgical and medical management of congenital anomalies of the eye; transactions of the New Orleans Academy of Ophthalmology, St. Louis, 1968. p. 157–98.
- [880] Hooft C, DeLaey P, Herpol J, et al. Familial hypolipidaemia and retarded development without steatorrhoea; another inborn error of metabolism? *Helv Paediatr Acta* 1962;17:1–23.
- [881] Dufier JL, Dhermy P, Gubler MC, et al. Ocular changes in long-term evolution of infantile cystinosis. *Ophthalmic Paediatr Genet* 1987;8:131–7.
- [882] Fellers FX, Cogan DG, Donaldson DD. Cystinosis with extensive choroidal involvement. *Arch Ophthalmol* 1965;74:868–969.
- [883] Kaiser-Kupfer MI, Caruso RC, Minkler DS, et al. Long-term ocular manifestations in nephropathic cystinosis. *Arch Ophthalmol* 1986;104:706–11.
- [884] Kaiser-Kupfer MI, Gazzo MA, Datiles MB, et al. A randomized placebo-controlled trial of cysteamine eye drops in nephropathic cystinosis. *Arch Ophthalmol* 1990;108:689–93.
- [885] Okami T, Nakajima M, Higashino H, et al. Ocular manifestations in a case of infantile cystinosis. *Acta Soc Ophthalmol Jpn* 1992;96:1341–6.
- [886] Read J, Goldberg MF, Fishman G, et al. Nephropathic cystinosis. *Am J Ophthalmol* 1973;76:791–6.
- [887] Richler M, Milot J, Quigley M, et al. Ocular manifestations of nephropathic cystinosis; the French-Canadian experience in a genetically homogeneous population. *Arch Ophthalmol* 1991;109:359–62.
- [888] Sanderson PO, Kuwabara T, Stark WJ, et al. Cystinosis; a clinical, histopathologic, and ultrastructural study. *Arch Ophthalmol* 1974;91:270–4.
- [889] Winter FC, editor. Case report presented at the Verhoeff Society meeting, Washington, DC: 1975.
- [890] Wong VG, Lietman PS, Seegmiller JE. Alterations of pigment epithelium in cystinosis. *Arch Ophthalmol* 1967;77:361–9.
- [891] Spencer WH, Hogan MJ. Ocular manifestations of Chédiak-Higashi syndrome; report of a case with histopathologic examination of ocular tissues. *Am J Ophthalmol* 1960;50:1197–203.
- [892] Spedick MJ, Beauchamp GR. Retinal vascular and optic nerve abnormalities in albinism. *J Pediatr Ophthalmol Strabismus* 1986;23:58–63.
- [893] Simon JW, Kandel GL, Krohel GB, et al. Albinotic characteristics in congenital nystagmus. *Am J Ophthalmol* 1984;97:320–7.
- [894] O'Donnell Jr FE, Green WR, Fleischman JA, et al. X-linked ocular albinism in blacks; ocular albinism cum pigmento. *Arch Ophthalmol* 1978;96:1189–92.
- [895] O'Donnell Jr FE, Hambrick Jr GW, Green WR, et al. X-linked ocular albinism; an oculocutaneous macromelanosomal disorder. *Arch Ophthalmol* 1976;94:1883–92.
- [896] O'Donnell Jr FE, King RA, Green WR, et al. Autosomal-recessively inherited ocular albinism; a new form of ocular albinism affecting females as severely as males. *Arch Ophthalmol* 1978;96:1621–5.
- [897] Nettleship E. On some hereditary diseases of the eye. *Trans Ophthalmol Soc UK* 1909;29:LVII–CXCVIII.
- [898] Naumann GOH, Lerche W, Schroeder W. Foveola-Aplasia bei Tyrosinase-positivem oculocutanen Albinismus; Klinisch-pathologische Befunde. *Graefes Arch Klin Exp Ophthalmol* 1976;200:39–50.
- [899] Jay B, Carroll W. Albinism; recent advances. *Trans Ophthalmol Soc UK* 1980;100:467–71.
- [900] Goldberg MF. Waardenburg's syndrome with fundus and other anomalies. *Arch Ophthalmol* 1966;76:797–810.
- [901] Gillespie FD. Ocular albinism with report of a family with female carriers. *Arch Ophthalmol* 1961;66:774–7.
- [902] Fulton AB, Albert DM, Craft JL. Human albinism; light and

- electron microscopy study. *Arch Ophthalmol* 1978;96:305–10.
- [903] Falls HF. Sex-linked ocular albinism displaying typical fundus changes in the female heterozygote. *Am J Ophthalmol* 1951;34:41–50.
- [904] Epstein RL. Inborn metabolic disorders and the eye. In: Peyman GA, Sanders DR, Goldberg MF, editors. *Principles and practice of ophthalmology*. Philadelphia: WB Saunders; 1980. p. 1755–7.
- [905] Cross HE, McKusick VA, Breen W. A new oculocerebral syndrome with hypopigmentation. *J Pediatr* 1967;70:398–406.
- [906] Bard LA. Heterogeneity in Waardenburg's syndrome; report of a family with ocular albinism. *Arch Ophthalmol* 1978;96:1193–8.
- [907] Bergsma DR, Kaiser-Kupfer M. A new form of albinism. *Am J Ophthalmol* 1974;77:837–44.
- [908] Garner A, Jay BS. Macromelanosomes in X-linked ocular albinism. *Histopathology* 1980;4:243–54.
- [909] Gregor Z. The perifoveal vasculature in albinism. *Br J Ophthalmol* 1978;62:554–7.
- [910] King RA, Lewis RA, Townsend D, et al. Brown oculocutaneous albinism; clinical, ophthalmological, and biochemical characterization. *Ophthalmology* 1985;92:1496–505.
- [911] Witkop Jr CJ, Quevedo Jr WC, Fitzpatrick TB, et al. Albinism. In: Scriver CR, Beaudet AC, Sly WS, editors. *The metabolic basis of inherited disease* (6th ed.). New York: McGraw-Hill; 1989. p. 2905–51.
- [912] Summers CG, King RA. Ophthalmic features of minimal pigment oculocutaneous albinism. *Ophthalmology* 1994;101:906–14.
- [913] Summers CG, Knobloch WH, Witkop Jr CJ, et al. Hermansky-Pudlak syndrome; ophthalmic findings. *Ophthalmology* 1988;95:545–54.
- [914] Thompson WS, Curtin VT. Congenital bilateral heterochromia of the choroid and iris. *Arch Ophthalmol* 1994;112:1247–8.
- [915] Maguire AM, Maumenee IH. Iris pigment mosaicism in carriers of X-linked ocular albinism cum pigmento. *Am J Ophthalmol* 1989;107:298–9.
- [916] Mietz H, Green WR, Wolff SM, et al. Foveal hypoplasia in complete oculocutaneous albinism; a histopathologic study. *Retina* 1992;12:254–60.
- [917] Weleber RG, Pillers D-AM, Powell BR, et al. Åland Island eye disease (Forsius-Eriksson syndrome) associated with contiguous deletion syndrome at Xp21; similarity to incomplete congenital stationary night blindness. *Arch Ophthalmol* 1989;107:1170–9.
- [918] Russell-Eggitt I, Kriss A, Taylor DSI. Albinism in childhood: a flash VEP and ERG study. *Br J Ophthalmol* 1990;74:136–40.
- [919] Wack MA, Peachey NS, Fishman GA. Electroretinographic findings in human oculocutaneous albinism. *Ophthalmology* 1989;96:1778–85.
- [920] Curran RE, Robb RM. Isolated foveal hypoplasia. *Arch Ophthalmol* 1976;94:48–50.
- [921] O'Donnell Jr FE, Pappas HR. Autosomal-dominant foveal hypoplasia and presenile cataracts; a new syndrome. *Arch Ophthalmol* 1982;100:279–81.
- [922] Oliver MD, Dotan SA, Chemke J, et al. Isolated foveal hypoplasia. *Br J Ophthalmol* 1987;71:926–30.
- [923] Besio R, Meerhoff E, Laza J, et al. Oxalosis. *Am J Ophthalmol* 1983;95:397–8.
- [924] Fielder AR, Garner A, Chambers TL. Ophthalmic manifestations of primary oxalosis. *Br J Ophthalmol* 1980;64:782–8.
- [925] Franceschetti A, François J, Babel J. *Chorioretinal heredodegenerations*. Springfield, IL: Charles C Thomas; 1974. p. 907.
- [926] Gottlieb RP, Ritter JA. "Flecked retina" – an association with primary hyperoxaluria. *J Pediatr* 1977;90:939–42.
- [927] Meredith TA, Wright JD, Gammon JA, et al. Ocular involvement in primary hyperoxaluria. *Arch Ophthalmol* 1984;102:584–7.
- [928] Timm G. Das Krankheitsbild der Retinopathia oxalogenica. *Klin Monatsbl Augenheilkd* 1976;168:537–43.
- [929] Toussaint D, Vereerstraeten P, Goffin P, et al. Hyperoxalurie primaire: Étude clinique, histologique et cristallographique des lésions oculaires. *Arch Ophthalmol (Paris)* 1976;36:97–112.
- [930] Zak TA, Buncic R. Primary hereditary oxalosis retinopathy. *Arch Ophthalmol* 1983;101:78–80.
- [931] Small KW, Letson R, Scheinman J. Ocular findings in primary hyperoxaluria. *Arch Ophthalmol* 1990;108:89–93.
- [932] Danpure CJ, Jennings PR. Peroxisomal alanine:glycolate aminotransferase deficiency in primary hyperoxyluria type I. *FEBS Lett* 1986;201:20–4.
- [933] Small KW. Enzyme deficiency for type I primary hyperoxaluria. *Arch Ophthalmol* 1992;110:13.
- [934] Small KW, Pollock S, Scheinman J. Optic atrophy in primary oxalosis. *Am J Ophthalmol* 1988;106:96–7.
- [935] Small KW, Scheinman J, Klintworth GK. A clinicopathological study of ocular involvement in primary hyperoxaluria type I. *Br J Ophthalmol* 1992;76:54–7.
- [936] Sakamoto T, Maeda K, Sueishi K, et al. Ocular histopathologic findings in a 46-year-old man with primary hyperoxaluria. *Arch Ophthalmol* 1991;109:384–7.
- [937] Albert DM, Bullock JD, Lahav M, et al. Flecked retina secondary to oxalate crystals from methoxyflurane anesthesia: clinical and experimental studies. *Trans Am Acad Ophthalmol Otolaryngol* 1975;79:OP817–OP826.
- [938] Bullock JD, Albert DM. Flecked retina; appearance secondary to oxalate crystals from methoxyflurane anesthesia. *Arch Ophthalmol* 1975;93:26–31.
- [939] Carmel R, Bedros AA, Mace JW, et al. Congenital methylmalonic aciduria-homocystinuria with megaloblastic anemia: observations on response to hydroxocobalamin and on the effect of homocysteine and methionine on the deoxyuridine suppression test. *Blood* 1980;55:570–9.
- [940] Cogan DG, Schulman J, Porter RJ, et al. Epileptiform ocular movements with methylmalonic aciduria and homocystinuria. *Am J Ophthalmol* 1980;90:251–3.
- [941] Fenton WA, Rosenberg LE. Inherited disorders of cobalamin transport and metabolism. In: Scriver CR, Beaudet AC, Sly WS, editors. *The metabolic basis of inherited disease*, 6th ed. New York: McGraw-Hill; 1989. p. 2065.
- [942] Mitchell GA, Watkins D, Melançon SB, et al. Clinical heterogeneity in cobalamin C variant of combined homocystinuria and methylmalonic aciduria. *J Pediatr* 1986;108:410–5.
- [943] Robb RM, Downton SB, Fulton AB, et al. Retinal degeneration in vitamin B12 disorder associated with methylmalonic aciduria and sulfur amino acid abnormalities. *Am J Ophthalmol* 1984;97:691–6.
- [944] Traboulsi EI, Silva JC, Geraghty MT, et al. Ocular histopathologic characteristics of cobalamin C type vitamin B12 defect with methylmalonic aciduria and homocystinuria. *Am J Ophthalmol* 1992;113:269–80.
- [945] Gerth C, Morel CF, Feigenbaum A, et al. Ocular phenotype in patients with methylmalonic aciduria and homocystinuria, cobalamin C type. *J AAPOS* 2008;12:591–6.
- [946] Ricci D, Pane M, Deodato F, et al. Assessment of visual function in children with methylmalonic aciduria and homocystinuria. *Neuropediatrics* 2005;36:181–5.
- [947] Tsina EK, Marsden DL, Hansen RM, et al. Maculopathy and retinal degeneration in cobalamin C methylmalonic aciduria and homocystinuria. *Arch Ophthalmol* 2005;123:1143–6.
- [948] Francis PJ, Calver DM, Barnfield P, et al. An infant with methylmalonic aciduria and homocystinuria (cblC) presenting

- with retinal haemorrhages and subdural haematoma mimicking non-accidental injury. *Eur J Pediatr* 2004;163:420–1.
- [949] Cogan DG, Rodrigues M, Chu FC, et al. Ocular abnormalities in abetalipoproteinemia; a clinicopathologic correlation. *Ophthalmology* 1984;91:991–8.
- [950] Berger AS, Nychsen L, Rosenblum JL. Retinopathy in human vitamin E deficiency. *Am J Ophthalmol* 1991;111:774–5.
- [951] Adams NA, Awadein A, Toma HS. The retinal ciliopathies. *Ophthalmic Genet* 2007;28:113–25.
- [952] Stiggebout W. The Bardet–Biedl syndrome, including Hutchinson–Laurence–Moon syndrome. In: Vinkin PJ, Bruyn GW, editors. *Handbook of clinical neurology*, vol. 13. Neuroretinal degenerations. New York: American Elsevier; 1972. p. 380–412.
- [953] Jacobson SG, Borruat F-X, Apáthy PP. Patterns of rod and cone dysfunction in Bardet–Biedl syndrome. *Am J Ophthalmol* 1990;109:676–88.
- [954] Gershoni-Baruch R, Nachlieli T, Leibo R. Cystic kidney dysplasia and polydactyly in 3 sibs with Bardet–Biedl syndrome. *Am J Med Genet* 1992;44:269–73.
- [955] Fulton AB, Hansen RM, Glynn RJ. Natural course of visual functions in the Bardet–Biedl syndrome. *Arch Ophthalmol* 1993;111:1500–6.
- [956] Fishman G. Hereditary retinal and choroidal diseases: electroretinogram and electro-oculogram findings. In: Peyman GA, Sanders DR, Goldberg MF, editors. *Principles and practice of ophthalmology*. Philadelphia: WB Saunders; 1980. p. 876.
- [957] De Marchi S, Cecchin E, Bartoli E. Bardet–Biedl syndrome and cystinuria. *Ren Fail* 1992;14:587–90.
- [958] Campo RV, Aaberg TM. Ocular and systemic manifestations of the Bardet–Biedl syndrome. *Am J Ophthalmol* 1982;94:750–6.
- [959] Biedl A. Ein Geschwisterpaar mit adiposo-genitaler Dystrophie. *Dtsch Med Wochenschr* 1922;48:1630.
- [960] Bardet G. Sur un syndrome d'obésité congénitale avec polydactylie et rétinite pigmentaire. (Contribution à l'étude des formes cliniques de l'obésité hypophysaire). Thesis. Paris, 1920.
- [961] Ackerman J, Brody PE, Kanarek I, et al. Macular wrinkling and atypical retinitis pigmentosa in Laurence–Moon–Biedl–Bardet syndrome. *Ann Ophthalmol* 1980;12:632–4.
- [962] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 196.
- [963] Sachdev MS, Verma L, Garg SP. Bilateral disc oedema in retinitis pigmentosa – an unusual sign. *Jpn J Ophthalmol* 1987;31:621–6.
- [964] Escallon F, Traboulsi EI, Infante R. A family with the Bardet–Biedl syndrome and diabetes mellitus. *Arch Ophthalmol* 1989;107:855–7.
- [965] Laurence JZ, Moon RC. Four cases of "retinitis pigmentosa," occurring in the same family, and accompanied by general imperfections of development. *Ophthalmic Rev* 1866;2:32–41.
- [966] Rizzo III JF, Berson EL, Lessell S. Retinal and neurologic findings in the Laurence–Moon–Bardet–Biedl phenotype. *Ophthalmology* 1986;93:1452–6.
- [967] Diaz LL, Grech KF, Prados MD. Hypothalamic hamartoma associated with Lawrence–Moon–Biedl syndrome; case report and review of the literature. *Pediatr Neurosurg* 1991-1992;30–3. 17 1991-1992:30–3.
- [968] Alström CH, Hallgren B, Nilsson LB, et al. Retinal degeneration combined with obesity, diabetes mellitus and neurogenous deafness; a specific syndrome (not hitherto described) distinct from the Laurence–Moon–Bardet–Biedl syndrome. A clinical, endocrinological and genetic examination based on a large pedigree. *Acta Psychiatr Neurol Scand Suppl* 1959;129:1–35.
- [969] Charles SJ, Moore AT, Yates JR. Alström's syndrome: further evidence of autosomal-recessive inheritance and endocrinological dysfunction. *J Med Genet* 1990;27:590–2.
- [970] Connolly MB, Jan JE, Couch RM. Hepatic dysfunction in Alström disease. *Am J Med Genet* 1991;40:421–4.
- [971] Johnson J. Diabetes, neurogenous deafness, and retinal degeneration. *Br Med J* 1961;2:646.
- [972] Sebag J, Albert DM, Craft JL. The Alström syndrome: ophthalmic histopathology and retinal ultrastructure. *Br J Ophthalmol* 1984;68:494–501.
- [973] Tremblay F, LaRoche RG, Shea SE, et al. Longitudinal study of the early electroretinographic changes in Alström's syndrome. *Am J Ophthalmol* 1993;115:657–65.
- [974] Boor R, Herwig J, Schrezenmeir J. Familial insulin resistant diabetes associated with acanthosis nigricans, polycystic ovaries, hypogonadism, pigmentary retinopathy, labyrinthine deafness, and mental retardation. *Am J Med Genet* 1993;45:649–53.
- [975] Millay RH, Weleber RG, Heckenlively JR. Ophthalmologic and systemic manifestations of Alström's disease. *Am J Ophthalmol* 1986;102:482–90.
- [976] Malm E, Ponjavic V, Nishina PM, et al. Full-field electroretinography and marked variability in clinical phenotype of Alstrom syndrome. *Arch Ophthalmol* 2008;126:51–7.
- [977] Russell-Eggitt IM, Clayton PT, Coffey R, et al. Alstrom syndrome. Report of 22 cases and literature review. *Ophthalmology* 1998;105:1274–80.
- [978] Abraham FA, Yanko L, Licht A, et al. Electrophysiologic study of the visual system in familial juvenile nephronophthisis and tapetoretinal dystrophy. *Am J Ophthalmol* 1974;78:591–7.
- [979] Avasthi PS, Erickson DG, Gardner KD. Hereditary renal-retinal dysplasia and the medullary cystic disease–nephronophthisis complex. *Ann Intern Med* 1976;84:157–61.
- [980] Lauweryns B, Leys A, Van Haesendonck E, et al. Senior–Løken syndrome with marbleized fundus and unusual skeletal abnormalities; a case report. *Graefes Arch Clin Exp Ophthalmol* 1993;231:242–8.
- [981] Løken AC, Hanssen O, Halvorsen S, et al. Hereditary renal dysplasia and blindness. *Acta Paediatr* 1961;50:177–84.
- [982] Meier DA, Hess JW. Familial nephropathy with retinitis pigmentosa; a new oculorenal syndrome in adults. *Am J Med* 1965;39:58–69.
- [983] Polak BCP, Hogewind BL, Van Lith FHM. Tapetoretinal degeneration associated with recessively inherited medullary cystic disease. *Am J Ophthalmol* 1977;84:645–51.
- [984] Proesmans W, van Damme B, Macken J. Nephronophthisis and tapetoretinal degeneration associated with liver fibrosis. *Clin Nephrol* 1975;3:160–4.
- [985] Schuman JS, Lieberman KV, Friedman AH. Senior–Løken syndrome (familial renal-retinal dystrophy) and Coats' disease. *Am J Ophthalmol* 1985;100:822–7.
- [986] Senior B, Friedmann AI, Braudo JL. Juvenile familial nephropathy with tapetoretinal degeneration; a new oculorenal dystrophy. *Am J Ophthalmol* 1961;52:625–33.
- [987] Bard LA, Bard PA, Owens GW, et al. Retinal involvement in thoracic-pelvic-phalangeal syndrome. *Arch Ophthalmol* 1978;96:278–81.
- [988] Wilson DJ, Weleber RG, Beals RK. Retinal dystrophy in Jeune's syndrome. *Arch Ophthalmol* 1987;105:651–7.
- [989] Allen Jr AW, Moon JB, Hovland KR, et al. Ocular findings in thoracic-pelvic-phalangeal dystrophy. *Arch Ophthalmol* 1979;97:489–92.
- [990] Alagille D, Odièvre M, Gautier M, et al. Hepatic ductular hypoplasia associated with characteristic facies, vertebral malformations, retarded physical, mental and sexual development, and cardiac murmur. *J Pediatr* 1975;86:63–71.
- [991] Alvarez F, Landrieu P, Laget P. Nervous and ocular disorders



- in children with cholestasis and vitamin A and E deficiencies. *Hepatology* 1983;3:410-4.
- [992] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 230.
- [993] Johnson BL. Ocular pathologic features of arteriohepatic dysplasia (Alagille's syndrome). *Am J Ophthalmol* 1990;110:504-12.
- [994] Raymond WR, Kearney JJ, Parmley VC. Ocular findings in arteriohepatic dysplasia (Alagille's syndrome). *Arch Ophthalmol* 1989;107:1077.
- [995] Riely CA, Cotlier E, Jensen PS, et al. Arteriohepatic dysplasia: a benign syndrome of intrahepatic cholestasis with multiple organ involvement. *Ann Intern Med* 1979;91:520-7.
- [996] Romanchuk KG, Judisch GF, LaBrecque DR. Ocular findings in arteriohepatic dysplasia (Alagille's syndrome). *Can J Ophthalmol* 1981;16:94-9.
- [997] Shulman SA, Hyams JS, Gunta R. Arteriohepatic dysplasia (Alagille syndrome): extreme variability among affected family members. *Am J Med Genet* 1984;19:325-32.
- [998] Sokol RJ, Heubi JE, Balistreri WF. Intrahepatic "cholestasis facies": is it specific for Alagille syndrome? *J Pediatr* 1983;103:205-8.
- [999] Amon M, Menapace R, Kirnbauer R. Ocular symptomatology in familial hypomelanosis Ito; incontinentia pigmenti achromians. *Ophthalmologica* 1990;200:1-6.
- [1000] Grazia R, Tullini A, Rossi PG. Hypomelanosis of Ito with trisomy 18 mosaicism. *Am J Med Genet* 1993;45:120-1.
- [1001] Ito M. Incontinentia pigmenti achromians: a singular case of nevus depigmentosus systematicus bilateralis. *Tohoku J Exp Med* 1952;55(Suppl. I):57-9.
- [1002] Ross DL, Liwnicz BH, Chun RW, et al. Hypomelanosis of Ito (incontinentia pigmenti achromians) - a clinicopathologic study: macrocephaly and gray matter heterotopias. *Neurology* 1982;32:1013-6.
- [1003] Rott H-D, Lang GE, Huk W, et al. Hypomelanosis of Ito (incontinentia pigmenti achromians): Ophthalmological evidence for somatic mosaicism. *Ophthalmic Paediatr Genet* 1990;11:273-9.
- [1004] Steichen-Gersdorf E, Trawöger R, Duba HC. Hypomelanosis of Ito in a girl with plexus papilloma and translocation (X;17). *Hum Genet* 1993;90:611-3.
- [1005] Takematsu H, Sato S, Igarashi M, et al. Incontinentia pigmenti achromians (Ito). *Arch Dermatol* 1983;119:391-5.
- [1006] Turleau C, Taillard F, Doussau de Bazignan M. Hypomelanosis of Ito (incontinentia pigmenti achromians) and mosaicism for a microdeletion of 15q1. *Hum Genet* 1986;74:185-7.
- [1007] Weaver Jr RG, Martin T, Zanolli MD. The ocular changes of incontinentia pigmenti achromians (hypomelanosis of Ito). *J Pediatr Ophthalmol Strabismus* 1991;28:160-3.
- [1008] Sybert VP. Hypomelanosis of Ito: a description, not a diagnosis. *J Invest Dermatol* 1994;103(Suppl):141S-3S.
- [1009] Weaver Jr RG, Martin T, Zanolli MD. The ocular changes of incontinentia pigmenti achromians (hypomelanosis of Ito). *J Pediatr Ophthalmol Strabismus* 1991;28:160-3.
- [1010] Flaherty MP, Padilla CD, Silience DO. Axenfeld anomaly in association with hypomelanosis of Ito. *Ophthalmic Paediatr Genet* 1991;12:23-30.
- [1011] Rott HD, Lang GE, Huk W, et al. Hypomelanosis of Ito (incontinentia pigmenti achromians). Ophthalmological evidence for somatic mosaicism. *Ophthalmic Paediatr Genet* 1990;11:273-9.
- [1012] Amon M, Menapace R, Kirnbauer R. Ocular symptomatology in familial hypomelanosis Ito. Incontinentia pigmenti achromians. *Ophthalmologica* 1990;200:1-6.
- [1013] Ikeda T, Sato K, Miyaura T. Fundus and fluorescein documentation of hypomelanosis of Ito. *Arch Ophthalmol* 1999 Jul;117(7):976-7.
- [1014] Heimler A, Fox JE, Hershey JE, et al. Sensorineural hearing loss, enamel hypoplasia, and nail abnormalities in sibs. *Am J Med Genet* 1991;39:192-5.
- [1015] Ong KR, Visram S, McKaig S, et al. Sensorineural deafness, enamel abnormalities and nail abnormalities: a case report of Heimler syndrome in identical twin girls. *Eur J Med Genet* 2006;49:187-93.
- [1016] Cockayne EA. Dwarfism with retinal atrophy and deafness. *Arch Dis Child* 1936;11:1-8.
- [1017] Cockayne EA. Dwarfism with retinal atrophy and deafness. *Arch Dis Child* 1946;21:52-4.
- [1018] Levin PS, Green WR, Victor DI, et al. Histopathology of the eye in Cockayne's syndrome. *Arch Ophthalmol* 1983;101:1093-7.
- [1019] Pearce WG. Ocular and genetic features of Cockayne's syndrome. *Can J Ophthalmol* 1972;7:435-44.
- [1020] Hamdani M, El Kettani A, Rais L, et al. [Cockayne's syndrome with unusual retinal involvement (report of one family).] *J Fr Ophthalmol* 2000;23:52-6.
- [1021] Manning FJ, Bruce AM, Berson EL. Electroretinograms in microcephaly with chorioretinal degeneration. *Am J Ophthalmol* 1990;109:457-63.
- [1022] Hoyt CS, Billson FA. Visual loss in osteopetrosis. *Am J Dis Child* 1979;133:955-8.
- [1023] Keith CG. Retinal atrophy in osteopetrosis. *Arch Ophthalmol* 1968;79:234-41.
- [1024] Ruben JB, Morris RJ, Judisch GF. Chorioretinal degeneration in infantile malignant osteopetrosis. *Am J Ophthalmol* 1990;110:1-5.
- [1025] Driessen GJ, Gerritsen EJ, Fischer A, et al. Long-term outcome of haematopoietic stem cell transplantation in autosomal-recessive osteopetrosis: an EBMT report. *Bone Marrow Transplant* 2003;32:657-63.
- [1026] Kawamura N, Tabata H, Sun-Wada GH, et al. Optic nerve compression and retinal degeneration in Tcirg1 mutant mice lacking the vacuolar-type H-ATPase a3 subunit. *PLoS One* 2010;58.
- [1027] Cohen SMZ, Brown III FR, Martyn L. Ocular histopathologic and biochemical studies of the cerebrohepatorenal syndrome (Zellweger's syndrome) and its relationship to neonatal adrenoleukodystrophy. *Am J Ophthalmol* 1983;96:488-501.
- [1028] Garner A, Fielder AR, Primavesi R, et al. Tapetoretinal degeneration in the cerebro-hepato-renal (Zellweger's) syndrome. *Br J Ophthalmol* 1982;66:422-31.
- [1029] Stanescu B, Dralands L. Cerebro-hepato-renal (Zellweger's) syndrome; ocular involvement. *Arch Ophthalmol* 1972;87:590-2.
- [1030] Cohen SMZ, Green WR, de la Cruz ZC, et al. Ocular histopathologic studies in neonatal and childhood adrenoleukodystrophy. *Am J Ophthalmol* 1983;95:82-96.
- [1031] Glasgow BJ, Brown HH, Hannah JB, et al. Ocular pathologic findings in neonatal adrenoleukodystrophy. *Ophthalmology* 1987;94:1054-60.
- [1032] Traboulsi EI, Maumenee IH. Ophthalmologic manifestations of X-linked childhood adrenoleukodystrophy. *Ophthalmology* 1987;94:47-52.
- [1033] Rosen NL, Lechtenberg R, Wisniewski K. Adrenoleukomyeoneuropathy with onset in early childhood. *Ann Neurol* 1985;17:311-2.
- [1034] Claridge KG, Gibberd FB, Sidey MC. The presentation and ophthalmic aspects of Refsum disease in a series of 23 patients. *Eye* 1992;6:371-5.

- [1035] Refsum S. Heredopathia atactica polyneuritiformis; a familial syndrome not hitherto described. A contribution to the clinical study of the hereditary diseases of the nervous system. *Acta Psychiatr Neurol Suppl* 1946;38:1–303.
- [1036] Refsum S. Heredopathia atactica polyneuritiformis phytanic acid storage disease (Refsum's disease) with particular reference to ophthalmological disturbances. *Metab Ophthalmol* 1977;1:73–9.
- [1037] Steinberg D. Refsum disease. In: Scriver CR, Beaudet AL, Sly WS, editors. *The metabolic basis of inherited disease*, 6th ed. New York: McGraw-Hill; 1989. p. 1533–50.
- [1038] Weleber RG, Tongue AC, Kennaway NG. Ophthalmic manifestations of infantile phytanic acid storage disease. *Arch Ophthalmol* 1984;102:1317–21.
- [1039] Jansen GA, Hogenhout EM, Ferdinandusse S, et al. Human phytanoyl-CoA hydroxylase: resolution of the gene structure and the molecular basis of Refsum's disease. *Hum Mol Genet* 2000;9:1195–200.
- [1040] Jansen GA, Wanders RJ, Watkins PA, et al. Phytanoyl-coenzyme A hydroxylase deficiency – the enzyme defect in Refsum's disease. *N Engl J Med* 1997;337:133–4.
- [1041] Hansen E, Bachen NI, Flage T. Refsum's disease; eye manifestations in a patient treated with low phytol low phytanic acid diet. *Acta Ophthalmol* 1979;57:899–913.
- [1042] Marroun I, Delevaux I, Andre M, et al. Refsum's disease with severe neuropathy: efficiency of the diet and plasmapheresis. *Rev Med Interne* 2005;26:523–5.
- [1043] Lou JS, Snyder R, Griggs RC. Refsum's disease: long term treatment preserves sensory nerve action potentials and motor function. *J Neurol Neurosurg Psychiatry* 1997;62:671–2.
- [1044] Millaire A, Warembourg A, Leys D, et al. Refsum's disease. Apropos of 2 cases disclosed by myocardiopathy. *Ann Cardiol Angeiol (Paris)* 1990;39:173–8.
- [1045] Hungerbuhler JP, Meier C, Rousselle L, et al. Refsum's disease: management by diet and plasmapheresis. *Eur Neurol* 1985;24:153–9.
- [1046] Matsuzaka T, Sakuragawa N, Nakayama H. Cerebro-oculo-hepato-renal syndrome (Arima's syndrome): a distinct clinicopathological entity. *J Child Neurol* 1986;1:338–46.
- [1047] Lambert SR, Kriss A, Gresty M. Joubert syndrome. *Arch Ophthalmol* 1989;107:709–13.
- [1048] Cant JS. Ectodermal dysplasia. *J Pediatr Ophthalmol* 1967;4:13–17.
- [1049] Corby DG, Lowe Jr RS, Haskins RC, et al. Trichomegaly, pigmentary degeneration of the retina, and growth retardation; a new syndrome originating in utero. *Am J Dis Child* 1971;121:344–5.
- [1050] Judisch GF, Lowry RB, Hanson JW, et al. Chorioretinopathy and pituitary dysfunction; the CPD syndrome. *Arch Ophthalmol* 1981;99:253–6.
- [1051] Oliver GL, McFarlane DC. Congenital trichomegaly with associated pigmentary degeneration of the retina, dwarfism, and mental retardation. *Arch Ophthalmol* 1965;74:169–71.
- [1052] Gass JDM. The syndrome of keratoconjunctivitis, superficial moniliasis, idiopathic hypoparathyroidism and Addison's disease. *Am J Ophthalmol* 1962;54:660–74.
- [1053] McMahon F, Cookson DU, Kabler JD, et al. Idiopathic hypoparathyroidism and idiopathic adrenal cortical insufficiency occurring with cystic fibrosis of the pancreas. *Ann Intern Med* 1959;51:371.
- [1054] Aaltonen J, Bjorses P, Sandkulijl L. An autosomal locus causing autoimmune disease: autoimmune polyglandular disease type I assigned to chromosome 21. *Nature Genetics* 1994;8:83–7.
- [1055] Wood LW, Jampol LM, Daily MJ. Retinal and optic nerve manifestations of autoimmune polyendocrinopathy-candidiasis-ectodermal dystrophy. *Arch Ophthalmol* 1991;109:1065.
- [1056] Carpenter S, Schumacher GA. Familial infantile cerebellar atrophy associated with retinal degeneration. *Arch Neurol* 1966;14:82–94.
- [1057] de Jong PTVM, de Jong JGY, de Jong-Ten Doeschate JMM, et al. Olivopontocerebellar atrophy with visual disturbances; an ophthalmologic investigation into four generations. *Ophthalmology* 1980;87:793–804.
- [1058] Duinkerke-Eerola KU, Cruysberg JRM, Deutman AF. Atrophic maculopathy associated with hereditary ataxia. *Am J Ophthalmol* 1980;90:597–603.
- [1059] Harding AE. *The hereditary ataxias and related disorders*. New York: Churchill Livingstone; 1984. p. 129.
- [1060] Havener WH. Cerebellar-macular abiotrophy. *Arch Ophthalmol* 1951;45:40–3.
- [1061] Konigsmark BW, Weiner LP. The olivopontocerebellar atrophies; a review. *Medicine* 1970;49:227–41.
- [1062] Ryan Jr SJ, Knox DL, Green WR, et al. Olivopontocerebellar degeneration; clinicopathologic correlation of the associated retinopathy. *Arch Ophthalmol* 1975;93:169–72.
- [1063] Ryan SJ, Smith RE. Retinopathy associated with hereditary olivopontocerebellar degeneration. *Am J Ophthalmol* 1971;71:838–43.
- [1064] Weiner LP, Konigsmark BW, Stoll Jr J, et al. Hereditary olivopontocerebellar atrophy with retinal degeneration; report of a family through six generations. *Arch Neurol* 1967;16:364–76.
- [1065] Woodworth JA, Beckett RS, Netsky MG. A composite of hereditary ataxias; a familial disorder with features of olivopontocerebellar atrophy, Leber's optic atrophy, and Friedreich's ataxia. *Arch Intern Med* 1959;104:594–606.
- [1066] Drack AV, Traboulsi EI, Maumenee IH. Progression of retinopathy in olivopontocerebellar atrophy with retinal degeneration. *Arch Ophthalmol* 1992;110:712–3.
- [1067] To KW, Adamian M, Jakobiec FA, et al. Olivopontocerebellar atrophy with retinal degeneration; an electroretinographic and histopathologic investigation. *Ophthalmology* 1993;100:15–23.
- [1068] Traboulsi EI, Maumenee IH, Green WR. Olivopontocerebellar atrophy with retinal degeneration; a clinical and ocular histopathologic study. *Arch Ophthalmol* 1988;106:801–6.
- [1069] Hugosson T, Granse L, Ponjavic V, et al. Macular dysfunction and morphology in spinocerebellar ataxia type 7 (SCA 7). *Ophthalmic Genet* 2009;30:1–6.
- [1070] Tsai HF, Liu CS, Leu TM, et al. Analysis of trinucleotide repeats in different SCA loci in spinocerebellar ataxia patients and in normal population of Taiwan. *Acta Neurol Scand* 2004;109:355–60.
- [1071] Modi G, Modi M, Martinus I, et al. The clinical and genetic characteristics of spinocerebellar ataxia type 7 (SCA 7) in three Black South African families. *Acta Neurol Scand* 2000;101:177–82.
- [1072] Puertas-Bordallo D, De-Domingo-Baron B, Lozano-Vazquez M, et al. Alstrom Hallgren syndrome. *Arch Soc Esp Oftalmol* 2007;82:649–52.
- [1073] Hallervorden J, Spatz H. Eigenartige Erkrankung im extrapyramidalen System mit besonderer Beteiligung des Globus pallidus und der Substantia nigra: ein Beitrag zu den Beziehungen zwischen diesen beiden zentren. *Z Ges Neurol Psychiatr* 1922;79:254–302.
- [1074] Luckenbach MW, Green WR, Miller NR. Ocular clinicopathologic correlation of Hallervorden–Spatz syndrome with acanthocytosis and pigmentary retinopathy. *Am J Ophthalmol* 1983;95:369–82.
- [1075] Newell FW, Johnson II RO, Huttenlocher PR. Pigmentary degeneration of the retina in the Hallervorden–Spatz syndrome.

- Am J Ophthalmol 1979;88:467-71.
- [1076] Roth AM, Hepler RS, Mukoyama M. Pigmentary retinal dystrophy in Hallervorden-Spatz disease: Clinicopathological report of a case. *Surv Ophthalmol* 1971;16:24-35.
- [1077] Van Kirk MP, Larsen PD, O'Conner PS. New computed tomography scan finding in Hallervorden-Spatz syndrome. *J Clin Neuro-Ophthalmol* 1986;6:86-90.
- [1078] Egan RA, Weleber RG, Hogarth P, et al. Neuro-ophthalmologic and electroretinographic findings in pantothenate kinase-associated neurodegeneration (formerly Hallervorden-Spatz syndrome). *Am J Ophthalmol* 2005;140:267-74.
- [1079] Higgins JJ, Patterson MC, Papadopoulos NM. Hypoprebetalipoproteinemia acanthocytosis, retinitis pigmentosa, and pallidal degeneration (HARP syndrome). *Neurology* 1992;42:194-8.
- [1080] Angelini L, Nardocci N, Rumi V. Hallervorden-Spatz disease; clinical and MRI study of 11 cases diagnosed in life. *J Neurol* 1992;239:417-25.
- [1081] Tripathi RC, Tripathi BJ, Bauserman SC, et al. Clinicopathologic correlation and pathogenesis of ocular and central nervous system manifestations in Hallervorden-Spatz syndrome. *Acta Neuropathol* 1992;83:113-9.
- [1082] Seo JH, Song SK, Lee PH. A novel PANK2 mutation in a patient with atypical pantothenate-kinase-associated neurodegeneration presenting with adult-onset parkinsonism. *J Clin Neurol* 2009;5:192-4.
- [1083] Cangul H, Ozdemir O, Yakut T, et al. Pantothenate kinase-associated neurodegeneration (PKAN): molecular confirmation of a Turkish patient with a rare frameshift mutation in the coding region of the PANK2 gene. *Turk J Pediatr* 2009;51:161-5.
- [1084] Bozi M, Matarin M, Theocharis I, et al. A patient with pantothenate kinase-associated neurodegeneration and supranuclear gaze palsy. *Clin Neurol Neurosurg* 2009;111:688-90.
- [1085] Westaway SK, Robinson SW, Hayflick SJ, et al. Gene symbol: PANK2. Disease: pantothenate kinase-associated neurodegeneration (PKAN). *Hum Genet* 2006;119:679.
- [1086] Koyama M, Yagishita A. Pantothenate kinase-associated neurodegeneration with increased lentiform nuclei cerebral blood flow. *AJNR Am J Neuroradiol* 2006;27:212-3.
- [1087] Antonini A, Goldwurm S, Benti R, et al. Genetic, clinical, and imaging characterization of one patient with late-onset, slowly progressive, pantothenate kinase-associated neurodegeneration. *Mov Disord* 2006;21:417-8.
- [1088] Doi H, Koyano S, Miyatake S, et al. Siblings with the adult-onset slowly progressive type of pantothenate kinase-associated neurodegeneration and a novel mutation, Ile346Ser, in PANK2: clinical features and (99m)Tc-ECD brain perfusion SPECT findings. *J Neurol Sci* 2010 Mar 15;290:172-6.
- [1089] Pavlakis SG, Phillips PCD, Mauro S. Mitochondrial myopathy encephalopathy, lactic acidosis, and strokelike episodes: a distinctive clinical syndrome. *Ann Neurol* 1984;16:481-8.
- [1090] Fukuhara N. Myoclonus epilepsy and mitochondrial myopathy. In: Cerri C, Scarlato G, editors. *Mitochondrial pathology in muscle diseases; proceedings of the satellite symposium of the Vth International Congress on Neuromuscular Diseases, Sanremo, Italy, September 19, 1982*. Padua: Piccin Editore; 1983. p. 87.
- [1091] Barboni P, Savini G, Plazzi G, et al. Ocular findings in mitochondrial neurogastrointestinal encephalomyopathy: a case report. *Graefes Arch Clin Exp Ophthalmol* 2004;242:878-80.
- [1092] Latkany P, Ciulla TA, Cacchillo PF, et al. Mitochondrial maculopathy: geographic atrophy of the macula in the MELAS associated A to G 3243 mitochondrial DNA point mutation. *Am J Ophthalmol* 1999;128:112-4.
- [1093] van der Kooij AJ, van Langen IM, Aronica E, et al. Extension of the clinical spectrum of Danon disease. *Neurology* 2008;70:1358-9.
- [1094] Schorderet DF, Cottet S, Lohrinus JA, et al. Retinopathy in Danon disease. *Arch Ophthalmol* 2007;125:231-6.
- [1095] Prall FR, Drack A, Taylor M, et al. Ophthalmic manifestations of Danon disease. *Ophthalmology* 2006;113:1010-3.
- [1096] Balmer C, Ballhausen D, Bosshard NU, et al. Familial X-linked cardiomyopathy (Danon disease): diagnostic confirmation by mutation analysis of the LAMP2 gene. *Eur J Pediatr* 2005;164:509-14.
- [1097] Chang TS, Johns DR, Walker D. Ocular clinicopathologic study of the mitochondrial encephalomyopathy overlap syndromes. *Arch Ophthalmol* 1993;111:1254-62.
- [1098] Ortiz RG, Newman NJ, Shoffner JM. Variable retinal and neurologic manifestations in patients harboring the mitochondrial DNA 8993 mutation. *Arch Ophthalmol* 1993;111:1525-30.
- [1099] Rummelt V, Folberg R, Ionasescu V. Ocular pathology of MELAS syndrome with mitochondrial DNA nucleotide 3243 point mutation. *Ophthalmology* 1993;100:1757-66.
- [1100] Ota Y, Miyake Y, Awaya S. Early retinal involvement in mitochondrial myopathy with mitochondrial DNA deletion. *Retina* 1994;14:270-6.
- [1101] Kearns TP, Sayre GP. Retinitis pigmentosa, external ophthalmoplegia, and complete heart block. *Arch Ophthalmol* 1958;60:280-9.
- [1102] Bachynski BN, Flynn JT, Rodrigues MM. Hyperglycemic acidotic coma and death in Kearns-Sayre syndrome. *Ophthalmology* 1986;93:391-6.
- [1103] Bosche J, Hammerstein W, Neuen-Jacob E, et al. Variation in retinal changes and muscle pathology in mitochondrial pathologies. *Graefes Arch Clin Exp Ophthalmol* 1989;27:578-83.
- [1104] Daroff RB, Solitare GB, Pincus JH, et al. Spongiform encephalopathy with chronic progressive external ophthalmoplegia; central ophthalmoplegia mimicking ocular myopathy. *Neurology* 1966;16:161-9.
- [1105] Gross-Jendroska M, Schatz H, McDonald HR, et al. Kearns-Sayre syndrome: a case report and review. *Eur J Ophthalmol* 1992;2:15-20.
- [1106] Kearns TP. External ophthalmoplegia, pigmentary degeneration of the retina, and cardiomyopathy: a newly recognized syndrome. *Trans Am Ophthalmol Soc* 1965;63:559-625.
- [1107] Leveille AS, Newell FW. Autosomal-dominant Kearns-Sayre syndrome. *Ophthalmology* 1980;87:99-108.
- [1108] Zeviani M, Moraes CT, DiMauro S. Deletions of mitochondrial DNA in Kearns-Sayre syndrome. *Neurology* 1988;38:1339-46.
- [1109] Herzberg NH, van Schooneveld MJ, Bleeker-Wagemakers EM. Kearns-Sayre syndrome with a phenocopy of choroideremia instead of pigmentary retinopathy. *Neurology* 1993;43:218-21.
- [1110] Ascaso FJ, Lopez-Gallardo E, Del Prado E, et al. Macular lesion resembling adult-onset vitelliform macular dystrophy in Kearns-Sayre syndrome with multiple mtDNA deletions. *Clin Experiment Ophthalmol* 2010;38:812-6.
- [1111] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 198.
- [1112] McKechnie NM, King M, Lee WR. Retinal pathology in the Kearns-Sayre syndrome. *Br J Ophthalmol* 1985;69:63-75.
- [1113] Newell FW, Polascik MA. Mitochondrial disease and retinal pigmentary degeneration. In: Shimizu K, Oosterhuis J, editors. *XXIII Concilium Ophthalmologicum, Kyoto 1978*, Acta. Amsterdam: Excerpta Medica; International Congress series No. 450; 1979. p. 615-17.

- [1114] Eagle Jr RC, Hedges TR, Yanoff N. The atypical pigmentary retinopathy of Kearns–Sayre syndrome; a light and electron microscopic study. *Ophthalmology* 1982;89:1433–40.
- [1115] Treft RL, Sanborn GE, Carey J. Dominant optic atrophy, deafness, ptosis, ophthalmoplegia, dystaxia, and myopathy; a new syndrome. *Ophthalmology* 1984;91:908–15.
- [1116] Maron BJ, Roberts WC, Arad M, et al. Clinical outcome and phenotypic expression in LAMP2 cardiomyopathy. *JAMA* 2009;301:1253–9.
- [1117] Nadeau A, Therrien C, Karpati G, et al. Danon disease due to a novel splice mutation in the LAMP2 gene. *Muscle Nerve* 2008 Mar;37(3):338–42.
- [1118] Bassen FA, Kornzweig AL. Malformation of the erythrocytes in a case of atypical retinitis pigmentosa. *Blood* 1950;5:381–7.
- [1119] Berson EL. Nutrition and retinal degenerations; vitamin A, taurine, ornithine, and phytanic acid. *Retina* 1982;2:236–55.
- [1120] Bishara S, Merin S, Cooper M. Combined vitamin A and E therapy prevents retinal electrophysiological deterioration in abetalipoproteinaemia. *Br J Ophthalmol* 1982;66:767–70.
- [1121] Gouras P, Carr RE, Gunkel RD. Retinitis pigmentosa in abetalipoproteinemia: effects of vitamin A. *Invest Ophthalmol* 1971;10:784–93.
- [1122] Kornzweig AL. Bassen–Kornzweig syndrome – present status. *Metab Ophthalmol* 1976;1:51–3.
- [1123] Sperling MA, Hiles DA, Kennerdell JS. Electroretinographic responses following vitamin A therapy in a-beta-lipoproteinemia. *Am J Ophthalmol* 1972;73:342–51.
- [1124] Von Sallmann L, Gelderman AH, Laster L. Ocular histopathologic changes in a case of a-beta-lipoproteinemia (Bassen–Kornzweig syndrome). *Doc Ophthalmol* 1969;26:451–60.
- [1125] Yee RD, Cogan DG, Zee DS. Ophthalmoplegia and dissociated nystagmus in abetalipoproteinemia. *Arch Ophthalmol* 1976;94:571–5.
- [1126] Yee RD, Herbert PN, Bergsma DR, et al. Atypical retinitis pigmentosa in familial hypobetalipoproteinemia. *Am J Ophthalmol* 1976;82:64–71.
- [1127] Zamel R, Khan R, Pollex RL, et al. Abetalipoproteinemia: two case reports and literature review. *Orphanet J Rare Dis* 2008;3:19.
- [1128] Runge P, Müller DPR, McAllister J. Oral vitamin E supplements can prevent the retinopathy of abetalipoproteinaemia. *Br J Ophthalmol* 1986;70:166–73.
- [1129] Brosnahan DM, Kennedy SM, Converse CA. Pathology of hereditary retinal degeneration associated with hypobetalipoproteinemia. *Ophthalmology* 1994;101:38–45.
- [1130] Brady RO, Kanfer JN, Shapiro D. Metabolism of glucocerebrosides. II. Evidence of an enzymatic deficiency in Gaucher's disease. *Biochem Biophys Res Commun* 1965;18:221–5.
- [1131] Cogan DG, Kuwabara T. The sphingolipidoses and the eye. *Arch Ophthalmol* 1968;79:437–51.
- [1132] Brownstein S, Carpenter S, Polomeno RC, et al. Sandhoff's disease (GM2 gangliosidosis type 2); histopathology and ultrastructure of the eye. *Arch Ophthalmol* 1980;98:1089–97.
- [1133] Cogan DG, Kuwabara T, Kolodny E, et al. Gangliosidoses and the fetal retina. *Ophthalmology* 1984;91:508–12.
- [1134] Kivlin JD, Sanborn GE, Myers GG. The cherry-red spot in Tay–Sachs and other storage diseases. *Ann Neurol* 1985;17:356–60.
- [1135] Sandhoff K, Andreae U, Jatzkewitz H. Deficient hexosaminidase activity in an exceptional case of Tay–Sachs disease with additional storage of kidney globoside in visceral organs. *Life Sci* 1968;7:283–8.
- [1136] Tay W. Symmetrical changes in the region of the yellow spot in each eye of an infant. *Trans Ophthalmol Soc UK* 1881;1:55–7.
- [1137] Ghosh M, Hunter WS, Wedge C. Corneal changes in Tay–Sachs disease. *Can J Ophthalmol* 1990;25:190–2.
- [1138] Sorcinelli R, Sitzia A, Loi M. Cherry-red spot, optic atrophy and corneal cloudings in a patient suffering from GM1 gangliosidosis type I. *Metab Pediatr Syst Ophthalmol* 1987;10:62–3.
- [1139] Yun YM, Lee SN. A case report of Sandhoff disease. *Korean J Ophthalmol* 2005;19:68–72.
- [1140] Brownstein S, Carpenter S, Polomeno RC, et al. Sandhoff's disease (GM2 gangliosidosis type 2). Histopathology and ultrastructure of the eye. *Arch Ophthalmol* 1980;98:1089–97.
- [1141] Cogan DG, Chu FC, Barranger J, et al. Macula halo syndrome. *Trans Am Ophthalmol Soc* 1982;80:184–92.
- [1142] Cogan DG, Kuwabara T, Kolodny EH. A variant of Tay–Sachs disease. *Concilium Ophthalmologicum XXII, Paris, 1974. Acta* 1976;1:700–1.
- [1143] Harzer K, Ruprecht KW, Seuffer-Schulze DS, et al. Morbus Niemann–Pick Typ B – enzymatisch gesichert – mit unerwarteter retinaler Beteiligung. *Albrecht von Graefes Arch Klin Exp Ophthalmol* 1978;206:79–88.
- [1144] Libert J, Toussaint D, Guiselings R. Ocular findings in Niemann–Pick disease. *Am J Ophthalmol* 1975;80:991–1002.
- [1145] Niemann A. In unbekanntes Krankheitsbild. *Jahrb Kinderheilkd* 1914;79:1–10.
- [1146] Pick L. Über die lipoidzellige Splenohepatomegalie Typus Niemann–Pick als Stoffwechselekrankung. *Med Klin* 1927;23:1483–8.
- [1147] Walton DS, Robb RM, Crocker AC. Ocular manifestations of group A Niemann–Pick disease. *Am J Ophthalmol* 1978;85:174–80.
- [1148] Cogan DG, Federman DD. Retinal involvement with reticuloendotheliosis of unclassified type. *Arch Ophthalmol* 1964;71:489–91.
- [1149] Lipson MH, O'Donnell J, Callahan JW. Ocular involvement in Niemann–Pick disease type B. *J Pediatr* 1986;108:582–4.
- [1150] Matthews JD, Weiter JJ, Kolodny EH. Macular halos associated with Niemann–Pick type B disease. *Ophthalmology* 1986;93:933–7.
- [1151] McGovern MM, Wasserstein MP, Aron A, et al. Ocular manifestations of Niemann–Pick disease type B. *Ophthalmology* 2004;111:1424–7.
- [1152] Emery JM, Green WR, Huff DS, et al. Niemann–Pick disease (type C); histopathology and ultrastructure. *Am J Ophthalmol* 1972;74:1144–54.
- [1153] Palmer M, Green WR, Maumenee IH. Niemann–Pick disease-type c; ocular histopathologic and electron microscopic studies. *Arch Ophthalmol* 1985;103:817–22.
- [1154] Mihaylova V, Hantke J, Sinigerska I, et al. Highly variable neural involvement in sphingomyelinase-deficient Niemann–Pick disease caused by an ancestral Gypsy mutation. *Brain* 2007;130:1050–61.
- [1155] Emery JM, Green WR, Wyllie RG, et al. G<sub>M1</sub>-gangliosidosis; ocular and pathological manifestations. *Arch Ophthalmol* 1971;85:177–87.
- [1156] O'Brien JS, Stern MB, Landing BH. Generalized gangliosidosis; another inborn error of ganglioside metabolism? *Am J Dis Child* 1965;109:338–46.
- [1157] Cogan DG, Kuwabara T, Moser H, et al. Retinopathy in a case of Farber's lipogranulomatosis. *Arch Ophthalmol* 1966;75:752–7.
- [1158] Farber S. A lipid metabolic disorder – disseminated "lipogranulomatosis" – a syndrome with similarity to, and important difference from, Niemann–Pick and Hand–Schüller–



- Christian disease. *Am J Dis Child* 1952;84:499–500.
- [1159] Zarbin MA, Green WR, Moser HW, et al. Farber's disease; light and electron microscopic study of the eye. *Arch Ophthalmol* 1985;103:73–80.
- [1160] Libert J, Van Hoof F, Toussaint D. Ocular findings in metachromatic leukodystrophy; an electron microscopic and enzyme study in different clinical and genetic variants. *Arch Ophthalmol* 1979;97:1495–504.
- [1161] Quigley HA, Green WR. Clinical and ultrastructural ocular histopathologic studies of adult-onset metachromatic leukodystrophy. *Am J Ophthalmol* 1976;82:472–9.
- [1162] Grabowski GA. Phenotype, diagnosis, and treatment of Gaucher's disease. *Lancet* 2008;372:1263–71.
- [1163] Cogan DG, Chu FC, Gittinger J, et al. Fundal abnormalities of Gaucher's disease. *Arch Ophthalmol* 1980;98:2202–3.
- [1164] Ueno H, Ueno S, Kajitani T. Clinical and histopathological studies of a case with juvenile form of Gaucher's disease. *Jpn J Ophthalmol* 1977;21:98–108.
- [1165] Ueno H, Ueno S, Matsuo N, et al. Electron microscopic study of Gaucher cells in the eye. *Jpn J Ophthalmol* 1980;24:75–81.
- [1166] Wang TJ, Chen MS, Shih YF, et al. Fundus abnormalities in a patient with type I Gaucher's disease with 12-year follow-up. *Am J Ophthalmol* 2005;139:359–62.
- [1167] East T, Savin LH. A case of Gaucher's disease with biopsy of the typical pingueculae. *Br J Ophthalmol* 1940;24:611–3.
- [1168] Petrohelos M, Tricoulis D, Kotsiras I, et al. Ocular manifestations of Gaucher's disease. *Am J Ophthalmol* 1975;80:1006–10.
- [1169] Sasaki T, Tsukahara S. New ocular findings in Gaucher's disease: report of two brothers. *Ophthalmologica* 1985;191:206–9.
- [1170] Yanoff M, Fine BS. Ocular pathology; a text and atlas, 2nd ed. Philadelphia: Harper & Row; 1982. p. 552.
- [1171] Abraham FA, Yatziv S, Russell A, et al. Electrophysiological and psychophysical findings in Hunter syndrome. *Arch Ophthalmol* 1974;91:181–6.
- [1172] Del Monte MA, Maumenee IH, Green WR, et al. Histopathology of Sanfilippo's syndrome. *Arch Ophthalmol* 1983;101:1255–62.
- [1173] Epstein RL. Inborn metabolic disorders and the eye. In: Peyman GA, Sanders DR, Goldberg MF, editors. Principles and practice of ophthalmology. Philadelphia: WB Saunders; 1980. p. 1729.
- [1174] Matalon R, Dorfman A. Hurler's syndrome, an  $\alpha$ -L-iduronidase deficiency. *Biochem Biophys Res Commun* 1972;47:959–64.
- [1175] Sanfilippo SJ, Yunis J, Worthen HG. An unusual storage disease resembling the Hunter–Hurler syndrome. *Am J Dis Child* 1962;104:553.
- [1176] Scheie HG, Hambrick Jr GW, Barness LA. A newly recognized forme fruste of Hurler's disease (gargoylism). *Am J Ophthalmol* 1962;53:753–69.
- [1177] Usui T, Shirakashi M, Takagi M. Macular edema-like change and pseudo-papilledema in a case of Scheie syndrome. *J Clin Neuro-Ophthalmol* 1991;11:183–5.
- [1178] Pitz S, Ogun O, Bajbouj M, et al. Ocular changes in patients with mucopolysaccharidosis I receiving enzyme replacement therapy: a 4-year experience. *Arch Ophthalmol* 2007;125:1353–6.
- [1179] Goldberg MF, Duke JR. Ocular histopathology in Hunter's syndrome; systemic mucopolysaccharidosis type II. *Arch Ophthalmol* 1967;77:503–12.
- [1180] Koliopoulos J, Bartsokas C, Kenyon K. Ocular manifestations of the mucopolysaccharidoses. *Bull Soc Hellén Ophtalmol* 1977;45:70–84.
- [1181] Lindsay S, Reilly WA, Gotham TH, et al. Gargoylism II. Study of pathologic lesions and clinical review of twelve cases. *Am J Dis Child* 1948;76:239–306.
- [1182] McDonnell JM, Green WR, Maumenee IH. Ocular histopathology of systemic mucopolysaccharidosis, Type II-A (Hunter syndrome, severe). *Ophthalmology* 1985;92:1772–9.
- [1183] Topping TM, Kenyon KR, Goldberg MF, et al. Ultrastructural ocular pathology of Hunter's syndrome; systemic mucopolysaccharidosis type II. *Arch Ophthalmol* 1971;86:164–77.
- [1184] Ashworth JL, Biswas S, Wraith E, et al. The ocular features of the mucopolysaccharidoses. *Eye (Lond)* 2006;20:553–63.
- [1185] Ashworth JL, Biswas S, Wraith E, et al. Mucopolysaccharidoses and the eye. *Surv Ophthalmol* 2006;51:1–17.
- [1186] Sato S, Maeda N, Watanabe H, et al. Multiple iridociliary cysts in patients with mucopolysaccharidoses. *Br J Ophthalmol* 2002;86:933–4.
- [1187] Dolman CL. Diagnosis of neurometabolic disorders by examination of skin biopsies and lymphocytes. *Semin Diagn Pathol* 1984;1:82–97.
- [1188] Summers CG, Purple RL, Krivit W. Ocular changes in the mucopolysaccharidoses after bone marrow transplantation; a preliminary report. *Ophthalmology* 1989;96:977–85.
- [1189] Riedel KG, Zwaan J, Kenyon KR. Ocular abnormalities in mucopolysaccharidosis IV. *Am J Ophthalmol* 1985;99:125–36.
- [1190] Spranger JW, Wiedemann HR. The genetic mucopolysaccharidoses; diagnosis and differential diagnosis. *Humangenetik* 1970;9:113–39.
- [1191] Traboulsi EI, Maumenee IH. Ophthalmologic findings in mucopolysaccharidosis III (pseudo-Hurler polydystrophy). *Am J Ophthalmol* 1986;102:592–7.
- [1192] Dierks T, Schlotawa L, Frese MA, et al. Molecular basis of multiple sulfatase deficiency, mucopolysaccharidosis II/III and Niemann–Pick C1 disease – Lysosomal storage disorders caused by defects of non-lysosomal proteins. *Biochim Biophys Acta* 2009;1793:710–25.
- [1193] Cathey SS, Kudo M, Tiede S, et al. Molecular order in mucopolysaccharidosis II and III nomenclature. *Am J Med Genet A* 2008;146A:512–3.
- [1194] Spranger J. Mucopolysaccharidosis I. *Birth Defects* 1975;11:279–82.
- [1195] Kirkham TH, Coupland SG, Guitton D. Sialidosis: the cherry-red spot–myoclonus syndrome. *Can J Ophthalmol* 1980;15:35–9.
- [1196] Rapin I, Goldfischer S, Katzman R. The cherry-red spot–myoclonus syndrome. *Ann Neurol* 1978;3:234–42.
- [1197] Sogg RL, Steinman L, Rathjen B. Cherry-red spot–myoclonus syndrome. *Ophthalmology* 1979;86:1861–73.
- [1198] Spranger J, Cantz M. Mucopolysaccharidosis I the cherry-red-spot–myoclonus syndrome and neuraminidase deficiency. *Birth Defects* 1978;14:105–12.
- [1199] Goldberg MF. Macular cherry-red spot and corneal haze in sialidosis (mucopolysaccharidosis type I). *Arch Ophthalmol* 2008;126:1778.
- [1200] Heroman JW, Rychwalski P, Barr CC. Cherry red spot in sialidosis (mucopolysaccharidosis type I). *Arch Ophthalmol* 2008;126:270–1.
- [1201] Font RL, editor. Case presented at the joint meeting of the verhoeff and european ophthalmic pathology societies, April 25–28, 1971, London.
- [1202] Gass J. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 327.
- [1203] Pourjavan S, Fryns JP, Van Hove JL, et al. Ophthalmological findings in a patient with mucopolysaccharidosis III (pseudo-Hurler polydystrophy). A case report. *Bull Soc Belge Ophtalmol* 2002;286:19–24.
- [1204] Berman ER, Livni N, Shapira E. Congenital corneal clouding

- with abnormal systemic storage bodies; a new variant of mucopolipidosis. *J Pediatr* 1974;84:519–26.
- [1205] Pradhan SM, Atchaneeyasakul LO, Appukuttan B, et al. Electronegative electroretinogram in mucopolipidosis IV. *Arch Ophthalmol* 2002;120:45–50.
- [1206] Dobrovolny R, Liskova P, Ledvinova J, et al. Mucopolipidosis IV: report of a case with ocular restricted phenotype caused by leaky splice mutation. *Am J Ophthalmol* 2007;143:663–71.
- [1207] Casteels I, Taylor DS, Lake BD, et al. Mucopolipidosis type IV. Presentation of a mild variant. *Ophthalmic Paediatr Genet* 1992;13:205–10.
- [1208] Bach G. Mucopolipidosis type IV. *Mol Genet Metab* 2001;73:197–203.
- [1209] Goldberg MF, Cotlier E, Fichenscher LG. Macular cherry-red spot, corneal clouding and  $\beta$ -galactosidase deficiency. *Arch Intern Med* 1971;128:387–98.
- [1210] Tsuji S, Yamada T, Tsutsumi A, et al. Neuraminidase deficiency and accumulation of sialic acid in lymphocytes in adult type sialidosis with partial beta-galactosidase deficiency. *Ann Neurol* 1982;11:541–3.
- [1211] Usui T, Sawaguchi S, Abe H. Late-infantile type galactosialidosis; histopathology of the retina and optic nerve. *Arch Ophthalmol* 1991;109:542–6.
- [1212] Patel MS, Callahan JW, Zhang S, et al. Early-infantile galactosialidosis: prenatal presentation and postnatal follow-up. *Am J Med Genet* 1999;85:38–47.
- [1213] Landau D, Meisner I, Zeigler M, et al. Hydrops fetalis in four siblings caused by galactosialidosis. *Isr J Med Sci* 1995;31:321–2.
- [1214] Carvalho S, Martins M, Fortuna A, et al. Galactosialidosis presenting as nonimmune fetal hydrops: a case report. *Prenat Diagn* 2009;29:895–6.
- [1215] Hisahara S, Fujita T, Yoshizawa K, et al. Two siblings of galactosialidosis with marked progression of cardiac involvement during 10 years. *Rinsho Shinkeigaku* 1996;36:562–5.
- [1216] Usui T, Abe H, Takagi M, et al. Electroretinogram and visual evoked potential in two siblings with adult form galactosialidosis. *Metab Pediatr Syst Ophthalmol* 1993;16:19–22.
- [1217] Bateman JB, Philippart M. Ocular features of the Hagberg-Santavuori syndrome. *Am J Ophthalmol* 1986;102:262–71.
- [1218] Batten FE. Cerebral degeneration with symmetrical changes in the maculae in two members of a family. *Trans Ophthalmol Soc UK* 1903;23:386–90.
- [1219] Brod RD, Packer AJ, Van Dyk HJL. Diagnosis of neuronal ceroid lipofuscinosis by ultrastructural examination of peripheral blood lymphocytes. *Arch Ophthalmol* 1987;105:1388–93.
- [1220] De Venecia G, Shapiro M. Neuronal ceroid lipofuscinosis; a retinal trypsin digest study. *Ophthalmology* 1984;91:1406–10.
- [1221] Goebel HH, Fix JD, Zeman W. The fine structure of the retina in neuronal ceroid-lipofuscinosis. *Am J Ophthalmol* 1974;77:25–39.
- [1222] Goebel HH, Klein H, Santavuori P, et al. Ultrastructural studies of the retina in infantile neuronal ceroid-lipofuscinosis. *Retina* 1988;8:59–67.
- [1223] Goebel HH, Zeman W, Damaske E. An ultrastructural study of the retina in the Jansky-Bielschowsky type of neuronal ceroid-lipofuscinosis. *Am J Ophthalmol* 1977;83:70–9.
- [1224] Gottlob I, Leipert KP, Kohlschütter A, et al. Electrophysiological findings of neuronal ceroid lipofuscinosis in heterozygotes. *Graefes Arch Clin Exp Ophthalmol* 1988;226:516–21.
- [1225] Hittner HM, Zeller RS. Ceroid-lipofuscinosis (Batten disease); fluorescein angiography, electrophysiology, histopathology, ultrastructure, and a review of amaurotic familial idiocy. *Arch Ophthalmol* 1975;93:178–83.
- [1226] Raitta C, Santavuori P. Ophthalmological findings in infantile type of so-called neuronal ceroid lipofuscinosis. *Acta Ophthalmol* 1973;51:755–63.
- [1227] Schochet Jr SS, Font RL, Morris III HH. Jansky-Bielschowsky form of neuronal ceroid-lipofuscinosis; ocular pathology of the Batten-Vogt syndrome. *Arch Ophthalmol* 1980;98:1083–8.
- [1228] Spalton DJ, Taylor DSI, Sanders MD. Juvenile Batten's disease: an ophthalmological assessment of 26 patients. *Br J Ophthalmol* 1980;64:726–32.
- [1229] Traboulsi EI, Green WR, Luckenbach MW, et al. Neuronal ceroid lipofuscinosis; ocular histopathologic and electron microscopic studies in the late infantile, juvenile, and adult forms. *Graefes Arch Clin Exp Ophthalmol* 1987;225:391–402.
- [1230] Zeman W. Batten disease: ocular features, differential diagnosis and diagnosis by enzyme analysis. *Birth Defects* 1976;12:441–53.
- [1231] Zeman W. Studies in the neuronal ceroid-lipofuscinosis. *J Neuropathol Exp Neurol* 1974;33:1–12.
- [1232] Collins J, Holder GE, Herbert H, et al. Batten disease: features to facilitate early diagnosis. *Br J Ophthalmol* 2006;90:1119–24.
- [1233] Mole SE. The genetic spectrum of human neuronal ceroid-lipofuscinoses. *Brain Pathol* 2004;14:70–6.
- [1234] Mole SE, Williams RE, Goebel HH. Correlations between genotype, ultrastructural morphology and clinical phenotype in the neuronal ceroid lipofuscinoses. *Neurogenetics* 2005;6:107–26.
- [1235] Hainsworth DP, Liu GT, Hamm CW, et al. Fundoscopic and angiographic appearance in the neuronal ceroid lipofuscinoses. *Retina* 2009;29:657–68.
- [1236] Weleber RG, Gupta N, Trzupke KM, et al. Electroretinographic and clinicopathologic correlations of retinal dysfunction in infantile neuronal ceroid lipofuscinosis (infantile Batten disease). *Mol Genet Metab* 2004;83:128–37.
- [1237] Eksandh LB, Ponjavic VB, Munroe PB, et al. Full-field ERG in patients with Batten/Spielmeier-Vogt disease caused by mutations in the CLN3 gene. *Ophthalmic Genet* 2000;21:69–77.
- [1238] Bensaoula T, Shibuya H, Katz ML, et al. Histopathologic and immunocytochemical analysis of the retina and ocular tissues in Batten disease. *Ophthalmology* 2000;107:1746–53.
- [1239] Ivan CS, Saint-Hilaire MH, Christensen TG, et al. Adult-onset neuronal ceroid lipofuscinosis type B in an African-American. *Mov Disord* 2005;20:752–4.
- [1240] Tyni T, Kivela T, Lappi M, et al. Ophthalmologic findings in long-chain 3-hydroxyacyl-CoA dehydrogenase deficiency caused by the G1528C mutation: a new type of hereditary metabolic chorioretinopathy. *Ophthalmology* 1998;105:810–24.
- [1241] Fahnehjelm KT, Holmstrom G, Ying L, et al. Ocular characteristics in 10 children with long-chain 3-hydroxyacyl-CoA dehydrogenase deficiency: a cross-sectional study with long-term follow-up. *Acta Ophthalmol* 2008;86:329–37.
- [1242] Tyni T, Paetau A, Strauss AW, et al. Mitochondrial fatty acid beta-oxidation in the human eye and brain: implications for the retinopathy of long-chain 3-hydroxyacyl-CoA dehydrogenase deficiency. *Pediatr Res* 2004;56:744–50.
- [1243] Lund AM, Skovby F, Vestergaard H, et al. Clinical and biochemical monitoring of patients with fatty acid oxidation disorders. *J Inher Metab Dis* 2010;33:495–500.
- [1244] Bellmann C, Neveu MM, Scholl HP, et al. Localized retinal electrophysiological and fundus autofluorescence imaging abnormalities in maternal inherited diabetes and deafness. *Invest Ophthalmol Vis Sci* 2004;45:2355–60.
- [1245] Daily MJ, Mets MB. Fenestrated sheen macular dystrophy. *Arch Ophthalmol* 1984;102:855–6.

## 第6章

- [1] Beyer E-M. Familiäre Tortuositas der kleinen Netzhautarterien mit Makulablutung. *Klin Monatsbl Augenheilkd* 1958;132:532-40.
- [2] Werner H, Gafner F. Beitrag zur familiären Tortuositas der kleinen Netzhautarterien. *Ophthalmologica* 1961;141:350-6.
- [3] Cagianut B. Zum Krankheitsbild der familiären Tortuositas der kleinen Netzhautgefäße. *Ophthalmologica* 1968;156:322-4.
- [4] Cagianut B, Werner H. Zum Krankheitsbild der familiären Tortuositas der kleinen Netzhautarterien mit Makulablutung. *Klin Monatsbl Augenheilkd* 1968;153:533-42.
- [5] Goldberg MF, Pollack IP, et al. Familial retinal arteriolar tortuosity with retinal hemorrhage. *Am J Ophthalmol* 1972;73:183-91.
- [6] Wells CG, Kalina RE. Progressive inherited retinal arteriolar tortuosity with spontaneous retinal hemorrhages. *Ophthalmology* 1985;92:1015-24.
- [7] Kayazawa F, Machida T. Retinal arteriolar tortuosity with macular hemorrhage. *Ann Ophthalmol* 1983;15:42-3.
- [8] Wells CG, Kalina RE. Progressive inherited retinal arteriolar tortuosity with spontaneous retinal hemorrhages. *Ophthalmology* 1985;92:1015-24.
- [9] Faisal ZK, Abboud EB. New hemorrhages during scleral buckling in inherited retinal arteriolar tortuosity. *Arch Ophthalmol* 1995;113:853-4.
- [10] Gekeler F, Shinoda K, Junger M, et al. Familial retinal arterial tortuosity associated with tortuosity in nail bed capillaries. *Arch Ophthalmol* 2006;124:1492-4.
- [11] Plaisier E, Alamowitch S, Gribouval O, et al. Autosomal-dominant familial hematuria with retinal arteriolar tortuosity and contractures: a novel syndrome. *Kidney Int* 2005;67:2354-60.
- [12] Seo JH, Kim I, Yu HG. A case of carotid aneurysm in familial retinal arterial tortuosity. *Korean J Ophthalmol* 2009;23:57-8.
- [13] Johns KJ, Johns JA, Feman SS. Retinal vascular abnormalities in patients with coarctation of the aorta. *Arch Ophthalmol* 1991;109:1266-8.
- [14] Meredith TA. Inherited retinal venous beading. *Arch Ophthalmol* 1987;105:949-53.
- [15] Stewart MW, Gitter KA. Inherited retinal venous beading. *Am J Ophthalmol* 1988;106:675-81.
- [16] Beratis NG, Varvarigou A, Katsibris J, et al. Vascular retinal abnormalities in neonates of mothers who smoked during pregnancy. *J Pediatr* 2000;136:760-6.
- [17] Mansour AM, Bitar FF, Traboulsi EI, et al. Ocular pathology in congenital heart disease. *Eye (Lond)* 2005;19:29-34.
- [18] Bär C. Ein Fall von in den Glaskörper vordringender Arterien-schlinge in einem durch Embolie der Centralarterie erblindeten Auge. *Klin Monatsbl Augenheilkd* 1901;39:307-15.
- [19] Brown GC, Magargal L, Augsburger JJ, et al. Preretinal arterial loops and retinal arterial occlusion. *Am J Ophthalmol* 1979;87:646-51.
- [20] Brucker AJ, Michels RG, Fine SL. Congenital retinal arterial loops and vitreous hemorrhage. *Am J Ophthalmol* 1977;84:220-3.
- [21] Degenhart W, Brown GC, Augsburger JJ, et al. Prepapillary vascular loops. *Ophthalmology* 1981;88:1126-31.
- [22] Grossniklaus H, Thall E, Annable W. Familial prepapillary vascular loops. *Arch Ophthalmol* 1986;104:1755-6.
- [23] Harcourt RB, Lockett NA. Occlusion of a pre-retinal arterial loop. *Br J Ophthalmol* 1967;51:562-5.
- [24] Lambert HM, Sipperley JO, Shacklett DE. Autosomal dominant preretinal vascular loops. *Retina* 1983;3:258-60.
- [25] Liebreich R. Demonstrations of diseases of the eye: persistent hyaloid artery and vein. *Trans Pathol Soc Lond* 1871;22:221.
- [26] Limaye SR, Tang RA, Pilkerton AR. Cilioretinal circulation and branch arterial occlusion associated with preretinal arterial loops. *Am J Ophthalmol* 1980;89:834-9.
- [27] Regenbogen L, Godel V, Spierer A, et al. Retinal arterial loop occlusion. *Ann Ophthalmol* 1981;13:729-32.
- [28] Shakin EP, Shields JA, Augsburger JJ, et al. Clinicopathologic correlation of a prepapillary vascular loop. *Retina* 1988;8:55-8.
- [29] Walker CH. Thrombosis of the inferior temporal branch of the arteria centralis retinae in an eye with a persistent hyaloid artery and vein; ? caused by exposure to direct sunlight. *Trans Ophthalmol Soc UK* 1903;23:279-81.
- [30] Brown GC, Donoso LA, Magargal LE. Congenital retinal macrovessels. *Arch Ophthalmol* 1982;100:1430-6.
- [31] Mauthner L. *Lehrbuch der Ophthalmoscopie*. Vienna: Tendler; 1868. p. 249
- [32] Han JR, Jeon GS, Park JH, et al. Congenital retinal macrovessel and foveal dysplasia of retinopathy of prematurity. *Jpn J Ophthalmol* 2009;53:277-9.
- [33] Mansour AM, Walsh JB, Henkind P. Arteriovenous anastomosis of the retina. *Ophthalmology* 1987;94:35-40.
- [34] Archer DB, Deutman A, Ernest JT, et al. Arteriovenous communications of the retina. *Am J Ophthalmol* 1973;75:224-41.
- [35] Augsburger JJ, Goldberg RE, Shields JA. Changing appearance of retinal arteriovenous malformation. *Albrecht von Graefes Arch Klin Exp Ophthalmol* 1980;215:65-70.
- [36] Baurmann H, Meyer F, Oberhoff P. Komplikationen bei der arteriovenösen anastomose der Netzhaut. *Klin Monatsbl Augenheilkd* 1968;153:562-71.
- [37] Bech K, Jensen OA. On the frequency of co-existing racemose haemangiomas of the retina and brain. *Acta Psychiatr Neurol Scand* 1961;36:47-56.
- [38] Bellhorn RW, Friedman AH, Henkind P. Racemose (cirroid) hemangioma in rhesus monkey retina. *Am J Ophthalmol* 1972;74:517-22.
- [39] Cagianut B. Das arterio-venöse Aneurysma der Netzhaut. *Klin Monatsbl Augenheilkd* 1962;140:180-91.
- [40] Cameron ME, Greer CH. Congenital arterio-venous aneurysm of the retina; a post mortem report. *Br J Ophthalmol* 1968;52:768-72.
- [41] JDM Gass. Differential diagnosis of intraocular tumors; a stereoscopic presentation. *St. Louis: CV Mosby; 1974. p. 307-9.*
- [42] Gregersen E. Arteriovenous aneurysm of the retina; a case of spontaneous thrombosis and "healing". *Acta Ophthalmol* 1961;39:937-9.
- [43] Hayasaka S, Kanamori M, Morihiro K-I, et al. Anomalous macular vessels: case report and review of the recent Japanese literature. *Ann Ophthalmol* 1990;22:454-6.
- [44] Hopen G, Smith JL, Hoff JT, et al. The Wyburn-Mason syndrome; concomitant chiasmal and fundus vascular malformations. *J Clin Neuro-Ophthalmol* 1983;3:53-62.
- [45] Horiuchi T, Gass JDM, David NJ. Arteriovenous malformation in the retina of a monkey. *Am J Ophthalmol* 1976;82:896-904.
- [46] LaDow CS, Henefer EP, McFall TA. Central hemangioma of the maxilla, with von Hippel's disease: report of a case. *J Oral Surg Anesth Hosp Dent Ser* 1964;22:252-9.
- [47] Magnus H. Aneurysma arterioso-venosum retinae. *Virchows Arch Pathol Anat* 1874;60:38-45.
- [48] Mozetti M. Sulle anomalie dei vasi retinici ed in particolare modo sull'aneurisma cirsoide della retina. *Boll Oculist* 1939;18:455-68.
- [49] Pauleikhoff D, Wessing A. Arteriovenous communications of the retina during a 17-year follow-up. *Retina* 1991;11:433-6.
- [50] Schatz H, Chang LF, Ober RR. Central retinal vein occlusion associated with retinal arteriovenous malformation.

- Ophthalmology 1993;100:24-30.
- [51] Tilanus MD, Hoyng C, Deutman AF. Congenital arteriovenous communications and the development of two types of leaking retinal macroaneurysms. *Am J Ophthalmol* 1991;112:31-3.
- [52] Wyburn-Mason R. Arteriovenous aneurysm of mid-brain and retina, facial naevi and mental changes. *Brain* 1943;65:163-203.
- [53] Effron L, Zakov ZN, Tomsak RL. Neovascular glaucoma as a complication of the Wyburn-Mason syndrome. *J Clin Neuro-Ophthalmol* 1985;5:95-8.
- [54] Bonnet P, Dechaume J, Blanc E. L'anévrisme cirsoïde de la rétine (anévrisme racémeux); ses relations avec l'anévrisme cirsoïde de la face et l'anévrisme cirsoïde du cerveau. *Bull Mem Soc Fr Ophtalmol* 1938;51:521-4.
- [55] Brodsky MC, Hoyt WF, Higashida RT. Bonnet-Dechaume-Blanc syndrome with large facial angioma. *Arch Ophthalmol* 1987;105:854-5.
- [56] de Crecchio G, Pacente L, Alfieri MC, et al. Valsalva retinopathy associated with a congenital retinal macrovessel. *Arch Ophthalmol* 2000;118:146-7.
- [57] Koizumi H, Iida T, Mori T, et al. Retinal arteriolar macroaneurysm and congenital retinal macrovessel. *Ophthalmic Surg Lasers Imag* 2009;40:513-5.
- [58] Chen T-L, Yarnig S-S. Vitreous hemorrhage from a persistent hyaloid artery. *Retina* 1993;13:148-51.
- [59] Mansour AM, Wells CG, Jampol LM, et al. Ocular complications of arteriovenous communications of the retina. *Arch Ophthalmol* 1989;107:232-6.
- [60] Muñoz FJ, Rebolleda G, Cores FJ, et al. Congenital retinal arteriovenous communication associated with a full-thickness macular hole. *Acta Ophthalmol* 1991;69:117-20.
- [61] Dekking HM. Arteriovenous aneurysm of the retina with spontaneous regression. *Ophthalmologica* 1955;130:113-5.
- [62] Bolling JP, Buettner H. Acquired retinal arteriovenous communications in occlusive disease of the carotid artery. *Ophthalmology* 1990;97:1148-52.
- [63] Mintz-Hittner HA, Knight-Nanan DM, Satriano DR, et al. A small foveal avascular zone may be an historic mark of prematurity. *Ophthalmology* 1999;106:1409-13.
- [64] Provis JM, Hendrickson AE. The foveal avascular region of developing human retina. *Arch Ophthalmol* 2008;126:507-11.
- [65] Gariano RF. Special features of human retinal angiogenesis. *Eye (Lond)* 2010;24:401-7.
- [66] Hendrickson A, Troilo D, Possin D, et al. Development of the neural retina and its vasculature in the marmoset *Callithrix jacchus*. *J Comp Neurol* 2006;497:270-86.
- [67] Hendrickson A, Djajadi H, Erickson A, et al. Development of the human retina in the absence of ganglion cells. *Exp Eye Res* 2006;83:920-31.
- [68] Provis JM, Sandercoe T, Hendrickson AE. Astrocytes and blood vessels define the foveal rim during primate retinal development. *Invest Ophthalmol Vis Sci* 2000;41:2827-36.
- [69] van Genderen MM, Riemsdag FC, Schuil J, et al. Chiasmal misrouting and foveal hypoplasia without albinism. *Br J Ophthalmol* 2006;90:1098-102.
- [70] Appen RE, Wray SH, Cogan DG. Central retinal artery occlusion. *Am J Ophthalmol* 1975;79:374-81.
- [71] Ball CJ. Atheromatous embolism to the brain, retina, and choroid. *Arch Ophthalmol* 1966;76:690-5.
- [72] Brownstein S, Font RL, Alper MG. Atheromatous plaques of the retinal blood vessels; histologic confirmation of ophthalmoscopically visible lesions. *Arch Ophthalmol* 1973;90:49-52.
- [73] Carlson MR, Pilger IS, Rosenbaum AL. Central retinal artery occlusion after carotid angiography. *Am J Ophthalmol* 1976;81:103-4.
- [74] Gold D. Retinal arterial occlusion. *Trans Am Acad Ophthalmol Otolaryngol* 1977;83:OP392-OP408.
- [75] Hartel WC, Spoor TC, Hammer ME. Retinal embolism following percutaneous femoral cerebral angiography. *J Clin Neuro-Ophthalmol* 1982;2:49-54.
- [76] Ivan DJ, May DR, Evans RM. Active central retinal artery embolization. *Ophthalmology* 1981;88:673-5.
- [77] Karjalainen K. Occlusion of the central retinal artery and retinal branch arterioles; a clinical, tonographic and fluorescein angiographic study of 175 patients. *Acta Ophthalmol Suppl* 1971:109.
- [78] Kotsuka N. A case of retinal embolism with bright plaques in retinal artery. *Jpn J Clin Ophthalmol* 1966;20(947-948):89-92.
- [79] Schmidt D, Schumacher M, Wakhloo AK. Microcatheter urokinase infusion in central retinal artery occlusion. *Am J Ophthalmol* 1992;113:429-34.
- [80] Schwarcz TH, Eton D, Ellenby MI. Hollenhorst plaques: retinal manifestations and the role of carotid endarterectomy. *J Vasc Surg* 1990;11:635.
- [81] Tsutsumi A. Retinopathy in cyanotic congenital heart disease. *Jpn J Clin Ophthalmol* 1983;37:933-8.
- [82] Whiteman DW, Rosen DA, Pinkerton RMH. Retinal and choroidal microvascular embolism after intranasal corticosteroid injection. *Am J Ophthalmol* 1980;89:851-3.
- [83] Wiznia RA, Pearson WN. Use of transesophageal echocardiography for detection of a likely source of embolization to the central retinal artery. *Am J Ophthalmol* 1991;111:104-5.
- [84] Wolter JR, Ryan RW. Atheromatous embolism of the central retinal artery; secondary hemorrhagic glaucoma. *Arch Ophthalmol* 1972;87:301-4.
- [85] Brown GC, Magargal LE, Shields JA. Retinal arterial obstruction in children and young adults. *Ophthalmology* 1981;88:18-25.
- [86] Bucci Jr FA, Dimitropoulos TM, Krohel GB. Branch retinal artery occlusion secondary to percutaneous transluminal coronary angioplasty. *Br J Ophthalmol* 1989;73:309-10.
- [87] Pe'er J, Milgalter E, Matamoros N. Retinal emboli after open heart surgery. *Arch Ophthalmol* 1986;107:317.
- [88] Shimizu T, Kiyosawa M, Miura T. Acute obstruction of the retinal and choroidal circulation as a complication of interventional angiography. *Graefes Arch Clin Exp Ophthalmol* 1993;231:43-7.
- [89] Arruga J, Sanders MD. Ophthalmologic findings in 70 patients with evidence of retinal embolism. *Ophthalmology* 1982;89:1336-47.
- [90] Brown GC, Magargal LE. Sudden occlusion of the retinal and posterior choroidal circulations in a youth. *Am J Ophthalmol* 1979;88:690-3.
- [91] De Potter P, Zografos L. Survival prognosis of patients with retinal artery occlusion and associated carotid artery disease. *Graefes Arch Clin Exp Ophthalmol* 1993;231:212-6.
- [92] Kollarits CR, Lubow M, Hissong SL. Retinal strokes. I. Incidence of carotid atheromata. *JAMA* 1972;222:1273-5.
- [93] Bergen RL, Cangemi FE, Glassman R. Bilateral arterial occlusion secondary to Barlow's syndrome. *Ann Ophthalmol* 1982;14:673-5.
- [94] Caltrider ND, Irvine AR, Kline HJ, et al. Retinal emboli in patients with mitral valve prolapse. *Am J Ophthalmol* 1980;90:534-9.
- [95] Brown GC, Magargal LE, Simeone FA. Arterial obstruction and ocular neovascularization. *Ophthalmology* 1982;89:139-46.
- [96] Brown GC, Magargal LE. Central retinal artery obstruction and visual acuity. *Ophthalmology* 1982;89:14-19.
- [97] Brown GC, Shields JA. Cilioretinal arteries and retinal arterial occlusion. *Arch Ophthalmol* 1979;97:84-92.
- [98] Oji EO, McLeod D. Partial central retinal artery occlusion. *Trans Ophthalmol Soc UK* 1978;98:156-9.



- [99] Dahrling II BE. The histopathology of early central retinal artery occlusion. *Arch Ophthalmol* 1965;73:506-10.
- [100] Kroll AJ. Experimental central retinal artery occlusion. *Arch Ophthalmol* 1968;79:453-69.
- [101] JDM Gass. A fluorescein angiographic study of macular dysfunction secondary to retinal vascular disease. I. Embolic retinal artery obstruction. *Arch Ophthalmol* 1968;80:535-49.
- [102] McLeod D, Marshall J, Kohner EM, et al. The role of axoplasmic transport in the pathogenesis of retinal cotton-wool spots. *Br J Ophthalmol* 1977;61:177-91.
- [103] Burde RM, Smith ME, Black JT. Retinal artery occlusion in the absence of a cherry red spot. *Surv Ophthalmol* 1982;27:181-6.
- [104] Cherny M, O'Day J, Currie J. Intraretinal gray lesions as a sign of reversible visual loss following prolonged ophthalmic artery hypoperfusion. *J Clin Neuro-Ophthalmol* 1991;11:228-32.
- [105] Brown GC, Moffat K, Cruess A. Cilioretinal artery obstruction. *Retina* 1983;3:182-7.
- [106] Ros MA, Magargal LE, Uram M. Branch retinal-artery obstruction: a review of 201 eyes. *Ann Ophthalmol* 1989;21:103-7.
- [107] Zylbermann R, Rozenman Y, Ronen S. Functional occlusion of a cilioretinal artery. *Ann Ophthalmol* 1981;13:1269-72.
- [108] Hollenhorst RW. Significance of bright plaques in the retinal arterioles. *Trans Am Ophthalmol Soc* 1961;59:252-73.
- [109] Hollenhorst RW. Vascular status of patients who have cholesterol emboli in the retina. *Am J Ophthalmol* 1966;61:1159-65.
- [110] Younge BR. The significance of retinal emboli. *J Clin Neuro-Ophthalmol* 1989;9:190-4.
- [111] Sadun AA, Green RL, Nobe JR, et al. Papillopathies associated with unusual calcifications in the retrolaminar optic nerve. *J Clin Neuro-Ophthalmol* 1991;11:175-80.
- [112] Hayreh SS, Zimmerman MB. Central retinal artery occlusion: visual outcome. *Am J Ophthalmol* 2005;140:376-91.
- [113] David NJ, Gilbert DS, JDM Gass. Fluorescein angiography in retinal arterial branch obstructions. *Am J Ophthalmol* 1970;69:43-55.
- [114] David NJ, Norton EWD, Gass JDM, et al. Fluorescein angiography in central retinal artery occlusion. *Arch Ophthalmol* 1967;77:619-29.
- [115] Sano H, Kaneko H, Tani M. Clinical studies on occlusion of the retinal artery by fluorescein fundus photography. *Jpn J Ophthalmol* 1968;12:190-200.
- [116] Jacobs DS, Lessell S, Grove AS. Acquired arterial collateral vessels at the optic disc. *Arch Ophthalmol* 1992;110:20-1.
- [117] Klein R, Klein B, Henkind P, et al. Retinal collateral vessel formation. *Invest Ophthalmol* 1971;10:471-80.
- [118] Tsacopoulos M, Baker R. Characteristics of fluorescein leakage from retinal arterioles following microembolization. *Exp Eye Res* 1975;20:23-32.
- [119] Duker JS, Brown GC. Iris neovascularization associated with obstruction of the central retinal artery. *Ophthalmology* 1988;95:1244-50.
- [120] Duker JS, Brown GC. The efficacy of panretinal photocoagulation for neovascularization of the iris after central retinal artery obstruction. *Ophthalmology* 1989;96:92-5.
- [121] Duker JS, Brown GC. Neovascularization of the optic disc associated with obstruction of the central retinal artery. *Ophthalmology* 1989;96:87-91.
- [122] Duker JS, Sivalingam A, Brown GC, et al. A prospective study of acute central retinal artery obstruction; the incidence of secondary ocular neovascularization. *Arch Ophthalmol* 1991;109:339-42.
- [123] Hayreh SS, Podhajsky PA, Zimmerman MB. Retinal artery occlusion associated systemic and ophthalmic abnormalities. *Ophthalmology* 2009;116:1928-36.
- [124] Hayreh SS. Intra-arterial thrombolysis for central retinal artery occlusion. *Br J Ophthalmol* 2008;92:585-7.
- [125] Hayreh SS, Zimmerman MB. Fundus changes in central retinal artery occlusion. *Retina* 2007;27:276-89.
- [126] Hayreh SS. Neovascular glaucoma. *Prog Retin Eye Res* 2007;26:470-85.
- [127] Mizener JB, Podhajsky P, Hayreh SS. Ocular ischemic syndrome. *Ophthalmology* 1997;104:859-64.
- [128] Foster RE, Gutman FA, Meyers SM, et al. Acute multifocal inner retinitis. *Am J Ophthalmol* 1991;111:673-81.
- [129] Orzalesi N, Ricciardi L. Segmental retinal periarteritis. *Am J Ophthalmol* 1971;72:55-9.
- [130] Hayreh SS, Kolder HE, Weingeist TA. Central retinal artery occlusion and retinal tolerance time. *Ophthalmology* 1980;87:75-8.
- [131] Duker JS, Brown GC. Recovery following acute obstruction of the retinal and choroidal circulations; a case history. *Retina* 1988;8:257-60.
- [132] Younge BR, Rosenbaum TJ. Treatment of acute central retinal artery occlusion. *Mayo Clin Proc* 1978;53:408-10.
- [133] De La Paz MA, Patrinely JR, Marines HM, et al. Adjunctive hyperbaric oxygen in the treatment of bilateral cerebro-rhino-orbital mucormycosis. *Am J Ophthalmol* 1992;114:208-11.
- [134] Peyman GA, Gremillion Jr CM. Surgical removal of a branch retinal artery embolus: a case report. *Int Ophthalmol* 1990;14:295-8.
- [135] Watson PG. The treatment of acute retinal arterial occlusion. In: Cant JS, editor. *The William Mackenzie centenary symposium on the ocular circulation in health and disease*. St. Louis: CV Mosby; 1969. p. 234-45.
- [136] Blair NP, Baker DS, Rhode JP, et al. Vitreoperfusion; a new approach to ocular ischemia. *Arch Ophthalmol* 1989;107:417-23.
- [137] Jampol LM. Oxygen therapy and intraocular oxygenation. *Trans Am Ophthalmol Soc* 1987;85:407-37.
- [138] Vine AK, Maguire PT, Martonyi C, et al. Recombinant tissue plasminogen activator to lyse experimentally induced retinal arterial thrombi. *Am J Ophthalmol* 1988;105:266-70.
- [139] Rudkin AK, Lee AW, Chen CS. Central retinal artery occlusion: timing and mode of presentation. *Eur J Neurol* 2009;16:674-7.
- [140] Chen CS, Lee AW. Management of acute central retinal artery occlusion. *Nat Clin Pract Neurol* 2008;4:376-83.
- [141] Biousse V. Thrombolysis for acute central retinal artery occlusion: is it time? *Am J Ophthalmol* 2008;146:631-4.
- [142] Augsburger JJ, Magargal LE. Visual prognosis following treatment of acute central retinal artery obstruction. *Br J Ophthalmol* 1980;64:913-7.
- [143] Jorizzo PA, Klein ML, Shults WT, et al. Visual recovery in combined central retinal artery and central retinal vein occlusion. *Am J Ophthalmol* 1987;104:358-63.
- [144] Greven CM, Weaver RG, Harris WR. Transesophageal echocardiography for detecting mitral valve prolapse with retinal artery occlusions. *Am J Ophthalmol* 1991;111:103-4.
- [145] Wisotsky BJ, Engel HM. Transesophageal echocardiography in the diagnosis of branch retinal artery obstruction. *Am J Ophthalmol* 1993;115:653-6.
- [146] Campo RV, Aaberg TM. Digital subtraction angiography in the diagnosis of retinal vascular disease. *Am J Ophthalmol* 1983;96:632-40.
- [147] Shah HG, Brown GC, Goldberg RE. Digital subtraction carotid angiography and retinal arterial obstruction. *Ophthalmology* 1985;92:68-72.
- [148] Duker JS, Magargal LE, Stubbs GW. Quadrantic venous-stasis retinopathy secondary to an embolic branch retinal artery obstruction. *Ophthalmology* 1990;97:167-70.

- [149] Magargal LE, Sanborn GE, Zimmerman A. Venous stasis retinopathy associated with emboli obstruction of the central retinal artery. *J Clin Neuro-Ophthalmol* 1982;2:113-8.
- [150] Eckardt C, Götze O, Utermann D. Über die Lebenserwartung von Patienten mit Zirkulationsstörungen am hinteren Bulbusabschnitt. *Ophthalmologica* 1983;187:34-42.
- [151] Pfaffenbach DD, Hollenhorst RW. Morbidity and survivorship of patients with embolic cholesterol crystals in the ocular fundus. *Am J Ophthalmol* 1973;75:66-72.
- [152] Savino PJ, Glaser JS, Cassady J. Retinal stroke. Is the patient at risk? *Arch Ophthalmol* 1977;95:1185-9.
- [152A] Rudkin AK, Lee AW, Chen CS. Vascular risk factors for central retinal artery occlusion. *Eye* 2009;24:678-81.
- [153] Jahan R, Murayama Y, Gobin YP, et al. Embolization of arteriovenous malformations with Onyx: clinicopathological experience in 23 patients. *Neurosurgery* 2001;48:984-95. [discussion 995-7.]
- [154] Murayama Y, Vinuela F, Tateshima S, et al. Endovascular treatment of experimental aneurysms by use of a combination of liquid embolic agents and protective devices. *AJNR Am J Neuroradiol* 2000;21:1726-35.
- [155] Asouhidou I, Katsaridis V, Meng L, et al. Desaturation during Onyx embolization. *Br J Anaesth* 2010;105:385-6.
- [156] Jampol LM, Wong AS, Albert DM. Atrial myxoma and central retinal artery occlusion. *Am J Ophthalmol* 1973;75:242-9.
- [157] Kennedy RH, Flanagan JC, Eagle Jr RC, et al. The Carney complex with ocular signs suggestive of cardiac myxoma. *Am J Ophthalmol* 1991;111:699-702.
- [158] Lewis JM. Multiple retinal occlusions from a left atrial myxoma. *Am J Ophthalmol* 1994;117:674-5.
- [159] Matamoros N, BenEzra D. Bilateral retinopathy and encephalopathy. *Graefes Arch Clin Exp Ophthalmol* 1989;227:39-41.
- [160] Taylor RH, Deutsch J. Myxoma mix-up; a case report. *J Clin Neuro-Ophthalmol* 1992;12:207-9.
- [161] Tönz M, Laske A, Carrel T. Convulsions, hemiparesis, and central retinal artery occlusion due to left atrial myxoma in child. *Eur J Pediatr* 1992;151:652-4.
- [162] Yasuma F, Tsuzuki M, Yasuma T. Retinal embolism from left atrial myxoma. *Jpn Heart J* 1989;30:527-32.
- [163] Cogan DG, Wray SH. Vascular occlusions in the eye from cardiac myxomas. *Am J Ophthalmol* 1975;80:396-403.
- [164] Lee SY, Loo JL, Ang CL. Ischemic oculopathy as a complication of surgery for an atrial myxoma. *Arch Ophthalmol* 2004;122:130-1.
- [165] Rafuse PE, Nicollet DA, Hutnik CM, et al. Left atrial myxoma causing ophthalmic artery occlusion. *Eye (Lond)* 1997;11:25-9.
- [166] Tarkkanen A, Merenmies L, Mäkinen J. Embolism of the central retinal artery secondary to metastatic carcinoma. *Acta Ophthalmol* 1973;51:25-33.
- [167] Chuang EL, Miller III FS, Kalina RE. Retinal lesions following long bone fractures. *Ophthalmology* 1985;92:370-4.
- [168] DeVoe AG. Ocular fat embolism. A clinical and pathological report. *Trans Am Ophthalmol Soc* 1949;47:254-62.
- [169] Fritz MH, Hogan MJ. Fat embolization involving the human eye. *Am J Ophthalmol* 1948;31:527-34.
- [170] Hogan MJ, Zimmerman LE. *Ophthalmic pathology; an atlas and textbook*, 2nd ed. Philadelphia: WB Saunders; 1962. p. 492.
- [171] Kearns TP. Fat embolism of the retina; demonstrated by a flat retinal preparation. *Am J Ophthalmol* 1956;41:1-2.
- [172] Chaine G, Davies J, Kohner EM. Ophthalmologic abnormalities in the hypereosinophilic syndrome. *Ophthalmology* 1982;89:1348-56.
- [173] Weinstein JM, Chui H, Lane S. Churg-Strauss syndrome (allergic granulomatous angiitis); neuro-ophthalmologic manifestations. *Arch Ophthalmol* 1983;101:1217-20.
- [174] Cho YP, Kwon TW, Ahn JH, et al. Protein C and/or S deficiency presenting as peripheral arterial insufficiency. *Br J Radiol* 2005;78:601-5.
- [175] Loh BK, Lee SY, Goh KY. Protein S deficiency manifesting simultaneously as central retinal artery occlusion, oculomotor nerve palsy, and systemic arterial occlusive diseases. *Eye* 2007;21:684-6.
- [176] Greiner K, Hafner G, Dick B, et al. Retinal vascular occlusion and deficiencies in the protein C pathway. *Am J Ophthalmol* 1999;128:69-74.
- [177] Ambati J, Hanuch OE, Bresnick GH. Protein C and protein S deficiency associated with retinal, optic nerve, and cerebral ischaemia. *Br J Ophthalmol* 1999;83:754-5.
- [178] Vignes S, Wechsler B, Elmaleh C, et al. Retinal arterial occlusion associated with resistance to activated protein C. *Br J Ophthalmol* 1996;80:1111.
- [179] Greven CM, Weaver RG, Owen J, et al. Protein S deficiency and bilateral branch retinal artery occlusion. *Ophthalmology* 1991;98:33-4.
- [180] Golub BM, Sibony PA, Collier BS. Protein S deficiency associated with central retinal artery occlusion. *Arch Ophthalmol* 1990;108:918.
- [181] Nelson ME, Talbot JF, Preston FE. Recurrent multiple-branch retinal arteriolar occlusions in a patient with protein C deficiency. *Graefes Arch Clin Exp Ophthalmol* 1989;227:443-7.
- [182] Glenn AM, Shaw PJ, Howe JW, et al. Complicated migraine resulting in blindness due to bilateral retinal infarction. *Br J Ophthalmol* 1992;76:189-90.
- [183] Inkeles DM, Walsh JB. Retinal fat emboli as a sequela to acute pancreatitis. *Am J Ophthalmol* 1975;80:935-8.
- [184] Jacob HS, Craddock PR, Hammerschmidt DE, et al. Complement-induced granulocyte aggregation; an unsuspected mechanism of disease. *N Engl J Med* 1980;302:789-94.
- [185] Kincaid MC, Green WR, Knox DL, et al. A clinicopathological case report of retinopathy of pancreatitis. *Br J Ophthalmol* 1982;66:219-26.
- [186] Purtscher O. Noch unbekannte Befunde nach Schädeltrauma. *Ber Dtsch Ophthalmol Ges* 1911;36:294-301.
- [187] Purtscher O. Angiopathia retinae traumatica. Lymphorrhagien des Augengrundes. Albrecht von Graefes *Arch Ophthalmol* 1912;82:347-71.
- [188] Shapiro I, Jacob HS. Leukoembolization in ocular vascular occlusion. *Ann Ophthalmol* 1982;14:60-2.
- [189] Snady-McCoy L, Morse PH. Retinopathy associated with acute pancreatitis. *Am J Ophthalmol* 1985;100:246-51.
- [190] Farmer SG, Kinyoun JL, Nelson JL, et al. Retinal vasculitis associated with autoantibodies to Sjögren's syndrome A antigen. *Am J Ophthalmol* 1985;100:814-21.
- [191] Levine SR, Crofts JW, Lesser GR. Visual symptoms associated with the presence of a lupus anticoagulant. *Ophthalmology* 1988;95:686-92.
- [192] Wong K, Ai E, Jones JV, et al. Visual loss as the initial symptom of systemic lupus erythematosus. *Am J Ophthalmol* 1981;92:238-44.
- [193] Arora N, Lambrou Jr FH, Stewart MW. Sudden blindness associated with central nervous system symptoms in a hemodialysis patient. *Nephron* 1991;59:490-2.
- [194] Sullivan KL, Brown GC, Forman AR. Retrobulbar anesthesia and retinal vascular obstruction. *Ophthalmology* 1983;90:373-7.
- [195] Siegler RL, Brewer ED, Swartz M. Ocular involvement in hemolytic-uremic syndrome. *J Pediatr* 1988;112:594-7.
- [196] Gum KB, Carter KD, Vine AK. Massive bilateral retinal vascular

- occlusion secondary to thrombotic thrombocytopenic purpura. *Retina* 1988;8:185-7.
- [197] Ong T, Nolan W, Jagger J. Purtscher-like retinopathy as an initial presentation of thrombotic thrombocytopenic purpura: a case report. *Eye* 2005;19:359-61.
- [198] Patel MR, Bains AK, O'Hara JP, et al. Purtscher retinopathy as the initial sign of thrombotic thrombocytopenic purpura/hemolytic uremic syndrome. *Arch Ophthalmol* 2001;119:1388-9.
- [199] Tajunisah I, Patel DK, Subrayan V. Purtscher retinopathy as an initial presentation of thrombotic thrombocytopenic purpura. *J Thromb Thrombolysis* 2009;30:112-3.
- [200] Okwuosa TM, Lee EW, Starosta M, et al. Purtscher-like retinopathy in a patient with adult-onset Still's disease and concurrent thrombotic thrombocytopenic purpura. *Arthritis Rheum* 2007;57:182-5.
- [201] Blodi BA, Johnson MW, JDM Gass. Purtscher's-like retinopathy after childbirth. *Ophthalmology* 1990;97:1654-9.
- [202] Chang M, Herbert WNP. Retinal arteriolar occlusions following amniotic fluid embolism. *Ophthalmology* 1984;91:1634-7.
- [203] Fischbein FI. Ischemic retinopathy following amniotic fluid embolism. *Am J Ophthalmol* 1969;67:351-7.
- [204] Stewart MW, Brazis PW, Guier CP, et al. Purtscher-like retinopathy in a patient with HELLP syndrome. *Am J Ophthalmol* 2007;143:886-7.
- [205] Roden D, Fitzpatrick G, O'Donoghue H, et al. Purtscher's retinopathy and fat embolism. *Br J Ophthalmol* 1989;73:677-9.
- [206] Nayak H, Harun S, Palimar P. Purtscher's retinopathy after fracture dislocation of shoulder joint. *Emerg Med J* 2005;22:831-2.
- [207] Kozlowski JMD, Peters AL. Purtscher's-like retinopathy associated with a cardiac aneurysm. *Arch Ophthalmol* 1992;110:880-1.
- [208] Parc C. Purtscher-like retinopathy as an initial presentation of a thrombotic microangiopathy associated with antineoplastic therapy. *Am J Hematol* 2007;82:486-8.
- [209] Banach MJ, Williams GA. Purtscher retinopathy and necrotizing vasculitis with gemcitabine therapy. *Arch Ophthalmol* 2000;118:726-7.
- [210] Lemagne J-M, Michiels X, Van Causenbroeck S, et al. Purtscher-like retinopathy after retrobulbar anesthesia. *Ophthalmology* 1990;97:859-61.
- [211] Lim BA, Ang CL. Purtscher-like retinopathy after retrobulbar injection. *Ophthalmic Surg Lasers* 2001;32:477-8.
- [212] Blodi BA, Williams CA. Purtscher-like retinopathy after uncomplicated administration of retrobulbar anesthesia. *Am J Ophthalmol* 1997;124:702-3.
- [213] Burton TC. Unilateral Purtscher's retinopathy. *Ophthalmology* 1980;87:1096-105.
- [214] Goldstein IM, Cala D, Radin A. Evidence of complement catabolism in acute pancreatitis. *Am J Med Sci* 1978;275:257-64.
- [215] Mellembakken JR, Aukrust P, Olafsen MK, et al. Activation of leukocytes during the uteroplacental passage in preeclampsia. *Hypertension* 2002;39:155-60.
- [216] Shaw Jr HE, Osher RH, Smith JL. Amaurosis fugax associated with SC hemoglobinopathy and lupus erythematosus. *Am J Ophthalmol* 1979;87:281-5.
- [217] Bruce GM. Retinitis in dermatomyositis. *Trans Am Ophthalmol Soc* 1938;36:282-97.
- [218] Cohen BH, Sedwick LA, Burde RM. Retinopathy of dermatomyositis. *J Clin Neuro-Ophthalmol* 1985;5:177-9.
- [219] Coppeto J, Lessell S. Retinopathy in systemic lupus erythematosus. *Arch Ophthalmol* 1977;95:794-7.
- [220] Dougal MA, Evans LS, McClellan KR, et al. Central retinal artery occlusion in systemic lupus erythematosus. *Ann Ophthalmol* 1983;15:38-40.
- [221] Gold D, Feiner L, Henkind P. Retinal arterial occlusive disease in systemic lupus erythematosus. *Arch Ophthalmol* 1977;95:1580-5.
- [222] Graham EM, Spalton DJ, Barnard RO. Cerebral and retinal vascular changes in systemic lupus erythematosus. *Ophthalmology* 1985;92:444-8.
- [223] Jabs DA, Fine SL, Hochberg MC. Severe retinal vaso-occlusive disease in systemic lupus erythematosus. *Arch Ophthalmol* 1986;104:558-63.
- [224] Liebman S, Cook C, Donaldson DD. Retinopathy with dermatomyositis. *Arch Ophthalmol* 1965;74:704-5.
- [225] Provost TT, Reichlin M. Antinuclear antibody-negative systemic lupus erythematosus. I. Anti-Ro (SSA) and anti-La (SSB) antibodies. *J Am Acad Dermatol* 1981;4:84-9.
- [226] Reichlin M, Wasicek CA. Clinical and biologic significance of antibodies to Ro/SSA. *Hum Pathol* 1983;14:401-5.
- [227] Snyers B, Lambert M, Hardy J-P. Retinal and choroidal vaso-occlusive disease in systemic lupus erythematosus associated with antiphospholipid antibodies. *Retina* 1990;10:255-60.
- [228] Solomon SM, Solomon JH. Bilateral central retinal artery occlusions in polyarteritis nodosa. *Ann Ophthalmol* 1978;10:567-9.
- [229] Stoumbos VD, Klein ML, Goodman S. Purtscher's-like retinopathy in chronic renal failure. *Ophthalmology* 1992;99:1833-9.
- [230] Cordes FC, Aiken SD. Ocular changes in acute disseminated lupus erythematosus; report of a case with microscopic findings. *Am J Ophthalmol* 1947;30:1541-55.
- [231] Diddie KR, Aronson AJ, Ernest JT. Chorioretinopathy in a case of systemic lupus erythematosus. *Trans Am Ophthalmol Soc* 1977;75:122-31.
- [232] Hammami H, Streiff EB. Altérations vasculaires rétinienne dans un cas de lupus érythémateux disséminé; Evolution après traitement aux immunosuppresseurs. *Ophthalmologica* 1973;166:16-35.
- [233] Karpik AG, Schwartz MM, Dickey LE. Ocular immune reactants in patients dying with systemic lupus erythematosus. *Clin Immunol Immunopathol* 1985;35:295-312.
- [234] Koffle D, Bieserber G. Immunopathogenesis of tissue injury. In: Schur PH, editor. *The clinical management of systemic lupus erythematosus*. New York: Grune & Stratton; 1983. p. 29.
- [235] Nichols CJ, Mieler WF. Severe retinal vaso-occlusive disease secondary to procainamide-induced lupus. *Ophthalmology* 1989;96:1535-40.
- [236] Vine AK, Barr CC. Proliferative lupus retinopathy. *Arch Ophthalmol* 1984;102:852-4.
- [237] Bishko F. Retinopathy in systemic lupus erythematosus; a case report and review of the literature. *Arthritis Rheum* 1972;15:57-63.
- [238] Kincaid MC, Green WR, Knox DL, et al. A clinicopathological case report of retinopathy of pancreatitis. *Br J Ophthalmol* 1982;66:219-26.
- [239] Jampol LM, Rabb MF. Vasoocclusive diseases of the posterior pole. *Int Ophthalmol Clin* 1981;21:201-13.
- [240] Friberg TR, Gragoudas ES, Regan CDJ. Talc emboli and macular ischemia in intravenous drug abuse. *Arch Ophthalmol* 1979;97:1089-91.
- [241] Kaga N, Tso MOM, Jampol LM. Talc retinopathy in primates: a model of ischemic retinopathy. III. An electron microscopic study. *Arch Ophthalmol* 1982;100:1649-57.
- [242] Kresca LJ, Goldberg MF, Jampol LM. Talc emboli and retinal neovascularization in a drug abuser. *Am J Ophthalmol* 1979;87:334-9.
- [243] Murphy SB, Jackson WB, Pare JAP. Talc retinopathy. *Can J*

- Ophthalmol 1978;13:152-6.
- [244] Schatz H, Drake M. Self-injected retinal emboli. *Ophthalmology* 1979;86:468-83.
- [245] Tse DT, Ober RR. Talc retinopathy. *Am J Ophthalmol* 1980;90:624-40.
- [246] Brucker AJ. Disk and peripheral retinal neovascularization secondary to talc and cornstarch emboli. *Am J Ophthalmol* 1979;88:864-7.
- [247] Sharma MC, Ho AC. Macular fibrosis associated with talc retinopathy. *Am J Ophthalmol* 1999;128:517-9.
- [248] Jampol LM, Setogawa T, Rednam KRV, et al. Talc retinopathy in primates; a model of ischemic retinopathy. I. Clinical studies. *Arch Ophthalmol* 1981;99:1273-80.
- [249] Kaga N, Tso MOM, Jampol LM. Talc retinopathy in primates: a model of ischemic retinopathy. II. A histopathologic study. *Arch Ophthalmol* 1982;100:1644-8.
- [250] Tarantola R, Reichstein D, Morrison D, et al. Talc retinopathy presenting as multiple retinal arteriolar occlusions. *Retinal Cases Brief Rep* 2010;4:120-2.
- [251] Michelson JB, Whitcher JP, Wilson S, et al. Possible foreign body granuloma of the retina associated with intravenous cocaine addiction. *Am J Ophthalmol* 1979;87:278-80.
- [252] Siepser SB, Magargal LE, Augsburger JJ. Acute bilateral retinal microembolization in a heroin addict. *Ann Ophthalmol* 1981;13:699-702.
- [253] Wallace RT, Brown GC, Benson W, et al. Sudden retinal manifestations of intranasal cocaine and methamphetamine abuse. *Am J Ophthalmol* 1992;114:158-60.
- [254] Kumar RL, Kaiser PK, Lee MS. Crystalline retinopathy from nasal ingestion of methamphetamine. *Retina* 2006;26:823-4.
- [255] Rush JA, Kearns TP, Danielson GK. Cloth-particle retinal emboli from artificial cardiac valves. *Am J Ophthalmol* 1980;89:845-50.
- [256] Byers B. Blindness secondary to steroid injections into the nasal turbinates. *Arch Ophthalmol* 1979;97:79-80.
- [257] Ellis PP. Occlusion of the central retinal artery after retrobulbar corticosteroid injection. *Am J Ophthalmol* 1978;85:352-6.
- [258] Garland PE, Crandall AS, Creel DJ. Visual disturbance resulting from intranasal steroid injection. *Arch Ophthalmol* 1989;107:22-3.
- [259] Mieler WF, Bennett SR, Platt LW, et al. Localized retinal detachment with combined central retinal artery and vein occlusion after retrobulbar anesthesia. *Retina* 1990;10:278-83.
- [260] Ruttum MS, Abrams GW, Harris GJ, et al. Bilateral retinal embolization associated with intraslesional corticosteroid injection for capillary hemangioma of infancy. *J Pediatr Ophthalmol Strabismus* 1993;30:4-7.
- [261] Shorr N, Seiff SR. Central retinal artery occlusion associated with periocular corticosteroid injection for juvenile hemangioma. *Ophthalmic Surg* 1986;17:229-31.
- [262] Thomas EL, Laborde RP. Retinal and choroidal vascular occlusion following intraslesional corticosteroid injection of a chalazion. *Ophthalmology* 1986;93:405-7.
- [263] Wesley RE, Johnston DT, Gutow GS. Central retinal artery occlusion. *Ophthalmic Surg* 1987;18:123-5.
- [264] Wilkinson WS, Morgan CM, Baruh E, et al. Retinal and choroidal vascular occlusion secondary to corticosteroid embolisation. *Br J Ophthalmol* 1989;73:32-4.
- [265] Wilson RS, Havener WH, McGrew RN. Bilateral retinal artery and choriocapillaris occlusion following the injection of long-acting corticosteroid suspensions in combination with other drugs. I. Clinical studies. *Ophthalmology* 1978;85:967-73.
- [266] Evans DE, Zahorchak JA, Kennerdell JS. Visual loss as a result of primary optic nerve neuropathy after intranasal corticosteroid injection. *Am J Ophthalmol* 1980;90:641-4.
- [267] Martin PA, Church CA, Petti Jr GH, et al. Visual loss after intratubinate steroid injection. *Otolaryngol Head Neck Surg* 2003;128:280-1.
- [268] Moshfeghi DM, Lowder CY, Roth DB, et al. Retinal and choroidal vascular occlusion after posterior sub-tenon triamcinolone injection. *Am J Ophthalmol* 2002;134:132-4.
- [269] Gupta V, Sharma SC, Gupta A, et al. Retinal and choroidal microvascular embolization with methylprednisolone. *Retina* 2002;22:382-6.
- [270] Wilson RS, McGrew RN, White HJ. Bilateral retinal artery and choriocapillaris occlusion following the injection of long-acting corticosteroid suspensions in combination with other drugs. II. Animal experimental studies. *Ophthalmology* 1978;85:975-85.
- [271] Dreizen NG, Framm L. Sudden unilateral visual loss after autologous fat injection into the glabellar area. *Am J Ophthalmol* 1989;107:85-7.
- [272] Mames RN, Snady-McCoy L, Guy J. Central retinal and posterior ciliary artery occlusion after particle embolization of the external carotid artery system. *Ophthalmology* 1991;98:527-31.
- [273] Greven CM, van Rens E, Slusher MM. Branch retinal artery occlusion after platelet transfusion. *Am J Ophthalmol* 1990;109:105-6.
- [274] Sachsenweger R. Luftembolie und Auge. *Klin Monatsbl Augenheilkd* 1957;130:813-23.
- [275] Brancato R, Pece A, Carassa R. Central retinal artery occlusion after local anesthesia for blepharoplasty. *Graefes Arch Clin Exp Ophthalmol* 1991;229:593-4.
- [276] Hogan MJ, Alvarado JA, Weddell JE. *Histology of the human eye; an atlas and textbook*. Philadelphia: WB Saunders; 1971. p. 508-19.
- [277] Strassman I, Silverstone BZ, Seelenfreund MH. Essential thrombocythemia: a rare cause of central retinal artery occlusion. *Metab Pediatr Syst Ophthalmol* 1991;14:18-20.
- [278] Percival SPB. The eye and Moschcowitz's disease (thrombotic thrombocytopenic purpura); a review of 182 cases. *Trans Ophthalmol Soc UK* 1970;90:375-82.
- [279] van den Berg W, Verbraak FD, Bos PJM. Homocystinuria presenting as central retinal artery occlusion and longstanding thromboembolic disease. *Br J Ophthalmol* 1990;74:696-7.
- [280] Wenzler EM, Rademakers AJJM, Boers GHJ. Hyperhomocysteinemia in retinal artery and retinal vein occlusion. *Am J Ophthalmol* 1993;115:162-7.
- [281] Asherson RA. Letter. *Retina* 1989;9:155-6.
- [282] Jonas J, Kölbl K, Völcker HE, et al. Central retinal artery occlusion in Sneddon's disease associated with antiphospholipid antibodies. *Am J Ophthalmol* 1986;102:37-40.
- [283] Kleiner RC, Najarian LV, Schatten S. Vaso-occlusive retinopathy associated with antiphospholipid antibodies (lupus anticoagulant retinopathy). *Ophthalmology* 1989;96:896-904.
- [284] Pulido JS, Ward LM, Fishman GA. Antiphospholipid antibodies associated with retinal vascular disease. *Retina* 1987;7:215-8.
- [285] Lightman DA, Brod RD. Branch retinal artery occlusion associated with Lyme disease. *Arch Ophthalmol* 1991;109:1198-9.
- [286] Bernauer W, Gratwohl A. Bone marrow transplant retinopathy. *Am J Ophthalmol* 1992;113:604-5.
- [287] Bray LC, Carey PJ, Proctor SJ. Ocular complications of bone marrow transplantation. *Br J Ophthalmol* 1991;75:611-4.
- [288] Lopez PF, Sternberg Jr P, Dabbs CK. Bone marrow transplant retinopathy. *Am J Ophthalmol* 1991;112:635-46.
- [289] Stuckenschneider BJ, Mieler WF. Ocular findings following bone marrow transplantation. (Scientific poster 250). *Ophthalmology* 1992;99(Suppl):152.
- [290] Coskuncan NM, Jabs DA, Dunn JP. The eye in bone marrow



- transplantation. VI. Retinal complications. *Arch Ophthalmol* 1994;112:372-9.
- [291] Parsons MR, Merritt DR, Ramsay RC. Retinal artery occlusion associated with tranexamic acid therapy. *Am J Ophthalmol* 1988;105:688-9.
- [292] Braunstein RA, Gass JDM. Branch artery obstruction caused by acute toxoplasmosis. *Arch Ophthalmol* 1980;98:512-3.
- [293] Dagi LR, Currie J. Branch retinal artery occlusion in the Churg-Strauss syndrome. *J Clin Neuro-Ophthalmol* 1985;5:229-37.
- [294] Font RL, Mehta RS, Streusand SB. Bilateral retinal ischemia in Kawasaki disease; postmortem findings and electron microscopic observations. *Ophthalmology* 1983;90:569-77.
- [295] Perry HD, Mallen FJ, Wright Jr GD, et al. Retinal arteriolar occlusion in multiple sclerosis. *Ann Ophthalmol* 1986;18:168-70.
- [296] Ashton N, Coomes EN, Garner A, et al. Retinopathy due to progressive systemic sclerosis. *J Pathol Bacteriol* 1968;96:259-68.
- [297] Capone Jr A, Meredith TA. Profound central visual loss and ocular neovascularization in idiopathic recurrent branch retinal arterial occlusion. *Retina* 1990;10:265-8.
- [298] Digre KB, Blodi CF, Bale JB. Cytomegalovirus infection in a healthy adult associated with recurrent branch retinal artery occlusion. *Retina* 1987;7:230-2.
- [299] Gass JDM, Tiedemann J, Thomas MA. Idiopathic recurrent branch retinal arterial occlusion. *Ophthalmology* 1986;93:1148-57.
- [300] Johnson MW, Flynn Jr HW, Gass JDM. Idiopathic recurrent branch retinal arterial occlusion. *Arch Ophthalmol* 1989;107:757.
- [301] Johnson MW, Thomley ML, Huang SS, et al. Idiopathic recurrent branch retinal artery occlusion; natural history and laboratory evaluation. *Ophthalmology* 1994;101:480-9.
- [302] Lusky M, Wysenbeek Y, Weinberger D, et al. Idiopathic bilateral branch-artery occlusion in a young woman. *Ann Ophthalmol* 1989;21:170-2.
- [303] Kayazawa F, Sonoda K. Segmental retinal periarteritis with branch arterial occlusion. *Ann Ophthalmol* 1983;15:584-6.
- [304] Egan RA, Hills WL, Susac JO. Gass plaques and fluorescein leakage in Susac Syndrome. *J Neurol Sci* 2010;299:97-100.
- [305] Susac JO, Egan RA, Rennebohm RM, et al. Susac's syndrome: 1975-2005 microangiopathy/autoimmune endotheliopathy. *J Neurol Sci* 2007;257:270-2.
- [306] Egan RA, Ha Nguyen T, Gass JD, et al. Retinal arterial wall plaques in Susac syndrome. *Am J Ophthalmol* 2003;135:483-6.
- [307] Hanscom TA. Indirect treatment of peripheral retinal neovascularization. *Am J Ophthalmol* 1982;93:88-91.
- [308] Jampol LM, Isenberg SJ, Goldberg MF. Occlusive retinal arteriolitis with neovascularization. *Am J Ophthalmol* 1976;81:583-9.
- [309] Pawate S, Agarwal A, Moses H, et al. The spectrum of Susac's syndrome. *Neurol Sci* 2009;30:59-64.
- [310] Allmendinger AM, Spektor V, Destian S. CT and MR imaging of Susac syndrome in a young male presenting with acute disorientation. *Clin Imaging* 2010;34:138-42.
- [311] Jarius S, Neumayer B, Wandinger KP, et al. Anti-endothelial serum antibodies in a patient with Susac's syndrome. *J Neurol Sci* 2009;285:259-61.
- [312] Susac JO. Susac's syndrome: the triad of microangiopathy of the brain and retina with hearing loss in young women. *Neurology* 1994;44:591-3.
- [313] Rennebohm RM, Lubow M, Rusin J, et al. Aggressive immunosuppressive treatment of Susac's syndrome in an adolescent: using treatment of dermatomyositis as a model. *Pediatr Rheumatol Online J* 2008;6:3.
- [314] Rennebohm RM, Egan RA, Susac JO. Treatment of Susac's Syndrome. *Curr Treat Options Neurol* 2008;10:67-74.
- [315] Conomy JP, Kellermeyer RW. Delayed cerebrovascular consequences of therapeutic radiation; a clinicopathologic study of a stroke associated with radiation-related carotid arteriopathy. *Cancer* 1975;36:1702-8.
- [316] Evans LS, Van de Graaff WB, Baker WH, et al. Central retinal artery occlusion after neck irradiation. *Am J Ophthalmol* 1992;114:224-5.
- [317] Irvine AR, Alvarado JA, Wara WM. Radiation retinopathy: an experimental model for the ischemic-proliferative retinopathies. *Trans Am Ophthalmol Soc* 1981;79:103-22.
- [318] Fisher M. Transient monocular blindness associated with hemiplegia. *Arch Ophthalmol* 1952;47:167-203.
- [319] Humphrey WT. Central retinal artery spasm. *Ann Ophthalmol* 1979;11:877-81.
- [320] Katz B. Migrainous central retinal artery occlusion. *J Clin Neuro-Ophthalmol* 1986;6:69-71.
- [321] Victor DI, Welch RB. Bilateral retinal hemorrhages and disk edema in migraine. *J Ophthalmol* 1977;84:555-8.
- [322] Wolter JR, Burchfield WJ. Ocular migraine in a young man resulting in unilateral transient blindness and retinal edema. *J Pediatr Ophthalmol* 1971;8:173-6.
- [323] Gray JA, Carroll JD. Retinal artery occlusion in migraine. *Postgrad Med J* 1985;61:517-8.
- [324] Grosberg BM, Solomon S, Friedman DI, et al. Retinal migraine reappraised. *Cephalgia* 2006;26:1275-86.
- [325] Doyle E, Vote BJ, Casswell AG. Retinal migraine: caught in the act. *Br J Ophthalmol* 2004;88:301-2.
- [326] Hykin PG, Gartry D, Brazier DJ, et al. Bilateral cilio-retinal artery occlusion in classic migraine. *Postgrad Med J* 1991;67:282-4.
- [327] Daroff RB. Retinal migraine. *J Neuro-Ophthalmol* 2007;27:83.
- [328] Grosberg BM, Solomon S. Retinal migraine: two cases of prolonged but reversible monocular visual defects. *Cephalgia* 2006;26:754-7.
- [329] Beversdorf D, Stommel E, Allen C, et al. Recurrent branch retinal infarcts in association with migraine. *Headache* 1997;37:396-9.
- [330] Brown GC, Tasman WS. Retinal arterial obstruction in association with presumed *Toxocara canis* neuroretinitis. *Ann Ophthalmol* 1981;13:1385-7.
- [331] Kelly PW, May DR. Central retinal artery occlusion following cosmetic blepharoplasty. *Br J Ophthalmol* 1980;64:918-22.
- [332] Gupta A, Jalali S, Bansal RK, et al. Anterior ischemic optic neuropathy and branch retinal artery occlusion in cavernous sinus thrombosis. *J Clin Neuro-Ophthalmol* 1990;10:193-6.
- [333] Baker RS, Buncic JR. Sudden visual loss in pseudotumor cerebri due to central retinal artery occlusion. *Arch Neurol* 1984;41:1274-6.
- [334] Lam BL, Siatkowski RM, Fox GM, et al. Visual loss in pseudotumor cerebri from branch retinal artery occlusion. *Am J Ophthalmol* 1992;113:334-6.
- [335] Newman NJ, Lessell S, Brandt EM. Bilateral central retinal artery occlusions, disk drusen, and migraine. *Am J Ophthalmol* 1989;107:236-40.
- [336] McLeod D. Cilio-retinal arterial circulation in central retinal vein occlusion. *Br J Ophthalmol* 1975;59:486-92.
- [337] Gass JDM, Trattler HL. Retinal artery obstruction and atheromas associated with non-Hodgkin's large cell lymphoma (reticulum cell sarcoma). *Arch Ophthalmol* 1991;109:1134-9.
- [338] Schaible ER, Golnik KC. Combined obstruction of the central retinal artery and vein with meningeal carcinomatosis. *Arch Ophthalmol* 1993;111:1467-8.
- [339] Jarrett WH, Brockhurst RJ. Unexplained blindness and optic atrophy following retinal detachment surgery. *Arch Ophthalmol*

- 1965;73:782-91.
- [340] Levin ML, O'Connor PS, Aguirre G, et al. Angiographically normal central retinal artery following the total resection of an optic nerve glioma. *J Clin Neuro-Ophthalmol* 1986;6:1-8.
- [341] Duker JS, Cohen MS, Brown GC. Combined branch retinal artery and central retinal vein obstruction. *Retina* 1990;10:105-12.
- [342] Schatz H, Fong ACO, McDonald HR. Cilioretinal artery occlusion in young adults with central retinal vein occlusion. *Ophthalmology* 1991;98:594-601.
- [343] Fehér J, Antal M. Ischemic retinal alterations in cardiac arrest. *Ann Ophthalmol* 1979;11:909-13.
- [344] Locastro A, Novak KD, Biglan AW. Central retinal artery occlusion in a child after general anesthesia. *Am J Ophthalmol* 1991;112:91-2.
- [345] Stambough JL, Cheeks ML. Central retinal artery occlusion; a complication of the knee-chest position. *J Spinal Disord* 1992;5:363-5.
- [346] Brown GC, Magargal LE, Sergott R. Acute obstruction of the retinal and choroidal circulations. *Ophthalmology* 1986;93:1373-82.
- [347] McLeod D, Oji EO, Kohner EM, et al. Fundus signs in temporal arteritis. *Br J Ophthalmol* 1978;62:591-4.
- [348] Duker JS, Belmont JB. Ocular ischemic syndrome secondary to carotid artery dissection. *Am J Ophthalmol* 1988;106:750-2.
- [349] Meire FM, De Laey JJ, van Thienen MN, et al. Retinal manifestations in fibromuscular dysplasia. *Eur J Ophthalmol* 1991;1:63-8.
- [350] Trobe JD. Carotid endarterectomy. Who needs it? *Ophthalmology* 1987;94:725-30.
- [351] Tanaka T, Shimizu K. Retinal arteriovenous shunts in Takayasu disease. *Ophthalmology* 1987;94:1380-8.
- [352] Lewis JR, Glaser JS, Schatz NJ, et al. Pulseless (Takayasu) disease with ophthalmic manifestations. *J Clin Neuro-Ophthalmol* 1993;13:242-9.
- [353] Kahn M, Knox DL, Green WR. Clinicopathologic studies of a case of aortic arch syndrome. *Retina* 1986;6:228-33.
- [354] Qingli L, Orcutt JC, Seifter LS. Orbital mucormycosis with retinal and ciliary artery occlusions. *Br J Ophthalmol* 1989;73:680-3.
- [355] Cho N, Han H. Central retinal artery occlusion after varicella. *Am J Ophthalmol* 1992;114:235-6.
- [356] Matzkin DC, Slamovits TL, Sachs R, et al. Visual recovery in two patients after intravenous methylprednisolone treatment of central retinal artery occlusion secondary to giant-cell arteritis. *Ophthalmology* 1992;99:68-71.
- [357] Purvin V, Hrisomalos N, Dunn D. Varicella optic neuritis. *Neurology* 1988;38:501-3.
- [358] Kahn M, Green WR, Knox DL, et al. Ocular features of carotid occlusive disease. *Retina* 1986;6:239-52.
- [359] Kearns TP. Ophthalmology and the carotid artery. *Am J Ophthalmol* 1979;88:714-22.
- [360] Kearns TP, Hollenhorst RW. Venous-stasis retinopathy of occlusive disease of the carotid artery. *Proc Staff Mtg Mayo Clin* 1963;38:304-12.
- [361] MacFadyen DJ, Schneider RJ, Chisholm IA. A syndrome of brain, inner ear, and retinal microangiopathy. *Can J Neurol Sci* 1987;14:315-8.
- [362] McCrary III JA. Venous stasis retinopathy of stenotic or occlusive origin. *J Clin Neuro-Ophthalmol* 1989;9:195-9.
- [363] Brown GC. Macular edema in association with severe carotid artery obstruction. *Am J Ophthalmol* 1986;102:442-8.
- [364] Campo RV, Reeser FH. Retinal telangiectasia secondary to bilateral carotid artery occlusion. *Arch Ophthalmol* 1983;101:1211-3.
- [365] Knox DL. Ischemic ocular inflammation. *Am J Ophthalmol* 1965;60:995-1002.
- [366] Mills RP. Anterior segment ischemia secondary to carotid occlusive disease. *J Clin Neuro-Ophthalmol* 1989;9:200-4.
- [367] Neupert JR, Brubaker RF, Kearns TP, et al. Rapid resolution of venous stasis retinopathy after carotid endarterectomy. *Am J Ophthalmol* 1976;81:600-2.
- [368] Sugiyama K, Ijiri S, Tagawa S, et al. Takayasu disease on the centenary of its discovery. *Jpn J Ophthalmol* 2009;53:81-91.
- [369] Sagar S, Kar S, Gupta A, et al. Ocular changes in Takayasu's arteritis in India. *Jpn J Ophthalmol* 1994;38:97-102.
- [370] Bodker FS, Tessler HH, Shapiro MJ. Ocular complications of Takayasu's disease in a Hispanic woman. *Am J Ophthalmol* 1993;115:676-7.
- [371] Tanaka T, Shimizu K. Retinal arteriovenous shunts in Takayasu disease. *Ophthalmology* 1987;94:1380-8.
- [372] Jain S, Sharma N, Singh S, et al. Takayasu arteritis in children and young Indians. *Int J Cardiol* 2000;75(Suppl. 1):S153-7.
- [373] Jain S, Kumari S, Ganguly NK, et al. Current status of Takayasu arteritis in India. *Int J Cardiol* 1996;54(Suppl.):S111-6.
- [374] Nastri MV, Baptista LP, Baroni RH, et al. Gadolinium-enhanced three-dimensional MR angiography of Takayasu arteritis. *Radiographics* 2004;24:773-86.
- [375] Tyagi S, Gupta MD, Singh P, et al. Percutaneous revascularization of sole arch artery for severe cerebral ischemia resulting from Takayasu arteritis. *J Vasc Interv Radiol* 2008;19:1699-703.
- [376] Shiya N, Matsuzaki K, Watanabe T, et al. Descending aorta to carotid bypass for takayasu arteritis as a redo operation. *Ann Thorac Surg* 2003;76:283-5.
- [377] Tyagi S, Verma PK, Gambhir DS, et al. Early and long-term results of subclavian angioplasty in aortoarteritis (Takayasu disease): comparison with atherosclerosis. *Cardiovasc Intervent Radiol* 1998;21:219-24.
- [378] Tyagi S, Kaul UA, Nair M, et al. Balloon angioplasty of the aorta in Takayasu's arteritis: initial and long-term results. *Am Heart J* 1992;124:876-82.
- [379] Sharma S, Saxena A, Talwar KK, et al. Renal artery stenosis caused by nonspecific arteritis (Takayasu disease): results of treatment with percutaneous transluminal angioplasty. *AJR Am J Roentgenol* 1992;158:417-22.
- [380] Sawada T, Harino S, Ikeda T. Central retinal artery occlusion in a patient with fibromuscular dysplasia. *Retina* 2004;24:461-4.
- [381] Currie AD, Bentley CR, Bloom PA. Retinal haemorrhage and fatal stroke in an infant with fibromuscular dysplasia. *Arch Dis Child* 2001;84:263-4.
- [382] Warrasak S, Tapaneya-Olarn W, Euswas A, et al. Fibromuscular dysplasia: a rare cause of cilioretinal artery occlusion in childhood. *Ophthalmology* 2000;107:737-41.
- [383] Slovut DP, Olin JW. Fibromuscular dysplasia. *N Engl J Med* 2004;350:1862-71.
- [384] Petersen RA, Rosenthal A. Retinopathy and papilledema in cyanotic congenital heart disease. *Pediatrics* 1972;49:243-9.
- [385] VanderVeen DK, Pasquale LR, Fulton AB. Central retinal vein occlusion in a young child with cyanotic heart disease. *Arch Ophthalmol* 1997;115:1077.
- [386] Krarup JC. Atypical rubeosis iridis in congenital cyanotic heart disease. Report of a case with microhaemangiomas at the pupillary margin causing spontaneous hyphaemas. *Acta Ophthalmol (Copenh)* 1977;55:581-5.
- [387] Harino S, Motokura M, Nishikawa N. Chronic ocular ischemia associated with the Eisenmenger's syndrome. *Am J Ophthalmol* 1994;117:302-7.
- [388] Mathura Jr JR, Jampol LM. Medical mystery: visual-field defect - the answer. *N Engl J Med* 2006;355:2493.

- [389] Richards RD. Simultaneous occlusion of the central retinal artery and vein. *Trans Am Ophthalmol Soc* 1979;77:191-209.
- [390] McLeod D. Ophthalmoscopic signs of obstructed axoplasmic transport after ocular vascular occlusions. *Br J Ophthalmol* 1976;60:551-6.
- [391] McLeod D, Ring CP. Cilio-retinal infarction after retinal vein occlusion. *Br J Ophthalmol* 1976;60:419-27.
- [392] Klein R, Klein BEK, Moss SE, et al. Hypertension and retinopathy, arteriolar narrowing, and arteriovenous nicking in a population. *Arch Ophthalmol* 1994;112:92-8.
- [393] Daniels SR, Lipman MJ, Burke MJ, et al. The prevalence of retinal vascular abnormalities in children and adolescents with essential hypertension. *Am J Ophthalmol* 1991;111:205-8.
- [394] Dimmitt SB, West JNW, Eames SM. Usefulness of ophthalmoscopy in mild to moderate hypertension. *Lancet* 1989;1:1103-6.
- [395] Ashton N. The eye in malignant hypertension. *Trans Am Acad Ophthalmol Otolaryngol* 1972;38:17-40.
- [396] Ashton N, Dollery CT, Henkind P. Focal retinal ischaemia. *Br J Ophthalmol* 1966;50:283-384.
- [397] Ashton N, Harry J. The pathology of cotton wool spots and cytooid bodies in hypertensive retinopathy and other diseases. *Trans Ophthalmol Soc UK* 1963;83:91-114.
- [398] Brown GC, Brown MM, Hiller T. Cotton-wool-spots. *Retina* 1985;5:206-14.
- [399] de Venecia G, Jampol LM. The eye in accelerated hypertension. II. Localized serous detachments of the retina in patients. *Arch Ophthalmol* 1984;102:68-73.
- [400] de Venecia G, Wallow I, Houser D, et al. The eye in accelerated hypertension. I. Elschnig's spots in nonhuman primates. *Arch Ophthalmol* 1980;98:913-8.
- [401] Dollery CT, Ramalho PS, Paterson JW. Retinal microemboli; experimental production of "cotton-wool" spots. *Lancet* 1965;1:1303-4.
- [402] Donaldson DD. Retinopathy with dermatomyositis. *Arch Ophthalmol* 1965;74:704-5.
- [403] Gass JDM. A fluorescein angiographic study of macular dysfunction secondary to retinal vascular disease. III. Hypertensive retinopathy. *Arch Ophthalmol* 1968;80:569-82.
- [404] Goldbaum MH. Retinal depression sign indicating a small retinal infarct. *Am J Ophthalmol* 1978;86:45-55.
- [405] Henkind P. Ballotini occlusion of retinal arteries; collateral vessels. *Br J Ophthalmol* 1966;50:482-95.
- [406] Henkind P, Dollery CT. Pathophysiology of the retinal vascular bed following acute embolization. *Invest Ophthalmol* 1966;5:204-7.
- [407] Hodge JV, Dollery CT. Retinal soft exudates; a clinical study by colour and fluorescence photography. *Q J Med* 1964;33:117-31.
- [408] Lanham JG, Barrie T, Kohner EM, et al. SLE retinopathy: evaluation by fluorescein angiography. *Ann Rheum Dis* 1982;41:473-8.
- [409] Pfaffenbach DD, Hollenhorst RW. Microangiopathy of the retinal arterioles. *JAMA* 1973;225:480-3.
- [410] Tso MOM, Jampol LM. Pathophysiology of hypertensive retinopathy. *Ophthalmology* 1982;89:1132-45.
- [411] Walsh JB. Hypertensive retinopathy; description, classification, and prognosis. *Ophthalmology* 1982;89:1127-31.
- [412] Logan P, Eustace P, Robinson R. Hypertensive retinopathy: a cause of decreased visual acuity in children. *J Pediatr Ophthalmol Strabismus* 1992;29:287-9.
- [413] Schmidt D, Löffler KU. Elschnig's spots as a sign of severe hypertension. *Ophthalmologica* 1993;206:24-8.
- [414] Garner A, Ashton N, Tripathi R. Pathogenesis of hypertensive retinopathy; an experimental study in the monkey. *Br J Ophthalmol* 1975;59:3-44.
- [415] Kayazawa F, Honda A. Severe retinal vascular lesions in systemic lupus erythematosus. *Ann Ophthalmol* 1981;13:1291-4.
- [416] Nowinski T, Bernardino V, Naidoff M, et al. Ocular involvement in lupus erythematosus profundus (panniculitis). *Ophthalmology* 1982;89:1149-54.
- [417] Pollack IP, Becker B. Cytooid bodies of the retina in a patient with scleroderma. *Am J Ophthalmol* 1962;54:655-9.
- [418] Gold DH, Morris DA, Henkind P. Ocular findings in systemic lupus erythematosus. *Br J Ophthalmol* 1972;56:800-4.
- [419] Hayreh SS, Servais GE, Viridi PS. Fundus lesions in malignant hypertension. IV. Focal intraretinal periarteriolar transudates. *Ophthalmology* 1985;92:60-73.
- [420] Hayreh SS, Servais GE, Viridi PS. Fundus lesions in malignant hypertension. III. Arterial blood pressure, biochemical, and fundus changes. *Ophthalmology* 1985;92:45-59.
- [421] Hayreh SS, Servais GE, Viridi PS. Fundus lesions in malignant hypertension. V. Hypertensive optic neuropathy. *Ophthalmology* 1986;93:74-87.
- [422] Hayreh SS, Servais GE, Viridi PS. Fundus lesions in malignant hypertension. VI. Hypertensive choroidopathy. *Ophthalmology* 1986;93:1383-400.
- [423] Abdel-Khalek MN, Richardson J. Retinal macroaneurysm: natural history and guidelines for treatment. *Br J Ophthalmol* 1986;70:2-11.
- [424] Asdourian GK, Goldberg MF, Jampol L, et al. Retinal macroaneurysms. *Arch Ophthalmol* 1977;95:624-8.
- [425] Avins LR, Krummenacher TK. Valsalva maculopathy due to a retinal arterial macroaneurysm. *Ann Ophthalmol* 1983;15:421-3.
- [426] Cleary PE, Kohner EM, Hamilton AM, et al. Retinal macroaneurysms. *Br J Ophthalmol* 1975;59:355-61.
- [427] Fichte C, Streeten BW, Friedman AL. A histopathologic study of retinal arterial aneurysms. *Am J Ophthalmol* 1978;85:509-18.
- [428] Gass JDM. Options in the treatment of macular diseases. *Trans Ophthalmol Soc UK* 1972;92:449-68.
- [429] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 242.
- [430] Gold DH, La Piana FG, Zimmerman LE. Isolated retinal arterial aneurysms. *Am J Ophthalmol* 1976;82:848-57.
- [431] Khalil M, Lorenzetti DWC. Acquired retinal macroaneurysms. *Can J Ophthalmol* 1979;14:163-8.
- [432] Hudomel J, Imre G. Photocoagulation treatment of solitary aneurysm near the macula lutea; report of a case. *Acta Ophthalmol* 1973;51:633-8.
- [433] Lewis RA, Norton EWD, Gass JDM. Acquired arterial macroaneurysms of the retina. *Br J Ophthalmol* 1976;60:21-30.
- [434] Nadel AJ, Gupta KK. Macroaneurysms of the retinal arteries. *Arch Ophthalmol* 1976;94:1092-6.
- [435] Palestine AG, Robertson DM, Goldstein BG. Macroaneurysms of the retinal arteries. *Am J Ophthalmol* 1982;93:164-71.
- [436] Perry HD, Zimmerman LE, Benson WE. Hemorrhage from isolated aneurysm of a retinal artery; report of two cases simulating malignant melanoma. *Arch Ophthalmol* 1977;95:281-3.
- [437] Robertson DM. Macroaneurysms of the retinal arteries. *Trans Am Acad Ophthalmol Otolaryngol* 1973;77:OP55-67.
- [438] Shults WT, Swan KC. Pulsatile aneurysms of the retinal arterial tree. *Am J Ophthalmol* 1974;77:304-9.
- [439] Tassignon M-J, Stempels N, Van Mulders L. Retrohyaloid premacular hemorrhage treated by Q-switched Nd-YAG laser; a case report. *Graefes Arch Clin Exp Ophthalmol* 1989;27:440-2.
- [440] Van Nouhuys E, Deutman AF. Argon laser treatment of retinal macroaneurysms. *Int Ophthalmol* 1980;2:45-53.
- [441] Brown GC, Weinstock F. Arterial macroaneurysm on the

- optic disk presenting as a mass lesion. *Ann Ophthalmol* 1985;17:519-20.
- [442] Giuffrè G, Montalto FP, Amodei G. Development of an isolated retinal macroaneurysm of the cilioretinal artery. *Br J Ophthalmol* 1987;71:445-8.
- [443] Kowal L, Steiner H. Arterial macroaneurysm of the optic disc. *Aust NZ J Ophthalmol* 1991;19:75-7.
- [444] Rabb MF, Gagliano DA, Teske MP. Retinal arterial macroaneurysms. *Surv Ophthalmol* 1988;33:73-96.
- [445] Lavin MJ, Marsh RJ, Peart S, et al. Retinal arterial macroaneurysms: a retrospective study of 40 patients. *Br J Ophthalmol* 1987;71:817-25.
- [446] Pantan RW, Goldberg MF, Farber MD. Retinal arterial macroaneurysms: risk factors and natural history. *Br J Ophthalmol* 1990;74:595-600.
- [447] Psinakis A, Kokolakis S, Theodossiadis PG, et al. Macroanévrisme artériel rétinien pulsatile: Traitement par photocoagulation au laser argon. *J Fr Ophthalmol* 1989;12:673-6.
- [448] Hannappel S, Gerke E. Retinale Macroaneurysmen als Ursache für Einblutungen in den Glaskörperraum. *Fortschr Ophthalmol* 1989;86:337-8.
- [449] Tsujikawa A, Sakamoto A, Ota M, et al. Retinal structural changes associated with retinal arterial macroaneurysm examined with optical coherence tomography. *Retina* 2009;29:782-92.
- [450] Uemoto R, Mizuki N. Spontaneous closure of a macular hole caused by a ruptured retinal arterial macroaneurysm. *Eur J Ophthalmol* 2008;18:462-5.
- [451] Mitamura Y, Terashima H, Takeuchi S. Macular hole formation following rupture of retinal arterial macroaneurysm. *Retina* 2002;22:113-5.
- [452] Colucciello M, Nachbar JG. Macular hole following ruptured retinal arterial macroaneurysm. *Retina* 2000;20:94-6.
- [453] Vianna RN, Kassuga A, Onofre G, et al. Subretinal neovascularization following ruptured retinal arterial macroaneurysm: case report. *Arq Bras Oftalmol* 2007;70:698-700.
- [454] Wiznia RA. Development of a retinal artery macroaneurysm at the site of a previously detected retinal artery embolus. *Am J Ophthalmol* 1992;114:642-3.
- [455] Joondeph BC, Joondeph HC, Blair NP. Retinal macroaneurysms treated with yellow dye laser. *Retina* 1989;9:187-92.
- [456] Mainster MA, Whitacre MM. Dye yellow photocoagulation of retinal arterial macroaneurysms. *Am J Ophthalmol* 1988;105:97-8.
- [457] Russell SR, Folk JC. Branch retinal artery occlusion after dye yellow photocoagulation of an arterial macroaneurysm. *Am J Ophthalmol* 1987;104:186-7.
- [458] Hanscom TA, Diddie KR. Early surgical drainage of macular subretinal hemorrhage. *Arch Ophthalmol* 1987;105:1722.
- [459] Peyman GA, Nelson Jr NC, Alturki W. Tissue plasminogen activating factor assisted removal of subretinal hemorrhage. *Ophthalmic Surg* 1991;22:575-82.
- [460] Tan CS, Au Eong KG. Surgical drainage of submacular haemorrhage from ruptured retinal arterial macroaneurysm. *Acta Ophthalmol Scand* 2005;83:240-1.
- [461] Iijima H, Satoh S, Tsukahara S. Nd:YAG laser photodisruption for preretinal hemorrhage due to retinal macroaneurysm. *Retina* 1998;18:430-4.
- [462] Gass JDM. Fluorescein angiography in endogenous intraocular inflammation. In: Aronson SB, Gamble CN, Goodner EK, O'Connor, editors. *Clinical methods in uveitis; the fourth Sloan Symposium on Uveitis*. St. Louis: CV Mosby; 1968. p. 202-30.
- [463] Gass JDM, Norton EWD. Cystoid macular edema and papilledema following cataract extraction; a fluorescein fundoscopic and angiographic study. *Arch Ophthalmol* 1966;76:646-61.
- [464] Gass JDM, Norton EWD. Follow-up study of cystoid macular edema following cataract extraction. *Trans Am Acad Ophthalmol Otolaryngol* 1969;73:665-82.
- [465] Hitchings RA, Chisholm IH. Incidence of aphakic macular oedema; a prospective study. *Br J Ophthalmol* 1975;59:444-50.
- [466] Hoyt CS, Nickel B. Aphakic cystoid macular edema; occurrence in infants and children after transpupillary lensectomy and anterior vitrectomy. *Arch Ophthalmol* 1982;100:746-9.
- [467] Irvine AR, Bresky R, Crowder BM. Macular edema after cataract extraction. *Ann Ophthalmol* 1971;3:1234-40.
- [468] Irvine SR. A newly defined vitreous syndrome following cataract surgery: interpreted according to recent concepts of the structure of the vitreous. *Am J Ophthalmol* 1953;36:599-619.
- [469] Jacobson DR, Dellaporta A. Natural history of cystoid macular edema after cataract extraction. *Am J Ophthalmol* 1974;77:445-7.
- [470] Meredith TA, Kenyon KR, Singerman LJ, et al. Perifoveal vascular leakage and macular oedema after intracapsular cataract extraction. *Br J Ophthalmol* 1976;60:765-9.
- [471] Nicholls JVV. Macular edema in association with cataract extraction. *Am J Ophthalmol* 1954;37:665-72.
- [472] Norton AL, Brown WJ, Carlson M. Pathogenesis of aphakic macular edema. *Am J Ophthalmol* 1975;80:96-101.
- [473] Nussenblatt RB, Kaufman SC, Palestine AG. Macular thickening and visual acuity; measurement in patients with cystoid macular edema. *Ophthalmology* 1987;94:1134-9.
- [474] Sebag J, Balazs EA. Pathogenesis of cystoid macular edema: an anatomic consideration of vitreoretinal adhesions. *Surv Ophthalmol* 1984;28:493-8.
- [475] Epstein DL. Cystoid macular edema occurring 13 years after cataract extraction. *Am J Ophthalmol* 1977;83:501-3.
- [476] Klein RM, Yannuzzi L. Cystoid macular edema in the first week after cataract extraction. *Am J Ophthalmol* 1976;81:614-5.
- [477] Bovino JA, Kelly Jr TJ, Marcus DF. Intraretinal hemorrhages in cystoid macular edema. *Arch Ophthalmol* 1984;102:1151-2.
- [478] Gilbard SM, Peyman GA, Goldberg MF. Evaluation for cystoid maculopathy after pars plicata lensectomy-vitrectomy for congenital cataracts. *Ophthalmology* 1983;90:1201-6.
- [479] Poer DV, Helveston EM, Ellis FD. Aphakic cystoid macular edema in children. *Arch Ophthalmol* 1981;99:249-52.
- [480] Schulman J, Peyman GA, Raichand M, et al. Aphakic cystoid macular edema in children after vitrectomy for anterior segment injuries. *Ophthalmic Surg* 1983;14:848-51.
- [481] Blair NP, Elman MJ, Rusin MM. Vitreous fluorophotometry in patients with cataract surgery. *Graefes Arch Clin Exp Ophthalmol* 1987;225:441-6.
- [482] Martin NF, Green WR, Martin LW. Retinal phlebitis in the Irvine-Gass syndrome. *Am J Ophthalmol* 1977;83:377-86.
- [483] Fine BS, Brucker AJ. Macular edema and cystoid macular edema. *Am J Ophthalmol* 1981;92:466-81.
- [484] Gass JDM, Anderson DR, Davis EB. A clinical, fluorescein angiographic, and electron microscopic correlation of cystoid macular edema. *Am J Ophthalmol* 1985;100:82-6.
- [485] Pollack A, Leiba H, Bukelman A, et al. Cystoid macular oedema following cataract extraction in patients with diabetes. *Br J Ophthalmol* 1992;76:221-4.
- [486] Jampol LM. Cystoid macular edema following cataract surgery. *Arch Ophthalmol* 1988;106:894-5.
- [487] Wright PL, Wilkinson CP, Balyeat HD. Angiographic cystoid macular edema after posterior chamber lens implantation. *Arch Ophthalmol* 1988;106:740-4.
- [488] Steinert RF, Puliafito CA, Kumar SR. Cystoid macular edema, retinal detachment, and glaucoma after Nd:YAG laser posterior



- capsulotomy. *Am J Ophthalmol* 1991;112:373-80.
- [489] Lewis H, Singer TR, Hanscom TA, et al. A prospective study of cystoid macular edema after neodymium: YAG laser posterior capsulotomy. *Ophthalmology* 1987;94:478-82.
- [490] Jampol LM. Pharmacologic therapy of aphakic cystoid macular edema; a review. *Ophthalmology* 1982;89:891-7.
- [491] Jampol LM, Sanders DR, Kraff MC. Prophylaxis and therapy of aphakic cystoid macular edema. *Surv Ophthalmol* 1984;28:535-9.
- [492] Klein RM, Katzin HM, Yannuzzi LA. The effect of indomethacin pretreatment on aphakic cystoid macular edema. *Am J Ophthalmol* 1979;87:487-9.
- [493] Kraff MC, Sanders DR, Jampol LM, et al. Effect of primary capsulotomy with extracapsular surgery on the incidence of pseudophakic cystoid macular edema. *Am J Ophthalmol* 1984;98:166-70.
- [494] Miyake K. Indomethacin in the treatment of postoperative cystoid macular edema. *Surv Ophthalmol* 1984;28:554-68.
- [495] Miyake K, Miyake Y, Maekubo K. Incidence of cystoid macular edema after retinal detachment surgery and the use of topical indomethacin. *Am J Ophthalmol* 1983;95:451-6.
- [496] Yannuzzi LA, Klein RM, Wallyn RH. Ineffectiveness of indomethacin in the treatment of chronic cystoid macular edema. *Am J Ophthalmol* 1977;84:517-9.
- [497] Flach AJ, Dolan BJ, Irvine AR. Effectiveness of ketorolac tromethamine 0.5% ophthalmic solution for chronic aphakic and pseudophakic cystoid macular edema. *Am J Ophthalmol* 1987;103:479-86.
- [498] Flach AJ, Jampol LM, Weinberg D. Improvement in visual acuity in chronic aphakic and pseudophakic cystoid macular edema after treatment with topical 0.5% ketorolac tromethamine. *Am J Ophthalmol* 1991;112:514-9.
- [499] Jampol LM. Pharmacologic therapy of aphakic and pseudophakic cystoid macular edema; 1985 update. *Ophthalmology* 1985;92:807-10.
- [500] Kraff MC, Sanders DR, Jampol LM. Prophylaxis of pseudophakic cystoid macular edema with topical indomethacin. *Ophthalmology* 1982;89:885-90.
- [501] McEntyre JM. A successful treatment for aphakic cystoid macular edema. *Ann Ophthalmol* 1978;10:1219-24.
- [502] Melberg NS, Olk RJ. Corticosteroid-induced ocular hypertension in the treatment of aphakic or pseudophakic cystoid macular edema. *Ophthalmology* 1993;100:164-7.
- [503] Fung WE. Vitrectomy-ACME Study Group Vitrectomy for chronic aphakic cystoid macular edema; results of a national, collaborative, prospective, randomized investigation. *Ophthalmology* 1985;92:1102-11.
- [504] Cox SN, Hay E, Bird AC. Treatment of chronic macular edema with acetazolamide. *Arch Ophthalmol* 1988;106:1190-5.
- [505] Marmor MF. Hypothesis concerning carbonic anhydrase treatment of cystoid macular edema: example with epiretinal membrane. *Arch Ophthalmol* 1990;108:1524-5.
- [506] Tripathi RC, Fekrat S, Tripathi BJ, et al. A direct correlation of the resolution of pseudophakic cystoid macular edema with acetazolamide therapy. *Ann Ophthalmol* 1991;23:127-9.
- [507] Coscas G. Maculopathies oedémateuses, Sociétés d'Ophthalmologie de France, 1972, rapport annuel. *Bull Soc Ophthalmol Fr*, numero special 1972.
- [508] Ffytche TJ, Blach RK. The aetiology of macular oedema. *Trans Ophthalmol Soc UK*. 1970;90:637-56.
- [509] François J, De Laey JJ, Verbraeken H. Das zystoide Ödem der Macula. *Klin Monatsbl Augenheilkd* 1973;162:125-38.
- [510] Irvine AR. Cystoid maculopathy. *Surv Ophthalmol* 1976;21:1-17.
- [511] Lakhanpal V, Schocket SS. Pseudophakic and aphakic retinal detachment mimicking cystoid macular edema. *Ophthalmology* 1987;94:785-91.
- [512] Bonnet M, Payan X. Pronostic à long terme de l'oedème cystoïde de la macula après microchirurgie du décollement rhéomatogène de la rétine. *J Fr Ophthalmol* 1993;16:259-63.
- [513] Gass JDM. Fluorescein angiography: an aid to the retinal surgeon. In: Pruett RC, Regan CDJ, editors. *Retina Congress; 25th anniversary meeting of the Retina Service Massachusetts Eye and Ear Infirmary (1972)*. New York: Appleton-Century-Crofts; 1974. p. 181-201.
- [514] Meredith TA, Reeser FH, Topping TM, et al. Cystoid macular edema after retinal detachment surgery. *Ophthalmology* 1980;87:1090-5.
- [515] Ryan Jr SJ. Cystoid maculopathy in phakic retinal detachment procedures. *Am J Ophthalmol* 1973;76:519-22.
- [516] Lobes Jr LA, Grand MG. Incidence of cystoid macular edema following scleral buckling procedure. *Arch Ophthalmol* 1980;98:1230-2.
- [517] Kimball RW, Morse PH, Benson WE. Cystoid macular edema after cryotherapy. *Am J Ophthalmol* 1978;86:572-3.
- [518] Kramer SG. Cystoid macular edema after aphakic penetrating keratoplasty. *Ophthalmology* 1981;88:782-7.
- [519] West CE, Fitzgerald CR, Sewell JH. Cystoid macular edema following aphakic keratoplasty. *Am J Ophthalmol* 1973;75:77-81.
- [520] Price Jr FW, Whitson WE. Natural history of cystoid macular edema in pseudophakic bullous keratopathy. *J Cataract Refract Surg* 1990;16:163-9.
- [521] Choplin NT, Bene CH. Cystoid macular edema following laser iridotomy. *Ann Ophthalmol* 1983;15:172-3.
- [522] Gass JDM. Lamellar macular hole: a complication of cystoid macular edema after cataract extraction: a clinicopathologic case report. *Trans Am Ophthalmol Soc* 1975;73:231-50.
- [523] Trese MT, Foos RY. Infantile cystoid maculopathy. *Br J Ophthalmol* 1980;64:206-10.
- [524] Brownstein S, Orton R, Jackson WB. Cystoid macular edema with equatorial choroidal melanoma. *Arch Ophthalmol* 1978;96:2105-7.
- [525] Kolker AE, Becker B. Epinephrine maculopathy. *Arch Ophthalmol* 1968;79:552-62.
- [526] Mackool RJ, Muldoon T, Fortier A, et al. Epinephrine-induced cystoid macular edema in aphakic eyes. *Arch Ophthalmol* 1977;95:791-3.
- [527] Thomas JV, Gragoudas ES, Blair NP, et al. Correlation of epinephrine use and macular edema in aphakic glaucomatous eyes. *Arch Ophthalmol* 1978;96:625-8.
- [528] Watanabe K, Hayasaka S, Hayasaka Y, et al. Cystoid macular edema associated with latanoprost use in a pseudophakic eye with a history of surgical complications. *Jpn J Ophthalmol* 2003;47:110-2.
- [529] Jager M, Jonas JB. Cystoid macular edema associated with latanoprost therapy in a pseudophakic vitrectomized patient after removal of silicone oil endotamponade. *Eur J Ophthalmol* 2003;13:221-2.
- [530] Gass JDM. Nicotinic acid maculopathy. *Am J Ophthalmol* 1973;76:500-10.
- [531] Harris JL. Toxic amblyopia associated with administration of nicotinic acid. *Am J Ophthalmol* 1963;55:133-4.
- [532] Millay RH, Klein ML, Illingworth DR. Niacin maculopathy. *Ophthalmology* 1988;95:930-6.
- [533] Parsons Jr WB, Flinn JH. Reduction in elevated blood cholesterol levels by large doses of nicotinic acid; preliminary report. *JAMA* 1957;165:234-8.
- [534] Tamási G, Borsy J, Gyenge R. Changes in serum triglyceride and cholesterol levels independently of free fatty acid after lipolysis

- inhibitors. *Biochem Pharmacol* 1970;19:1826–30.
- [535] Spirn MJ, Warren FA, Guyer DR, et al. Optical coherence tomography findings in nicotinic acid maculopathy. *Am J Ophthalmol* 2003;135:913–4.
- [536] Dajani HM, Lauer AK. Optical coherence tomography findings in niacin maculopathy. *Can J Ophthalmol* 2006;41:197–200.
- [537] Callanan D, Blodi BA, Martin DF. Macular edema associated with nicotinic acid (niacin). *JAMA* 1998;279:1702.
- [538] Jampol LM. Cystoid macular edema following cataract surgery. *Arch Ophthalmol* 1988;106:894–5.
- [539] Gass JD. Nicotinic acid maculopathy. *Am J Ophthalmol* 1973;76:500–10.
- [540] Deutman AF, AJLG Pinckers, Aan de Kerk AL. Dominantly inherited cystoid macular edema. *Am J Ophthalmol* 1976;82:540–8.
- [541] Fishman GA, Goldberg MF, Trautmann JC. Dominantly inherited cystoid macular edema. *Ann Ophthalmol* 1979;11:21–7.
- [542] Loeffler KU, Li Z-L, Fishman GA, et al. Dominantly inherited cystoid macular edema; a histopathologic study. *Ophthalmology* 1992;99:1385–92.
- [543] Pinckers A, Cruysberg JR, Kremer H, et al. Acetazolamide in dominant cystoid macular dystrophy. A pilot study. *Ophthalmic Paediatr Genet* 1993;14:95–9.
- [544] Hogewind BF, Pieters G, Hoyng CB. Octreotide acetate in dominant cystoid macular dystrophy. *Eur J Ophthalmol* 2008;18:99–103.
- [545] Reese AB. Telangiectasis of the retina and Coats' disease. *Am J Ophthalmol* 1956;42:1–8.
- [546] Campbell FP. Coats' disease and congenital vascular retinopathy. *Trans Am Ophthalmol Soc* 1976;74:365–424.
- [547] Casswell AG, Chaine G, Rush P, et al. Paramacular telangiectasis. *Trans Ophthalmol Soc UK* 1986;105:683–92.
- [548] Coats G. Forms of retinal disease with massive exudation. *R Lond Ophthalmic Hosp Rep* 1907–1908;17:440–525.
- [549] Gass JDM. A fluorescein angiographic study of macular dysfunction secondary to retinal vascular disease. V. Retinal telangiectasis. *Arch Ophthalmol* 1968;80:592–605.
- [550] Gass JDM. Differential diagnosis of intraocular tumors; a stereoscopic presentation. St. Louis: CV Mosby; 1974. p. 248.
- [551] Gass JDM, Blodi BA. Idiopathic juxtafoveolar retinal telangiectasis; update of classification and follow-up study. *Ophthalmology* 1993;100:1536–46.
- [552] Gomez Morales A. Coats' disease; natural history and results of treatment. *Am J Ophthalmol* 1965;60:855–65.
- [553] McGrand JC. Photocoagulation in Coats' disease. *Trans Ophthalmol Soc UK* 1970;90:47–56.
- [554] Ridley ME, Shields JA, Brown GC, et al. Coats' disease; evaluation of management. *Ophthalmology* 1982;89:1381–7.
- [555] Egerer I, Tasman W, Tomer TL. Coats disease. *Arch Ophthalmol* 1974;92:109–12.
- [556] Ehlers N, Jensen VA. Hereditary central retinal angiopathy. *Acta Ophthalmol* 1973;51:171–8.
- [557] Judisch GF, Apple DJ. Orbital cellulitis in an infant secondary to Coats' disease. *Arch Ophthalmol* 1980;98:2004–6.
- [558] Tripathi R, Ashton N. Electron microscopical study of Coats' disease. *Br J Ophthalmol* 1971;55:289–301.
- [559] McCormick WF, Hardman JM, Boulter TR. Vascular malformations ("angiomas") of the brain, with special reference to those occurring in the posterior fossa. *J Neurosurg* 1968;28:241–51.
- [560] Gass JDM, Oyakawa RT. Idiopathic juxtafoveolar retinal telangiectasis. *Arch Ophthalmol* 1982;100:769–80.
- [561] Chopdar A. Retinal telangiectasis in adults: fluorescein angiographic findings and treatment by argon laser. *Br J Ophthalmol* 1978;62:243–50.
- [562] Hutton WL, Snyder WB, Fuller D, et al. Focal parafoveal retinal telangiectasis. *Arch Ophthalmol* 1978;96:1362–7.
- [563] Diago T, Valls B, Pulido JS. Coats' disease associated with muscular dystrophy treated with ranibizumab. *Eye (Lond)* 2010, Jan 15
- [564] Lin CJ, Hwang JF, Chen YT, et al. The effect of intravitreal bevacizumab in the treatment of coats disease in children. *Retina* 2010;24:1295–6.
- [565] Peyman GA, Dellacroce JT, Ebrahim SA. Removal of submacular exudates in a patient with Coats disease: a case report. *Retina* 2006;26:836–9.
- [566] Farkas TG, Potts AM, Boone C. Some pathologic and biochemical aspects of Coats' disease. *Am J Ophthalmol* 1973;75:289–301.
- [567] Goel SD, Augsburger JJ. Hemorrhagic retinal macrocysts in advanced Coats' disease. *Retina* 1991;11:437–40.
- [568] Shields JA, Shields CL, Honavar SG, et al. Classification and management of Coats disease: the 2000 Proctor Lecture. *Am J Ophthalmol* 2001;131:572–83.
- [569] Black GC, Perveen R, Bonshek R, et al. Coats' disease of the retina (unilateral retinal telangiectasis) caused by somatic mutation in the NDP gene: a role for norrin in retinal angiogenesis. *Hum Mol Genet* 1999;8:2031–5.
- [570] Lin P, Shankar SP, Duncan J, et al. Retinal vascular abnormalities and dragged maculae in a carrier with a new NDP mutation (c.268delC) that caused severe Norrie disease in the proband. *J AAPOS* 2010;14:93–6.
- [571] Gass JDM, Harbin Jr TS, Del Piero EJ. Exudative stellate neuroretinopathy and Coats' syndrome in patients with progressive hemifacial atrophy. *Eur J Ophthalmol* 1991;1:2–10.
- [572] Muchnick RS, Aston SJ, Rees TD. Ocular manifestations and treatment of hemifacial atrophy. *Am J Ophthalmol* 1979;88:889–97.
- [573] Chijiwa T, Nishimura M, Inomata H. Ocular manifestations of congenital muscular dystrophy (Fukuyama type). *Ann Ophthalmol* 1983;15:921–8.
- [574] Desai UR, Sabates FN. Long-term follow-up of facioscapulohumeral muscular dystrophy and Coats' disease. *Am J Ophthalmol* 1990;110:568–9.
- [575] Dickey JB, Daily MJ. Retinal telangiectasis in scapulo-peroneal muscular dystrophy. *Am J Ophthalmol* 1991;112:348–9.
- [576] Fitzsimons RB, Gurwin EB, Bird AC. Retinal vascular abnormalities in facioscapulohumeral muscular dystrophy. *Brain* 1987;110:631–48.
- [577] Gurwin EB, Fitzsimons RB, Sehmi KS, et al. Retinal telangiectasis in facioscapulohumeral muscular dystrophy with deafness. *Arch Ophthalmol* 1985;103:1695–700.
- [578] Pauleikhoff D, Bornfeld N, Bird AC, et al. Severe visual loss associated with retinal telangiectasis and facioscapulohumeral muscular dystrophy. *Graefes Arch Clin Exp Ophthalmol* 1992;230:362–5.
- [579] Wulff JD, Lin JT, Kepes JJ. Inflammatory facioscapulohumeral muscular dystrophy and Coats' syndrome. *Ann Neurol* 1982;12:398–401.
- [580] Small RG. Coats' disease and muscular dystrophy. *Trans Am Acad Ophthalmol Otolaryngol* 1968;72:225–31.
- [581] Kondra L, Cangemi FE, Pitta CG. Alport's syndrome and retinal telangiectasia. *Ann Ophthalmol* 1983;15:550–1.
- [582] Burch JV, Leveille AS, Morse PH. Ichthyosis hystrix (epidermal nevus syndrome) and Coats' disease. *Am J Ophthalmol* 1980;89:25–30.
- [583] Jost BF, Olk RJ. Atypical retinitis proliferans, retinal telangiectasis, and vitreous hemorrhage in a patient with tuberous

- sclerosis. *Retina* 1986;6:53–6.
- [584] Haritoglou C, Gandorfer A, Kampik A. Indocyanine green can distinguish posterior vitreous cortex from internal-limiting membrane during vitrectomy with removal of epiretinal membrane. *Retina* 2003;23:262.
- [585] Morgan III WE, Crawford JB. Retinitis pigmentosa and Coats' disease. *Arch Ophthalmol* 1968;79:146–9.
- [586] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 410–11.
- [587] Frenkel M, Russe HP. Retinal telangiectasia associated with hypogammaglobulinemia. *Am J Ophthalmol* 1967;63:215–20.
- [588] Shields CL, Zahler J, Falk N, et al. Neovascular glaucoma from advanced Coats disease as the initial manifestation of facioscapulohumeral dystrophy in a 2-year-old child. *Arch Ophthalmol* 2007;125:840–2.
- [589] Taylor DA, Carroll JE, Smith ME. Facioscapulohumeral muscular dystrophy associated with hearing loss and Coats' syndrome. *Ann Neurol* 1982;12:395–8.
- [590] Fishman GA, Trimble S, Rabb MF, et al. Pseudovitelliform macular degeneration. *Arch Ophthalmol* 1977;95:73–6.
- [591] Green WR, Quigley HA, De La Cruz Z, et al. Parafoveal retinal telangiectasis; light and electron microscopy studies. *Trans Ophthalmol Soc UK* 1980;100:162–70.
- [592] Lim JI, Bressler NM. Atypical parafoveal telangiectasis with subsequent anterior and posterior segment neovascularization. *Retina* 1992;12:351–4.
- [593] Gass JDM. A fluorescein angiographic study of macular dysfunction secondary to retinal vascular disease. VI. X-ray irradiation, carotid artery occlusion, collagen vascular disease, and vitritis. *Arch Ophthalmol* 1968;80:606–17.
- [594] Chew EY, Murphy RP, Newsome DA, et al. Parafoveal telangiectasis and diabetic retinopathy. *Arch Ophthalmol* 1986;104:71–5.
- [595] Moisseiev J, Lewis H, Bartov E. Superficial retinal refractile deposits in juxtafoveal telangiectasis. *Am J Ophthalmol* 1990;109:604–5.
- [596] Patel B, Duvall J, Tullo AB. Lamellar macular hole associated with idiopathic juxtafoveolar telangiectasia. *Br J Ophthalmol* 1988;72:550–1.
- [597] Gillies MC, Zhu M, Chew E, et al. Familial asymptomatic macular telangiectasia type 2. *Ophthalmology* 2009;116:2422–9.
- [598] Minnella AM, Yannuzzi LA, Slakter JS, et al. Bilateral perifoveal ischemia associated with chronic granulocytic leukemia. *Arch Ophthalmol* 1988;106:1170–1.
- [599] Grand MG, Kaine J, Fulling K. Cerebroretinal vasculopathy; a new hereditary syndrome. *Ophthalmology* 1988;95:649–59.
- [600] Gutmann DH, Fischbeck KH, Sergott RC. Hereditary retinal vasculopathy with cerebral white matter lesions. *Am J Med Genet* 1989;34:217–20.
- [601] Storimans CWJM, Oosterhuis JA, van Schooneveld MJ. Familial vascular retinopathy; a preliminary report. *Doc Ophthalmol* 1990;75:259–61.
- [602] Storimans CWJM, Van Schooneveld MJ, Oosterhuis JA, et al. A new autosomal dominant vascular retinopathy syndrome. *Eur J Ophthalmol* 1991;1:73–8.
- [603] van Effenterre G, Haut J, Brezin A. Retinal and choroidal ischemic syndrome, digestive tract and renal small vessel hyalinosis, intracerebral calcifications and phenotypic abnormalities: a new family syndrome. *Graefes Arch Clin Exp Ophthalmol* 1989;27:315–22.
- [604] Mateen FJ, Krecke K, Younge BR, et al. Evolution of a tumor-like lesion in cerebroretinal vasculopathy and TREX1 mutation. *Neurology* 2010;75:1211–3.
- [605] Qian Y, Kosmorsky G, Kaiser PK. Retinal manifestations of cerebroretinal vasculopathy. *Semin Ophthalmol* 2007;22:163–5.
- [606] Storimans CW, Fekkes D, van Dalen A, et al. Serotonergic status in patients with hereditary vascular retinopathy syndrome. *Br J Ophthalmol* 1998;82:897–900.
- [607] Kernt M, Gschwendtner A, Neubauer AS, et al. Effects of intravitreal bevacizumab treatment on proliferative retinopathy in a patient with cerebroretinal vasculopathy. *J Neurol* 2010;257:1213–4.
- [608] Niedermayer I, Graf N, Schmidbauer J, et al. Cerebroretinal vasculopathy mimicking a brain tumor. *Neurology* 2000;54:1878–9.
- [609] Niedermayer I, Reiche W, Graf N, et al. Cerebroretinal vasculopathy and leukoencephalopathy mimicking a brain tumor. Report of two early-onset cases with Fanconi's anemia-like phenotypes suggesting an autosomal-recessive inheritance pattern. *Clin Neuropathol* 2000;19:285–95.
- [610] Weil S, Reifenberger G, Dudel C, et al. Cerebroretinal vasculopathy mimicking a brain tumor: a case of a rare hereditary syndrome. *Neurology* 1999;53:629–31.
- [611] Siveke JT, Schmid H. Evidence for systemic manifestations in cerebroretinal vasculopathy. *Am J Med Genet A* 2003;123A:309.
- [612] Ophoff RA, DeYoung J, Service SK, et al. Hereditary vascular retinopathy, cerebroretinal vasculopathy, and hereditary endotheliopathy with retinopathy, nephropathy, and stroke map to a single locus on chromosome 3p21.1-p21.3. *Am J Hum Genet* 2001;69:447–53.
- [613] Jen J, Cohen AH, Yue Q, et al. Hereditary endotheliopathy with retinopathy, nephropathy, and stroke (HERNS). *Neurology* 1997;49:1322–30.
- [614] Brant AM, Schachat AP, White RI. Ocular manifestations in hereditary hemorrhagic telangiectasia (Rendu-Osler-Weber disease). *Am J Ophthalmol* 1989;107:642–6.
- [615] Forker EL, Bean WB. Retinal arteriovenous aneurysm in hereditary hemorrhagic telangiectasia. *Arch Intern Med* 1963;111:778–83.
- [616] Meyer-Schwickerath G, von Barsewisch B. Gefäßveränderungen an Haut und Retina. *Ber Dtsch Ophthalmol Ges* 1968;68:525–9.
- [617] Roubin IV. Telangiectasia of the disc in Osler's disease. *Vestn Oftalmol* 1957;70:29–30.
- [618] Vase I, Vase P. Ocular lesions in hereditary haemorrhagic telangiectasia. *Acta Ophthalmol* 1979;57:1084–90.
- [619] Geisthoff UW, Hille K, Ruprecht KW, et al. Prevalence of ocular manifestations in hereditary hemorrhagic telangiectasia. *Graefes Arch Clin Exp Ophthalmol* 2007;245:1141–4.
- [620] Mahmoud TH, Deramo VA, Kim T, et al. Intraoperative choroidal hemorrhage in the Osler-Rendu-Weber syndrome. *Am J Ophthalmol* 2002;133:282–4.
- [621] Tsai DC, Wang AG, Lee AF, et al. Choroidal telangiectasia in a patient with hereditary hemorrhagic telangiectasia. *Eye (Lond)* 2002;16:92–4.
- [622] Letteboer TG, Mager HJ, Snijder RJ, et al. Genotype-phenotype relationship for localization and age distribution of telangiectases in hereditary hemorrhagic telangiectasia. *Am J Med Genet A* 2008;146A:2733–9.
- [623] Lesca G, Olivieri C, Burnichon N, et al. Genotype-phenotype correlations in hereditary hemorrhagic telangiectasia: data from the French-Italian HHT network. *Genet Med* 2007;9:14–22.
- [624] Chang T.S, Aylward GW, Davis JL, editors. Idiopathic retinal vasculitis aneurysms and neuro-retinitis (IRVAN) syndrome, 102; 1995 p. 1089–97.
- [625] Karel I, Pelesska M, Divisová G. Fluorescence angiography in retinal vasculitis in children's uveitis. *Ophthalmologica* 1973;166:251–64.
- [626] Kincaid J, Schatz H. Bilateral retinal arteritis with multiple

- aneurysmal dilatations. *Retina* 1983;3:171-8.
- [627] Owens SL, Gregor ZJ. Vanishing retinal arterial aneurysms: a case report. *Br J Ophthalmol* 1992;76:636-8.
- [628] Samuel MA, Equi RA, Chang TS, et al. Idiopathic retinitis, vasculitis, aneurysms, and neuroretinitis (IRVAN): new observations and a proposed staging system. *Ophthalmology* 2007;114(1526-1529):e1.
- [629] Yeshurun I, Recillas-Gispert C, Navarro-Lopez P, et al. Extensive dynamics in location, shape, and size of aneurysms in a patient with idiopathic retinal vasculitis, aneurysms, and neuroretinitis (IRVAN) syndrome. Idiopathic retinal vasculitis, aneurysms, and neuroretinitis. *Am J Ophthalmol* 2003;135:118-20.
- [630] DiLoreto Jr DA, Sadda SR. Idiopathic retinal vasculitis, aneurysms, and neuroretinitis (IRVAN) with preserved perfusion. *Retina* 2003;23:554-7.
- [631] Riley WJ, Maclaren NK, Krischer J. A prospective study of the development of diabetes in relatives of patients with insulin-dependent diabetes. *N Engl J Med* 1990;323:1167-72.
- [632] Aiello LM, Rand LI, Briones JC. Diabetic retinopathy in Joslin Clinic patients with adult-onset diabetes. *Ophthalmology* 1981;88:619-23.
- [633] Frank RN. On the pathogenesis of diabetic retinopathy. *Ophthalmology* 1984;91:626-34.
- [634] Little HL. Alterations in blood elements in the pathogenesis of diabetic retinopathy. *Ophthalmology* 1981;88:647-54.
- [635] Little HL, Sacks A, Vassiliadis A, et al. Current concepts on pathogenesis of diabetic retinopathy: a dysproteinemia. *Trans Am Ophthalmol Soc* 1977;75:397-426.
- [636] Patz A. Clinical and experimental studies on retinal neovascularization. *Am J Ophthalmol* 1982;94:715-43.
- [637] Rubinstein K, Myska V. Pathogenesis and treatment of diabetic maculopathy. *Br J Ophthalmol* 1974;58:76-84.
- [638] Bresnick GH. Diabetic retinopathy viewed as a neurosensory disorder. *Arch Ophthalmol* 1986;104:989-90.
- [639] Frank RN. On the pathogenesis of diabetic retinopathy; a 1990 update. *Ophthalmology* 1991;98:586-93.
- [640] Catalano RA, Tanenbaum HL, Majerovics A. White centered retinal hemorrhages in diabetic retinopathy. *Ophthalmology* 1987;94:388-92.
- [641] Hardy KJ, Lipton J, Scase MO. Detection of colour vision abnormalities in uncomplicated type 1 diabetic patients with angiographically normal retinas. *Br J Ophthalmol* 1992;76:461-4.
- [642] Prager TC, Garcia CA, Mincher CA. The pattern electroretinogram in diabetes. *Am J Ophthalmol* 1990;109:279-84.
- [643] Ashton N. Studies of the retinal capillaries in relation to diabetic and other retinopathies. *Br J Ophthalmol* 1963;47:521-38.
- [644] Bresnick GH, Davis MD, Myers FL, et al. Clinicopathologic correlations in diabetic retinopathy. II. Clinical and histologic appearances of retinal capillary microaneurysms. *Arch Ophthalmol* 1977;95:1215-20.
- [645] Bresnick GH, Haight B, de Venecia G. Retinal wrinkling and macular heterotopia in diabetic retinopathy. *Arch Ophthalmol* 1979;97:1890-5.
- [646] Cogan DG, Kuwabara T. Capillary shunts in the pathogenesis of diabetic retinopathy. *Diabetes* 1963;12:293-300.
- [647] Cogan DG, Toussaint D, Kuwabara T. Retinal vascular patterns. IV. Diabetic retinopathy. *Arch Ophthalmol* 1961;66:366-78.
- [648] de Venecia G, Davis M, Engerman R. Clinicopathologic correlations in diabetic retinopathy. I. Histology and fluorescein angiography of microaneurysms. *Arch Ophthalmol* 1976;94:1766-73.
- [649] Kohner EM, Dollery CT. Fluorescein angiography of the fundus in diabetic retinopathy. *Br Med Bull* 1970;26:166-70.
- [650] Kohner EM, Dollery CT, Paterson JW, et al. Arterial fluorescein studies in diabetic retinopathy. *Diabetes* 1967;16:1-10.
- [651] Kohner EM, Henkind P. Correlation of fluorescein angiogram and retinal digest in diabetic retinopathy. *Am J Ophthalmol* 1970;69:403-14.
- [652] Norton EWD, Gutman F. Diabetic retinopathy studied by fluorescein angiography. *Ophthalmologica* 1965;150:5-17.
- [653] Scott DJ, Dollery CT, Hill DW. Fluorescein studies of the retinal circulation in diabetics. *Br J Ophthalmol* 1963;47:588-9.
- [654] Shimizu K, Kobayashi Y, Muraoka K. Midperipheral fundus involvement in diabetic retinopathy. *Ophthalmology* 1981;88:601-12.
- [655] Bertram B, Wolf S, Fiehöfer S. Retinal circulation times in diabetes mellitus type 1. *Br J Ophthalmol* 1991;75:462-5.
- [656] Rimmer T, Fallon TJ, Kohner EM. Long-term follow-up of retinal blood flow in diabetes using the blue light entoptic phenomenon. *Br J Ophthalmol* 1989;73:1-5.
- [657] Rimmer T, Fleming J, Kohner EM. Hypoxic viscosity and diabetic retinopathy. *Br J Ophthalmol* 1990;74:400-4.
- [658] Sinclair SH. Macular retinal capillary hemodynamics in diabetic patients. *Ophthalmology* 1991;98:1580-6.
- [659] Diabetic Retinopathy Study Research Group. A modification of the Airlie House classification of diabetic retinopathy. *Invest Ophthalmol Vis Sci* 1981;21:210-26. [Report 7.]
- [660] Kohner EM, Dollery CT, Bulpitt CJ. Cotton-wool spots in diabetic retinopathy. *Diabetes* 1969;18:691-704.
- [661] Bodansky HJ, Cudworth AG, Whitelocke RAF, et al. Diabetic retinopathy and its relation to type of diabetes: review of a retinal clinic population. *Br J Ophthalmol* 1982;66:496-9.
- [662] Bresnick GH. Diabetic maculopathy; a critical review highlighting diffuse macular edema. *Ophthalmology* 1983;90:1301-17.
- [663] Bresnick GH. Diabetic macular edema; a review. *Ophthalmology* 1986;93:989-97.
- [664] Ferris III FL, Patz A. Macular edema. A complication of diabetic retinopathy. *Surv Ophthalmol* 1984;28:452-61.
- [665] Kearns M, Hamilton AM, Kohner EM. Excessive permeability in diabetic maculopathy. *Br J Ophthalmol* 1979;63:489-97.
- [666] Klein R, Klein BEK, Moss SE. The Wisconsin Epidemiologic Study of Diabetic Retinopathy. IV. Diabetic macular edema. *Ophthalmology* 1984;91:1464-74.
- [667] Klein R, Klein BEK, Moss SE. The Wisconsin Epidemiologic Study of Diabetic Retinopathy. VII. Diabetic nonproliferative retinal lesions. *Ophthalmology* 1987;94:1389-400.
- [668] Klein R, Meuer SM, Moss SE, et al. The Wisconsin Epidemiologic Study of Diabetic Retinopathy. XI. The incidence of macular edema. *Ophthalmology* 1989;96:1501-10.
- [669] Kohner EM. The evolution and natural history of diabetic retinopathy. *Int Ophthalmol Clin* 1978;18:1-16.
- [670] Patz A, Schatz H, Berkow JW. Macular edema - an overlooked complication of diabetic retinopathy. *Trans Am Acad Ophthalmol Otolaryngol* 1973;77:OP34-42.
- [671] Sigelman J. Diabetic macular edema in juvenile- and adult-onset diabetes. *Am J Ophthalmol* 1980;90:287-96.
- [672] Bec T, Lund-Andersen H. Cotton-wool spots and retinal light sensitivity in diabetic retinopathy. *Br J Ophthalmol* 1991;75:13-17.
- [673] Tani M. Cotton-wool patch in diabetic retinopathy. *Folia Ophthalmol Jpn* 1964;15:674-80.
- [674] Chihara E, Matsuoka T, Ogura Y, et al. Retinal nerve fiber layer defect as an early manifestation of diabetic retinopathy. *Ophthalmology* 1993;100:1147-51.
- [675] Brown GC, Ridley M, Haas D. Lipemic diabetic retinopathy. *Ophthalmology* 1984;91:1490-5.



- [676] Robertson DM, Misch DM. Pseudo-endophthalmitis caused by intravitreal lipid transudation in association with proliferative diabetic retinopathy and hyperlipidemia. *Retina* 1986;6:73-6.
- [677] Gass JDM. A fluorescein angiographic study of macular dysfunction secondary to retinal vascular disease. IV. Diabetic retinal angiopathy. *Arch Ophthalmol* 1968;80:583-91.
- [678] Schatz H, Patz A. Cystoid maculopathy in diabetics. *Arch Ophthalmol* 1976;94:761-8.
- [679] Mansour AM, Schachat A, Bodiford G, et al. Foveal avascular zone in diabetes mellitus. *Retina* 1993;13:125-8.
- [680] Morgado PB, Chen HC, Patel V. The acute effect of smoking on retinal blood flow in subjects with and without diabetes. *Ophthalmology* 1994;101:1220-6.
- [681] Diabetic Retinopathy Study Research Group. Photocoagulation treatment of proliferative diabetic retinopathy: the second report of diabetic retinopathy study findings. *Ophthalmology* 1978;85:82-106.
- [682] Davis MD. The natural course of diabetic retinopathy. *Trans Am Acad Ophthalmol Otolaryngol* 1968;72:237-40.
- [683] Foos RY, Kreiger AE, Forsythe AB, et al. Posterior vitreous detachment in diabetic subjects. *Ophthalmology* 1980;87:122-8.
- [684] Takahashi M, Trempe CL, Maguire K, et al. Vitreoretinal relationship in diabetic retinopathy; a biomicroscopic evaluation. *Arch Ophthalmol* 1981;99:241-5.
- [685] Bresnick GH, Smith V, Pokorny J. Visual function abnormalities in macular heterotopia caused by proliferative diabetic retinopathy. *Am J Ophthalmol* 1981;92:85-102.
- [686] Hersh PS, Green WR, Thomas JV. Tractional venous loops in diabetic retinopathy. *Am J Ophthalmol* 1981;92:661-71.
- [687] Jalkh A, Takahashi M, Topilow HW. Prognostic value of vitreous findings in diabetic retinopathy. *Arch Ophthalmol* 1982;100:432-4.
- [688] Lewis H, Abrams GW, Blumenkranz MS, et al. Vitrectomy for diabetic macular traction and edema associated with posterior hyaloidal traction. *Ophthalmology* 1992;99:753-9.
- [689] Nasrallah FP, Jalkh AE, Van Coppenolle F. The role of the vitreous in diabetic macular edema. *Ophthalmology* 1988;95:1335-9.
- [690] Nasrallah FP, Van de Velde F, Jalkh AE. Importance of the vitreous in young diabetics with macular edema. *Ophthalmology* 1989;96:1511-7.
- [691] Finkelstein D, Patz A, Fine SL. Abortive foveal retinal neovascularization in diabetic retinopathy. *Retina* 1981;1:62-6.
- [692] Hiscott P, Cooling RJ, Rosen P, et al. The pathology of abortive neovascular outgrowths from the retina. *Graefes Arch Clin Exp Ophthalmol* 1992;230:531-6.
- [693] Joondeph BC, Joondeph HC, Flood TP. Foveal neovascularization in diabetic retinopathy. *Arch Ophthalmol* 1987;105:1672-5.
- [694] Wong H-C, Sehmi KS, McLeod D. Abortive neovascular outgrowths discovered during vitrectomy for diabetic vitreous hemorrhage. *Graefes Arch Clin Exp Ophthalmol* 1989;227:237-40.
- [695] Palmberg P, Smith M, Waltman S. The natural history of retinopathy in insulin-dependent juvenile-onset diabetes. *Ophthalmology* 1981;88:613-8.
- [696] Yanko L, Goldbourt U, Michaelson IC. Prevalence and 15-year incidence of retinopathy and associated characteristics in middle-aged and elderly diabetic men. *Br J Ophthalmol* 1983;67:759-65.
- [697] Bertram B, Wolf S, Schulte K. Retinal blood flow in diabetic children and adolescents. *Graefes Arch Clin Exp Ophthalmol* 1991;229:336-40.
- [698] Klein R. The epidemiology of diabetic retinopathy: findings from the Wisconsin Epidemiologic Study of Diabetic Retinopathy. *Int Ophthalmol Clin* 1987;27:230-8.
- [699] Murphy RP, Nanda M, Plotnick L. The relationship of puberty to diabetic retinopathy. *Arch Ophthalmol* 1990;108:215-8.
- [700] Verougstraete C, Toussaint D, De Schepper J. First microangiographic abnormalities in childhood diabetes - types of lesions. *Graefes Arch Clin Exp Ophthalmol* 1991;229:24-32.
- [701] Klein R, Klein BEK, Moss SE. The Wisconsin Epidemiologic Study of Diabetic Retinopathy. IX. Four-year incidence and progression of diabetic retinopathy when age at diagnosis is less than 30 years. *Arch Ophthalmol* 1989;107:237-43.
- [702] Klein R, Klein BEK, Moss SE, et al. The Beaver Dam Eye Study. Retinopathy in adults with newly discovered and previously diagnosed diabetes mellitus. *Ophthalmology* 1992;99:58-62.
- [703] Klein R, Klein BEK, Moss SA. The Wisconsin Epidemiologic Study of Diabetic Retinopathy. X. Four-year incidence and progression of diabetic retinopathy when age at diagnosis is 30 years or more. *Arch Ophthalmol* 1989;107:244-9.
- [704] Chen M-S, Kao C-S, Chang C-J. Prevalence and risk factors of diabetic retinopathy among noninsulin-dependent diabetic subjects. *Am J Ophthalmol* 1992;114:723-30.
- [705] Wiznia RA. Photocoagulation of nonproliferative exudative diabetic retinopathy. *Am J Ophthalmol* 1979;88:22-7.
- [706] Klein R, Klein BEK, Moss SE, et al. The Wisconsin Epidemiologic Study of Diabetic Retinopathy. XIV. Ten-year incidence and progression of diabetic retinopathy. *Arch Ophthalmol* 1994;112:1217-28.
- [707] Cruickshanks KJ, Ritter LL, Klein R, et al. The association of microalbuminuria with diabetic retinopathy; the Wisconsin Epidemiologic Study of Diabetic Retinopathy. *Ophthalmology* 1993;100:862-7.
- [708] Chase HP, Garg SK, Jackson WE. Blood pressure and retinopathy in type I diabetes. *Ophthalmology* 1990;97:155-9.
- [709] Marshall G, Garg SK, Jackson WE. Factors influencing the onset and progression of diabetic retinopathy in subjects with insulin-dependent diabetes mellitus. *Ophthalmology* 1993;100:1133-9.
- [710] Kishi S, Shimizu K. Clinical manifestations of posterior precortical vitreous pocket in proliferative diabetic retinopathy. *Ophthalmology* 1993;100:225-9.
- [711] Shahidi M, Ogura Y, Blair NP. Retinal thickness analysis for quantitative assessment of diabetic macular edema. *Arch Ophthalmol* 1991;109:1115-9.
- [712] Moss SE, Klein R, Meuer MB, et al. The association of iris color with eye disease in diabetes. *Ophthalmology* 1987;94:1226-31.
- [713] Marshall J, Clover G, Rothery S. Some new findings on retinal irradiation by krypton and argon lasers. *Doc Ophthalmol Proc Ser* 1984;36:21-37.
- [714] Mühlhauser I, Sawicki P, Berger M. Cigarette-smoking as a risk factor for macroproteinuria and proliferative retinopathy in type I (insulin-dependent) diabetes. *Diabetologia* 1986;29:500-2.
- [715] Haffner SM, Klein R, Dunn JF. Increased testosterone in type I diabetic subjects with severe retinopathy. *Ophthalmology* 1990;97:1270-4.
- [716] Viebahn M, Barricks ME, Osterloh MD. Synergism between diabetic and irradiation retinopathy: case report and review. *Br J Ophthalmol* 1991;75:629-32.
- [717] Bresnick GH, Engerman R, Davis MD. Patterns of ischemia in diabetic retinopathy. *Trans Am Acad Ophthalmol Otolaryngol* 1976;81:OP694-OP709.
- [718] Haffner SM, Fong D, Stern MP. Diabetic retinopathy in Mexican Americans and non-Hispanic Whites. *Diabetes* 1988;37:878-84.
- [719] DAMAD Study Group. Effect of aspirin alone and aspirin plus dipyridamole in early diabetic retinopathy; a multicenter randomized controlled clinical trial. *Diabetes* 1989;38:491-8.
- [720] Jaffe GJ, Burton TC. Progression of nonproliferative diabetic retinopathy following cataract extraction. *Arch Ophthalmol*

- 1988;106:745-9.
- [721] Jaffe GJ, Burton TC, Kuhn E. Progression of nonproliferative diabetic retinopathy and visual outcome after extracapsular cataract extraction and intraocular lens implantation. *Am J Ophthalmol* 1992;114:448-56.
- [722] Pollack A, Dotan S, Oliver M. Progression of diabetic retinopathy after cataract extraction. *Br J Ophthalmol* 1991;75:547-51.
- [723] Pollack A, Leiba H, Bukelman A. The course of diabetic retinopathy following cataract surgery in eyes previously treated by laser photocoagulation. *Br J Ophthalmol* 1992;76:228-31.
- [724] Ruiz RS, Saatci OA. Posterior chamber intraocular lens implantation in eyes with inactive and active proliferative diabetic retinopathy. *Am J Ophthalmol* 1991;111:158-62.
- [725] Schatz H, Atienza D, McDonald HR, et al. Severe diabetic retinopathy after cataract surgery. *Am J Ophthalmol* 1994;117:314-21.
- [726] Bierly JR, Dunn JP. Macular edema after carotid endarterectomy in ocular ischemic syndrome. *Am J Ophthalmol* 1992;113:105-7.
- [727] Duker JS, Brown GC, Bosley TM. Asymmetric proliferative diabetic retinopathy and carotid artery disease. *Ophthalmology* 1990;97:869-74.
- [728] Gay AJ, Rosenbaum AL. Retinal artery pressure in asymmetric diabetic retinopathy. *Arch Ophthalmol* 1966;75:758-62.
- [729] Bresnick GH, Condit R, Syrjala S. Abnormalities of the foveal avascular zone in diabetic retinopathy. *Arch Ophthalmol* 1984;102:1286-93.
- [730] Bresnick GH, de Venecia G, Myers FL. Retinal ischemia in diabetic retinopathy. *Arch Ophthalmol* 1975;93:1300-10.
- [731] Brinchmann-Hansen O, Dahl-Jorgensen K, Hanssen KF, et al. The response of diabetic retinopathy to 41 months of multiple insulin injections, insulin pumps, and conventional insulin therapy. *Arch Ophthalmol* 1988;106:1242-6.
- [732] Hill DW, Dollery CT, Mailer CM, et al. Arterial fluorescein studies in diabetic retinopathy. *Proc R Soc Med* 1965;58:535-7.
- [733] Merin S, Ber I, Ivry M. Retinal ischemia (capillary nonperfusion) and retinal neovascularization in patients with diabetic retinopathy. *Ophthalmologica* 1978;177:140-5.
- [734] Kincaid MC, Green WR, Fine SL. An ocular clinicopathologic correlative study of six patients from the Diabetic Retinopathy Study. *Retina* 1983;3:218-38.
- [735] Kuwabara T, Cogan DG. Retinal vascular patterns. VI. Mural cells of the retinal capillaries. *Arch Ophthalmol* 1963;69:492-502.
- [736] Ticho U, Patz A. The role of capillary perfusion in the management of diabetic macular edema. *Am J Ophthalmol* 1973;76:880-6.
- [737] Freyler H, Prskavec F, Stelzer N. Diabetische Chorioïdopathie – eine retrospektive fluoreszenzangiographische Studie; Vorläufige Mitteilung. *Klin Monatsbl Augenheilkd* 1986;189:144-7.
- [738] Fryczkowski AW, Hodes BL, Walker J. Diabetic choroidal and iris vasculature scanning electron microscopy findings. *Int Ophthalmol* 1989;13:269-79.
- [739] Williams B. Angiotensin II, VEGF, and diabetic retinopathy. *Lancet* 1998;351:837-8.
- [740] Stoschitzky K. Angiotensin II, VEGF, and diabetic retinopathy. *Lancet* 1998;351:836-7.
- [741] Paques M, Massin P, Gaudric A. Growth factors and diabetic retinopathy. *Diabetes Metab* 1997;23:125-30.
- [742] Amalric P. Nouvelles considérations concernant l'évolution et le traitement de la rétinopathie diabétique. *Ophthalmologica* 1967;154:151-60.
- [743] Blankenship GW. Diabetic macular edema and argon laser photocoagulation: a prospective randomized study. *Ophthalmology* 1979;86:69-75.
- [744] Diabetic Retinopathy Study Research Group. Preliminary report on effects of photocoagulation therapy. *Am J Ophthalmol* 1976;81:383-96.
- [745] Diabetic Retinopathy Study Research Group. Four risk factors for severe visual loss in diabetic retinopathy; the third report from the Diabetic Retinopathy Study. *Arch Ophthalmol* 1979;97:654-5.
- [746] Hamilton AM. Management of diabetic retinopathy. *Trans Ophthalmol Soc UK* 1977;97:494-6.
- [747] Hercules BL, Gayed II, Lucas SB, et al. Peripheral retinal ablation in the treatment of proliferative diabetic retinopathy: a three-year interim report of a randomised, controlled study using the argon laser. *Br J Ophthalmol* 1977;61:555-63.
- [748] Marcus DF, Aaberg TM. Argon laser photocoagulation treatment of diabetic cystoid maculopathy. *Ann Ophthalmol* 1977;9:365-72.
- [749] McDonald HR, Schatz H. Grid photocoagulation for diffuse macular edema. *Retina* 1985;5:65-72.
- [750] Merin S, Yanko L, Ivry M. Treatment of diabetic maculopathy by argon-laser. *Br J Ophthalmol* 1974;58:85-91.
- [751] Meyers SM. Macular edema after scatter laser photocoagulation for proliferative diabetic retinopathy. *Am J Ophthalmol* 1980;90:210-6.
- [752] Meyer-Schwickerath GRE, Schott K. Diabetic retinopathy and photocoagulation. *Am J Ophthalmol* 1968;66:597-603.
- [753] Okun E, Cibis PA. The role of photocoagulation in the therapy of proliferative diabetic retinopathy. *Arch Ophthalmol* 1966;75:337-52.
- [754] Patz A, Schatz H, Ryan SJ. Argon laser photocoagulation for treatment of advanced diabetic retinopathy. *Trans Am Acad Ophthalmol Otolaryngol* 1972;76:984-9.
- [755] Plumb AP, Swan AV, Chignell AH, et al. A comparative trial of xenon arc and argon laser photocoagulation in the treatment of proliferative diabetic retinopathy. *Br J Ophthalmol* 1982;66:213-8.
- [756] Reeser F, Fleischman J, Williams GA, et al. Efficacy of argon laser photocoagulation in the treatment of circinate diabetic retinopathy. *Am J Ophthalmol* 1981;92:762-7.
- [757] Spalter HF. Photocoagulation of circinate maculopathy in diabetic retinopathy. *Am J Ophthalmol* 1971;71:242-50.
- [758] Welch RB. The treatment of diabetic retinopathy. In: Goldberg MF, Fine SL, editors. *Symposium on the treatment of diabetic retinopathy*. Airlie House, Warrenton, Virginia: Public Health Service Publication No. 1890, Washington, DC, 1969, U.S. Department of Health, Education and Welfare; September 29 to October 1, 1968. p. 563-68.
- [759] Whitelocke RAF, Kearns M, Blach RK, et al. The diabetic maculopathies. *Trans Ophthalmol Soc UK* 1979;99:314-20.
- [760] British Multicentre Study Group. Photocoagulation for diabetic maculopathy; a randomized controlled clinical trial using the xenon arc. *Diabetes* 1983;32:1010-6.
- [761] Diabetic Retinopathy Study Research Group. Photocoagulation treatment of proliferative diabetic retinopathy; clinical application of Diabetic Retinopathy Study (DRS) findings, DRS report number 8. *Ophthalmology* 1981;88:583-600.
- [762] Diabetic Retinopathy Study Research Group. Two-year course of visual acuity in severe diabetic proliferative retinopathy with conventional management. *Diabetic Retinopathy Vitrectomy Study (DRVS) Report number 1*. *Ophthalmology* 1985;92:492-502.
- [763] Diabetic Retinopathy Study Research Group. Early vitrectomy for severe vitreous hemorrhage in diabetic retinopathy; two-year results of a randomized trial; *Diabetic Retinopathy Vitrectomy Study report 2*. *Arch Ophthalmol* 1985;103:1644-52.
- [764] Diabetic Retinopathy Study Research Group. Early vitrectomy for severe proliferative diabetic retinopathy in eyes with useful

- vision; results of a randomized trial – Diabetic Retinopathy Vitrectomy Study report 3. *Ophthalmology* 1988;95:1307–20.
- [765] Diabetic Retinopathy Vitrectomy Study Research Group. Early vitrectomy for severe proliferative diabetic retinopathy in eyes with useful vision; clinical application of results of a randomized trial – Diabetic Retinopathy report 4. *Ophthalmology* 1988;95:1321–34.
- [766] Diabetic Retinopathy Vitrectomy Study Research Group. Early vitrectomy for severe vitreous hemorrhage in diabetic retinopathy; four-year results of a randomized trial: diabetic Retinopathy Study report 5. *Arch Ophthalmol* 1990;108:958–64.
- [767] Early Treatment Diabetic Retinopathy Study Research Group. Photocoagulation for diabetic macular edema. Early Treatment Diabetic Retinopathy Study report number 1. *Arch Ophthalmol* 1985;103:1796–806.
- [768] Early Treatment Diabetic Retinopathy Study Research Group. Treatment techniques and clinical guidelines for photocoagulation of diabetic macular edema. Early Treatment Diabetic Retinopathy Study report number 2. *Ophthalmology* 1987;94:761–74.
- [769] Early Treatment Diabetic Retinopathy Study Research Group. Techniques for scatter and local photocoagulation treatment of diabetic retinopathy: early Treatment Diabetic Retinopathy Study report no 3. *Int Ophthalmol Clin* 1987;27:254–64.
- [770] Early Treatment Diabetic Retinopathy Study Research Group. Early treatment diabetic retinopathy study design and baseline patient characteristics. ETDRS report number 7. *Ophthalmology* 1991;98:741–56.
- [771] Early Treatment Diabetic Retinopathy Study Research Group. Effects of aspirin treatment on diabetic retinopathy. ETDRS report number 8. *Ophthalmology* 1991;98:757–65.
- [772] Early Treatment Diabetic Retinopathy Study Research Group. Early photocoagulation for diabetic retinopathy. ETDRS report number 9. *Ophthalmology* 1991;98:766–85.
- [773] Early Treatment Diabetic Retinopathy Study Research Group. Fluorescein angiographic risk factors for progression of diabetic retinopathy. ETDRS report number 13. *Ophthalmology* 1991;98:834–40.
- [774] Ferris III FL, Podgor MJ, Davis MD. Macular edema in diabetic retinopathy study patients. Diabetic Retinopathy Study report number 12. *Ophthalmology* 1987;94:754–60.
- [775] Lee CM, Olk RJ. Modified grid laser photocoagulation for diffuse diabetic macular edema; long-term visual results. *Ophthalmology* 1991;98:1594–602.
- [776] Olk RJ. Modified grid argon (blue-green) laser photocoagulation for diffuse diabetic macular edema. *Ophthalmology* 1986;93:938–50.
- [777] Striph GG, Hart Jr WM, Olk RJ. Modified grid laser photocoagulation for diabetic macular edema; the effect on the central visual field. *Ophthalmology* 1988;95:1673–9.
- [778] McDonald HR, Schatz H. Visual loss following panretinal photocoagulation for proliferative diabetic retinopathy. *Ophthalmology* 1985;92:388–93.
- [779] Blankenship GW. A clinical comparison of central and peripheral argon laser panretinal photocoagulation for proliferative diabetic retinopathy. *Ophthalmology* 1988;95:170–7.
- [780] Gardner TW, Eller AW, Friberg TR. Reduction of severe macular edema in eyes with poor vision after panretinal photocoagulation for proliferative diabetic retinopathy. *Graefes Arch Clin Exp Ophthalmol* 1991;229:323–8.
- [781] Aylward GW, Pearson RV, Jagger JD, et al. Extensive argon laser photocoagulation in the treatment of proliferative diabetic retinopathy. *Br J Ophthalmol* 1989;73:197–201.
- [782] Doft BH, Metz DJ, Kelsey SF. Augmentation laser for proliferative diabetic retinopathy that fails to respond to initial panretinal photocoagulation. *Ophthalmology* 1992;99:1728–35.
- [783] Blankenship GW, Gerke E, Batlle JF. Red krypton and blue-green argon laser diabetic panretinal photocoagulation. *Graefes Arch Clin Exp Ophthalmol* 1989;227:364–8.
- [784] Bressler SB. Does wavelength matter when photocoagulating eyes with macular degeneration or diabetic retinopathy? *Arch Ophthalmol* 1993;111:177–80.
- [785] Canning C, Polkinghorne P, Ariffin A, et al. Panretinal laser photocoagulation for proliferative diabetic retinopathy: the effect of laser wavelength on macular function. *Br J Ophthalmol* 1991;75:608–10.
- [786] Capoferri C, Bagini M, Chizzoli A. Electroretinographic findings in panretinal photocoagulation for diabetic retinopathy; a randomized study with blue-green argon and red krypton lasers. *Graefes Arch Clin Exp Ophthalmol* 1990;228:232–6.
- [787] Casswell AG, Canning CR, Gregor ZJ. Treatment of diffuse macular oedema: a comparison between argon and krypton lasers. *Eye* 1990;4:668–72.
- [788] Olk RJ. Argon green (514 nm) versus krypton red (647 nm) modified grid laser photocoagulation for diffuse diabetic macular edema. *Ophthalmology* 1990;97:1101–12.
- [789] Abu El Asrar AM, Morse PH. Laser photocoagulation control of diabetic macular oedema without fluorescein angiography. *Br J Ophthalmol* 1991;75:97–9.
- [790] Adamis AP, Miller JW, Bernal M-T. Increased vascular endothelial growth factor levels in the vitreous of eyes with proliferative diabetic retinopathy. *Am J Ophthalmol* 1994;118:445–50.
- [791] Stefansson E. Oxygen and diabetic eye disease. *Graefes Arch Clin Exp Ophthalmol* 1990;228:120–3.
- [792] Stefansson E, Macheimer R, de Juan Jr E. Retinal oxygenation and laser treatment in patients with diabetic retinopathy. *Am J Ophthalmol* 1992;113:36–8.
- [793] Weiter JJ, Zuckerman R. The influence of the photoreceptor-RPE complex on the inner retina; an explanation for the beneficial effects of photocoagulation. *Ophthalmology* 1980;87:1133–9.
- [794] Wilson CA, Stefansson E, Klombers L. Optic disk neovascularization and retinal vessel diameter in diabetic retinopathy. *Am J Ophthalmol* 1988;106:131–4.
- [795] Blankenship GW, Macheimer R. Long-term diabetic vitrectomy results; report of 10 year follow-up. *Ophthalmology* 1985;92:503–6.
- [796] Vander JF, Duker JS, Benson WE. Long-term stability and visual outcome after favorable initial response of proliferative diabetic retinopathy to panretinal photocoagulation. *Ophthalmology* 1991;98:1575–9.
- [797] Berger AR, Boniuk I. Bilateral subretinal neovascularization after focal argon laser photocoagulation for diabetic macular edema. *Am J Ophthalmol* 1989;108:88–90.
- [798] Lewis H, Schachat AP, Haimann MH. Choroidal neovascularization after laser photocoagulation for diabetic macular edema. *Ophthalmology* 1990;97:503–11.
- [799] Varley MP, Frank E, Purnell EW. Subretinal neovascularization after focal argon laser for diabetic macular edema. *Ophthalmology* 1988;95:567–73.
- [800] Guyer DR, D'Amico DJ, Smith CW. Subretinal fibrosis after laser photocoagulation for diabetic macular edema. *Am J Ophthalmol* 1992;113:652–6.
- [801] Han DP, Mieler WF, Burton TC. Submacular fibrosis after photocoagulation for diabetic macular edema. *Am J Ophthalmol* 1992;113:513–21.
- [802] Rutledge BK, Wallow IHL, Poulsen GL. Sub-pigment epithelial membranes after photocoagulation for diabetic macular edema. *Arch Ophthalmol* 1993;111:608–13.

- [803] Wallow IHL, Bindley CD. Focal photocoagulation of diabetic macular edema; a clinicopathologic case report. *Retina* 1988;8:261-9.
- [804] Elliott A, Flanagan D. Macular detachment following laser treatment for proliferative diabetic retinopathy. *Graefes Arch Clin Exp Ophthalmol* 1990;228:438-41.
- [805] Schatz H, Madeira D, McDonald HR, et al. Progressive enlargement of laser scars following grid laser photocoagulation for diffuse diabetic macular edema. *Arch Ophthalmol* 1991;109:1549-51.
- [806] Benedett R, Olk RJ, Arribas NP. Transconjunctival anterior retinal cryotherapy for proliferative diabetic retinopathy. *Ophthalmology* 1987;94:612-9.
- [807] Ross WH, Gottner MJ. Peripheral retinal cryopexy for subtotal vitreous hemorrhage. *Am J Ophthalmol* 1988;105:377-82.
- [808] Vernon SA, Cheng H. Panretinal cryotherapy in neovascular disease. *Br J Ophthalmol* 1988;72:401-5.
- [809] Cordido M, Fernández-Vigo J, Fandiño J, et al. Natural evolution of massive vitreous hemorrhage in diabetic retinopathy. *Retina* 1988;8:96-101.
- [810] Flynn Jr HW, Chew EY, Simons BD. Pars plana vitrectomy in the early treatment diabetic retinopathy study; ETDRS report number 17. *Ophthalmology* 1992;99:1351-7.
- [811] Gollamudi SR, Smiddy WE, Schachat AP. Long-term survival rate after vitreous surgery for complications of diabetic retinopathy. *Ophthalmology* 1991;98:18-22.
- [812] Sato Y, Shimada H, Aso S, et al. Vitrectomy for diabetic macular heterotopia. *Ophthalmology* 1994;101:63-7.
- [813] Thompson JT, de Bustros S, Michels RG. Results of vitrectomy for proliferative diabetic retinopathy. *Ophthalmology* 1986;93:1571-4.
- [814] Thompson JT, de Bustros S, Michels RG, et al. Results and prognostic factors in vitrectomy for diabetic traction retinal detachment of the macula. *Arch Ophthalmol* 1987;105:497-502.
- [815] Thompson JT, de Bustros S, Michels RG, et al. Results and prognostic factors in vitrectomy for diabetic vitreous hemorrhage. *Arch Ophthalmol* 1987;105:191-5.
- [816] Miller SA, Butler JB, Myers FL, et al. Pars plana vitrectomy; treatment for tractional macula detachment secondary to proliferative diabetic retinopathy. *Arch Ophthalmol* 1980;98:659-64.
- [817] Rice TA, Michels RG, Rice EF. Vitrectomy for diabetic traction retinal detachment involving the macula. *Am J Ophthalmol* 1983;95:22-33.
- [818] Charles S, Flinn CE. The natural history of diabetic extramacular traction retinal detachment. *Arch Ophthalmol* 1981;99:66-8.
- [819] Blankenship GW, Flynn Jr HW, Kokame GT. Posterior chamber intraocular lens insertion during pars plana lensectomy and vitrectomy for complications of proliferative diabetic retinopathy. *Am J Ophthalmol* 1989;108:1-5.
- [820] Mirshahi A, Shenazandi H, Lashay A, et al. Intravitreal triamcinolone as an adjunct to standard laser therapy in coexisting high-risk proliferative diabetic retinopathy and clinically significant macular edema. *Retina* 2010;30:254-9.
- [821] Cho WB, Moon JW, Kim HC. Intravitreal triamcinolone and bevacizumab as adjunctive treatments to panretinal photocoagulation in diabetic retinopathy. *Br J Ophthalmol* 2010;94:858-63.
- [822] Machemer R, Sugita G, Tano Y. Treatment of intraocular proliferations with intravitreal steroids. *Trans Am Ophthalmol Soc* 1979;77:171-80.
- [823] Silva PS, Sun JK, Aiello LP. Role of steroids in the management of diabetic macular edema and proliferative diabetic retinopathy. *Semin Ophthalmol* 2009;24:93-9.
- [824] Zacks DN, Johnson MW. Combined intravitreal injection of triamcinolone acetonide and panretinal photocoagulation for concomitant diabetic macular edema and proliferative diabetic retinopathy. *Retina* 2005;25:135-40.
- [825] Erdol H, Turk A, Akyol N, et al. The results of intravitreal bevacizumab injections for persistent neovascularizations in proliferative diabetic retinopathy after photocoagulation therapy. *Retina* 2010;30:570-7.
- [826] Yeh PT, Yang CM, Lin YC, et al. Bevacizumab pretreatment in vitrectomy with silicone oil for severe diabetic retinopathy. *Retina* 2009;29:768-74.
- [827] Appen RE, Chandra SR, Klein R, et al. Diabetic papillopathy. *Am J Ophthalmol* 1980;90:203-9.
- [828] Barr CC, Glaser JS, Blankenship G. Acute disc swelling in juvenile diabetes; clinical profile and natural history of 12 cases. *Arch Ophthalmol* 1980;98:2185-92.
- [829] Pavan PR, Aiello LM, Wafai MZ. Optic disc edema in juvenile-onset diabetes. *Arch Ophthalmol* 1980;98:2193-5.
- [830] Stransky TJ. Diabetic papillopathy and proliferative retinopathy. *Graefes Arch Clin Exp Ophthalmol* 1986;224:46-50.
- [831] Dofst BH, Kingley LA, Orchard TJ. The association between long-term diabetic control and early retinopathy. *Ophthalmology* 1984;91:763-9.
- [832] Goldstein DE, Blinder KJ, Ide CH. Glycemic control and development of retinopathy in youth-onset insulin-dependent diabetes mellitus; results of a 12-year longitudinal study. *Ophthalmology* 1993;100:1125-32.
- [833] Kroc Collaborative Study Group. Diabetic retinopathy after two years of intensive insulin treatment; follow-up of the Kroc Collaborative Study. *JAMA* 1988;260:37-41.
- [834] Reichard P, Sule J, Rosenqvist U. Capillary loss and leakage after five years of intensified insulin treatment in patients with insulin-dependent diabetes mellitus. *Ophthalmology* 1991;98:1587-93.
- [835] Diabetes Control and Complications Trial Research Group. The effect of intensive treatment of diabetes on the development and progression of long-term complications in insulin-dependent diabetes mellitus. *N Engl J Med* 1993;329:977-86.
- [836] Gordon B, Chang S, Kavanagh M. The effects of lipid lowering on diabetic retinopathy. *Am J Ophthalmol* 1991;112:385-91.
- [837] Klein BEK, Moss SE, Klein R, et al. The Wisconsin Epidemiologic Study of Diabetic Retinopathy. XIII. Relationship of serum cholesterol to retinopathy and hard exudate. *Ophthalmology* 1991;98:1261-5.
- [838] Sorbinil Retinopathy Trial Research Group. A randomized trial of sorbinil, an aldose reductase inhibitor, in diabetic retinopathy. *Arch Ophthalmol* 1990;108:1234-44.
- [839] TIMAD Study Group. Ticlopidine treatment reduces the progression of nonproliferative diabetic retinopathy. *Arch Ophthalmol* 1990;108:1577-83.
- [840] Perkovich BT, Meyers SM. Systemic factors affecting diabetic macular edema. *J Ophthalmol* 1988;105:211-2.
- [841] Ulbig M, Kampik A, Thurau S. Long-term follow-up of diabetic retinopathy for up to 71 months after combined renal and pancreatic transplantation. *Graefes Arch Clin Exp Ophthalmol* 1991;229:242-5.
- [842] Boone MI, Farber ME, Jovanovic-Peterson L, et al. Increased retinal vascular tortuosity in gestational diabetes mellitus. *Ophthalmology* 1989;96:251-4.
- [843] Johnston GP. Pregnancy and diabetic retinopathy. *Am J Ophthalmol* 1980;90:519-24.
- [844] Moloney JBM, Drury MI. The effect of pregnancy on the natural course of diabetic retinopathy. *Am J Ophthalmol* 1982;93:745-56.
- [845] Sinclair SH, Nesler C, Foxman B. Macular edema and pregnancy



- in insulin-dependent diabetes. *Am J Ophthalmol* 1984;97:154-67.
- [846] Gray RS, Starkey IR, Rainbow S. HLA antigens and other risk factors in the development of retinopathy in type 1 diabetes. *Br J Ophthalmol* 1982;66:280-5.
- [847] Johnston PB, Kidd M, Middleton D. Analysis of HLA antigen association with proliferative diabetic retinopathy. *Br J Ophthalmol* 1982;66:277-9.
- [848] Klein R, Klein BEK, Moss SE. Diabetes, hyperglycemia and age-related maculopathy; the Beaver Dam Study. *Ophthalmology* 1992;99:1527-34.
- [849] Zhang X, Saaddine JB, Chou CF, et al. Prevalence of diabetic retinopathy in the United States, 2005-2008. *JAMA* 2010;304:649-56.
- [850] Rigoli L, Lombardo F, Di Bella C. Wolfram syndrome and WFS1 gene. *Clin Genet* 2011;79(Feb):103-17.
- [851] Barrett TG, Bunday SE, Fielder AR, et al. Optic atrophy in Wolfram (DIDMOAD) syndrome. *Eye (Lond)* 1997;11:882-8.
- [852] Van den Bergh L, Zeyen T, Verhelst J, et al. Wolfram syndrome: a clinical study of two cases. *Doc Ophthalmol* 1993;84:119-26.
- [853] Mets RB, Emery SB, Lesperance MM, et al. Congenital cataracts in two sibs with Wolfram syndrome. *Ophthalmic Genet* 2010;31:227-9.
- [854] Dhalla MS, Desai UR, Zuckerbrod DS. Pigmentary maculopathy in a patient with Wolfram syndrome. *Can J Ophthalmol* 2006;41:38-40.
- [855] Kinsley BT, Swift M, Dumont RH, et al. Morbidity and mortality in the Wolfram syndrome. *Diabetes Care* 1995;18:1566-70.
- [856] Amoaku WMK, Archer DB. Cephalic radiation and retinal vasculopathy. *Eye* 1990;4:195-203.
- [857] Amoaku WMK, Archer DB. Fluorescein angiographic features, natural course and treatment of radiation retinopathy. *Eye* 1990;4:657-67.
- [858] Bagan SM, Hollenhorst RW. Radiation retinopathy after irradiation of intracranial lesions. *Am J Ophthalmol* 1979;88:694-7.
- [859] Bedford MA, Bedotto C, MacFaul PA, et al. Radiation retinopathy after the application of a cobalt plaque. *Br J Ophthalmol* 1970;54:505-9.
- [860] Brown GC, Shields JA, Sanborn G. Radiation optic neuropathy. *Ophthalmology* 1982;89:1489-93.
- [861] Brown GC, Shields JA, Sanborn G. Radiation retinopathy. *Ophthalmology* 1982;89:1494-501.
- [862] Chaudhuri PR, Austin DJ, Rosenthal AR. Treatment of radiation retinopathy. *Br J Ophthalmol* 1981;65:623-5.
- [863] Chee PHY. Radiation retinopathy. *Am J Ophthalmol* 1968;66:860-5.
- [864] Egbert PR, Fajardo LF, Donaldson SS, et al. Posterior ocular abnormalities after irradiation for retinoblastoma: a histopathological study. *Br J Ophthalmol* 1980;64:660-5.
- [865] Fitzgerald CR, Enoch JM, Temme LA. Radiation therapy in and about the retina, optic nerve, and anterior visual pathway; psychophysical assessment. *Arch Ophthalmol* 1981;99:611-23.
- [866] Gragoudas ES, Zakov NZ, Albert DM, et al. Long-term observations of proton-irradiated monkey eyes. *Arch Ophthalmol* 1979;97:2184-91.
- [867] Guyer DR, Mukai S, Egan KM. Radiation maculopathy after proton beam irradiation for choroidal melanoma. *Ophthalmology* 1992;99:1278-85.
- [868] Hayreh SS. Post-radiation retinopathy; a fluorescence fundus angiographic study. *Br J Ophthalmol* 1970;54:705-14.
- [869] Hudgins PA, Newman NJ, Dillon WP, et al. Radiation-induced optic neuropathy: characteristic appearances on gadolinium-enhanced MR. *AJNR* 1992;13:235-8.
- [870] Kinyoun JL, Chittum ME, Wells CG. Photocoagulation treatment of radiation retinopathy. *Am J Ophthalmol* 1988;105:470-8.
- [871] Midena E, Segato T, Piermarocchi S. Retinopathy following radiation therapy of paranasal sinus and nasopharyngeal carcinoma. *Retina* 1987;7:142-7.
- [872] Miller ML, Goldberg SH, Bullock JD. Radiation retinopathy after standard radiotherapy for thyroid-related ophthalmopathy. *Am J Ophthalmol* 1991;112:600-1.
- [873] Noble KG, Kupersmith MJ. Retinal vascular remodelling in radiation retinopathy. *Br J Ophthalmol* 1984;68:475-8.
- [874] Roden DBT, Fowble B. Delayed radiation injury to the retrobulbar optic nerves and chiasm; clinical syndrome and treatment with hyperbaric oxygen and corticosteroids. *Ophthalmology* 1990;97:346-51.
- [875] Shukovsky LJ, Fletcher GH. Retinal and optic nerve complications in a high dose irradiation technique of ethmoid sinus and nasal cavity. *Radiology* 1972;104:629-34.
- [876] Tomsak RL, Smith JL. Radiation retinopathy in a patient with lung carcinoma metastatic to brain. *Ann Ophthalmol* 1980;12:619-22.
- [877] Boozalis GT, Schachat AP, Green WR. Subretinal neovascularization from the retina in radiation retinopathy. *Retina* 1987;7:156-61.
- [878] Archer DB, Amoaku WMK, Gardiner TA. Radiation retinopathy - clinical, histopathological, ultrastructural and experimental correlations. *Eye* 1991;5:239-51.
- [879] Atsumi O, Sakuraba T, Kimura S. A case of presumed radiation optic neuropathy. *Acta Soc Ophthalmol Jpn* 1991;95:504-10.
- [880] Borruat F-X, Schatz NJ, Glaser JS. Visual recovery from radiation-induced optic neuropathy. *J Clin Neuro-Ophthalmol* 1993;13:98-101.
- [881] Kline LB, Kim JY, Ceballos R. Radiation optic neuropathy. *Ophthalmology* 1985;92:1118-26.
- [882] Lovato AA, Char DH, Quivey JM, et al. Evaluation of acute radiation optic neuropathy by B-scan ultrasonography. *Am J Ophthalmol* 1990;110:233-6.
- [883] Young WC, Thornton AF, Gebarski SS, et al. Radiation-induced optic neuropathy: correlation of MR imaging and radiation dosimetry. *Radiology* 1992;185:904-7.
- [884] Zimmerman CF, Schatz NJ, Glaser JS. Magnetic resonance imaging of radiation optic neuropathy. *Am J Ophthalmol* 1990;110:389-94.
- [885] Elmassri A. Radiation chorioretinopathy. *Br J Ophthalmol* 1986;70:326-9.
- [886] Gall N, Leiba H, Handzel R, et al. Severe radiation retinopathy and optic neuropathy after brachytherapy for choroidal melanoma, treated by hyperbaric oxygen. *Eye (Lond)* 2007;21:1010-2.
- [887] Finger PT, Kurli M. Laser photocoagulation for radiation retinopathy after ophthalmic plaque radiation therapy. *Br J Ophthalmol* 2005;89:730-8.
- [888] Finger PT. Tumour location affects the incidence of cataract and retinopathy after ophthalmic plaque radiation therapy. *Br J Ophthalmol* 2000;84:1068-70.
- [889] Gunduz K, Shields CL, Shields JA, et al. Radiation retinopathy following plaque radiotherapy for posterior uveal melanoma. *Arch Ophthalmol* 1999;117:609-14.
- [890] Irvine AR, Wood IS. Radiation retinopathy as an experimental model for ischemic proliferative retinopathy and rubeosis iridis. *Am J Ophthalmol* 1987;103:790-7.
- [891] Guy J, Schatz NJ. Hyperbaric oxygen in the treatment of radiation-induced optic neuropathy. *Ophthalmology* 1986;93:1083-8.
- [892] Finger RP, Charbel Issa P, Ladewig M, et al. Intravitreal bevacizumab for choroidal neovascularisation associated with

- pseudoxanthoma elasticum. *Br J Ophthalmol* 2008;92:483–7.
- [893] Arriola-Villalobos P, Donate-Lopez J, Calvo-Gonzalez C, et al. Intravitreal bevacizumab (Avastin) for radiation retinopathy neovascularization. *Acta Ophthalmol* 2008;86:115–6.
- [894] Finger PT, Chin K. Anti-vascular endothelial growth factor bevacizumab (avastin) for radiation retinopathy. *Arch Ophthalmol* 2007;125:751–6.
- [895] Duker JS, Brown GC, Ballas SK. Peripheral retinal neovascularization associated with hemoglobin C B<sup>0</sup> thalassemia. *Am J Ophthalmol* 1989;108:328–9.
- [896] Condon PI, Serjeant GR. Photocoagulation and diathermy in the treatment of proliferative sickle retinopathy. *Br J Ophthalmol* 1974;58:650–62.
- [897] Condon PI, Serjeant GR. Ocular findings in elderly cases of homozygous sickle-cell disease in Jamaica. *Br J Ophthalmol* 1976;60:361–4.
- [898] Condon PI, Serjeant GR. Behaviour of untreated proliferative sickle retinopathy. *Br J Ophthalmol* 1980;64:404–11.
- [899] Condon PI, Serjeant GR. Photocoagulation in proliferative sickle retinopathy: results of a 5-year study. *Br J Ophthalmol* 1980;64:832–40.
- [900] Cruess AF, Stephens RF, Magargal LE, et al. Peripheral circumferential retinal scatter photocoagulation for treatment of proliferative sickle retinopathy. *Ophthalmology* 1983;90:272–8.
- [901] Eagle Jr RC, Yanoff M, Fine BS. Hemoglobin SC retinopathy and fat emboli to the eye; a light and electron microscopical study. *Arch Ophthalmol* 1974;92:28–32.
- [902] Fox PD, Dunn DT, Morris JS, et al. Risk factors for proliferative sickle retinopathy. *Br J Ophthalmol* 1990;74:172–6.
- [903] Gagliano DA, Goldberg MF. The evolution of salmon-patch hemorrhages in sickle cell retinopathy. *Arch Ophthalmol* 1989;107:1814.
- [904] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 278.
- [905] Goldberg MF. Classification and pathogenesis of proliferative sickle retinopathy. *Am J Ophthalmol* 1971;71:649–65.
- [906] Goldberg MF. Natural history of untreated proliferative sickle retinopathy. *Arch Ophthalmol* 1971;85:428–37.
- [907] Goldberg MF. Retinal neovascularization in sickle cell retinopathy. *Trans Am Acad Ophthalmol Otolaryngol* 1977;83:OP409–OP431.
- [908] Goldberg MF, Galinos S, Lee C-B. Macular ischemia and infarction in sickling. *Invest Ophthalmol* 1973;12:633–5.
- [909] Kimmel AS, Magargal LE, Maizel R, et al. Proliferative sickle cell retinopathy under age 20: a review. *Ophthalmic Surg* 1987;18:126–8.
- [910] Knapp JW. Isolated macular infarction in sickle cell (SS) disease. *Am J Ophthalmol* 1972;73:857–9.
- [911] Nagpal KC, Goldberg MF, Rabb MF. Ocular manifestations of sickle haemoglobinopathies. *Surv Ophthalmol* 1977;21:391–411.
- [912] Raichand M, Goldberg MF, Nagpal KC. Evolution of neovascularization in sickle cell retinopathy; a prospective fluorescein angiographic study. *Arch Ophthalmol* 1977;95:1543–52.
- [913] Talbot JF, Bird AC, Maude GH. Sickle cell retinopathy in Jamaican children: further observations from a cohort study. *Br J Ophthalmol* 1988;72:727–32.
- [914] Talbot JF, Bird AC, Serjeant GR, et al. Sickle cell retinopathy in young children in Jamaica. *Br J Ophthalmol* 1982;66:149–54.
- [915] Sanders RJ, Brown GC, Rosenstein RB, et al. Foveal avascular zone diameter and sickle cell disease. *Arch Ophthalmol* 1991;109:812–5.
- [916] Clarkson JG. The ocular manifestations of sickle-cell disease: a prevalence and natural history study. *Trans Am Ophthalmol Soc* 1992;90:481–504.
- [917] Fox PD, Vessey SJR, Forshaw ML, et al. Influence of genotype on the natural history of untreated proliferative sickle retinopathy – an angiographic study. *Br J Ophthalmol* 1991;75:229–31.
- [918] Lee CM, Charles HC, Smith RT. Quantification of macular ischaemia in sickle cell retinopathy. *Br J Ophthalmol* 1987;71:540–5.
- [919] van Meurs JC. Relationship between peripheral vascular closure and proliferative retinopathy in sickle cell disease. *Graefes Arch Clin Exp Ophthalmol* 1991;229:543–8.
- [920] Khwarg SG, Feldman S, Ligh J, et al. Exchange transfusion in sickling maculopathy. *Retina* 1985;5:227–9.
- [921] Merritt JC, Risco JM, Pantell JP. Bilateral macular infarction in SS disease. *J Pediatr Ophthalmol Strabismus* 1982;19:275–8.
- [922] Asdourian GK, Goldberg MF, Rabb MF. Macular infarction in sickle cell B 1 thalassemia. *Retina* 1982;2:155–8.
- [923] Asdourian GK, Nagpal KC, Busse B. Macular and perimacular vascular remodelling in sickling haemoglobinopathies. *Br J Ophthalmol* 1976;60:431–53.
- [924] Stevens TS, Busse B, Lee C-B. Sickling hemoglobinopathies; macular and perimacular vascular abnormalities. *Arch Ophthalmol* 1974;92:455–63.
- [925] Acacio I, Goldberg MF. Peripapillary and macular vessel occlusions in sickle cell anemia. *Am J Ophthalmol* 1973;75:861–6.
- [926] Raichand M, Dizon RV, Nagpal KC. Macular holes associated with proliferative sickle cell retinopathy. *Arch Ophthalmol* 1978;96:1592–6.
- [927] Frank RN, Cronin MA. Posterior pole neovascularization in a patient with hemoglobin SC disease. *Am J Ophthalmol* 1979;88:680–2.
- [928] Jampol LM, Goldberg MF. Retinal breaks after photocoagulation of proliferative sickle cell retinopathy. *Arch Ophthalmol* 1980;98:676–9.
- [929] Bergren RL, Brown GC. Neovascular glaucoma secondary to sickle-cell retinopathy. *Am J Ophthalmol* 1992;113:718–9.
- [930] Perlman JI, Forman S, Gonzalez ER. Retrobulbar ischemic optic neuropathy associated with sickle cell disease. *J Neuro Ophthalmol* 1994;14:45–8.
- [931] Durant WJ, Jampol LM, Daily M. Exudative retinal detachment in hemoglobin SC disease. *Retina* 1982;2:152–4.
- [932] Carney MD, Jampol LM. Epiretinal membranes in sickle cell retinopathy. *Arch Ophthalmol* 1987;105:214–7.
- [933] Moriarty BJ, Acheson RW, Serjeant GR. Epiretinal membranes in sickle cell disease. *Br J Ophthalmol* 1987;71:466–9.
- [934] Moriarty BJ, Acheson RW, Condon PI, et al. Patterns of visual loss in untreated sickle cell retinopathy. *Eye* 1988;2:330–5.
- [935] Moriarty BJ, Webb DK, Serjeant GR. Treatment of subretinal neovascularization associated with angioid streaks in sickle cell retinopathy. *Arch Ophthalmol* 1987;105:1327–8.
- [936] Nagpal KC, Asdourian G, Goldbaum M. Angioid streaks and sickle haemoglobinopathies. *Br J Ophthalmol* 1976;60:31–4.
- [937] Ober RR, Michels RG. Optic disk neovascularization in hemoglobin SC disease. *J Ophthalmol* 1978;85:711–4.
- [938] McLeod DS, Goldberg MF, Luttly GA. Dual-perspective analysis of vascular formations in sickle cell retinopathy. *Arch Ophthalmol* 1993;111:1234–45.
- [939] Liang JC, Jampol LM. Spontaneous peripheral chorioretinal neovascularisation in association with sickle cell anaemia. *Br J Ophthalmol* 1983;67:107–10.
- [940] Dizon RV, Jampol LM, Goldberg MF, et al. Choroidal occlusive disease in sickle cell hemoglobinopathies. *Surv Ophthalmol* 1979;23:297–306.
- [941] Goldbaum MH, Galinos SO, Apple D. Acute choroidal ischemia

- as a complication of photocoagulation. *Arch Ophthalmol* 1976;94:1025-35.
- [942] Galinos SO, Smith TR, Brockhurst RJ. Angioma-like lesion in hemoglobin sickle cell disease. *Ann Ophthalmol* 1979;11:1549-52.
- [943] Goldberg MF. The diagnosis and treatment of secondary glaucoma after hyphema in sickle cell patients. *Am J Ophthalmol* 1979;87:43-9.
- [944] Radius RL, Finkelstein D. Central retinal artery occlusion (reversible) in sickle trait with glaucoma. *Br J Ophthalmol* 1976;60:428-30.
- [945] Wax MB, Ridley ME, Magargal LE. Reversal of retinal and optic disc ischemia in a patient with sickle cell trait and glaucoma secondary to traumatic hyphema. *Ophthalmology* 1982;89:845-51.
- [946] Slavin ML, Barondes MJ. Ischemic optic neuropathy in sickle cell disease. *Am J Ophthalmol* 1988;105:212-3.
- [947] Goldbaum MH, Jampol LM, Goldberg MF. The disc sign in sickling hemoglobinopathies. *Arch Ophthalmol* 1978;96:1597-600.
- [948] Goldbaum MH. Retinal depression sign indicating a small retinal infarct. *Am J Ophthalmol* 1978;86:45-55.
- [949] Condon PI, Serjeant GR. Ocular findings in sickle cell-haemoglobin O Arab disease. *Br J Ophthalmol* 1979;63:839-41.
- [950] Daneshmend TK. Ocular findings in a case of haemoglobin H disease. *Br J Ophthalmol* 1979;63:842-4.
- [951] Gartaganis S, Ismiridis K, Papageorgiou O. Ocular abnormalities in patients with  $\beta$  thalassemia. *Am J Ophthalmol* 1989;108:699-703.
- [952] Peachey NS, Charles HC, Lee CM. Electroretinographic findings in sickle cell retinopathy. *Arch Ophthalmol* 1987;105:934-8.
- [953] Peachy NS, Gagliano DA, Jacobson MS. Correlation of electroretinographic findings and peripheral retinal nonperfusion in patients with sickle cell retinopathy. *Arch Ophthalmol* 1990;108:1106-9.
- [954] Roy MS, Rodgers G, Gunkel R. Color vision defects in sickle cell anemia. *Arch Ophthalmol* 1987;105:1676-8.
- [955] van Meurs JC, Schwoerer J, Schwartz B. Retinal vessel autoregulation in sickle cell patients. *Graefes Arch Clin Exp Ophthalmol* 1992;230:442-5.
- [956] Nagpal KC, Patrianakos D, Asdourian GK. Spontaneous regression (autoinfarction) of proliferative sickle retinopathy. *Am J Ophthalmol* 1975;80:885-92.
- [957] Farber MD, Jampol LM, Fox P. A randomized clinical trial of scatter photocoagulation of proliferative sickle cell retinopathy. *Arch Ophthalmol* 1991;109:363-7.
- [958] Jacobson MS, Gagliano DA, Cohen SB. A randomized clinical trial of feeder vessel photocoagulation of sickle cell retinopathy. *Ophthalmology* 1991;98:581-5.
- [959] Jampol LM, Condon P, Farber M. A randomized clinical trial of feeder vessel photocoagulation of proliferative sickle cell retinopathy. I. Preliminary results. *Ophthalmology* 1983;90:540-5.
- [960] Jampol LM, Farber M, Rabb MF, et al. An update on techniques of photocoagulation treatment of proliferative sickle cell retinopathy. *Eye* 1991;5:260-3.
- [961] Kimmel AS, Magargal LE, Stephens RF, et al. Peripheral circumferential retinal scatter photocoagulation for the treatment of proliferative sickle retinopathy; an update. *Ophthalmology* 1986;93:1429-34.
- [962] Rednam KRV, Jampol LM, Goldberg MF. Scatter retinal photocoagulation for proliferative sickle cell retinopathy. *Am J Ophthalmol* 1982;93:594-9.
- [963] Dizon-Moore RV, Jampol LM, Goldberg MF. Chorioretinal and choriovitreal neovascularization; their presence after photocoagulation of proliferative sickle cell retinopathy. *Arch Ophthalmol* 1981;99:842-9.
- [964] Fox PD, Acheson RW, Serjeant GR. Outcome of iatrogenic choroidal neovascularisation in sickle cell disease. *Br J Ophthalmol* 1990;74:417-20.
- [965] Acheson RW, Fox PD, Chuang EL, et al. Treatment of iatrogenic choriovitreal neovascularization in sickle cell disease. *Br J Ophthalmol* 1991;75:729-30.
- [966] Carney MD, Paylor RR, Cunha-Vaz JG. Iatrogenic choroidal neovascularization in sickle cell retinopathy. *Ophthalmology* 1986;93:1163-8.
- [967] Condon PI, Jampol LM, Ford SM, et al. Choroidal neovascularisation induced by photocoagulation in sickle cell disease. *Br J Ophthalmol* 1981;65:192-7.
- [968] Hrisomalos NF, Jampol LM, Moriarty BJ. Neodymium-YAG laser vitreolysis in sickle cell retinopathy. *Arch Ophthalmol* 1987;105:1087-91.
- [969] Jampol LM, Green Jr JL, Goldberg MF, et al. An update on vitrectomy surgery and retinal detachment repair in sickle cell disease. *Arch Ophthalmol* 1982;100:591-3.
- [970] Pulido JS, Flynn Jr HW, Clarkson JG, et al. Pars plana vitrectomy in the management of complications of proliferative sickle retinopathy. *Arch Ophthalmol* 1988;106:1553-7.
- [971] Weissman H, Nadel AJ, Dunn M. Simultaneous bilateral retinal arterial occlusions treated by exchange transfusions. *Arch Ophthalmol* 1979;97:2151-3.
- [972] Goldbaum MH. Retinal depression sign indicating a small retinal infarct. *Am J Ophthalmol* 1978;86:45-55.
- [973] Lima CS, Rocha EM, Silva NM, et al. Risk factors for conjunctival and retinal vessel alterations in sickle cell disease. *Acta Ophthalmol Scand* 2006;84:234-41.
- [974] Bigar F, Witmer R. Progrediente aneurysmatische retinale Arteriopathie. *Fortschr Ophthalmol* 1983;79:488-91.
- [975] Boase DL, Gale RE, Huehns ER. Oxygen dissociation curve in Eales's disease. *Br J Ophthalmol* 1980;64:745-50.
- [976] Eales H. Primary retinal haemorrhage in young men. *Ophthalmic Rev* 1882;1:41-6.
- [977] Elliot AJ. 30-year observation of patients with Eales's disease. *Am J Ophthalmol* 1975;80:404-8.
- [978] Ffytche TJ. Retinal vasculitis; a review of the clinical signs. *Trans Ophthalmol Soc UK* 1977;97:457-61.
- [979] Karel I, Votocková J, Peleska M. Fluorescence angiography in unusual forms of idiopathic retinal vasculitis. *Ophthalmologica* 1974;168:446-61.
- [980] Savir H, Wender T, Creter D, et al. Bilateral retinal vasculitis associated with clotting disorders. *Am J Ophthalmol* 1977;84:542-7.
- [981] Sinclair SH, Meredith TA. Posterior epiretinal neovascularization associated with sectoral retinal ischemia. *Retina* 1983;3:188-93.
- [982] Spitznas M, Meyer-Schwickerath G, Stephan B. The clinical picture of Eales' disease. *Albrecht von Graefes Arch Klin Exp Ophthalmol* 1975;194:73-85.
- [983] Gordon MF, Coyle PK, Golub B. Eales' disease presenting as stroke in the young adult. *Ann Neurol* 1988;24:264-6.
- [984] Renie WA, Murphy RP, Anderson KC. The evaluation of patients with Eales' disease. *Retina* 1983;3:243-8.
- [985] Sen DK, Sarin GS, Ghosh B. Serum alpha-1 acid glycoprotein levels in patients with idiopathic peripheral retinal vasculitis (Eales' disease). *Acta Ophthalmol* 1992;70:515-7.
- [986] Rengarajan K, Muthukkaruppan VR, Namperumalsamy P. Biochemical analysis of serum proteins from Eales' patients. *Curr Eye Res* 1989;8:1259-69.
- [987] Arnold AC, Pepose JS, Hepler RS, et al. Retinal periphlebitis

- and retinitis in multiple sclerosis. I. Pathologic characteristics. *Ophthalmology* 1984;91:255-62.
- [988] Bertram B, Wolf S, Hof A. Rheologische Befunde bei Patienten mit Morbus Eales. *Klin Monatsbl Augenheilkd* 1989;195:254-6.
- [989] François P, Asseman R, Leroyer. Hémorragies récidivantes et sclérose en plaques. *Bull Mem Soc Fr Ophthalmol* 1960;73:160-9.
- [990] Francoz-Taillanter N, Pingault C. Periphlebitis rétiniennes et occlusions capillaires extensives au cours d'une sclérose multiloculaire. *Bull Soc Ophthalmol Fr* 1981;81:699-701.
- [991] Guigui A, Brezin A, Gaudric A. Hémorragie vitreuse et prolifération neo-vasculaire au cours d'une sclérose en plaques. *Bull Soc Ophthalmol Fr* 1989;89:501-5.
- [992] Masson C, Denis P, Prier S. Maladie de Eales avec troubles neurologiques. *Rev Neurol* 1988;144:817-9.
- [993] Morse PH. Retinal venous sheathing and neovascularization in disseminated sclerosis. *Ann Ophthalmol* 1975;7:949-52.
- [994] Vine AK. Severe periphlebitis, peripheral retinal ischemia, and preretinal neovascularization in patients with multiple sclerosis. *Am J Ophthalmol* 1992;113:28-32.
- [995] Pomonis E, Triantafyllidis JK, Tjenaki M, et al. Report of Eales' disease and ulcerative colitis in the same patient. *Am J Gastroenterol* 1992;87:1531-2.
- [996] Ashton N. Oxygen and the retinal blood vessels. *Trans Ophthalmol Soc UK* 1980;100:359-62.
- [997] Ashton N, Ward B, Serpell G. Role of oxygen in the genesis of retrolental fibroplasia; a preliminary report. *Br J Ophthalmol* 1953;37:513-20.
- [998] Campbell K. Intensive oxygen therapy as a possible cause of retrolental fibroplasia: a clinical approach. *Med J Aust* 1951;2:48-50.
- [999] Cryotherapy for Retinopathy of Prematurity Cooperative Group. The natural ocular outcome of premature birth and retinopathy; status at 1 year. *Arch Ophthalmol* 1994;112:903-12.
- [1000] Fielder AR, Shaw DE, Robinson J, et al. Natural history of retinopathy of prematurity: a prospective study. *Eye* 1992;6:233-42.
- [1001] Fletcher MC, Brandon S. Myopia of prematurity. *Am J Ophthalmol* 1955;40:474-81.
- [1002] Flynn JT, Bancalari E, Bachynski BN. Retinopathy of prematurity; diagnosis, severity, and natural history. *Ophthalmology* 1987;94:620-9.
- [1003] Flynn JT, Cassady J, Essner D. Fluorescein angiography in retrolental fibroplasia: experience from 1969-1977. *Ophthalmology* 1979;86:1700-23.
- [1004] Flynn JT, O'Grady GE, Herrera J. Retrolental fibroplasia. I. Clinical observations. *Arch Ophthalmol* 1977;95:217-23.
- [1005] Gaton DD, Gold J, Axer-Siegel R. Evaluation of bilirubin as possible protective factor in the prevention of retinopathy of prematurity. *Br J Ophthalmol* 1991;75:532-4.
- [1006] Glass P, Avery GB, Subramanian KNS. Effect of bright light in the hospital nursery on the incidence of retinopathy of prematurity. *N Engl J Med* 1985;313:401-4.
- [1007] Hammer ME, Mullen PW, Ferguson JG. Logistic analysis of risk factors in acute retinopathy of prematurity. *Am J Ophthalmol* 1986;102:1-6.
- [1008] Hendrickson AE, Yuodelis C. The morphological development of the human fovea. *Ophthalmology* 1984;91:603-12.
- [1009] Kinsey VE. Retrolental fibroplasia; cooperative study of retrolental fibroplasia and the use of oxygen. *Arch Ophthalmol* 1956;56:481-543.
- [1010] Palmer EA. Optimal timing of examination for acute retrolental fibroplasia. *Ophthalmology* 1981;88:662-8.
- [1011] Palmer EA, Flynn JT, Hardy RJ, et al. Incidence and early course of retinopathy of prematurity. *Ophthalmology* 1991;98:1628-40.
- [1012] Schulenburg WE, Prendiville A, Ohri R. Natural history of retinopathy of prematurity. *Br J Ophthalmol* 1987;71:837-43.
- [1013] Tasman W. Vitreoretinal changes in cicatricial retrolental fibroplasia. *Trans Am Ophthalmol Soc* 1970;68:548-94.
- [1014] Terry TL. Extreme prematurity and fibroblastic overgrowth of persistent vascular sheath behind each crystalline lens. I. Preliminary report. *Am J Ophthalmol* 1942;25:203-4.
- [1015] International committee for the classification of the late stages of retinopathy of prematurity: an international classification of retinopathy of prematurity. II. The classification of retinal detachment. *Arch Ophthalmol* 1987;105:906-12.
- [1016] Repka MX, Summers CG, Palmer EA, et al. The incidence of ophthalmologic interventions in children with birth weights less than 1251 grams. Results through 5 1/2 years. Cryotherapy for Retinopathy of Prematurity Cooperative Group. *Ophthalmology* 1998;105:1621-7.
- [1017] Flynn JT. An international classification of retinopathy of prematurity; clinical experience. *Ophthalmology* 1985;92:987-94.
- [1018] Garoon I, Epstein G, Segall M. Vascular tufts in retrolental fibroplasia. *Ophthalmology* 1980;87:1128-32.
- [1019] Foos RY. Retinopathy of prematurity; pathologic correlation of clinical stages. *Retina* 1987;7:260-76.
- [1020] Barr CC, Rice TA, Michels RG. Angioma-like mass in a patient with retrolental fibroplasia. *Am J Ophthalmol* 1980;89:647-50.
- [1021] Nissenkorn I, Kremer I, Cohen S, et al. Nasal versus temporal preretinal vasoproliferation in retinopathy of prematurity. *Br J Ophthalmol* 1989;73:747-9.
- [1022] Hartnett ME, Gilbert MM, Richardson TM. Anterior segment evaluation of infants with retinopathy of prematurity. *Ophthalmology* 1990;97:122-30.
- [1023] The International Classification of Retinopathy of Prematurity revisited. *Arch Ophthalmol* 2005;123:991-99.
- [1024] Kushner BJ. Strabismus and amblyopia associated with regressed retinopathy of prematurity. *Arch Ophthalmol* 1982;100:256-61.
- [1025] Rados WT, Scholz RO. Pseudostrabismus with heterotopia of the macula. *Am J Ophthalmol* 1958;45:683-92.
- [1026] Rankin SJA, Tubman TRJ, Halliday HL, et al. Retinopathy of prematurity in surfactant treated infants. *Br J Ophthalmol* 1992;76:202-4.
- [1027] Tysinger Jr JW, Weidenthal DT. Nasal heterotopia of the macula in retinopathy of prematurity. *Am J Ophthalmol* 1977;83:499-500.
- [1028] Gallo JE, Holmström G, Kugelberg U. Regressed retinopathy of prematurity and its sequelae in children aged 5-10 years. *Br J Ophthalmol* 1991;75:527-31.
- [1029] Isenberg SJ. Macular development in the premature infant. *Am J Ophthalmol* 1986;101:74-80.
- [1030] Johnson BL, Ahdab-Barmada M. Hyperoxemic retinal neuronal necrosis in the premature neonate. *Am J Ophthalmol* 1986;102:423-30.
- [1031] Hindle NW. Macular pigment epitheliopathy in retinopathy of prematurity. *Arch Ophthalmol* 1993;111:298.
- [1032] Tasman W, Brown GC. Progressive visual loss in adults with retinopathy of prematurity (ROP). *Graefes Arch Clin Exp Ophthalmol* 1989;227:309-11.
- [1033] Greven CM, Tasman W. Rhegmatogenous retinal detachment following cryotherapy in retinopathy of prematurity. *Arch Ophthalmol* 1989;107:1017-8.
- [1034] McPherson AR, Mintz Hittner H, Lemos R. Retinal detachment in young premature infants with acute retrolental fibroplasia;



- thirty-two new cases. *Ophthalmology* 1982;89:1160-9.
- [1035] Mintz-Hittner HA, Kretzer FL. Postnatal retinal vascularization in former preterm infants with retinopathy of prematurity. *Ophthalmology* 1994;101:548-58.
- [1036] Schaffer DB, Quinn GE, Johnson L. Sequelae of arrested mild retinopathy of prematurity. *Arch Ophthalmol* 1984;102:373-6.
- [1037] Tasman W. Late complications of retrolental fibroplasia. *Ophthalmology* 1979;86:1724-40.
- [1038] Zilis JD, de Juan E, Machemer R. Advanced retinopathy of prematurity; the anatomic and visual results of vitreous surgery. *Ophthalmology* 1990;97:821-6.
- [1039] Tasman W. Exudative retinal detachment in retrolental fibroplasia. *Trans Am Acad Ophthalmol Otolaryngol* 1977;83:OP535-OP540.
- [1040] Recchia FM, Recchia CC. Foveal dysplasia evident by optical coherence tomography in patients with a history of retinopathy of prematurity. *Retina* 2007;27:1221-6.
- [1041] Wald KJ, Hirose T, Topilow H. Ectodermal dysplasia, ectrodactyly, and clefting syndrome and bilateral retinal detachment. *Arch Ophthalmol* 1993;111:734.
- [1042] Kushner BJ, Gloeckner E. Retrolental fibroplasia in full-term infants without exposure to supplemental oxygen. *Am J Ophthalmol* 1984;97:148-53.
- [1043] Reynolds JD, Hardy RJ, Kennedy KA, et al. Lack of efficacy of light reduction in preventing retinopathy of prematurity. Light Reduction in Retinopathy of Prematurity (LIGHT-ROP) Cooperative Group. *N Engl J Med* 1998;338:1572-6.
- [1044] Wright KW, Sami D, Thompson L, et al. A physiologic reduced oxygen protocol decreases the incidence of threshold retinopathy of prematurity. *Trans Am Ophthalmol Soc* 2006;104:78-84.
- [1045] Chow LC, Wright KW, Sola A. Can changes in clinical practice decrease the incidence of severe retinopathy of prematurity in very low birth weight infants? *Pediatrics* 2003;111:339-45.
- [1046] Sears JE, Pietz J, Sonnie C, et al. A change in oxygen supplementation can decrease the incidence of retinopathy of prematurity. *Ophthalmology* 2009;116:513-8.
- [1047] Multicenter trial of cryotherapy for retinopathy of prematurity. Preliminary results. Cryotherapy for Retinopathy of Prematurity Cooperative Group. *Arch Ophthalmol* 1988;106:471-79.
- [1048] Reynolds JD, Dobson V, Quinn GE, et al. Evidence-based screening criteria for retinopathy of prematurity: natural history data from the CRYO-ROP and LIGHT-ROP studies. *Arch Ophthalmol* 2002;120:1470-6.
- [1049] Kushner BJ, Essner D, Cohen IJ, et al. Retrolental fibroplasia. II. Pathologic correlation. *Arch Ophthalmol* 1977;95:29-38.
- [1050] Quiroz-Mercado H, Martinez-Castellanos MA, Hernandez-Rojas ML, et al. Antiangiogenic therapy with intravitreal bevacizumab for retinopathy of prematurity. *Retina* 2008;28(Suppl.):S19-25.
- [1051] Recchia FM, Capone Jr A. Contemporary understanding and management of retinopathy of prematurity. *Retina* 2004;24:283-92.
- [1052] Martin DF, de Juan Jr E. Spontaneous retinal reattachment in stage 5 retinopathy of prematurity. *Arch Ophthalmol* 1992;110:453-4.
- [1053] Barondes MJ, Hamilton AM. Optic disc neovascularization in dominant exudative vitreoretinopathy. *Retina* 1989;9:270-5.
- [1054] Boldrey EE, Egbert P, Gass JDM, et al. The histopathology of familial exudative vitreoretinopathy; a report of two cases. *Arch Ophthalmol* 1985;103:238-41.
- [1055] Brockhurst RJ, Albert DM, Zakov ZN. Pathologic findings in familial exudative vitreoretinopathy. *Arch Ophthalmol* 1981;99:2143-6.
- [1056] Canny CLB, Oliver GL. Fluorescein angiographic findings in familial exudative vitreoretinopathy. *Arch Ophthalmol* 1976;94:1114-20.
- [1057] Chaudhuri PR, Rosenthal AR, Goulstine DB, et al. Familial exudative vitreoretinopathy associated with familial thrombocytopathy. *Br J Ophthalmol* 1983;67:755-8.
- [1058] Criswick VG, Schepens CL. Familial exudative vitreoretinopathy. *Am J Ophthalmol* 1969;68:578-94.
- [1059] Feldman EL, Norris JL, Cleasby GW. Autosomal dominant exudative vitreoretinopathy. *Arch Ophthalmol* 1983;101:1532-5.
- [1060] Gitter KA, Rothschild H, Waltman DD, et al. Dominantly inherited peripheral retinal neovascularization. *Arch Ophthalmol* 1978;96:1601-5.
- [1061] Gow J, Oliver GL. Familial exudative vitreoretinopathy; an expanded view. *Arch Ophthalmol* 1971;86:150-5.
- [1062] Laqua H. Familial exudative vitreoretinopathy. *Albrecht von Graefes Arch Klin Exp Ophthalmol* 1980;213:121-33.
- [1063] Miyakubo H, Hashimoto K, Miyakubo S. Retinal vascular pattern in familial exudative vitreoretinopathy. *Ophthalmology* 1984;91:1524-30.
- [1064] Miyakubo H, Inohara N, Hashimoto K. Retinal involvement in familial exudative vitreoretinopathy. *Ophthalmologica* 1982;185:125-35.
- [1065] Slusher MM, Hutton WE. Familial exudative vitreoretinopathy. *Am J Ophthalmol* 1979;87:152-6.
- [1066] Tasman W, Augsburger JJ, Shields JA, et al. Familial exudative vitreoretinopathy. *Trans Am Ophthalmol Soc* 1981;79:211-26.
- [1067] van Nouhuys CE. Dominant exudative vitreoretinopathy and other vascular developmental disorders of the peripheral retina. *Doc Ophthalmol* 1982;54:1-415.
- [1068] van Nouhuys CE. Juvenile retinal detachment as a complication of familial exudative vitreoretinopathy. *Fortschr Ophthalmol* 1989;86:221-3.
- [1069] Swanson D, Rush P, Bird AC. Visual loss from retinal oedema in autosomal dominant exudative vitreoretinopathy. *Br J Ophthalmol* 1982;66:627-9.
- [1070] Nijhuis FA, Deutman AF, Aan de Kerk AL. Fluorescein angiography in mild stages of dominant exudative vitreoretinopathy. *Mod Probl Ophthalmol* 1979;20:107-14.
- [1071] Ober RR, Bird AC, Hamilton AM, et al. Autosomal dominant exudative vitreoretinopathy. *Br J Ophthalmol* 1980;64:112-20.
- [1072] Sternberg Jr P, Lopez PF, Lambert HM, et al. Controversies in the management of retinopathy of prematurity. *Am J Ophthalmol* 1992;113:198-202.
- [1073] Poulter JA, Ali M, Gilmour DF, Rice A, et al. Mutations in TSPAN12 cause autosomal-dominant familial exudative vitreoretinopathy. *Am J Hum Genet* 2010;86:248-53.
- [1074] Robitaille JM, Wallace K, Zheng B, et al. Phenotypic overlap of familial exudative vitreoretinopathy (FEVR) with persistent fetal vasculature (PFV) caused by FZD4 mutations in two distinct pedigrees. *Ophthalmic Genet* 2009;30:23-30.
- [1075] Xia CH, Liu H, Cheung D, et al. A model for familial exudative vitreoretinopathy caused by LPR5 mutations. *Hum Mol Genet* 2008;17:1605-12.
- [1076] Vieira V, de la Houssaye G, Dansault A, et al. Novel human pathological mutations. Gene symbol: FZD4. Disease: familial exudative vitreoretinopathy. *Hum Genet* 2007;121:650.
- [1077] Khwarg JW, Bourla D, Gonzales CA, et al. Familial exudative vitreoretinopathy and macular hole exhibited in same individual. *Semin Ophthalmol* 2007;22:85-6.
- [1078] Yoshida S, Arita R, Yoshida A, et al. Novel mutation in FZD4 gene in a Japanese pedigree with familial exudative vitreoretinopathy. *Am J Ophthalmol* 2004;138:670-1.
- [1079] Toomes C, Downey LM, Bottomley HM, et al. Identification of a fourth locus (EVR4) for familial exudative vitreoretinopathy (FEVR). *Mol Vis* 2004;10:37-42.

- [1080] Kondo H, Hayashi H, Oshima K, et al. Frizzled 4 gene (FZD4) mutations in patients with familial exudative vitreoretinopathy with variable expressivity. *Br J Ophthalmol* 2003;87:1291–5.
- [1081] Parsons MA, Curtis D, Blank CE, et al. The ocular pathology of Norrie disease in a fetus of 11 weeks' gestational age. *Graefes Arch Clin Exp Ophthalmol* 1992;230:248–51.
- [1082] Li Y, Fuhrmann C, Schwinger E, et al. The gene for autosomal dominant familial exudative vitreoretinopathy (Criswick-Schepens) on the long arm of chromosome 11. *Am J Ophthalmol* 1992;113:712–3.
- [1083] Li Y, Müller B, Fuhrmann C, et al. The autosomal dominant familial exudative vitreoretinopathy locus maps on 11q and is closely linked to D11S533. *Am J Hum Genet* 1992;51:749–54.
- [1084] Nicholson DH, Galvis V. Criswick–Schepens syndrome (familial exudative vitreoretinopathy); study of a Colombian kindred. *Arch Ophthalmol* 1984;102:1519–22.
- [1085] Friedrich CA, Francis KA, Kim HC. Familial exudative vitreoretinopathy (FEVR) and platelet dysfunction. *Br J Ophthalmol* 1989;73:477–8.
- [1086] van Nouhuys CE. Signs, complications, and platelet aggregation in familial exudative vitreoretinopathy. *Am J Ophthalmol* 1991;111:34–41.
- [1087] Sneed PJ, Augsburger JJ, Shields JA, et al. Bilateral retinal vascular hypoplasia associated with persistence of the primary vitreous: a new clinical entity? *J Pediatr Ophthalmol Strabismus* 1988;25:77–85.
- [1088] Best W, Rentsch F. Über das “Pseudogliom” bei der Incontinentia pigmenti. *Klin Monatsbl Augenheilkd* 1974;164:19–32.
- [1089] Bloch B. Eigentümliche, bisher nicht beschriebene Pigmentaffektion (Incontinentia pigmenti). *Schweiz Med Wochenschr* 1926;56:404–5.
- [1090] Brown CA. Incontinentia pigmenti: the development of pseudoglioma. *Br J Ophthalmol* 1988;72:452–5.
- [1091] Catalano RA. Incontinentia pigmenti. *Am J Ophthalmol* 1990;110:696–700.
- [1092] Fischbein FI, Schub M, Lesko WS. Incontinentia pigmenti, pheochromocytoma, and ocular abnormalities. *Am J Ophthalmol* 1972;73:961–4.
- [1093] Fowell SM, Greenwald MJ, Prendiville JS, et al. Ocular findings of incontinentia pigmenti in a male infant with Klinefelter syndrome. *J Pediatr Ophthalmol Strabismus* 1992;29:180–4.
- [1094] Franceschetti A, Jadassohn WA. A propos de l' “incontinentia pigmenti”, délimitation de deux syndromes différents figurant sous le meme terme. *Dermatologica* 1954;108:1–28.
- [1095] Goldberg MF, Custis PH. Retinal and other manifestations of incontinentia pigmenti (Bloch-Sulzberger syndrome). *Ophthalmology* 1993;100:1645–54.
- [1096] Heathcote JG, Schoales BA, Willis NR. Incontinentia pigmenti: a case report and review of the ocular pathological features. *Can J Ophthalmol* 1991;26:229–37.
- [1097] Jain RB, Willetts GS. Fundus changes in incontinentia pigmenti (Bloch-Sulzberger syndrome): a case report. *Br J Ophthalmol* 1978;62:622–6.
- [1098] Krey H, Laux U. Netzhautgefäßveränderungen bei Incontinentia pigmenti (Bloch-Sulzberger-Syndrom). *Klin Monatsbl Augenheilkd* 1974;164:138–42.
- [1099] Lieb WA, Guerry III D. Fundus changes in incontinentia pigmenti (Bloch-Sulzberger syndrome). *Am J Ophthalmol* 1958;45:265–71.
- [1100] McCrary III JA, Smith JL. Conjunctival and retinal incontinentia pigmenti. *Arch Ophthalmol* 1968;79:417–22.
- [1101] Mensheha-Manhart O, Rodrigues MM, Shields JA, et al. Retinal pigment epithelium in incontinentia pigmenti. *Am J Ophthalmol* 1975;79:571–7.
- [1102] Nishimura M, Oka Y, Takagi I, et al. The clinical features and treatment of the retinopathy of Bloch-Sulzberger syndrome (incontinentia pigmenti). *Jpn J Ophthalmol* 1980;24:310–9.
- [1103] Nix RR, Apple DJ. Proliferative retinopathy associated with incontinentia pigmenti. *Retina* 1981;1:156–61.
- [1104] Rabb EL. Ocular lesions in incontinentia pigmenti. *J Pediatr Ophthalmol Strabismus* 1983;20:42–8.
- [1105] Rosenfeld SI, Smith ME. Ocular findings in incontinentia pigmenti. *Ophthalmology* 1985;92:543–6.
- [1106] Scott JG, Friedmann AI, Chitters M, et al. Ocular changes in the Bloch-Sulzberger syndrome (incontinentia pigmenti). *Br J Ophthalmol* 1955;39:276–82.
- [1107] Spallone A. Incontinentia pigmenti (Bloch-Sulzberger syndrome): seven case reports from one family. *Br J Ophthalmol* 1987;71:629–34.
- [1108] Sulzberger MB. Incontinentia pigmenti (Bloch-Sulzberger); report of an additional case, with comment on possible relation to a new syndrome of familial and congenital anomalies. *Arch Dermatol Syph* 1938;38:57–69.
- [1109] Watzke RC, Stevens TS, Carney Jr RG. Retinal vascular changes of incontinentia pigmenti. *Arch Ophthalmol* 1976;94:743–6.
- [1110] Zweifach PH. Incontinentia pigmenti: its association with retinal dysplasia. *Am J Ophthalmol* 1966;62:716–22.
- [1111] Kenwick S, Woffendin H, Jakins T, et al. Survival of male patients with incontinentia pigmenti carrying a lethal mutation can be explained by somatic mosaicism or Klinefelter syndrome. *Am J Hum Genet* 2001;69:1210–7.
- [1112] Fekrat S, Humayun MS, Goldberg MF. Spontaneous retinal reattachment in incontinentia pigmenti. *Retina* 1998;18:75–7.
- [1113] Shields CL, Eagle Jr RC, Shah RM, et al. Multifocal hypopigmented retinal pigment epithelial lesions in incontinentia pigmenti. *Retina* 2006;26:328–33.
- [1114] Staurenghi G, Lonati C, Aschero M, et al. Arteriovenous crossing as a risk factor in branch retinal vein occlusion. *Am J Ophthalmol* 1994;117:211–3.
- [1115] Berinstein DM, Trese MT. Anomalous foveal vascular pattern in a case of incontinentia pigmenti. *Retina* 1999;19:564–6.
- [1116] Goldberg MF. Macular vasculopathy and its evolution in incontinentia pigmenti. *Ophthalmic Genet* 1998;19:141–8.
- [1117] Meallet MA, Song J, Stout JT. An extreme case of retinal avascularity in a female neonate with incontinentia pigmenti. *Retina* 2004;24:613–5.
- [1118] Chao AN, Lai CC, Kao LY, et al. Incontinentia pigmenti: a florid case with a fluminant clinical course in a newborn. *Retina* 2000;20:558–60.
- [1119] Rahi J, Hungerford J. Early diagnosis of the retinopathy of incontinentia pigmenti: successful treatment by cryotherapy. *Br J Ophthalmol* 1990;74:377–9.
- [1120] Catalano RA, Lopatynsky M, Tasman WS. Treatment of proliferative retinopathy associated with incontinentia pigmenti. *Am J Ophthalmol* 1990;110:701–2.
- [1121] Smahi A, Courtois G, Vabres P, et al. Genomic rearrangement in NEMO impairs NF-kappaB activation and is a cause of incontinentia pigmenti. The International Incontinentia Pigmenti (IP) Consortium. *Nature* 2000;405:466–72.
- [1122] Martin PT. The dystroglycanopathies: the new disorders of O-linked glycosylation. *Semin Pediatr Neurol* 2005;12:152–8.
- [1123] Diesen C, Saarinen A, Pihko H, et al. POMGnT1 mutation and phenotypic spectrum in muscle-eye-brain disease. *J Med Genet* 2004;41:e115.
- [1124] Beltran-Valero de Bernabe D, Voit T, Longman C, et al. Mutations in the FKRP gene can cause muscle-eye-brain disease and Walker-Warburg syndrome. *J Med Genet* 2004;41:e61.

- [1125] Shenoy AM, Markowitz JA, Bonnemann CG, et al. Muscle–Eye–Brain disease. *J Clin Neuromuscul Dis* 2010;11:124–6.
- [1126] Demir E, Gucuyener K, Akturk A, et al. An unusual presentation of muscle–eye–brain disease: severe eye abnormalities with mild muscle and brain involvement. *Neuromuscul Disord* 2009;19:692–5.
- [1127] Grewal PK, McLaughlan JM, Moore CJ, et al. Characterization of the LARGE family of putative glycosyltransferases associated with dystroglycanopathies. *Glycobiology* 2005;15:912–23.
- [1128] Haliloglu G, Gross C, Senbil N, et al. Clinical spectrum of muscle–eye–brain disease: from the typical presentation to severe autistic features. *Acta Myol* 2004;23:137–9.
- [1129] Santavuori P, Pihko H, Sainio K, et al. Muscle-eye-brain disease and Walker-Warburg syndrome. *Am J Med Genet* 1990;36:371–4.
- [1130] Merton WL, Boyd SG. Muscle–eye–brain disease (MEB). *Brain Dev* 1990;12:274.
- [1131] Santavuori P, Somer H, Sainio K, et al. Muscle-eye-brain disease (MEB). *Brain Dev* 1989;11:147–53.
- [1132] Raitta C, Lamminen M, Santavuori P, et al. Ophthalmological findings in a new syndrome with muscle, eye and brain involvement. *Acta Ophthalmol (Copenh)* 1978;56:465–72.
- [1133] Knight SW, Heiss NS, Vulliamy TJ, et al. X-linked dyskeratosis congenita is predominantly caused by missense mutations in the DKC1 gene. *Am J Hum Genet* 1999;65:50–8.
- [1134] Vulliamy T, Marrone A, Goldman F, et al. The RNA component of telomerase is mutated in autosomal dominant dyskeratosis congenita. *Nature* 2001;413:432–5.
- [1135] Chambers JK, Salinas CF. Ocular findings in dyskeratosis congenita. *Birth Defects Orig Artic Ser* 1982;18:167–74.
- [1136] Teixeira LF, Shields CL, Marr B, et al. Bilateral retinal vasculopathy in a patient with dyskeratosis congenita. *Arch Ophthalmol* 2008;126:134–5.
- [1137] Johnson CA, Hatfield M, Pulido JS. Retinal vasculopathy in a family with autosomal dominant dyskeratosis congenita. *Ophthalmic Genet* 2009;30:181–4.
- [1138] Bessler M, Wilson DB, Mason PJ. Dyskeratosis congenita. *FEBS Lett* 2010 Sep 10;584:3831–8.
- [1139] Mason PJ, Wilson DB, Bessler M. Dyskeratosis congenita – a disease of dysfunctional telomere maintenance. *Curr Mol Med* 2005;5:159–70.
- [1140] Blinder KJ, Khan JA, Giangiacomo J, et al. Optociliary veins and visual prognosis after central retinal vein occlusion. *Ann Ophthalmol* 1989;21:192–7.
- [1141] Fujino T, Curtin VT, Norton EWD. Experimental central retinal vein occlusion; a comparison of intraocular and extraocular occlusion. *Arch Ophthalmol* 1969;81:395–406.
- [1142] Hamilton AM, Kohner EM, Rosen D, et al. Experimental venous occlusion. *Proc R Soc Med* 1974;67:1045–8.
- [1143] Hamilton AM, Kohner EM, Rosen D, et al. Experimental retinal branch vein occlusion in rhesus monkeys. I. Clinical appearances. *Br J Ophthalmol* 1979;63:377–87.
- [1144] Hayreh SS. Discussion: an experimental study of the central retinal vein occlusion. *Trans Ophthalmol Soc UK* 1964;84:586–93.
- [1145] Hayreh SS, van Heuven WAJ, Hayreh MS. Experimental retinal vascular occlusion. I. Pathogenesis of central retinal vein occlusion. *Arch Ophthalmol* 1978;96:311–23.
- [1146] Hockley DJ, Tripathi RC, Ashton N. Experimental retinal branch vein occlusion in the monkey; histopathological and ultrastructural studies. *Trans Ophthalmol Soc UK* 1976;96:202–9.
- [1147] Hockley DJ, Tripathi RC, Ashton N. Experimental retinal branch vein occlusion in rhesus monkeys. III. Histopathological and electron microscopical studies. *Br J Ophthalmol* 1979;63:393–411.
- [1148] Kohner EM, Dollery CT, Shakib M, et al. Experimental retinal branch vein occlusion. *Am J Ophthalmol* 1970;69:778–825.
- [1149] Rubinstein K. Arterial insufficiency in retinal venous occlusion (a short symposium). *Trans Ophthalmol Soc UK* 1964;84:564–81.
- [1150] Keyser BJ, Flaharty PM, Sergott RC, et al. Color Doppler imaging of arterial blood flow in central retinal vein occlusion. *Ophthalmology* 1994;101:1357–61.
- [1151] Williamson TH, Baxter GM. Central retinal vein occlusion, an investigation by color Doppler imaging; blood velocity characteristics and prediction of iris neovascularization. *Ophthalmology* 1994;101:1362–72.
- [1152] Gass JDM. A fluorescein angiographic study of macular dysfunction secondary to retinal vascular disease. II. Retinal vein obstruction. *Arch Ophthalmol* 1968;80:550–68.
- [1153] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 282.
- [1154] Gutman FA. Evaluation of a patient with central retinal vein occlusion. *Ophthalmology* 1983;90:481–3.
- [1155] Hayreh SS. So-called “central retinal vein occlusion.” I. Pathogenesis, terminology, clinical features. *Ophthalmologica* 1976;172:1–13.
- [1156] Hayreh SS. Classification of central retinal vein occlusion. *Ophthalmology* 1983;90:458–74.
- [1157] Hayreh SS, Zimmerman MB, Podhajsky P. Incidence of various types of retinal vein occlusion and their recurrence and demographic characteristics. *Am J Ophthalmol* 1994;117:429–41.
- [1158] Hill DW, Griffiths JD. The prognosis in retinal vein thrombosis. *Trans Ophthalmol Soc UK* 1970;90:309–22.
- [1159] Joffe L, Goldberg RE, Magargal LE, et al. Macular branch vein occlusion. *Ophthalmology* 1980;87:91–8.
- [1160] Kohner EM, Laatikainen L, Oughton J. The management of central retinal vein occlusion. *Ophthalmology* 1983;90:484–7.
- [1161] Laatikainen L, Kohner EM. Fluorescein angiography and its prognostic significance in central retinal vein occlusion. *Br J Ophthalmol* 1976;60:411–8.
- [1162] McAllister IL, Constable IJ. Laser-induced chorioretinal venous anastomosis for treatment of nonischemic central retinal vein occlusion. *Arch Ophthalmol* 1995;113:456–62.
- [1163] McLeod D, Kohner EM. Hemorrhages after central retinal vein occlusion. *Arch Ophthalmol* 1978;96:1921.
- [1164] Priluck IA, Robertson DM, Hollenhorst RW. Long-term follow-up of occlusion of the central retinal vein in young adults. *Am J Ophthalmol* 1980;90:190–202.
- [1165] Smith VH. Arterial insufficiency in retinal venous occlusion (a short symposium). *Trans Ophthalmol Soc UK* 1964;84:581–6.
- [1166] Zegarra H, Gutman FA, Zakov N, et al. Partial occlusion of the central retinal vein. *Am J Ophthalmol* 1983;96:330–7.
- [1167] Kearns TP. Differential diagnosis of central retinal vein obstruction. *Ophthalmology* 1983;90:475–80.
- [1168] Reyes ME, Barr CC, Gamel JW. Blood levels in macular cystoid spaces and their relationship to retinal vein obstruction. *Retina* 1994;14:14–18.
- [1169] Foss AJE, Headon MP, Hamilton AM, et al. Transient vessel wall sheathing in acute retinal vein occlusions. *Eye* 1992;6:313–6.
- [1170] Hayreh SS, March W, Phelps CD. Ocular hypotony following retinal vein occlusion. *Arch Ophthalmol* 1978;96:827–33.
- [1171] Sabates R, Hirose T, McMeel JW. Electroretinography in the prognosis and classification of central retinal vein occlusion. *Arch Ophthalmol* 1983;101:232–5.

- [1172] Minturn J, Brown GC. Progression of nonischemic central retinal vein obstruction to the ischemic variant. *Ophthalmology* 1986;93:1158–62.
- [1173] Welch JC, Augsburger JJ. Assessment of angiographic retinal capillary nonperfusion in central retinal vein occlusion. *Am J Ophthalmol* 1987;103:761–6.
- [1174] Hayreh SS, Klugman MR, Beri M, et al. Differentiation of ischemic from non-ischemic central retinal vein occlusion during the early acute phase. *Graefes Arch Clin Exp Ophthalmol* 1990;228:201–17.
- [1175] Servais GE, Thompson HS, Hayreh SS. Relative afferent pupillary defect in central retinal vein occlusion. *Ophthalmology* 1986;93:301–3.
- [1176] Grey RHB, Bloom PA. Retinal ischaemia and relative afferent pupil defects in central retinal vein occlusion. *Eur J Ophthalmol* 1991;1:85–8.
- [1177] Hayreh SS, Klugman MR, Podhajsky P, et al. Electroretinography in central retinal vein occlusion; correlation of electroretinographic changes with pupillary abnormalities. *Graefes Arch Clin Exp Ophthalmol* 1989;227:549–61.
- [1178] Johnson MA, McPhee TJ. Electroretinographic findings in iris neovascularization due to acute central retinal vein occlusion. *Arch Ophthalmol* 1993;111:806–14.
- [1179] Grant WM. Shallowing of the anterior chamber following occlusion of the central retinal vein. *Am J Ophthalmol* 1973;75:384–9.
- [1180] Hyams SW, Neumann E. Transient angle-closure glaucoma after retinal vein occlusion. *Br J Ophthalmol* 1972;56:353–5.
- [1181] Weber PA, Cohen JS, Baker ND. Central retinal vein occlusion and malignant glaucoma. *Arch Ophthalmol* 1987;105:635–6.
- [1182] Ravalico G, Parodi MB. Exudative retinal detachment subsequent to retinal vein occlusion. *Ophthalmologica* 1992;205:77–82.
- [1183] Weinberg D, Jampol LM, Schatz H, et al. Exudative retinal detachment following central and hemicentral retinal vein occlusions. *Arch Ophthalmol* 1990;108:271–5.
- [1184] Quinlan PM, Elman MJ, Bhatt AK, et al. The natural course of central retinal vein occlusion. *Am J Ophthalmol* 1990;110:118–23.
- [1185] Walters RF, Spalton DJ. Central retinal vein occlusion in people aged 40 years or less: a review of 17 patients. *Br J Ophthalmol* 1990;74:30–5.
- [1186] Zegarra H, Gutman FA, Conforto J. The natural course of central retinal vein occlusion. *Ophthalmology* 1979;86:1931–9.
- [1187] Chan C-C, Little HL. Infrequency of retinal neovascularization following central retinal vein occlusion. *Ophthalmology* 1979;86:256–62.
- [1188] Hayreh SS, Rojas P, Podhajsky P, et al. Ocular neovascularization with retinal vascular occlusion. III. Incidence of ocular neovascularization with retinal vein occlusion. *Ophthalmology* 1983;90:488–506.
- [1189] Magargal LE, Brown GC, Augsburger JJ, et al. Neovascular glaucoma following central retinal vein obstruction. *Ophthalmology* 1981;88:1095–101.
- [1190] Sinclair SH, Gragoudas ES. Prognosis for rubeosis iridis following central retinal vein occlusion. *Br J Ophthalmol* 1979;63:735–43.
- [1191] Akiba J, Kado M, Kakehashi A, et al. Role of the vitreous in posterior segment neovascularization in central retinal vein occlusion. *Ophthalmic Surg* 1991;22:498–502.
- [1192] Pollack A, Dottan S, Oliver M. The fellow eye in retinal vein occlusive disease. *Ophthalmology* 1989;96:842–5.
- [1193] D'Amato RJ, Miller NR, Fine SL, et al. The effect of age and initial visual acuity on the systemic and visual prognosis of central retinal vein occlusion. *Aust NZ J Ophthalmol* 1991;19:119–22.
- [1194] Rubinstein K, Jones EB. Retinal vein occlusion: long-term prospects; ten years' follow-up of 143 patients. *Br J Ophthalmol* 1976;60:148–50.
- [1195] Humayun M, Kattah J, Cupps TR, et al. Papillophlebitis and arteriolar occlusion in a pregnant woman. *J Clin Neuro-Ophthalmol* 1992;12:226–9.
- [1196] Lyle TK, Wybar K. Retinal vasculitis. *Br J Ophthalmol* 1961;45:778–88.
- [1197] Winterkorn JMS, Odel JG, Behrens MM, et al. Large optic nerve with central retinal artery and vein occlusions from optic neuritis/perineuritis rather than tumor. *J Clin Neuro-Ophthalmol* 1994;14:157–9.
- [1198] Duker JS, Sergott RC, Savino PJ, et al. Optic neuritis with secondary retinal venous stasis. *Ophthalmology* 1989;96:475–80.
- [1199] Keyser BJ, Hass AN. Retinal vascular disease in ulcerative colitis. *Am J Ophthalmol* 1994;118:395–6.
- [1200] Fong ACO, Schatz H, McDonald HR, et al. Central retinal vein occlusion in young adults (papillophlebitis). *Retina* 1991;11:3–11.
- [1201] Green WR, Chan CC, Hutchins GM, et al. Central retinal vein occlusion: a prospective histopathologic study of 29 eyes in 28 cases. *Retina* 1981;1:27–55.
- [1202] Appiah AP, Greenidge KC. Factors associated with retinal-vein occlusion in Hispanics. *Ann Ophthalmol* 1987;19:307–12.
- [1203] Appiah AP, Trempe CL. Risk factors associated with branch vs. central retinal vein occlusion. *Ann Ophthalmol* 1989;21:153–7.
- [1204] Brunette I, Boghen D. Central retinal vein occlusion complicating spontaneous carotid-cavernous fistula. *Arch Ophthalmol* 1987;105:464–5.
- [1205] Elman MJ, Bhatt AK, Quinlan PM, et al. The risk for systemic vascular diseases and mortality in patients with central retinal vein occlusion. *Ophthalmology* 1990;97:1543–8.
- [1206] Gilmer G, Swartz M, Teske M, et al. Over-the-counter phenylpropanolamine: a possible cause of central retinal vein occlusion. *Arch Ophthalmol* 1986;104:642.
- [1207] Glacet-Bernard A, Chabanel A, Coscas G, et al. Élévation de l'agrégation érythrocytaire au cours des occlusions veineuses rétinienne. *J Fr Ophtalmol* 1990;13:500–5.
- [1208] Hitchings RA, Spaeth GL. Chronic retinal vein occlusion in glaucoma. *Br J Ophthalmol* 1976;60:694–9.
- [1209] Jørgensen JS, Guthoff R. Ophthalmoscopic findings in spontaneous carotid cavernous fistula: an analysis of 20 patients. *Graefes Arch Clin Exp Ophthalmol* 1988;226:34–6.
- [1210] Kohner EM, Cappin JM. Do medical conditions have an influence on central retinal vein occlusion? *Proc R Soc Med* 1974;67:1052–4.
- [1211] Krüger K, Anger V, Haas D. Der Thrombin-Anti-thrombin-III-Komplex; Ursache bei venösen Gefäßverschlüssen der Netzhaut. *Ophthalmologie* 1992;89:67–70.
- [1212] Mansour AM, Walsh JB, Goldberger S, et al. Role of diabetes mellitus on the natural history of central retinal vein occlusion. *Ophthalmologica* 1992;204:57–62.
- [1213] McGrath MA, Wechsler F, Hunyor ABL, et al. Systemic factors contributory to retinal vein occlusion. *Arch Intern Med* 1978;138:216–20.
- [1214] Rath EZ, Frank RN, Shin DH, et al. Risk factors for retinal vein occlusions; a case-control study. *Ophthalmology* 1992;99:509–14.
- [1215] Ross Russell RW, Ikeda H. Clinical and electrophysiological observations in patients with low pressure retinopathy. *Br J Ophthalmol* 1986;70:651–6.



- [1216] Schmidt D, Schumacher M. Zentralvenenverschluss als Folge von spontanen arteriovenösen Fisteln der Arteria carotis zum Sinus cavernosus. *Fortsch Ophthalmol* 1991;88:683–6.
- [1217] Slamovits TL, Klingele TG, Burde RM, et al. Moyamoya disease with central retinal vein occlusion; case report. *J Clin Neuro-Ophthalmol* 1981;1:123–7.
- [1218] Smith P, Green WR, Miller NR, et al. Central retinal vein occlusion in Reye's syndrome. *Arch Ophthalmol* 1980;98:1256–60.
- [1219] Snir M, Axer-Siegel R, Buckman G, et al. Central venous stasis retinopathy following the use of tranexamic acid. *Retina* 1990;10:181–4.
- [1220] Stowe III GC, Zakov ZN, Albert DM. Central retinal vascular occlusion associated with oral contraceptives. *Am J Ophthalmol* 1978;86:798–801.
- [1221] Mansour AM, Walsh JB, Henkind P. Mortality and morbidity in patients with central retinal vein occlusion. *Ophthalmologica* 1992;204:199–203.
- [1222] Chern S, Magargal LE, Annesley WH. Central retinal vein occlusion associated with drusen of the optic disc. *Ann Ophthalmol* 1991;23:66–9.
- [1223] Chern S, Magargal LE, Brav SS. Bilateral central retinal vein occlusion as an initial manifestation of pseudotumor cerebri. *Ann Ophthalmol* 1991;23:54–7.
- [1224] Kline LB, Kirkham TH, Belanger G, et al. Traumatic central retinal vein occlusion. *Ann Ophthalmol* 1978;10:587–91.
- [1225] Noble MJ, Alvarez EV. Combined occlusion of the central retinal artery and central retinal vein following blunt ocular trauma: a case report. *Br J Ophthalmol* 1987;71:834–6.
- [1226] Ring CP, Pearson TC, Sanders MD, et al. Viscosity and retinal vein thrombosis. *Br J Ophthalmol* 1976;60:397–410.
- [1227] Trope GE, Lowe GDO, McArdle BM, et al. Abnormal blood viscosity and haemostasis in long-standing retinal vein occlusion. *Br J Ophthalmol* 1983;67:137–42.
- [1228] Wolf S, Arend O, Bertram B, et al. Hemodilution therapy in central retinal vein occlusion; one-year results of a prospective randomized study. *Graefes Arch Clin Exp Ophthalmol* 1994;32:33–9.
- [1229] Glacet-Bernard A, Chabanel A, Lelong F, et al. Elevated erythrocyte aggregation in patients with central retinal vein occlusion and without conventional risk factors. *Ophthalmology* 1994;101:1483–7.
- [1230] Brown GC. Central retinal vein obstruction with lipid exudate. *Arch Ophthalmol* 1989;107:1001–5.
- [1231] Dodson PM, Galton DJ, Hamilton AM, et al. Retinal vein occlusion and the prevalence of lipoprotein abnormalities. *Br J Ophthalmol* 1982;66:161–4.
- [1232] Dodson PM, Westwick J, Marks G, et al.  $\beta$ -Thromboglobulin and platelet factor 4 levels in retinal vein occlusion. *Br J Ophthalmol* 1983;67:143–6.
- [1233] Cole MD, Dodson PM, Hendeles S. Medical conditions underlying retinal vein occlusion in patients with glaucoma or ocular hypertension. *Br J Ophthalmol* 1989;73:693–8.
- [1234] Gusek GC, Jonas JB, Naumann GO. Retinale Gefäßverschlüsse sind unabhängig von der Papillengröße; Eine morphometrische Untersuchung von 140 Patienten. *Klin Monatsbl Augenheilkd* 1990;197:14–17.
- [1235] Mansour AM, Walsh JB, Henkind P. Optic disc size in central retinal vein occlusion. *Ophthalmology* 1990;97:165–6.
- [1236] Strahlman ER, Quinlan PM, Enger C, et al. The cup-to-disc ratio and central retinal vein occlusion. *Arch Ophthalmol* 1989;107:524–5.
- [1237] Giuffrè G. Tilted discs and central retinal vein occlusion. *Graefes Arch Clin Exp Ophthalmol* 1993;31:41–2.
- [1238] Hayreh SS, Zimmerman MB, Podhajsky P. Seasonal variations in the onset of retinal vein occlusion. *Br J Ophthalmol* 1992;76:706–10.
- [1239] Lavin MJ, Dhillon BJ. Cyclic variation in onset of central retinal vein occlusion. *Br J Ophthalmol* 1987;71:18–20.
- [1240] Glacet-Bernard A, Coscos G, Chabanel A, et al. A randomized, double-masked study on the treatment of retinal vein occlusion with troxerutin. *Am J Ophthalmol* 1994;118:421–9.
- [1241] Hansen LL, Wiek J, Wiederhold MA. Randomised prospective study of treatment of non-ischaemic central retinal vein occlusion by isovolaemic haemodilution. *Br J Ophthalmol* 1989;73:895–9.
- [1242] Kohner EM, Pettit JE, Hamilton AM, et al. Streptokinase in central retinal vein occlusion: a controlled clinical trial. *Br Med J* 1976;1:550–3.
- [1243] Central Vein Occlusion Study Group. A randomized clinical trial of early panretinal photocoagulation for ischemic central vein occlusion. The Central Vein Occlusion Study Group N Report. *Ophthalmology* 1995;102:1434–44.
- [1244] Central Vein Occlusion Study Group. Baseline and early natural history report. The Central Vein Occlusion Study. *Arch Ophthalmol* 1993;111:1087–95.
- [1245] Central Vein Occlusion Study Group. Evaluation of grid pattern photocoagulation for macular edema in central vein occlusion. The Central Vein Occlusion Study Group M Report. *Ophthalmology* 1995;102:1425–33.
- [1246] Clarkson JG. Photocoagulation for ischemic central retinal vein occlusion; Central Vein Occlusion Study. *Arch Ophthalmol* 1991;109:1218–9.
- [1247] Klein ML, Finkelstein D. Macular grid photocoagulation for macular edema in central retinal vein occlusion. *Arch Ophthalmol* 1989;107:1297–302.
- [1248] Ip MS, Scott IU, VanVeldhuisen PC, et al. A randomized trial comparing the efficacy and safety of intravitreal triamcinolone with observation to treat vision loss associated with macular edema secondary to central retinal vein occlusion: the Standard Care vs Corticosteroid for Retinal Vein Occlusion (SCORE) study report 5. *Arch Ophthalmol* 2009;127:1101–14.
- [1249] Wolf-Schnurrbusch UE, Ghanem R, Rothenbuehler SP, et al. Predictors for short term visual outcome after anti-VEGF therapy of macular edema due to central retinal vein occlusion. *Invest Ophthalmol Vis Sci* 2010 Nov;18.
- [1250] Kinge B, Stordahl PB, Forsaa V, et al. Efficacy of ranibizumab in patients with macular edema secondary to central retinal vein occlusion: results from the sham-controlled ROCC study. *Am J Ophthalmol* 2010;150:310–4.
- [1251] Cinal A, Ziemssen F, Bartz-Schmidt KU, et al. Intravitreal bevacizumab for treatment of serous macular detachment in central retinal vein occlusion. *Graefes Arch Clin Exp Ophthalmol* 2010 Nov;4.
- [1252] Vasco-Posada J. Modification of the circulation in the posterior pole of the eye. *Ann Ophthalmol* 1972;4:48–59.
- [1253] McAllister IL, Yu D-Y, Vijayasekaran S, et al. Induced chorioretinal venous anastomosis in experimental retinal branch vein occlusion. *Br J Ophthalmol* 1992;76:615–20.
- [1254] McAllister IL, Gillies ME, Smithies LA, et al. The Central Retinal Vein Bypass Study: a trial of laser-induced chorioretinal venous anastomosis for central retinal vein occlusion. *Ophthalmology* 2010;117:954–65.
- [1255] Branch Vein Occlusion Study Group. Argon laser photocoagulation for macular edema in branch vein occlusion. *Am J Ophthalmol* 1984;98:271–82.
- [1256] Branch Vein Occlusion Study Group. Argon laser scatter photocoagulation for prevention of neovascularization and

- vitreous hemorrhage in branch vein occlusion; a randomized clinical trial. *Arch Ophthalmol* 1986;104:34–41.
- [1257] Archer DB. Natural course of branch retinal vein obstruction. *Trans Ophthalmol Soc UK* 1974;94:623–35.
- [1258] Archer DB, Ernest JT, Newell FW. Classification of branch retinal vein obstruction. *Trans Am Acad Ophthalmol Otolaryngol* 1974;78:OP148–OP165.
- [1259] Birchall CH, Harris GS, Drance SM, et al. Visual field changes in branch retinal ‘vein’ occlusion. *Arch Ophthalmol* 1976;94:747–54.
- [1260] Blankenship GW, Okun E. Retinal tributary vein occlusion; history and management by photocoagulation. *Arch Ophthalmol* 1973;89:363–8.
- [1261] Clemett RS. Retinal branch vein occlusion; changes at the site of obstruction. *Br J Ophthalmol* 1974;58:548–54.
- [1262] Clemett RS, Kohner EM, Hamilton AM. The visual prognosis in retinal branch vein occlusion. *Trans Ophthalmol Soc UK* 1973;93:523–35.
- [1263] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 3rd ed. St. Louis: CV Mosby; 1987. p. 428–34.
- [1264] Gutman FA. Macular edema in branch retinal vein occlusion: prognosis and management. *Trans Am Acad Ophthalmol Otolaryngol* 1977;83:OP488–OP493.
- [1265] Gutman FA, Zegarra H. The natural course of temporal retinal branch vein occlusion. *Trans Am Acad Ophthalmol Otolaryngol* 1974;78:OP178–OP192.
- [1266] Henkind P, Wise GN. Retinal neovascularization, collaterals, and vascular shunts. *Br J Ophthalmol* 1974;58:413–22.
- [1267] Joondeph HC, Goldberg MF. Rhegmatogenous retinal detachment after tributary retinal vein occlusion. *Am J Ophthalmol* 1975;80:253–7.
- [1268] Lang GE, Freissler K. Klinische und fluoreszenzangiographische Befunde bei Patienten mit retinalen Venenastverschlüssen; Eine unizentrische Studie über 211 Patienten. *Klin Monatsbl Augenheilkd* 1992;201:234–9.
- [1269] Rosen J, Tanenbaum HL. Venous shunting and macular edema. *Can J Ophthalmol* 1973;8:349–52.
- [1270] Shilling JS, Kohner EM. New vessel formation in retinal branch vein occlusion. *Br J Ophthalmol* 1976;60:810–5.
- [1271] Takeda M, Tanabe H, Kimura S, et al. Fluorescein angiographic analysis of late changes after retinal branch vein occlusion. *Jpn J Clin Ophthalmol* 1980;34:309–20.
- [1272] Frangieh GT, Green WR, Barraquer-Somers E, et al. Histopathologic study of nine branch retinal vein occlusions. *Arch Ophthalmol* 1982;100:1132–40.
- [1273] Duker JS, Brown GC. Anterior location of the crossing artery in branch retinal vein obstruction. *Arch Ophthalmol* 1989;107:998–1000.
- [1274] Feist RM, Ticho BH, Shapiro MJ, et al. Branch retinal vein occlusion and quadratic variation in arteriovenous crossings. *Am J Ophthalmol* 1992;113:664–8.
- [1275] Michels RG, Gass JDM. The natural course of retinal branch vein obstruction. *Trans Am Acad Ophthalmol Otolaryngol* 1974;78:OP166–OP177.
- [1276] Sekimoto M, Hayasaka S, Setogawa T. Type of arteriovenous crossing at site of branch retinal vein occlusion. *Jpn J Ophthalmol* 1992;36:192–6.
- [1277] Weinberg D, Dodwell DG, Fern SA. Anatomy of arteriovenous crossings in branch retinal vein occlusion. *Am J Ophthalmol* 1990;109:298–302.
- [1278] Weinberg DV, Egan KM, Seddon JM. Asymmetric distribution of arteriovenous crossings in the normal retina. *Ophthalmology* 1993;100:31–6.
- [1279] Zhao J, Sastry SM, Sperduto RD, et al. Arteriovenous crossing patterns in branch retinal vein occlusion. *Ophthalmology* 1993;100:423–8.
- [1280] Gutman FA, Zegarra H. Retinal detachment secondary to retinal branch vein occlusions. *Trans Am Acad Ophthalmol Otolaryngol* 1976;81:OP491–OP496.
- [1281] Serop S, De Laey JJ. Décollement séreux de la rétine, secondaire à l’occlusion veineuse rétinienne. *Bull Soc Belge Ophthalmol* 1991;241:113–9.
- [1282] Schatz H, Yannuzzi L, Stransky TJ. Retinal detachment secondary to branch vein occlusion: parts I and II. *Ann Ophthalmol* 1976;8:1437–52. 61–71
- [1283] Cousins SW, Flynn Jr HW, Clarkson JG. Macroaneurysms associated with retinal branch vein occlusion. *Am J Ophthalmol* 1990;109:567–70.
- [1284] Magargal LE, Augsburger JJ, Hyman D, et al. Venous macroaneurysm following branch retinal vein obstruction. *Ann Ophthalmol* 1980;12:685–8.
- [1285] Sanborn GE, Magargal LE. Venous macroaneurysm associated with branch retinal vein obstruction. *Ann Ophthalmol* 1984;16:464–8.
- [1286] Schulman J, Jampol LM, Goldberg MF. Large capillary aneurysms secondary to retinal venous obstruction. *Br J Ophthalmol* 1981;65:36–41.
- [1287] Takeda M, Kimura S. Large capillary aneurysms secondary to retinal branch vein occlusion. *Jpn J Clin Ophthalmol* 1982;36:315–22.
- [1288] Finkelstein D. Ischemic macular edema; recognition and favorable natural history in branch vein occlusion. *Arch Ophthalmol* 1992;110:1427–34.
- [1289] Finkelstein D, Clarkson J, Diddie K, et al. Branch vein occlusion; retinal neovascularization outside the involved segment. *Ophthalmology* 1982;89:1357–61.
- [1290] Pournaras CJ, Tsacopoulos M, Strommer K, et al. Scatter photocoagulation restores tissue hypoxia in experimental vasoproliferative microangiopathy in miniature pigs. *Ophthalmology* 1990;97:1329–33.
- [1291] Kado M, Hirokawa H, Yoshida A. Role of the vitreous in retinal neovascularization evaluated by a comparison of central retinal vein occlusion and branch retinal vein occlusion. *Acta Soc Ophthalmol Jpn* 1989;93:812–6.
- [1292] Kado M, Trempe CL. Role of the vitreous in branch retinal vein occlusion. *Am J Ophthalmol* 1988;105:20–4.
- [1293] Trempe CL, Takahashi M, Topilow HW. Vitreous changes in retinal branch vein occlusion. *Ophthalmology* 1981;88:681–7.
- [1294] Joondeph HC, Joondeph BC. Posterior tractional retinal breaks complicating branch retinal vein occlusion. *Retina* 1988;8:136–40.
- [1295] Murakami K, Ho PC, Trempe CL, et al. Tractional detachment of the macula following branch retinal vein occlusion. *Ann Ophthalmol* 1983;15:760–5.
- [1296] Regenbogen L, Godel V, Feiler-Ofry V, et al. Retinal breaks secondary to vascular accidents. *Am J Ophthalmol* 1977;84:187–96.
- [1297] Ernest JT, Stern WH. Internal limiting membrane detachment in branch retinal vein obstruction. *Am J Ophthalmol* 1974;78:324–6.
- [1298] Cohen G. Rhegmatogenous retinal detachment secondary to branch retinal vein occlusion; a case report. *Retina* 1981;1:186–9.
- [1299] Richmond PP, Orth DH. Branch retinal vein occlusion associated with optic nerve drusen; a case report. *Ophthalmic Surg* 1989;20:38–41.
- [1300] Denis P, Nordmann J-P, Laroche L, et al. Branch retinal vein occlusion associated with a sarcoid choroidal granuloma. *Am J Ophthalmol* 1992;113:333–4.
- [1301] Miller SA, Bresnick GH. Retinal branch vessel occlusion in acute intermittent porphyria. *Ann Ophthalmol* 1979;11:1379–83.
- [1302] Bowers DK, Finkelstein D, Wolff SM, et al. Branch retinal vein

- occlusion; a clinicopathologic case report. *Retina* 1987;7:252-9.
- [1303] Danis RP, Wallow IHL. Microvascular changes in experimental branch retinal vein occlusion. *Ophthalmology* 1987;94:1213-21.
- [1304] de Juan Jr E, Stefánsson E, Dickson JS. Capillary endothelial-cell mitogenic activity in experimental branch vein occlusion. *Graefes Arch Clin Exp Ophthalmol* 1990;228:191-4.
- [1305] Rosen DA, Marshall J, Kohner EM, et al. Experimental retinal branch vein occlusion in rhesus monkeys. II. Retinal blood flow studies. *Br J Ophthalmol* 1979;63:388-92.
- [1306] Wallow IHL, Danis RP, Bindley C, et al. Cystoid macular degeneration in experimental branch retinal vein occlusion. *Ophthalmology* 1988;95:1371-9.
- [1307] Cairns JD. Photocoagulation in the treatment of retinal branch vein occlusion. *Aust J Ophthalmol* 1974;2:5-9.
- [1308] Cox MS, Whitmore PV, Gutow RF. Treatment of intravitreal and prepapillary neovascularization following branch retinal vein occlusion. *Trans Am Acad Ophthalmol Otolaryngol* 1975;79:OP387-OP393.
- [1309] Finkelstein D. Argon laser photocoagulation for macular edema in branch vein occlusion. *Ophthalmology* 1986;93:975-7.
- [1310] Flindall RJ. Photocoagulation in chronic cystoid macular oedema secondary to branch vein occlusion. *Can J Ophthalmol* 1972;7:395-404.
- [1311] Gitter KA, Cohen G, Baber BW. Photocoagulation in venous occlusive disease. *Am J Ophthalmol* 1975;79:578-81.
- [1312] Kelley JS, Patz A, Schatz H. Management of retinal branch vein occlusion: the role of argon laser photocoagulation. *Ann Ophthalmol* 1974;6:1123-34.
- [1313] Krill AE, Archer D, Newell FW. Photocoagulation in complications secondary to branch vein occlusion. *Arch Ophthalmol* 1971;85:48-60.
- [1314] Laatikainen L. Photocoagulation in retinal venous occlusion. *Acta Ophthalmol* 1977;55:478-88.
- [1315] Wetzig PC. The treatment of acute branch vein occlusion by photocoagulation. *Am J Ophthalmol* 1979;87:65-73.
- [1316] Oncel M, Peyman GA, Khoobehi B. Tissue plasminogen activator in the treatment of experimental retinal vein occlusion. *Retina* 1989;9:1-7.
- [1317] Osterloh MD, Charles S. Surgical decompression of branch retinal vein occlusions. *Arch Ophthalmol* 1988;106:1469-71.
- [1318] Pollock S, Miller NR. Central retinal vein occlusion complicating spontaneous carotid-cavernous fistula. *Arch Ophthalmol* 1986;104:331.
- [1319] Fechtner RD, Minckler D, Weinreb RN, et al. Complications of glaucoma surgery; ocular decompression retinopathy. *Arch Ophthalmol* 1992;110:965-8.
- [1320] Vijayasekaran S, McAllister IL, Morgan WH, et al. Intravitreal triamcinolone acetonide induced changes in the anterior segment in a pig model of branch retinal vein occlusion. *Graefes Arch Clin Exp Ophthalmol* 2010;249:215-22.
- [1321] Rouvas A, Petrou P, Ntouraki A, et al. Intravitreal ranibizumab (Lucentis) for branch retinal vein occlusion-induced macular edema: nine-month results of a prospective study. *Retina* 2010;30:893-902.
- [1322] Parveen S, Narayanan R, Sambhav K, et al. Bevacizumab compared with macular laser grid photocoagulation for cystoid macular edema in branch retinal vein occlusion. *Retina* 2010;30:1324-5.
- [1323] Campochiaro PA, Hafiz G, Shah SM, et al. Sustained ocular delivery of fluocinolone acetonide by an intravitreal insert. *Ophthalmology* 2010;117(1393-1399):e3.
- [1324] Scott IU, Ip MS, VanVeldhuisen PC, et al. A randomized trial comparing the efficacy and safety of intravitreal triamcinolone with standard care to treat vision loss associated with macular edema secondary to branch retinal vein occlusion: the Standard Care vs Corticosteroid for Retinal Vein Occlusion (SCORE) study report 6. *Arch Ophthalmol* 2009;127:1115-28.
- [1325] Russo V, Barone A, Conte E, et al. Bevacizumab compared with macular laser grid photocoagulation for cystoid macular edema in branch retinal vein occlusion. *Retina* 2009;29:511-5.
- [1326] Hayreh SS, Hayreh MS. Hemi-central retinal vein occlusion; pathogenesis, clinical features, and natural history. *Arch Ophthalmol* 1980;98:1600-9.
- [1327] Appiah AP, Trempe CL. Differences in contributory factors among hemicentral, central, and branch retinal occlusions. *Ophthalmology* 1989;96:364-6.
- [1328] Chopdar A. Hemi-central retinal vein occlusion; pathogenesis, clinical features, natural history and incidence of dual trunk central retinal vein. *Trans Ophthalmol Soc UK* 1982;102:241-8.
- [1329] Chopdar A. Dual trunk central retinal vein incidence in clinical practice. *Arch Ophthalmol* 1984;102:85-7.
- [1330] Brod RD, Shields JA, Shields CL, et al. Unusual retinal and renal vascular lesions in the Klippel-Trenaunay-Weber syndrome. *Retina* 1992;12:355-8.
- [1331] Aisen ML, Bacon BR, Goodman AM, et al. Retinal abnormalities associated with anemia. *Arch Ophthalmol* 1983;101:1049-52.
- [1332] Holt JM, Gordon-Smith EC. Retinal abnormalities in diseases of the blood. *Br J Ophthalmol* 1969;53:145-60.
- [1333] Golnik KC, Newman SA. Anterior ischemic optic neuropathy associated with macrocytic anemia. *J Clin Neuro-Ophthalmol* 1990;10:244-7.
- [1334] Klewin KM, Appen RE, Kaufman PL. Amaurosis and blood loss. *Am J Ophthalmol* 1978;86:669-72.
- [1335] Yap E-Y, Gleaton MS, Buettner H. Visual loss associated with pseudoxanthoma elasticum. *Retina* 1992;12:315-9.
- [1336] Vargiami E, Zafeiriou DI, Gombakis NP, et al. Hemolytic anemia presenting with idiopathic intracranial hypertension. *Pediatr Neurol* 2008;38:53-4.
- [1337] Biousse V, Rucker JC, Vignal C, et al. Anemia and papilledema. *Am J Ophthalmol* 2003;135:437-46.
- [1338] Taylor HR, Tikellis G, Robman LD, et al. Vitamin E supplementation and macular degeneration: randomised controlled trial. *BMJ* 2002;325:11.
- [1339] Singh R, Gupta V, Gupta A, et al. Spontaneous closure of microaneurysms in diabetic retinopathy with treatment of co-existing anaemia. *Br J Ophthalmol* 2005;89:248-9.
- [1340] Foster RM. The incidence of retinal haemorrhages in severe anaemia. *Trans R Soc Trop Med Hyg* 1970;64:99-101.
- [1341] Mansour AM. Aplastic anemia simulating central retinal vein occlusion. *Am J Ophthalmol* 1985;100:478-9.
- [1342] Merin S, Freund M. Retinopathy in severe anemia. *Am J Ophthalmol* 1968;66:1102-6.
- [1343] Rubenstein RA, Yanoff M, Albert DM. Thrombocytopenia, anemia, and retinal hemorrhage. *Am J Ophthalmol* 1968;65:435-9.
- [1344] Vaiser A, Hutton WL, Marengo-Rowe AJ, et al. Retinal hemorrhage associated with thrombasthenia. *Am J Ophthalmol* 1975;80:258-62.
- [1345] Ashton N, Kok D'A, Foulds WS. Ocular pathology in macroglobulinaemia. *J Pathol Bacteriol* 1963;86:453-61.
- [1346] Carr RE, Henkind P. Retinal findings associated with serum hyperviscosity. *Am J Ophthalmol* 1963;56:23-31.
- [1347] Friedman AH, Marchevsky A, Odel JG, et al. Immunofluorescent studies of the eye in Waldenström's macroglobulinemia. *Arch Ophthalmol* 1980;98:743-6.
- [1348] Thomas EL, Olk RJ, Markman M, et al. Irreversible visual loss in Waldenström's macroglobulinaemia. *Br J Ophthalmol*

- 1983;67:102-6.
- [1349] Sanders TE, Podos SM, Rosenbaum LJ. Intraocular manifestations of multiple myeloma. *Arch Ophthalmol* 1967;77:789-94.
- [1350] Sarnat RL, Jampol LM. Hyperviscosity retinopathy secondary to polyclonal gammopathy in a patient with rheumatoid arthritis. *Ophthalmology* 1986;93:124-7.
- [1351] Enzenauer RJ, Stock JG, Enzenauer RW, et al. Retinal vasculopathy associated with systemic light chain deposition disease. *Retina* 1990;10:115-8.
- [1352] Fredrickson DS, Levy RI. Familial hyperlipoproteinemia. In: Stanbury JB, Wyngaarden JB, Fredrickson DS, editors. *The metabolic basis of inherited disease*. New York: McGraw-Hill; 1972. p. 92, 3rd ed. 545.
- [1353] Dunphy EB. Ocular conditions associated with idiopathic hyperlipemia. *Am J Ophthalmol* 1950;33:1579-86.
- [1354] Martinez KR, Cibis GW, Tauber JT. Lipemia retinalis. *Arch Ophthalmol* 1992;110:1171.
- [1355] Orlin C, Lee K, Jampol LM, et al. Retinal arteriolar changes in patients with hyperlipidemias. *Retina* 1988;8:6-9.
- [1356] Blodi FC. Retinal involvement in idiopathic hyperlipemia. *Trans Am Acad Ophthalmol Otolaryngol* 1960;64:720-5.
- [1357] Kurz GH, Shakib M, Sohmer KK, et al. The retina in type 5 hyperlipoproteinemia. *Am J Ophthalmol* 1976;82:32-43.
- [1358] Dodson PM, Galton DJ, Winder AF. Retinal vascular abnormalities in the hyperlipidaemias. *Trans Ophthalmol Soc UK* 1981;101:17-21.
- [1359] Stock JG, Pope Jr J, Enzenauer RW. Retinal findings in the fat overload syndrome. *Arch Ophthalmol* 1990;108:329.
- [1360] Yassar Y, Smir M, Ben-Sira I. Cherry red spot maculopathy after hyperalimentation for Crohn's disease. In: Fine SL, Owens SL, editors. *Management of retinal vascular and macular disorders*. Baltimore: Williams & Wilkins; 1983. p. 156-8.
- [1361] Jager RD, Timothy NH, Coney JM, et al. Congenital retinal macrovessel. *Retina* 2005;25:538-40.
- [1362] Schwartz SG, Hickey M, Puliafito CA. Bilateral CRAO and CRVO from thrombotic thrombocytopenic purpura: OCT findings and treatment with triamcinolone acetonide and bevacizumab. *Ophthalmic Surg Lasers Imaging* 2006;37:420-2.
- [1363] Hall S, Buettner H, Luthra HS. Occlusive retinal vascular disease in systemic lupus erythematosus. *J Rheumatol* 1984;11:846-50.

## 第7章

- [1] Bartsch D-U, Intaglietta M, Bille JF, et al. Confocal laser tomographic analysis of the retina in eyes with macular hole formation and other focal macular diseases. *Am J Ophthalmol* 1989;108:277-87.
- [2] Hee MR, Puliafito CA, Wong C, et al. Optical coherence tomography of macular holes. *Ophthalmology* 1995;102:748-56.
- [3] Kiryu J, Shahidi M, Ogura Y, et al. Illustration of the stages of idiopathic macular holes by laser biomicroscopy. *Arch Ophthalmol* 1995;113:1156-60.
- [4] Ogura Y, Shahidi M, Mori MT, et al. Improved visualization of macular hole lesions with laser biomicroscopy. *Arch Ophthalmol* 1991;109:957-61.
- [5] Mirza RG, Johnson MW, Jampol LM. Optical coherence tomography use in evaluation of the vitreoretinal interface: a review. *Surv Ophthalmol* 2007;52:397-421.
- [6] Karatas M, Ramirez JA, Ophir A. Diabetic vitreopapillary traction and macular oedema. *Eye (Lond)* 2005;19:676-82.
- [7] Drexler W, Morgner U, Ghanta RK, et al. Ultrahigh-resolution ophthalmic optical coherence tomography. *Nat Med* 2001;7:502-7.
- [8] Huang D, Swanson EA, Lin CP, et al. Optical coherence tomography. *Science* 1991;254:1178-81.
- [9] Coleman DJ, Daly SW, Atencio A, et al. Ultrasonic evaluation of the vitreous and retina. *Semin Ophthalmol* 1998;13:210-8.
- [10] Foos RY. Vitreoretinal juncture; topographical variations. *Invest Ophthalmol* 1972;11:801-8.
- [11] Roth AM, Foos RY. Surface structure of the optic nerve head. I. Epipapillary membranes. *Am J Ophthalmol* 1972;74:977-85.
- [12] Foos RY. Subhyaloid hemorrhage illustrating a mechanism of macular hole formation. *Arch Ophthalmol* 1992;110:598.
- [13] Kishi S, Demaria C, Shimizu K. Vitreous cortex remnants at the fovea after spontaneous vitreous detachment. *Int Ophthalmol* 1986;9:253-60.
- [14] Nork TM, Gioia VM, Hobson RR, et al. Subhyaloid hemorrhage illustrating a mechanism of macular hole formation. *Arch Ophthalmol* 1991;109:884-5.
- [15] Sebag J. Age-related changes in human vitreous structure. *Graefes Arch Clin Exp Ophthalmol* 1987;225:89-93.
- [16] Kishi S, Shimizu K. Posterior precortical vitreous pocket. *Arch Ophthalmol* 1990;108:979-82.
- [17] Kishi S, Shimizu K. Reply to letter by JGF Worst. *Arch Ophthalmol* 1991;109:1060.
- [18] Kishi S, Yokozuka K, Tobe K. Bursa premacularis. *Acta Soc Ophthalmol Jpn* 1988;92:1881-8.
- [19] Worst J. Extracapsular surgery in lens implantation (Binkhorst lecture). Part IV: Some anatomical and pathophysiological implications. *Am Intra-Ocular Implant Soc J* 1978;4:7-14.
- [20] Worst JGF. Cisternal systems of the fully developed vitreous body in the young adult. *Trans Ophthalmol Soc UK* 1977;97:550-4.
- [21] Worst JGF. Posterior precortical vitreous pocket. *Arch Ophthalmol* 1991;109:1058-9.
- [22] Sebag J. Vitreous: the resplendent enigma. *Br J Ophthalmol* 2009;93:989-91.
- [23] Eisner G. Biomicroscopy of the peripheral fundus: an atlas and textbook. Berlin: Springer; 1973. p. 45.
- [24] Foos RY, Wheeler NC. Vitreoretinal juncture: synchysis senilis and posterior vitreous detachment. *Ophthalmology* 1982;89:1502-12.
- [25] Jaffe NS. Complications of acute posterior vitreous detachment. *Arch Ophthalmol* 1968;79:568-71.
- [26] Reese AB, Jones IS, Cooper WC. Macular changes secondary to vitreous traction. *Am J Ophthalmol* 1967;64:544-9.
- [27] Sebag J. Age-related differences in the human vitreoretinal interface. *Arch Ophthalmol* 1991;109:966-71.
- [28] Tabotabo MM, Karp LA, Benson WE. Posterior vitreous detachment. *Ann Ophthalmol* 1980;12:59-61.
- [29] Tasman WS. Posterior vitreous detachment and peripheral retinal breaks. *Trans Am Acad Ophthalmol Otolaryngol* 1968;72:217-24.
- [30] Linder B. Acute posterior vitreous detachment and its retinal complications; a clinical biomicroscopic study. *Acta Ophthalmol Suppl* 1966:87.
- [31] Cibis GW, Watzke RC, Chua J. Retinal hemorrhages in posterior



- vitreous detachment. *Am J Ophthalmol* 1975;80:1043-6.
- [32] Schachat AP, Sommer A. Macular hemorrhages associated with posterior vitreous detachment. *Am J Ophthalmol* 1986;102:647-9.
- [33] Yonemoto J, Ideta H, Sasaki K, et al. The age of onset of posterior vitreous detachment. *Graefes Arch Clin Exp Ophthalmol* 1994;232:67-70.
- [34] Sebag J. To see the invisible: the quest of imaging vitreous. *Dev Ophthalmol* 2008;42:5-28.
- [35] Johnson MW. Perifoveal vitreous detachment and its macular complications. *Trans Am Ophthalmol Soc* 2005;103:537-67.
- [36] Sebag J. Classifying posterior vitreous detachment: a new way to look at the invisible. *Br J Ophthalmol* 1997;81:521.
- [37] Gandorfer A, Rohleder M, Kampik A. Epiretinal pathology of vitreomacular traction syndrome. *Br J Ophthalmol* 2002;86:902-9.
- [38] Jaffe NS. Vitreous traction at the posterior pole of the fundus due to alterations in the vitreous posterior. *Trans Am Acad Ophthalmol Otolaryngol* 1967;71:642-51.
- [39] Kanski JJ. Complications of acute posterior vitreous detachment. *Am J Ophthalmol* 1975;80:44-6.
- [40] Novak MA, Welch RB. Complications of acute symptomatic posterior vitreous detachment. *Am J Ophthalmol* 1984;97:308-14.
- [41] Boniuk M. Cystic macular edema secondary to vitreoretinal traction. *Surv Ophthalmol* 1968;13:118-21.
- [42] Machermer R, Williams Sr JM. Pathogenesis and therapy of traction detachment in various retinal vascular diseases. *Am J Ophthalmol* 1988;105:170-81.
- [43] McDonald HR, Johnson RN, Schatz H. Surgical results in the vitreomacular traction syndrome. *Ophthalmology* 1994;101:1397-403.
- [44] Reese AB, Jones IS, Cooper WC. Vitreomacular traction syndrome confirmed histologically. *Am J Ophthalmol* 1970;69:975-7.
- [45] Smiddy WE, Green WR, Michels RG, et al. Ultrastructural studies of vitreomacular traction syndrome. *Am J Ophthalmol* 1989;107:177-85.
- [46] Smiddy WE, Michels RG, Glaser BM, et al. Vitrectomy for macular traction caused by incomplete vitreous separation. *Arch Ophthalmol* 1988;106:624-8.
- [47] Smiddy WE, Michels RG, Green WR. Morphology, pathology, and surgery of idiopathic vitreoretinal macular disorders; a review. *Retina* 1990;10:288-96.
- [48] Jagger JD, Hamilton AMP, Polkinghorne P. Q-switched neodymium YAG laser vitreolysis in the therapy of posterior segment disease. *Graefes Arch Clin Exp Ophthalmol* 1990;228:222-5.
- [49] Benson WE, Tasman W. Rhegmatogenous retinal detachments caused by paravascular vitreoretinal traction. *Arch Ophthalmol* 1984;102:669-70.
- [50] de Bustros S, Welch RB. The avulsed retinal vessel syndrome and its variants. *Ophthalmology* 1984;91:86-8.
- [51] Folk JC, Ma C, Blodi CF, et al. Occlusion of bridging or avulsed retinal vessels by repeated photocoagulation. *Ophthalmology* 1987;94:1610-3.
- [52] Robertson DM, Curtin VT, Norton EWD. Avulsed retinal vessels with retinal breaks; a cause of recurrent vitreous hemorrhage. *Arch Ophthalmol* 1971;85:669-72.
- [53] Vine AK. Avulsed retinal veins without retinal breaks. *Am J Ophthalmol* 1984;98:723-7.
- [54] Bonnet M. Hyperfluorescence papillaire par tardif du vitré. *J Fr Ophtalmol* 1991;14:529-36.
- [55] Aaberg TM. Macular holes; a review. *Surv Ophthalmol* 1970;15:139-62.
- [56] Aaberg TM, Blair CJ, Gass JDM. Macular holes. *Am J Ophthalmol* 1970;69:555-62.
- [57] Avila MP, Jalkh AE, Murakami K, et al. Biomicroscopic study of the vitreous in macular breaks. *Ophthalmology* 1983;90:1277-83.
- [58] Gass JDM. Idiopathic senile macular hole; its early stages and pathogenesis. *Arch Ophthalmol* 1988;106:629-39.
- [59] James M, Feman SS. Macular holes. Albrecht von Graefes Arch Klin Exp Ophthalmol 1980;215:59-63.
- [60] Kruis JA, Bastiaensen LAK, Hoefnagels KJJ. Senile idiopathic macular holes. *Doc Ophthalmol* 1983;55:81-9.
- [61] Margherio RR, Schepens CL. Macular breaks. I. Diagnosis, etiology, and observations. *Am J Ophthalmol* 1972;74:219-32.
- [62] McDonnell PJ, Fine SL, Hillis AI. Clinical features of idiopathic macular cysts and holes. *Am J Ophthalmol* 1982;93:777-86.
- [63] Morgan CM, Schatz H. Idiopathic macular holes. *Am J Ophthalmol* 1985;99:437-44.
- [64] Murakami K. Biomicroscopic observation of macular breaks. *Hokkaido Igaku Zasshi* 1985;60:335-41.
- [65] Yaoeda H. Clinical observation on macular hole. *Acta Soc Ophthalmol Jpn* 1967;71:1723-36.
- [66] Yoshioka H. Clinical studies on macular hole. III. On the pathogenesis of the senile macular hole. *Acta Soc Ophthalmol Jpn* 1968;72:575-84.
- [67] Gaudric A, Haouchine B, Massin P, et al. Macular hole formation: new data provided by optical coherence tomography. *Arch Ophthalmol* 1999;117:744-51.
- [68] Spaide RF, Wong D, Fisher Y, et al. Correlation of vitreous attachment and foveal deformation in early macular hole states. *Am J Ophthalmol* 2002;133:226-9.
- [69] Ezra E. Idiopathic full thickness macular hole: natural history and pathogenesis. *Br J Ophthalmol* 2001;85:102-8.
- [70] Gass JD. Müller cell cone, an overlooked part of the anatomy of the fovea centralis: hypotheses concerning its role in the pathogenesis of macular hole and foveomaculr retinoschisis. *Arch Ophthalmol* 1999;117:821-3.
- [71] Yamada Y, Miljkovic D, Wehrli P, et al. A new type of corrin synthesis. *Angew Chem Int Ed Engl* 1969;8:343-8.
- [72] Spaide RF. Closure of an outer lamellar macular hole by vitrectomy: hypothesis for one mechanism of macular hole formation. *Retina* 2000;20:587-90.
- [73] Gass JDM. Reappraisal of biomicroscopic classification of stages of development of a macular hole. *Am J Ophthalmol* 1995;119:752-9.
- [74] Hogan MJ, Alvarado JA, Weddell JE. Histology of the human eye; an atlas and textbook. Philadelphia: WB Saunders; 1971. p. 491-92.
- [75] Campochiaro PA, Van Niel E, Vinos SA. Immunocytochemical labeling of cells in cortical vitreous from patients with premacular hole lesions. *Arch Ophthalmol* 1992;110:371-7.
- [76] Thompson JT, Hiner CJ, Glaser BM, et al. Fluorescein angiographic characteristics of macular holes before and after vitrectomy with transforming growth factor beta-2. *Am J Ophthalmol* 1994;117:291-301.
- [77] Hikichi T, Trempe CL. Risk of decreased visual acuity in full-thickness idiopathic macular holes. *Am J Ophthalmol* 1993;116:708-12.
- [78] Smith RG, Hardman Lea SJ, Galloway NR. Visual performance in idiopathic macular holes. *Eye* 1990;4:190-4.
- [79] Sjaarda RN, Frank DA, Glaser BM, et al. Assessment of vision in idiopathic macular holes with macular microperimetry using the scanning laser ophthalmoscope. *Ophthalmology* 1993;100:1513-8.
- [80] Sjaarda RN, Frank DA, Glaser BM, et al. Resolution of an absolute scotoma and improvement of relative scotoma after successful macular hole surgery. *Am J Ophthalmol* 1993;116:129-39.
- [81] Acosta F, Lashkari K, Reynaud X, et al. Characterization of functional changes in macular holes and cysts. *Ophthalmology* 1991;98:1820-3.

- [82] Callanan DG, Blodi BA, Lubinski WP, et al. S (blue) cone perimetry in macular holes before and after vitrectomy. *ARVO Abstract 1415. Invest Ophthalmol Vis Sci* 1993;34:990.
- [83] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 334.
- [84] Gass JDM, Joondeph BC. Observations concerning patients with suspected impending macular holes. *Am J Ophthalmol* 1990;109:638-46.
- [85] Frangieh GT, Green WR, Engel HM. A histopathologic study of macular cysts and holes. *Retina* 1981;1:311-36.
- [86] de Bustros S. The Vitrectomy for Prevention of Macular Hole Study Group. Vitrectomy for prevention of macular holes; results of a randomized multicenter clinical trial. *Ophthalmology* 1994;101:1055-9.
- [87] Guyer DR, de Bustros S, Diener-West M, et al. Observations on patients with idiopathic macular holes and cysts. *Arch Ophthalmol* 1992;110:1264-8.
- [88] Wiznia RA. Reversibility of the early stages of idiopathic macular holes. *Am J Ophthalmol* 1989;107:241-5.
- [89] Gass JDM, Van Newkirk M. Xanthic scotoma and yellow foveolar shadow caused by a pseudo-operculum after vitreofoveal separation. *Retina* 1992;12:242-4.
- [90] Cairns JD, MacCombe MF. Microholes of the fovea centralis. *Aust NZ J Ophthalmol* 1988;16:75-9.
- [91] Akiba J, Quiroz MA, Trempe CL. Role of posterior vitreous detachment in idiopathic macular holes. *Ophthalmology* 1990;97:1610-3.
- [92] Akiba J, Yoshida A, Trempe CL. Risk of developing a macular hole. *Arch Ophthalmol* 1990;108:1088-90.
- [93] Gordon LW, Glaser BM, Darmakusuma I, et al. Full-thickness macular hole formation in eyes with a pre-existing complete posterior vitreous detachment. *Ophthalmology* 1995;102:1702-5.
- [94] Hikichi T, Trempe CL. Relationship between floaters, light flashes, or both, and complications of posterior vitreous detachment. *Am J Ophthalmol* 1994;117:593-8.
- [95] Johnson RN, Gass JDM. Idiopathic macular holes; observations, stages of formation, and implications for surgical intervention. *Ophthalmology* 1988;95:917-24.
- [96] Bidwell AE, Jampol LM. Macular holes and excellent visual acuity. *Arch Ophthalmol* 1988;106:1350-1.
- [97] Hikichi T, Trempe CL. Resolution of an absolute scotoma after spontaneous disappearance of idiopathic full-thickness macular hole. *Am J Ophthalmol* 1994;118:121-2.
- [98] Yuzawa M, Watanabe A, Takahashi Y, et al. Observation of idiopathic full-thickness macular holes; follow-up observation. *Arch Ophthalmol* 1994;112:1051-6.
- [99] Lewis H, Cowan GM, Straatsma BR. Apparent disappearance of a macular hole associated with development of an epiretinal membrane. *Am J Ophthalmol* 1986;102:172-5.
- [100] Birch DG, Jost BF, Fish GE. The focal electroretinogram in fellow eyes of patients with idiopathic macular holes. *Arch Ophthalmol* 1988;106:1558-63.
- [101] Gass JDM. Risk of developing macular hole. *Arch Ophthalmol* 1991;109:610-1.
- [102] Kishi S, Yokozuka K, Kamei Y. The state of the vitreous in idiopathic macular holes. *Acta Soc Ophthalmol Jpn* 1991;95:678-85.
- [103] Trempe CL, Weiter JJ, Furukawa H. Fellow eyes in cases of macular hole; biomicroscopic study of the vitreous. *Arch Ophthalmol* 1986;104:93-5.
- [104] Bronstein MA, Trempe CL, Freeman HM. Fellow eyes of eyes with macular holes. *Am J Ophthalmol* 1981;92:757-61.
- [105] Fish RH, Anand R, Izbrand DJ. Macular pseudoholes; clinical features and accuracy of diagnosis. *Ophthalmology* 1992;99:1665-70.
- [106] Fisher YL, Slakter JS, Yannuzzi LA, et al. A prospective natural history study and kinetic ultrasound evaluation of idiopathic macular holes. *Ophthalmology* 1994;101:5-11.
- [107] Guyer DR, Green WR, de Bustros S, et al. Histopathologic features of idiopathic macular holes and cysts. *Ophthalmology* 1990;97:1045-51.
- [108] Lewis ML, Cohen S, Smiddy WE, et al. Bilaterality of idiopathic macular holes. *Graefes Arch Clin Exp Ophthalmol* 1996;234:241-5.
- [109] Smiddy WE. Atypical presentations of macular holes. *Arch Ophthalmol* 1993;111:626-31.
- [110] Sebag J. Tissue analysis from two patients with premacular hole lesions. *Arch Ophthalmol* 1993;111:22.
- [111] Smiddy WE, Michels RG, de Bustros S, et al. Histopathology of tissue removed during vitrectomy for impending idiopathic macular holes. *Am J Ophthalmol* 1989;108:360-4.
- [112] Morgan CM, Schatz H. Involutional macular thinning; a pre-macular hole condition. *Ophthalmology* 1986;93:153-61.
- [113] Kornzweig AL, Feldstein M. Studies of the eye in old age. II. Hole in the macula: a clinico-pathologic study. *Am J Ophthalmol* 1950;33:243-7.
- [114] Larsson L, Österlin S. Posterior vitreous detachment; a combined clinical and physicochemical study. *Graefes Arch Clin Exp Ophthalmol* 1985;223:92-5.
- [115] Gass JDM. Lamellar macular hole: a complication of cystoid macular edema after cataract extraction: clinicopathologic case report. *Trans Am Ophthalmol Soc* 1975;73:231-50. [Also *Ophthalmol* 1976;94:793-800.]
- [116] Martinez J, Smiddy WE, Kim J, et al. Differentiating macular holes from macular pseudoholes. *Am J Ophthalmol* 1994;117:762-7.
- [117] Smiddy WE, Gass JDM. Masquerades of macular holes. *Ophthalmic Surg* 1995;26:16-24.
- [118] Dugel PU, Smiddy WE, Byrne SF, et al. Macular hole syndromes; echographic findings with clinical correlation. *Ophthalmology* 1994;101:815-21.
- [119] Fisher YL, Slakter JS, Friedman RA, et al. Kinetic ultrasound evaluation of the posterior vitreoretinal interface. *Ophthalmology* 1991;98:1135-8.
- [120] Van Newkirk MR, Gass JDM, Callanan D, et al. Follow-up and ultrasonographic examination of patients with macular pseudo-operculum. *Am J Ophthalmol* 1994;117:13-18.
- [121] Chambers RB, Davidorf FH, Gresak P, et al. Modified vitrectomy for impending macular holes. *Ophthalmic Surg* 1991;22:730-4.
- [122] Gass JDM, Discussion of Glaser BM, Michels RG, Kuppermann BD, et al. Transforming growth factor- $\beta_2$  for the treatment of full-thickness macular holes; a prospective randomized study. *Ophthalmology* 1992;99:1173.
- [123] Jost BF, Hutton WL, Fuller DG, et al. Vitrectomy in eyes at risk for macular hole formation. *Ophthalmology* 1990;97:843-7.
- [124] Margherio RR, Trese MT, Margherio AR, et al. Surgical management of vitreomacular traction syndromes. *Ophthalmology* 1989;96:1437-45.
- [125] Smiddy WE, Michels RG, Glaser BM, et al. Vitrectomy for impending idiopathic macular holes. *Am J Ophthalmol* 1988;105:371-6.
- [126] de Bustros S. Editorial: early stages of macular holes; to treat or not to treat. *Arch Ophthalmol* 1990;108:1085.
- [127] Kelly NE, Wendel RT. Vitreous surgery for idiopathic macular holes; results of a pilot study. *Arch Ophthalmol* 1991;109:654-9.
- [128] Glaser BM, Michels RG, Kuppermann BD, et al. Transforming growth factor- $\beta_2$  for the treatment of full-thickness macular holes; a prospective randomized study. *Ophthalmology*

- 1992;99:1162-72.
- [129] Poliner LS, Tornambe PE. Retinal pigment epitheliopathy after macular hole surgery. *Ophthalmology* 1992;99:1671-7.
- [130] Mein CE, Flynn Jr HW. Recognition and removal of the posterior cortical vitreous during vitreoretinal surgery for impending macular hole. *Am J Ophthalmol* 1991;111:611-3.
- [131] Ruby AJ, Williams DF, Grand MG, et al. Pars plana vitrectomy for treatment of stage 2 macular holes. *Arch Ophthalmol* 1994;112:359-64.
- [132] Smiddy WE, Glaser BM, Green WR, et al. Transforming growth factor beta; a biologic chorioretinal glue. *Arch Ophthalmol* 1989;107:577-80.
- [133] Smiddy WE, Glaser BM, Thompson JT, et al. Transforming growth factor- $\beta_2$  significantly enhances the ability to flatten the rim of subretinal fluid surrounding macular holes; preliminary anatomic results of a multicenter prospective randomized study. *Retina* 1993;13:296-301.
- [134] Wendel RT, Patel AC, Kelly NE, et al. Vitreous surgery for macular holes. *Ophthalmology* 1993;100:1671-6.
- [135] Liggett PE, Alfaro DV, Horio B, et al. Autologous serum as a tissue adhesive in the treatment of idiopathic macular holes. *Ophthalmology* 1993;100(Suppl.):73.
- [136] Duker JS, Wendel R, Patel AC, et al. Late re-opening of macular holes after initially successful treatment with vitreous surgery. *Ophthalmology* 1994;101:1373-8.
- [137] Ie D, Glaser BM, Thompson JT, et al. Retreatment of full-thickness macular holes persisting after prior vitrectomy; a pilot study. *Ophthalmology* 1993;100:1787-93.
- [138] Charles S. Retinal pigment epithelial abnormalities after macular hole surgery. *Retina* 1993;13:176.
- [139] Duker JS. Retinal pigment epitheliopathy after macular hole surgery. *Ophthalmology* 1993;100:1604-5.
- [140] Lansing MB, Glaser BM, Liss H, et al. The effect of pars plana vitrectomy and transforming growth factor-beta 2 without epiretinal membrane peeling on full-thickness macular holes. *Ophthalmology* 1993;100:868-72.
- [141] Melberg NS, Thomas MA. Visual field loss after pars plana vitrectomy with air/fluid exchange. *Am J Ophthalmol* 1995;120:386-8.
- [142] Freeman WR. Editorial: Vitrectomy surgery for full-thickness macular holes. *Am J Ophthalmol* 1993;116:233-5.
- [143] Funata M, Wendel RT, de la Cruz Z, et al. Clinicopathologic study of bilateral macular holes treated with pars plana vitrectomy and gas tamponade. *Retina* 1992;12:289-98.
- [144] Madreperla SA, Geiger GL, Funata M, et al. Clinicopathologic correlation of a macular hole treated by cortical vitreous peeling and gas tamponade. *Ophthalmology* 1994;101:682-6.
- [145] Fine SL. Editorial: Vitreous surgery for macular hole in perspective. Is there an indication?. *Arch Ophthalmol* 1991;109:635-6.
- [146] de Bustros S, Thompson JT, Michels RG, et al. Nuclear sclerosis after vitrectomy for idiopathic epiretinal membranes. *Am J Ophthalmol* 1988;105:160-4.
- [147] Schocket SS, Lakhanpal V, Xiaoping M, et al. Laser treatment of macular holes. *Ophthalmology* 1988;95:574-82.
- [148] Makabe R. Kryptonlaserkoagulation bei idiopathischem Makulaloch. *Klin Monatsbl Augenheilkd* 1990;196:202-4.
- [149] Flynn Jr HW. Macular hole surgery in patients with proliferative diabetic retinopathy. *Arch Ophthalmol* 1994;112:877-8.
- [150] Siam A-L. Macular hole with central retinal detachment in high myopia with posterior staphyloma. *Br J Ophthalmol* 1969;53:62-3.
- [151] Blodi CF, Folk JC. Treatment of macular hole retinal detachments with intravitreal gas. *Am J Ophthalmol* 1984;98:811.
- [152] Gonvers M, Machemer R. A new approach to treating retinal detachment with macular hole. *Am J Ophthalmol* 1982;94:468-72.
- [153] Klöti R. Erfahrungen mit der Silberklemme bei Makulalochbedingten Netzhautablösungen. *Ophthalmologica* 1970;161:210-6.
- [154] Miyake Y. A simplified method of treating retinal detachment with macular hole. *Am J Ophthalmol* 1984;97:243-5.
- [155] Schulenburg WE, Cooling RJ, McLeod D. Management of retinal detachments associated with macular breaks. *Trans Ophthalmol Soc UK* 1983;103:360-4.
- [156] Mehta M, Katsumi O, Tetsuka S, et al. Best's macular dystrophy with a macular hole. *Acta Ophthalmol* 1991;69:131-4.
- [157] Schachat AP, de la Cruz Z, Green WR, et al. Macular hole and retinal detachment in Best's disease. *Retina* 1985;5:22-5.
- [158] Noble KG, Chang S. Adult vitelliform macular degeneration progressing to full-thickness macular hole. *Arch Ophthalmol* 1991;109:325.
- [159] Lee S, Ai E, Lowe M, Wang T. Bilateral macular holes in sporadic posterior microphthalmos. *Retina* 1990;10:185-8.
- [160] Muñoz FJ, Rebolleda G, Cores FJ, et al. Congenital retinal arteriovenous communication associated with a full-thickness macular hole. *Acta Ophthalmol* 1991;69:117-20.
- [161] Cohen SM, Gass JDM. Macular hole following severe hypertensive retinopathy. *Arch Ophthalmol* 1994;112:878-9.
- [162] Benedict WL, Shami M. Impending macular hole associated with topical pilocarpine. *Am J Ophthalmol* 1992;114:765-6.
- [163] Garlikov RS, Chenoweth RG. Macular hole following topical pilocarpine. *Ann Ophthalmol* 1975;7:1313-6.
- [164] Avins LR, Krummenacher TR. Macular holes after pneumatic retinopexy. *Arch Ophthalmol* 1988;106:724-5.
- [165] Blacharski PA, Newsome DA. Bilateral macular holes after Nd:YAG laser posterior capsulotomy. *Am J Ophthalmol* 1988;105:417-8.
- [166] Gupta P, Yee KM, Garcia P, et al. Vitreoschisis in macular diseases. *Br J Ophthalmol* 2011;95:376-80.
- [167] Clarkson JG, Green WR, Massof D. A histopathologic review of 168 cases of preretinal membrane. *Am J Ophthalmol* 1977;84:1-17.
- [168] Gloor BP. Cellular proliferation on the vitreous surface after photocoagulation. *Albrecht von Graefes Arch Klin Exp Ophthalmol* 1969;178:99-113.
- [169] Jaffe NS. Macular retinopathy after separation of vitreoretinal adherence. *Arch Ophthalmol* 1967;78:585-91.
- [170] Wise GN. Clinical features of idiopathic preretinal macular fibrosis. *Am J Ophthalmol* 1975;79:349-57.
- [171] Allen Jr AW, Gass JDM. Contraction of a perifoveal epiretinal membrane simulating a macular hole. *Am J Ophthalmol* 1976;82:684-91.
- [172] Gass JDM. Fluorescein angiography: an aid to the retinal surgeon. In: Pruett RC, Regan CDJ, editors. *Retina Congress; 25th Anniversary Meeting of the Retina Service, Massachusetts Eye and Ear Infirmary*. New York: Appleton-Century-Crofts; 1972. p. 181-201.
- [173] Mandelcorn MS, Lipton N. Epi-macular holes: a cause of decreased vision in the elderly. *Can J Ophthalmol* 1977;12:182-7.
- [174] Zarbin MA, Michels RG, Green WR. Epiretinal membrane contracture associated with macular prolapse. *Am J Ophthalmol* 1990;110:610-8.
- [175] Bonnet M, Fleury J. Pseudo-trou maculaire tardif après pelage chirurgical d'une membrane prémaculaire. *J Fr Ophtalmol* 1992;15:123-30.
- [176] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 344.

- [177] Robertson DM, Buettner H. Pigmented preretinal membranes. *Am J Ophthalmol* 1977;83:824-9.
- [178] Kampik A, Green WR, Michels RG, et al. Ultrastructural features of progressive idiopathic epiretinal membrane removed by vitreous surgery. *Am J Ophthalmol* 1980;90:797-809.
- [179] Laqua H. Pigmented macular pucker. *Am J Ophthalmol* 1978;86:56-8.
- [180] Wallow IHL, Miller SA. Preretinal membrane by retinal pigment epithelium. *Arch Ophthalmol* 1978;96:1643-6.
- [181] Machemer R, van Horn D, Aaberg TM. Pigment epithelial proliferation in human retinal detachment with massive periretinal proliferation. *Am J Ophthalmol* 1978;85:181-91.
- [182] Curtin VT. Pathologic changes following retinal detachment surgery. Symposium on retina and retinal surgery: transactions of the New Orleans Academy of Ophthalmology. St. Louis: CV Mosby; 1969. p. 147-70.
- [183] Gass JDM. Stereoscopic atlas of macular diseases a funduscopy and angiographic presentation. St. Louis: CV Mosby; 1970. p. 215.
- [184] Messner KH. Spontaneous separation of preretinal macular fibrosis. *Am J Ophthalmol* 1977;83:9-11.
- [185] Summers KD, Jampol LM, Goldberg MF, et al. Spontaneous separation of epiretinal membranes. *Arch Ophthalmol* 1980;98:318-20.
- [186] Byer NE. Spontaneous disappearance of early postoperative preretinal retraction; a sequel of retinal detachment surgery. *Arch Ophthalmol* 1973;90:133-5.
- [187] Roth AM, Foos RY. Surface wrinkling retinopathy in eyes enucleated at autopsy. *Trans Am Acad Ophthalmol Otolaryngol* 1971;75:1047-58.
- [188] Scudder MJ, Eifrig DE. Spontaneous surface wrinkling retinopathy. *Ann Ophthalmol* 1975;7:333-41.
- [189] Sidd RJ, Fine SL, Owens SL, et al. Idiopathic preretinal gliosis. *Am J Ophthalmol* 1982;94:44-8.
- [190] Wise GN. Congenital preretinal macular fibrosis. *Am J Ophthalmol* 1975;79:363-5.
- [191] Barr CC, Michels RG. Idiopathic nonvascularized epiretinal membranes in young patients: report of six cases. *Ann Ophthalmol* 1982;14:335-41.
- [192] Kimmel AS, Weingeist TA, Blodi CF, et al. Idiopathic premacular gliosis in children and adolescents. *Am J Ophthalmol* 1989;108:578-81.
- [193] Mulligan TG, Daily MJ. Spontaneous peeling of an idiopathic epiretinal membrane in a young patient. *Arch Ophthalmol* 1992;110:1367-8.
- [194] Smiddy WE, Michels RG, Gilbert HD, et al. Clinicopathologic study of idiopathic macular pucker in children and young adults. *Retina* 1992;12:232-6.
- [195] Tetsumoto K, Nakahashi K, Tsukahara Y, et al. Two cases of idiopathic preretinal macular fibrosis in children. *Acta Soc Ophthalmol Jpn* 1990;94:875-81.
- [196] Gass JDM. A fluorescein angiographic study of macular dysfunction secondary to retinal vascular disease. III. Hypertensive retinopathy. *Arch Ophthalmol* 1968;80:569-82.
- [197] Appiah AP, Hirose T. Secondary causes of premacular fibrosis. *Ophthalmology* 1989;96:389-92.
- [198] Cleary PE, Leaver PK. Macular abnormalities in the reattached retina. *Br J Ophthalmol* 1978;62:595-603.
- [199] Gloor BP. On the question of the origin of macrophages in the retina and the vitreous following photocoagulation (autoradiographic investigations by means of [<sup>3</sup>H]-thymidine). *Albrecht von Graefes Arch Klin Exp Ophthalmol* 1974;190:183.
- [200] Sabates NR, Sabates FN, Sabates R, et al. Macular changes after retinal detachment surgery. *Am J Ophthalmol* 1989;108:22-9.
- [201] Uemura A, Ideta H, Nagasaki H, et al. Macular pucker after retinal detachment surgery. *Ophthalmic Surg* 1992;23:116-9.
- [202] Hagler WS, Aturaliya U. Macular puckers after retinal detachment surgery. *Br J Ophthalmol* 1971;55:451-7.
- [203] Lobes Jr LA, Burton TC. The incidence of macular pucker after retinal detachment surgery. *Am J Ophthalmol* 1978;85:72-7.
- [204] Tanenbaum HL, Schepens CL, Elzeneiny I, et al. Macular pucker following retinal detachment surgery. *Arch Ophthalmol* 1970;83:286-93.
- [205] Bishara SA, Buzney SM. Dispersion of retinal pigment epithelial cells from experimental retinal holes. *Graefes Arch Clin Exp Ophthalmol* 1991;229:195-9.
- [206] Machemer R, Aaberg TM, Freeman HM, et al. An updated classification of retinal detachment with proliferative vitreoretinopathy. *Am J Ophthalmol* 1991;112:159-65.
- [207] Machemer R, Laqua H. Pigment epithelium proliferation in retinal detachment (massive periretinal proliferation). *Am J Ophthalmol* 1975;80:1-23.
- [208] Green WR, Kenyon KR, Michels RG, et al. Ultrastructure of epiretinal membranes causing macular pucker after retinal reattachment surgery. *Trans Ophthalmol Soc UK* 1979;99:63-77.
- [209] Hamilton CW, Chandler D, Klintworth GK, et al. A transmission and scanning electron microscopic study of surgically excised preretinal membrane proliferations in diabetes mellitus. *Am J Ophthalmol* 1982;94:473-88.
- [210] Laqua H, Machemer R. Clinical-pathological correlation in massive periretinal proliferation. *Am J Ophthalmol* 1975;80:913-29.
- [211] Kampik A, Kenyon KR, Michels RG, et al. Epiretinal and vitreous membranes; comparative study of 56 cases. *Arch Ophthalmol* 1981;99:1445-54.
- [212] Bellhorn MB, Friedman AH, Wise GN, et al. Ultrastructure and clinicopathologic correlation of idiopathic preretinal macular fibrosis. *Am J Ophthalmol* 1975;79:366-73.
- [213] Cherfan GM, Smiddy WE, Michels RG, et al. Clinicopathologic correlation of pigmented epiretinal membranes. *Am J Ophthalmol* 1988;106:536-45.
- [214] Hiscott PS, Grierson I, McLeod D. Retinal pigment epithelial cells in epiretinal membranes; an immunohistochemical study. *Br J Ophthalmol* 1984;68:708-15.
- [215] Hiscott PS, Grierson I, Trombetta CJ, et al. Retinal and epiretinal glia - an immunohistochemical study. *Br J Ophthalmol* 1984;68:698-707.
- [216] Jiang DY, Hiscott PS, Grierson I, et al. Growth and contractility of cells from fibrocellular epiretinal membranes in primary tissue culture. *Br J Ophthalmol* 1988;72:116-26.
- [217] Kenyon KR, Michels RG. Ultrastructure of epiretinal membrane removed by pars plana vitreoretinal surgery. *Am J Ophthalmol* 1977;83:815-23.
- [218] Laqua H, Machemer R. Glial cell proliferation in retinal detachment (massive periretinal proliferation). *Am J Ophthalmol* 1975;80:602-18.
- [219] Machemer R. Pathogenesis and classification of massive periretinal proliferation. *Br J Ophthalmol* 1978;62:737-47.
- [220] Maguire AM, Smiddy WE, Nanda SK, et al. Clinicopathologic correlation of recurrent epiretinal membranes after previous surgical removal. *Retina* 1990;10:213-22.
- [221] Maumenee AE. Further advances in the study of the macula. *Arch Ophthalmol* 1967;78:151-65.
- [222] Mittleman D, Green WR, Michels RG, et al. Clinicopathologic correlation of an eye after surgical removal of an epiretinal membrane. *Retina* 1989;9:143-7.
- [223] Morino I, Hiscott P, McKechnie N, et al. Variation in epiretinal membrane components with clinical duration of the proliferative



- tissue. *Br J Ophthalmol* 1990;74:393-9.
- [224] Newsome DA, Rodrigues MM, Machemer R. Human massive preretinal proliferation; in vitro characteristics of cellular components. *Arch Ophthalmol* 1981;99:873-80.
- [225] Rentsch FJ. Preretinal proliferation of glial cells after mechanical injury of the rabbit retina. *Albrecht von Graefes Arch Klin Exp Ophthalmol* 1973;188:79-90.
- [226] Rentsch FJ. The ultrastructure of preretinal macular fibrosis. *Albrecht von Graefes Arch Clin Exp Ophthalmol* 1977;203:321-37.
- [227] Singh AK, Glaser BM, Lemor M, et al. Gravity-dependent distribution of retinal pigment epithelial cells dispersed into the vitreous cavity. *Retina* 1986;6:77-80.
- [228] Smiddy WE, Maguire AM, Green WR, et al. Idiopathic epiretinal membranes; ultrastructural characteristics and clinicopathologic correlation. *Ophthalmology* 1989;96:811-21.
- [229] Snead MP, Snead DR, James S, et al. Clinicopathological changes at the vitreoretinal junction: posterior vitreous detachment. *Eye (Lond)* 2008;22:1257-62.
- [230] Hui Y-N, Goodnight R, Zhang X-J, et al. Glial epiretinal membranes and contraction; immunohistochemical and morphological studies. *Arch Ophthalmol* 1988;106:1280-5.
- [231] Wallow IHL, Greaser ML, Stevens TS. Actin filaments in diabetic fibrovascular preretinal membrane. *Arch Ophthalmol* 1981;99:2175-81.
- [232] Wallow IHL, Stevens TS, Greaser ML, et al. Actin filaments in contracting preretinal membranes. *Arch Ophthalmol* 1984;102:1370-5.
- [233] Algvere P, Kock E. Experimental epiretinal membranes induced by intravitreal carbon particles. *Am J Ophthalmol* 1983;96:345-53.
- [234] Lean JS. Origin of simple glial epiretinal membranes in an animal model. *Graefes Arch Clin Exp Ophthalmol* 1987;225:421-5.
- [235] Miller B, Miller H, Ryan SJ. Experimental epiretinal proliferation induced by intravitreal red blood cells. *Am J Ophthalmol* 1986;102:188-95.
- [236] Radke ND, Tano Y, Chandler D, et al. Simulation of massive preretinal proliferation by autotransplantation of retinal pigment epithelial cells in rabbits. *Am J Ophthalmol* 1981;91:76-87.
- [237] Stern WH, Fisher SK, Anderson DH, et al. Epiretinal membrane formation after vitrectomy. *Am J Ophthalmol* 1982;93:757-72.
- [238] Hirokawa H, Jalkh AE, Takahashi M, et al. Role of the vitreous in idiopathic preretinal macular fibrosis. *Am J Ophthalmol* 1986;101:166-9.
- [239] Sebag J. Imaging vitreous. *Eye (Lond)* 2002;16:429-39.
- [240] Sebag J. Anomalous posterior vitreous detachment: a unifying concept in vitreo-retinal disease. *Graefes Arch Clin Exp Ophthalmol* 2004;42:690-8.
- [241] Sebag J. Vitreoschisis. *Graefes Arch Clin Exp Ophthalmol* 2008;246:329-32.
- [242] Wiznia RA. Posterior vitreous detachment and idiopathic preretinal macular gliosis. *Am J Ophthalmol* 1986;102:196-8.
- [243] Glaser BM, Cardin A, Biscoe B. Proliferative vitreoretinopathy; the mechanism of development of vitreoretinal traction. *Ophthalmology* 1987;94:327-32.
- [244] Sivalingam A, Eagle Jr RC, Duker JS, et al. Visual prognosis correlated with the presence of internal-limiting membrane in histopathologic specimens obtained from epiretinal membrane surgery. *Ophthalmology* 1990;97:1549-52.
- [245] Kishi S, Shimizu K. Oval defect in detached posterior hyaloid membrane in idiopathic preretinal macular fibrosis. *Am J Ophthalmol* 1994;118:451-6.
- [246] Thomas EL, Michels RG, Rice TA, et al. Idiopathic progressive unilateral vitreous fibrosis and secondary traction retinal detachment. *Retina* 1982;2:134-44.
- [247] Akiba J, Yoshida A, Trempe CL. Prognostic factors in idiopathic preretinal macular fibrosis. *Graefes Arch Clin Exp Ophthalmol* 1991;229:101-4.
- [248] Gass JDM. Photocoagulation of macular lesions. *Trans Am Acad Ophthalmol Otolaryngol* 1971;75:580-2.
- [249] Greven CM, Slusher MM, Weaver RG. Epiretinal membrane release and posterior vitreous detachment. *Ophthalmology* 1988;95:902-5.
- [250] Schwartz PL, Trubowitsch G, Fastenberg DM, et al. Macular pucker and retinal angioma. *Ophthalmic Surg* 1987;18:677-9.
- [251] de Bustros S, Rice TA, Michels RG, et al. Vitrectomy for macular pucker; use after treatment of retinal tears or retinal detachment. *Arch Ophthalmol* 1988;106:758-60.
- [252] de Bustros S, Thompson JT, Michels RG, et al. Vitrectomy for idiopathic epiretinal membranes causing macular pucker. *Br J Ophthalmol* 1988;72:692-5.
- [253] Margherio RR, Cox Jr MS, Trese MT, et al. Removal of epimacular membranes. *Ophthalmology* 1985;92:1075-83.
- [254] McDonald HR, Verre WP, Aaberg TM. Surgical management of idiopathic epiretinal membranes. *Ophthalmology* 1986;93:978-83.
- [255] Michels RG. Vitreous surgery for macular pucker. *Am J Ophthalmol* 1981;92:628-39.
- [256] Michels RG. Vitrectomy for macular pucker. *Ophthalmology* 1984;91:1384-8.
- [257] Michels RG, Gilbert HD. Surgical management of macular pucker after retinal reattachment surgery. *Am J Ophthalmol* 1979;88:925-9.
- [258] Pesin SR, Olk RJ, Grand MG, et al. Vitrectomy for premacular fibroplasia; prognostic factors, long-term follow-up, and time course of visual improvement. *Ophthalmology* 1991;98:1109-14.
- [259] Poliner LS, Olk RJ, Grand MG, et al. Surgical management of premacular fibroplasia. *Arch Ophthalmol* 1988;106:761-4.
- [260] Rice TA, de Bustros S, Michels RG, et al. Prognostic factors in vitrectomy for epiretinal membranes of the macula. *Ophthalmology* 1986;93:602-10.
- [261] Shea M. The surgical management of macular pucker in rhegmatogenous retinal detachment. *Ophthalmology* 1980;87:70-4.
- [262] Stallman JB, Meyers SM. Spontaneous disappearance of white retinal changes after dissection of epiretinal macular membranes. *Retina* 1988;8:165-8.
- [263] Thompson JT. Epiretinal membrane removal in eyes with good visual acuities. *Retina* 2005;25:875-82.
- [264] Meyer CH, Rodrigues EB, Kroll P. Trypan blue has a high affinity to cellular structures such as epiretinal membrane. *Am J Ophthalmol* 2004;137:207-8.
- [265] Perrier M, Sebag M. Epiretinal membrane surgery assisted by trypan blue. *Am J Ophthalmol* 2003;135:909-11.
- [266] Benhamou N, Massin P, Spolaore R, et al. Surgical management of epiretinal membrane in young patients. *Am J Ophthalmol* 2002;133:358-64.
- [267] Potter MJ, Lee AS, Moshaver A. Improvement in macular function after epiretinal membrane removal in a patient with Stargardt disease. *Retina* 2000;20:560-1.
- [268] Meredith TA. Epiretinal membrane delamination with a diamond knife. *Arch Ophthalmol* 1997;115:1598-9.
- [269] Yuson RM, Nigam N, Mojana F, et al. The use of intraoperative indocyanine green dye to assist in epiretinal membrane removal: a novel application of indocyanine green surgical use. *Retina* 2009;29:1367-70.
- [270] Konstantinidis L, Berguiga M, Beknazari E, et al. Anatomic and functional outcome after 23-gauge vitrectomy, peeling,

- and intravitreal triamcinolone for idiopathic macular epiretinal membrane. *Retina* 2009;29:1119–27.
- [271] Fang X, Zheng X, Weng Y, et al. Anatomical and visual outcome after vitrectomy with triamcinolone acetonide-assisted epiretinal membrane removal in highly myopic eyes with retinal detachment due to macular hole. *Eye (Lond)* 2009;23:248–54.
- [272] Habib MS, Steel DH, Ling R, et al. Vitrectomy with membrane peeling for vasocentric idiopathic epiretinal membranes. *Retina* 2008;28:981–6.
- [273] Cherfan GM, Michels RG, de Bustros S, et al. Nuclear sclerotic cataract after vitrectomy for idiopathic epiretinal membranes causing macular pucker. *Am J Ophthalmol* 1991;111:434–8.
- [274] Kozak I, Freeman WR. Nonprogressive extrafoveal retinal hole after foveal epiretinal membrane removal. *Am J Ophthalmol* 2006;141:769–71.
- [275] Sibony P, Fourman S, Honkanen R, et al. Asymptomatic peripapillary subretinal hemorrhage: a study of 10 cases. *J Neuroophthalmol* 2008;28:114–9.
- [276] Aras C, Arici C, Akova N. Peripapillary serous retinal detachment preceding complete posterior vitreous detachment. *Graefes Arch Clin Exp Ophthalmol* 2008;246:927–9.
- [277] Kokame GT, Yamamoto I, Kishi S, et al. Intrapapillary hemorrhage with adjacent peripapillary subretinal hemorrhage. *Ophthalmology* 2004;111:926–30.
- [278] Wisotsky BJ, Magat-Gordon CB, Puklin JE. Vitreopapillary traction as a cause of elevated optic nerve head. *Am J Ophthalmol* 1998;126:137–9.
- [279] Kroll P, Wiegand W, Schmidt J. Vitreopapillary traction in proliferative diabetic vitreoretinopathy [see comments]. *Br J Ophthalmol* 1999;83:261–4.
- [280] Chisholm IA, McClure E, Foulds WS. Functional recovery of the retina after retinal detachment. *Trans Ophthalmol Soc UK* 1975;95:167–72.
- [281] Davidorf FH, Havener WH, Lang JR. Macular vision following retinal detachment surgery. *Ophthalmic Surg* 1975;6:74–81.
- [282] Davies EWG, Gundry MF. Failure of visual recovery following retinal surgery. *Mod Probl Ophthalmol* 1974;12:58–63.
- [283] Friberg TR, Eller AW. Prediction of visual recovery after scleral buckling of macula-off retinal detachments. *Am J Ophthalmol* 1992;114:715–22.
- [284] Grupposo SS. Visual acuity following surgery for retinal detachment. *Arch Ophthalmol* 1975;93:327–30.
- [285] Gundry MF, Davies EWG. Recovery of visual acuity after retinal detachment surgery. *Am J Ophthalmol* 1974;77:310–4.
- [286] Isernhagen RD, Wilkinson CP. Visual acuity after the repair of pseudophakic retinal detachments involving the macula. *Retina* 1989;9:15–21.
- [287] McPherson AR, O'Malley RE, Butner RW, et al. Visual acuity after surgery for retinal detachment with macular involvement. *Ann Ophthalmol* 1982;14:639–45.
- [288] Tani P, Robertson DM, Langworthy A. Prognosis for central vision and anatomic reattachment in rhegmatogenous retinal detachment with macula detached. *Am J Ophthalmol* 1981;92:611–20.
- [289] Wilkinson CP. Visual results following scleral buckling for retinal detachments sparing the macula. *Retina* 1981;1:113–6.
- [290] Jarrett WH, Brockhurst RJ. Unexplained blindness and optic atrophy following retinal detachment surgery. *Arch Ophthalmol* 1965;73:782–91.
- [291] Enoch JM, Van Loo Jr JA, Okun E. Realignment of photoreceptors disturbed in orientation secondary to retinal detachment. *Invest Ophthalmol* 1973;12:849–53.
- [292] Morita H, Ideta H, Ito K. Causative factors of retinal detachment in macular holes. *Retina* 1991;11:281–4.
- [293] Stirpe M, Michels RG. Retinal detachment in highly myopic eyes due to macular holes and epiretinal traction. *Retina* 1990;10:113–4.
- [294] Bonnet M, Semiglia R. Evolution spontanée du décollement de la rétine du pôle postérieur du myope fort. *J Fr Ophtalmol* 1991;14:618–23.
- [295] Brown GC. Macular hole following rhegmatogenous retinal detachment repair. *Arch Ophthalmol* 1988;106:765–6.
- [296] Riordan-Eva P, Chignell AH. Full thickness macular breaks in rhegmatogenous retinal detachment with peripheral retinal breaks. *Br J Ophthalmol* 1992;76:346–8.
- [297] Greco GM, Bonavolonta G. Treatment of retinal detachments due to macular holes. *Retina* 1987;7:177–9.
- [298] Laqua H. Die Behandlung der Ablatio mit Maculaforamen nach der Methode von Gonvers und Machemer. *Klin Monatsbl Augenheilkd* 1985;186:13–17.
- [299] Rashed O, Sheta S. Evaluation of the functional results after different techniques for treatment of retinal detachments due to macular holes. *Graefes Arch Clin Exp Ophthalmol* 1989;27:508–12.
- [300] Aaberg TM, Machemer R. Correlation of naturally occurring detachments with long-term retinal detachment in the owl monkey. *Am J Ophthalmol* 1970;69:640–50.
- [301] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 716–17.
- [302] Lopez PF, Aaberg TM, Lambert HM, et al. Choroidal neovascularization occurring within a demarcation line. *Am J Ophthalmol* 1992;114:101–2.
- [303] Matsumura M, Yamakawa R, Yoshimura N, et al. Subretinal strands; tissue culture and histological study. *Graefes Arch Clin Exp Ophthalmol* 1987;225:341–5.
- [304] Machemer R. Surgical approaches to subretinal strands. *Am J Ophthalmol* 1980;90:81–5.
- [305] Sternberg Jr P, Machemer R. Subretinal proliferation. *Am J Ophthalmol* 1984;98:456–62.
- [306] Wallyn RH, Hilton GF. Subretinal fibrosis in retinal detachment. *Arch Ophthalmol* 1979;97:2128–9.
- [307] Wilkes SR, Mansour AM, Green WR. Proliferative vitreoretinopathy; histopathology of retroretinal membranes. *Retina* 1987;7:94–101.
- [308] Abraham RK, Shea M. Significance of pigment dispersion following cryoretinopexy: scotomata and atrophy. *Mod Probl Ophthalmol* 1969;8:455–61.
- [309] Hilton GF. Subretinal pigment migration; effects of cryosurgical retinal reattachment. *Arch Ophthalmol* 1974;91:445–50.
- [310] Shea M. Complications of cryotherapy in retinal detachment surgery. *Can J Ophthalmol* 1968;3:109–15.
- [311] Sudarsky RD, Yannuzzi LA. Cryomarcation line and pigment migration after retinal cryosurgery. *Arch Ophthalmol* 1970;83:395–401.
- [312] Theodossiadis GP, Kokolakis SN. Macular pigment deposits in rhegmatogenous retinal detachment. *Br J Ophthalmol* 1979;63:498–506.
- [313] Avins LR, Hilton GF. Lesions simulating serous detachment of the pigment epithelium; occurrence after retinal detachment surgery. *Arch Ophthalmol* 1980;98:1427–9.
- [314] Lobes Jr LA, Grand MG. Subretinal lesions following scleral buckling procedure. *Arch Ophthalmol* 1980;98:680–3.
- [315] Woldoff HS, Dooley Jr WJ. Multifocal choroiditis after retinal detachment surgery. *Ann Ophthalmol* 1979;11:1182–4.
- [316] Machemer R. Experimental retinal detachment in the owl monkey. II. Histology of retina and pigment epithelium. *Am J Ophthalmol* 1968;66:396–410.
- [317] Bonnet M. Peripheral neovascularization complicating

- rhegmatogenous retinal detachments of long duration. *Graefes Arch Clin Exp Ophthalmol* 1987;225:59-62.
- [318] Felder KS, Brockhurst RJ. Retinal neovascularization complicating rhegmatogenous retinal detachment of long duration. *Am J Ophthalmol* 1982;93:773-6.
- [319] Goldbaum MH, Weidenthal DT, Krug S, et al. Subretinal neovascularization as a complication of drainage of subretinal fluid. *Retina* 1983;3:114-7.
- [320] Gottlieb F, Fammartino JJ, Stratford TP, et al. Retinal angiomatosis mass; a complication of retinal detachment surgery. *Retina* 1984;4:152-7.
- [321] Habib MS, Byrne S, McCarthy JH, et al. Refractile superficial retinal crystals and chronic retinal detachment: case report. *BMC Ophthalmol* 2006;6:3.
- [322] Ahmed I, McDonald HR, Schatz H, et al. Crystalline retinopathy associated with chronic retinal detachment. *Arch Ophthalmol* 1998;116:1449-53.
- [323] Cogan DG, Kuwabara T, Silbert J, et al. Calcium oxalate and calcium phosphate crystals in detached retinas. *AMA Arch Ophthalmol* 1958;60:366-71.
- [324] Byer NE. Clinical study of senile retinoschisis. *Arch Ophthalmol* 1968;79:36-44.
- [325] Byer NE. The natural history of senile retinoschisis. *Mod Probl Ophthalmol* 1977;18:304-11.
- [326] Hauch TL, Straatsma BR, Andersen E, et al. Macular function in typical and reticular retinoschisis. *Retina* 1981;1:293-5.
- [327] Straatsma BR, Foos RY. Typical and reticular degenerative retinoschisis. *Am J Ophthalmol* 1973;75:551-75.
- [328] Sulonen JM, Wells CG, Barricks ME, et al. Degenerative retinoschisis with giant outer layer breaks and retinal detachment. *Am J Ophthalmol* 1985;99:114-21.
- [329] Byer NE. Long-term natural history study of senile retinoschisis with implications for management. *Ophthalmology* 1986;93:1127-36.
- [330] Ambler JS, Gass JDM, Gutman FA. Symptomatic retinoschisis-detachment involving the macula. *Am J Ophthalmol* 1991;112:8-14.
- [331] Sneed SR, Blodi CF, Folk JC, et al. Pars plana vitrectomy in the management of retinal detachments associated with degenerative retinoschisis. *Ophthalmology* 1990;97:470-4.
- [332] Ambler JS, Meyers SM, Zegarra H, et al. The management of retinal detachment complicating degenerative retinoschisis. *Am J Ophthalmol* 1989;107:171-6.
- [333] Zimmerman LE, Spencer WH. The pathologic anatomy of retinoschisis with a report of two cases diagnosed clinically as malignant melanoma. *Arch Ophthalmol* 1960;63:10-19.
- [334] Yanoff M, Kertesz Rahn E, Zimmerman LE. Histopathology of juvenile retinoschisis. *Arch Ophthalmol* 1968;79:49-53.
- [335] Pandita A, Guest SJ. Sectorial retinoschisis associated with field defect in a patient with tilted discs. *Clin Experiment Ophthalmol* 2010;38:317-20.
- [336] Dhrami-Gavazi E, Schiff WM, Barile GR. Nanophthalmos and acquired retinoschisis. *Am J Ophthalmol* 2009;147:108-10, e1.
- [337] Hotta K, Hirakata A, Hida T. Retinoschisis associated with disc coloboma. *Br J Ophthalmol* 1999;83:124.
- [338] Humayun MS, Fujii GY, Au Eong KG, et al. Bilateral retinoschisis, retinal neovascularization, and severe myopia in a young female. *Ophthalmic Surg Lasers* 2000;31:442-3.
- [339] Watts P, Obi E. Retinal folds and retinoschisis in accidental and non-accidental head injury. *Eye* 2008;22:1514-6.
- [340] Ando E, Ando Y, Maruoka S, et al. Ocular microangiopathy in familial amyloidotic polyneuropathy, type I. *Graefes Arch Clin Exp Ophthalmol* 1992;230:1-5.
- [341] Andrade C. A peculiar form of peripheral neuropathy; familial atypical generalized amyloidosis with special involvement of the peripheral nerves. *Brain* 1952;75:408-27.
- [342] Bene C, Kranias G. Ocular amyloidosis: Clinical points learned from one case. *Ann Ophthalmol* 1990;22:101-2.
- [343] Biswas J, Badrinath SS, Rao NA. Primary nonfamilial amyloidosis of the vitreous; a light microscopic and ultrastructural study. *Retina* 1992;12:251-3.
- [344] Crawford JB. Cotton wool exudates in systemic amyloidosis. *Arch Ophthalmol* 1967;78:214-6.
- [345] Goren H, Steinberg MC, Farboody GH. Familial oculoleptomeningeal amyloidosis. *Brain* 1980;103:473-95.
- [346] Hamburg A. Unusual cause of vitreous opacities; primary familial amyloidosis. *Ophthalmologica* 1971;162:173-7.
- [347] Kasner D, Miller GR, Taylor WH, et al. Surgical treatment of amyloidosis of the vitreous. *Trans Am Acad Ophthalmol Otolaryngol* 1968;72:410-8.
- [348] Monteiro JG, Martins AFF, Figueira A, et al. Ocular changes in familial amyloidotic polyneuropathy with dense vitreous opacities. *Eye* 1991;5:99-105.
- [349] Okayama M, Goto I, Ogata J, et al. Primary amyloidosis with familial vitreous opacities; an unusual case and family. *Arch Intern Med* 1978;138:105-11.
- [350] Rukavina JG, Block WD, Jackson CE, et al. Primary systemic amyloidosis: a review and an experimental, genetic, and clinical study of 29 cases with particular emphasis on the familial form. *Medicine* 1956;35:239-334.
- [351] Sandgren O, Holmgren G, Lundgren E. Vitreous amyloidosis associated with homozygosity for the transthyretin methionine-30 gene. *Arch Ophthalmol* 1990;108:1584-6.
- [352] Uitti RJ, Donat JR, Rozdilsky B, et al. Familial oculoleptomeningeal amyloidosis; report of a new family with unusual features. *Arch Neurol* 1988;45:1118-22.
- [353] Wong VG, McFarlin DE. Primary familial amyloidosis. *Arch Ophthalmol* 1967;78:208-13.
- [354] O'Hearn TM, Fawzi A, He S, et al. Early onset vitreous amyloidosis in familial amyloidotic polyneuropathy with a transthyretin Glu54Gly mutation is associated with elevated vitreous VEGF. *Br J Ophthalmol* 2007;91:1607-9.
- [355] Ts'o MOM, Bettman Jr JW. Occlusion of choriocapillaris in primary nonfamilial amyloidosis. *Arch Ophthalmol* 1971;86:281-6.
- [356] Sandgren O, Holmgren G, Lundgren E, et al. Restriction fragment length polymorphism analysis of mutated transthyretin in vitreous amyloidosis. *Arch Ophthalmol* 1988;106:790-2.
- [357] Schwartz MF, Green WR, Michels RG, et al. An unusual case of ocular involvement in primary systemic nonfamilial amyloidosis. *Ophthalmology* 1982;89:394-401.
- [358] Skinner M, Harding J, Skare I, et al. A new transthyretin mutation associated with amyloidotic vitreous opacities; asparagine for isoleucine at position 84. *Ophthalmology* 1992;99:503-8.
- [359] Baum MD, Weiss HS, Sanders RJ. Panretinal photocoagulation in the treatment of vitreoretinal amyloidosis. *Arch Ophthalmol* 1998;116:1534.
- [360] Savage DJ, Mango CA, Streeten BW. Amyloidosis of the vitreous. Fluorescein angiographic findings and association with neovascularization. *Arch Ophthalmol* 1982;100:1776-9.
- [361] Ando E, Ando Y, Haraoka K. Ocular amyloid involvement after liver transplantation for polyneuropathy. *Ann Intern Med* 2001;135:931-2.
- [362] Munar-Ques M, Salva-Ladaria L, Mulet-Perera P, et al. Vitreous amyloidosis after liver transplantation in patients with familial amyloid polyneuropathy: ocular synthesis of mutant transthyretin. *Amyloid* 2000;7:266-9.
- [363] Bek T. Ocular changes in heredo-oto-ophthalmo-encephalopathy.

- Br J Ophthalmol 2000;84:1298–302.
- [364] Pece A, Yannuzzi L, Sannace C, et al. Chorioretinal involvement in primary systemic nonfamilial amyloidosis. *Am J Ophthalmol* 2000;130:250–3.
- [365] Ferry AP, Lieberman TW. Bilateral amyloidosis of the vitreous body; report of a case without systemic or familial involvement. *Arch Ophthalmol* 1976;94:982–91.
- [366] Irvine AR, Char DH. Recurrent amyloid involvement in the vitreous body after vitrectomy. *Am J Ophthalmol* 1976;82:705–8.
- [367] Awan KJ. Biomicroscopy and argon laser photocoagulation of free-floating vitreous cysts. *Ophthalmology* 1985;92:1710–1.
- [368] Flynn WJ, Carlson DW. Pigmented vitreous cyst. *Arch Ophthalmol* 1994;112:1113.
- [369] Lusky M, Weinberger D, Kremer I. Vitreous cyst combined with bilateral juvenile retinoschisis. *J Pediatr Ophthalmol Strabismus* 1988;25:75–6.
- [370] Orellana J, O'Malley RE, McPherson AR, et al. Pigmented free-floating vitreous cysts in two young adults; electron microscopic observations. *Ophthalmology* 1985;92:297–302.
- [371] Ruby AJ, Jampol LM, Nd YAG. treatment of a posterior vitreous cyst. *Am J Ophthalmol* 1990;110:428–9.
- [372] Steinmetz RL, Straatsma BR, Rubin ML. Posterior vitreous cyst. *Am J Ophthalmol* 1990;109:295–7.
- [373] Taranath DA, Flaherty MP. Free-floating unilateral pigmented vitreous cyst in a child. *J Pediatr Ophthalmol Strabismus* 2007;44:243–4.
- [374] Narendran N, Doyle E, Laidlaw A. Anterior and posterior vitreous cysts. *Clin Experiment Ophthalmol* 2004;32:229–30.
- [375] Jones WL. Free-floating vitreous cyst. *Optom Vis Sci* 1998;75:171–3.
- [376] Nork TM, Millecchia LL. Treatment and histopathology of a congenital vitreous cyst. *Ophthalmology* 1998;105:825–30.
- [377] Bergren RL, Brown GC, Duker JS. Prevalence and association of asteroid hyalosis with systemic disease. *Am J Ophthalmol* 1991;111:289–93.
- [378] Feist RM, Morris RE, Witherspoon CD, et al. Vitrectomy in asteroid hyalosis. *Retina* 1990;10:173–7.
- [379] Hampton GR, Nelsen PT, Hay PB. Viewing through the asteroids. *Ophthalmology* 1981;88:669–72.
- [380] Luxenberg M, Sime D. Relationship of asteroid hyalosis to diabetes mellitus and plasma lipid levels. *Am J Ophthalmol* 1969;67:406–13.
- [381] Renaldo DP. Pars plana vitrectomy for asteroid hyalosis. *Retina* 1981;1:252–4.
- [382] Rodman HI, Johnson FB, Zimmerman LE. New histopathological and histochemical observations concerning asteroid hyalitis. *Arch Ophthalmol* 1961;66:552–63.
- [383] Streeten BW. Vitreous asteroid bodies; ultrastructural characteristics and composition. *Arch Ophthalmol* 1982;100:969–75.
- [384] Topilow HW, Kenyon KR, Takahashi M, et al. Asteroid hyalosis; biomicroscopy, ultrastructure, and composition. *Arch Ophthalmol* 1982;100:964–8.
- [385] Winkler J, Lunsdorf H. Ultrastructure and composition of asteroid bodies. *Invest Ophthalmol Vis Sci* 2001;42:902–7.
- [386] Kador PF, Wyman M. Asteroid hyalosis: pathogenesis and prospects for prevention. *Eye (Lond)* 2008;22:1278–85.
- [387] Mochizuki Y, Hata Y, Kita T, et al. Anatomical findings of vitreoretinal interface in eyes with asteroid hyalosis. *Graefes Arch Clin Exp Ophthalmol* 2009;247:1173–7.

## 第 8 章

- [1] Berlin R. Zur sogenannten Commotio retinae. *Klin Monatsbl Augenheilkd* 1873;11:42–78.
- [2] Blight R, Hart JCD. Structural changes in the outer retinal layers following blunt mechanical non-perforating trauma to the globe: an experimental study. *Br J Ophthalmol* 1977;61:573–87.
- [3] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 314.
- [4] Sipperley JO, Quigley HA, Gass JDM. Traumatic retinopathy in primates; the explanation of commotio retinae. *Arch Ophthalmol* 1978;96:2267–73.
- [5] Williams DF, Mieler WF, Williams GA. Posterior segment manifestations of ocular trauma. *Retina* 1990;10:S35–44.
- [6] Bastek JV, Foos RY, Heckenlively J. Traumatic pigmentary retinopathy. *Am J Ophthalmol* 1981;92:621–4.
- [7] Cogan DG. Pseudoretinitis pigmentosa; report of two traumatic cases of recent origin. *Arch Ophthalmol* 1969;81:45–53.
- [8] Kohno T, Ishibashi T, Inomata H, et al. Experimental macular edema of commotio retinae: preliminary report. *Jpn J Ophthalmol* 1983;27:149–56.
- [9] Hart JCD, Frank HJ. Retinal opacification after blunt non-perforating concussional injuries to the globe; a clinical and retinal fluorescein angiographic study. *Trans Ophthalmol Soc UK* 1975;95:94–100.
- [10] Beckingsale AB, Rosenthal AR. Early fundus fluorescein angiographic findings and sequelae in traumatic retinopathy: case report. *Br J Ophthalmol* 1983;67:119–23.
- [11] Pulido JS, Blair NP. The blood–retinal barrier in Berlin's edema. *Retina* 1987;7:233–6.
- [12] Seider M, Lujan BJ, Gregori G, et al. Ultra-high resolution spectral domain optical coherence tomography of traumatic maculopathy. *Ophthalmic Surg Lasers Imaging* 2009;40:516–21.
- [13] Sony P, Venkatesh P, Gadaginamath S, et al. Optical coherence tomography findings in commotio retinae. *Clin Experiment Ophthalmol* 2006;34:621–3.
- [14] Lai TY, Yip WW, Wong VW, et al. Multifocal electroretinogram and optical coherence tomography of commotio retinae and traumatic macular hole. *Eye* 2005;19:219–21.
- [15] Carpineto P, Ciancaglini M, Aharrh-Gnama A, et al. Optical coherence tomography and fundus microperimetry imaging of spontaneous closure of traumatic macular hole: a case report. *Eur J Ophthalmol* 2005;15:165–9.
- [16] Mansour AM, Green WR, Hogge C. Histopathology of commotio retinae. *Retina* 1992;12:24–8.
- [17] Bunt-Milam AH, Black RA, Bensinger RE. Breakdown of the outer blood–retinal barrier in experimental commotio retinae. *Exp Eye Res* 1986;43:397–412.
- [18] Levin LA, Seddon JM, Topping T. Retinal pigment epithelial tears associated with trauma. *Am J Ophthalmol* 1991;112:396–400.
- [19] Beyrer CR. Traumatic serous detachments of the retinal pigment epithelium. *Ann Ophthalmol* 1978;10:51–4.
- [20] Collier M. La chorio-retinopathie post-traumatique de Hutchinson-Siegrist. *Ann Oculist* 1973;206:193–220.



- [21] Friberg TR. Traumatic retinal pigment epithelial edema. *Am J Ophthalmol* 1979;88:18–21.
- [22] Gass JDM. Stereoscopic atlas of macular diseases; a fundoscopic and angiographic presentation. St. Louis: CV Mosby; 1970. p. 94.
- [23] Gitter KA, Slusher M, Justice Jr J. Traumatic hemorrhagic detachment of retinal pigment epithelium. *Arch Ophthalmol* 1968;79:729–32.
- [24] Gross JG, Freeman WR. Post-traumatic yellow maculopathy. *Retina* 1990;10:37–41.
- [25] Hart JCD, Natsikos VE, Raistrick ER, et al. Indirect choroidal tears at the posterior pole: a fluorescein angiographic and perimetric study. *Br J Ophthalmol* 1980;64:59–67.
- [26] Lewis RA, Donaldson DD. Traumatic retinal hemorrhage. *Arch Ophthalmol* 1973;90:502–3.
- [27] Rimmer S, Shuler JD. Severe ocular trauma from a driver's-side air bag. *Arch Ophthalmol* 1991;109:774.
- [28] von Graefe A. Zwei Fälle von Ruptur der Chorioidea. *Albrecht von Graefes Arch Ophthalmol* 1854;1:402–3.
- [29] Levin LA, Seddon JM, Topping T. Retinal pigment epithelial tears associated with trauma. *Am J Ophthalmol* 1991;112:396–400.
- [30] Sipperley JO, Quigley HA, Gass JDM. Traumatic retinopathy in primates; the explanation of commotio retinae. *Arch Ophthalmol* 1978;96:2267–73.
- [31] Hart CD, Raistrick R. Indirect choroidal tears and late onset serosanguinous maculopathies. *Graefes Arch Clin Exp Ophthalmol* 1982;218:206–10.
- [32] Levin DB, Bell DK. Traumatic retinal hemorrhages with angioid streaks. *Arch Ophthalmol* 1977;95:1072–3.
- [33] Aguilar JP, Green WR. Choroidal rupture; a histopathologic study of 47 cases. *Retina* 1984;4:269–75.
- [34] Maberley AL, Carvounis EP. The visual field in indirect traumatic rupture of the choroid. *Can J Ophthalmol* 1977;12:147–52.
- [35] Fuller B, Gitter KA. Traumatic choroidal rupture with late serous detachment of macula; report of successful argon laser treatment. *Arch Ophthalmol* 1973;89:354–5.
- [36] Gass JDM. Pathogenesis of disciform detachment of the neuroepithelium. VI. Disciform detachment secondary to heredodegenerative, neoplastic and traumatic lesions of the choroid. *Am J Ophthalmol* 1967;63:689–711.
- [37] Hilton GF. Late serosanguineous detachment of the macula after traumatic choroidal rupture. *Am J Ophthalmol* 1975;79:997–1000.
- [38] Pearlstone AD. Delayed loss of central vision following multiple posterior segment trauma. *Ann Ophthalmol* 1980;12:409–11.
- [39] Wood CM, Richardson J. Indirect choroidal ruptures: aetiological factors, patterns of ocular damage, and final visual outcome. *Br J Ophthalmol* 1990;74:208–11.
- [40] Zografos L, Chamero J. Evolution au long cours des ruptures indirectes traumatiques de la choroïde. *J Fr Ophtalmol* 1990;13:269–75.
- [41] Weidenthal DT. Choroidal neovascularization (CNV) arising from drainage site after scleral buckling surgery. In: Fine SL, Owens SL, editors. *Management of retinal vascular and macular disorders*. Baltimore: Williams & Wilkins; 1983. p. 199–207.
- [42] Anshu A, Chee SP. Diffuse unilateral subacute neuroretinitis. *Int Ophthalmol* 2008;28:127–9.
- [43] Aiello LP, Arrigg PG, Shah ST, et al. Solar retinopathy associated with hypoglycemic insulin reaction. *Arch Ophthalmol* 1994;112:982–3.
- [44] Goldzieher W. Beiträg zur Pathologie der orbitalen Schussverletzungen. *Z Augenheilkd* 1901;6:277–85.
- [45] Martin DF, Awh CC, McCuen II BW, et al. Treatment and pathogenesis of traumatic chorioretinal rupture (scleropetaria). *Am J Ophthalmol* 1994;117:190–200.
- [46] Perry HD, Rahn EK. Chorioretinitis scleropetaria; choroidal and retinal concussion injury from a bullet. *Arch Ophthalmol* 1977;95:328–9.
- [47] Grosso A, Panico C. Surgical management of scleropetaria associated with macular hole in a young patient: long term results. *Eye* 2009;23:1875–6.
- [48] Dubovy SR, Guyton DL, Green WR. Clinicopathologic correlation of chorioretinitis scleropetaria. *Retina* 1997;17:510–20.
- [49] Ahmadabadi MN, Karkhaneh R, Roohipoor R, et al. Clinical presentation and outcome of chorioretinitis scleropetaria: a case series study. *Injury* 2010;41:82–5.
- [50] Martin DF, Awh CC, McCuen II BW, et al. Treatment and pathogenesis of traumatic chorioretinal rupture (scleropetaria). *Am J Ophthalmol* 1994;117:190–200.
- [51] Daily L. Macular and vitreal disturbances produced by traumatic vitreous rebound. *South Med J* 1970;63:1197–8.
- [52] Grey RHB. Foveo-macular retinitis, solar retinopathy, and trauma. *Br J Ophthalmol* 1978;62:543–6.
- [53] Kelly JS, Hoover RE, George T. Whiplash maculopathy. *Arch Ophthalmol* 1978;96:834–5.
- [54] Burke JP, Orton HP, West J, et al. Whiplash and its effect on the visual system. *Graefes Arch Clin Exp Ophthalmol* 1992;230:335–9.
- [55] Daily L. Further observations on foveolar splinter and macular wisps. *Arch Ophthalmol* 1973;90:102–3.
- [56] Mitamura Y, Saito W, Ishida M, et al. Spontaneous closure of traumatic macular hole. *Retina* 2001;21:385–9.
- [57] Arevalo JF. Posterior segment complications after laser-assisted in situ keratomileusis. *Curr Opin Ophthalmol* 2008;19:177–84.
- [58] Yamada H, Sakai A, Yamada E, et al. Spontaneous closure of traumatic macular hole. *Am J Ophthalmol* 2002;134:340–7.
- [59] Yeshurun I, Guerrero-Naranjo JL, Quiroz-Mercado H. Spontaneous closure of a large traumatic macular hole in a young patient. *Am J Ophthalmol* 2002;134:602–3.
- [60] Lange AP, Vandekerckhove K, Becht C, et al. Spontaneous closure of a traumatic macular hole. *Klin Monatsbl Augenheilkd* 2009;226:359–60.
- [61] Valmaggia C, Pfenninger L, Haueter I. Spontaneous closure of a traumatic macular hole. *Klin Monatsbl Augenheilkd* 2009;226:361–2.
- [62] Amari F, Ogino N, Matsumura M, et al. Vitreous surgery for traumatic macular holes. *Retina* 1999;19:410–3.
- [63] Hwang YS, Lai CC, Yang KJ, et al. A rapid and successful treatment for airbag-related traumatic macular hole. *Chang Gung Med J* 2001;24:530–5.
- [64] Chen YP, Chen TL, Chao AN, et al. Surgical management of traumatic macular hole-related retinal detachment. *Am J Ophthalmol* 2005;140:331–3.
- [65] Burton TC. Unilateral Purtscher's retinopathy. *Ophthalmology* 1980;87:1096–105.
- [66] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 185.
- [67] Jacob HS, Craddock PR, Hammerschmidt DE, et al. Complement-induced granulocyte aggregation; an unsuspected mechanism of disease. *N Engl J Med* 1980;302:789–94.
- [68] Kelley JS. Purtscher's retinopathy related to chest compression by safety belts; fluorescein angiographic findings. *Am J Ophthalmol* 1972;74:278–83.
- [69] Madsen PH. Traumatic retinal angiopathy (Purtscher). *Ophthalmologica* 1972;165:453–8.
- [70] Marr WG, Marr EG. Some observations on Purtscher's disease: traumatic retinal angiopathy. *Am J Ophthalmol* 1962;54:693–705.
- [71] Pratt MV, de Venecia G. Purtscher's retinopathy: a clinicohistopathological correlation. *Surv Ophthalmol* 1970;14:417–23.

- [72] Purtscher O. Angiopathia retinae traumatica. Lymphorrhagien des Augengrundes. Albrecht von Graefes Arch Ophthalmol 1912;82:347-71.
- [73] Urbanek J. Fettebolie des Auges. Albrecht von Graefes Arch Ophthalmol 1934;131:147-73.
- [74] Henkind P. Radial peripapillary capillaries of the retina. I. Anatomy: human and comparative. Br J Ophthalmol 1967;51:115-23.
- [75] Agrawal A, McKibbin MA. Purtscher's and Purtscher-like retinopathies: a review. Surv Ophthalmol 2006;51:129-36.
- [76] Khan SG, Frenkel M. Intravitreal hemorrhage associated with rapid increase in intracranial pressure (Terson's syndrome). Am J Ophthalmol 1975;80:37-43.
- [77] Terson A. De l'hémorragie dans le corps vitré au cours de l'hémorragie cérébrale. Clin Ophthalmol 1900;6:309.
- [78] Terson A. Le syndrome de l'hématome du corps vitré et de l'hémorragie intracrânienne spontanés. Ann Oculist 1926;163:666-73.
- [79] Shaw Jr HE, Landers III MB, Sydnor CF. The significance of intraocular hemorrhages due to subarachnoid hemorrhage. Ann Ophthalmol 1977;9:1403-5.
- [80] Walsh FB, Hoyt WF. Clinical neuro-ophthalmology, 3rd ed. Baltimore: Williams & Wilkins; 1969. p. 1786.
- [81] Morris DA, Henkind P. Relationship of intracranial optic-nerve sheath and retinal hemorrhage. Am J Ophthalmol 1967;64:853-9.
- [82] Weingeist TA, Goldman EJ, Folk JC, et al. Terson's syndrome; clinicopathologic correlations. Ophthalmology 1986;93:1435-42.
- [83] Castrén JA. Pathogeneses and treatment of Terson-syndrome. Acta Ophthalmol 1963;41:430-4.
- [84] Clarkson JG, Flynn Jr HW, Daily MJ. Vitrectomy in Terson's syndrome. Am J Ophthalmol 1980;90:549-52.
- [85] Shaw Jr HE, Landers III MB. Vitreous hemorrhage after intracranial hemorrhage. Am J Ophthalmol 1975;80:207-13.
- [86] Garfinkle AM, Danys IR, Nicolle DA, et al. Terson's syndrome; a reversible cause of blindness following subarachnoid hemorrhage. J Neurosurg 1992;76:766-71.
- [87] Keithahn MAZ, Bennett SR, Cameron D, et al. Retinal folds in Terson syndrome. Ophthalmology 1993;100:1187-90.
- [88] Schultz PN, Sobol WM, Weingeist TA. Long-term visual outcome in Terson syndrome. Ophthalmology 1991;98:1814-9.
- [89] Velikay M, Datlinger P, Stolba U, et al. Retinal detachment with severe proliferative vitreoretinopathy in Terson syndrome. Ophthalmology 1994;101:35-7.
- [90] Boogaarts H, Grotenhuis A. Terson's syndrome after endoscopic colloid cyst removal: case report and a review of reported complications. Minim Invasive Neurosurg 2008;51:303-5.
- [91] Inoue T, Tsutsumi K, Shigeeda T. Terson's syndrome as the initial symptom of subarachnoid hemorrhage caused by ruptured vertebral artery aneurysm. Case report. Neurol Med Chir (Tokyo) 2006;46:344-7.
- [92] Choudhari KA, Pherwani AA, Gray WJ. Terson's syndrome as the sole presentation of aneurysmal rupture. Br J Neurosurg 2003;17:355-7.
- [93] Gibran S, Mirza K, Kinsella F. Unilateral vitreous haemorrhage secondary to caudal epidural injection: a variant of Terson's syndrome. Br J Ophthalmol 2002;86:353-4.
- [94] Naseri A, Blumenkranz MS, Horton JC. Terson's syndrome following epidural saline injection. Neurology 2001;57:364.
- [95] Schloff S, Mullaney PB, Armstrong DC, et al. Retinal findings in children with intracranial hemorrhage. Ophthalmology 2002;109:1472-6.
- [96] Oberman J, Cohn H, Grand MG. Retinal complications of gas myelography. Arch Ophthalmol 1979;97:1905-6.
- [97] Kushner FH, Olson JC. Retinal hemorrhage as a consequence of epidural steroid injection. Arch Ophthalmol 1995;113:309-13.
- [98] Ling C, Atkinson PL, Munton CGF. Bilateral retinal haemorrhages following epidural injection. Br J Ophthalmol 1993;77:316-7.
- [99] Budenz DL, Farber MG, Mirchandani HG, et al. Ocular and optic nerve hemorrhages in abused infants with intracranial injuries. Ophthalmology 1994;101:559-65.
- [100] Buys YM, Levin AV, Enzenauer RW, et al. Retinal findings after head trauma in infants and young children. Ophthalmology 1992;99:1718-23.
- [101] Elner SG, Elner VM, Arnall M, et al. Ocular and associated systemic findings in suspected child abuse; a necropsy study. Arch Ophthalmol 1990;108:1094-101.
- [102] Friendly DS. Ocular manifestations of physical child abuse. Trans Am Acad Ophthalmol Otolaryngol 1971;75:318-32.
- [103] Gilkes MJ, Mann TP. Fundi of battered babies. Lancet 1967;2:468-9.
- [104] Greenwald MJ, Weiss A, Oesterle CS, et al. Traumatic retinoschisis in battered babies. Ophthalmology 1986;93:618-25.
- [105] Han DP, Wilkinson WS. Late ophthalmic manifestations of the shaken baby syndrome. J Pediatr Ophthalmol Strabismus 1990;27:299-303.
- [106] Harley RD. Ocular manifestations of child abuse. J Pediatr Ophthalmol Strabismus 1980;17:5-13.
- [107] Jensen AD, Smith RE, Olson MI. Ocular clues to child abuse. J Pediatr Ophthalmol 1971;8:270-2.
- [108] Ober RR. Hemorrhagic retinopathy in infancy: a clinicopathologic report. J Pediatr Ophthalmol Strabismus 1980;17:17-20.
- [109] San Martin R, Steinkuller PG, Nisbet RM. Retinopathy in the sexually abused battered child. Ann Ophthalmol 1981;13:89-91.
- [110] Spaide RF. Shaken baby syndrome; ocular and computed tomographic findings. J Clin Neuro-Ophthalmol 1987;7:108-11.
- [111] Tongue AC. Editorial: The ophthalmologist's role in diagnosing child abuse. Ophthalmology 1991;98:1009-10.
- [112] Garcia CA, Gomes AH, Vianna RN, et al. Late-stage diffuse unilateral subacute neuroretinitis: photocoagulation of the worm does not improve the visual acuity of affected patients. Int Ophthalmol 2005;26:39-42.
- [113] Vedantham V, Vats MM, Kakade SJ, et al. Diffuse unilateral subacute neuroretinitis with unusual findings. Am J Ophthalmol 2006;142:880-3.
- [114] Gaynon MW, Koh K, Marmor MF, et al. Retinal folds in the shaken baby syndrome. Am J Ophthalmol 1988;106:423-5.
- [115] Massicotte SJ, Folberg R, Torczynski E, et al. Vitreoretinal traction and perimacular retinal folds in the eyes of deliberately traumatized children. Ophthalmology 1991;98:1124-7.
- [116] Ludwig S, Warman M. Shaken baby syndrome: a review of 20 cases. Ann Emerg Med 1984;13:104-7.
- [117] Lambert SR, Johnson TE, Hoyt CS. Optic nerve sheath and retinal hemorrhages associated with the shaken baby syndrome. Arch Ophthalmol 1986;104:1509-12.
- [118] Riffenburgh RS, Sathyavagiswaran L. Ocular findings at autopsy of child abuse victims. Ophthalmology 1991;98:1519-24.
- [119] Wilkinson WS, Han DP, Rappley MD, et al. Retinal hemorrhage predicts neurologic injury in the shaken baby syndrome. Arch Ophthalmol 1989;107:1472-4.
- [120] Duane TD. Valsalva hemorrhagic retinopathy. Am J Ophthalmol 1973;75:637-42.
- [121] Gass JDM. Options in the treatment of macular diseases. Trans Ophthalmol Soc UK 1972;92:449-68.
- [122] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 320.
- [123] Kassoff A, Catalano RA, Mehu M. Vitreous hemorrhage and the Valsalva maneuver in proliferative diabetic retinopathy. Retina

- 1988;8:174-6.
- [124] Linde R, Record R, Ferguson J. Resolution of preretinal hemorrhage. *Arch Ophthalmol* 1977;95:1466-7.
- [125] de Crecchio G, Pacente L, Alfieri MC, et al. Valsalva retinopathy associated with a congenital retinal macrovessel. *Arch Ophthalmol* 2000;118:146-7.
- [126] Cortez R, Denny JP, Muci-Mendoza R, et al. Diffuse unilateral subacute neuroretinitis in Venezuela. *Ophthalmology* 2005;112:2110-4.
- [127] Perez-Rico C, Montes-Mollon A, Castro-Rebollo M, et al. Optical coherence tomography features of sub-internal limiting membrane hemorrhage and temporary premacular cavity following Nd-YAG laser membranotomy in Valsalva retinopathy. *Jpn J Ophthalmol* 2008;52:513-5.
- [128] Gabel V-P, Birngruber R, Gunther-Koszka H, et al. Nd:YAG laser photodisruption of hemorrhagic detachment of the internal limiting membrane. *Am J Ophthalmol* 1989;107:33-7.
- [129] Sahu DK, Namperumalsamy P, Kim R, et al. Argon laser treatment for premacular hemorrhage. *Retina* 1998;18:79-82.
- [130] Chen HP, Kuo HK, Tsai SH, et al. Acute retinal necrosis syndrome: clinical manifestations and visual outcomes. *Chang Gung Med J* 2004;27:193-200.
- [131] Pitta CG, Steinert RF, Gragoudas ES, et al. Small unilateral foveal hemorrhages in young adults. *Am J Ophthalmol* 1980;89:96-102.
- [132] Pruett RC, Carvalho ACA, Trempe CL. Microhemorrhagic maculopathy. *Arch Ophthalmol* 1981;99:425-32.
- [133] Kalina RE, Kaiser M. Familial retinal hemorrhages. *Am J Ophthalmol* 1972;74:252-5.
- [134] Archer DB, Canavan YM. Contusional injuries of the distal optic nerve. *Trans Ophthalmol Soc NZ* 1983;35:14-23.
- [135] Chang M, Eifrig DE. Optic nerve avulsion. *Arch Ophthalmol* 1987;105:322-3.
- [136] Park JH, Frenkel M, Dobbie JG, et al. Evulsion of the optic nerve. *Am J Ophthalmol* 1971;72:969-71.
- [137] Salzmann M. Die Ausreissung des Sehnerven (Evulsio nervi optici). *Z Augenheilkd* 1903;9:489-505.
- [138] Williams DF, Williams GA, Abrams GW, et al. Evulsion of the retina associated with optic nerve evulsion. *Am J Ophthalmol* 1987;104:5-9.
- [139] Fechtner RD, Minckler D, Weinreb RN, et al. Complications of glaucoma surgery; ocular decompression retinopathy. *Arch Ophthalmol* 1992;110:965-8.
- [140] Nonoyama S, Tanito M, Katsube T, et al. Decompression retinopathy and serous retinal detachment after trabeculectomy in a patient with systemic amyloidosis. *Jpn J Ophthalmol* 2009;53:73-5.
- [141] Bansal A, Ramanathan US. Ocular decompression retinopathy after trabeculectomy with mitomycin-C for angle recession glaucoma. *Indian J Ophthalmol* 2009;57:153-4.
- [142] Arevalo JF, Mendoza AJ, Millan FA, et al. Simultaneous bilateral ocular decompression retinopathy after trabeculectomy with mitomycin C for uveitic glaucoma. *Graefes Arch Clin Exp Ophthalmol* 2008;246:471-3.
- [143] Wakita M, Kawaji T, Ando E, et al. Ocular decompression retinopathy following trabeculectomy with mitomycin C associated with familial amyloidotic polyneuropathy. *Br J Ophthalmol* 2006;90:515-6.
- [144] Bui CM, Recchia FM, Recchia CC, et al. Optical coherence tomography findings in ocular decompression retinopathy. *Ophthalmic Surg Lasers Imaging* 2006;37:333-5.
- [145] Nah G, Aung T, Yip CC. Ocular decompression retinopathy after resolution of acute primary angle closure glaucoma. *Clin Experiment Ophthalmol* 2000;28:319-20.
- [146] Danias J, Rosenbaum J, Podos SM. Diffuse retinal hemorrhages (ocular decompression syndrome) after trabeculectomy with mitomycin C for neovascular glaucoma. *Acta Ophthalmol Scand* 2000;78:468-9.
- [147] Suzuki R, Nakayama M, Satoh N. Three types of retinal bleeding as a complication of hypotony after trabeculectomy. *Ophthalmologica* 1999;213:135-8.
- [148] Ferry AP. Lesions mistaken for malignant melanoma of the posterior uvea; a clinicopathologic analysis of 100 cases with ophthalmoscopically visible lesions. *Arch Ophthalmol* 1964;72:463-9.
- [149] Lipper S, Eifrig DE, Peiffer RL, et al. Chorioretinal foreign body simulating malignant melanoma. *Am J Ophthalmol* 1981;92:202-5.
- [150] Rones B, Zimmerman LE. An unusual choroidal hemorrhage simulating malignant melanoma. *Arch Ophthalmol* 1963;70:30-2.
- [151] Bego B, Turut P, Malthieu D, et al. Neo-vasseaux sous-retiniens après plaie chorio-retinienne par corps étranger intra-oculaire (1 cas). *Bull Soc Ophtalmol Fr* 1989;89:263-5.
- [152] Duker JS, Belmont JB, Benson WE, et al. Inadvertent globe perforation during retrobulbar and peribulbar anesthesia; patient characteristics, surgical management, and visual outcome. *Ophthalmology* 1991;98:519-26.
- [153] Grizzard WS, Kirk NM, Pavan PR, et al. Perforating ocular injuries caused by anesthesia personnel. *Ophthalmology* 1991;98:1011-6.
- [154] Hay A, Flynn Jr HW, Hoffman JI, et al. Needle penetration of the globe during retrobulbar and peribulbar injections. *Ophthalmology* 1991;98:1017-24.
- [155] Hersch M, Baer G, Dieckert JP, et al. Optic nerve enlargement and central retinal-artery occlusion secondary to retrobulbar anesthesia. *Ann Ophthalmol* 1989;21:195-7.
- [156] Martin DF, Meredith TA, Topping TM, et al. Perforating (through-and-through) injuries of the globe; surgical results with vitrectomy. *Arch Ophthalmol* 1991;109:951-6.
- [157] Mieler WF, Bennett SR, Platt LW, et al. Localized retinal detachment with combined central retinal artery and vein occlusion after retrobulbar anesthesia. *Retina* 1990;10:278-83.
- [158] Morgan CM, Schatz H, Vine AK, et al. Ocular complications associated with retrobulbar injections. *Ophthalmology* 1988;95:660-5.
- [159] Schneider ME, Milstein DE, Oyakawa RT, et al. Ocular perforation from a retrobulbar injection. *Am J Ophthalmol* 1988;106:35-40.
- [160] Klein ML, Jampol LM, Condon PI, et al. Central retinal artery occlusion without retrobulbar hemorrhage after retrobulbar anesthesia. *Am J Ophthalmol* 1982;93:573-7.
- [161] Ahn JC, Stanley JA. Subarachnoid injection as a complication of retrobulbar anesthesia. *Am J Ophthalmol* 1987;103:225-30.
- [162] Brookshire GL, Gleitsmann KY, Schenk EC. Life-threatening complication of retrobulbar block; a hypothesis. *Ophthalmology* 1986;93:1476-8.
- [163] Cohen SM, Sousa FJ, Kelly NE, et al. Respiratory arrest and new retinal hemorrhages after retrobulbar anesthesia. *Am J Ophthalmol* 1992;113:209-11.
- [164] Friedberg HL, Kline Jr OR. Contralateral amaurosis after retrobulbar injection. *Am J Ophthalmol* 1986;101:688-90.
- [165] Javitt JC, Addiego R, Friedberg HL, et al. Brain stem anesthesia after retrobulbar block. *Ophthalmology* 1987;94:718-24.
- [166] Lee DS, Kwon NJ. Shivering following retrobulbar block. *Can J Anaesth* 1988;35:294-6.
- [167] Pautler SE, Grizzard WS, Thompson LN, et al. From retrobulbar injection into the optic nerve. *Ophthalmic Surg* 1986;17:334-7.
- [168] Katsev DA, Drews RC, Rose BT. An anatomic study of

- retrobulbar needle length. *Ophthalmology* 1989;96:1221-4.
- [169] Agarwal LP, Malik SRK. Solar retinitis. *Br J Ophthalmol* 1959;43:366-70.
- [170] Zilis JD, Macherer R. Light damage in detached retina. *Am J Ophthalmol* 1991;111:47-50.
- [171] Cordes FC. Eclipse retinitis. *Am J Ophthalmol* 1948;31:101-3.
- [172] Penner R, McNair JN. Eclipse blindness; report of an epidemic in the military population of Hawaii. *Am J Ophthalmol* 1966;61:1452-7.
- [173] Marlor RL, Blais BR, Preston FR, et al. Foveomacular retinitis, an important problem in military medicine: Epidemiology. *Invest Ophthalmol* 1973;12:5-16.
- [174] Gladstone GJ, Tasman W. Solar retinitis after minimal exposure. *Arch Ophthalmol* 1978;96:1368-9.
- [175] Ewald RA, Ritchey CL. Sun gazing as the cause of foveomacular retinitis. *Am J Ophthalmol* 1970;70:491-7.
- [176] Freedman J, Gombos GM. Fluorescein fundus angiography in self-induced solar retinopathy; a case report. *Can J Ophthalmol* 1971;6:124-7.
- [177] Anacletio AM, Wicker HS. Self-induced solar retinopathy by patients in a psychiatric hospital. *Am J Ophthalmol* 1970;69:731-6.
- [178] Cangelosi GC, Newsome DA. Solar retinopathy in persons on religious pilgrimage. *Am J Ophthalmol* 1988;105:95-7.
- [179] Hope-Ross MTS, Mooney D. Solar retinopathy following religious rituals. *Br J Ophthalmol* 1988;72:931-4.
- [180] Ewald RA. Sun gazing associated with the use of LSD. *Ann Ophthalmol* 1971;3:15-17.
- [181] Fuller DG. Solar maculopathy associated with the use of lysergic acid diethylamide (LSD). *Am J Ophthalmol* 1976;81:413-6.
- [182] Schatz H, Mendelblatt F. Solar retinopathy from sun-gazing under the influence of LSD. *Br J Ophthalmol* 1973;57:270-3.
- [183] Cialdini AP, Jalkh AE, Tolentino FI. Acute foveal outer retinopathy. *Arch Ophthalmol* 1987;105:1490.
- [184] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 322.
- [185] Hope-Ross MW, Mahon GJ, Gardiner TA, et al. Ultrastructural findings in solar retinopathy. *Eye* 1993;7:29-33.
- [186] Yannuzzi LA, Fisher YL, Slakter JS, et al. Solar retinopathy; a photobiologic and geophysical analysis. *Retina* 1989;9:28-43.
- [187] Ham Jr WT, Mueller HA, Ruffolo Jr JJ, et al. Action spectrum for retinal injury from near-ultraviolet radiation in the aphakic monkey. *Am J Ophthalmol* 1982;93:299-306.
- [188] Ham Jr WT, Mueller HA, Ruffolo Jr JJ, et al. Solar retinopathy as a function of wavelength: its significance for protective eyewear. In: Williams TP, Baker BN, editors. *The effects of constant light on visual processes*. New York: Plenum Press; 1980. p. 319-46.
- [189] Ham Jr WT, Mueller HA, Sliney DH. Retinal sensitivity to damage from short wavelength light. *Nature* 1976;260:153-4.
- [190] Ham Jr WT, Mueller HA, Williams RC, et al. Ocular hazard from viewing the sun unprotected and through various windows and filters. *Appl Optics* 1973;12:2122-9.
- [191] Ham Jr WT, Ruffolo Jr JJ, Mueller HA, et al. Histologic analysis of photochemical lesions produced in rhesus retina by short-wavelength light. *Invest Ophthalmol Vis Sci* 1978;17:1029-35.
- [192] Lawwill T. Three major pathologic processes caused by light in the primate retina: a search for mechanisms. *Trans Am Ophthalmol Soc* 1982;80:517-79.
- [193] Li Z-L, Tso MOM, Jampol LM, et al. Retinal injury induced by near-ultraviolet radiation in aphakic and pseudophakic monkey eyes; a preliminary report. *Retina* 1990;10:301-14.
- [194] Tso MOM, LaPiana FG. The human fovea after sungazing. *Trans Am Acad Ophthalmol Otolaryngol* 1975;79:OP788-OP795.
- [195] Kerr LM, Little HL. Foveomacular retinitis. *Arch Ophthalmol* 1966;76:498-504.
- [196] Naidoff MA, Sliney DH. Retinal injury from a welding arc. *Am J Ophthalmol* 1974;77:663-8.
- [197] Power WJ, Travers SP, Mooney DJ. Welding arc maculopathy and fluphenazine. *Br J Ophthalmol* 1991;75:433-5.
- [198] Terrien F. Du pronostic des troubles visuels d'origine électrique. *Arch Ophthalmol (Paris)* 1902;22:692-738.
- [199] Uniat L, Olk RJ, Hanish SJ. Arc-welding maculopathy. *Am J Ophthalmol* 1986;102:394-5.
- [200] Michaels M, Dawson WW, Feldman RB, et al. Infrared; an unseen and unnecessary hazard in ophthalmic devices. *Ophthalmology* 1987;94:143-8.
- [201] Gardner TW, Ai E, Chrobak M, et al. Photoc maculopathy secondary to short-circuiting of a high-tension electric current. *Ophthalmology* 1982;89:865-8.
- [202] Dolphin K, Lincoff H. Bilateral radiant damage to the cornea and retina after exposure to a 700-V electric discharge. *Am J Ophthalmol* 1992;114:775-6.
- [203] Magnavita N. Photoretinitis: an underestimated occupational injury? *Occup Med (Lond)* 2002;52:223-5.
- [204] Brittain GP. Retinal burns caused by exposure to MIG-welding arcs: report of two cases. *Br J Ophthalmol* 1988;72:570-5.
- [205] Beaumont P. Retinal burns from MIG-welding arcs. *Br J Ophthalmol* 1989;73:852.
- [206] Brittain GPH. Retinal burns caused by exposure to MIG-welding arcs: report of two cases. *Br J Ophthalmol* 1988;72:570-5.
- [207] Würdemann HV. The formation of a hole in the macula; light burn from exposure to electric welding. *Am J Ophthalmol* 1936;19:457-60.
- [208] Moon SJ, Kim JE, Han DP. Lightning-induced maculopathy. *Retina* 2005;25:380-2.
- [209] Norman ME, Albertson D, Younge BR. Ophthalmic manifestations of lightning strike. *Surv Ophthalmol* 2001;46:19-24.
- [210] Biro Z, Pamer Z. Electrical cataract and optic neuropathy. *Int Ophthalmol* 1994;18:43-7.
- [211] Boozalis GT, Purdue GF, Hunt JL, et al. Ocular changes from electrical burn injuries. A literature review and report of cases. *J Burn Care Rehabil* 1991;12:458-62.
- [212] Miller BK, Goldstein MH, Monshizadeh R, et al. Ocular manifestations of electrical injury: a case report and review of the literature. *CLAO J* 2002;28:224-7.
- [213] Moore MC. Ocular injury from electric current and lightning flash. *Trans Ophthalmol Soc Aust* 1956;16:87-92.
- [214] Mutlu FM, Duman H, Cil Y. Early-onset unilateral electric cataract: a rare clinical entity. *J Burn Care Rehabil* 2004;25:363-5.
- [215] Reddy SC. Electric cataract: a case report and review of the literature. *Eur J Ophthalmol* 1999;9:134-8.
- [216] Campo RV, Lewis RS. Lightning-induced macular hole. *Am J Ophthalmol* 1984;97:792-4.
- [217] Duke-Elder S, MacFaul PA. *System of ophthalmology*, vol. 14, part 2: Non-mechanical injuries. St Louis: CV Mosby; 1971. pp. 813-35.
- [218] Handa JT, Jaffe GJ. Lightning maculopathy; a case report. *Retina* 1994;14:169-72.
- [219] Noel L-P, Clarke WN, Addison D. Ocular complications of lightning. *J Pediatr Ophthalmol Strabismus* 1980;17:245-6.
- [220] Espaillet A, Janigian Jr R, To K. Cataracts, bilateral macular holes, and rhegmatogenous retinal detachment induced by lightning. *Am J Ophthalmol* 1999;127:216-7.
- [221] Yi C, Liang Y, Jiexiong O, et al. Lightning-induced cataract and neuroretinopathy. *Retina* 2001;21:526-8.
- [222] Lee MS, Gunton KB, Fischer DH, et al. Ocular manifestations of remote lightning strike. *Retina* 2002;22:808-10.



- [223] Rivas-Aguino PJ, Garcia RA, Arevalo JF. Bilateral macular cyst after lightning visualized with optical coherence tomography. *Clin Experiment Ophthalmol* 2006;34:893-4.
- [224] Friedman E, Kuwabara T. The retinal pigment epithelium. IV. The damaging effects of radiant energy. *Arch Ophthalmol* 1968;80:265-79.
- [225] Tso MOM. Photic maculopathy in rhesus monkey; a light and electron microscopic study. *Invest Ophthalmol* 1973;12:17-34.
- [226] Tso MOM, Wallow IHL, Powell JO, et al. Recovery of the rod and cone cells after photic injury. *Trans Am Acad Ophthalmol Otolaryngol* 1972;76:1247-61.
- [227] Tso MOM, Woodford BJ. Effect of photic injury on the retinal tissues. *Ophthalmology* 1983;90:952-63.
- [228] Fuller D, Macheimer R, Knighton RW. Retinal damage produced by intraocular fiber optic light. *Am J Ophthalmol* 1978;85:519-37.
- [229] Brod RD, Olsen KR, Ball SF, et al. The site of operating microscope light-induced injury on the human retina. *Am J Ophthalmol* 1989;107:390-7.
- [230] Fechner PU, Barth R. Effect on the retina of an air cushion in the anterior chamber and coaxial illumination. *Am J Ophthalmol* 1983;96:600-4.
- [231] Hochheimer BF, D'Anna SA, Calkins JL. Retinal damage from light. *Am J Ophthalmol* 1979;88:1039-44.
- [232] Irvine AR, Wood I, Morris BW. Retinal damage from the illumination of the operating microscope; an experimental study in pseudophakic monkeys. *Arch Ophthalmol* 1984;102:1358-65.
- [233] Jaffe GJ, Wood IS. Retinal phototoxicity from the operating microscope: a protective effect by the fovea. *Arch Ophthalmol* 1988;106:445-6.
- [234] Johnson RN, Schatz H, McDonald HR. Photic maculopathy: early angiographic and ophthalmoscopic findings and late development of choroidal folds. *Arch Ophthalmol* 1987;105:1633-4.
- [235] Khwarg SG, Linstone FA, Daniels SA, et al. Incidence, risk factors, and morphology in operating microscope light retinopathy. *Am J Ophthalmol* 1987;103:255-63.
- [236] Parver LM, Auker CR, Fine BS. Observations on monkey eyes exposed to light from an operating microscope. *Ophthalmology* 1983;90:964-72.
- [237] Hupp SL. Delayed, incomplete recovery of macular function after photic retinal damage associated with extracapsular cataract extraction and posterior lens insertion. *Arch Ophthalmol* 1987;105:1022-3.
- [238] Jaffe GJ, Irvine AR, Wood IS, et al. Retinal phototoxicity from the operating microscope; the role of inspired oxygen. *Ophthalmology* 1988;95:1130-41.
- [239] Khwarg SG, Geoghegan M, Hanscom TA. Light-induced maculopathy from the operating microscope. *Am J Ophthalmol* 1984;98:628-30.
- [240] Kraff MC, Sanders DR, Jampol LM, et al. Effect of an ultraviolet-filtering intraocular lens on cystoid macular edema. *Ophthalmology* 1985;92:366-9.
- [241] Kramer T, Brown R, Lynch M, et al. Molteno implants and operating microscope-induced retinal phototoxicity; a clinicopathologic report. *Arch Ophthalmol* 1991;109:379-83.
- [242] Macy JJ, Baerveldt G. Pseudophakic serous maculopathy. *Arch Ophthalmol* 1983;101:228-31.
- [243] McDonald HR, Irvine AR. Light-induced maculopathy from the operating microscope in extracapsular cataract extraction and intraocular lens implantation. *Ophthalmology* 1983;90:945-51.
- [244] Michels M, Sternberg Jr P. Operating microscope-induced retinal phototoxicity: pathophysiology, clinical manifestations and prevention. *Surv Ophthalmol* 1990;34:237-52.
- [245] Robertson DM, Feldman RB. Photic retinopathy from the operating room microscope. *Am J Ophthalmol* 1986;101:561-9.
- [246] Ross WH. Light-induced maculopathy. *Am J Ophthalmol* 1984;98:488-93.
- [247] Stamler JF, Blodi CF, Verdier D, et al. Microscope light-induced maculopathy in combined penetrating keratoplasty, extracapsular cataract extraction, and intraocular lens implantation. *Ophthalmology* 1988;95:1142-6.
- [248] Arden GB, Berninger T, Hogg CR, et al. A survey of color discrimination in German ophthalmologists; changes associated with the use of lasers and operating microscopes. *Ophthalmology* 1991;98:567-75.
- [249] Byrnes GA, Antoszyk AN, Mazur DO, et al. Photic maculopathy after extracapsular surgery; a prospective study. *Ophthalmology* 1992;99:731-8.
- [250] Boldrey EE, Ho BT, Griffith RD. Retinal burns occurring at cataract extraction. *Ophthalmology* 1984;91:1297-302.
- [251] Kuhn F, Morris R, Massey M. Photic retinal injury from endoillumination during vitrectomy. *Am J Ophthalmol* 1991;111:42-6.
- [252] McDonald HR, Harris MJ. Operating microscope-induced retinal phototoxicity during pars plana vitrectomy. *Arch Ophthalmol* 1988;106:521-3.
- [253] McDonald HR, Verre WP, Aaberg TM. Surgical management of idiopathic epiretinal membranes. *Ophthalmology* 1986;93:978-83.
- [254] Meyers SM, Bonner RF. Retinal irradiance from vitrectomy endoilluminators. *Am J Ophthalmol* 1982;94:26-9.
- [255] Michels M, Lewis H, Abrams GW, et al. Macular phototoxicity caused by fiberoptic endoillumination during pars plana vitrectomy. *Am J Ophthalmol* 1992;114:287-96.
- [256] Poliner LS, Tornambe PE. Retinal pigment epitheliopathy after macular hole surgery. *Ophthalmology* 1992;99:1671-7.
- [257] Green WR, Robertson DM. Pathologic findings of photic retinopathy in the human eye. *Am J Ophthalmol* 1991;112:520-7.
- [258] Lam STM, Gurne DH. Amelioration of retinal photic injury in albino rats by dimethylthiourea. *Arch Ophthalmol* 1990;108:1751-7.
- [259] Rosner M, Lam TT, Fu J, et al. Methylprednisolone ameliorates retinal photic injury in rats. *Arch Ophthalmol* 1992;110:857-61.
- [260] Tso MOM. Retinal photic injury in normal and scorbutic monkeys. *Trans Am Ophthalmol Soc* 1987;85:498-556.
- [261] Lawwill T. Effects of prolonged exposure of rabbit retina to low-intensity light. *Invest Ophthalmol* 1973;12:45-51.
- [262] Henry MM, Henry LM, Henry LM. A possible cause of chronic cystic maculopathy. *Ann Ophthalmol* 1977;9:455-7.
- [263] Hochheimer BF. A possible cause of chronic cystic maculopathy; the operating microscope. *Ann Ophthalmol* 1981;13:153-5.
- [264] Mannis MJ, Becker B. Retinal light exposure and cystoid macular edema. *Arch Ophthalmol* 1980;98:1133.
- [265] Alhalel A, Glovinsky Y, Treister G, et al. Long-term follow up of accidental parafoveal laser burns. *Retina* 1993;13:152-4.
- [266] Anderson DR, Knighton RW, Feuer WJ. Evaluation of phototoxic retinal damage after argon laser iridotomy. *Am J Ophthalmol* 1989;107:398-402.
- [267] Boldrey EE, Little HL, Flocks M, et al. Retinal injury due to industrial laser burns. *Ophthalmology* 1981;88:101-7.
- [268] Fowler BJ. Accidental industrial laser burn of macula. *Ann Ophthalmol* 1983;15:481-3.
- [269] Hirsch DR, Booth DG, Schocket S, et al. Recovery from pulsed-dye laser retinal injury. *Arch Ophthalmol* 1992;110:1688-9.
- [270] Liu HF, Gao GH, Wu DC, et al. Ocular injuries from accidental laser exposure. *Health Phys* 1989;56:711-6.
- [271] Zuclich JA, Stolarski DJ. Retinal damage induced by red diode laser. *Health Phys* 2001;81:8-14.

- [272] Hagemann LF, Costa RA, Ferreira HM, et al. Optical coherence tomography of a traumatic neodymium:YAG laser-induced macular hole. *Ophthalmic Surg Lasers Imaging* 2003;34:57-9.
- [273] Cooper BA, Blinder KJ, Shah GK, et al. Femtosecond laser-induced premacular hemorrhage. *Retina* 2004;24:812-4.
- [274] Ying HS, Symons RC, Lin KL, et al. Accidental Nd:YAG laser-induced choroidal neovascularization. *Lasers Surg Med* 2008;40:240-2.
- [275] Berninger TA, Canning CR, Gündüz K, et al. Using argon laser blue light reduces ophthalmologists' color contrast sensitivity; argon blue and surgeons' vision. *Arch Ophthalmol* 1989;107:1453-8.
- [276] Gündüz K, Arden GB. Changes in colour contrast sensitivity associated with operating argon lasers. *Br J Ophthalmol* 1989;73:241-6.
- [277] Wiebers DO, Swanson JW, Cascino TL, et al. Bilateral loss of vision in bright light. *Stroke* 1989;20:554-8.
- [278] Robertson DM, Lim TH, Salomao DR, et al. Laser pointers and the human eye: a clinicopathologic study. *Arch Ophthalmol* 2000;118:1686-91.
- [279] Robertson DM, McLaren JW, Salomao DR, et al. Retinopathy from a green laser pointer: a clinicopathologic study. *Arch Ophthalmol* 2005;123:629-33.
- [280] Cruickshanks KJ, Klein R, Klein BEK. Sunlight and age-related macular degeneration; the Beaver Dam Eye Study. *Arch Ophthalmol* 1993;111:514-8.
- [281] Taylor HR, Muñoz B, West S, et al. Visible light and risk of age-related macular degeneration. *Trans Am Ophthalmol Soc* 1990;88:163-73.
- [282] Taylor HR, West S, Muñoz B, et al. The long-term effects of visible light on the eye. *Arch Ophthalmol* 1992;110:99-104.
- [283] West SK, Rosenthal FS, Bressler NM, et al. Exposure to sunlight and other risk factors for age-related macular degeneration. *Arch Ophthalmol* 1989;107:875-9.

## 第9章

- [1] Bernstein H, Zvaifler N, Rubin M, et al. The ocular deposition of chloroquine. *Invest Ophthalmol* 1963;2:384-92.
- [2] Brinkley Jr JR, Dubois EL, Ryan SJ. Long-term course of chloroquine retinopathy after cessation of medication. *Am J Ophthalmol* 1979;88:1-11.
- [3] Carr RE, Gouras P, Gunkel RD. Chloroquine retinopathy; early detection by retinal threshold test. *Arch Ophthalmol* 1966;75:171-8.
- [4] Carr RE, Henkind P, Rothfield N, et al. Ocular toxicity of antimalarial drugs; long-term follow-up. *Am J Ophthalmol* 1968;66:738-44.
- [5] Easterbrook M. The use of Amsler grids in early chloroquine retinopathy. *Ophthalmology* 1984;91:1368-72.
- [6] François J, de Rouck A, Cambie E, et al. Rétinopathie chloroquinique. *Ophthalmologica* 1972;165:81-99.
- [7] Grant WM. *Toxicology of the eye*, 4th ed. Springfield, IL: CC Thomas; 1993. p. 371-82.
- [8] Hart Jr WM, Burde RM, Johnston GP, et al. Static perimetry in chloroquine retinopathy; perifoveal patterns of visual field depression. *Arch Ophthalmol* 1984;102:377-80.
- [9] Heckenlively JR, Martin D, Levy J. Chloroquine retinopathy. *Am J Ophthalmol* 1980;89:150.
- [10] Henkind P, Carr RE, Siegel IM. Early chloroquine retinopathy: clinical and functional findings. *Arch Ophthalmol* 1964;71:157-65.
- [11] Henkind P, Gold DH. Ocular manifestations of rheumatic disorders; natural and iatrogenic. *Rheumatology* 1973;4:13-59.
- [12] Henkind P, Rothfield NF. Ocular abnormalities in patients treated with synthetic antimalarial drugs. *N Engl J Med* 1963;269:433-9.
- [13] Kearns TP, Hollenhorst RW. Chloroquine retinopathy; evaluation by fluorescein fundus angiography. *Arch Ophthalmol* 1966;76:378-84.
- [14] Martin LJ, Bergen RL, Dobrow HR. Delayed onset chloroquine retinopathy: case report. *Ann Ophthalmol* 1978;10:723-6.
- [15] Percival SPB, Behrman J. Ophthalmological safety of chloroquine. *Br J Ophthalmol* 1969;53:101-9.
- [16] Ramsey MS, Fine BS. Chloroquine toxicity in the human eye; histopathologic observations by electron microscopy. *Am J Ophthalmol* 1972;73:229-35.
- [17] Rubin M, Bernstein HN, Zvaifler NJ. Studies on the pharmacology of chloroquine; recommendations for the treatment of chloroquine retinopathy. *Arch Ophthalmol* 1963;70:474-81.
- [18] Rynes RI, Krohel G, Falbo A, et al. Ophthalmologic safety of long-term hydroxychloroquine treatment. *Arthritis Rheum* 1979;22:832-6.
- [19] Sachs DD, Hogan MJ, Engleman EP. Chorioretinopathy induced by chronic administration of chloroquine phosphate (abstract). *Arthritis Rheum* 1962;5:318-9.
- [20] Sassani JW, Brucker AJ, Cobbs W, et al. Progressive chloroquine retinopathy. *Ann Ophthalmol* 1983;15:19-22.
- [21] Tobin DR, Krohel GB, Rynes RI. Hydroxychloroquine seven-year experience. *Arch Ophthalmol* 1982;100:81-3.
- [22] Wetterholm DH, Winter FC. Histopathology of chloroquine retinal toxicity. *Arch Ophthalmol* 1964;71:82-7.
- [23] Johnson MW, Vine AK. Hydroxychloroquine therapy in massive doses without retinal toxicity. *Am J Ophthalmol* 1987;104:139-44.
- [24] Raines MF, Bhargava SK, Rosen ES. The blood-retinal barrier in chloroquine retinopathy. *Invest Ophthalmol Vis Sci* 1989;30:1726-31.
- [25] Weiner A, Sandberg MA, Gaudio AR, et al. Hydroxychloroquine retinopathy. *Am J Ophthalmol* 1991;112:528-34.
- [26] Shearer RV, Dubois EL. Ocular changes induced by long-term hydroxychloroquine (Plaquenil) therapy. *Am J Ophthalmol* 1967;64:245-52.
- [27] Shroyer NF, Lewis RA, Lupski JR. Analysis of the ABCR (ABCA4) gene in 4-aminoquinoline retinopathy: is retinal toxicity by chloroquine and hydroxychloroquine related to Stargardt disease? *Am J Ophthalmol* 2001;131:761-6.
- [28] Weiter JJ, Delori F, Dorey CK. Central sparing in annular macular degeneration. *Am J Ophthalmol* 1988;106:286-92.
- [29] Cruess AF, Schachat AP, Nicholl J, et al. Chloroquine retinopathy; is fluorescein angiography necessary? *Ophthalmology* 1985;92:1127-9.
- [30] Chang WH, Katz BJ, Warner JE, et al. A novel method for screening the multifocal electroretinogram in patients using hydroxychloroquine. *Retina* 2008;28:1478-86.
- [31] Gilbert ME, Savino PJ. Missing the bull's eye. *Surv Ophthalmol* 2007;52:440-2.
- [32] Teoh SC, Lim J, Koh A, et al. Abnormalities on the

- multifocal electroretinogram may precede clinical signs of hydroxychloroquine retino-toxicity. *Eye* 2006;20:129–32.
- [33] Lai TY, Chan WM, Li H, et al. Multifocal electroretinographic changes in patients receiving hydroxychloroquine therapy. *Am J Ophthalmol* 2005;140:794–807.
- [34] Neubauer AS, Stiefelmeyer S, Berninger T, et al. The multifocal pattern electroretinogram in chloroquine retinopathy. *Ophthalmic Res* 2004;36:106–13.
- [35] Maturi RK, Yu M, Weleber RG. Multifocal electroretinographic evaluation of long-term hydroxychloroquine users. *Arch Ophthalmol* 2004;122:973–81.
- [36] Penrose PJ, Tzekov RT, Sutter EE, et al. Multifocal electroretinography evaluation for early detection of retinal dysfunction in patients taking hydroxychloroquine. *Retina* 2003;23:503–12.
- [37] Bernstein HN, Ginsberg J. The pathology of chloroquine retinopathy. *Arch Ophthalmol* 1964;71:238–45.
- [38] Gaynes BI, Torczynski E, Varro Z, et al. Retinal toxicity of chloroquine hydrochloride administered by intraperitoneal injection. *J Appl Toxicol* 2008;28:895–900.
- [39] Ehrenfeld M, Neshor R, Merin SL. Delayed-onset chloroquine retinopathy. *Br J Ophthalmol* 1986;70:281–3.
- [40] Applebaum A. An ophthalmoscopic study of patients under treatment with thioridazine. *Arch Ophthalmol* 1963;69:578–80.
- [41] Connell MM, Poley BJ, McFarlane JR. Chorioretinopathy associated with thioridazine therapy. *Arch Ophthalmol* 1964;71:816–21.
- [42] Davidorf FH. Thioridazine pigmentary retinopathy. *Arch Ophthalmol* 1973;90:251–5.
- [43] de Margerie J. Ocular changes produced by a phenothiazine drug: thioridazine. *Trans Can Ophthalmol Soc* 1962;25:160–75.
- [44] Fishman GA. Thioridazine hydrochloride (Mellaril) toxic pigmentary chorioretinopathy. In: Smith JL, editor. *Neuro-ophthalmology focus* 1982. New York: Masson; 1981. p. 109–18.
- [45] Gregory MH, Ruddy DA, Wood RD. Differences in the retinotoxic action of chloroquine and phenothiazine derivatives. *J Pathol* 1970;102:139–50.
- [46] Heshe J, Engelstoft FH, Kirk L. Retinal injury developing under thioridazine therapy. *Nord Psykiatr T* 1961;15:442–7.
- [47] Kimbrough BO, Campbell RJ. Thioridazine levels in the human eye. *Arch Ophthalmol* 1981;99:2188–9.
- [48] Kozy D, Doft BH, Lipkowitz J. Nummular thioridazine retinopathy. *Retina* 1984;4:253–6.
- [49] Meredith TA, Aaberg TM, Willerson WD. Progressive chorioretinopathy after receiving thioridazine. *Arch Ophthalmol* 1978;96:1172–6.
- [50] Miller III FS, Bunt-Milam AH, Kalina RE. Clinical-ultrastructural study of thioridazine retinopathy. *Ophthalmology* 1982;89:1478–88.
- [51] Potts AM. Uveal pigment and phenothiazine compounds. *Trans Am Ophthalmol Soc* 1962;60:517–52.
- [52] Potts AM. The reaction of uveal pigment in vitro with polycyclic compounds. *Invest Ophthalmol* 1964;3:405–16.
- [53] Scott AW. Retinal pigmentation in a patient receiving thioridazine. *Arch Ophthalmol* 1963;70:775–8.
- [54] Marmor MF. Is thioridazine retinopathy progressive? Relationship of pigmentary changes to visual function. *Br J Ophthalmol* 1990;74:739–42.
- [55] Kimbrough BO, Campbell RJ. Thioridazine levels in the human eye. *Arch Ophthalmol* 1981;99:2188–9.
- [56] Fornaro P, Calabria G, Corallo G, et al. Pathogenesis of degenerative retinopathies induced by thioridazine and other antipsychotics: a dopamine hypothesis. *Doc Ophthalmol* 2002;105:41–9.
- [57] Burian HM, Fletcher MC. Visual functions in patients with retinal pigmentary degeneration following the use of NP 207. *Arch Ophthalmol* 1958;60:612–29.
- [58] DeLong SL, Poley BJ, McFarlane JR. Ocular changes associated with long-term chlorpromazine therapy. *Arch Ophthalmol* 1965;73:611–7.
- [59] MATHALONE MBR. Eye and skin changes in psychiatric patients treated with chlorpromazine. *Br J Ophthalmol* 1967;51:86–93.
- [60] Weekley RD, Potts AM, Reboton J, et al. Pigmentary retinopathy in patients receiving high doses of a new phenothiazine. *Arch Ophthalmol* 1960;64:65–76.
- [61] Craythorn JM, Swartz M, Creel DJ. Clofazimine-induced bull's-eye retinopathy. *Retina* 1986;6:50–2.
- [62] Cunningham CA, Friedberg DM, Carr RE. Clofazimine-induced generalized retinal degeneration. *Retina* 1990;10:131–4.
- [63] Blake DR, Winyard P, Lunec J, et al. Cerebral and ocular toxicity induced by desferrioxamine. *Q J Med* 1985;56:345–55.
- [64] Cases A, Kelly J, Sabater F, et al. Ocular and auditory toxicity in hemodialyzed patients receiving desferrioxamine. *Nephron* 1990;56:19–23.
- [65] Davies SC, Marcus RE, Hungerford JL, et al. Ocular toxicity of high-dose intravenous desferrioxamine. *Lancet* 1983;2:181–4.
- [66] Lakhanpal V, Schocket SS, Jiji R. Deferoxamine (Desferal(Rx))-induced toxic retinal pigmentary degeneration and presumed optic neuropathy. *Ophthalmology* 1984;91:443–51.
- [67] O'Hare JA, Murnaghan DJ. Evidence of increased parathyroid activity on discontinuation of high-aluminum dialysate in patients undergoing hemodialysis. *Am J Med* 1984;77:229–32.
- [68] Pall H, Blake DR, Winyard P, et al. Ocular toxicity of desferrioxamine – an example of copper promoted auto-oxidative damage? *Br J Ophthalmol* 1989;73:42–7.
- [69] Rahi AHS, Hungerford JL, Ahmed AI. Ocular toxicity of desferrioxamine: light microscopic histochemical and ultrastructural findings. *Br J Ophthalmol* 1986;70:373–81.
- [70] Ravelli M, Scaroni P, Mombelloni S, et al. Acute visual disorders in patients on regular dialysis given desferrioxamine as a test. *Nephrol Dial Transplant* 1990;5:945–9.
- [71] Mehta AM, Engstrom Jr RE, Kreiger AE. Deferoxamine-associated retinopathy after subcutaneous injection. *Am J Ophthalmol* 1994;118:260–2.
- [72] Gonzales CR, Lin AP, Engstrom RE, et al. Bilateral vitelliform maculopathy and deferoxamine toxicity. *Retina* 2004;24:464–7.
- [73] Hidajat RR, McLay JL, Goode DH, et al. EOG as a monitor of desferrioxamine retinal toxicity. *Doc Ophthalmol* 2004;109:273–8.
- [74] Haimovici R, D'Amico DJ, Gragoudas ES, et al. The expanded clinical spectrum of deferoxamine retinopathy. *Ophthalmology* 2002;109:164–71.
- [75] Pall H, Blake DR, Winyard P, et al. Ocular toxicity of desferrioxamine – an example of copper promoted auto-oxidative damage? *Br J Ophthalmol* 1989;73:42–7.
- [76] Cibis PA, Brown EB, Hong SM. Ocular effects of systemic siderosis. *Am J Ophthalmol* 1957;44:158–72.
- [77] Cibis PA, Yamashita T, Rodrigues F. Clinical aspects of ocular siderosis and hemosiderosis. *Arch Ophthalmol* 1959;62:180–7.
- [78] Schocket SS, Lakhanpal V, Varma SD. Siderosis from a retained intraocular stone. *Retina* 1981;1:201–7.
- [79] Cleary G, Sheth HG, Laidlaw AH. Delayed transient macular ischaemia due to ocular siderosis. *Eye* 2007;21:1132–3.
- [80] Shaikh S, Blumenkranz MS. Fluorescein angiographic findings in ocular siderosis. *Am J Ophthalmol* 2001;131:136–8.
- [81] Knave B. Electroretinography in eyes with retained intraocular metallic foreign bodies; a clinical study. *Acta Ophthalmol Suppl* 1969:100.
- [82] Kuhn F, Witherspoon CD, Skalka H, et al. Improvement of

- siderotic ERG. *Eur J Ophthalmol* 1992;2:44-5.
- [83] Imaizumi M, Matsumoto CS, Yamada K, et al. Electroretinographic assessment of early changes in ocular siderosis. *Ophthalmologica* 2000;214:354-9.
- [84] O'Duffy D, Salmon JF. Siderosis bulbi resulting from an intralenticular foreign body. *Am J Ophthalmol* 1999;127:218-9.
- [85] Broendstrup P. Two cases of temporary siderosis bulbi with spontaneous resorption and without impairment of function. *Acta Ophthalmol* 1944;22:311-6.
- [86] Konstantinidis L, Borruat FX, Wolfensberger TJ. Long-term stability of retinal function despite retained intraocular metallic foreign body. *Klin Monatsbl Augenheilkd* 2008;225:482-5.
- [87] Sneed SR. Ocular siderosis. *Arch Ophthalmol* 1988;106:997.
- [88] Sneed SR, Weingeist TA. Management of siderosis bulbi due to a retained iron-containing intraocular foreign body. *Ophthalmology* 1990;97:375-9.
- [89] Hodgkins PR, Morrell AJ, Luff AJ, et al. Pigment epitheliopathy with serous detachment of the retina following intravenous iron dextran. *Eye* 1992;6:414-5.
- [90] Masciulli L, Anderson DR, Charles S. Experimental ocular siderosis in the squirrel monkey. *Am J Ophthalmol* 1972;74:638-61.
- [91] Delaney Jr WV. Presumed ocular chalcosis: a reversible maculopathy. *Ann Ophthalmol* 1975;7:378-80.
- [92] Felder KS, Gottlieb F. Reversible chalcosis. *Ann Ophthalmol* 1984;16:638-41.
- [93] Rao NA, Tso MOM, Rosenthal AR. Chalcosis in the human eye; a clinicopathologic study. *Arch Ophthalmol* 1976;94:1379-84.
- [94] Rosenthal AR, Appleton B. Histochemical localization of intraocular copper foreign bodies. *Am J Ophthalmol* 1975;79:613-25.
- [95] Rao NA, Tso MO, Rosenthal AR. Chalcosis in the human eye. A clinicopathologic study. *Arch Ophthalmol* 1976;94:1379-84.
- [96] Pala G, Fronterre A, Scafa F, et al. Ocular argyrosis in a silver craftsman. *J Occup Health* 2008;50:521-4.
- [97] Cohen SY, Quentel G, Egasse D, et al. The dark choroid in systemic argyrosis. *Retina* 1993;13:312-6.
- [98] Spencer WH, Garron LK, Contreras F, et al. Endogenous and exogenous ocular and systemic silver deposition. *Trans Ophthalmol Soc UK* 1980;100:171-8.
- [99] Caruso R, Wilding G, Ballintine E, et al. Cisplatin retinopathy. *ARVO Abstracts. Invest Ophthalmol Vis Sci* 1985;26(Suppl.):34.
- [100] Greenberg HS, Ensminger WD, Chandler WF, et al. Intra-arterial BCNU chemotherapy for treatment of malignant gliomas of the central nervous system. *J Neurosurg* 1984;61:423-9.
- [101] Grimson BS, Mahaley Jr MS, Dubey HD, et al. Ophthalmic and central nervous system complications following intracarotid BCNU (Carmustine). *J Clin Neuro-Ophthalmol* 1981;1:261-4.
- [102] Kupersmith MJ, Frohman LP, Choi IS, et al. Visual system toxicity following intra-arterial chemotherapy. *Neurology* 1988;38:284-9.
- [103] Margo CE, Murtagh FR. Ocular and orbital toxicity after intracarotid cisplatin therapy. *Am J Ophthalmol* 1993;116:508-9.
- [104] Miller DF, Bay JW, Lederman RG, et al. Ocular and orbital toxicity of BCNU (Carmustine) and cisplatin for malignant gliomas. *Ophthalmology* 1985;92:402-6.
- [105] Ostrow S, Hahn P, Wiernik PH, et al. Ophthalmologic toxicity after cis-dichlorodiammine platinum(II) therapy. *Cancer Treat Rep* 1978;62:1591-4.
- [106] Shingleton BJ, Bienfang DC, Albert DM, et al. Ocular toxicity associated with high-dose carmustine. *Arch Ophthalmol* 1982;100:1766-72.
- [107] Kwan AS, Sahu A, Pallexes G. Retinal ischemia with neovascularization in cisplatin related retinal toxicity. *Am J Ophthalmol* 2006;141:196-7.
- [108] Khawly JA, Rubin P, Petros W, et al. Retinopathy and optic neuropathy in bone marrow transplantation for breast cancer. *Ophthalmology* 1996;103:87-95.
- [109] Kupersmith MJ, Seiple WH, Holopigian K, et al. Maculopathy caused by intra-arterially administered cisplatin and intravenously administered carmustine. *Am J Ophthalmol* 1992;113:435-8.
- [110] Millay RH, Klein ML, Shults WT, et al. Maculopathy associated with combination chemotherapy and osmotic opening of the blood-brain barrier. *Am J Ophthalmol* 1986;102:626-32.
- [111] Bourla DH, Sarraf D, Schwartz SD. Peripheral retinopathy and maculopathy in high-dose tamoxifen therapy. *Am J Ophthalmol* 2007;144:126-8.
- [112] Kaiser-Kupfer MI, Kupfer C, Rodrigues MM. Tamoxifen retinopathy; a clinicopathologic report. *Ophthalmology* 1981;88:89-93.
- [113] Kaiser-Kupfer MI, Lippman ME. Tamoxifen retinopathy. *Cancer Treat Rep* 1978;62:315-20.
- [114] McKeown CA, Swartz M, Blom J, et al. Tamoxifen retinopathy. *Br J Ophthalmol* 1981;65:177-9.
- [115] Vinding T, Nielsen NV. Retinopathy caused by treatment with tamoxifen in low dosage. *Acta Ophthalmol* 1983;61:45-50.
- [116] Mauget-Faysse M, Gambrelle J, Quaranta-EI Maftouhi M. Optical coherence tomography in tamoxifen retinopathy. *Breast Cancer Res Treat* 2006;99:117-8.
- [117] Gualino V, Cohen SY, Delyfer MN, et al. Optical coherence tomography findings in tamoxifen retinopathy. *Am J Ophthalmol* 2005;140:757-8.
- [118] Ashford AR, Donev I, Tiwari RP, et al. Reversible ocular toxicity related to tamoxifen therapy. *Cancer* 1988;61:33-5.
- [119] Chang T, Gonder JR, Ventresca MR. Low-dose tamoxifen retinopathy. *Can J Ophthalmol* 1992;27:148-9.
- [120] Griffiths MFP. Tamoxifen retinopathy at low dosage. *Am J Ophthalmol* 1987;104:185-6.
- [121] Heier JS, Dragoo RA, Enzenauer RW, et al. Screening for ocular toxicity in asymptomatic patients treated with tamoxifen. *Am J Ophthalmol* 1994;117:772-5.
- [122] Pavlidis NA, Petris C, Briassoulis E, et al. Clear evidence that long-term low-dose tamoxifen treatment can induce ocular toxicity. A prospective study of 63 patients. *Cancer* 1992;69:2961-4.
- [123] Cronin BG, Lekich CK, Bourke RD. Tamoxifen therapy conveys increased risk of developing a macular hole. *Int Ophthalmol* 2005;26:101-5.
- [124] Bernstein PS, DellaCroce JT. Diagnostic & therapeutic challenges. Tamoxifen toxicity. *Retina* 2007;27:982-8.
- [125] Salomao SR, Watanabe SE, Berezovsky A, et al. Multifocal electroretinography, color discrimination and ocular toxicity in tamoxifen use. *Curr Eye Res* 2007;32:345-52.
- [126] Albert DM, Bullock JD, Lahav M, et al. Flecked retina secondary to oxalate crystals from methoxyflurane anesthesia: clinical and experimental studies. *Trans Am Acad Ophthalmol Otolaryngol* 1975;79:OP817-OP826.
- [127] Bullock JD, Albert DM. Flecked retina; appearance secondary to oxalate crystals from methoxyflurane anesthesia. *Arch Ophthalmol* 1975;93:26-30.
- [128] Novak MA, Roth AS, Levine MR. Calcium oxalate retinopathy associated with methoxyflurane anesthesia. *Retina* 1988;8:230-6.
- [129] Wells CG, Johnson RJ, Qingli L, et al. Retinal oxylosis; a clinicopathologic report. *Arch Ophthalmol* 1989;107:1638-43.
- [130] Boudreault G, Cortin P, Corriveau L-A, et al. La rétinopathie à la canthaxanthine. 1. Étude clinique de 51 consommateurs. *Can J Ophthalmol* 1983;18:325-8.
- [131] Cortin P, Boudreault G, Rousseau AP, et al. La rétinopathie à la



- canthaxanthine: 2. Facteurs prédisposants. *Can J Ophthalmol* 1984;19:215–9.
- [132] Cortin P, Corriveau LA, Rousseau A, et al. Canthaxanthine retinopathy. *J Ophthalmic Photogr* 1983;6:68.
- [133] Cortin P, Corriveau LA, Rousseau AP, et al. Maculopathie en paillettes d'or. *Can J Ophthalmol* 1982;17:103–6.
- [134] Harnois C, Samson J, Malenfant M, et al. Canthaxanthin retinopathy; anatomic and functional reversibility. *Arch Ophthalmol* 1989;107:538–40.
- [135] Lonni LI. Canthaxanthin retinopathy. *Arch Ophthalmol* 1987;105:1590–1.
- [136] Metge P, Mandirac-Bonnefoy C, Bellaube P. Thésaurismose rétinienne à la canthaxanthine. *Bull Mem Soc Fr Ophtalmol* 1984;95:547–9.
- [137] Ros AM, Leyon H, Wennersten G. Crystalline retinopathy in patients taking an oral drug containing canthaxanthine. *Photodermatol* 1985;2:183–5.
- [138] Chang TS, Aylward GW, Clarkson JG, et al. Asymmetric canthaxanthin retinopathy. *Am J Ophthalmol* 1995;119:801–2.
- [139] Philip W. Carotinoid-Einlagerungen in der Netzhaut. *Klin Monatsbl Augenheilkd* 1985;187:439–40.
- [140] Hennekes R, Weber U, Kühle HJ. Über canthaxanthinschäden der Netzhaut. *Z Praxt Augenheilkd* 1985;6:7.
- [141] Hennekes R. Periphere Netzhautdystrophie nach Canthaxanthin-Einnahme?. *Fortschr Ophthalmol* 1986;83:600–1.
- [142] Harnois C, Cortin P, Samson J, et al. Static perimetry in canthaxanthin maculopathy. *Arch Ophthalmol* 1988;106:58–60.
- [143] Barker FM, Arden GB, Bird AC, et al. The ERG in canthaxanthin therapy. *ARVO Abstracts*. *Invest Ophthalmol Vis Sci* 1987;28(Suppl.):304.
- [144] McGuinness R, Beaumont P. Gold dust retinopathy after the ingestion of canthaxanthine to produce skin-bronzing. *Med J Aust* 1985;143:622–3.
- [145] Arden GB, Oluwole JO, Polkinghorne P, et al. Monitoring of patients taking canthaxanthin and carotene: an electroretinographic and ophthalmological survey. *Hum Toxicol* 1989;8:439–50.
- [146] Saraux H, Laroche L. Maculopathie à paillettes d'or après absorption de canthaxanthine. *Bull Soc Ophtalmol Fr* 1983;83:1273–5.
- [147] Weber U, Goerz G. Augenschaden durch Carotinoid-Einnahme. *Dtsch Arzteblatt* 1985;25:181.
- [148] Daicker B, Schiedt K, Adnet JJ, et al. Canthaxanthin retinopathy; an investigation by light and electron microscopy and physicochemical analysis. *Graefes Arch Clin Exp Ophthalmol* 1987;225:189–97.
- [149] Leyon H, Ros AM, Nyberg S, et al. Reversibility of canthaxanthin deposits within the retina. *Acta Ophthalmol* 1990;68:607–11.
- [150] Weber U, Kern W, Novotny GEK, et al. Experimental carotenoid retinopathy. I. Functional and morphological alterations of the rabbit retina after 11 months dietary carotenoid application. *Graefes Arch Clin Exp Ophthalmol* 1987;225:198–205.
- [151] Weber U, Michaelis L, Kern W, et al. Experimental carotenoid retinopathy. II. Functional and morphological alterations of the rabbit retina after acute canthaxanthin application with small unilamellar phospholipid liposomes. *Graefes Arch Clin Exp Ophthalmol* 1987;225:346–50.
- [152] Oosterhuis JA, Remky H, Nijman NM, et al. Canthaxanthin-retinopathie ohne Canthaxanthin-Einnahme. *Klin Monatsbl Augenheilkd* 1989;194:110–6.
- [153] Ibanez HE, Williams DF, Boniuk I. Crystalline retinopathy associated with long-term nitrofurantoin therapy. *Arch Ophthalmol* 1994;112:304–5.
- [154] Scallion LJ, Burke JM, Mieler WF, et al. Canthaxanthine-induced retinal pigment epithelial changes in the cat. *Curr Eye Res* 1988;7:687–93.
- [155] Goralczyk R, Barker FM, Buser S, et al. Dose dependency of canthaxanthin crystals in monkey retina and spatial distribution of its metabolites. *Invest Ophthalmol Vis Sci* 2000;41:1513–22.
- [156] Chan A, Ko TH, Duker JS. Ultrahigh-resolution optical coherence tomography of canthaxanthine retinal crystals. *Ophthalmic Surg Lasers Imaging* 2006;37:138–9.
- [157] Sarraf D, Ceron O, Rasheed K, et al. West African crystalline maculopathy. *Arch Ophthalmol* 2003;121:338–42.
- [158] Rajak SN, Mohamed MD, Pelosini L. Further insight into West African crystalline maculopathy. *Arch Ophthalmol* 2009;127:863–8.
- [159] Browning DJ. West African crystalline maculopathy. *Ophthalmology* 2004;111:921–5.
- [160] Ibanez HE, Williams DF, Boniuk I. Crystalline retinopathy associated with long-term nitrofurantoin therapy. *Arch Ophthalmol* 1994;112:304–5.
- [161] Bors F, Fells P. Reversal of the complications of self-induced vitamin A deficiency. *Br J Ophthalmol* 1971;55:210–4.
- [162] Brown GC, Felton SM, Benson WE. Reversible night blindness associated with intestinal bypass surgery. *Am J Ophthalmol* 1980;89:776–9.
- [163] Dowling JE. Night blindness, dark adaptation, and the electroretinogram. *Am J Ophthalmol* 1960;50:875–89.
- [164] Fells P, Bors F. Ocular complications of self-induced vitamin A deficiency. *Trans Ophthalmol Soc UK* 1969;89:221–8.
- [165] Fuchs A. White spots of the fundus combined with night blindness and xerosis (Uyemura's syndrome). *Am J Ophthalmol* 1959;48:101–3.
- [166] Grey RHB. Visual field changes following hepatic transplantation in a patient with primary biliary cirrhosis. *Br J Ophthalmol* 1991;75:377–80.
- [167] Levy NS, Toskes PP. Fundus albipunctatus and vitamin A deficiency. *Am J Ophthalmol* 1974;78:926–9.
- [168] O'Donnell M, Talbot JF. Vitamin A deficiency in treated cystic fibrosis: case report. *Br J Ophthalmol* 1987;71:787–90.
- [169] Sommer A, Tjakrasudjatma S, Djunaedi E, et al. Vitamin A-responsive panocular xerophthalmia in a healthy adult. *Arch Ophthalmol* 1978;96:1630–4.
- [170] Teng-Khoen-Hing. Fundus changes in hypovitaminosis A. *Ophthalmologica* 1959;137:81–5.
- [171] Teng-Khoen-Hing. Further contributions to the fundus xerophthalmicus. *Ophthalmologica* 1965;150:219–38.
- [172] Uyemura M. Ueber eine merkwürdige Augenhintergrundveränderung bei zwei Fällen von idiopathischer Hemeralopie. *Klin Monatsbl Augenheilkd* 1928;81:471–3.
- [173] Balian JV. Accidental intraocular tobramycin injection: a case report. *Ophthalmic Surg* 1983;14:353–4.
- [174] Campochiaro PA, Lim JJ. The Aminoglycoside Toxicity Study Group: aminoglycoside toxicity in the treatment of endophthalmitis. *Arch Ophthalmol* 1994;112:48–53.
- [175] Grizzard WS. Aminoglycoside macular toxicity after subconjunctival injection. *Arch Ophthalmol* 1990;108:1206.
- [176] Judson PH. Aminoglycoside macular toxicity after subconjunctival injection. *Arch Ophthalmol* 1989;107:1282–3.
- [177] McDonald HR, Schatz H, Allen AW, et al. Retinal toxicity secondary to intraocular gentamicin injection. *Ophthalmology* 1986;93:871–7.
- [178] Snider III JD, Cohen HB, Chenoweth RG. Acute ischemic retinopathy secondary to intraocular injection of gentamicin. In: Ryan SJ, Dawson AK, Little HL, editors. *Retinal diseases*. Orlando, FL: Grune & Stratton; 1985. p. 227–32.
- [179] Loewenstein A, Zemel E, Vered Y, et al. Retinal toxicity of

- gentamicin after subconjunctival injection performed adjacent to thinned sclera. *Ophthalmology* 2001;108:759–64.
- [180] Rosenbaum JD, Krumholz DM, Metz DM. Gentamicin retinal toxicity after cataract surgery in an eye that underwent vitrectomy. *Ophthalmic Surg Lasers* 1997;28:236–8.
- [181] Seawright AA, Bourke RD, Cooling RJ. Macula toxicity after intravitreal amikacin. *Aust N Z J Ophthalmol* 1996;24:143–6.
- [182] Green K, Chapman J, Cheeks L. Ocular toxicity of subconjunctival gentamicin. *Lens Eye Toxic Res* 1992;9:439–46.
- [183] Campochiaro PA, Conway BP. Aminoglycoside toxicity – a survey of retinal specialists. *Arch Ophthalmol* 1991;109:946–50.
- [184] Pflugfelder SC, Hernández E, Fliesler SJ, et al. Intravitreal vancomycin; retinal toxicity, clearance, and interaction with gentamicin. *Arch Ophthalmol* 1987;105:831–7.
- [185] Zachary IG, Forster RK. Experimental intravitreal gentamicin. *Am J Ophthalmol* 1976;82:604–11.
- [186] Oum BS, D’Amico DJ, Kwak HW, et al. Intravitreal antibiotic therapy with vancomycin and aminoglycoside: Examination of the retinal toxicity of repetitive injections after vitreous and lens surgery. *Graefes Arch Clin Exp Ophthalmol* 1992;30:56–61.
- [187] Peyman GA. Aminoglycoside toxicity. *Arch Ophthalmol* 1992;110:446.
- [188] Talamo JH, D’Amico DJ, Hanninen LA, et al. The influence of aphakia and vitrectomy on experimental retinal toxicity of aminoglycoside antibiotics. *Am J Ophthalmol* 1985;100:840–7.
- [189] D’Amico DJ, Caspers-Velu L, Libert J, et al. Comparative toxicity of intravitreal aminoglycoside antibiotics. *Am J Ophthalmol* 1985;100:264–75.
- [190] Cardascia N, Boscia F, Furino C, et al. Gentamicin-induced macular infarction in transconjunctival sutureless 25-gauge vitrectomy. *Int Ophthalmol* 2008;28:383–5.
- [191] D’Amico DJ, Libert J, Kenyon KR, et al. Retinal toxicity of intravitreal gentamicin; an electron microscopic study. *Invest Ophthalmol Vis Sci* 1984;25:564–72.
- [192] Brown GC, Eagle RC, Shakin EP, et al. Retinal toxicity of intravitreal gentamicin. *Arch Ophthalmol* 1990;108:1740–4.
- [193] Conway BP, Tabatabay CA, Campochiaro PA, et al. Gentamicin toxicity in the primate retina. *Arch Ophthalmol* 1989;107:107–12.
- [194] Hancock HA, Guidry C, Read RW, et al. Acute aminoglycoside retinal toxicity in vivo and in vitro. *Invest Ophthalmol Vis Sci* 2005;46:4804–8.
- [195] Waltz K, Margo CE. Intraocular gentamicin toxicity. *Arch Ophthalmol* 1991;109:911.
- [196] Guyer DR, Tiedeman J, Yannuzzi LA, et al. Interferon-associated retinopathy. *Arch Ophthalmol* 1993;111:350–6.
- [197] Ohira M, Ito D, Shimizu T, et al. Retinopathy: an overlooked adverse effect of interferon-beta treatment of multiple sclerosis. *Keio J Med* 2009;58:54–6.
- [198] Folden DV, Lee MS, Ryan Jr EH. Interferon beta-associated retinopathy in patients treated for multiple sclerosis. *Neurology* 2008;70:1153–5.
- [199] Saito H, Suzuki M, Asakawa T, et al. Retinopathy in a multiple sclerosis patient undergoing interferon-therapy. *Mult Scler* 2007;13:939–40.
- [200] Okuse C, Yotsuyanagi H, Nagase Y, et al. Risk factors for retinopathy associated with interferon alpha-2b and ribavirin combination therapy in patients with chronic hepatitis C. *World J Gastroenterol* 2006;12:3756–9.
- [201] Sugano S, Suzuki T, Watanabe M, et al. Retinal complications and plasma C5a levels during interferon alpha therapy for chronic hepatitis C. *Am J Gastroenterol* 1998;93:2441–4.
- [202] Shaw HEJR, Lawson JG, Stulting RD. Amaurosis fugax and retinal vasculitis associated with methamphetamine inhalation. *J Clin Neuro-Ophthalmol* 1985;5:169–76.
- [203] Wallace RT, Brown GC, Benson W, et al. Sudden retinal manifestations of intranasal cocaine and methamphetamine abuse. *Am J Ophthalmol* 1992;114:158–60.
- [204] Rahman W, Thomas S, Wiselka M, et al. Cocaine-induced chorioretinal infarction. *Br J Ophthalmol* 2008;92:150–1.
- [205] Zeiter JH, Corder DM, Madion MP, et al. Sudden retinal manifestations of intranasal cocaine and methamphetamine abuse. *Am J Ophthalmol* 1992;114:780–1.
- [206] Pinilla I, Abecia E, Borque E, et al. Cocaine-induced preretinal haemorrhage in a young adult. *Acta Ophthalmol Scand* 2007;85:343–4.
- [207] Michaelides M, Larkin G. Cocaine-associated central retinal artery occlusion in a young man. *Eye* 2002;16:790–2.
- [208] Sleiman I, Mangili R, Semeraro F, et al. Cocaine-associated retinal vascular occlusion: report of two cases. *Am J Med* 1994;97:198–9.
- [209] Wallace RT, Brown GC, Benson W, et al. Sudden retinal manifestations of intranasal cocaine and methamphetamine abuse. *Am J Ophthalmol* 1992;114:158–60.
- [210] Devenyi P, Schneiderman JF, Devenyi RG, et al. Cocaine-induced central retinal artery occlusion. *CMAJ* 1988;138:129–30.
- [211] Kumar RL, Kaiser PK, Lee MS. Crystalline retinopathy from nasal ingestion of methamphetamine. *Retina* 2006;26:823–4.
- [212] Leung IY, Lai S, Ren S, Kempen J, et al. Early retinal vascular abnormalities in African-American cocaine users. *Am J Ophthalmol* 2008;146:612–9.
- [213] Lincoff H, Zweifach P, Brodie S, et al. Intraocular injection of lidocaine. *Ophthalmology* 1985;92:1587–91.
- [214] Reddy S, Goldman DR, Hubschman J-P, et al. Cocaine and choroidal infarction. Revisiting the triangular sign of Amalric. [Report] *Retinal Cases and Brief Reports Winter* 2011;5(1):91–3.
- [215] Bacon P, Spalton DJ, Smith SE. Blindness from quinine toxicity. *Br J Ophthalmol* 1988;72:219–24.
- [216] Brinton GS, Norton EWD, Zahn JR, et al. Ocular quinine toxicity. *Am J Ophthalmol* 1980;90:403–10.
- [217] Canning CR, Hague S. Ocular quinine toxicity. *Br J Ophthalmol* 1988;72:23–6.
- [218] Gangitano JL, Keltner JL. Abnormalities of the pupil and visual-evoked potential in quinine amblyopia. *Am J Ophthalmol* 1980;89:425–30.
- [219] Danias J, Brodie S. Delayed quinine toxicity mimicking open angle glaucoma. *Br J Ophthalmol* 2001;85:245–6.
- [220] Lochhead J, Movaffaghy A, Falsini B, et al. The effect of quinine on the electroretinograms of children with pediatric cerebral malaria. *J Infect Dis* 2003;187:1342–5.
- [221] Caffi M, Rapizzi A. Sull’intossicazione sperimentale da chinino; ricerche sperimentali istologiche ed istochimiche sulla retina e sul nervo ottico di coniglio. *Minerva Oftalmol* 1966;8:65–8.
- [222] Casini F. Il metabolismo respiratorio della retina nell’intossicazione sperimentale da chinino. *Arch Ottalmol* 1939;46:263–79.
- [223] Knox DL, Palmer CAL, English F. Iris atrophy after quinine amblyopia. *Arch Ophthalmol* 1966;76:359–62.
- [224] Guly U, Driscoll P. The management of quinine-induced blindness. *Arch Emerg Med* 1992;9:317–22.
- [225] Benton Jr CD, Calhoun Jr FP. The ocular effects of methyl alcohol poisoning: report of a catastrophe involving 320 persons. *Am J Ophthalmol* 1953;36:1677–85.
- [226] Potts AM, Praglin J, Farkas I, et al. Studies on the visual toxicity of methanol. VIII. Additional observations on methanol poisoning in the primary test object. *Am J Ophthalmol* 1955;40:76–83.
- [227] Ruedemann Jr AD. The electroretinogram in chronic methyl alcohol poisoning in human beings. *Am J Ophthalmol* 1962;54:34–53.

- [228] Baumbach GL, Cancilla PA, Martin-Amat G, et al. Methyl alcohol poisoning. IV. Alterations of the morphological findings of the retina and optic nerve. *Arch Ophthalmol* 1977;95:1859-65.
- [229] Hayreh MS, Hayreh SS, Baumbach GL, et al. Methyl alcohol poisoning. III. Ocular toxicity. *Arch Ophthalmol* 1977;95:1851-8.
- [230] Martin-Amat G, Tephly TR, McMartin KE, et al. Methyl alcohol poisoning. II. Development of a model for ocular toxicity in methyl alcohol poisoning using the rhesus monkey. *Arch Ophthalmol* 1977;95:1847-50.
- [231] Fells JT, Murray TG, Lewandowski MF, et al. Methanol poisoning: clinical evidence of direct retinal dysfunction. *ARVO Abstracts. Invest Ophthalmol Vis Sci* 1991;32:689.
- [232] Murray TG, Burton TC, Rajani C, et al. Methanol poisoning; a rodent model with structural and functional evidence for retinal involvement. *Arch Ophthalmol* 1991;109:1012-6.
- [233] Querques G, Prascina F, Iaculli C, et al. Intravitreal pegaptanib sodium (Macugen) for radiation retinopathy following episcleral plaque radiotherapy. *Acta Ophthalmol* 2008;86:700-1.
- [234] Tokuda K, Zorunski CF, Izumi Y. Involvement of illumination in indocyanine green toxicity after its washout in the ex vivo rat retina. *Retina* 2009;29:371-9.
- [235] Narayanan R, Kenney MC, Kamjoo S, et al. Toxicity of indocyanine green (ICG) in combination with light on retinal pigment epithelial cells and neurosensory retinal cells. *Curr Eye Res* 2005;30:471-8.
- [236] Rodrigues EB, Meyer CH, Mennel S, et al. Mechanisms of intravitreal toxicity of indocyanine green dye: implications for chromovitrectomy. *Retina* 2007;27:958-70.
- [237] Haritoglou C, Kreutzer T, Tadayoni R, et al. Staining and peeling of the internal limiting membrane using a fluorescent dye (Rhodamine 6 G). *Br J Ophthalmol* 2008;92:1265-8.
- [238] Smith SV, Benz MS, Brown DM. Cystoid macular edema secondary to albumin-bound paclitaxel therapy. *Arch Ophthalmol* 2008;126:1605-6.
- [239] Joshi MM, Garretson BR. Paclitaxel maculopathy. *Arch Ophthalmol* 2007;125:709-10.
- [240] Teitelbaum BA, Tresley DJ. Cystoid maculopathy with normal capillary permeability secondary to docetaxel. *Optom Vis Sci* 2003;80:277-9.
- [241] Hofstra LS, de Vries EG, Willemse PH. Ophthalmic toxicity following paclitaxel infusion. *Ann Oncol* 1997;8:1053.
- [242] Georgalas I, Pavesio C, Ezra E. Bilateral cystoid macular edema in a patient with chronic myeloid leukaemia under treatment with imatinib mesylate: report of an unusual side effect. *Graefes Arch Clin Exp Ophthalmol* 2007;245:1585-6.
- [243] Masood I, Negi A, Dua HS. Imatinib as a cause of cystoid macular edema following uneventful phacoemulsification surgery. *J Cataract Refract Surg* 2005;31:2427-8.
- [244] Fraunfelder FW, Solomon J, Druker BJ, et al. Ocular side-effects associated with imatinib mesylate (Gleevec). *J Ocul Pharmacol Ther* 2003;19:371-5.
- [245] Mudaliar S, Chang AR, Henry RR. Thiazolidinediones peripheral edema, and type 2 diabetes: incidence, pathophysiology, and clinical implications. *Endocr Pract* 2003;9:406-16.
- [246] Fong DS, Contreras R. Glitazone use associated with diabetic macular edema. *Am J Ophthalmol* 2009;147:583-6.
- [247] Liazos E, Broadbent DM, Beare N, et al. Spontaneous resolution of diabetic macular oedema after discontinuation of thiazolidinediones. *Diabet Med* 2008;25:860-2.
- [248] Ryan Jr EH, Han DP, Ramsay RC, et al. Diabetic macular edema associated with glitazone use. *Retina* 2006;26:562-70.
- [249] Labriola LT, Friberg TR, Hein A. Marathon runner's retinopathy. *Semin Ophthalmol* 2009;24:247-50.
- [250] Gaudard A, Varlet-Marie E, Monnier JF, et al. Exercise-induced central retinal vein thrombosis: possible involvement of hemorheological disturbances. A case report. *Clin Hemorheol Microcirc* 2002;27:115-22.
- [251] Rennie D, Morrissey J. Retinal changes in Himalayan climbers. *Arch Ophthalmol* 1975;93:395-400.
- [252] Shults WT, Swan KC. High altitude retinopathy in mountain climbers. *Arch Ophthalmol* 1975;93:404-8.
- [253] Wiedman M. High altitude retinal hemorrhage. *Arch Ophthalmol* 1975;93:401-3.
- [254] Lubin JR, Rennie D, Hackett P, et al. High altitude retinal hemorrhage: a clinical and pathological case report. *Ann Ophthalmol* 1982;14:1071-6.
- [255] Wiedman M. High altitude retinal hemorrhage. *Arch Ophthalmol* 1975;93:401-3.
- [256] Chang B, Nolan H, Mooney D. High-altitude flight retinopathy. *Eye* 2004;18:653-6.
- [257] Wiedman M, Tabin GC. High-altitude retinopathy and altitude illness. *Ophthalmology* 1999;106:1924-6. [discussion 1927.]
- [258] Bandyopadhyay S, Singh R, Gupta V, et al. Anterior ischaemic optic neuropathy at high altitude. *Indian J Ophthalmol* 2002;50:324-5.
- [259] Mohsin N, Nooyi C, Jha A, et al. Retinal injury as an early manifestation of posttransplant thrombotic microangiopathy: recovery with plasma exchanges and conversion to sirolimus - case report and review of the literature. *Transplant Proc* 2007;39:1272-5.
- [260] Garrett SN, Kearney JJ, Schiffman JS. Amiodarone optic neuropathy. *J Clin Neuro-Ophthalmol* 1988;8:105-10.
- [261] Gittinger Jr JW, Asdourian GK. Papillopathy caused by amiodarone. *Arch Ophthalmol* 1987;105:349-51.
- [262] Nazarian SM, Jay WM. Bilateral optic neuropathy associated with amiodarone therapy. *J Clin Neuro-Ophthalmol* 1988;8:25-8.
- [263] Younge BR. Amiodarone optic neuropathy. *J Clin Neuro-Ophthalmol* 1988;8:29.
- [264] Thystrup JD, Fledelius HC. Retinal maculopathy possibly associated with amiodarone medication. *Acta Ophthalmol (Copenh)* 1994;72:639-41.
- [265] Fraunfelder FW, Fraunfelder FT. Central serous chorioretinopathy associated with sildenafil. *Retina* 2008;28:606-9.
- [266] Quiram P, Dumars S, Parwar B, et al. Viagra-associated serous macular detachment. *Graefes Arch Clin Exp Ophthalmol* 2005;243:339-44.
- [267] Allibhai ZA, Gale JS, Sheidow TS. Central serous chorioretinopathy in a patient taking sildenafil citrate. *Ophthalmic Surg Lasers Imaging* 2004;35:165-7.
- [268] Grunwald JE, Siu KK, Jacob SS, et al. Effect of sildenafil citrate (Viagra) on the ocular circulation. *Am J Ophthalmol* 2001;131:751-5.
- [269] Oguz H. Sildenafil-associated vascular CASUALTIES. *Eye (Lond)* 2007;21:676-7. [author reply 677-8.]
- [270] Tripathi A, O'Donnell NP. Branch retinal artery occlusion; another complication of sildenafil. *Br J Ophthalmol* 2000;84:934-5.
- [271] Marmor MF, Kessler R. Sildenafil (Viagra) and ophthalmology. *Surv Ophthalmol* 1999;44:153-62.
- [272] Kersten AJ, Althaus C, Best J, et al. Cystoid macular edema following immune recovery and treatment with cidofovir for cytomegalovirus retinitis. *Graefes Arch Clin Exp Ophthalmol* 1999;237:893-6.
- [273] Awotesu O, Missotten T, Pitcher MC, et al. Uveitis in a patient receiving rifabutin for Crohn's disease. *J R Soc Med* 2004;97:440-1.
- [274] Schimkat M, Althaus C, Becker K, et al. Rifabutin-associated anterior uveitis in patients infected with human immunodeficiency virus. *Ger J Ophthalmol* 1996;5:195-201.

- [275] Lowe SH, Kroon FP, Bollemeyer JG, et al. Uveitis during treatment of disseminated Mycobacterium avium-intracellulare complex infection with the combination of rifabutin, clarithromycin and ethambutol. *Neth J Med* 1996;48:211–5.
- [276] Chaknis MJ, Brooks SE, Mitchell KT, et al. Inflammatory opacities of the vitreous in rifabutin-associated uveitis. *Am J Ophthalmol* 1996;122:580–2.
- [277] Rifai A, Peyman GA, Daun M, et al. Rifabutin-associated uveitis during prophylaxis for Mycobacterium avium complex infection. *Arch Ophthalmol* 1995;113:707.
- [278] Shafran SD, Singer J, Zarowny DP, et al. Determinants of rifabutin-associated uveitis in patients treated with rifabutin, clarithromycin, and ethambutol for Mycobacterium avium complex bacteremia: a multivariate analysis. *Canadian HIV Trials Network Protocol 010 Study Group. J Infect Dis* 1998;177:252–5.
- [279] Skolik S, Willermain F, Caspers LE. Rifabutin-associated panuveitis with retinal vasculitis in pulmonary tuberculosis. *Ocul Immunol Inflamm* 2005;13:483–5.
- [280] Haider D, Dhawahir-Scala FE, Strouthidis NG, et al. Acute panuveitis with hypopyon in Crohn's disease secondary to medical therapy: a case report. *J Med Case Reports* 2007;1:42.
- [281] Smith JA, Mueller BU, Nussenblatt RB, et al. Corneal endothelial deposits in children positive for human immunodeficiency virus receiving rifabutin prophylaxis for Mycobacterium avium complex bacteremia. *Am J Ophthalmol* 1999;127:164–9.
- [282] Vaudaux JD, Guex-Crosier Y. Rifabutin-induced cystoid macular oedema. *J Antimicrob Chemother* 2002;49:421–2.
- [283] Myers AC, Kjellstrom S, Bruun A, et al. Rifabutin accumulates in the lens and reduces retinal function in the rabbit eye. *Retina* 2009;29:106–11.
- [284] Kelleher P, Helbert M, Sweeney J, et al. Uveitis associated with rifabutin and macrolide therapy for Mycobacterium avium intracellulare infection in AIDS patients. *Genitourin Med* 1996;72:419–21.
- [285] Malmgren K, Ben-Menachem E, Frisen L. Vigabatrin visual toxicity: evolution and dose dependence. *Epilepsia* 2001;42:609–15.
- [286] Durbin S, Mirabella G, Buncic JR, et al. Reduced grating acuity associated with retinal toxicity in children with infantile spasms on vigabatrin therapy. *Invest Ophthalmol Vis Sci* 2009;50:4011–6.
- [287] Kinirons P, Cavalleri GL, O'Rourke D, et al. Vigabatrin retinopathy in an Irish cohort: lack of correlation with dose. *Epilepsia* 2006;47:311–7.
- [288] Rebolleda G, Garcia Perez JL, Munoz Negrete FJ, et al. Vigabatrin toxicity in children. *Ophthalmology* 2005;112:1322–3.
- [289] Best JL, Acheson JF. The natural history of Vigabatrin associated visual field defects in patients electing to continue their medication. *Eye* 2005;19:41–4.
- [290] Buncic JR, Westall CA, Panton CM, et al. Characteristic retinal atrophy with secondary "inverse" optic atrophy identifies vigabatrin toxicity in children. *Ophthalmology* 2004;111:1935–42.
- [291] Frisen L, Malmgren K. Characterization of vigabatrin-associated optic atrophy. *Acta Ophthalmol Scand* 2003;81:466–73.
- [292] Lawthom C, Smith PE, Wild JM. Nasal retinal nerve fiber layer attenuation: a biomarker for vigabatrin toxicity. *Ophthalmology* 2009;116:565–71.
- [293] Dempsey LC, O'Donnell JJ, Hoff JT. Carbon monoxide retinopathy. *Am J Ophthalmol* 1976;82:692–3.
- [294] Ferguson LS, Burke MJ, Choromokos EA. Carbon monoxide retinopathy. *Arch Ophthalmol* 1985;103:66–7.
- [295] Kelley JS, Sophocleus GJ. Retinal hemorrhages in subacute carbon monoxide poisoning; exposures in homes with blocked furnace flues. *JAMA* 1978;239:1515–7.
- [296] Murray WR. Amblyopia caused by inhalation of carbon monoxide gas. *Minn Med* 1926;9:561–4.
- [297] von Restorff W, Heibisch S. Dark adaptation of the eye during carbon monoxide exposure in smokers and nonsmokers. *Aviat Space Environ Med* 1988;59:928–31.
- [298] Burns CA. Indomethacin, reduced retinal sensitivity, and corneal deposits. *Am J Ophthalmol* 1968;66:825–35.
- [299] Graham CM, Blach RK. Indomethacin retinopathy: case report and review. *Br J Ophthalmol* 1988;72:434–8.
- [300] Henkes HE, van Lith GHM, Canta LR. Indomethacin retinopathy. *Am J Ophthalmol* 1972;73:846–56.
- [301] Chuman MA, LeSage J. Color vision deficiencies in two cases of digoxin toxicity. *Am J Ophthalmol* 1985;100:682–5.
- [302] Robertson DM, Hollenhorst RW, Callahan JA. Receptor function in digitalis therapy. *Arch Ophthalmol* 1966;76:852–7.
- [303] Weleber RG, Shults WT. Digoxin retinal toxicity; clinical and electrophysiologic evaluation of a cone dysfunction syndrome. *Arch Ophthalmol* 1981;99:1568–72.
- [304] Lawrenson JG, Kelly C, Lawrenson AL, et al. Acquired colour vision deficiency in patients receiving digoxin maintenance therapy. *Br J Ophthalmol* 2002;86:1259–61.
- [305] Creel DJ, Wang JM, Wong KC. Transient blindness associated with transurethral resection of the prostate. *Arch Ophthalmol* 1987;105:1537–9.
- [306] Propst AM, Liberman RF, Harlow BL, et al. Complications of hysteroscopic surgery: predicting patients at risk. *Obstet Gynecol* 2000;96:517–20.
- [307] Taskin O, Buhur A, Birincioglu M, et al. Endometrial Na<sup>+</sup>, K<sup>+</sup>-ATPase pump function and vasopressin levels during hysteroscopic surgery in patients pretreated with GnRH agonist. *J Am Assoc Gynecol Laparosc* 1998;5:119–24.
- [308] Taskin O, Yalcinoglu A, Kucuk S, et al. The degree of fluid absorption during hysteroscopic surgery in patients pretreated with goserelin. *J Am Assoc Gynecol Laparosc* 1996;3:555–9.
- [309] Fraser IS, Angsuwathana S, Mahmoud F, et al. Short and medium term outcomes after rollerball endometrial ablation for menorrhagia. *Med J Aust* 1993;158:454–7.
- [310] Osborne GA, Rudkin GE, Moran P. Fluid uptake in laser endometrial ablation. *Anaesth Intensive Care* 1991;19:217–9.
- [311] Colucci A, Modorati G, Miserocchi E, et al. Anterior uveitis complicating zoledronic acid infusion. *Ocul Immunol Inflamm* 2009;17:267–8.
- [312] Sharma NS, Ooi JL, Masselos K, et al. Zoledronic acid infusion and orbital inflammatory disease. *N Engl J Med* 2008;359:1410–1.
- [313] Kilickap S, Ozdamar Y, Altundag MK, et al. A case report: zoledronic acid-induced anterior uveitis. *Med Oncol* 2008;25:238–40.
- [314] Santaella RM, Fraunfelder FW. Ocular adverse effects associated with systemic medications: recognition and management. *Drugs* 2007;67:75–93.
- [315] Gilhotra JS, Gilhotra AK, Holdaway IM, et al. Acute retinal pigment epitheliitis associated with intravenous bisphosphonate. *Br J Ophthalmol* 2006;90:798–9.
- [316] Benderson D, Karakunnel J, Kathuria S, et al. Scleritis complicating zoledronic acid infusion. *Clin Lymphoma Myeloma* 2006;7:145–7.
- [317] El Saghir NS, Otrick ZK, Bleik JH. Unilateral anterior uveitis complicating zoledronic acid therapy in breast cancer. *BMC Cancer* 2005;5:156.
- [318] Durnian JM, Olujohungbe A, Kyle G. Bilateral acute uveitis and conjunctivitis after zoledronic acid therapy. *Eye* 2005;19:221–2.
- [319] Ding X, Herzlich AA, Bishop R, et al. Ocular toxicity



- of fludarabine: a purine analog. *Expert Rev Ophthalmol* 2008;3:97-109.
- [320] Bowyer JD, Johnson EM, Horn EH, et al. Ochoconis gallopava endophthalmitis in fludarabine treated chronic lymphocytic leukaemia. *Br J Ophthalmol* 2000;84:117.
- [321] Banach MJ, Williams GA. Purtscher retinopathy and necrotizing vasculitis with gemcitabine therapy. *Arch Ophthalmol* 2000;118:726-7.
- [322] Mahesh G, Giridhar A, Saikumar SJ, et al. Drug-induced acute myopia following chlorthalidone treatment. *Indian J Ophthalmol* 2007;55:386-8.
- [323] D'Alena P, Robinson M. Hygroton-induced myopia. *Calif Med* 1969;110:134-5.
- [324] Ericson LA. Hygroton-induced myopia and retinal edema. *Acta Ophthalmol (Copenh)* 1963;41:538-43.
- [325] Zalta AH, Smith RT. Peripheral iridoplasty efficacy in refractory topiramate-associated bilateral acute angle-closure glaucoma. *Arch Ophthalmol* 2008;126:1603-5.
- [326] Parikh R, Parikh S, Das S, et al. Choroidal drainage in the management of acute angle closure after topiramate toxicity. *J Glaucoma* 2007;16:691-3.
- [327] Sachi D, Vijaya L. Topiramate induced secondary angle closure glaucoma. *J Postgrad Med* 2006;52:72-3.
- [328] Sankar PS, Pasquale LR, Grosskreutz CL. Uveal effusion and secondary angle-closure glaucoma associated with topiramate use. *Arch Ophthalmol* 2001;119:1210-1.
- [329] Rhee DJ, Goldberg MJ, Parrish RK. Bilateral angle-closure glaucoma and ciliary body swelling from topiramate. *Arch Ophthalmol* 2001;119:1721-3.
- [330] Banta JT, Hoffman K, Budenz DL, et al. Presumed topiramate-induced bilateral acute angle-closure glaucoma. *Am J Ophthalmol* 2001;132:112-4.

## 第 10 章

- [1] Packer AJ, Weingeist TA, Abrams GW. Retinal periphlebitis as an early sign of bacterial endophthalmitis. *Am J Ophthalmol* 1983;96:66-71.
- [2] Blodi BA, Johnson MW, McLeish WM, Gass JD. Presumed choroidal tuberculosis in a human immunodeficiency virus infected host. *Am J Ophthalmol* 1989;108:605-7.
- [3] Herschorn BJ, Brucker AJ. Embolic retinopathy due to *Corynebacterium minutissimum* endocarditis. *Br J Ophthalmol* 1985;69:29-31.
- [4] Kennedy JE, Wise GN. Clinicopathological correlation of retinal lesions; subacute bacterial endocarditis. *Arch Ophthalmol* 1965;74:658-62.
- [5] Litten M. Ueber die bei der acuten malignen Endocarditis und anderen septischen Erkrankungen vorkommenden Retinalveränderungen. *Ber Ophthalmol Ges* 1877;10:140-3.
- [6] Munier F, Othenin-Girard P. Subretinal neovascularization secondary to choroidal septic metastasis from acute bacterial endocarditis. *Retina* 1992;12:108-12.
- [7] Neudorfer M, Barnea Y, Geyer O, Siegman-Igra Y. Retinal lesions in septicemia. *Am J Ophthalmol* 1993;116:728-34.
- [8] Roth M. Beiträge zur Kenntniss der varicösen Hypertrophie der Nervenfasern. *Arch Pathol Anat Physiol* 1872;55:197-217.
- [9] Roth M. Ueber Netzhautaffection bei Wundfebern. *Dtsch Z Chir* 1872;1:471.
- [10] Duane TD, Osher RH, Green WR. White centered hemorrhages: their significance. *Ophthalmology* 1980;87:66-9.
- [11] Hussain B, Lynn W, Lightman SL. Metastatic endophthalmitis. *Br J Hosp Med (Lond)* 2007;68:424-8.
- [12] Davis JL, Nussenblatt RB, Bachman DM, et al. Endogenous bacterial retinitis in AIDS. *Am J Ophthalmol* 1989;107:613-23.
- [13] Coll GE, Lewis H. Metastatic choroidal abscess and choroidal neovascular membrane associated with *Staphylococcus aureus* endocarditis in a heroin user. *Retina* 1994;14:256-9.
- [14] Carney MD, Combs JL, Waschler W. Cryptococcal choroiditis. *Retina* 1990;10:27-32.
- [15] Kim JE, Landon RE, Connor Jr TB, Kivlin JD. Endogenous ocular nocardiosis. *J AAPOS* 2004;8:194-5.
- [16] Bozbeyoglu S, Yilmaz G, Akova YA, et al. Choroidal abscess due to nocardial infection in a renal allograft recipient. *Retina* 2004;24:164-6.
- [17] Lakosha H, Pavlin CJ, Lipton J. Subretinal abscess due to *Nocardia farcinica* infection. *Retina* 2000;20:269-74.
- [18] Davitt B, Gehrs K, Bowers T. Endogenous *Nocardia* endophthalmitis. *Retina* 1998;18:71-3.
- [19] Ferry AP, Font RL, Weinberg RS, et al. Nocardial endophthalmitis: report of two cases studied histopathologically. *Br J Ophthalmol* 1988;72:55-61.
- [20] Gregor RJ, Chong CA, Augsburger JJ, et al. Endogenous *Nocardia asteroides* subretinal abscess diagnosed by transvitreal fine-needle aspiration biopsy. *Retina* 1989;9:118-21.
- [21] Ishibashi Y, Watanabe R, Hommura S, et al. Endogenous *Nocardia asteroides* endophthalmitis in a patient with systemic lupus erythematosus. *Br J Ophthalmol* 1990;74:433-6.
- [22] Jampol LM, Strauch BS, Albert DM. Intraocular nocardiosis. *Am J Ophthalmol* 1973;76:568-73.
- [23] Lissner GS, O'Grady R, Choromokos E. Endogenous intraocular *Nocardia asteroides* in Hodgkin's disease. *Am J Ophthalmol* 1978;86:388-94.
- [24] Meyer SL, Font RL, Shaver RP. Intraocular nocardiosis; report of three cases. *Arch Ophthalmol* 1970;83:536-41.
- [25] Phillips WB, Shields CL, Shields JA, et al. *Nocardia* choroidal abscess. *Br J Ophthalmol* 1992;76:694-6.
- [26] Sher NA, Hill CW, Eifrig DE. Bilateral intraocular *Nocardia asteroides* infection. *Arch Ophthalmol* 1977;95:1415-8.
- [27] Naik S, Mateo-Bibeau R, Shinnar M, et al. Successful treatment of *Nocardia nova* bacteremia and multilobar pneumonia with clarithromycin in a heart transplant patient. *Transplant Proc* 2007;39:1720-2.
- [28] Bonifaz A, Flores P, Saul A, Carrasco-Gerard E, Ponce RM. Treatment of actinomycetoma due to *Nocardia* spp. with amoxicillin-clavulanate. *Br J Dermatol* 2007;156:308-11.
- [29] Dalton MJ, Robinson LE, Cooper J, et al. Use of Bartonella antigens for serologic diagnosis of cat-scratch disease at a national referral center. *Arch Intern Med* 1995;155:1670-6.
- [30] Wear DJ, Margileth AM, Hadfield TL, et al. Cat scratch disease: a bacterial infection. *Science* 1983;221:1403-5.
- [31] Fish RH, Hogan RN, Nightingale SD, Anand R. Peripapillary angiomas associated with cat-scratch neuroretinitis. *Arch Ophthalmol* 1992;110:323.
- [32] Schlossberg D, Morad Y, Krouse TB, et al. Culture-proved

- disseminated cat-scratch disease in acquired immunodeficiency syndrome. *Arch Intern Med* 1989;149:1437-9.
- [32a] Ormerod, Skolnick, et al. 1998.
- [32b] Solley, Martin, et al. 1999.
- [32c] Eggenberger. 2000.
- [32] Chang, Lee, et al. 2001.
- [33] Bar S, Segal M, Shapira R, Savir S. Neuroretinitis associated with cat scratch disease. *Am J Ophthalmol* 1990;110:703-5.
- [34] Carithers HA, Margileth AM. Cat-scratch disease; acute encephalopathy and other neurologic manifestations. *Am J Dis Child* 1991;145:98-101.
- [35] Chrousos GA, Drack AV, Young M, et al. Neuroretinitis in cat scratch disease. *J Clin Neuro-Ophthalmol* 1990;10:92-4.
- [36] Gass JDM. Stereoscopic atlas of macular diseases: diagnosis and treatment, 2nd ed. St Louis: CV Mosby; 1977. p. 376.
- [37] Gass JDM. Stereoscopic atlas of macular diseases: diagnosis and treatment, 3rd ed. St Louis: CV Mosby; 1987. p. 746-51.
- [38] Golnik KC, Marotto ME, Fanous MM, et al. Ophthalmic manifestations of *Rochalimaea* species. *Am J Ophthalmol* 1994;118:145-51.
- [39] Ulrich GG, Waecker Jr NJ, Meister SJ, et al. Cat scratch disease associated with neuroretinitis in a 6-year-old girl. *Ophthalmology* 1992;99:246-9.
- [40] Weiss AH, Beck RW. Neuroretinitis in childhood. *J Pediatr Ophthalmol Strabismus* 1989;26:198-203.
- [41] Angritt P, Tuur SM, Macher AM, et al. Epithelioid angiomatosis in HIV infection: neoplasm or cat-scratch disease? *Lancet* 1988;1:996.
- [42] Berguiga M, Abouzeid H, Bart PA, Guex-Crosier Y. Severe occlusive vasculitis as a complication of cat scratch disease. *Klin Monatsbl Augenheilkd* 2008;225:486-7.
- [43] Ziemssen F, Bartz-Schmidt KU, Gelisken F. Secondary unilateral glaucoma and neuroretinitis: atypical manifestation of cat-scratch disease. *Jpn J Ophthalmol* 2006;50:177-9.
- [44] Mason III JO. Retinal and optic nerve neovascularization associated with cat scratch neuroretinitis. *Retina* 2004;24:176-8.
- [45] Grossniklaus HE. The cat scratch disease-bacillary angiomatosis puzzle. *Am J Ophthalmol* 1994;118:246-8.
- [46] LeBoit PE, Berger TG, Egbert BM, et al. Epithelioid haemangioma-like vascular proliferation in AIDS: manifestation of cat scratch disease or bacillus infection? *Lancet* 1988;1:960-3.
- [47] Stoler MH, Bonfiglio TA, Steigbigel RT, Pereira M. An atypical subcutaneous infection associated with acquired immune deficiency syndrome. *Am J Clin Pathol* 1983;80:714-8.
- [48] Sauer A, Hansmann Y, Jaulhac B, et al. Five cases of paralytic strabismus as a rare feature of Lyme disease. *Clin Infect Dis* 2009;48:756-9.
- [48a] Mikkila, Seppala, et al. 2000.
- [48b] Rothermel, Hedges, et al. 2001.
- [48c] Krist, Wenkel, 2002.
- [49] Aaberg TM. The expanding ophthalmologic spectrum of Lyme disease. *Am J Ophthalmol* 1989;107:77-80.
- [50] Berglöff J, Gasser R, Feigl B. Ophthalmic manifestations of Lyme borreliosis: a review. *J Neuro-Ophthalmol* 1994;14:15-20.
- [51] Bialasiewicz AA, Ruprecht KW, Naumann GOH, Blenk H. Bilateral diffuse choroiditis and exudative retinal detachments with evidence of Lyme disease. *Am J Ophthalmol* 1988;105:419-20.
- [52] Breeveld J, Rothova A, Kuiper H. Intermediate uveitis and Lyme borreliosis. *Br J Ophthalmol* 1992;76:181-2.
- [53] Jacobson DM, Frens DB. Pseudotumor cerebri syndrome associated with Lyme disease. *Am J Ophthalmol* 1989;107:81-2.
- [54] Lesser RL, Kornmehl EW, Pachner AR, et al. Neuro-ophthalmologic manifestations of Lyme disease. *Ophthalmology* 1990;97:699-706.
- [55] Schönherr U, Lang GE, Meythaler FH. Bilaterale Lebersche Neuroretinitis stellata bei *Borrelia burgdorferi*-Serokonversion. *Klin Monatsbl Augenheilkd* 1991;198:44-7.
- [56] Smith JL, Crumpton BC, Hummer J. The Bascom Palmer Eye Institute Lyme/syphilis survey. *J Clin Neuro-Ophthalmol* 1990;10:255-60.
- [57] Smith JL, Parsons TM, Paris-Hamlin AJ, Porschen RK. The prevalence of Lyme disease in a nonendemic area: a comparative serologic study in a south Florida eye clinic population. *J Clin Neuro-Ophthalmol* 1989;9:148-55.
- [58] Smith JL, Winward KE, Nicholson DF, Albert DW. Retinal vasculitis in Lyme borreliosis. *J Clin Neuro-Ophthalmol* 1991;11:7-15.
- [59] Suttrop-Schulten MSA, Luyendijk L, van Dam AP, et al. Birdshot chorioretinopathy and Lyme borreliosis. *Am J Ophthalmol* 1993;115:149-53.
- [60] Winward KE, Smith JL, Culbertson WW, Paris-Hamelin A. Ocular Lyme borreliosis. *Am J Ophthalmol* 1989;108:651-7.
- [61] Rathinam SR. Ocular manifestations of leptospirosis. *J Postgrad Med* 2005;51:189-94.
- [62] Rathinam SR. Ocular leptospirosis. *Curr Opin Ophthalmol* 2002;13:381-6.
- [63] Rathinam SR, Cunningham Jr ET. Infectious causes of uveitis in the developing world. *Int Ophthalmol Clin* 2000;40:137-52.
- [64] Martins MG, Matos KT, da Silva MV, de Abreu MT. Ocular manifestations in the acute phase of leptospirosis. *Ocul Immunol Inflamm* 1998;6:75-9.
- [65] Rathinam SR, Rathnam S, Selvaraj S, et al. Uveitis associated with an epidemic outbreak of leptospirosis. *Am J Ophthalmol* 1997;124:71-9.
- [66] Bal AM. Unusual clinical manifestations of leptospirosis. *J Postgrad Med* 2005;51:179-83.
- [67] Chu KM, Rathinam R, Namperumalsamy P, Dean D. Identification of *Leptospira* species in the pathogenesis of uveitis and determination of clinical ocular characteristics in south India. *J Infect Dis* 1998;177:1314-21.
- [68] Mancel E, Merien F, Pesenti L, et al. Clinical aspects of ocular leptospirosis in New Caledonia (South Pacific). *Aust N Z J Ophthalmol* 1999;27:380-6.
- [69] Priya CG, Bhavani K, Rathinam SR, Muthukkaruppan VR. Identification and evaluation of LPS antigen for serodiagnosis of uveitis associated with leptospirosis. *J Med Microbiol* 2003;52(Pt 8):667-73.
- [70] Rathinam SR, Namperumalsamy P. Leptospirosis. *Ocul Immunol Inflamm* 1999;7:109-18.
- [71] Kranias G, Schneider D, Raymond LA. A case of syphilitic uveitis. *Am J Ophthalmol* 1981;91:261-3.
- [72] Moore JE. Syphilitic iritis; a study of 249 patients. *Am J Ophthalmol* 1931;14:110-22.
- [73] Song JH, Hong YT, Kwon OW. Acute syphilitic posterior placoid chorioretinitis following intravitreal triamcinolone acetonide injection. *Graefes Arch Clin Exp Ophthalmol* 2008;246:1775-8.
- [74] Dodds EM, Lowder CY, Boskovich SA, Longworth DL, Foster RE. Simultaneous syphilitic necrotizing retinitis and placoid chorioretinitis in acquired immune deficiency syndrome. *Retina* 1995;15:354-6.
- [75] Gass JD, Braunstein RA, Chenoweth RG. Acute syphilitic posterior placoid chorioretinitis. *Ophthalmology* 1990;97:1288-97.
- [76] Arruga J, Valentines J, Mauri F, et al. Neuroretinitis in acquired syphilis. *Ophthalmology* 1985;92:262-70.
- [77] de Souza EC, Jalkh AE, Trempe CL, et al. Unusual central chorioretinitis as the first manifestation of early secondary syphilis. *Am J Ophthalmol* 1988;105:271-6.
- [78] Duke-Elder S, Dobree JH. Diseases of the retina. System of

- ophthalmology. St Louis: CV Mosby; 1967. p. 52, 72, 100, 221, 530.
- [79] Friberg TR. Photo essay. Syphilitic chorioretinitis. *Arch Ophthalmol* 1989;107:1676-7.
- [80] Gass JDM, Braunstein RA, Chenoweth RG. Acute syphilitic posterior placoid chorioretinitis. *Ophthalmology* 1990;97:1288-97.
- [81] Morgan CM, Webb RM, O'Connor GR. Atypical syphilitic chorioretinitis and vasculitis. *Retina* 1984;4:225-31.
- [82] Schlaegel Jr TF, Kao SF. A review (1970-1980) of 28 presumptive cases of syphilitic uveitis. *Am J Ophthalmol* 1982;93:412-4.
- [83] Shimuzu R, Numaga T, Kimura Y, Horiuchi T. Acute syphilitic retinochoroiditis. *Jpn J Clin Ophthalmol* 1989;43:13-19.
- [84] Walsh FB, Hoyt WF. *Clinical neuro-ophthalmology*, 3rd ed. Baltimore: Williams and Wilkins; 1969. p. 1551.
- [85] Yagasaki T, Akiyama K, Nomura H, Awaya S. Two cases of acquired syphilis with acute central chorioretinitis as initial manifestation. *Jpn J Ophthalmol* 1992;36:301-9.
- [86] Lobes Jr LA, Folk JC. Syphilitic phlebitis simulating branch vein occlusion. *Ann Ophthalmol* 1981;13:825-7.
- [87] Reddy S, Cunningham Jr ET, Spaide RF. Syphilitic retinitis with focal inflammatory accumulations. *Ophthalmic Surg Lasers Imaging* 2006;37:429-31.
- [88] Cunningham Jr ET, Schatz H, McDonald HR, Johnson RN. Acute multifocal retinitis. *Am J Ophthalmol* 1997;123:347-57.
- [89] Mendelsohn AD, Jampol LM. Syphilitic retinitis; a cause of necrotizing retinitis. *Retina* 1984;4:221-4.
- [90] DeLuise VP, Clark III SW, Smith JL, Collart P. Syphilitic retinal detachment and uveal effusion. *Am J Ophthalmol* 1982;94:757-61.
- [91] Halperin LS, Lewis H, Blumenkranz MS, et al. Choroidal neovascular membrane and other chorioretinal complications of acquired syphilis. *Am J Ophthalmol* 1989;108:554-62.
- [92] Levy JH, Liss RA, Maguire AM. Neurosyphilis and ocular syphilis in patients with concurrent human immunodeficiency virus infection. *Retina* 1989;9:175-80.
- [93] McLeish WM, Pulido JS, Holland S, et al. The ocular manifestations of syphilis in the human immunodeficiency virus type 1-infected host. *Ophthalmology* 1990;97:196-203.
- [94] Passo MS, Rosenbaum JT. Ocular syphilis in patients with human immunodeficiency virus infection. *Am J Ophthalmol* 1988;106:1-6.
- [95] Stoumbos VD, Klein ML. Syphilitic retinitis in a patient with acquired immunodeficiency syndrome-related complex. *Am J Ophthalmol* 1987;103:103-4.
- [96] Wickremasinghe S, Ling C, Stawell R, et al. Syphilitic punctate inner retinitis in immunocompetent gay men. *Ophthalmology* 2009;116:1195-200.
- [97] Huang C, Park S, Castellarin AA, et al. Diagnostic and therapeutic challenges. *Retina* 2007;27:385-90.
- [98] Doris JP, Saha K, Jones NP, Sukthankar A. Ocular syphilis: the new epidemic. *Eye* 2006;20:703-5.
- [99] Belin MW, Baltch AL, Hay PB. Secondary syphilitic uveitis. *Am J Ophthalmol* 1981;92:210-4.
- [100] Crouch Jr ER, Goldberg MF. Retinal periarteritis secondary to syphilis. *Arch Ophthalmol* 1975;93:384-7.
- [101] Duke-Elder S, Perkins ES. *Diseases of the uveal tract System of ophthalmology*. St Louis: CV Mosby; 1966. p. 292.
- [102] Halperin LS, Berger AS, Grand MG. Photoessay. Syphilitic disc edema and periphlebitis. *Retina* 1990;10:223-5.
- [103] Savir H, Kurz O. Fluorescein angiography in syphilitic retinal vasculitis. *Ann Ophthalmol* 1976;8:713-6.
- [104] Folk JC, Weingeist TA, Corbett JJ, et al. Syphilitic neuroretinitis. *Am J Ophthalmol* 1983;95:480-6.
- [105] Saari M. Disciform detachment of the macula. III. Secondary to inflammatory diseases. *Acta Ophthalmol* 1978;56:510-7.
- [106] Krishnamurthy R, Cunningham Jr ET. Atypical presentation of syphilitic uveitis associated with Kyrieleis plaques. *Br J Ophthalmol* 2008;92:1152-3.
- [107] Sacks JG, Osher RH, Elconin H. Progressive visual loss in syphilitic optic atrophy. *J Clin Neuro-Ophthalmol* 1983;3:5-8.
- [108] Tsimpida M, Low LC, Posner E, et al. Acute syphilitic posterior placoid chorioretinitis in late latent syphilis. *Int J STD AIDS* 2009;20:207-8.
- [109] Chao JR, Khurana RN, Fawzi AA, et al. Syphilis: reemergence of an old adversary. *Ophthalmology* 2006;113:2074-9.
- [110] Berger JR. Diagnosing neurosyphilis; the value of the cerebrospinal fluid VDRL or lack thereof. *J Clin Neuro-Ophthalmol* 1989;9:234-5.
- [111] Centers for Disease Control and Prevention. Sexually transmitted diseases treatment guidelines 2002. *MMWR Recomm Rep* 2002;51(RR-6):1-78.
- [112] Bansal R, Gupta A, Gupta V, et al. Role of anti-tubercular therapy in uveitis with latent/manifest tuberculosis. *Am J Ophthalmol* 2008;146:772-9.
- [113] Gupta V, Gupta A, Rao NA. Intraocular tuberculosis - an update. *Surv Ophthalmol* 2007;52:561-87.
- [114] Varma D, Anand S, Reddy AR, et al. Tuberculosis: an underdiagnosed aetiological agent in uveitis with an effective treatment. *Eye (Lond)* 2006;20:1068-73.
- [115] Rao NA, Saraswathy S, Smith RE. Tuberculous uveitis: distribution of *Mycobacterium tuberculosis* in the retinal pigment epithelium. *Arch Ophthalmol* 2006;124:1777-9.
- [116] Babu RB, Sudharshan S, Kumarasamy N, et al. Ocular tuberculosis in acquired immunodeficiency syndrome. *Am J Ophthalmol* 2006;142:413-8.
- [117] Mehta S, Gilada IS. Ocular tuberculosis in acquired immune deficiency syndrome (AIDS). *Ocul Immunol Inflamm* 2005;13:87-9.
- [118] Gupta V, Gupta A, Arora S, et al. Simultaneous choroidal tuberculoma and epididymo-orchitis caused by *Mycobacterium tuberculosis*. *Am J Ophthalmol* 2005;140:310-2.
- [119] Gupta A, Gupta V. Tubercular posterior uveitis. *Int Ophthalmol Clin* 2005;45:71-88.
- [120] Rathinam SR, Rao NA. Tuberculous intraocular infection presenting with pigmented hypopyon: a clinicopathological case report. *Br J Ophthalmol* 2004;88:721-2.
- [121] Gupta V, Gupta A, Arora S, et al. Presumed tubercular serpiginouslike choroiditis: clinical presentations and management. *Ophthalmology* 2003;110:1744-9.
- [122] Biswas J, Shome D. Choroidal tubercles in disseminated tuberculosis diagnosed by the polymerase chain reaction of aqueous humor. A case report and review of the literature. *Ocul Immunol Inflamm* 2002;10:293-8.
- [123] Bodaghi B, LeHoang P. Ocular tuberculosis. *Curr Opin Ophthalmol* 2000;11:443-8.
- [124] Bowyer JD, Gormley PD, Seth R, et al. Choroidal tuberculosis diagnosed by polymerase chain reaction. A clinicopathologic case report. *Ophthalmology* 1999;106:290-4.
- [125] Ang M, Htoon HM, Chee SP. Diagnosis of tuberculous uveitis: clinical application of an interferon-gamma release assay. *Ophthalmology* 2009;116:1391-6.
- [126] Tabbara KF. Tuberculosis. *Curr Opin Ophthalmol* 2007;18:493-501.
- [127] Morinelli EN, Dugel PU, Riffenburgh R, Rao NA. Infectious multifocal choroiditis in patients with acquired immune deficiency syndrome. *Ophthalmology* 1993;100:1014-21.
- [128] Abrams J, Schlaegel Jr TF. The role of the isoniazid therapeutic test in tuberculous uveitis. *Am J Ophthalmol* 1982;94:511-5.
- [129] Barondes MJ, Sponsel WE, Stevens TS, Plotnik RD. Tuberculous

- choroiditis diagnosed by chorioretinal endobiopsy. *Am J Ophthalmol* 1991;112:460-1.
- [130] Blodi BA, Johnson MW, McLeish WM, Gass JDM. Presumed choroidal tuberculosis in a human immunodeficiency virus infected host. *Am J Ophthalmol* 1989;108:605-7.
- [131] Cangemi FE, Friedman AH, Josephberg R. Tuberculoma of the choroid. *Ophthalmology* 1980;87:252-8.
- [132] Fountain JA, Werner RB. Tuberculous retinal vasculitis. *Retina* 1984;4:48-50.
- [133] Goldberg MF. Presumed tuberculous maculopathy. *Retina* 1982;2:47-50.
- [134] Inoue S, Ubuka M. A case of choroidal miliary tuberculosis as studied by fluorescence fundus photography. *Folia Ophthalmol Jpn* 1972;23:256-9.
- [135] Massaro D, Katz S, Sachs M. Choroidal tubercles; a clue to hematogenous tuberculosis. *Ann Intern Med* 1964;60:231-41.
- [136] Nakama T, Matsui K, Sugi K, Oshima K. Solitary tuberculosis of the choroid: report of a suspected case. *Folia Ophthalmol Jpn* 1969;20:873-8.
- [137] Shiono T, Abe S, Horiuchi T. A case of miliary tuberculosis with disseminated choroidal haemorrhages. *Br J Ophthalmol* 1990;74:317-9.
- [138] Reddy S, Roe R, Cunningham Jr ET, et al. Diagnostic and therapeutic challenges. *Retina* 2006;26:954-9.
- [139] Mehta S, Chauhan V, Hastak S, Jiandani P, Dalal P. Choroidal tubercles in neurotuberculosis: prevalence and significance. *Ocul Immunol Inflamm* 2006;14:341-5.
- [140] Mehta S. Ocular lesions in acute disseminated tuberculosis. *Ocul Immunol Inflamm* 2004;12:311-5.
- [141] Sharma PM, Singh RP, Kumar A, et al. Choroidal tuberculoma in miliary tuberculosis. *Retina* 2003;23:101-4.
- [142] Ayanru JO, Alli AF, Faal HB, et al. Tuberculoma of the eye; a case report. *Trop Geogr Med* 1986;38:301-4.
- [143] Kim JY, Carrol CP, Opremcak EM. Antibiotic-resistant tuberculous choroiditis. *Am J Ophthalmol* 1993;115:259-61.
- [144] Lyon CE, Grimson BS, Peiffer Jr RL, Merritt JC. Clinicopathological correlation of a solitary choroidal tuberculoma. *Ophthalmology* 1985;92:845-50.
- [145] Mansour AM, Haymond R. Choroidal tuberculomas without evidence of extraocular tuberculosis. *Graefes Arch Clin Exp Ophthalmol* 1990;228:382-5.
- [146] Ity S, Bakri SJ, Pulido JS, et al. Initial results of QuantiFERON-TB Gold testing in patients with uveitis. *Eye (Lond)* 2009;23:904-9.
- [147] Babu K, Satish V, Satish S, et al. Utility of QuantiFERON TB gold test in a south Indian patient population of ocular inflammation. *Indian J Ophthalmol* 2009;57:427-30.
- [148] Corbett EL, Watt CJ, Walker N, et al. The growing burden of tuberculosis: global trends and interactions with the HIV epidemic. *Arch Intern Med* 2003;163:1009-21.
- [149] Dye C, Scheele S, Dolin P, et al. Consensus statement. Global burden of tuberculosis: estimated incidence, prevalence, and mortality by country. WHO Global Surveillance and Monitoring Project. *JAMA* 1999;282:677-86.
- [150] Font RL, Spaulding AG, Green WR. Endogenous mycotic panophthalmitis caused by *Blastomyces dermatitidis*: report of a case and review of the literature. *Arch Ophthalmol* 1967;77:217-22.
- [151] Weerekoon L. Ocular leprosy in West Malaysia. Search for a posterior segment lesion. *Br J Ophthalmol* 1972;56:106-13.
- [152] Chatterjee S, Chaudhury DS. Pattern of eye diseases in leprosy patients of Northern Ghana. *Int J Lepr* 1964;32:53-63.
- [153] Chatterjee S, Chaudhury DS. Hypopigmented patches in fundus in leprosy. *Lepr Rev* 1964;35:88-90.
- [154] Robertson I, Weiner JM, Finkelstein E. Untreated Hansen's disease of the eye: a clinicopathological report. *Aust J Ophthalmol* 1984;12:335-9.
- [155] Rathnam SR, Khazaei HM, Job CK. Histopathological study of ocular erythema nodosum leprosum and post-therapeutic scleral perforation: a case report. *Indian J Ophthalmol* 2008;56:417-9.
- [156] Shamsi FA, Chaudhry IA, Moraes MO, et al. Detection of *Mycobacterium leprae* in ocular tissues by histopathology and real-time polymerase chain reaction. *Ophthalmic Res* 2007;39:63-8.
- [157] Daniel E, Sundar Rao PS, Ffytche TJ, et al. Iris atrophy in patients with newly diagnosed multibacillary leprosy: at diagnosis, during and after completion of multidrug treatment. *Br J Ophthalmol* 2007;91:1019-22.
- [158] Chaudhry IA, Shamsi FA, Elzaridi E, et al. Initial diagnosis of leprosy in patients treated by an ophthalmologist and confirmation by conventional analysis and polymerase chain reaction. *Ophthalmology* 2007;114:1904-11.
- [159] Thajeb P, Thajeb T, Dai D. Fatal strokes in patients with rhino-orbito-cerebral mucormycosis and associated vasculopathy. *Scand J Infect Dis* 2004;36:643-8.
- [160] Yang SW, Kim SY, Chung J, Kim KB. Two cases of orbital infarction syndrome. *Korean J Ophthalmol* 2000;14:107-11.
- [161] Balch K, Phillips PH, Newman NJ. Painless orbital apex syndrome from mucormycosis. *J Neuroophthalmol* 1997;17:178-82.
- [162] Lee BL, Holland GN, Glasgow BJ. Chiasmal infarction and sudden blindness caused by mucormycosis in AIDS and diabetes mellitus. *Am J Ophthalmol* 1996;122:895-6.
- [163] Aguilar GL, Blumenkranz MS, Egbert PR, McCulley JP. *Candida* endophthalmitis after intravenous drug abuse. *Arch Ophthalmol* 1979;97:96-100.
- [164] Brownstein S, Mahoney-Kinsner J, Harris R. Ocular *Candida* with pale-centered hemorrhages. *Arch Ophthalmol* 1983;101:1745-8.
- [165] Dellon AL, Stark WJ, Chretien PB. Spontaneous resolution of endogenous *Candida* endophthalmitis complicating intravenous hyperalimentation. *Am J Ophthalmol* 1975;79:648-54.
- [166] Donahue SP, Greven CM, Zuravleff JJ, et al. Intraocular candidiasis in patients with candidemia: clinical implications derived from a prospective multicenter trial. *Ophthalmology* 1994;101:1302-9.
- [167] Edwards Jr JE, Foos RY, Montgomerie JZ, Guze LB. Ocular manifestations of *Candida* septicemia: review of seventy-six cases of hematogenous *Candida* endophthalmitis. *Medicine* 1974;53:47-75.
- [168] Elliott JH, O'Day DM, Gutow GS, et al. Mycotic endophthalmitis in drug abusers. *Am J Ophthalmol* 1979;88:66-72.
- [169] Fishman LS, Griffin JR, Sapico FL, Hecht R. Hematogenous *Candida* endophthalmitis - a complication of candidemia. *N Engl J Med* 1972;286:675-81.
- [170] Fleming KO. *Candida albicans* abscess of retina. *Can J Ophthalmol* 1972;7:132-5.
- [171] Griffin JR, Pettit TH, Fishman LS, Foos RY. Blood-borne *Candida* endophthalmitis: a clinical and pathologic study of 21 cases. *Arch Ophthalmol* 1973;89:450-6.
- [172] Henderson DK, Edwards Jr JE, Montgomerie JZ. Hematogenous *Candida* endophthalmitis in patients receiving parenteral hyperalimentation fluids. *J Infect Dis* 1981;143:655-61.
- [173] Palmer EA. Endogenous *Candida* endophthalmitis in infants. *Am J Ophthalmol* 1980;89:388-95.
- [174] Parke II DW, Jones DB, Gentry LO. Endogenous endophthalmitis among patients with candidemia. *Ophthalmology* 1982;89:789-96.



- [175] Perraut Jr LE, Perraut LE, Bleiman B, Lyons J. Successful treatment of *Candida albicans* endophthalmitis with intravitreal amphotericin B. *Arch Ophthalmol* 1981;99:1565-7.
- [176] Snip RC, Michels RG. Pars plana vitrectomy in the management of endogenous *Candida* endophthalmitis. *Am J Ophthalmol* 1976;82:699-704.
- [177] Stern GA, Fetkenhour CL, O'Grady RB. Intravitreal amphotericin B treatment of *Candida* endophthalmitis. *Arch Ophthalmol* 1977;95:89-93.
- [178] Van Buren JM. Septic retinitis due to *Candida albicans*. *AMA Arch Pathol* 1958;65:137-46.
- [179] Axelrod AJ, Peyman GA, Apple DJ. Toxicity of intravitreal injection of amphotericin B. *Am J Ophthalmol* 1973;76:578-83.
- [180] Chess J, Kaplan S, Rubinstein A, et al. *Candida* retinitis in bare lymphocyte syndrome. *Ophthalmology* 1986;93:696-8.
- [181] Daily MJ, Dickey JB, Packo KH. Endogenous *Candida* endophthalmitis after intravenous anesthesia with propofol. *Arch Ophthalmol* 1991;109:1081-4.
- [182] McDonnell PJ, McDonnell JM, Brown RH, Green WR. Ocular involvement in patients with fungal infections. *Ophthalmology* 1985;92:706-9.
- [183] Morinelli EN, Dugel PU, Lee M, et al. Opportunistic intraocular infections in AIDS. *Trans Am Ophthalmol Soc* 1992;90:97-109.
- [184] Fisher JF, Taylor AT, Clark J, et al. Penetration of amphotericin B into the human eye. *J Infect Dis* 1983;147:164.
- [185] Barrie T. The place of elective vitrectomy in the management of patients with *Candida* endophthalmitis. *Graefes Arch Clin Exp Ophthalmol* 1987;225:107-13.
- [186] Brod RD, Flynn Jr HW, Clarkson JG, et al. Endogenous *Candida* endophthalmitis: management without intravenous amphotericin B. *Ophthalmology* 1990;97:666-74.
- [187] Shah CP, McKey J, Spirn MJ, Maguire J. Ocular candidiasis: a review. *Br J Ophthalmol* 2008;92:466-8.
- [188] Arriola-Villalobos P, Diaz-Valle D, Alejandre-Alba N, et al. Bilateral *Candida* chorioretinitis following etanercept treatment for hidradenitis suppurativa. *Eye* 2008;22:599-600.
- [189] Varma D, Thaker HR, Moss PJ, et al. Use of voriconazole in *Candida* retinitis. *Eye* 2005;19:485-7.
- [190] Dunn ET, Mansour AM. Retinal striae as a sign of resolving candidal chorioretinitis. *Graefes Arch Clin Exp Ophthalmol* 1988;226:591-2.
- [191] Jones DB. Chemotherapy of experimental endogenous *Candida albicans* endophthalmitis. *Trans Am Ophthalmol Soc* 1980;78:846-95.
- [192] McDonald HR, De Bustros S, Sipperley JO. Vitrectomy for epiretinal membrane with *Candida* chorioretinitis. *Ophthalmology* 1990;97:466-9.
- [193] Rao NA, Hidayat AA. Endogenous mycotic endophthalmitis: variations in clinical and histopathologic changes in candidiasis compared with aspergillosis. *Am J Ophthalmol* 2001;132:244-51.
- [194] Rao NA, Hidayat A. A comparative clinicopathologic study of endogenous mycotic endophthalmitis: variations in clinical and histopathologic changes in candidiasis compared to aspergillosis. *Trans Am Ophthalmol Soc* 2000;98:183-93. [discussion 93-4.]
- [195] Bodoia RD, Kinyoun JL, Qingli L, Bunt-Milam AH. *Aspergillus* necrotizing retinitis: a clinico-pathologic study and review. *Retina* 1989;9:226-31.
- [196] Doff BH, Clarkson JG, Rebell G, Forster RK. Endogenous *Aspergillus* endophthalmitis in drug abusers. *Arch Ophthalmol* 1980;98:859-62.
- [197] Gross JG. Endogenous *Aspergillus*-induced endophthalmitis: successful treatment without systemic antifungal medication. *Retina* 1992;12:341-5.
- [198] Halperin LS, Roseman RL. Successful treatment of a subretinal abscess in an intravenous drug abuser. *Arch Ophthalmol* 1988;106:1651-2.
- [199] Lance SE, Friberg TR, Kowalski RP. *Aspergillus flavus* endophthalmitis and retinitis in an intravenous drug abuser: a therapeutic success. *Ophthalmology* 1988;95:947-9.
- [200] Weishaar PD, Flynn Jr HW, Murray TG, et al. Endogenous *Aspergillus* endophthalmitis: clinical features and treatment outcomes. *ARVO Abstracts. Invest Ophthalmol Vis Sci* 1995;36:789.
- [201] Walsh TJ, Orth DH, Shapiro CM, et al. Metastatic fungal chorioretinitis developing during trichosporon sepsis. *Ophthalmology* 1982;89:152-6.
- [202] Curi AL, Felix S, Azevedo KM, et al. Retinal granuloma caused by *Sporothrix schenckii*. *Am J Ophthalmol* 2003;136:205-7.
- [203] Vieira-Dias D, Sena CM, Orefice F, et al. Ocular and concomitant cutaneous sporotrichosis. *Mycoses* 1997;40:197-201.
- [204] Cartwright MJ, Promersberger M, Stevens GA. *Sporothrix schenckii* endophthalmitis presenting as granulomatous uveitis. *Br J Ophthalmol* 1993;77:61-2.
- [205] Brunette I, Stulting RD. *Sporothrix schenckii* scleritis. *Am J Ophthalmol* 1992;114:370-1.
- [206] Witherspoon CD, Kuhn F, Owens SD, et al. Endophthalmitis due to *Sporothrix schenckii* after penetrating ocular injury. *Ann Ophthalmol* 1990;22:385-8.
- [207] Kurosawa A, Pollock SC, Collins MP, et al. *Sporothrix schenckii* endophthalmitis in a patient with human immunodeficiency virus infection. *Arch Ophthalmol* 1988;106:376-80.
- [208] Castro RM, de Sabogal MF, Cuce LC, Salebian A. Disseminate sporotrichosis - report of a clinical case with mucocutaneous, osteo-articular, and ocular lesions. *Mykosen* 1981;24:92-6.
- [209] Font RL, Jakobiec FA. Granulomatous necrotizing retinochoroiditis caused by *Sporotrichum schenckii*. Report of a case including immunofluorescence and electron microscopical studies. *Arch Ophthalmol* 1976;94:1513-9.
- [210] Levy JH. Intraocular sporotrichosis. Report of a case. *Arch Ophthalmol* 1971;85:574-9.
- [211] Cassady JR, Foerster HC. *Sporotrichum schenckii* endophthalmitis. *Arch Ophthalmol* 1971;85:71-4.
- [212] Taylor A, Wiffen SJ, Kennedy CJ. Post-traumatic *Scedosporium inflatum* endophthalmitis. *Clin Experiment Ophthalmol* 2002;30:47-8.
- [213] McKelvie PA, Wong EY, Chow LP, Hall AJ. *Scedosporium* endophthalmitis: two fatal disseminated cases of *Scedosporium* infection presenting with endophthalmitis. *Clin Experiment Ophthalmol* 2001;29:330-4.
- [214] Carney MD, Tabassian A, Guerry RK. Pseudo-*Allescheria boydii* endophthalmitis. *Retina* 1996;16:263-4.
- [215] Larocco Jr A, Barron JB. Endogenous *Scedosporium apiospermum* endophthalmitis. *Retina* 2005;25:1090-3.
- [216] Figueroa MS, Fortun J, Clement A, De Arevalo BF. Endogenous endophthalmitis caused by *Scedosporium apiospermum* treated with voriconazole. *Retina* 2004;24:319-20.
- [217] Spriet I, Delaere L, Lagrou K, et al. Intraocular penetration of voriconazole and caspofungin in a patient with fungal endophthalmitis. *J Antimicrob Chemother* 2009;64:877-8.
- [218] Wykoff CC, Flynn Jr HW, Miller D, et al. Exogenous fungal endophthalmitis: microbiology and clinical outcomes. *Ophthalmology* 2008;115:1501-7. [7 e1-2]
- [219] Tu EY, McCartney DL, Beatty RF, et al. Successful treatment of resistant ocular fusariosis with posaconazole (SCH-56592). *Am J Ophthalmol* 2007;143:222-7.
- [220] Rezai KA, Elliott D, Plous O, et al. Disseminated *Fusarium* infection presenting as bilateral endogenous endophthalmitis in a patient with acute myeloid leukemia. *Arch Ophthalmol*

- 2005;123:702-3.
- [221] Glasgow BJ, Engstrom Jr RE, Holland GN, et al. Bilateral endogenous Fusarium endophthalmitis associated with acquired immunodeficiency syndrome. *Arch Ophthalmol* 1996;114:873-7.
- [222] Klintworth GK, Hollingsworth AS, Lusman PA, Bradford WD. Granulomatous choroiditis in a case of disseminated histoplasmosis; histologic demonstration of *Histoplasma capsulatum* in choroidal lesions. *Arch Ophthalmol* 1973;90:45-8. [Correspondence 1974;91:237.]
- [223] Macher A, Rodrigues MM, Kaplan W, et al. Disseminated bilateral chorioretinitis due to *Histoplasma capsulatum* in a patient with the acquired immunodeficiency syndrome. *Ophthalmology* 1985;92:1159-64.
- [224] Specht CS, Mitchell KT, Bauman AE, Gupta M. Ocular histoplasmosis with retinitis in a patient with acquired immune deficiency syndrome. *Ophthalmology* 1991;98:1356-9.
- [225] Rodenbiker HT, Ganley JP, Galgiani JN, Axline SG. Prevalence of chorioretinal scars associated with coccidioidomycosis. *Arch Ophthalmol* 1981;99:71-5.
- [226] Wong VG. Focal chorioidopathy in experimental ocular histoplasmosis. *Trans Am Ophthalmol Soc* 1972;70:615-30.
- [227] Alexander PB, Coodley EL. Disseminated coccidioidomycosis with intraocular involvement. *Am J Ophthalmol* 1967;64:283-9.
- [228] Blumenkranz MS, Stevens DA. Endogenous coccidioid endophthalmitis. *Ophthalmology* 1980;87:974-84.
- [229] Boyden BS, Yee DS. Bilateral coccidioid choroiditis: a clinicopathologic case report. *Trans Am Acad Ophthalmol Otolaryngol* 1971;75:1006-10.
- [230] Cutler JE, Binder PS, Paul TO, Beamis JF. Metastatic coccidioid endophthalmitis. *Arch Ophthalmol* 1978;96:689-91.
- [231] Glasgow BJ, Brown HH, Foos RY. Miliary retinitis in coccidioidomycosis. *Am J Ophthalmol* 1987;104:24-7.
- [232] Levitt JM. Ocular manifestations of coccidioidomycosis. *Am J Ophthalmol* 1948;31:1626-8.
- [233] Pettit TH, Learn RN, Foos RY. Intraocular coccidioidomycosis. *Arch Ophthalmol* 1967;77:655-61.
- [234] Rodenbiker HT, Ganley JP. Ocular coccidioidomycosis. *Surv Ophthalmol* 1980;24:263-90.
- [235] Trowbridge DH. Ocular manifestations of coccidioidomycosis. *Trans Pacif Cst Oto-Ophthalmol Soc* 1952;33:229-46.
- [236] Zakka KA, Foos RY, Brown WJ. Intraocular coccidioidomycosis. *Surv Ophthalmol* 1978;22:313-21.
- [236a] Dublin AB, Philips HE. Computer tomography of disseminated coccidioidomycosis. *Radiology* 1980 May;135(2):361-8.
- [237] Avendaño J, Tanishima T, Kuwabara T. Ocular cryptococcosis. *Am J Ophthalmol* 1978;86:110-3.
- [238] Shields JA, Wright DM, Augsburger JJ, Wolkowicz MI. Cryptococcal chorioretinitis. *Am J Ophthalmol* 1980;89:210-8.
- [239] Coccidioidomycosis.
- [240] Agarwal A, Gupta A, Sakhuja V, et al. Retinitis following disseminated cryptococcosis in a renal allograft recipient. Efficacy of oral fluconazole. *Acta Ophthalmol (Copenh)* 1991;69:402-5.
- [241] Doft BH, Curtin VT. Combined ocular infection with cytomegalovirus and cryptococcosis. *Arch Ophthalmol* 1982;100:1800-3.
- [242] Hester DE, Kylstra JA, Eifrig DE. Isolated ocular cryptococcosis in an immunocompetent patient. *Ophthalmic Surg* 1992;23:129-31.
- [243] Hiss PW, Shields JA, Augsburger JJ. Solitary retinovitreal abscess as the initial manifestation of cryptococcosis. *Ophthalmology* 1988;95:162-5.
- [244] Khodadoust AA, Payne JW. Cryptococcal (torular) retinitis: a clinicopathologic case report. *Am J Ophthalmol* 1969;67:745-50.
- [245] Schulman JA, Leveque C, Coats M, et al. Fatal disseminated cryptococcosis following intraocular involvement. *Br J Ophthalmol* 1988;72:171-5.
- [246] Stone SP, Bending J, Hakim J, et al. Cryptococcal meningitis presenting as uveitis. *Br J Ophthalmol* 1988;72:167-70.
- [247] Arevalo JF, Fuenmayor-Rivera D, Giral AE, Murcia E. Indocyanine green videoangiography of multifocal *Cryptococcus neoformans* choroiditis in a patient with acquired immunodeficiency syndrome. *Retina* 2001;21:537-41.
- [248] Sheu SJ, Chen YC, Kuo NW, et al. Endogenous cryptococcal endophthalmitis. *Ophthalmology* 1998;105:377-81.
- [249] Biswas J, Gopal L, Sharma T, et al. Recurrent cryptococcal choroiditis in a renal transplant patient: clinicopathologic study. *Retina* 1998;18:273-6.
- [250] Hiles DA, Font RL. Bilateral intraocular cryptococcosis with unilateral spontaneous regression: report of a case and review of the literature. *Am J Ophthalmol* 1968;65:98-108.
- [251] Szalai G, Fellegi V, Szabo Z, Vitez LC. Mucormycosis mimicks sinusitis in a diabetic adult. *Ann N Y Acad Sci* 2006;1084:520-30.
- [252] Harrison AR, Wirtschafter JD. Ocular neuromyotonia in a patient with cavernous sinus thrombosis secondary to mucormycosis. *Am J Ophthalmol* 1997;124:122-3.
- [253] Gupta A, Gupta V, Dogra MR, et al. Fungal endophthalmitis after a single intravenous administration of presumably contaminated dextrose infusion fluid. *Retina* 2000;20:262-8.
- [254] Tarani L, Costantino F, Notheis G, et al. Long-term posaconazole treatment and follow-up of rhino-orbital-cerebral mucormycosis in a diabetic girl. *Pediatr Diabetes* 2009;10:289-93.
- [255] Pelton RW, Peterson EA, Patel BC, Davis K. Successful treatment of rhino-orbital mucormycosis without exenteration: the use of multiple treatment modalities. *Ophthalm Plast Reconstr Surg* 2001;17:62-6.
- [256] Seiff SR, Choo PH, Carter SR. Role of local amphotericin B therapy for sino-orbital fungal infections. *Ophthalm Plast Reconstr Surg* 1999;15:28-31.
- [256a] Gupta P, Sachdev N, Kaur J, et al. Endogenous mycotic endophthalmitis in an immunocompetent patient. *Int Ophthalmol*. 2009 Aug;29(4):315-8. Epub 2008 Jun 5.
- [257] Klintworth GK, Hollingsworth AS, Lusman PA, Bradford WD. Granulomatous choroiditis in a case of disseminated histoplasmosis; histologic demonstration of *Histoplasma capsulatum* in choroidal lesions. *Arch Ophthalmol* 1973;90:45-8. [Correspondence 1974;91:237.]
- [258] Macher A, Rodriguez MM, Kaplan W, et al. Disseminated bilateral chorioretinitis due to *Histoplasma capsulatum* in a patient with the acquired immunodeficiency syndrome. *Ophthalmology* 1985;92:1159-64.
- [259] Acers TE. Toxoplasmic retinochoroiditis: a double blind therapeutic study. *Arch Ophthalmol* 1964;71:58-62.
- [260] Asbell PA, Vermund SH, Hofeldt AJ. Presumed toxoplasmic retinochoroiditis in four siblings. *Am J Ophthalmol* 1982;94:656-63.
- [261] Awan KJ. Congenital toxoplasmosis: chances of occurrence in subsequent siblings. *Ann Ophthalmol* 1978;10:459-65.
- [262] Braunstein RA, Gass JDM. Branch artery obstruction caused by acute toxoplasmosis. *Arch Ophthalmol* 1980;98:512-3.
- [263] Culbertson WW, Tabbara KF, O'Connor GR. Experimental ocular toxoplasmosis in primates. *Arch Ophthalmol* 1982;100:321-3.
- [264] Doft BH, Gass JDM. Punctate outer retinal toxoplasmosis. *Arch Ophthalmol* 1985;103:1332-6.
- [265] Fine SL, Owens SL, Haller JA, et al. Choroidal neovascularization as a late complication of ocular toxoplasmosis. *Am J Ophthalmol* 1981;91:318-22.

- [266] Folk JC, Lobes LA. Presumed toxoplasmic papillitis. *Ophthalmology* 1984;91:64-7.
- [267] Gass JDM. Fluorescein angiography in endogenous intraocular inflammation. In: Aronson SB, Gamble CN, Goodner EK, O'Connor GR, editors. *Clinical methods in uveitis: the Fourth Sloan Symposium on Uveitis*. St Louis: CV Mosby; 1968. p. 202-29.
- [268] Gass JDM. *Stereoscopic atlas of macular diseases: diagnosis and treatment*, 2nd ed. St Louis: CV Mosby; 1977. p. 296-97.
- [269] Gass JDM. *Stereoscopic atlas of macular diseases: diagnosis and treatment*, 3rd ed. St Louis: CV Mosby; 1987. p. 465-67.
- [270] Gaynon MW, Boldrey EE, Strahlman ER, Fine SL. Retinal neovascularization and ocular toxoplasmosis. *Am J Ophthalmol* 1984;98:585-9.
- [271] Ghartey KN, Brockhurst RJ. Photocoagulation of active toxoplasmic retinochoroiditis. *Am J Ophthalmol* 1980;89:858-64.
- [272] Gilbert HD. Unusual presentation of acute ocular toxoplasmosis. *Albrecht von Graefes Arch Klin Exp Ophthalmol* 1980;215:53-8.
- [273] Hogan MJ. Ocular toxoplasmosis: clinical and laboratory diagnosis; evaluation of immunologic tests; treatment. *Arch Ophthalmol* 1956;55:333-45.
- [274] Kennedy JE, Wise GN. Retinochoroidal vascular anastomosis in uveitis. *Am J Ophthalmol* 1971;71:1221-5.
- [275] Kyrieleis W. Über atypische Gefäßtuberkulose der Netzhaut (Periarteriitis 'nodosa' tuberculosa). *Arch Augenheilkd* 1933;107:182-90.
- [276] La Hey E, Rothova A, Baarsma GS, et al. Fuchs' heterochromic iridocyclitis is not associated with ocular toxoplasmosis. *Arch Ophthalmol* 1992;110:806-11.
- [277] Lou P, Kazdan J, Basu PK. Ocular toxoplasmosis in three consecutive siblings. *Arch Ophthalmol* 1978;96:613-4.
- [278] Manschot WA, Daamen CBF. Congenital ocular toxoplasmosis. *Arch Ophthalmol* 1965;74:48-54.
- [279] Morgan CM, Gragoudas ES. Photo essay: branch retinal artery occlusion associated with recurrent toxoplasmic retinochoroiditis. *Arch Ophthalmol* 1987;105:130-1.
- [280] Nicholson DH, Wolchok EB. Ocular toxoplasmosis in an adult receiving long-term corticosteroid therapy. *Arch Ophthalmol* 1976;94:248-54.
- [281] O'Connor GR, Frenkel JK. Dangers of steroid treatment in toxoplasmosis: periocular injections and systemic therapy. *Arch Ophthalmol* 1976;94:213.
- [282] Owens PL, Goldberg MF, Busse BJ. Prospective observation of vascular anastomoses between the retina and choroid in recurrent toxoplasmosis. *Am J Ophthalmol* 1979;88:402-5.
- [283] Rothova A. Ocular involvement in toxoplasmosis. *Br J Ophthalmol* 1993;77:371-7. [correction p. 683.]
- [284] Ryan Jr SJ, Smith RE. Ocular toxoplasmosis. In: Ryan Jr SJ, Smith RE, editors. *Selected topics on the eye in systemic disease*. New York: Grune and Stratton; 1974. p. 259-73.
- [285] Saari M, Vuorre I, Neiminen H, Räisänen S. Acquired toxoplasmic chorioretinitis. *Arch Ophthalmol* 1976;94:1485-8.
- [286] Sabates R, Pruett RC, Brockhurst RJ. Fulminant ocular toxoplasmosis. *Am J Ophthalmol* 1981;92:497-503.
- [287] Schlaegel Jr TF, Weber JC. The macula in ocular toxoplasmosis. *Arch Ophthalmol* 1984;102:697-8.
- [288] Schwartz PL. Segmental retinal periarteritis as a complication of toxoplasmosis. *Ann Ophthalmol* 1977;9:157-62.
- [289] Scott EH. New concepts in toxoplasmosis. *Surv Ophthalmol* 1974;18:255-74.
- [290] Spalter HF, Campbell CJ, Noyori KS, et al. Prophylactic photocoagulation of recurrent toxoplasmic retinochoroiditis: a preliminary report. *Arch Ophthalmol* 1966;75:21-31.
- [291] Webb RM, Tabbara KF, O'Connor GR. Retinal vasculitis in ocular toxoplasmosis in nonhuman primates. *Retina* 1984;4:182-8.
- [292] Willerson Jr D, Aaberg TM, Reeser F, Meredith TA. Unusual ocular presentation of acute toxoplasmosis. *Br J Ophthalmol* 1977;61:693-8.
- [293] Tetz M, Holz FG, Gallasch G, Völcker HE. Segmentale retinale Arteriitis und Retinochorioiditis. *Ophthalmologie* 1992;89:71-6.
- [294] Kasp E, Whiston R, Dumonde D, et al. Antibody affinity to retinal S-antigen in patients with retinal vasculitis. *Am J Ophthalmol* 1992;113:697-701.
- [295] Matthews JD, Weiter JJ. Outer retinal toxoplasmosis. *Ophthalmology* 1988;95:941-6.
- [296] Fish RH, Hoskins JC, Kline LB. Toxoplasmosis neuroretinitis. *Ophthalmology* 1993;100:1177-82.
- [297] Rothova A, van Knapen F, Baarsma GS, et al. Serology in ocular toxoplasmosis. *Br J Ophthalmol* 1986;70:615-22.
- [298] Chan C-C, Palestine AG, Li Q, Nussenblatt RB. Diagnosis of ocular toxoplasmosis by the use of immunocytology and the polymerase chain reaction. *Am J Ophthalmol* 1994;117:803-5.
- [298a] Rothova A, de Boer JH, Ten Dam-van Loon NH, et al. Usefulness of aqueous humor analysis for the diagnosis of posterior uveitis. *Ophthalmol* 2008;115(2):306-11.
- [298b] Pencina, D'Agostino, et al. 2009.
- [299] Weiss MJ, Velazquez N, Hofeldt AJ. Serologic tests in the diagnosis of presumed toxoplasmic retinochoroiditis. *Am J Ophthalmol* 1990;109:407-11.
- [300] Aouizerate F, Cazenave J, Poirier L, et al. Detection of *Toxoplasma gondii* in aqueous humour by the polymerase chain reaction. *Br J Ophthalmol* 1993;77:107-9.
- [301] Greven CM, Teot LA. Cytologic identification of *Toxoplasma gondii* from vitreous fluid. *Arch Ophthalmol* 1994;112:1086-8.
- [302] Jampel HD, Schachat AP, Conway B, et al. Retinal pigment epithelial hyperplasia assuming tumor-like proportions; report of two cases. *Retina* 1986;6:105-12.
- [303] Saari M, Miettinen R, Nieminen H, Räisänen S. Retinochoroidal vascular anastomosis in toxoplasmic chorioretinitis; report of a case. *Acta Ophthalmol* 1975;53:44-51.
- [304] Cotliar AM, Friedman AH. Subretinal neovascularisation in ocular toxoplasmosis. *Br J Ophthalmol* 1982;66:524-9.
- [305] de Abreu MT, Belfort Jr R, Hirata PS. Fuchs' heterochromic cyclitis and ocular toxoplasmosis. *Am J Ophthalmol* 1982;93:739-44.
- [306] Schwab IR. The epidemiologic association of Fuchs' heterochromic iridocyclitis and ocular toxoplasmosis. *Am J Ophthalmol* 1991;111:356-62.
- [307] Silveira C, Belfort Jr R, Nussenblatt R, et al. Unilateral pigmentary retinopathy associated with ocular toxoplasmosis. *Am J Ophthalmol* 1989;107:682-4.
- [308] Glasner PD, Silveira C, Kruszon-Moran D, et al. An unusually high prevalence of ocular toxoplasmosis in southern Brazil. *Am J Ophthalmol* 1992;114:136-44.
- [309] Silveira C, Belfort Jr R, Burnier Jr M, Nussenblatt R. Acquired toxoplasmic infection as the cause of toxoplasmic retinochoroiditis in families. *Am J Ophthalmol* 1988;106:362-4.
- [310] Holland GN. An epidemic of toxoplasmosis: lessons from Coimbatore, India. *Arch Ophthalmol* 2010;128:126-8.
- [311] de Moura L, Bahia-Oliveira LM, Wada MY, et al. Waterborne toxoplasmosis, Brazil, from field to gene. *Emerg Infect Dis* 2006;12:326-9.
- [312] Bahia-Oliveira LM, Jones JL, Azevedo-Silva J, et al. Highly endemic, waterborne toxoplasmosis in north Rio de Janeiro state, Brazil. *Emerg Infect Dis* 2003;9:55-62.
- [313] Burnett AJ, Shortt SG, Isaac-Renton J, et al. Multiple cases of acquired toxoplasmosis retinitis presenting in an outbreak.

- Ophthalmology 1998;105:1032-7.
- [314] Fortier B, Coignard-Chatain C, Dao A, et al. Study of developing clinical outbreak and serological rebounds in children with congenital toxoplasmosis and follow-up during the first 2 years of life. *Arch Pediatr* 1997;4:940-6.
- [315] Choi WY, Nam HW, Kwak NH, et al. Foodborne outbreaks of human toxoplasmosis. *J Infect Dis* 1997;175:1280-2.
- [316] Bowie WR, King AS, Werker DH, et al. Outbreak of toxoplasmosis associated with municipal drinking water. The BC Toxoplasma Investigation Team. *Lancet* 1997;350:173-7.
- [317] Palanisamy M, Madhavan B, Balasundaram MB, et al. Outbreak of ocular toxoplasmosis in Coimbatore, India. *Indian J Ophthalmol* 2006;54:129-31.
- [318] Balasundaram MB, Andavar R, Palaniswamy M, Venkatapathy N. Outbreak of acquired ocular toxoplasmosis involving 248 patients. *Arch Ophthalmol* 2010;128:28-32.
- [319] Holland GN, Crespi CM, ten Dam-van Loon N, et al. Analysis of recurrence patterns associated with toxoplasmic retinochoroiditis. *Am J Ophthalmol* 2008;145:1007-13.
- [320] Hogan MJ, Zimmerman LE. *Ophthalmic pathology: an atlas and textbook*, 2nd ed. Philadelphia: WB Saunders; 1962. p. 488-91.
- [321] Schuman JS, Weinberg RS, Ferry AP, Guerry RK. Toxoplasmic scleritis. *Ophthalmology* 1988;95:1399-403.
- [322] Rao NA, Font RL. Toxoplasmic retinochoroiditis; electron-microscopic and immunofluorescence studies of formalin-fixed tissue. *Arch Ophthalmol* 1977;95:273-7.
- [323] Colin J, Harie JC. Choriorétinites présumées toxoplasmiques: étude comparative des traitements par pyriméthamine et sulfadiazine ou clindamycine. *J Fr Ophtalmol* 1989;12:161-5.
- [324] Engstrom Jr RE, Holland GN, Nussenblatt RB, Jabs DA. Current practices in the management of ocular toxoplasmosis. *Am J Ophthalmol* 1991;111:601-10.
- [325] Opremeak EM, Scales DK, Sharpe MR. Trimethoprim-sulfamethoxazole therapy for ocular toxoplasmosis. *Ophthalmology* 1992;99:920-5.
- [326] Perkins ES, Smith CH, Schofield PB. Treatment of uveitis with pyrimethamine (Daraprim). *Br J Ophthalmol* 1956;40:577-86.
- [327] Rothova A, Buitenhuis HJ, Meenken C, et al. Therapy of ocular toxoplasmosis. *Int Ophthalmol* 1989;13:415-9.
- [328] Rothova A, Meenken C, Buitenhuis HJ, et al. Therapy for ocular toxoplasmosis. *Am J Ophthalmol* 1993;115:517-23.
- [329] Sobrin L, Kump LI, Foster CS. Intravitreal clindamycin for toxoplasmic retinochoroiditis. *Retina* 2007;27:952-7.
- [330] Kishore K, Conway MD, Peyman GA. Intravitreal clindamycin and dexamethasone for toxoplasmic retinochoroiditis. *Ophthalmic Surg Lasers* 2001;32:183-92.
- [331] Berger BB, Egwuagu CE, Freeman WR, Wiley CA. Miliary toxoplasmic retinitis in acquired immunodeficiency syndrome. *Arch Ophthalmol* 1993;111:373-6.
- [332] Bottoni F, Gonnella P, Autelitano A, Orzalesi N. Diffuse necrotizing retinochoroiditis in a child with AIDS and toxoplasmic encephalitis. *Graefes Arch Clin Exp Ophthalmol* 1990;228:36-9.
- [333] Cochereau-Massin I, LeHoang P, Lautier-Frau M, et al. Ocular toxoplasmosis in human immunodeficiency virus-infected patients. *Am J Ophthalmol* 1992;114:130-5.
- [334] Gagliuso DJ, Teich SA, Friedman AH, Orellana J. Ocular toxoplasmosis in AIDS patients. *Trans Am Ophthalmol Soc* 1990;88:63-86.
- [335] Grossniklaus HE, Specht CS, Allaire G, Leavitt JA. *Toxoplasma gondii* retinochoroiditis and optic neuritis in acquired immune deficiency syndrome. *Ophthalmology* 1990;97:1342-6.
- [336] Holland GN, Engstrom Jr RE, Glasgow BJ, et al. Ocular toxoplasmosis in patients with the acquired immunodeficiency syndrome. *Am J Ophthalmol* 1988;106:653-67.
- [337] Moorthy RS, Smith RE, Rao NA. Progressive ocular toxoplasmosis in patients with acquired immunodeficiency syndrome. *Am J Ophthalmol* 1993;115:742-7.
- [338] Parke II DW, Font RL. Diffuse toxoplasmic retinochoroiditis in a patient with AIDS. *Arch Ophthalmol* 1986;104:571-5.
- [339] Pauleikhoff D, Messmer E, Beelen DW, et al. Bone-marrow transplantation and toxoplasmic retinochoroiditis. *Graefes Arch Clin Exp Ophthalmol* 1987;225:239-43.
- [340] Singer MA, Hagler WS, Grossniklaus HE. *Toxoplasma gondii* retinochoroiditis after liver transplantation. *Retina* 1993;13:40-5.
- [341] Weiss A, Margo CE, Ledford DK, et al. Toxoplasmic retinochoroiditis as an initial manifestation of the acquired immune deficiency syndrome. *Am J Ophthalmol* 1986;101:248-50.
- [342] Yeo JH, Jakobiec FA, Iwamoto T, et al. Opportunistic toxoplasmic retinochoroiditis following chemotherapy for systemic lymphoma; a light and electron microscopic study. *Ophthalmology* 1983;90:885-98.
- [343] Lewallen S, Taylor TE, Molyneux ME, et al. Ocular fundus findings in Malawian children with cerebral malaria. *Ophthalmology* 1993;100:857-61.
- [344] Maude RJ, Hassan MU, Beare NA. Severe retinal whitening in an adult with cerebral malaria. *Am J Trop Med Hyg* 2009;80:881.
- [345] Beare NA, Harding SP, Taylor TE, et al. Perfusion abnormalities in children with cerebral malaria and malarial retinopathy. *J Infect Dis* 2009;199:263-71.
- [346] Mehta SA, Ansari AS, Jiandani P. Ophthalmoscopic findings in adult patients with severe falciparum malaria. *Ocul Immunol Inflamm* 2008;16:239-41.
- [347] Harding SP, Lewallen S, Beare NA, et al. Classifying and grading retinal signs in severe malaria. *Trop Doct* 2006;36(Suppl. 1):1-13.
- [348] Beare NA, Taylor TE, Harding SP, et al. Malarial retinopathy: a newly established diagnostic sign in severe malaria. *Am J Trop Med Hyg* 2006;75:790-7.
- [349] Beare NA, Lewis DK, Kublin JG, et al. Retinal changes in adults with cerebral malaria. *Ann Trop Med Parasitol* 2003;97:313-5.
- [350] Lewallen S. The fundus in severe malaria. *Arch Ophthalmol* 1998;116:542-3.
- [351] Amano Y, Ohashi Y, Haruta Y, et al. A new fundus finding in patients with zoster ophthalmicus. *Am J Ophthalmol* 1986;102:532-3.
- [352] Dugel PU, Rao NA, Forster DJ, et al. Pneumocystis carinii choroiditis after long-term aerosolized pentamidine therapy. *Am J Ophthalmol* 1990;110:113-7.
- [353] Foster RE, Lowder CY, Meisler DM, et al. Presumed Pneumocystis carinii choroiditis; unifocal presentation, regression with intravenous pentamidine, and choroiditis recurrence. *Ophthalmology* 1991;98:1360-5.
- [354] Freeman WR, Gross JG, Labelle J, et al. Pneumocystis carinii choroidopathy: a new clinical entity. *Arch Ophthalmol* 1989;107:863-7.
- [355] Holland GN, MacArthur LJ, Foos RY. Choroidal pneumocystosis. *Arch Ophthalmol* 1991;109:1454-5.
- [356] Koser MW, Jampol LM, MacDonell K. Treatment of Pneumocystis carinii choroidopathy. *Arch Ophthalmol* 1990;108:1214-5.
- [357] Rosenblatt MA, Cunningham C, Teich S, Friedman AH. Choroidal lesions in patients with AIDS. *Br J Ophthalmol* 1990;74:610-4.
- [358] Sha BE, Benson CA, Deutsch T, et al. Pneumocystis carinii choroiditis in patients with AIDS: clinical features, response to therapy, and outcome. *J Acquir Immune Defic Syndr*



- 1992;5:1051-8.
- [359] Shami MJ, Freeman W, Friedberg D, et al. A multicenter study of Pneumocystis choroidopathy. *Am J Ophthalmol* 1991;112:15-22.
- [360] Teich SA, Rosenblatt M, Friedman A. Pneumocystis carinii choroiditis after long-term aerosolized pentamidine therapy. *Am J Ophthalmol* 1991;111:118.
- [361] Whitcup SM, Fenton RM, Pluda JM, et al. Pneumocystis carinii and Mycobacterium avium-intracellulare infection of the choroid. *Retina* 1992;12:331-5.
- [362] Rao NA, Zimmerman PL, Boyer D, et al. A clinical, histopathologic, and electron microscopic study of Pneumocystis carinii choroiditis. *Am J Ophthalmol* 1989;197:218-28.
- [363] Gupta A, Hustler A, Herieka E, Matthews BN. Pneumocystis choroiditis. *Eye (Lond)* 2010;24:178.
- [364] Sabri K, Bibby K. Choroiditis and exudative macular detachments in a post transplant leukaemic patient: an unusual presentation of Pneumocystis jiroveci infection. *Br J Ophthalmol* 2006;90:118-9.
- [365] Ashton N. Larval granulomatosis of the retina due to Toxocara. *Br J Ophthalmol* 1960;44:129-48.
- [366] Bird AC, Smith JL, Curtin VT. Nematode optic neuritis. *Am J Ophthalmol* 1970;69:72-7.
- [367] Duguid IM. Chronic endophthalmitis due to Toxocara. *Br J Ophthalmol* 1961;45:705-17.
- [368] Duguid IM. Features of ocular infestation by Toxocara. *Br J Ophthalmol* 1961;45:789-96.
- [369] Ellis Jr GS, Pakalnis VA, Worley G, et al. Toxocara canis infestation; clinical and epidemiological associations with seropositivity in kindergarten children. *Ophthalmology* 1986;93:1032-7.
- [370] Hogan MJ, Kimura SJ, Spencer WH. Visceral larva migrans and peripheral retinitis. *JAMA* 1965;194:1345-7.
- [371] Nichols RL. The etiology of visceral larva migrans. I. Diagnostic morphology of infective second-stage Toxocara larvae. *J Parasitol* 1956;42:349-62.
- [372] Schantz PM, Glickman LT. Toxocaral visceral larva migrans. *N Engl J Med* 1978;298:436-9.
- [373] Shields JA. Ocular toxocariasis: a review. *Surv Ophthalmol* 1984;28:361-81.
- [374] Wilder HC. Nematode endophthalmitis. *Trans Am Acad Ophthalmol Otolaryngol* 1951;55:99-109.
- [375] Wilkinson CP, Welch RB. Intraocular Toxocara. *Am J Ophthalmol* 1971;71:921-30.
- [376] Zimmerman LE. Toxoplasma gondii from Toxocara cati. *Arch Ophthalmol* 1966;76:159-60.
- [377] Sorr EM. Meandering ocular toxocariasis. *Retina* 1984;4:90-6.
- [378] Bowman DD, Mika-Grieve M, Grieve RB. Toxocara canis: monoclonal antibodies to larval excretory-secretory antigens that bind with genus and species specificity to the cuticular surface of infective larvae. *Exp Parasitol* 1987;64:458-65.
- [379] Cox TA, Haskins GE, Gangitano JH, Antonson DL. Bilateral Toxocara optic neuropathy. *J Clin Neuro-Ophthalmol* 1983;3:267-74.
- [380] Molk R. Treatment of toxocaral optic neuritis. *J Clin Neuro-Ophthalmol* 1982;2:109-12.
- [381] Bloom SM, Snady-McCoy L. Multifocal choroiditis uveitis occurring after herpes zoster ophthalmicus. *Am J Ophthalmol* 1989;108:733-5.
- [382] Kelly SP, Rosenthal AR. Chickenpox chorioretinitis. *Br J Ophthalmol* 1990;74:698-9.
- [383] Gass JDM. Stereoscopic atlas of macular diseases: a funduscopy and angiographic presentation. St Louis: CV Mosby; 1970. p. 108.
- [384] McElvanney AM, Murray PI. Multifocal choroidal lesions: a rare complication of herpes zoster ophthalmicus. *J Neuro-Ophthalmol* 1994;14:12-14.
- [385] Luxenberg MN. An experimental approach to the study of intraocular Toxocara canis. *Trans Am Ophthalmol Soc* 1979;77:542-602.
- [386] Shiono T, Abe S, Horiuchi T. A case of miliary tuberculosis with disseminated choroidal haemorrhages. *Br J Ophthalmol* 1990;74:317-9.
- [387] Paul M, Stefaniak J, Twardosz-Pawlik H, Pecold K. The co-occurrence of Toxocara ocular and visceral larva migrans syndrome: a case series. *Cases J* 2009;2:6881.
- [388] Pollard ZF. Ocular Toxocara in siblings of two families: diagnosis confirmed by ELISA test. *Arch Ophthalmol* 1979;97:2319-20.
- [389] Small KW, McCuen II BW, de Juan Jr E, Macheimer R. Surgical management of retinal traction caused by toxocariasis. *Am J Ophthalmol* 1989;108:10-14.
- [390] Biglan AW, Glickman LT, Lobes Jr LA. Serum and vitreous Toxocara antibody in nematode endophthalmitis. *Am J Ophthalmol* 1979;88:898-901.
- [391] Felberg NT, Shields JA, Federman JL. Antibody to Toxocara canis in the aqueous humor. *Arch Ophthalmol* 1981;99:1563-4.
- [392] Pollard ZF, Jarrett WH, Hagler WS, et al. ELISA for diagnosis of ocular toxocariasis. *Ophthalmology* 1979;86:743-9.
- [393] Shields JA, Lerner HA, Felberg NT. Aqueous cytology and enzymes in nematode endophthalmitis. *Am J Ophthalmol* 1977;84:319-22.
- [394] de Visser L, Rothova A, de Boer JH, et al. Diagnosis of ocular toxocariasis by establishing intraocular antibody production. *Am J Ophthalmol* 2008;145:369-74.
- [395] Deegan III WF, Duker JS. Unifocal choroiditis in primary varicella zoster (chicken pox). *Arch Ophthalmol* 1994;112:735-6.
- [396] Gonvers M, Mermoud A, Uffer S, et al. Toxocara canis oculaire chez un adulte de 30 ans. *Klin Monatsbl Augenheilkd* 1992;200:522-4.
- [397] Maguire AM, Green WR, Michels RG, Erozan YS. Recovery of intraocular Toxocara canis by pars plana vitrectomy. *Ophthalmology* 1990;97:675-80.
- [398] Ghafoor SYA, Smith HV, Lee WR, et al. Experimental ocular toxocariasis: a mouse model. *Br J Ophthalmol* 1984;68:89-96.
- [399] Belmont JB, Irvine A, Benson W, O'Connor GR. Vitrectomy in ocular toxocariasis. *Arch Ophthalmol* 1982;100:1912-5.
- [400] Treister G, Macheimer R. Results of vitrectomy for rare proliferative and hemorrhagic diseases. *Am J Ophthalmol* 1977;84:394-412.
- [401] Chadha V, Pandey PK, Chauhan D, Das S. Simultaneous intraocular and bilateral extraocular muscle involvement in a case of disseminated cysticercosis. *Int Ophthalmol* 2005;26:35-7.
- [402] Aracena T, Perez Roca E. Macular and peripheral subretinal cysticercosis. *Ann Ophthalmol* 1981;13:1265-7.
- [403] Yanoff M, editor. Case presentation. Washington DC: Verhoeff Society; 1975.
- [404] Barsante CF. Cysticercus sub-retinalis. In: Shimizu K, editor. Fluorescein angiography: proceedings of the international symposium on fluorescein angiography (ISFA), Tokyo, 1972. Tokyo: Igaku Shoin; 1974. p. 193-8.
- [405] Malik SRK, Gupta AK, Choudhry S. Ocular cysticercosis. *Am J Ophthalmol* 1968;66:1168-71.
- [406] Martinez-López M, Quiroz y Ferrari F. Cysticercosis. *J Clin Neuro-Ophthalmol* 1985;5:127-43.
- [407] Agarwal B, Vemuganti GK, Honavar SG. Intraocular cysticercosis simulating retinoblastoma in a 5-year-old child. *Eye* 2003;17:447-9.
- [408] Wei JW. Ultrasonic diagnosis of intraocular cysticercus. *Chung-Hua Yen Ko Tsa Chih* 1990;26:230-1.

- [409] Topilow HW, Yimoyines DJ, Freeman HM, et al. Bilateral multifocal intraocular cysticercosis. *Ophthalmology* 1981;88:1166–72.
- [410] Madigubba S, Vishwanath K, Reddy G, Vemuganti GK. Changing trends in ocular cysticercosis over two decades: an analysis of 118 surgically excised cysts. *Indian J Med Microbiol* 2007;25:214–9.
- [411] Cardenas F, Quiroz H, et al. 1992.
- [412] Sharma T, Sinha S, Shah N, et al. Intraocular cysticercosis: clinical characteristics and visual outcome after vitreoretinal surgery. *Ophthalmology* 2003;110:996–1004.
- [413] Mahendradas P, Biswas J, Khetan V. Fibrinous anterior uveitis due to cysticercus cellulosa. *Ocul Immunol Inflamm* 2007;15:451–4.
- [414] Kaliaperumal S, Rao VA, Parija SC. Cysticercosis of the eye in South India – a case series. *Indian J Med Microbiol* 2005;23:227–30.
- [415] Hutton WL, Vaiser A, Snyder WB. Pars plana vitrectomy for removal of intravitreal cysticercus. *Am J Ophthalmol* 1976;81:571–3.
- [416] Kruger-Leite E, Jalkh AE, Quiroz H, Schepens CL. Intraocular cysticercosis. *Am J Ophthalmol* 1985;99:252–7.
- [417] Santos R, Chavarria M, Aguirre AE. Failure of medical treatment in two cases of intraocular cysticercosis. *Am J Ophthalmol* 1984;97:249–50.
- [418] Steinmetz RL, Masket S, Sidikaro Y. The successful removal of a subretinal cysticercus by pars plana vitrectomy. *Retina* 1989;9:276–80.
- [419] Teekhasaene C, Ritch R, Kanchanaranya C. Ocular parasitic infection in Thailand. *Rev Infect Dis* 1986;8:350–6.
- [420] Gass JDM, Braunstein RA. Further observations concerning the diffuse unilateral subacute neuroretinitis syndrome. *Arch Ophthalmol* 1983;101:1689–97.
- [421] Gass JDM, Gilbert Jr WR, Guerry RK, Scelfo R. Diffuse unilateral subacute neuroretinitis. *Ophthalmology* 1978;85:521–45.
- [422] Gass JDM, Scelfo R. Diffuse unilateral subacute neuroretinitis. *J R Soc Med* 1978;71:95–111.
- [423] Parsons HE. Nematode chorioretinitis: report of a case, with photographs of a viable worm. *Arch Ophthalmol* 1952;47:799–800.
- [424] Price Jr JA, Wadsworth JAC. An intraretinal worm: report of a case of macular retinopathy caused by invasion of the retina by a worm. *Arch Ophthalmol* 1970;83:768–70.
- [425] Raymond LA, Gutierrez Y, Strong LE, et al. Living retinal nematode (filarial-like) destroyed with photocoagulation. *Ophthalmology* 1978;85:944–9.
- [426] Rubin ML, Kaufman HE, Tierney JP, Lucas HC. An intraretinal nematode (a case report). *Trans Am Acad Ophthalmol Otolaryngol* 1968;72:855–66.
- [427] Sivalingam A, Goldberg RE, Augsburg J, Frank P. Diffuse unilateral subacute neuroretinitis. *Arch Ophthalmol* 1991;109:1028.
- [428] de Souza EC, Abujamra S, Nakashima Y, Gass JD. Diffuse bilateral subacute neuroretinitis: first patient with documented nematodes in both eyes. *Arch Ophthalmol* 1999;117:1349–51.
- [429] Cunha de Souza E, Lustosa da Cunha S, Gass JDM. Diffuse unilateral subacute neuroretinitis in South America. *Arch Ophthalmol* 1992;110:1261–3.
- [430] Huff DS, Neafie RC, Binder MJ, et al. The first fatal Baylisascaris infection in humans: an infant with eosinophilic meningoencephalitis. *Pediatr Pathol* 1984;2:345–52.
- [431] Rasquin F, Waterschoot MP, Termote H, Carlier Y. Diffuse unilateral subacute neuroretinitis in Africa. *Ocul Immunol Inflamm* 2006;14:59–62.
- [432] Venkatesh P, Sarkar S, Garg S. Diffuse unilateral subacute neuroretinitis: report of a case from the Indian subcontinent and the importance of immediate photocoagulation. *Int Ophthalmol* 2005;26:251–4.
- [433] Cortez R, Denny JP, Muci-Mendoza R, et al. Diffuse unilateral subacute neuroretinitis in Venezuela. *Ophthalmology* 2005;112:2110–4.
- [434] Harto MA, Rodriguez-Salvador V, Avino JA, et al. Diffuse unilateral subacute neuroretinitis in Europe. *Eur J Ophthalmol* 1999;9:58–62.
- [435] Naumann GO, Knorr HL. DUSN occurs in Europe. *Ophthalmology* 1994;101:971–2.
- [436] Carney MD, Combs JL. Diffuse unilateral subacute neuroretinitis. *Br J Ophthalmol* 1991;75:633–5.
- [437] Kuchle M, Knorr HLJ, Medenblik-Frysch S, et al. Diffuse unilateral subacute neuroretinitis syndrome in a German most likely caused by the raccoon roundworm, *Baylisascaris procyonis*. *Graefes Arch Clin Exp Ophthalmol* 1993;231:48–51.
- [438] Oppenheim S, Rogell G, Peyser R. Diffuse unilateral subacute neuroretinitis. *Ann Ophthalmol* 1985;17:336–8.
- [439] Kelsey JH. Diffuse unilateral subacute neuroretinitis. *J R Soc Med* 1978;71:303–4.
- [440] Gass JDM. Stereoscopic atlas of macular diseases: diagnosis and treatment, 3rd ed. St Louis: CV Mosby; 1987. p. 474–75.
- [441] Kuhnt H. Extraction eines neuen Entozoon aus dem Glaskörper des Menschen. *Arch Augenheilkd* 1892;24:205–29.
- [442] Bowman DD. Personal communication. 1996.
- [443] Nichols RL. The etiology of visceral larva migrans. II. Comparative larval morphology of *ascaris Lumbricoides*, *necator americanus*, *strongyloides stercoralis*, and *acylostoma caninum*. *Parasitology* 1956;42:363–99.
- [444] Fox AS, Kazacos KR, Gould NS, et al. Fatal eosinophilic meningoencephalitis and visceral larva migrans caused by the raccoon ascarid, *Baylisascaris procyonis*. *N Engl J Med* 1985;312:1619–23.
- [445] Goldberg MA, Kazacos KR, Boyce WM, et al. Diffuse unilateral subacute neuroretinitis: morphometric, serologic, and epidemiologic support for *Baylisascaris* as a causative agent. *Ophthalmology* 1993;100:1695–701.
- [446] Kazacos KR, Raymond LA, Kazacos EA, Vestre WA. The raccoon ascarid: a probable cause of human ocular larva migrans. *Ophthalmology* 1985;92:1735–43.
- [447] Kazacos KR, Reed WM, Kazacos EA, Thacker HL. Fatal cerebrospinal disease caused by *Baylisascaris procyonis* in domestic rabbits. *J Am Vet Med Assoc* 1983;183:967–71.
- [448] Kazacos KR, Vestre WA, Kazacos EA, Raymond LA. Diffuse unilateral subacute neuroretinitis syndrome: probable cause. *Arch Ophthalmol* 1984;102:967–8.
- [449] Kazacos KR, Wirtz WL. Experimental cerebrospinal nematodiasis due to *Baylisascaris procyonis* in chickens. *Avian Dis* 1983;27:55–65.
- [450] Kazacos KR, Wirtz WL, Burger PP, Christmas CS. Raccoon ascarid larvae as a cause of fatal central nervous system disease in subhuman primates. *J Am Vet Med Assoc* 1981;179:1089–94.
- [451] Lewis RA, Discussion of Kazacos KR, Raymond LA, Kazacos EA, Vestre WA. The raccoon ascarid: a probable cause of human ocular larva migrans. *Ophthalmology* 1985;92:1743–44.
- [452] John T, Barsky HJ, Donnelly JJ, Rockey JH. Retinal pigment epitheliopathy and neuroretinal degeneration in ascarid-infected eyes. *Invest Ophthalmol Vis Sci* 1987;28:1583–98.
- [453] Mets MB, Noble AG, Basti S, et al. Eye findings of diffuse unilateral subacute neuroretinitis and multiple choroidal infiltrates associated with neural larva migrans due to *Baylisascaris*

- procyonis. *Am J Ophthalmol* 2003;135:888–90.
- [454] Gass JDM, Callanan DG, Bowman B. Oral therapy in diffuse unilateral subacute neuroretinitis. *Arch Ophthalmol* 1992;110:675–80.
- [455] Anderson J, Font RL. Ocular onchocerciasis. In: Binford CH, Connor DH, editors. *Pathology of tropical and extraordinary diseases*. Washington DC: Armed Forces Institute of Pathology; 1976. p. 373–81.
- [456] Bird AC, Anderson J, Fuglsang H. Morphology of posterior segment lesions of the eye in patients with onchocerciasis. *Br J Ophthalmol* 1976;60:2–20.
- [457] Bird AC, El Sheikh H, Anderson J, Fuglsang H. Changes in visual function and in the posterior segment of the eye during treatment of onchocerciasis with diethylcarbamazine citrate. *Br J Ophthalmol* 1980;64:191–200.
- [458] Murphy RP, Taylor H, Greene BM. Chorioretinal damage in onchocerciasis. *Am J Ophthalmol* 1984;98:519–21.
- [459] Neumann E, Gunders AE. Pathogenesis of the posterior segment lesion of ocular onchocerciasis. *Am J Ophthalmol* 1973;75:82–9.
- [460] Newland HS, White AT, Greene BM, et al. Ocular manifestations of onchocerciasis in a rain forest area of West Africa. *Br J Ophthalmol* 1991;75:163–9.
- [461] Rodger FC. The pathogenesis and pathology of ocular onchocerciasis. Part IV. The pathology. *Am J Ophthalmol* 1960;49:327–37.
- [462] Taylor HR, Greene BM. Ocular changes with oral and transepidermal diethylcarbamazine therapy of onchocerciasis. *Br J Ophthalmol* 1981;65:494–502.
- [463] Chan C-C, Nussenblatt RB, Kim MK, et al. Immunopathology of ocular onchocerciasis. 2. Anti-retinal autoantibodies in serum and ocular fluids. *Ophthalmology* 1987;94:439–43.
- [464] Van der Lelij A, Rothova A, Stijlma JS, et al. Cell-mediated immunity against human retinal extract, S-antigen, and interphotoreceptor retinoid binding protein in onchocercal chorioretinopathy. *Invest Ophthalmol Vis Sci* 1990;31:2031–6.
- [465] Semba RD, Murphy RP, Newland HS, et al. Longitudinal study of lesions of the posterior segment in onchocerciasis. *Ophthalmology* 1990;97:1334–41.
- [466] Dadzie KY, Bird AC, Awadzi K, et al. Ocular findings in a double-blind study of ivermectin versus diethylcarbamazine versus placebo in the treatment of onchocerciasis. *Br J Ophthalmol* 1987;71:78–85.
- [467] Deng G, Lin H, Seidman A, et al. A phase I/II trial of a polysaccharide extract from *Grifola frondosa* (Maitake mushroom) in breast cancer patients: immunological effects. *J Cancer Res Clin Oncol* 2009;135:1215–21.
- [468] Taylor HR, Murphy RP, Newland HS, et al. Treatment of onchocerciasis: the ocular effects of ivermectin and diethylcarbamazine. *Arch Ophthalmol* 1986;104:863–70.
- [469] Taylor HR. Ivermectin treatment of ocular onchocerciasis. *Acta Leidensia* 1990;59:201–6.
- [470] Winter FC. The control of onchocerciasis. *Am J Ophthalmol* 1989;108:84–5.
- [471] Boussinesq M, Gardon J, Gardon-Wendel N, Chippaux JP. Clinical picture, epidemiology and outcome of Loa-associated serious adverse events related to mass ivermectin treatment of onchocerciasis in Cameroon. *Filaria J* 2003;2(Suppl. 1):S4.
- [472] Padgett JJ, Jacobsen KH. Loiasis: African eye worm. *Trans R Soc Trop Med Hyg* 2008;102:983–9.
- [473] Mittal M, Sathish KR, Bhatia PG, Chidamber BS. Ocular dirofilariasis in Dubai, UAE. *Indian J Ophthalmol* 2008;56:325–6.
- [474] Juri J, Kuzman T, Stiglmayer N, Tojagic M. A case of lacrimal gland dirofilariasis. *Ophthalmologica* 2007;221:204–6.
- [475] Mahesh G, Giridhar A, Biswas J, et al. A case of periocular dirofilariasis masquerading as a lid tumour. *Indian J Ophthalmol* 2005;53:63–4.
- [476] Aiello A, Aiello P, Aiello F. A case of palpebral dirofilariasis. *Eur J Ophthalmol* 2005;15:407–8.
- [477] Angunawela RI, Ataullah S, Whitehead KJ, Sullivan TJ, Rosser P. Dirofilarial infection of the orbit. *Orbit* 2003;22:41–6.
- [478] Frieling E, Fritz E, Schmidt U, et al. Vitreoretinale Dirofilariose. *Klins Monatsbl Augenheilkd* 1990;196:233–6.
- [479] Gutierrez Y. Diagnostic pathology of parasitic infections with clinical correlations. Philadelphia: Lea and Febiger; 1990. p. 323–24.
- [480] Kerkenezov N. Intra-ocular filariasis in Australia. *Br J Ophthalmol* 1962;46:607–15.
- [481] Moorhouse DE. *Dirofilaria immitis*: a cause of human intra-ocular infection. *Infection* 1978;6:192–3.
- [482] Vodovozov AM, Jarulin GR, Djakonowa SW. *Dirofilaria im* Glaskörper des Menschen. *Ophthalmologica* 1973;166:88–93.
- [483] Gungel H, Kara N, Pinarci EY, et al. An uncommon case with intravitreal worm. *Intravitreal Dirofilaria infection*. *Br J Ophthalmol* 2009;93:573–4. [697.]
- [484] Yamamoto S, Hayashi M, Takeuchi S. Surgically removed submacular nematode. *Br J Ophthalmol* 1999;83:1088.
- [485] Sathyan P, Manikandan P, Bhaskar M, et al. Subtenons infection by *Dirofilaria repens*. *Indian J Med Microbiol* 2006;24:61–2.
- [486] Stringfellow GJ, Francis IC, Coroneo MT, Walker J. Orbital dirofilariasis. *Clin Experiment Ophthalmol* 2002;30:378–80.
- [487] Strianese D, Martini A, Molfino G, et al. Orbital dirofilariasis. *Eur J Ophthalmol* 1998;8:258–62.
- [488] Gorezis S, Psilla M, Asproudis I, et al. Intravitreal dirofilariasis: a rare ocular infection. *Orbit* 2006;25:57–9.
- [489] Dissanaiké AS, Ramalingam S, Fong A, et al. Filaria in the vitreous of the eye of man in peninsular Malaysia. *Am J Trop Med Hyg* 1977;26(6 Pt 1):1143–7.
- [490] Rao NG, Mahapatra SK, Pattnayak S, Pattnaik K. Intravitreal live adult *Brugian filariasis*. *Indian J Ophthalmol* 2008;56:76–8.
- [491] Samarasinghe S, Pathirana S. A juvenile filarial worm, *Wuchereria bancrofti*, extracted from the vitreous of the eye: the first report in the world literature. *Ceylon Med J* 2005;50:167–8.
- [492] Fernando D. Intra-ocular nematode worms: rare but important. *Ceylon Med J* 2005;50:141–3.
- [493] Bain O, Kusaladharna PI, Weerasooriya MV, et al. An immature filarial worm, probably *Wuchereria bancrofti*, from the anterior chamber of the eye in a patient from Sri Lanka. *Parasite* 2002;9:282–4.
- [494] Madangopal AV. Live male adult *W. bancrofti* in the anterior chamber. *Indian J Ophthalmol* 1990;38:148.
- [495] Arora Y, Das RN. Live male adult *W. bancrofti* in the anterior chamber – a case report. *Indian J Ophthalmol* 1990;38:92–3.
- [496] Beaver PC. Intraocular filariasis: a brief review. *Am J Trop Med Hyg* 1989;40:40–5.
- [497] Bhagwat RD, Rao LK, Deodhar LP. Parasite in the anterior chamber of the eye. A case report. *Indian J Ophthalmol* 1973;21:34–5.
- [498] Subramanian SP. *Microfilaria* in anterior chamber of the eye. *J Indian Med Assoc* 1966;47:503–4.
- [499] Sun KY. A case of *Wuchereria bancrofti* microfilaria in the anterior chamber. *Chin Med J* 1958;77:74–5.
- [500] Chatterji KC. Adult filaria (*bancrofti*) in the anterior chamber of human eye. *J Indian Med Assoc* 1954;24:146–7.
- [501] Nanavaty MA, Nanavaty AJ, Lakhani JD, et al. Subconjunctival adult *bancroftian* filarial worm. *Indian J Ophthalmol* 2001;49:195–6.
- [502] Dissanaiké AS, Bandara CD, Padmini HH, et al. Recovery of a

- species of *Brugia*, probably *B. ceylonensis*, from the conjunctiva of a patient in Sri Lanka. *Ann Trop Med Parasitol* 2000;94:83–6.
- [503] Gupta A, Agarwal A, Dogra MR. Retinal involvement in *Wucheria bancrofti* filariasis. *Acta Ophthalmol (Copenh)* 1992;70:832–70835.
- [504] Bhattacharjee H, Das D, Medhi J. Intravitreal gnathostomiasis and review of literature. *Retina* 2007;27:67–73.
- [505] Diaz Camacho SP, Willms K, de la Cruz Otero Mdel C, et al. Acute outbreak of gnathostomiasis in a fishing community in Sinaloa, Mexico. *Parasitol Int* 2003;52:133–40.
- [506] Ollague W, Ollague J, Guevara de Veliz A, Penaherrera S. Human gnathostomiasis in Ecuador (nodular migratory eosinophilic panniculitis). First finding of the parasite in South America. *Int J Dermatol* 1984;23:647–51.
- [507] Bathrick ME, Mango CA, Mueller JF. Intraocular gnathostomiasis. *Ophthalmology* 1981;88:1293–5.
- [508] Funata M, Custis P, De La Cruz Z, et al. Intraocular gnathostomiasis. *Retina* 1993;13:240–4.
- [509] Hernández Ortiz G, Nesmek J, Flores CJ, Hernández CPE. Gnathostomiasis humana. Manifestaciones oculares. *An Soc Mex Oftalmol* 1982;56:65–73.
- [510] Kittiponghansa S, Prabripataloong A, Pariyanonda S, Ritch R. Intracameral gnathostomiasis: a cause of anterior uveitis and secondary glaucoma. *Br J Ophthalmol* 1987;71:618–22.
- [511] Barua P, Hazarika NK, Barua N, et al. Gnathostomiasis of the anterior chamber. *Indian J Med Microbiol* 2007;25:276–8.
- [512] Bhende M, Biswas J, Gopal L. Ultrasound biomicroscopy in the diagnosis and management of intraocular gnathostomiasis. *Am J Ophthalmol* 2005;140:140–2.
- [513] Xuan le T, Rojekittikhun W, Punpoowong B, et al. Case report: intraocular gnathostomiasis in Vietnam. *Southeast Asian J Trop Med Public Health* 2002;33:485–9.
- [514] Qahtani F, Deschenes J, Ali-Khan Z, et al. Intraocular gnathostomiasis: a rare Canadian case. *Can J Ophthalmol* 2000;35:35–9.
- [515] Rao VA, Pravin T, Parija SC. Intracameral gnathostomiasis: a first case report from Pondicherry. *J Commun Dis* 1999;31:197–8.
- [516] Biswas J, Gopal L, Sharma T, Badrinath SS. Intraocular *Gnathostoma spinigerum*. Clinicopathologic study of two cases with review of literature. *Retina* 1994;14:438–44.
- [517] Funata M, Custis P, de la Cruz Z, et al. Intraocular gnathostomiasis. *Retina* 1993;13:240–4.
- [518] Bathrick ME, Mango CA, Mueller JF. Intraocular gnathostomiasis. *Ophthalmology* 1981;88:1293–5.
- [519] Goodart RA, Riekhof FT, Beaver PC. Subretinal nematode: an unusual etiology for uveitis and retinal detachment. *Retina* 1985;5:87–90.
- [520] Sawanyawisuth K, Takahashi K, Hoshuyama T, et al. Clinical factors predictive of encephalitis caused by *Angiostrongylus cantonensis*. *Am J Trop Med Hyg* 2009;81:698–701.
- [521] Sinawat S, Sanguansak T, Angkawinijwong T, et al. Ocular angiostrongyliasis: clinical study of three cases. *Eye (Lond)* 2008;22:1446–8.
- [522] Sawanyawisuth K, Kitthaweesin K, Limpawattana P, et al. Intraocular angiostrongyliasis: clinical findings, treatments and outcomes. *Trans R Soc Trop Med Hyg* 2007;101:497–501.
- [523] Patikulasila D, Ittipunkul N, Theerakittikul B. Intravitreal angiostrongyliasis: report of 2 cases. *J Med Assoc Thai* 2003;86:981–5.
- [524] Sawanyawisuth K, Kitthaweesin K. Optic neuritis caused by intraocular angiostrongyliasis. *Southeast Asian J Trop Med Public Health* 2008;39:1005–7.
- [525] Tu WC, Lai SC. *Angiostrongylus cantonensis*: efficacy of albendazole–dexamethasone co-therapy against infection-induced plasminogen activators and eosinophilic meningitis. *Exp Parasitol* 2006;113:8–15.
- [526] Malhotra S, Mehta DK, Arora R, et al. Ocular angiostrongyliasis in a child – first case report from India. *J Trop Pediatr* 2006;52:223–5.
- [527] Ramirez-Avila L, Slome S, Schuster FL, et al. Eosinophilic meningitis due to *Angiostrongylus* and *Gnathostoma* species. *Clin Infect Dis* 2009;48:322–7.
- [528] Graeff-Teixeira C, da Silva AC, Yoshimura K. Update on eosinophilic meningoencephalitis and its clinical relevance. *Clin Microbiol Rev* 2009;22:322–48. [Table of Contents.]
- [529] Kearney MS, Nilssen AC, Lyslo A, et al. Ophthalmomyiasis caused by the reindeer warble fly larva. *J Clin Pathol* 1991;44:276–84.
- [530] Chodosh J, Clarridge J. Ophthalmomyiasis: a review with special reference to *Cochliomyia hominivorax*. *Clin Infect Dis* 1992;14:444–9.
- [531] Custis PH, Pakalnis VA, Klintworth GK, et al. Posterior internal ophthalmomyiasis; identification of a surgically removed *Cuterebra* larva by scanning electron microscopy. *Ophthalmology* 1983;90:1583–90.
- [532] Dixon JM, Winkler CH, Nelson JH. Ophthalmomyiasis interna caused by *Cuterebra* larva. *Trans Am Ophthalmol Soc* 1969;67:110–5.
- [533] O'Brien CS, Allen JH. Ophthalmomyiasis interna anterior: report of *Hypoderma* larva in anterior chamber. *Am J Ophthalmol* 1939;22:996–8.
- [534] Syrdalen P, Nitter T, Mehl R. Ophthalmomyiasis interna posterior: report of case caused by the reindeer warble fly larva and review of previous reported cases. *Br J Ophthalmol* 1982;66:589–93.
- [535] Baird CR. Development of *Cuterebra jellisoni* (diptera: cuterebridae) in six species of rabbits and rodents. *J Med Entomol* 1971;8:615–22.
- [536] Rapoza PA, Michels RG, Semeraro RJ, Green WR. Vitrectomy for excision of intraocular larva (*Hypoderma* species). *Retina* 1986;6:99–104.
- [537] Cameron JA, Shoukrey NM, Al-Garni AA. Conjunctival ophthalmomyiasis by the sheep nasal botfly (*Oestrus ovis*). *Am J Ophthalmol* 1991;112:331–4.
- [538] Kersten RC, Shoukrey NM, Tabbara KF. Orbital myiasis. *Ophthalmology* 1986;93:1228–32.
- [539] Savino DF, Margo CE, McCoy ED, Friedl FE. Dermal myiasis of the eyelid. *Ophthalmology* 1986;93:1225–7.
- [540] Zumpt F. Ophthalmomyiasis in man, with special reference to the situation in Southern Africa. *S Afr Med J* 1963;37:425–8.
- [541] Ziemanski MC, Lee KY, Sabates FN. Ophthalmomyiasis interna. *Arch Ophthalmol* 1980;98:1588–9.
- [542] Vine AK, Schatz H. Bilateral posterior internal ophthalmomyiasis. *Ann Ophthalmol* 1981;13:1041–3.
- [543] Syrdalen P, Stenkula S. Ophthalmomyiasis interna posterior. *Graefes Arch Clin Exp Ophthalmol* 1987;25:103–6.
- [544] Steahly LP, Peterson CA. Ophthalmomyiasis. *Ann Ophthalmol* 1982;14:137–9.
- [545] Slusher MM, Holland WD, Weaver RG, Tyler ME. Ophthalmomyiasis interna posterior: subretinal tracks and intraocular larvae. *Arch Ophthalmol* 1979;97:885–7.
- [546] Potgieter F, Scheuer JA. Ophthalmomyiasis met subretinale spore; 'n gevalbespreking. *S Afr Med J* 1979;55:957–8.
- [547] Anderson WB. Ophthalmomyiasis interna: case report and review of the literature. *Trans Am Acad Ophthalmol Otolaryngol* 1934;39:218–38.
- [548] DeBoe MP. Dipterous larva passing from the optic nerve into the vitreous chamber. *Arch Ophthalmol* 1933;10:824–5.



- [549] Edwards KM, Meredith TA, Hagler WS, Healy GR. Ophthalmomyiasis interna causing visual loss. *Am J Ophthalmol* 1984;97:605-10.
- [550] Fitzgerald CR, Rubin ML. Intraocular parasite destroyed by photocoagulation. *Arch Ophthalmol* 1974;91:162-4.
- [551] Forman AR, Cruess AF, Benson WE. Ophthalmomyiasis treated by argon-laser photocoagulation. *Retina* 1984;4:163-5.
- [552] Gass JDM, Lewis RA. Subretinal tracks in ophthalmomyiasis. *Arch Ophthalmol* 1976;94:1500-5.
- [553] Haut J, Ullern M, Marre JM, et al. Présentation d'un nouveau cas de parasitose endoculaire: Myiase. *Bull Soc Ophthalmol Fr* 1977;77:929-30.
- [554] Hunt Jr EW. Unusual case of ophthalmomyiasis interna posterior. *Am J Ophthalmol* 1970;70:978-80.
- [555] Mason GI. Bilateral ophthalmomyiasis interna. *Am J Ophthalmol* 1981;91:65-70.
- [555a] Sorrentino, Forleo, et al. 2009.
- [556] Glasgow BJ, Maggiano JM. Cuterebra ophthalmomyiasis. *Am J Ophthalmol* 1995;119:512-4.
- [557] Perry HD, Donnenfeld ED, Font RL. Intracorneal ophthalmomyiasis. *Am J Ophthalmol* 1990;109:741-2.
- [558] Campbell RJ, Steele JC, Cox TA, et al. Pathologic findings in the retinal pigment epitheliopathy associated with the amyotrophic lateral sclerosis/Parkinsonism-dementia complex of Guam. *Ophthalmology* 1993;100:37-42.
- [559] Cox TA, McDarby JV, Lavine L, et al. A retinopathy on Guam with high prevalence in Lytico-Bodig. *Ophthalmology* 1989;96:1731-5.
- [560] Hanlon SD, Steele JC. An unusual retinal pigment epitheliopathy endemic to the island of Guam. *Optom Vis Sci* 1993;70:854-9.
- [561] Litricin O. Echinococcus cyst of the eye ball. *Arch Ophthalmol* 1953;50:506-9.
- [562] Sinav S, Demirci A, Sinav B, et al. A primary intraocular hydatid cyst. *Acta Ophthalmol* 1991;69:802-4.
- [563] Dalimi A, Jabarvand M. Fasciola hepatica in the human eye. *Trans R Soc Trop Med Hyg* 2005;99:798-800.
- [564] Dickinson AJ, Rosenthal AR, Nicholson KG. Inflammation of the retinal pigment epithelium: a unique presentation of ocular schistosomiasis. *Br J Ophthalmol* 1990;74:440-2.
- [565] Freeman RS, Stuart PF, Cullen JB, et al. Fatal human infection with *Alaria americanus*. *Am J Trop Med Hyg* 1976;25:803.
- [566] McDonald HR, Kazacos KR, Schatz H, Johnson RN. Two cases of intraocular infection with *Alaria mesocercaria* (Trematoda). *Am J Ophthalmol* 1994;117:447-55.
- [567] Shea M, Maberley AL, Walters J, et al. Intraretinal larval trematode. *Trans Am Acad Ophthalmol Otolaryngol* 1973;77:OP784-OP791.
- [568] Kabo AM, Warter A. Apropos of 1 case of ophthalmologic manifestation of bilharziasis. *Bull Soc Pathol Exot* 1993;86:174-5.
- [569] Stein PC, Char DH. Intraocular granuloma: a *Schistosoma mansoni* model of ocular inflammation. *Invest Ophthalmol Vis Sci* 1982;23:479-88.
- [570] Vedy J, Carrica A, Rivaud C, et al. A case of retinitis in a patient with schistosomiasis (author's transl). *Med Trop (Mars)* 1979;39:603-9.
- [571] Jayakumar D, Kavitha S, Rathinam S, Vasanthi G. Geomapping of trematode-induced granulomatous anterior uveitis - a newly identified cause of blindness among children in the Pudukkottai district of the Tamil Nadu State, India. *Geospat Health* 2009;4:55-63.
- [572] Rathinam SR, Usha KR, Rao NA. Presumed trematode-induced granulomatous anterior uveitis: a newly recognized cause of intraocular inflammation in children from south India. *Am J Ophthalmol* 2002;133:773-9.
- [573] Rathinam S, Fritsche TR, Srinivasan M, et al. An outbreak of trematode-induced granulomas of the conjunctiva. *Ophthalmology* 2001;108:1223-9.
- [574] Haynes RE, Sanders DY, Cramblett HG. Rocky Mountain spotted fever in children. *J Pediatr* 1970;76:685-93.
- [575] Cherubini TD, Spaeth GL. Anterior nongranulomatous uveitis associated with Rocky Mountain spotted fever: first report of a case. *Arch Ophthalmol* 1969;81:363-5.
- [576] Duffey RJ, Hammer ME. The ocular manifestations of Rocky Mountain spotted fever. *Ann Ophthalmol* 1987;19:301-6.
- [577] Presley GD. Fundus changes in Rocky Mountain spotted fever. *Am J Ophthalmol* 1969;67:263-7.
- [578] Raab EL, Leopold IH, Hodes HL. Retinopathy in Rocky Mountain spotted fever. *Am J Ophthalmol* 1969;68:42-6.
- [579] Smith TW, Burton TC. The retinal manifestations of Rocky Mountain spotted fever. *Am J Ophthalmol* 1977;84:259-62.
- [580] Sulewski ME, Green WR. Ocular histopathologic features of a presumed case of Rocky Mountain spotted fever. *Retina* 1986;6:125-30.
- [581] Chamberlain Jr WP. Ocular findings in scrub typhus. *Arch Ophthalmol* 1952;48:313-21.
- [582] Manor E, Politi F, Marmor A, Cohn DF. Papilledema in endemic typhus. *Am J Ophthalmol* 1977;84:559-62.
- [583] Marcus DM, Frederick Jr AR, Hodges T, et al. Photo essay. Typhoidal tularemia. *Arch Ophthalmol* 1990;108:118-9.
- [584] Scheie HG. Ocular changes associated with scrub typhus: a study of four hundred and fifty-one patients. *Arch Ophthalmol* 1948;40:245-67.
- [585] Chawla HB, Ford MJ, Munro JF, et al. Ocular involvement in cytomegalovirus infection in a previously healthy adult. *Br Med J* 1976;2:281-2.
- [586] Rowe WP, Hartley JW, Waterman S, et al. Cytopathogenic agent resembling human salivary gland virus recovered from tissue cultures of human adenoids. *Proc Soc Exp Biol Med* 1956;92:418-24.
- [587] Pepose J, Kreiger AE, Tomiyasu U, et al. Immunocytologic localization of herpes simplex type 1 viral antigens in herpetic retinitis and encephalitis in an adult. *Ophthalmology* 1985;92:160-6.
- [588] Gross JG, Bozzette SA, Mathews WC, et al. Longitudinal study of cytomegalovirus retinitis in acquired immune deficiency syndrome. *Ophthalmology* 1990;97:681-6.
- [589] Jabs DA, Enger C, Bartlett JG. Cytomegalovirus retinitis and acquired immunodeficiency syndrome. *Arch Ophthalmol* 1989;107:75-80.
- [590] Ornoy A. Fetal effects of primary and non-primary cytomegalovirus infection in pregnancy: are we close to prevention? *Isr Med Assoc J* 2007;9:398-401.
- [591] Barampouti F, Rajan M, Aclimandos W. Should active CMV retinitis in non-immunocompromised newborn babies be treated? *Br J Ophthalmol* 2002;86:248-9.
- [592] Cochereau-Massin I, Lehoang P, Lautier-Frau M, et al. Efficacy and tolerance of intravitreal ganciclovir in cytomegalovirus retinitis in acquired immune deficiency syndrome. *Ophthalmology* 1991;98:1348-53.
- [593] Sison RF, Holland GN, MacArthur LJ, et al. Cytomegalovirus retinopathy as the initial manifestation of the acquired immunodeficiency syndrome. *Am J Ophthalmol* 1991;112:243-9.
- [594] Holland GN. The management of retinal detachments in patients with acquired immunodeficiency syndrome [editorial]. *Arch Ophthalmol* 1991;109:791-3.
- [595] Holland GN, Sison RF, Jatulis DE, et al. Survival of patients with the acquired immune deficiency syndrome after development of

- cytomegalovirus retinopathy. *Ophthalmology* 1990;97:204–11.
- [596] CMV retinitis trial: announcement. *Retina* 1990;10:323–24.
- [597] Augsburger JJ, Henry RY. Retinal aneurysms in adult cytomegalovirus retinitis. *Am J Ophthalmol* 1978;86:794–7.
- [598] To KW, Nadel AJ. Atypical presumed CMV retinitis. *Graefes Arch Clin Exp Ophthalmol* 1989;227:535–7.
- [599] Broughton WL, Cupples HP, Parver LM. Bilateral retinal detachment following cytomegalovirus retinitis. *Arch Ophthalmol* 1978;96:618–9.
- [600] Kuppermann BD, Petty JG, Richman DD, et al. Correlation between CD41 counts and prevalence of cytomegalovirus retinitis and human immunodeficiency virus-related noninfectious retinal vasculopathy in patients with acquired immunodeficiency syndrome. *Am J Ophthalmol* 1993;115:575–82.
- [601] Faber DW, Crapotta JA, Wiley CA, et al. Retinal calcifications in cytomegalovirus retinitis. *Retina* 1993;13:46–9.
- [602] Fay MT, Freeman WR, Wiley CA, et al. Atypical retinitis in patients with the acquired immunodeficiency syndrome. *Am J Ophthalmol* 1988;105:483–90.
- [603] Nanda M, Curtin VT, Hilliard JK, et al. Ocular histopathologic findings in a case of human herpes B virus infection. *Arch Ophthalmol* 1990;108:713–6.
- [604] Fahy BN, D'Angelica M, DeMatteo RP, et al. Synchronous hepatic metastases from colon cancer: changing treatment strategies and results of surgical intervention. *Ann Surg Oncol* 2009;16:361–70.
- [605] Gross JG, Sadun AA, Wiley CA, Freeman WR. Severe visual loss related to isolated peripapillary retinal and optic nerve head cytomegalovirus infection. *Am J Ophthalmol* 1989;108:691–8.
- [606] Burns RP. Cytomegalic inclusion disease uveitis: report of a case with isolation from aqueous humor of the virus in tissue culture. *Arch Ophthalmol* 1959;61:376–87.
- [607] Gangan PA, Besen G, Munguia D, Freeman WR. Macular serous exudation in patients with acquired immunodeficiency syndrome and cytomegalovirus retinitis. *Am J Ophthalmol* 1994;118:212–9.
- [608] Bachman DM, Rodrigues MM, Chu FC, et al. Culture-proven cytomegalovirus retinitis in a homosexual man with the acquired immunodeficiency syndrome. *Ophthalmology* 1982;89:797–804.
- [609] Geier SA, Nasemann J, Klauss V, et al. Frosted branch angiitis associated with cytomegalovirus retinitis. *Am J Ophthalmol* 1992;114:514–5.
- [610] Geier SA, Nasemann J, Klauss V, et al. Frosted branch angiitis in a patient with the acquired immunodeficiency syndrome. *Am J Ophthalmol* 1992;113:203–5.
- [611] Secchi AG, Tognon MS, Turrini B, et al. Acute frosted retinal periphlebitis associated with cytomegalovirus retinitis. *Retina* 1992;12:245–7.
- [612] Spaide RF, Vitale AT, Toth IR, Oliver JM. Frosted branch angiitis associated with cytomegalovirus retinitis. *Am J Ophthalmol* 1992;113:522–8.
- [613] Rabb MF, Jampol LM, Fish RH, et al. Retinal periphlebitis in patients with acquired immunodeficiency syndrome with cytomegalovirus retinitis mimics acute frosted retinal periphlebitis. *Arch Ophthalmol* 1992;110:1257–60.
- [614] Lee S, Ai E. Disc neovascularization in patients with AIDS and cytomegalovirus retinitis. *Retina* 1991;11:305–8.
- [615] Dugel PU, Liggett PE, Lee MB, et al. Repair of retinal detachment caused by cytomegalovirus retinitis in patients with the acquired immunodeficiency syndrome. *Am J Ophthalmol* 1991;112:235–42.
- [616] Freeman WR, Friedberg DN, Berry C, et al. Risk factors for development of rhegmatogenous retinal detachment in patients with cytomegalovirus retinitis. *Am J Ophthalmol* 1993;116:713–20.
- [617] Freeman WR, Quiceno JI, Crapotta JA, et al. Surgical repair of rhegmatogenous retinal detachment in immunosuppressed patients with cytomegalovirus retinitis. *Ophthalmology* 1992;99:466–74.
- [618] Jabs DA, Enger C, Haller J, et al. Retinal detachments in patients with cytomegalovirus retinitis. *Arch Ophthalmol* 1991;109:794–9.
- [619] Sidikaro Y, Silver L, Holland GN, et al. Rhegmatogenous retinal detachments in patients with AIDS and necrotizing retinal infections. *Ophthalmology* 1991;98:129–35.
- [620] Meredith TA, Aaberg TM, Reeser FH. Rhegmatogenous retinal detachment complicating cytomegalovirus retinitis. *Am J Ophthalmol* 1979;87:793–6.
- [621] Minckler DS, McLean EB, Shaw CM, et al. Herpesvirus hominis encephalitis and retinitis. *Arch Ophthalmol* 1976;94:89–95.
- [622] Goto S, Bhatt DL, Rother J, et al. Prevalence, clinical profile, and cardiovascular outcomes of atrial fibrillation patients with atherothrombosis. *Am Heart J* 2008;156:855–63. [63 e2.]
- [623] Lewis ML, Culbertson WW, Post JD, et al. Herpes simplex virus type 1: a cause of the acute retinal necrosis syndrome. *Ophthalmology* 1989;96:875–8.
- [624] Liu YH, D'Ambrosio M, Liao TD, et al. N-acetyl-seryl-aspartyl-lysyl-proline prevents cardiac remodeling and dysfunction induced by galectin-3, a mammalian adhesion/growth-regulatory lectin. *Am J Physiol Heart Circ Physiol* 2009;296:H404–12.
- [625] Chumbley LC, Robertson DM, Smith TF, et al. Adult cytomegalovirus inclusion retino-uveitis. *Am J Ophthalmol* 1975;80:807–16.
- [626] Nahmias AJ, Josey WE, Naib ZM, et al. Perinatal risk associated with maternal genital herpes simplex virus infection. *Am J Obstet Gynecol* 1971;110:825–37.
- [627] Tarkkanen A, Laatikainen L. Late ocular manifestations in neonatal herpes simplex infection. *Br J Ophthalmol* 1977;61:608–16.
- [628] Cox F, Meyer D, Hughes WT. Cytomegalovirus in tears from patients with normal eyes and with acute cytomegalovirus chorioretinitis. *Am J Ophthalmol* 1975;80:817–24.
- [629] Whittum JA, McCulley JP, Niederkorn JY, et al. Ocular disease induced in mice by anterior chamber inoculation of herpes simplex virus. *Invest Ophthalmol Vis Sci* 1984;25:1065–73.
- [630] Wyhinny GJ, Apple DJ, Guastella FR, et al. Adult cytomegalic inclusion retinitis. *Am J Ophthalmol* 1973;76:773–81.
- [631] Faber DW, Wiley CA, Lynn GB, et al. Role of HIV and CMV in the pathogenesis of retinitis and retinal vasculopathy in AIDS patients. *Invest Ophthalmol Vis Sci* 1992;33:2345–53.
- [632] Skolnik PR, Pomerantz RJ, de la Monte SM, et al. Dual infection of retina with human immunodeficiency virus type 1 and cytomegalovirus. *Am J Ophthalmol* 1989;107:361–72.
- [633] Roth AM, Purcell TW. Ocular findings associated with encephalomyelitis caused by Herpesvirus simiae. *Am J Ophthalmol* 1977;84:345–8.
- [634] Holland GN, Sidikaro Y, Kreiger AE, et al. Treatment of cytomegalovirus retinopathy with ganciclovir. *Ophthalmology* 1987;94:815–23.
- [635] Cantrill HL, Henry K, Melroe NH, et al. Treatment of cytomegalovirus retinitis with intravitreal ganciclovir: long-term results. *Ophthalmology* 1989;96:367–74.
- [636] Henderly DE, Freeman WR, Causey DM, et al. Cytomegalovirus retinitis and response to therapy with ganciclovir. *Ophthalmology* 1987;94:425–34.
- [637] Jabs DA, Newman C, DeBustros S, et al. Treatment of cytomegalovirus retinitis with ganciclovir. *Ophthalmology* 1987;94:824–30.
- [638] Pepose JS, Newman C, Bach MC, et al. Pathologic features of

- cytomegalovirus retinopathy after treatment with the antiviral agent ganciclovir. *Ophthalmology* 1987;94:414-24.
- [639] Keefe KS, Freeman WR, Peterson TJ, et al. Atypical healing of cytomegalovirus retinitis: significance of persistent border opacification. *Ophthalmology* 1992;99:1377-84.
- [640] Digre KB, Blodi CF, Bale JF. Cytomegalovirus infection in a healthy adult associated with recurrent branch retinal artery occlusion. *Retina* 1987;7:230-2.
- [641] Bachman DM, Bruni LM, DiGioia RA, et al. Visual field testing in the management of cytomegalovirus retinitis. *Ophthalmology* 1992;99:1393-9.
- [642] Johnson BL, Wisotzkey HM. Neuroretinitis associated with herpes simplex encephalitis in an adult. *Am J Ophthalmol* 1977;83:481-9.
- [643] Freeman WR. Intraocular antiviral therapy [editorial]. *Arch Ophthalmol* 1989;107:1737-9.
- [644] Heinemann M-H. Long-term intravitreal ganciclovir therapy for cytomegalovirus retinopathy. *Arch Ophthalmol* 1989;107:1767-72.
- [645] Thompson WS, Culbertson WW, Smiddy WE, et al. Acute retinal necrosis caused by reactivation of herpes simplex virus type 2. *Am J Ophthalmol* 1994;118:205-11.
- [646] Uninsky E, Jampol LM, Kaufman S, et al. Disseminated herpes simplex infection with retinitis in a renal allograft recipient. *Ophthalmology* 1983;90:175-8.
- [647] Anand R, Font RL, Fish RH, et al. Pathology of cytomegalovirus retinitis treated with sustained release intravitreal ganciclovir. *Ophthalmology* 1993;100:1032-9.
- [648] Sanborn GE, Anand R, Torti RE, et al. Sustained-release ganciclovir therapy for treatment of cytomegalovirus retinitis: use of an intravitreal device. *Arch Ophthalmol* 1992;110:188-95.
- [649] Smith TJ, Pearson PA, Blandford DL, et al. Intravitreal sustained-release ganciclovir. *Arch Ophthalmol* 1992;110:255-8.
- [650] Flores-Aguilar M, Kuppermann BD, Quiceno JI, et al. Pathophysiology and treatment of clinically resistant cytomegalovirus retinitis. *Ophthalmology* 1993;100:1022-31.
- [651] Kuppermann BD, Flores-Aguilar M, Quiceno JI, et al. Combination ganciclovir and foscarnet in the treatment of clinically resistant cytomegalovirus retinitis in patients with acquired immunodeficiency syndrome. *Arch Ophthalmol* 1993;111:1359-66.
- [652] Lehoang P, Girard B, Robinet M, et al. Foscarnet in the treatment of cytomegalovirus retinitis in acquired immune deficiency syndrome. *Ophthalmology* 1989;96:865-74.
- [653] Robinson MR, Teitelbaum C, Taylor-Findlay C. Thrombocytopenia and vitreous hemorrhage complicating ganciclovir treatment. *Am J Ophthalmol* 1989;107:560-1.
- [654] Studies of Ocular Complications of AIDS Research Group in Collaboration with the AIDS Clinical Trials Group: Foscarnet-Ganciclovir Cytomegalovirus Trial. 4. Visual outcomes. *Ophthalmology* 1994;101:1250-61.
- [655] Orellana J, Teich SA, Lieberman RM, et al. Treatment of retinal detachments in patients with the acquired immune deficiency syndrome. *Ophthalmology* 1991;98:939-43.
- [656] Christensen L, Beeman HW, Allen A. Cytomegalic inclusion disease. *Arch Ophthalmol* 1957;57:90-9.
- [657] Stevens Jr G, Palestine AG, Rodriguez MM, et al. Failure of argon laser to halt cytomegalovirus retinitis. *Retina* 1986;6:119-22.
- [658] Nishi M, Hanashiro R, Mori S, et al. Polymerase chain reaction for the detection of the varicella-zoster genome in ocular samples from patients with acute retinal necrosis. *Am J Ophthalmol* 1992;114:603-9.
- [659] Huang J-S, Russack V, Flores-Aguilar M, et al. Evaluation of cytologic specimens obtained during experimental vitreous biopsy. *Retina* 1993;13:160-5.
- [660] Martin DF, Chan C-C, deSmet MD, et al. The role of chorioretinal biopsy in the management of posterior uveitis. *Ophthalmology* 1993;100:705-14.
- [661] Norris AM, Gentry M, Peehl DM, et al. The elevated expression of a mismatch repair protein is a predictor for biochemical recurrence after radical prostatectomy. *Cancer Epidemiol Biomarkers Prev* 2009;18:57-64.
- [662] Cibis GW, Flynn JT, Davis EB. Herpes simplex retinitis. *Arch Ophthalmol* 1978;96:299-302.
- [663] Cogan DG, Kuwabara T, Young GF, et al. Herpes simplex retinopathy in an infant. *Arch Ophthalmol* 1964;72:641-5.
- [664] Reynolds JD, Griebel M, Mallory S, et al. Congenital herpes simplex retinitis. *Am J Ophthalmol* 1986;102:33-6.
- [665] Nahmias AJ, Hagler WS. Ocular manifestations of herpes simplex in the newborn (neonatal ocular herpes). *Int Ophthalmol Clin* 1972;12:191-213.
- [666] el Azazi M, Malm G, Forsgren M. Late ophthalmologic manifestations of neonatal herpes simplex virus infection. *Am J Ophthalmol* 1990;109:1-7.
- [667] Chu SY, Callaghan WM, Bish CL, et al. Gestational weight gain by body mass index among US women delivering live births, 2004-2005: fueling future obesity. *Am J Obstet Gynecol* 2009;200:271. [e1-7.]
- [668] Bloom JN, Katz JI, Kaufman HE. Herpes simplex retinitis and encephalitis in an adult. *Arch Ophthalmol* 1977;95:1798-9.
- [669] Grutzmacher RD, Henderson D, McDonald PJ, et al. Herpes simplex chorioretinitis in a healthy adult. *Am J Ophthalmol* 1983;96:788-96.
- [670] Partamian LG, Morse PH, Klein HZ. Herpes simplex type 1 retinitis in an adult with systemic herpes zoster. *Am J Ophthalmol* 1981;92:215-20.
- [671] Centers for Disease Control B-virus infection in humans: Pensacola, Florida. *MMWR Morb Mortal Wkly Rep* 1987;36:289-90. [95-96.]
- [672] Kelly SP, Rosenthal AR, Nicholson KG, et al. Retinochoroiditis in acute Epstein-Barr virus infection. *Br J Ophthalmol* 1989;73:1002-3.
- [673] Bartlett RE, Mumma CS, Irvine AR. Herpes zoster ophthalmicus with bilateral hemorrhagic retinopathy. *Am J Ophthalmol* 1951;34:45-8.
- [674] Culbertson WW, Blumenkranz MS. The acute retinal necrosis syndrome. In: Blodi FC, editor. *Herpes simplex infections of the eye*. New York: Churchill Livingstone; 1984. p. 77-89.
- [675] Edgerton AE. Herpes zoster ophthalmicus: report of cases and review of literature. *Arch Ophthalmol* 1945;34:114-53.
- [676] Hesse RJ. Herpes zoster ophthalmicus associated with delayed retinal thrombophlebitis. *Am J Ophthalmol* 1977;84:329-31.
- [677] Jensen J. A case of herpes zoster ophthalmicus complicated with neuroretinitis. *Acta Ophthalmol* 1948;26:551-5.
- [678] Naumann G, Gass JDM, Font RL. Histopathology of herpes zoster ophthalmicus. *Am J Ophthalmol* 1968;65:533-41.
- [679] Schwartz JN, Cashwell F, Hawkins HK, et al. Necrotizing retinopathy with herpes zoster ophthalmicus: a light and electron microscopical study. *Arch Pathol Lab Med* 1976;100:386-91.
- [680] Bloom SM, Snady-McCoy L. Multifocal choroiditis uveitis occurring after herpes zoster ophthalmicus. *Am J Ophthalmol* 1989;108:733-5.
- [681] Lambert SR, Taylor D, Kriss A, et al. Ocular manifestations of the congenital varicella syndrome. *Arch Ophthalmol* 1989;107:52-6.
- [682] Capone Jr A, Meredith TA. Central visual loss caused by chicken pox retinitis in a 2-year-old child. *Am J Ophthalmol* 1992;113:592-3.

- [683] Cho N, Han H. Central retinal artery occlusion after varicella. *Am J Ophthalmol* 1992;113:591-2.
- [684] Copenhaver RM. Chickenpox with retinopathy. *Arch Ophthalmol* 1966;75:199-200.
- [685] Friedberg MA, Micale AJ. Monocular blindness from central retinal artery occlusion associated with chicken pox. *Am J Ophthalmol* 1994;117:117-8.
- [686] Hugkulstone CE, Watt LL. Branch retinal arteriolar occlusion with chicken-pox. *Br J Ophthalmol* 1988;72:78-80.
- [687] Amanat LA, Cant JS, Green FD. Acute phthisis bulbi and external ophthalmoplegia in herpes zoster ophthalmicus. *Ann Ophthalmol* 1985;17:46-51.
- [688] Gilbert GJ. Herpes zoster ophthalmicus and delayed contralateral hemiparesis: relationship of the syndrome to central nervous system granulomatous angiitis. *JAMA* 1974;229:302-4.
- [689] Womack LW, Liesegang TJ. Complications of herpes zoster ophthalmicus. *Arch Ophthalmol* 1983;101:42-5.
- [690] Mora P, Guex-Crosier Y, Kamberi E, et al. Acute retinal necrosis in primary herpes simplex virus type 1 infection. *Pediatr Infect Dis J* 2009;28:163-4.
- [691] Cottet L, Kaiser L, Hirsch HH, et al. HSV2 acute retinal necrosis: diagnosis and monitoring with quantitative polymerase chain reaction. *Int Ophthalmol* 2009;29:199-201.
- [692] Vandercam T, Hintzen RQ, de Boer JH, et al. Herpetic encephalitis is a risk factor for acute retinal necrosis. *Neurology* 2008;71:1268-74.
- [693] Moesen I, Khemka S, Ayliffe W. Acute retinal necrosis secondary to herpes simplex virus type 2 with preexisting chorioretinal scarring. *J Pediatr Ophthalmol Strabismus* 2008;45:59-61.
- [694] King J, Chung M, DiLoreto Jr DA. A 9-year-old girl with herpes simplex virus type 2 acute retinal necrosis treated with intravitreal foscarnet. *Ocul Immunol Inflamm* 2007;15:395-8.
- [695] Chang S, Young LH. Acute retinal necrosis: an overview. *Int Ophthalmol Clin* 2007;47:145-54.
- [696] Van Gelder RN, Willig JL, Holland GN, et al. Herpes simplex virus type 2 as a cause of acute retinal necrosis syndrome in young patients. *Ophthalmology* 2001;108:869-76.
- [697] Yamamoto S, Nakao T, Kajiyama K. Acute retinal necrosis following herpes simplex encephalitis. *Arch Neurol* 2007;64:283.
- [698] Usui Y, Goto H. Overview and diagnosis of acute retinal necrosis syndrome. *Semin Ophthalmol* 2008;23:275-83.
- [699] Bando K, Kinoshita A, Mimura Y. Six cases of so called 'Kirisawa type' uveitis. *Jpn J Clin Ophthalmol* 1979;33:1515-21.
- [700] Blumenkranz MS, Culbertson WW, Clarkson JG, et al. Treatment of the acute retinal necrosis syndrome with intravenous acyclovir. *Ophthalmology* 1986;93:296-300.
- [701] Brown RM, Mendis U. Retinal arteritis complicating herpes zoster ophthalmicus. *Br J Ophthalmol* 1973;57:344-6.
- [702] Fisher JP, Lewis ML, Blumenkranz M, et al. The acute retinal necrosis syndrome. Part I: Clinical manifestations. *Ophthalmology* 1982;89:1309-16.
- [703] Friberg TR, Jost BF. Acute retinal necrosis in an immunosuppressed patient. *Am J Ophthalmol* 1984;98:515-7.
- [704] Gartry DS, Spalton DJ, Tilzey A, et al. Acute retinal necrosis syndrome. *Br J Ophthalmol* 1991;75:292-7.
- [705] Gass JDM. Acute herpetic thrombotic retinal angiitis and necrotizing neuroretinitis ('acute retinal necrosis syndrome'). Symposium on Medical and Surgical Diseases of the Retina and Vitreous: Transactions of the New Orleans Academy of Ophthalmology. St Louis: CV Mosby; 1983. p. 97-107.
- [706] Gorman BD, Nadel AJ, Coles RS. Acute retinal necrosis. *Ophthalmology* 1982;89:809-14.
- [707] Hayreh MMS, Kreiger AE, Straatsma BR, et al. Acute retinal necrosis. *ARVO Abstracts. Invest Ophthalmol Vis Sci* 1980;19(Suppl.):48.
- [708] Hayreh SS. Acute retinal necrosis. *Am J Ophthalmol* 1984;97:661-2.
- [709] Holland GN. Executive Committee of the American Uveitis Society: Standard diagnostic criteria for the acute retinal necrosis syndrome. *Am J Ophthalmol* 1994;117:663-6.
- [710] Jampol LM. Acute retinal necrosis. *Am J Ophthalmol* 1982;93:254-5.
- [711] Kometani J, Asayama T. A case of specific uveitis occurring acutely in the right eye. *Folia Ophthalmol Jpn* 1978;29:1397-401.
- [712] Lightman S. Acute retinal necrosis [editorial]. *Br J Ophthalmol* 1991;75:449.
- [713] Martenet A-C. Fréquence et aspects cliniques des complications rétinienues de l'uvéite intermédiaire. *Bull Mem Soc Fr Ophtalmol* 1980;92:40-2.
- [714] Okinami S, Tsukahara I. Acute severe uveitis with retinal vasculitis and retinal detachment. *Ophthalmologica* 1979;179:276-85.
- [715] Price Jr FW, Schlaegel Jr TF. Bilateral acute retinal necrosis. *Am J Ophthalmol* 1980;89:419-24.
- [716] Rummelt V, Wenkel H, Rummelt C, et al. Detection of varicella zoster virus DNA and viral antigen in the late stage of bilateral acute retinal necrosis syndrome. *Arch Ophthalmol* 1992;110:1132-6.
- [717] Saari KM, Böke W, Manthey KF, et al. Bilateral acute retinal necrosis. *Am J Ophthalmol* 1982;93:403-11.
- [718] Sternberg Jr P, Knox DL, Finkelstein D, et al. Acute retinal necrosis syndrome. *Retina* 1982;2:145-51.
- [719] Topilow HW, Nussbaum JJ, Freeman HM, et al. Bilateral acute retinal necrosis: clinical and ultrastructural study. *Arch Ophthalmol* 1982;100:1901-8.
- [720] Urayama A, Yamada N, Sasaki T, et al. Unilateral acute uveitis with retinal periarthritis and detachment. *Jpn J Clin Ophthalmol* 1971;25:607-19.
- [721] Willerson Jr D, Aaberg TM, Reeser FH. Necrotizing vaso-occlusive retinitis. *Am J Ophthalmol* 1977;84:209-19.
- [722] Young NJA, Bird AC. Bilateral acute retinal necrosis. *Br J Ophthalmol* 1978;62:581-90.
- [723] Culbertson WW, Blumenkranz MS, Haines H, et al. The acute retinal necrosis syndrome. Part 2: Histopathology and etiology. *Ophthalmology* 1982;89:1317-25.
- [724] Margolis T, Irvine AR, Hoyt WF, et al. Acute retinal necrosis syndrome presenting with papillitis and arcuate neuroretinitis. *Ophthalmology* 1988;95:937-40.
- [725] Regillo CD, Sergott RC, Ho AC, et al. Hemodynamic alterations in the acute retinal necrosis syndrome. *Ophthalmology* 1993;100:1171-6.
- [726] Amano Y, Ohashi Y, Haruta Y, et al. A new fundus finding in patients with zoster ophthalmicus. *Am J Ophthalmol* 1986;102:532-3.
- [727] Matsuo T, Nakayama T, Koyama T, et al. A proposed mild type of acute retinal necrosis syndrome. *Am J Ophthalmol* 1988;105:579-83.
- [728] Matsuo T, Morimoto K, Matsuo N. Factors associated with poor visual outcome in acute retinal necrosis. *Br J Ophthalmol* 1991;75:450-4.
- [729] Rabinovitch T, Nozik RA, Varenhorst MP. Bilateral acute retinal necrosis syndrome. *Am J Ophthalmol* 1989;108:735-6.
- [730] Palay DA, Sternberg Jr P, Davis J, et al. Decrease in the risk of bilateral acute retinal necrosis by acyclovir therapy. *Am J Ophthalmol* 1991;112:250-5.
- [731] Culbertson WW, Blumenkranz MS, Pepose JS, et al. Varicella zoster virus is a cause of the acute retinal necrosis syndrome. *Ophthalmology* 1986;93:559-69.



- [732] Culbertson WW, Brod RD, Flynn Jr HW, et al. Chickenpox-associated acute retinal necrosis syndrome. *Ophthalmology* 1991;98:1641-5.
- [733] Jabs DA, Schachat AP, Liss R, et al. Presumed varicella zoster retinitis in immunocompromised patients. *Retina* 1987;7:9-13.
- [734] Kelly SP, Rosenthal AR. Chickenpox chorioretinitis. *Br J Ophthalmol* 1990;74:698-9.
- [735] Matsuo T, Koyama M, Matsuo N. Acute retinal necrosis as a novel complication of chicken pox in adults. *Br J Ophthalmol* 1990;74:443-4.
- [736] Yeo JH, Pepose JS, Stewart JA, et al. Acute retinal necrosis syndrome following herpes zoster dermatitis. *Ophthalmology* 1986;93:1418-22.
- [737] el Azaza M, Samuelsson A, Linde A, et al. Intrathecal antibody production against viruses of the herpesvirus family in acute retinal necrosis syndrome. *Am J Ophthalmol* 1991;112:76-82.
- [738] Matsuo T, Date S, Tsuji T, et al. Immune complex containing herpesvirus antigen in a patient with acute retinal necrosis. *Am J Ophthalmol* 1986;101:368-71.
- [739] Pepose JS, Flowers B, Stewart JA, et al. Herpesvirus antibody levels in the etiologic diagnosis of the acute retinal necrosis syndrome. *Am J Ophthalmol* 1992;113:248-56.
- [740] Soushi S, Ozawa H, Matsubashi M, et al. Demonstration of varicella-zoster virus antigens in the vitreous aspirates of patients with acute retinal necrosis syndrome. *Ophthalmology* 1988;95:1394-8.
- [741] Linnemann Jr CC, Alvira MM. Pathogenesis of varicella-zoster angiitis in the CNS. *Arch Neurol* 1980;37:239-40.
- [742] Gass JDM. Giant cell reaction surrounding Bruch's membrane and internal limiting membrane. *East Ophthalmic Pathol Soc Meet* 1991.
- [743] Green WR, Zimmerman LE. Granulomatous reaction to Descemet's membrane. *Am J Ophthalmol* 1967;64:555-8.
- [744] Hedges III TR, Albert DM. The progression of the ocular abnormalities of herpes zoster: histopathologic observations of nine cases. *Ophthalmology* 1982;89:165-77.
- [745] Reese LT, Shafer DM, Zweifel P. Acute acquired toxoplasmosis. *Ann Ophthalmol* 1981;13:467-70.
- [746] Freeman WR, Thomas EL, Rao NA, et al. Demonstration of herpes group virus in acute retinal necrosis syndrome. *Am J Ophthalmol* 1986;102:701-9.
- [747] Freeman WR, Wiley CA, Gross JG, et al. Endoretinal biopsy in immunosuppressed and healthy patients with retinitis: indications, utility, and techniques. *Ophthalmology* 1989;96:1559-65.
- [748] Taylor D, Day S, Tiedemann K, et al. Chorioretinal biopsy in a patient with leukaemia. *Br J Ophthalmol* 1981;65:489-93.
- [749] Holland GN, Cornell PJ, Park MS, et al. An association between acute retinal necrosis syndrome and HLA-DQw7 and phenotype Bw62,DR4. *Am J Ophthalmol* 1989;108:370-4.
- [750] Grossniklaus HE, Aaberg TM, Purnell EW, et al. Retinal necrosis in X-linked lymphoproliferative disease. *Ophthalmology* 1994;101:705-9.
- [751] Blumenkranz MS, Kaplan HJ, Clarkson JG, et al. Acute multifocal hemorrhagic retinal vasculitis. *Ophthalmology* 1988;95:1663-72.
- [752] Balansard B, Bodaghi B, Cassoux N, et al. Necrotizing retinopathies simulating acute retinal necrosis syndrome. *Br J Ophthalmol* 2005;89:96-101.
- [753] Diddie KR, Schanzlin DJ, Mausolf FA, et al. Necrotizing retinitis caused by opportunistic virus infection in a patient with Hodgkin's disease. *Am J Ophthalmol* 1979;88:668-73.
- [754] Knox DL, King Jr J. Retinal arteritis, iridocyclitis, and giardiasis. *Ophthalmology* 1982;89:1303-8.
- [755] Peyman GA, Goldberg MF, Uninsky E, et al. Vitrectomy and intravitreal antiviral drug therapy in acute retinal necrosis syndrome; report of two cases. *Arch Ophthalmol* 1984;102:1618-21.
- [756] Kawaguchi T, Spencer DB, Mochizuki M. Therapy for acute retinal necrosis. *Semin Ophthalmol* 2008;23:285-90.
- [757] Huynh TH, Johnson MW, Comer GM, et al. Vitreous penetration of orally administered valacyclovir. *Am J Ophthalmol* 2008;145:682-6.
- [758] Lau CH, Missotten T, Salzmann J, et al. Acute retinal necrosis features, management, and outcomes. *Ophthalmology* 2007;114:756-62.
- [759] Garner HR, Latkany P. Oral drugs for viral retinitis. *Ophthalmology* 2007;114:2367. [author reply 2367-8.]
- [760] Han DP, Lewis H, Williams GA, et al. Laser photocoagulation in the acute retinal necrosis syndrome. *Arch Ophthalmol* 1987;105:1051-4.
- [761] Sternberg Jr P, Han DP, Yeo JH, et al. Photocoagulation to prevent retinal detachment in acute retinal necrosis. *Ophthalmology* 1988;95:1389-93.
- [762] Blumenkranz M, Clarkson J, Culbertson WW, et al. Visual results and complications after retinal reattachment in the acute retinal necrosis syndrome. The influence of operative technique. *Retina* 1989;9:170-4.
- [763] Blumenkranz M, Clarkson J, Culbertson WW, et al. Vitrectomy for retinal detachment associated with acute retinal necrosis. *Am J Ophthalmol* 1988;106:426-9.
- [764] Carney MD, Peyman GA, Goldberg MF, et al. Acute retinal necrosis. *Retina* 1986;6:85-94.
- [765] Clarkson JG, Blumenkranz MS, Culbertson WW, et al. Retinal detachment following the acute retinal necrosis syndrome. *Ophthalmology* 1984;91:1665-8.
- [766] McDonald HR, Lewis H, Kreiger AE, et al. Surgical management of retinal detachment associated with acute retinal necrosis syndrome. *Br J Ophthalmol* 1991;75:455-8.
- [767] Han DP, Abrams GW, Williams GA. Regression of disc neovascularization by photocoagulation in the acute retinal necrosis syndrome. *Retina* 1988;8:244-6.
- [768] Sergott RC, Anand R, Belmont JB, et al. Acute retinal necrosis neuropathy: clinical profile and surgical therapy. *Arch Ophthalmol* 1989;107:692-6.
- [769] Duker JS, Shakin EP. Rapidly progressive outer retinal necrosis in the acquired immunodeficiency syndrome. *Am J Ophthalmol* 1991;111:255-6.
- [770] Engstrom Jr RE, Holland GN, Margolis TP, et al. The progressive outer retinal necrosis syndrome: a variant of necrotizing herpetic retinopathy in patients with AIDS. *Ophthalmology* 1994;101:1488-502.
- [771] Forster DJ, Dugel PU, Frangieh GT, et al. Rapidly progressive outer retinal necrosis in the acquired immunodeficiency syndrome. *Am J Ophthalmol* 1990;110:341-8.
- [772] Johnston WH, Holland GN, Engstrom Jr RE, et al. Recurrence of presumed varicella-zoster virus retinopathy in patients with acquired immunodeficiency syndrome. *Am J Ophthalmol* 1993;116:42-50.
- [773] Margo CE. (PORN) Progressive outer retinal necrosis syndrome. Presented at the Verhoeff Society Meeting, 1994.
- [774] Shinoda K, Inoue M, Ishida S, et al. Progressive outer retinal necrosis in a patient with nephrotic syndrome. *Ophthalmic Surg Lasers* 2001;32:67-72.
- [775] Foster RE, Petersen MR, Neuss MN, et al. Progressive outer retinal necrosis syndrome in a lymphoma patient with good visual outcome. *Am J Ophthalmol* 2001;132:117-20.
- [776] Kashiwase M, Sata T, Yamauchi Y, et al. Progressive outer retinal necrosis caused by herpes simplex virus type 1 in a patient

- with acquired immunodeficiency syndrome. *Ophthalmology* 2000;107:790-4.
- [777] Yang CM, Wang WW, Lin CP. Progressive outer retinal necrosis syndrome as an early manifestation of human immunodeficiency virus infection. *J Formos Med Assoc* 1999;98:141-4.
- [778] Laby DM, Nasrallah FP, Butrus SI, et al. Treatment of outer retinal necrosis in AIDS patients. *Graefes Arch Clin Exp Ophthalmol* 1993;231:271-3.
- [779] Vrabec TR. Posterior segment manifestations of HIV/AIDS. *Surv Ophthalmol* 2004;49:131-57.
- [780] Holland GN. AIDS and ophthalmology: the first quarter century. *Am J Ophthalmol* 2008;145:397-408.
- [781] Welch K, Finkbeiner W, Alpers CE, et al. Autopsy findings in the acquired immune deficiency syndrome. *JAMA* 1984;252:1152-9.
- [782] Schuman JS, Friedman AH. Retinal manifestations of the acquired immune deficiency syndrome (AIDS): Cytomegalovirus, *Candida albicans*, *Cryptococcus*, toxoplasmosis, and *Pneumocystis carinii*. *Trans Ophthalmol Soc UK* 1983;103:177-90.
- [783] Rosenberg PR, Uliss AE, Friedland GH, et al. Acquired immunodeficiency syndrome: ophthalmic manifestations in ambulatory patients. *Ophthalmology* 1983;90:874-8.
- [784] Rodrigues MM, Palestine A, Nussenblatt R, et al. Unilateral cytomegalovirus retinochoroiditis and bilateral cytooid bodies in a bisexual man with the acquired immunodeficiency syndrome. *Ophthalmology* 1983;90:1577-82.
- [785] Qavi HB, Green MT, SeGall GK, et al. Demonstration of HIV-1 and HHV-6 in AIDS-associated retinitis. *Curr Eye Res* 1989;8:379-87.
- [786] Pepose JS, Holland GN, Nestor MS, et al. Acquired immune deficiency syndrome: pathogenic mechanisms of ocular disease. *Ophthalmology* 1985;92:472-84.
- [787] Palestine AG, Rodrigues MM, Macher AM, et al. Ophthalmic involvement in acquired immunodeficiency syndrome. *Ophthalmology* 1984;91:1092-9.
- [788] Newsome DA, Green WR, Miller ED, et al. Microvascular aspects of acquired immune deficiency syndrome retinopathy. *Am J Ophthalmol* 1984;98:590-601.
- [789] Mansour AM, Jampol LM, Logani S, et al. Cotton-wool spots in acquired immunodeficiency syndrome compared with diabetes mellitus, systemic hypertension, and central retinal vein occlusion. *Arch Ophthalmol* 1988;106:1074-7.
- [790] Lifson AR, Rutherford GW, Jaffe HW. The natural history of human immunodeficiency virus infection. *J Infect Dis* 1988;158:1360-7.
- [791] Kwok S, O'Donnell JJ, Wood IS. Retinal cotton-wool spots in a patient with *Pneumocystis carinii* infection. *N Engl J Med* 1982;307:184-5.
- [792] Khadem M, Kalish SB, Goldsmith J, et al. Ophthalmologic findings in acquired immune deficiency syndrome (AIDS). *Arch Ophthalmol* 1984;102:201-6.
- [793] Kestelyn P, Van de Perre P, Rouvroy D, et al. A prospective study of the ophthalmologic findings in the acquired immune deficiency syndrome in Africa. *Am J Ophthalmol* 1985;100:230-8.
- [794] Jensen OA, Gerstoft J, Thomsen HK, et al. Cytomegalovirus retinitis in the acquired immunodeficiency syndrome (AIDS); light-microscopical, ultrastructural and immunohistochemical examination of a case. *Acta Ophthalmol* 1984;62:1-9.
- [795] Jabs DA, Green WR, Fox R, et al. Ocular manifestations of acquired immune deficiency syndrome. *Ophthalmology* 1989;96:1092-9.
- [796] Hummer J, Gass JDM, Huang AJW. Conjunctival Kaposi's sarcoma treated with interferon alpha-2a. *Am J Ophthalmol* 1993;116:502-3.
- [797] Holland GN, Pepose JS, Pettit TH, et al. Acquired immune deficiency syndrome; ocular manifestations. *Ophthalmology* 1983;90:859-72.
- [798] Holland GN, Gottlieb MS, Foos RY. Retinal cotton-wool patches in acquired immunodeficiency syndrome. *N Engl J Med* 1982;307:1704.
- [799] Gal A, Pollack A, Oliver M. Ocular findings in the acquired immunodeficiency syndrome. *Br J Ophthalmol* 1984;68:238-41.
- [800] Fujikawa LS, Salahuddin SZ, Ablashi D, et al. Human T-cell leukemia/lymphotropic virus type III in the conjunctival epithelium of a patient with AIDS. *Am J Ophthalmol* 1985;100:507-9.
- [801] Freeman WR, Lerner CW, Mines JA, et al. A prospective study of the ophthalmologic findings in the acquired immune deficiency syndrome. *Am J Ophthalmol* 1984;97:133-42.
- [802] Drew WL, Buhles W, Erlich KS. Herpesvirus infections (cytomegalovirus, herpes simplex virus, varicella-zoster virus): how to use ganciclovir (DHPG) and acyclovir. *Infect Dis Clin North Am* 1988;2:495-509.
- [803] Dennehy PJ, Warman R, Flynn JT, et al. Ocular manifestations in pediatric patients with acquired immunodeficiency syndrome. *Arch Ophthalmol* 1989;107:978-82.
- [804] Boyer DS. Discussion of paper by Holland GN, Pepose JS, Pettit TH, et al. Acquired immune deficiency syndrome: ocular manifestations. *Ophthalmology* 1983;90:872-73.
- [805] Broder S, Gallo RC. A pathogenic retrovirus (HTLV-III) linked to AIDS. *N Engl J Med* 1984;311:1292-7.
- [806] Brodie SE, Friedman AH. Retinal dysfunction as an initial ophthalmic sign in AIDS. *Br J Ophthalmol* 1990;74:49-51.
- [807] Brooks Jr HL, Downing J, McClure JA, et al. Orbital Burkitt's lymphoma in a homosexual man with acquired immune deficiency. *Arch Ophthalmol* 1984;102:1533-7.
- [808] Cantrill HL, Henry K, Jackson B, et al. Recovery of human immunodeficiency virus from ocular tissues in patients with acquired immune deficiency syndrome. *Ophthalmology* 1988;95:1458-62.
- [809] Centers for Disease Control. Kaposi's sarcoma and *Pneumocystis pneumonia* among homosexual men - New York City and California. *MMWR Morb Mortal Wkly Rep* 1981;30:305-8.
- [810] Centers for Disease Control. Guidelines for prophylaxis against *Pneumocystis carinii pneumonia* for adults and children infected with human immunodeficiency virus. *MMWR Morb Mortal Wkly Rep* 1992;41(RR-4):1-11.
- [811] Centers for Disease Control. *Pneumocystis pneumonia* - Los Angeles. *MMWR Morb Mortal Wkly Rep* 1981;30:250-2.
- [812] Centers for Disease Control. Provisional Public Health Service inter-agency recommendations for screening donated blood and plasma for antibody to the virus causing acquired immunodeficiency syndrome. *MMWR Morb Mortal Wkly Rep* 1985;34:1-5.
- [813] Cole EL, Meisler DM, Calabrese LH, et al. Herpes zoster ophthalmicus and acquired immune deficiency syndrome. *Arch Ophthalmol* 1984;102:1027-9.
- [814] Tanenbaum M, Russell S, Richmond P, et al. Calcified cytooid bodies in acquired immunodeficiency syndrome. *Retina* 1987;7:84-8.
- [815] Engstrom Jr RE, Holland GN, Hardy WD, et al. Hemorheologic abnormalities in patients with human immunodeficiency virus infection and ophthalmic microvasculopathy. *Am J Ophthalmol* 1990;109:153-61.
- [816] Freeman WR, Chen A, Henderly DE, et al. Prevalence and significance of acquired immunodeficiency syndrome-related retinal microvasculopathy. *Am J Ophthalmol* 1989;107:229-35.
- [817] Nussenblatt RB, Palestine AG. Human immunodeficiency

- virus, herpes zoster, and the retina [editorial]. *Am J Ophthalmol* 1991;112:206–7.
- [818] Palestine AG, Frishberg B. Macular edema in acquired immunodeficiency syndrome-related microvasculopathy. *Am J Ophthalmol* 1991;111:770–1.
- [819] Tenhula WN, Xu S, Madigan MC, et al. Morphometric comparisons of optic nerve axon loss in acquired immunodeficiency syndrome. *Am J Ophthalmol* 1992;113:14–20.
- [820] Glasgow BJ, Weisberger AK. A quantitative and cartographic study of retinal microvasculopathy in acquired immunodeficiency syndrome. *Am J Ophthalmol* 1994;118:46–56.
- [821] Quiceno JI, Capparelli E, Sadun AA, et al. Visual dysfunction without retinitis in patients with acquired immunodeficiency syndrome. *Am J Ophthalmol* 1992;113:8–13.
- [822] Winward KE, Hamed LM, Glaser JS. The spectrum of optic nerve disease in human immunodeficiency virus infection. *Am J Ophthalmol* 1989;107:373–80.
- [823] Croxatto JO, Mestre C, Puente S, et al. Nonreactive tuberculosis in a patient with acquired immune deficiency syndrome. *Am J Ophthalmol* 1986;102:659–60.
- [824] Pepose JS, Hilborne LH, Cancilla PA, et al. Concurrent herpes simplex and cytomegalovirus retinitis and encephalitis in the acquired immune deficiency syndrome (AIDS). *Ophthalmology* 1984;91:1669–77.
- [825] Raymond LA, Wilson CA, Linnemann Jr CC, et al. Punctate outer retinitis in acute Epstein–Barr virus infection. *Am J Ophthalmol* 1987;104:424–6.
- [826] Purtilo DT. Epstein–Barr virus: The spectrum of its manifestations in human beings. *South Med J* 1987;80:943–7.
- [827] Tiedeman JS. Epstein–Barr viral antibodies in multifocal choroiditis and panuveitis. *Am J Ophthalmol* 1987;103:659–63.
- [828] Wong KW, D’Amico DJ, Hedges III TR, et al. Ocular involvement associated with chronic Epstein–Barr virus disease. *Arch Ophthalmol* 1987;105:788–92.
- [829] Nakao K, Ohba N. Human T-cell lymphotropic virus type 1-associated retinal vasculitis in children. *Retina* 2003;23:197–201.
- [830] Levy-Clarke GA, Buggage RR, Shen D, et al. Human T-cell lymphotropic virus type-1 associated T-cell leukemia/lymphoma masquerading as necrotizing retinal vasculitis. *Ophthalmology* 2002;109:1717–22.
- [831] Nakao K, Ohba N, Uemura A, et al. Gray-white, spherical deposition on retinal vessel associated with acute retinal necrosis and diabetic retinopathy in HTLV-I carriers. *Jpn J Ophthalmol* 1998;42:490–4.
- [832] Mochizuki M, Tajima K, Watanabe T, et al. Human T lymphotropic virus type I uveitis. *Br J Ophthalmol* 1994;78:149–54.
- [833] Nakao K, Ohba N. Clinical features of HTLV-I associated uveitis. *Br J Ophthalmol* 1993;77:274–9.
- [834] Mochizuki M, Watanabe T, Yamaguchi K, et al. Uveitis associated with human T-cell lymphotropic virus type I. *Am J Ophthalmol* 1992;114:123–9.
- [835] Ohba N, Matsumoto M, Sameshima M, et al. Ocular manifestations in patients infected with human T-lymphotropic virus type I. *Jpn J Ophthalmol* 1989;33:1–12.
- [836] Sasaki K, Morooka I, Inomata H, et al. Retinal vasculitis in human T-lymphotropic virus type I associated myelopathy. *Br J Ophthalmol* 1989;73:812–5.
- [837] Spalton DJ, Nicholson F. Mini review: HTLV-I infection in human disease. *Br J Ophthalmol* 1991;75:174–5.
- [838] Goto K, Sato K, Kurita M, et al. The seroprevalence of HTLV-I in patients with ocular diseases, pregnant women and healthy volunteers in the Kanto district, central Japan. *Scand J Infect Dis* 1997;29:219–21.
- [839] Ohba N, Nakao K, Isashiki Y. HTLV-I associated retinohoroidal degeneration. *Jpn J Ophthalmol* 1996;40:71–8.
- [840] Sasaki K, Morooka I, Inomata H, et al. Retinal vasculitis in human T-lymphotropic virus type I associated myelopathy. *Br J Ophthalmol* 1989;73:812–5.
- [841] Ohba N, Matsumoto M, Sameshima M, et al. Ocular manifestations in patients infected with human T-lymphotropic virus type I. *Jpn J Ophthalmol* 1989;33:1–12.
- [842] Merle H, Donnio A, Gonin C, et al. Retinal vasculitis caused by adult T-cell leukemia/lymphoma. *Jpn J Ophthalmol* 2005;49:41–5.
- [843] Shibata K, Shimamoto Y, Nishimura T, et al. Ocular manifestations in adult T-cell leukemia/lymphoma. *Ann Hematol* 1997;74:163–8.
- [844] Matsumura N, Sawa M, Ohguro N, et al. Chorioretinitis with late pigmentary changes in a carrier of human T-lymphotropic virus 1. *Arch Ophthalmol* 2007;125:1436.
- [845] Kumar SR, Gill PS, Wagner DG, et al. Human T-cell lymphotropic virus type I-associated retinal lymphoma. A clinicopathologic report. *Arch Ophthalmol* 1994;112:954–9.
- [846] Alfano JE. Ocular aspects of the maternal rubella syndrome. *Trans Am Acad Ophthalmol Otolaryngol* 1966;70:235–66.
- [847] Boniuk M, Zimmerman LE. Ocular pathology in the rubella syndrome. *Arch Ophthalmol* 1967;77:455–72.
- [848] Collis WJ, Cohen DN. Rubella retinopathy: a progressive disorder. *Arch Ophthalmol* 1970;84:33–5.
- [849] Deutman AF, Grizzard WS. Rubella retinopathy and subretinal neovascularization. *Am J Ophthalmol* 1978;85:82–7.
- [850] Franceschetti A, Dieterle P, Schwarz A. Rétinite pigmentaire à virus: relation entre tableau clinique et électrorétinogramme (ERG). *Ophthalmologica* 1958;135:545–54.
- [851] Frank KE, Purnell EW. Subretinal neovascularization following rubella retinopathy. *Am J Ophthalmol* 1978;86:462–6.
- [852] Gass JDM. Stereoscopic atlas of macular diseases: diagnosis and treatment, 2nd ed. St Louis: CV Mosby; 1977. p. 40, 92, 210.
- [853] Givens KT, Lee DA, Jones T, et al. Congenital rubella syndrome: ophthalmic manifestations and associated systemic disorders. *Br J Ophthalmol* 1993;77:358–63.
- [854] Gregg NM, Discussion of Marks EO. Pigmentary abnormality in children congenitally deaf following maternal German measles. *Trans Ophthalmol Soc Aust* 1946;6:124.
- [855] Hertzberg R. Twenty-five-year follow-up of ocular defects in congenital rubella. *Am J Ophthalmol* 1968;66:269–71.
- [856] Krill AE. The retinal disease of rubella. *Arch Ophthalmol* 1967;77:445–9.
- [857] Krill AE. Retinopathy secondary to rubella. *Int Ophthalmol Clin* 1972;12:89–103.
- [858] Menser MA, Dods L, Harley JD. A twenty-five-year follow-up of congenital rubella. *Lancet* 1967;2:1347–50.
- [859] Slusher MM, Tyler ME. Rubella retinopathy and subretinal neovascularization. *Ann Ophthalmol* 1982;14:292–4.
- [860] Wolff SM. The ocular manifestations of congenital rubella. *Trans Am Ophthalmol Soc* 1972;70:577–614.
- [860a] Hirano K, Tanikawa A, Miyake Y. Neovascular Maculopathy Associated with Rubella Retinopathy. *Jpn J Ophthalmol* 2000;44(6):697.
- [860b] Fortes Filho JB. Spontaneous involution of choroidal neovascularization secondary to rubella retinopathy: reply to Veloso, Costa, Orefice, and Orefice. *Eye (Lond)* 2008;22(7):978.
- [861] Goldberg N, Chou J, Moore A, et al. Autofluorescence imaging in rubella retinopathy. *Ocul Immunol Inflamm* 2009;17:400–2.
- [862] Gagnon A, Bouchard RW. Fulminating adult-onset subacute sclerosing panencephalitis in a 49-year-old man. *Arch Neurol*

- 2003;60:1160-1.
- [863] d'Elia G, Di Giacomo A, D'Alessandro P, et al. Traumatic anterior glenohumeral instability: quantification of glenoid bone loss by spiral CT. *Radiol Med* 2008;113:496-503.
- [864] Cochereau IM, Gaudric A, Reinert P, et al. Altérations du fond d'oeil au cours de la panencéphalite sclérosante subaiguë. *J Fr Ophthalmol* 1992;15:255-61.
- [865] Gravina RF, Nakanishi AS, Faden A. Subacute sclerosing panencephalitis. *Am J Ophthalmol* 1978;86:106-9.
- [866] Green SH, Wirtschafter JD. Ophthalmoscopic findings in subacute sclerosing panencephalitis. *Br J Ophthalmol* 1973;57:780-7.
- [867] Haltia M, Tarkkanen A, Vaheri A, et al. Measles retinopathy during immunosuppression. *Br J Ophthalmol* 1978;62:356-60.
- [868] Schulz E. Ophthalmologische Frühmanifestation einer subakuten sklerosierenden Panencephalitis: diagnostische und mögliche therapeutische Aspekte. *Ophthalmologica* 1980;180:281-7.
- [869] Landers III MB, Klintworth GK. Subacute sclerosing panencephalitis (SSPE): a clinicopathologic study of the retinal lesions. *Arch Ophthalmol* 1971;86:156-63.
- [870] Nelson DA, Weiner A, Yanoff M, et al. Retinal lesions in subacute sclerosing panencephalitis. *Arch Ophthalmol* 1970;84:613-21.
- [871] Nguyen NQ, Lee AG, McClure CD, et al. Subretinal lesions in subacute sclerosing panencephalitis. *J AAPOS* 1999;3:252-4.
- [872] Whitcup SM, Butler KM, Caruso R, et al. Retinal toxicity in human immunodeficiency virus-infected children treated with 29,39-dideoxyinosine. *Am J Ophthalmol* 1992;113:1-7.
- [873] Green HJ, Burnett M, Duhamel TA, et al. Abnormal sarcoplasmic reticulum Ca21-sequestering properties in skeletal muscle in chronic obstructive pulmonary disease. *Am J Physiol Cell Physiol* 2008;295:C350-7.
- [874] Hayasaka S, Takatori Y, Noda S, et al. Retinal vasculitis, in a mother and her son with human T-lymphotropic virus type 1 associated myelopathy. *Br J Ophthalmol* 1991;75:566-7.
- [875] Zako M, Kataoka T, Ohno-Jinno A, et al. Analysis of progressive ophthalmic lesion in a patient with subacute sclerosing panencephalitis. *Eur J Ophthalmol* 2008;18:155-8.
- [876] Font RL, Jenis EH, Tuck KD. Measles maculopathy associated with subacute sclerosing panencephalitis: immunofluorescent and immuno-ultrastructural studies. *Arch Pathol* 1973;96:168-74.
- [877] Bakri SJ, Kaiser PK. Ocular manifestations of West Nile virus. *Curr Opin Ophthalmol* 2004;15:537-40.
- [878] Anninger W, Lubow M. Visual loss with West Nile virus infection: a wider spectrum of a 'new' disease. *Clin Infect Dis* 2004;38:e55-6.
- [879] Bains HS, Jampol LM, Caughron MC, et al. Vitritis and chorioretinitis in a patient with West Nile virus infection. *Arch Ophthalmol* 2003;121:205-7.
- [880] Anninger WV, Lomeo MD, Dingle J, et al. West Nile virus-associated optic neuritis and chorioretinitis. *Am J Ophthalmol* 2003;136:1183-5.
- [881] Adelman RA, Membreno JH, Afshari NA, et al. West Nile virus chorioretinitis. *Retina* 2003;23:100-1.
- [882] Khairallah M, Ben Yahia S, Attia S, et al. Linear pattern of West Nile virus-associated chorioretinitis is related to retinal nerve fibres organization. *Eye* 2007;21:952-5.
- [883] Khairallah M, Ben Yahia S, Attia S, et al. Indocyanine green angiographic features in multifocal chorioretinitis associated with West Nile virus infection. *Retina* 2006;26:358-9.
- [884] Khairallah M, Ben Yahia S, Ladjimi A, et al. Chorioretinal involvement in patients with West Nile virus infection. *Ophthalmology* 2004;111:2065-70.
- [885] Yahia SB, Khairallah M. Ocular manifestations of West Nile virus infection. *Int J Med Sci* 2009;6:114-5.
- [886] Chan CK. Ocular manifestation of West Nile virus: a vanishing disease in North America? *Can J Ophthalmol* 2007;42:195-8.
- [887] Chan CK, Limstrom SA, Tarasewicz DG, et al. Ocular features of West Nile virus infection in North America: a study of 14 eyes. *Ophthalmology* 2006;113:1539-46.
- [888] Garg S, Jampol LM. Systemic and intraocular manifestations of West Nile virus infection. *Surv Ophthalmol* 2005;50:3-13.
- [889] Teitelbaum BA, Newman TL, Tresley DJ. Occlusive retinal vasculitis in a patient with West Nile virus. *Clin Exp Optom* 2007;90:463-7.
- [890] Lim WK, Mathur R, Koh A, et al. Ocular manifestations of dengue fever. *Ophthalmology* 2004;111:2057-64.
- [891] Cruz-Villegas V, Berrocal AM, Davis JL. Bilateral choroidal effusions associated with dengue fever. *Retina* 2003;23:576-8.
- [892] Gupta A, Srinivasan R, Setia S, et al. Uveitis following dengue fever. *Eye* 2009;23:873-6.
- [893] Loh BK, Bacsal K, Chee SP, et al. Foveolitis associated with dengue fever: a case series. *Ophthalmologica* 2008;222:317-20.
- [894] Kanungo S, Shukla D, Kim R. Branch retinal artery occlusion secondary to dengue fever. *Indian J Ophthalmol* 2008;56:73-4.
- [895] Beral L, Merle H, David T. Ocular complications of dengue fever. *Ophthalmology* 2008;115:1100-1.
- [896] Tan SY, Kumar G, Surrin SK, et al. Dengue maculopathy: a case report. *Travel Med Infect Dis* 2007;5:62-3.
- [897] Pek DC, Teoh SC. Ocular manifestations in dengue fever. *Can J Ophthalmol* 2007;42:755. [author reply 755-56]
- [898] Nah G, Tan M, Teoh S, et al. Maculopathy associated with dengue fever in a military pilot. *Aviat Space Environ Med* 2007;78:1064-7.
- [899] Bacsal KE, Chee SP, Cheng CL, et al. Dengue-associated maculopathy. *Arch Ophthalmol* 2007;125:501-10.
- [900] Kapoor HK, Bhai S, John M, et al. Ocular manifestations of dengue fever in an East Indian epidemic. *Can J Ophthalmol* 2006;41:741-6.
- [901] Mehta S. Ocular lesions in severe dengue hemorrhagic fever (DHF). *J Assoc Physicians India* 2005;53:656-7.
- [902] Siqueira RC, Vitral NP, Campos WR, et al. Ocular manifestations in dengue fever. *Ocul Immunol Inflamm* 2004;12:323-7.
- [903] Sanjay S, Wagle AM, Au Eong KG. Optic neuropathy associated with dengue fever. *Eye* 2008;22:722-4.
- [904] Kannan M, Rajendran R, Sunish IP, et al. A study on chikungunya outbreak during 2007 in Kerala, south India. *Indian J Med Res* 2009;129:311-5.
- [905] Mahendradas P, Ranganna SK, Shetty R, et al. Ocular manifestations associated with chikungunya. *Ophthalmology* 2008;115:287-91.
- [906] Murthy KR, Venkataraman N, Satish V, et al. Bilateral retinitis following chikungunya fever. *Indian J Ophthalmol* 2008;56:329-31.
- [907] Mittal A, Mittal S, Bharati MJ, et al. Optic neuritis associated with chikungunya virus infection in South India. *Arch Ophthalmol* 2007;125:1381-6.
- [908] Lalitha P, Rathinam S, Banushree K, et al. Ocular involvement associated with an epidemic outbreak of chikungunya virus infection. *Am J Ophthalmol* 2007;144:552-6.
- [909] Chanana B, Azad RV, Nair S. Bilateral macular choroiditis following Chikungunya virus infection. *Eye (Lond)* 2007;21:1020-1.
- [910] Foster RE, Lowder CY, Meisler DM, et al. Mumps neuroretinitis in an adolescent. *Am J Ophthalmol* 1990;110:91-3.
- [911] Riffenburgh RS. Ocular manifestations of mumps. *Arch Ophthalmol* 1961;66:739-43.
- [912] Al-Hazmi A, Al-Rajhi AA, Abboud EB, et al. Ocular complications of Rift Valley fever outbreak in Saudi Arabia.



- Ophthalmology 2005;112:313–8.
- [913] Cohen C, Luntz MH. Rift-Valley-Fieber und Rickettsianretinitis einschliesslich Fluoresceinangiographie. *Klin Monatsbl Augenheilkd* 1976;169:685–99.
- [914] Deutman AF, Klomp HJ. Rift Valley fever retinitis. *Am J Ophthalmol* 1981;92:38–42.
- [915] Freed I. Rift Valley fever in man complicated by retinal changes and loss of vision. *S Afr Med J* 1951;25:930–2.
- [916] Schrire L. Macular changes in Rift Valley fever. *S Afr Med J* 1951;25:926–30.
- [917] Siam AL, Meegan JM, Gharbawi KF. Rift Valley fever ocular manifestations: observations during the 1977 epidemic in Egypt. *Br J Ophthalmol* 1980;64:366–74.
- [918] Avila MP, Jalkh AE, Feldman E, et al. Manifestations of Whipple's disease in the posterior segment of the eye. *Arch Ophthalmol* 1984;102:384–90.
- [919] Durant WJ, Flood T, Goldberg MF, et al. Vitrectomy and Whipple's disease. *Arch Ophthalmol* 1984;102:848–51.
- [920] Font RL, Rao NA, Issarescu S, et al. Ocular involvement in Whipple's disease: light and electron microscopic observations. *Arch Ophthalmol* 1978;96:1431–6.
- [921] Gärtner J. Whipple's disease of the central nervous system, associated with ophthalmoplegia externa and severe asteroid hyalitis: a clinicopathologic study. *Doc Ophthalmol* 1980;49:155–87.
- [922] Knox DL, Bayless TM, Yardley JH, et al. Whipple's disease presenting with ocular inflammation and minimal intestinal symptoms. *Johns Hopkins Med J* 1968;123:175–82.
- [923] Krücke W, Stochdroph O. Über Veränderungen im Zentralnervensystem bei Whipple'scher Krankheit. *Verh Dtsch Ges Pathol* 1962;46:198–202.
- [924] Leland TM, Chambers JK. Ocular findings in Whipple's disease. *South Med J* 1978;71:335–7.
- [925] Margo CE, Pavan PR, Groden LR. Chronic vitritis with macrophagic inclusions: a sequela of treated endophthalmitis due to a coryneform bacterium. *Ophthalmology* 1988;95:156–61.
- [926] Rickman LS, Freeman WR, Green WR, et al. Brief report: Uveitis caused by *Tropheryma whippelii* (Whipple's bacillus). *N Engl J Med* 1995;332:363–6.
- [927] Selsky EJ, Knox DL, Maumenee AE, et al. Ocular involvement in Whipple's disease. *Retina* 1984;4:103–6.
- [928] Switz DM, Casey TR, Bogaty GV. Whipple's disease and papilledema: an unreported presentation. *Arch Intern Med* 1969;123:74–7.
- [929] Malinowski SM, Pulido JS, Goeken NE, et al. The association of HLA-B8, B51, DR2, and multiple sclerosis in pars planitis. *Ophthalmology* 1993;100:1199–205.
- [930] Maumenee AE. Clinical entities in 'uveitis': an approach to the study of intraocular inflammation. *Am J Ophthalmol* 1970;69:1–27.
- [931] Mieler WF, Will BR, Lewis H, et al. Vitrectomy in the management of peripheral uveitis. *Ophthalmology* 1988;95:859–64.
- [932] Nissenblatt MJ, Masciulli L, Yarian DL, et al. Pars planitis – a demyelinating disease? *Arch Ophthalmol* 1981;99:697.
- [933] Nussenblatt RB, Palestine AG. Cyclosporin (Sandimmun) therapy: experience in the treatment of pars planitis and present therapeutic guidelines. *Dev Ophthalmol* 1992;23:177–84.
- [934] Pederson JE, Kenyon KR, Green WR, et al. Pathology of pars planitis. *Am J Ophthalmol* 1978;86:762–74.
- [935] Porter R. Uveitis in association with multiple sclerosis. *Br J Ophthalmol* 1972;56:478–81.
- [936] Pruett RC, Brockhurst RJ, Letts NF. Fluorescein angiography of peripheral uveitis. *Am J Ophthalmol* 1974;77:448–53.
- [937] Shorb SR, Irvine AR, Kimura SJ, et al. Optic disk neovascularization associated with chronic uveitis. *Am J Ophthalmol* 1976;82:175–8.
- [938] Smith RE, Godfrey WA, Kimura SJ. Chronic cyclitis. I. Course and visual prognosis. *Trans Am Acad Ophthalmol Otolaryngol* 1973;77:OP760–OP768.
- [939] Welch RB, Maumenee AE, Wahlen HE. Peripheral posterior segment inflammation, vitreous opacities, and edema of the posterior pole: pars planitis. *Arch Ophthalmol* 1960;64:540–9.
- [940] Razonable RR, Pulido JS, Deziel PJ, et al. Chorioretinitis and vitritis due to *Tropheryma whippelii* after transplantation: case report and review. *Transpl Infect Dis* 2008;10:413–8.
- [941] Ferrari Mde L, Vilela EG, Faria LC, et al. Whipple's disease. Report of five cases with different clinical features. *Rev Inst Med Trop Sao Paulo* 2001;43:45–50.
- [942] Schaller J, Carlson JA. Erythema nodosum-like lesions in treated Whipple's disease: signs of immune reconstitution inflammatory syndrome. *J Am Acad Dermatol*. 2009;60:277–88.
- [943] Cunha de Souza E, Nakashima Y. Diffuse unilateral subacute neuroretinitis: report of transvitreal surgical removal of a subretinal nematode. *Ophthalmology* 1995;102:1183–6.
- [944] Margolis TP, Lowder CY, Holland GN, et al. Varicella-zoster virus retinitis in patients with the acquired immunodeficiency syndrome. *Am J Ophthalmol* 1991;112:119–31.
- [945] Dublin AB, Philips HE. Computer tomography of disseminated coccidioidomycosis. *Radiology* 1980 May;135(2):361–8.
- [946] Gupta P, Sachdev N, Kaur J, et al. Endogenous mycotic endophthalmitis in an immunocompetent patient. *Int Ophthalmol*. 2009 Aug;29(4):315–8. Epub 2008 Jun 5.

## 第 11 章

- [1] Lim JI, Tessler HH, Goodwin JA. Anterior granulomatous uveitis in patients with multiple sclerosis. *Ophthalmology* 1991;98:142–5.
- [2] Rucker CW. Sheathing of the retinal veins in multiple sclerosis. *JAMA* 1945;127:970–3.
- [3] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 310–11.
- [4] Blumenkranz MS, Kaplan HJ, Clarkson JG, et al. Acute multifocal hemorrhagic retinal vasculitis. *Ophthalmology* 1988;95:1663–72.
- [5] Browning DJ. Mild frosted branch periphlebitis. *Am J Ophthalmol* 1992;114:505–6.
- [6] Ito Y, Nakano M, Kyu N, et al. Frosted-branch angiitis in a child. *Jpn J Clin Ophthalmol* 1976;30:797–803.
- [7] Kleiner RC, Kaplan HJ, Shakin JL, et al. Acute frosted retinal periphlebitis. *Am J Ophthalmol* 1988;106:27–34.
- [8] Sugan SL, Henderly DE, Friedman SM, et al. Unilateral frosted branch angiitis. *Am J Ophthalmol* 1991;111:682–5.
- [9] Vander JF, Masciulli L. Unilateral frosted branch angiitis. *Am J Ophthalmol* 1991;112:477–8.
- [10] Watanabe Y, Takeda N, Adachi-Usami E. A case of frosted branch angiitis. *Br J Ophthalmol* 1987;71:553–8.

- [11] Gass JDM. Fluorescein angiography in endogenous intraocular inflammation. In: Aronson SB, Gamble CN, Goodner EK, editors. Clinical methods in uveitis: the Fourth Sloan Symposium on Uveitis. St. Louis: CV Mosby; 1968. p. 202–29.
- [12] Karel I, Peleska M, Divisová G. Fluorescence angiography in retinal vasculitis in children's uveitis. *Ophthalmologica* 1973;166:251–64.
- [13] Kasp E, Whiston R, Dumonde D, et al. Antibody affinity to retinal S-antigen in patients with retinal vasculitis. *Am J Ophthalmol* 1992;113:697–701.
- [14] Rabon RJ, Louis GJ, Zegarra H, et al. Acute bilateral posterior angiopathy with influenza A viral infection. *Am J Ophthalmol* 1987;103:289–93.
- [15] Kaburaki T, Nakamura M, Nagasawa K, et al. Two cases of frosted branch angiitis with central retinal vein occlusion. *Jpn J Ophthalmol* 2001;45:628–33.
- [16] Seo MS, Woo JM, Jeong SK, et al. Recurrent unilateral frosted branch angiitis. *Jpn J Ophthalmol* 1998;42:56–9.
- [17] Nakai A, Saika S. A case of frosted-branch retinal angiitis in a child. *Ann Ophthalmol* 1992;24:415–7.
- [18] Walker S, Iguchi A, Jones NP. Frosted branch angiitis: a review. *Eye (Lond)* 2004;18:527–33.
- [19] Jackson TE, Pathak S, Doran RM. Behçet disease presenting with frosted branch angiitis. *Ocul Immunol Inflamm* 2011;19:65–6.
- [20] Kono H, Ikewaki J, Kimoto K, et al. Frosted branch angiitis associated with streptococcal infection: optical coherence tomography as a follow-up tool. *Acta Ophthalmol* 2009;87:909–11.
- [21] Hua MT, Blaise P, De Leval L, et al. Frosted branch angiitis with undiagnosed Hodgkin lymphoma. *Eur J Ophthalmol* 2009;19:310–3.
- [22] Chen E, Ho AC, Garg SJ, et al. *Streptococcus mitis* endophthalmitis presenting as frosted branch angiitis after intravitreal pegaptanib sodium injection. *Ophthalmic Surg Lasers Imaging* 2009;40:192–4.
- [23] Reynders S, Dewachter A, de Vriese AS. A case of secondary frosted branch angiitis in Behçet's disease. *Bull Soc Belge Ophthalmol* 2005;298:41–4.
- [24] Gupta A, Narang S, Gupta V, et al. Frosted branch angiitis associated with rapidly progressive glomerulonephritis. *Indian J Ophthalmol* 2002;50:317–9.
- [25] Shenoy R, Elagib EN, Al-Siyabi H. Frosted retinal branch angiitis in an immunocompetent adult due to herpes simplex virus. *Indian J Ophthalmol* 2001;49:56–7.
- [26] Fine HF, Smith JA, Murante BL, et al. Frosted branch angiitis in a child with HIV infection. *Am J Ophthalmol* 2001;131:394–6.
- [27] Ysasaga JE, Davis J. Frosted branch angiitis with ocular toxoplasmosis. *Arch Ophthalmol* 1999;117:1260–1.
- [28] Margo CE, Friedman SM, Purdy EP, et al. Retinohoroidal degeneration associated with progressive iris necrosis. *Arch Ophthalmol* 1990;108:989–92.
- [29] Annesley WH, Tomer TL, Shields JA. Multifocal placoid pigment epitheliopathy. *Am J Ophthalmol* 1973;76:511–8.
- [30] Azar Jr P, Gohd RS, Waltman D, et al. Acute posterior multifocal placoid pigment epitheliopathy associated with an adenovirus type 5 infection. *Am J Ophthalmol* 1975;80:1003–5.
- [31] Bird AC, Hamilton AM. Placoid pigment epitheliopathy presenting with bilateral serous retinal detachment. *Br J Ophthalmol* 1972;56:881–6.
- [32] Bullock JD, Fletcher RL. Cerebrospinal fluid abnormalities in acute posterior multifocal placoid pigment epitheliopathy. *Am J Ophthalmol* 1977;84:45–9.
- [33] DeLaey JJ. Fluoro-angiographic study of the choroid in man. *Doc Ophthalmol* 1978;45:113–39.
- [34] Deutman AF, Lion F. Choriocapillaris nonperfusion in acute multifocal placoid pigment epitheliopathy. *Am J Ophthalmol* 1977;84:652–7.
- [35] Deutman AF, Oosterhuis JA, Boen-Tan TN, et al. Acute posterior multifocal placoid pigment epitheliopathy; pigment epitheliopathy or choriocapillaritis. *Br J Ophthalmol* 1972;56:863–74.
- [36] Fishman GA, Rabb MF, Kaplan J. Acute posterior multifocal placoid pigment epitheliopathy. *Arch Ophthalmol* 1974;92:173–7.
- [37] Fitzpatrick PJ, Robertson DM. Acute posterior multifocal placoid pigment epitheliopathy. *Arch Ophthalmol* 1973;89:373–6.
- [38] Gass JDM. Acute posterior multifocal placoid pigment epitheliopathy. *Arch Ophthalmol* 1968;80:177–85.
- [39] Gass JDM. Acute posterior multifocal placoid pigment epitheliopathy: a long-term follow-up study. In: Fine SL, Owens SL, editors. Management of retinal vascular and macular disorders. Baltimore: Williams & Wilkins; 1983. p. 176–81.
- [40] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 504–10.
- [41] Hector RE. Acute posterior multifocal placoid pigment epitheliopathy. *Am J Ophthalmol* 1978;86:424–5.
- [42] Holt WS, Regan CDJ, Trempe C. Acute posterior multifocal placoid pigment epitheliopathy. *Am J Ophthalmol* 1976;81:403–12.
- [43] Jacklin HN. Acute posterior multifocal placoid pigment epitheliopathy and thyroiditis. *Arch Ophthalmol* 1977;95:995–7.
- [44] Jenkins RB, Savino PJ, Pilkerton AR. Placoid pigment epitheliopathy with swelling of the optic disks. *Arch Neurol* 1973;29:204–5.
- [45] Kirkham TH, Ffytche TJ, Sanders MD. Placoid pigment epitheliopathy with retinal vasculitis and papillitis. *Br J Ophthalmol* 1972;56:875–80.
- [46] Laatikainen LT, Erkkilä H. Clinical and fluorescein angiographic findings of acute multifocal central subretinal inflammation. *Acta Ophthalmol* 1973;51:645–55.
- [47] Lewis RA, Martonyi CL. Acute posterior multifocal placoid pigment epitheliopathy; a recurrence. *Arch Ophthalmol* 1975;93:235–8.
- [48] Lyness AL, Bird AC. Recurrences of acute posterior multifocal placoid pigment epitheliopathy. *Am J Ophthalmol* 1984;98:203–7.
- [49] McGuinness R, Mitchell P. A case of acute posterior multifocal placoid pigment epitheliopathy associated with erythema nodosum. *Aust J Ophthalmol* 1977;5:48–51.
- [50] Priluck IA, Robertson DM, Buettner H. Acute posterior multifocal placoid pigment epitheliopathy; urinary findings. *Arch Ophthalmol* 1981;99:1560–2.
- [51] Reuscher A. Zur Pathogenese der sogenannten akuten hinteren multifokalen placoiden Pigmentepitheliopathie. *Klin Monatsbl Augenheilkd* 1974;165:775–84.
- [52] Ryan SJ, Maumenee AE. Acute posterior multifocal placoid pigment epitheliopathy. *Am J Ophthalmol* 1972;74:1066–74.
- [53] Savino PJ, Weinberg RJ, Yassin JG, et al. Diverse manifestations of acute posterior multifocal placoid pigment epitheliopathy. *Am J Ophthalmol* 1974;77:659–62.
- [54] Sigelman J, Behrens M, Hilal S. Acute posterior multifocal placoid pigment epitheliopathy associated with cerebral vasculitis and homonymous hemianopia. *Am J Ophthalmol* 1979;88:919–24.
- [55] Van Buskirk EM, Lessell S, Friedman E. Pigmentary epitheliopathy and erythema nodosum. *Arch Ophthalmol* 1971;85:369–72.
- [56] Williams DF, Mieler WF. Long-term follow-up of acute multifocal posterior placoid pigment epitheliopathy. *Br J Ophthalmol* 1989;73:985–90.
- [57] Young NJA, Bird AC, Sehmi K. Pigment epithelial diseases with abnormal choroidal perfusion. *Am J Ophthalmol* 1980;90:607–18.
- [58] Wolf MD, Alward WLM, Folk JC. Long-term visual function in acute posterior multifocal placoid pigment epitheliopathy. *Arch*

- Ophthalmol 1991;109:800-3.
- [59] Fine HF, Kim E, Flynn TE, et al. Acute posterior multifocal placoid pigment epitheliopathy following varicella vaccination. *Br J Ophthalmol* 2010;94:282-3, 363.
- [60] Althaus C, Unsöld R, Figge C, et al. Cerebral complications in acute posterior multifocal placoid pigment epitheliopathy. *Ger J Ophthalmol* 1993;2:150-4.
- [61] Fishman GA, Baskin M, Jednock N. Spinal fluid pleocytosis in acute posterior multifocal placoid pigment epitheliopathy. *Ann Ophthalmol* 1977;33-6.
- [62] Smith CH, Savino PJ, Beck RW, et al. Acute posterior multifocal placoid pigment epitheliopathy and cerebral vasculitis. *Arch Neurol* 1983;40:48-50.
- [63] Spaide RF, Yannuzzi LA, Slakter J. Choroidal vasculitis in acute posterior multifocal placoid pigment epitheliopathy. *Br J Ophthalmol* 1991;75:685-7.
- [64] Stoll G, Reiners K, Schwartz A, et al. Acute posterior multifocal placoid pigment epitheliopathy with cerebral involvement. *J Neurol Neurosurg Psychiatr* 1991;54:77-9.
- [65] Tönjes W, Mielke U, Schmidt HJ, et al. Akute multifokale plakoide Pigmentepitheliopathie mit entzündlichem Liquorbefund; sonderform einer Borreliose? *Dtsch Med Wochenschr* 1989;114:793-5.
- [66] Weinstein JM, Bresnick GH, Bell CL, et al. Acute posterior multifocal placoid pigment epitheliopathy associated with cerebral vasculitis. *J Clin Neuro-Ophthalmol* 1988;8:195-201.
- [67] Wilson CA, Choromokos EA, Sheppard R. Acute posterior multifocal placoid pigment epitheliopathy and cerebral vasculitis. *Arch Ophthalmol* 1988;106:796-800.
- [68] Bodiguel E, Benhamou A, Le Hoang P, et al. Infarctus cerebral, epitheliopathie en plaques et sarcoïdose. *Rev Neurol* 1992;148:746-51.
- [69] Dick DJ, Newman PK, Richardson J, et al. Acute posterior multifocal placoid pigment epitheliopathy and sarcoidosis. *Br J Ophthalmol* 1988;72:74-7.
- [70] Laatikainen LT, Immonen IJR. Acute posterior multifocal placoid pigment epitheliopathy in connection with acute nephritis. *Retina* 1988;8:122-4.
- [71] Kawaguchi Y, Hara M, Hirose T, et al. A case of systemic lupus erythematosus complicated with multifocal posterior pigment epitheliopathy. *Ryumachi* 1990;30:396-400.
- [72] Bodine SR, Marino J, Camisa TJ, et al. Multifocal choroiditis with evidence of Lyme disease. *Ann Ophthalmol* 1992;24:169.
- [73] Wolf MD, Folk JC, Nelson JA, et al. Acute, posterior, multifocal, placoid, pigment epitheliopathy and Lyme disease. *Arch Ophthalmol* 1992;110:750.
- [74] Kinyoun JL. APMPE associated with Wegener's granulomatosis. *Retina* 2000;20:419-20.
- [75] Hsu CT, Harlan JB, Goldberg MF, et al. Acute posterior multifocal placoid pigment epitheliopathy associated with a systemic necrotizing vasculitis. *Retina* 2003;23:64-8.
- [76] Di Crecchio L, Parodi MB, Saviano S, et al. Acute posterior multifocal placoid pigment epitheliopathy and ulcerative colitis: a possible association. *Acta Ophthalmol Scand* 2001;79:319-21.
- [77] Hammer ME, Grizzard WS, Travies D. Death associated with acute posterior multifocal placoid pigment epitheliopathy. *Arch Ophthalmol* 1989;107:170-1.
- [78] Calabrese LH, Mallek JA. Primary angiitis of the central nervous system; report of 8 new cases, review of the literature, and proposal for diagnostic criteria. *Medicine* 1988;67:20-39.
- [79] Wolf MD, Folk JC, Goeken NE. Acute posterior multifocal pigment epitheliopathy and optic neuritis in a family. *Am J Ophthalmol* 1990;110:89-90.
- [80] Dhaliwal RS, Maguire AM, Flower RW, et al. Acute posterior multifocal placoid pigment epitheliopathy. An indocyanine green angiographic study. *Retina* 1993;13:317-25.
- [81] Souka AA, Hillenkamp J, Gora F, et al. Correlation between optical coherence tomography and autofluorescence in acute posterior multifocal placoid pigment epitheliopathy. *Graefes Arch Clin Exp Ophthalmol* 2006;244:1219-23.
- [82] Espinasse-Berrod MA, Gotte D, Parent de Cruzon H, et al. Un cas d'épithéliopathie en plaques associé à des néovaisseaux sous-rétiniens. *J Fr Ophtalmol* 1988;11:191-4.
- [83] Dhaliwal RS, Maguire AM, Flower RW, et al. Acute posterior multifocal placoid pigment epitheliopathy; an indocyanine green angiographic study. *Retina* 1993;13:317-25.
- [84] Wolf MD, Folk JC, Panknen CA, et al. HLA-B7 and HLA-DR2 antigens and acute posterior multifocal placoid pigment epitheliopathy. *Arch Ophthalmol* 1990;108:698-700.
- [85] Charteris DG, Khanna V, Dhillon B. Acute posterior multifocal placoid pigment epitheliopathy complicated by central retinal vein occlusion. *Br J Ophthalmol* 1989;73:765-8.
- [86] Charteris DG, Lee WR. Multifocal posterior uveitis: Clinical and pathological findings. *Br J Ophthalmol* 1990;74:688-93.
- [87] Wright BE, Bird AC, Hamilton AM. Placoid pigment epitheliopathy and Harada's disease. *Br J Ophthalmol* 1978;62:609-21.
- [88] Blinder KJ, Peyman GA, Paris CL. Diffuse posterior punctate pigment epitheliopathy. *Retina* 1994;14:31-5.
- [89] Taich A, Johnson MW. A syndrome resembling acute posterior multifocal placoid pigment epitheliopathy in older adults. *Trans Am Ophthalmol Soc* 2008;106:56-62. [discussion 63.]
- [90] Golchet PR, Jampol LM, Wilson D, et al. Persistent placoid maculopathy: a new clinical entity. *Trans Am Ophthalmol Soc* 2006;104:108-20.
- [91] Khairallah M, Ben Yahia S. Persistent placoid maculopathy. *Ophthalmology* 2008;115:220-1.
- [92] Golchet PR, Jampol LM, Wilson D, et al. Persistent placoid maculopathy: a new clinical entity. *Ophthalmology* 2007;114:1530-40.
- [93] Jones BE, Jampol LM, Yannuzzi LA, et al. Relentless placoid chorioretinitis: a new entity or an unusual variant of serpiginous chorioretinitis? *Arch Ophthalmol* 2000;118:931-8.
- [94] Yeh S, Lew JC, Wong WT, et al. Relentless placoid chorioretinitis associated with central nervous system lesions treated with mycophenolate mofetil. *Arch Ophthalmol* 2009;127:341-3.
- [95] Chen E. Relentless placoid chorioretinitis. *Ophthalmic Surg Lasers Imaging* 2009 January;40:87-8.
- [96] Amer R, Florescu T. Optical coherence tomography in relentless placoid chorioretinitis. *Clin Experiment Ophthalmol* 2008;36:388-90.
- [97] Orihara T, Wakabayashi T, Okada AA, et al. A young Japanese man with relentless placoid chorioretinitis. *Jpn J Ophthalmol* 2005;49:539-42.
- [98] Blumenkranz MS, Gass JDM, Clarkson JG. Atypical serpiginous choroiditis. *Arch Ophthalmol* 1982;100:1773-5.
- [99] Chisholm IH, Gass JDM, Hutton WL. The late stage of serpiginous (geographic) choroiditis. *Am J Ophthalmol* 1976;82:343-51.
- [100] Gass JDM. Stereoscopic atlas of macular diseases; a fundoscopic and angiographic presentation. St. Louis: CV Mosby; 1970. p. 66.
- [101] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 112.
- [102] Hamilton AM, Bird AC. Geographical choroidopathy. *Br J Ophthalmol* 1974;58:784-97.
- [103] Hardy RA, Schatz H. Macular geographic helicoid choroidopathy. *Arch Ophthalmol* 1987;105:1237-42.
- [104] Laatikainen L, Erkkilä H. Serpiginous choroiditis. *Br J Ophthalmol* 1974;58:777-83.

- [105] Laatikainen L, Erkkilä H. Subretinal and disc neovascularization in serpiginous choroiditis. *Br J Ophthalmol* 1982;66:326–31.
- [106] Mansour AM, Jampol LM, Packo KH, et al. Macular serpiginous choroiditis. *Retina* 1988;8:125–31.
- [107] Masi RJ, O'Connor GR, Kimura SJ. Anterior uveitis in geographic or serpiginous choroiditis. *Am J Ophthalmol* 1978;86:228–32.
- [108] Schatz H, Maumenee AE, Patz A. Geographic helicoid peripapillary choroidopathy: Clinical presentation and fluorescein angiographic findings. *Trans Am Acad Ophthalmol Otolaryngol* 1974;78:OP747–OP761.
- [109] Weiss H, Annesley Jr WH, Shields JA, et al. The clinical course of serpiginous choroidopathy. *Am J Ophthalmol* 1979;87:133–42.
- [110] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 136–45.
- [111] Jampol LM, Orth D, Daily MJ, et al. Subretinal neovascularization with geographic (serpiginous) choroiditis. *Am J Ophthalmol* 1979;88:683–869.
- [112] Wojno T, Meredith TA. Unusual findings in serpiginous choroiditis. *Am J Ophthalmol* 1982;94:650–5.
- [113] Friberg TR. Serpiginous choroiditis with branch vein occlusion and bilateral periphlebitis. *Arch Ophthalmol* 1988;106:585–6.
- [114] Giovannini A, Ripa E, Scassellati-Sforzolini B, et al. Indocyanine green angiography in serpiginous choroidopathy. *Eur J Ophthalmol* 1996;6:299–306.
- [115] Cardillo Piccolino F, Grosso A, Savini E. Fundus autofluorescence in serpiginous choroiditis. *Graefes Arch Clin Exp Ophthalmol* 2009;247:179–85.
- [116] Richardson RR, Cooper IS, Smith JL. Serpiginous choroiditis and unilateral extrapyramidal dystonia. *Ann Ophthalmol* 1981;13:15–19.
- [117] King DG, Grizzard WS, Sever RJ, et al. Serpiginous choroidopathy associated with elevated factor VIII–von Willebrand factor antigen. *Retina* 1990;10:97–101.
- [118] Broekhuysse RM, Van Herck M, Pinckers AH, et al. Immune responsiveness to retinal-S antigen and opsin in serpiginous choroiditis and other retinal diseases. *Doc Ophthalmol* 1988;69:83–93.
- [119] Gupta V, Gupta A, Arora S, et al. Presumed tubercular serpiginouslike choroiditis: clinical presentations and management. *Ophthalmology* 2003;110:1744–9.
- [120] Hooper PL, Kaplan HJ. Triple agent immunosuppression in serpiginous choroiditis. *Ophthalmology* 1991;98:944–52.
- [121] Laatikainen L, Tarkkanen A. Failure of cyclosporin A in serpiginous choroiditis. *J Ocular Ther Surg* 1984;3:280–2.
- [122] Secchi AG, Tognon MS, Maselli C. Cyclosporine-A in the treatment of serpiginous choroiditis. *Int Ophthalmol* 1990;14:395–9.
- [123] Vianna RN, Ozdal PC, Deschenes J, et al. Combination of azathioprine and corticosteroids in the treatment of serpiginous choroiditis. *Can J Ophthalmol* 2006;41:183–9.
- [124] Markomichelakis NN, Halkiadakis I, Papaeythymiou-Orchan S, et al. Intravenous pulse methylprednisolone therapy for acute treatment of serpiginous choroiditis. *Ocul Immunol Inflamm* 2006;14:29–33.
- [125] Akpek EK, Baltatzis S, Yang J, et al. Long-term immunosuppressive treatment of serpiginous choroiditis. *Ocul Immunol Inflamm* 2001;9:153–67.
- [126] Secchi AG, Tognon MS, Maselli C. Cyclosporine-A in the treatment of serpiginous choroiditis. *Int Ophthalmol* 1990;14:395–9.
- [127] Yannuzzi LA, Jampol LM, Rabb MF, et al. Unilateral acute idiopathic maculopathy. *Arch Ophthalmol* 1991;109:1411–6.
- [128] Fish RH, Territo C, Anand R. Pseudohypopyon in unilateral acute idiopathic maculopathy. *Retina* 1993;13:26–8.
- [129] Freund KB, Yannuzzi LA, Barile GR, et al. The expanding clinical spectrum of unilateral acute idiopathic maculopathy. *Arch Ophthalmol* 1996;114:555–9.
- [130] Beck AP, Jampol LM, Glaser DA, et al. Is coxsackievirus the cause of unilateral acute idiopathic maculopathy? *Arch Ophthalmol* 2004;122:121–3.
- [131] Aggio FB, Farah ME, Meirelles RL, et al. STRATUSOCT and multifocal ERG in unilateral acute idiopathic maculopathy. *Graefes Arch Clin Exp Ophthalmol* 2006;244:510–6.
- [132] Xu H, Lin P. Unilateral recurrent acute idiopathic maculopathy. *Graefes Arch Clin Exp Ophthalmol* 2011;249(6):941–944.
- [133] Lam BL, Lopez PF, Dubovy SR, et al. Transient electro-oculogram impairment in unilateral acute idiopathic maculopathy. *Doc Ophthalmol* 2009;119:157–61.
- [134] Ghazi NG, Daccache A, Conway BP. Acute idiopathic maculopathy: report of a bilateral case manifesting a macular hole. *Ophthalmology* 2007;114:e1–e6.
- [135] Haruta H, Sawa M, Saishin Y, et al. Clinical findings in unilateral acute idiopathic maculopathy: New findings in acute idiopathic maculopathy. *Int Ophthalmol* 2010;30:199–202.
- [136] Hong PH, Jampol LM, Dodwell DG, et al. Unifocal helioid choroiditis. *Arch Ophthalmol* 1997;115:1007–13.
- [137] Shields JA, Shields CL, Demirci H, et al. Solitary idiopathic choroiditis: the Richard B. Weaver lecture. *Arch Ophthalmol* 2002;120:311–9.
- [138] Krill AE, Deutman AF. Acute retinal pigment epitheliitis. *Am J Ophthalmol* 1972;74:193–205.
- [139] Chittum ME, Kalina RE. Acute retinal pigment epitheliitis. *Ophthalmology* 1987;94:1114–9.
- [140] Deutman AF. Acute retinal pigment epitheliitis. *Am J Ophthalmol* 1974;78:571–8.
- [141] Eifrig DE, Knobloch WH, Moran JA. Retinal pigment epitheliitis. *Ann Ophthalmol* 1977;9:639–42.
- [142] Friedman MW. Bilateral recurrent acute retinal pigment epitheliitis. *Am J Ophthalmol* 1975;79:567–70.
- [143] Luttrull JK. Acute retinal pigment epitheliitis. *Am J Ophthalmol* 1997;123:127–9.
- [144] Luttrull JK, Chittum ME. Acute retinal pigment epitheliitis. *Am J Ophthalmol* 1995;120:389–91.
- [145] Loh BK, Chee SP. Optical coherence tomography findings in acute retinal pigment epitheliitis. *Am J Ophthalmol* 2007;143:1071. [author reply.]
- [146] Hsu J, Fineman MS, Kaiser RS. Optical coherence tomography findings in acute retinal pigment epitheliitis. *Am J Ophthalmol* 2007;143:163–5.
- [147] Blanco-Rivera C, Campos-Garcia S. Acute retinal pigment epitheliitis: a case report. *Arch Soc Esp Oftalmol* 2007;82:451–3.
- [148] Aaberg TM. Multiple evanescent white dot syndrome. *Arch Ophthalmol* 1988;106:1162–3.
- [149] Borruat F-X, Othenin-Girard P, Safran AB. Multiple evanescent white dot syndrome. *Klin Monatsbl Augenheilkd* 1991;198:453–6.
- [150] Chung Y-M, Yeh T-S, Liu J-H. Increased serum IgM and IgG in the multiple evanescent white-dot syndrome. *Am J Ophthalmol* 1987;104:187–8.
- [151] Hamed LM, Glaser JS, Gass JDM, et al. Protracted enlargement of the blind spot in multiple evanescent white dot syndrome. *Arch Ophthalmol* 1989;107:194–8.
- [152] Jampol LM, Sieving PA, Pugh D, et al. Multiple evanescent white dot syndrome. I. Clinical findings. *Arch Ophthalmol* 1984;102:671–4.
- [153] Jost BF, Olk RJ, McGaughey A. Bilateral symptomatic multiple evanescent white-dot syndrome. *Am J Ophthalmol*



- 1986;101:489-90.
- [154] Laatikainen L, Immonen I. Multiple evanescent white dot syndrome. *Graefes Arch Clin Exp Ophthalmol* 1988;226:37-40.
- [155] Lefrançois A, Hamard H, Corbe C, et al. A propos d'un cas de MEWDS. Syndrome des taches blanches rétinienne fugaces. *J Fr Ophtalmol* 1989;12:103-9.
- [156] Leys A, Leys M, Jonckheere P, et al. Multiple evanescent white dot syndrome (MEWDS). *Bull Soc Belge Ophtalmol* 1990;236:97-108.
- [157] Leys M, Van Slycken S, Koller J, et al. Acute macular neuropathy after shock. *Bull Soc Belge Ophtalmol* 1991;241:95-104.
- [158] Mamalis N, Daily MJ. Multiple evanescent white-dot syndrome; a report of eight cases. *Ophthalmology* 1987;94:1209-12.
- [159] Meyer RJ, Jampol LM. Recurrences and bilaterality in the multiple evanescent white-dot syndrome. *Am J Ophthalmol* 1986;101:388-9.
- [160] Nakao K, Isashiki M. Multiple evanescent white dot syndrome. *Jpn J Ophthalmol* 1986;30:376-84.
- [161] Noske W, Danisevskis M, Priesnitz M, et al. Multiple evanescent white dot-syndrome. *Klin Monatsbl Augenheilkd* 1992;201:107-9.
- [162] Sieving PA, Fishman GA, Jampol LM, et al. Multiple evanescent white dot syndrome. II. Electrophysiology of the photoreceptors during retinal pigment epithelial disease. *Arch Ophthalmol* 1984;102:675-9.
- [163] Singh K, de Frank MP, Shults WT, et al. Acute idiopathic blind spot enlargement; a spectrum of disease. *Ophthalmology* 1991;98:497-502.
- [164] Slusher MM, Weaver RG. Multiple evanescent white dot syndrome. *Retina* 1988;8:132-5.
- [165] Takeda M, Kimura S, Tamiya M. Acute disseminated retinal pigment epitheliopathy. *Folia Ophthalmol Jpn* 1984;35:2613-20.
- [166] Fletcher WA, Imes RK, Goodman D, et al. Acute idiopathic blind spot enlargement; a big blind spot syndrome without optic disc edema. *Arch Ophthalmol* 1988;106:44-9.
- [167] Cooper ML, Lesser RL. Prolonged course of bilateral acute idiopathic blind spot enlargement. *J Clin Neuro-Ophthalmol* 1992;12:173-7.
- [168] Dodwell DG, Jampol LM, Rosenberg M, et al. Optic nerve involvement associated with the multiple evanescent white-dot syndrome. *Ophthalmology* 1990;97:862-8.
- [169] Gass JDM. Editorial: Retinal causes of the big blind spot syndrome. *J Clin Neuro-Ophthalmol* 1989;9:144-5.
- [170] Gass JDM, Hamed LM. Acute macular neuroretinopathy and multiple evanescent white dot syndrome occurring in the same patients. *Arch Ophthalmol* 1989;107:189-93.
- [171] Hamed LM, Schatz NJ, Glaser JS, et al. Acute idiopathic blind spot enlargement without optic disc edema. *Arch Ophthalmol* 1988;106:1030-1.
- [172] Wakakura M, Furuno K. Bilateral slowly progressive big blind spot syndrome. *J Neuro-Ophthalmol* 1989;9:141-3.
- [173] Ie D, Glaser BM, Murphy RP, et al. Indocyanine green angiography in multiple evanescent white-dot syndrome. *Am J Ophthalmol* 1994;117:7-12.
- [174] McCollum CJ, Kimble JA. Peripapillary subretinal neovascularization associated with multiple evanescent white-dot syndrome. *Arch Ophthalmol* 1992;110:13-15.
- [175] Wyhinny GJ, Jackson JL, Jampol LM, et al. Subretinal neovascularization following multiple evanescent white-dot syndrome. *Arch Ophthalmol* 1990;108:1384.
- [176] Keunen JEE, van Norren D. Foveal densitometry in the multiple evanescent white-dot syndrome. *Am J Ophthalmol* 1988;105:561-2.
- [177] van Meel GJ, Keunen JEE, van Norren D, et al. Scanning laser densitometry in multiple evanescent white dot syndrome. *Retina* 1993;13:29-35.
- [178] Nishimuta M, Kubota M, Kandatsu A, et al. Color vision defect in multiple evanescent white dot syndrome. *Folia Ophthalmol Jpn* 1988;39:211-7.
- [179] Aaberg TM, Campo RV, Joffe L. Recurrences and bilaterality in the multiple evanescent white-dot syndrome. *Am J Ophthalmol* 1985;100:29-37.
- [180] Tsai L, Jampol LM, Pollock SC, et al. Chronic recurrent multiple evanescent white dot syndrome. *Retina* 1994;14:160-3.
- [181] Callanan D, Gass JDM. Multifocal choroiditis and choroidal neovascularization associated with the multiple evanescent white dot and acute idiopathic blind spot enlargement syndrome. *Ophthalmology* 1992;99:1678-85.
- [182] Khorram KD, Jampol LM, Rosenberg MA. Blind spot enlargement as a manifestation of multifocal choroiditis. *Arch Ophthalmol* 1991;109:1403-7.
- [183] Kimmel AS, Folk JC, Thompson HS, et al. The multiple evanescent white-dot syndrome with acute blind spot enlargement. *Am J Ophthalmol* 1989;107:425-6.
- [184] Laatikainen L, Mustonen E. Asymmetry of retinitis pigmentosa-related to initial optic disc vasculitis. *Acta Ophthalmol* 1992;70:543-8.
- [185] Dreyer RF, Gass JDM. Multifocal choroiditis and panuveitis; a syndrome that mimics ocular histoplasmosis. *Arch Ophthalmol* 1984;102:1776-84.
- [186] Morgan CM, Schatz H. Recurrent multifocal choroiditis. *Ophthalmology* 1986;93:1138-47.
- [187] Watzke RC, Packer AJ, Folk JC, et al. Punctate inner choroidopathy. *Am J Ophthalmol* 1984;98:572-84.
- [188] Bos PJM, Deutman AF. Acute macular neuroretinopathy. *Am J Ophthalmol* 1975;80:573-84.
- [189] Gass JDM. Acute zonal occult outer retinopathy. *J Clin Neuro-Ophthalmol* 1993;13:79-97.
- [190] Jacobson SG, Morales DS, Sun XK, et al. Pattern of retinal dysfunction in acute zonal occult outer retinopathy. *Ophthalmology* 1995;102:1187-98.
- [191] Spaide RF. Collateral damage in acute zonal occult outer retinopathy. *Am J Ophthalmol* 2004;138:887-9.
- [192] Heckenlively JR, Ferreyra HA. Autoimmune retinopathy: a review and summary. *Semin Immunopathol* 2008;30:127-34.
- [193] Gass JD, Agarwal A, Scott IU. Acute zonal occult outer retinopathy: a long-term follow-up study. *Am J Ophthalmol* 2002;134:329-39.
- [194] Zweifel SA, Engelbert M, Laud K, et al. Outer retinal tubulation: a novel optical coherence tomography finding. *Arch Ophthalmol* 2009;127:1596-602.
- [195] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 3rd ed. St. Louis: CV Mosby; 1987. p. 514-15.
- [196] Gass JDM, Stern C. Acute annular outer retinopathy as a variant of acute zonal occult outer retinopathy. *Am J Ophthalmol* 1995;119:330-4.
- [197] Luckie A, Ai E, Del Piero E. Progressive zonal outer retinitis. *Am J Ophthalmol* 1994;118:583-8.
- [198] Mitamura Y, Ito H, Nakamura Y, et al. Acute annular outer retinopathy. *Clin Experiment Ophthalmol* 2005;33:545-8.
- [199] Cheung CM, Kumar V, Saeed T, et al. Acute annular outer retinopathy. *Arch Ophthalmol* 2002;120:993.
- [200] Fekrat S, Wilkinson CP, Chang B, et al. Acute annular outer retinopathy: report of four cases. *Am J Ophthalmol* 2000;130:636-44.
- [201] Salem M, Ismail L. Immune complex deposition lines in a case of retinal vasculitis. *Graefes Arch Clin Exp Ophthalmol* 1993;231:56-7.

- [202] Tang J, Stevens RA, Okada AA, et al. Association of antiretinal antibodies in acute annular outer retinopathy. *Arch Ophthalmol* 2008;126:130–2.
- [203] Harino S, Nagaya C, Matsuda S, et al. Indocyanine green angiographic findings in a case of acute annular outer retinopathy. *Retina* 2004 Oct;24(5):796–9.
- [204] Doran RML, Hamilton AM. Disciform macular degeneration in young adults. *Trans Ophthalmol Soc UK* 1982;102:471–80.
- [205] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St Louis: CV Mosby; 1977. p. 220, 360.
- [206] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 3rd ed. St. Louis: CV Mosby; 1987. p. 534–49.
- [207] Gass JDM, Margo CE, Levy MH. Progressive subretinal fibrosis and blindness in patients with multifocal granulomatous chorioretinitis. *Am J Ophthalmol* 1996;122:76–85.
- [208] Nozik RA, Dorsch W. A new chorioretinopathy associated with anterior uveitis. *Am J Ophthalmol* 1973;76:758–62.
- [209] Saraux H, Pelosse B, Guigui A. Choroïdite multifocale interne: Pseudohistoplasmose. Forme européenne de l'histoplasmose présumée américaine. *J Fr Ophtalmol* 1986;9:645–51.
- [210] Scheider A. Multifocal inner choroiditis. *Ger J Ophthalmol* 1993;2:1–9.
- [211] Singerman LJ. Discussion of Morgan CM, Schatz H: Recurrent multifocal choroiditis. *Ophthalmology* 1986;93:1143–7.
- [212] Tessler HH, Deutsch TA. Multifocal choroiditis (inflammatory pseudo-histoplasmosis). In: Saari KM, editor. *Uveitis update: proceedings of the First International Symposium on Uveitis held in Hanasaari, Espoo, Finland on May 16–19, 1984*. Amsterdam: Excerpta Medica; 1984. p. 221–6.
- [213] Spaide RF, Skerry JE, Yannuzzi LA, et al. Lack of the HLA-DR2 specificity in multifocal choroiditis and panuveitis. *Br J Ophthalmol* 1990;74:536–7.
- [214] Bottoni FG, Deutman AF, Aandekerck AL. Presumed ocular histoplasmosis syndrome and linear streak lesions. *Br J Ophthalmol* 1989;73:528–35.
- [215] Spaide RF, Yannuzzi LA, Freund KB. Linear streaks in multifocal choroiditis and panuveitis. *Retina* 1991;11:229–31.
- [216] Hershey JM, Pulido JS, Folberg R, et al. Non-caseating conjunctival granulomas in patients with multifocal choroiditis and panuveitis. *Ophthalmology* 1994;101:596–601.
- [217] Machida S, Fujiwara T, Murai K, et al. Idiopathic choroidal neovascularization as an early manifestation of inflammatory chorioretinal diseases. *Retina* 2008;28:703–10.
- [218] Palestine AG, Nussenblatt RB, Parver LM, et al. Progressive subretinal fibrosis and uveitis. *Br J Ophthalmol* 1984;68:667–73.
- [219] Tiedeman JS. Epstein–Barr viral antibodies in multifocal choroiditis and panuveitis. *Am J Ophthalmol* 1987;103:659–63.
- [220] Spaide RF, Sugan S, Yannuzzi LA, et al. Epstein–Barr virus antibodies in multifocal choroiditis and panuveitis. *Am J Ophthalmol* 1991;112:410–3.
- [221] Charteris DG, Champ C, Rosenthal AR, et al. Behçet's disease: Activated T lymphocytes in retinal perivasculitis. *Br J Ophthalmol* 1992;76:499–501.
- [222] Hirose S, Kuwabara T, Nussenblatt RB, et al. Uveitis induced in primates by interphotoreceptor retinoid-binding protein. *Arch Ophthalmol* 1986;104:1698–702.
- [223] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 304.
- [224] Miller MH, Spalton DJ, Fitzke FW, et al. Acute macular neuroretinopathy. *Ophthalmology* 1989;96:265–9.
- [225] Nagasawa N, Hommura S. A case of acute macular neuroretinopathy – an optical consideration on the peculiar features of fundus oculi. *Acta Soc Ophthalmol Jpn* 1982;86:2044–9.
- [226] Neetens A, Burvenich H. Presumed inflammatory maculopathies. *Trans Ophthalmol Soc UK* 1978;98:160–6.
- [227] Priluck IA, Buettner H, Robertson DM. Acute macular neuroretinopathy. *Am J Ophthalmol* 1978;86:775–8.
- [228] Putteman A, Toussaint D, Deutman AF. Neuroretinopathie maculaire aigue. *Bull Soc Belge Ophtalmol* 1982;199–200:35–41.
- [229] Rait JL, O'Day J. Acute macular neuroretinopathy. *Aust NZ J Ophthalmol* 1987;15:337–40.
- [230] Rush JA. Acute macular neuroretinopathy. *Am J Ophthalmol* 1977;83:490–4.
- [231] Sanders MD. Diagnostic difficulties in optic nerve disease and in papilloedema and disc oedema. *Trans Ophthalmol Soc UK* 1976;96:386–94.
- [232] Sieving PA, Fishman GA, Salzano T, et al. Acute macular neuroretinopathy: Early receptor potential change suggests photoreceptor pathology. *Br J Ophthalmol* 1984;68:229–34.
- [233] Van Herck M, Leys A, Missotten L. Acute macular neuroretinopathy. *Bull Soc Belge Ophtalmol* 1984;210:119–25.
- [234] Hughes EH, Siow YC, Hunyor AP. Acute macular neuroretinopathy: anatomic localisation of the lesion with high-resolution OCT. *Eye* 2009;23:2132–4.
- [235] Browning AC, Gupta R, Barber C, et al. The multifocal electroretinogram in acute macular neuroretinopathy. *Arch Ophthalmol* 2003;121:1506–7.
- [236] Gandorfer A, Ulbig MW. Scanning laser ophthalmoscope findings in acute macular neuroretinopathy. *Am J Ophthalmol* 2002;133:413–5.
- [237] Mirshahi A, Scharioth GB, Klais CM, et al. Enhanced visualization of acute macular neuroretinopathy by Heidelberg Retina Tomography. *Clin Experiment Ophthalmol* 2006;34:596–9.
- [238] Monson BK, Greenberg PB, Greenberg E, et al. High-speed, ultra-high-resolution optical coherence tomography of acute macular neuroretinopathy. *Br J Ophthalmol* 2007;91:119–20.
- [239] Shukla D, Arora A, Ambatkar S, et al. Optical coherence tomography findings in acute macular neuroretinopathy. *Eye* 2005;19:107–8.
- [240] O'Brien DM, Farmer SG, Kalina RE, et al. Acute macular neuroretinopathy following intravenous sympathomimetics. *Retina* 1989;9:281–6.
- [241] Guzak SV, Kalina RE, Chenoweth RG. Acute macular neuroretinopathy following adverse reaction to intravenous contrast media. *Retina* 1983;3:312–7.
- [242] Weinberg RJ, Nerney JJ. Bilateral submacular hemorrhages associated with an influenza syndrome. *Ann Ophthalmol* 1983;15:710–2.
- [243] Singh K, de Frank MP, Shults WT, et al. Acute idiopathic blind spot enlargement. A spectrum of disease. *Ophthalmology* 1991;98:497–502.
- [244] Gass JD, Hamed LM. Acute macular neuroretinopathy and multiple evanescent white dot syndrome occurring in the same patients. *Arch Ophthalmol* 1989;107:189–93.
- [245] Campo RV, Flindall RJ. Traumatic macular atrophy. *Ocular Ther* 1985;2:2–7.
- [246] Gillies M, Sarks J, Dunlop C, et al. Traumatic retinopathy resembling acute macular neuroretinopathy. *Aust N Z J Ophthalmol* 1997;25:207–10.
- [247] Goldbaum MH. Retinal depression sign indicating a small retinal infarct. *Am J Ophthalmol* 1978;86:45–55.
- [248] Belfort Jr R, Nishi M, Hayashi S, et al. Vogt–Koyanagi–Harada's disease in Brazil. *Jpn J Ophthalmol* 1988;32:344–7.
- [249] Beniz J, Forster DJ, Lean JS, et al. Variations in clinical features of the Vogt–Koyanagi–Harada syndrome. *Retina* 1991;11:275–80.
- [250] Ibanez HE, Grand MG, Meredith TA, et al. Magnetic resonance

- imaging findings in Vogt-Koyanagi-Harada syndrome. *Retina* 1994;14:164-8.
- [251] Ohno S, Char DH, Kimura SJ, et al. Vogt-Koyanagi-Harada syndrome. *Am J Ophthalmol* 1977;83:735-40.
- [252] Perry HD, Font RL. Clinical and histopathologic observations in severe Vogt-Koyanagi-Harada syndrome. *Am J Ophthalmol* 1977;83:242-54.
- [253] Shimizu K. Harada's, Behçet's, Vogt-Koyanagi syndromes - are they clinical entities? *Trans Am Acad Ophthalmol Otolaryngol* 1973;77:OP281-OP290.
- [254] Snyder DA, Tessler HH. Vogt-Koyanagi-Harada syndrome. *Am J Ophthalmol* 1980;90:69-75.
- [255] Sugiura S. Vogt-Koyanagi-Harada disease. *Jpn J Ophthalmol* 1978;22:9-35.
- [256] Tagawa Y, Sugiura S, Yakura H, et al. The association between major histocompatibility antigens (HLA) and Vogt-Koyanagi-Harada syndrome. *Acta Soc Ophthalmol Jpn* 1976;80:486-90.
- [257] Yoshioka H. Fluorescence fundus angiographic findings in early stage of Harada's syndrome. *Acta Soc Ophthalmol Jpn* 1968;72:2298-306.
- [258] Davis JL, Mittal KK, Freidlin V, et al. HLA associations and ancestry in Vogt-Koyanagi-Harada disease and sympathetic ophthalmia. *Ophthalmology* 1990;97:1137-42.
- [259] Martinez JA, Lopez PF, Sternberg Jr P, et al. Vogt-Koyanagi-Harada syndrome in patients with Cherokee ancestry. *Am J Ophthalmol* 1992;114:615-20.
- [260] Nussenblatt RB. Clinical studies of Vogt-Koyanagi-Harada's disease at the National Eye Institute, NIH, USA. *Jpn J Ophthalmol* 1988;32:330-3.
- [261] Lubin JR, Loewenstein JI, Frederick Jr AR. Vogt-Koyanagi-Harada syndrome with focal neurologic signs. *Am J Ophthalmol* 1981;91:332-41.
- [262] Zhao C, Zhang M, Wen X, et al. Choroidal folds in acute Vogt-Koyanagi-Harada disease. *Ocul Immunol Inflamm* 2009;17:282-8.
- [263] Lane CM, Jones CA, Bird AC. Optic disc swelling in sympathetic ophthalmitis and Harada's disease. *Trans Ophthalmol Soc UK* 1986;105:667-73.
- [264] Kimura R, Sakai M, Okabe H. Transient shallow anterior chamber as initial symptom in Harada's syndrome. *Arch Ophthalmol* 1981;99:1604-6.
- [265] Shirato S, Hayashi K, Masuda K. Acute angle closure glaucoma as an initial sign of Harada's disease--report of two cases. *Jpn J Ophthalmol* 1980;24:260-6.
- [266] Tomimori S, Uyama M. Shallow anterior chamber and transient myopia as initial signs of Harada's disease. *Jpn J Clin Ophthalmol* 1977;31:1271-3.
- [267] Forster DJ, Cano MR, Green RL, et al. Echographic features of the Vogt-Koyanagi-Harada syndrome. *Arch Ophthalmol* 1990;108:1421-6.
- [268] Nagaya T. Use of the electro-oculogram for diagnosing and following the development of Harada's disease. *Am J Ophthalmol* 1972;74:99-109.
- [269] Johnson CA, Teitelbaum CS. Magnetic resonance imaging in Vogt-Koyanagi-Harada syndrome. *Arch Ophthalmol* 1990;108:783-4.
- [270] Rubsamen PE, Gass JDM. Vogt-Koyanagi-Harada syndrome; clinical course, therapy, and long-term visual outcome. *Arch Ophthalmol* 1991;109:682-7.
- [271] Sasamoto Y, Ohno S, Matsuda H. Studies on corticosteroid therapy in Vogt-Koyanagi-Harada disease. *Ophthalmologica* 1990;201:162-7.
- [272] Shimizu K. Zur Symptomatologie und Therapie der Harada'schen Krankheit. *Dtsch Ophthalmol Ges* 1968;69:245-7.
- [273] Wilson P. Sympathetic ophthalmitis simulating Harada's disease. *Br J Ophthalmol* 1962;46:626-8.
- [274] Chung Y-M, Yeh T-S. Linear streak lesions of the fundus equator associated with Vogt-Koyanagi-Harada syndrome. *Am J Ophthalmol* 1990;109:745-6.
- [275] Carlson MR, Kerman BM. Hemorrhagic macular detachment in the Vogt-Koyanagi-Harada syndrome. *Am J Ophthalmol* 1977;84:632-5.
- [276] Moorthy RS, Chong LP, Smith RE, et al. Subretinal neovascular membranes in Vogt-Koyanagi-Harada syndrome. *Am J Ophthalmol* 1993;116:164-70.
- [277] To KW, Nadel AJ, Brockhurst RJ. Optic disc neovascularization in association with Vogt-Koyanagi-Harada syndrome. *Arch Ophthalmol* 1990;108:918-9.
- [278] Tabbara KF. Scleromalacia associated with Vogt-Koyanagi-Harada syndrome. *Am J Ophthalmol* 1988;105:694-5.
- [279] Chan C-C, Palestine AG, Kuwabara T, et al. Immunopathologic study of Vogt-Koyanagi-Harada syndrome. *Am J Ophthalmol* 1988;105:607-11.
- [280] Kahn M, Pepose JS, Green WR, et al. Immunocytologic findings in a case of Vogt-Koyanagi-Harada syndrome. *Ophthalmology* 1993;100:1191-8.
- [281] Sakamoto T, Murata T, Inomata H. Class II major histocompatibility complex on melanocytes of Vogt-Koyanagi-Harada disease. *Arch Ophthalmol* 1991;109:1270-4.
- [282] Chan C-C. Relationship between sympathetic ophthalmia, phacoanaphylactic endophthalmitis, and Vogt-Koyanagi-Harada disease. *Ophthalmology* 1988;95:619-24.
- [283] Inomata H, Sakamoto T. Immunohistochemical studies of Vogt-Koyanagi-Harada disease with sunset sky fundus. *Curr Eye Res* 1990;9(Suppl.):35-40.
- [284] Bird AC, Hamilton AM. Placoid pigment epitheliopathy presenting with bilateral serous retinal detachment. *Br J Ophthalmol* 1972;56:881-6.
- [285] Wright BE, Bird AC, Hamilton AM. Placoid pigment epitheliopathy and Harada's disease. *Br J Ophthalmol* 1978;62:609-21.
- [286] Albert DM, Nordlund JJ, Lerner AB. Ocular abnormalities occurring with vitiligo. *Ophthalmology* 1979;86:1145-58.
- [287] Friedman AH, Deutsch-Sokol RH. Sugiura's sign; perilimbal vitiligo in the Vogt-Koyanagi-Harada syndrome. *Ophthalmology* 1981;88:1159-65.
- [288] Manger III CC, Ober RR. Retinal arteriovenous anastomoses in the Vogt-Koyanagi-Harada syndrome. *Am J Ophthalmol* 1980;89:186-91.
- [289] Ohno S, Minakawa R, Matsuda H. Clinical studies of Vogt-Koyanagi-Harada's disease. *Jpn J Ophthalmol* 1988;32:334-43.
- [290] Chan C-C, Palestine AG, Nussenblatt RB, et al. Anti-retinal auto-antibodies, in Vogt-Koyanagi-Harada syndrome, Behçet's disease, and sympathetic ophthalmia. *Ophthalmology* 1985;92:1025-8.
- [291] Hammer H. Cellular hypersensitivity to uveal pigment confirmed by leucocyte migration tests in sympathetic ophthalmitis and the Vogt-Koyanagi-Harada syndrome. *Br J Ophthalmol* 1974;58:773-6.
- [292] Itho S, Kurimoto S, Kouno T. Vogt-Koyanagi-Harada disease in monozygotic twins. *Int Ophthalmol* 1992;16:49-54.
- [293] Ashkenazi I, Gutman I, Melamed S, et al. Vogt-Koyanagi-Harada syndrome in two siblings. *Metab Pediatr Syst Ophthalmol* 1991;14:64-7.
- [294] Read RW, Holland GN, Rao NA, et al. Revised diagnostic criteria for Vogt-Koyanagi-Harada disease. Report of an international committee on nomenclature. *Am J Ophthalmol* 2001;131:647-652.

- [295] Liu X, Yang P, Lin X, et al. Inhibitory effect of cyclosporin A and corticosteroids on the production of IFN-gamma and IL-17 by T cells in Vogt-Koyanagi-Harada syndrome. *Clin Immunol* 2009;131:333-42.
- [296] Kawaguchi T, Horie S, Bouchenaki N, et al. Suboptimal therapy controls clinically apparent disease but not subclinical progression of Vogt-Koyanagi-Harada disease. *Int Ophthalmol* 2010;30:41-50.
- [297] Zhang XY, Wang X-M, Hu T-S. Profiling human leukocyte antigens in Vogt-Koyanagi-Harada syndrome. *Am J Ophthalmol* 1992;113:567-72.
- [298] Zhao M, Jiang Y, Abrahams IW. Association of HLA antigens with Vogt-Koyanagi-Harada syndrome in a Han Chinese population. *Arch Ophthalmol* 1991;109:368-70.
- [299] Forster DJ, Green RL, Rao NA. Unilateral manifestations of the Vogt-Koyanagi-Harada syndrome in a 7-year-old child. *Am J Ophthalmol* 1991;111:380-2.
- [300] Kremer I, Yassur Y. Unilateral atypical retinal pigment epitheliopathy associated with serous retinal detachment. *Ann Ophthalmol* 1992;24:75-7.
- [301] Wald KJ, Spaide R, Patalano VJ, et al. Posterior scleritis in children. *Am J Ophthalmol* 1992;113:281-6.
- [302] Fries PD, Char DH, Crawford JB, et al. Sympathetic ophthalmia complicating helium ion irradiation of a choroidal melanoma. *Arch Ophthalmol* 1987;105:1561-4.
- [303] Gass JDM. Correlation of fluorescein angiography and histopathology. *Doc Ophthalmol Proc Ser* 1976;9:359-65.
- [304] Gass JDM. Sympathetic ophthalmia following vitrectomy. *Am J Ophthalmol* 1982;93:552-8.
- [305] Lewis ML, Gass JDM, Spencer WH. Sympathetic uveitis after trauma and vitrectomy. *Arch Ophthalmol* 1978;96:263-7.
- [306] Liddy BSTL, Stuart J. Sympathetic ophthalmia in Canada. *Can J Ophthalmol* 1972;7:157-9.
- [307] Maisel JM, Vorwerk PA. Sympathetic uveitis after giant tear repair. *Retina* 1989;9:122-6.
- [308] Makley Jr TA, Azar A. Sympathetic ophthalmia; a long-term follow-up. *Arch Ophthalmol* 1978;96:257-62.
- [309] Margo CE, Pautler SE. Granulomatous uveitis after treatment of a choroidal melanoma with proton-beam irradiation. *Retina* 1990;10:140-3.
- [310] Shimizu K, Yokochi K, Kobayashi Y. Inflammations of the choroid. *Doc Ophthalmol Proc Ser* 1976;9:385-90.
- [311] Ahmad N, Soong TK, Salvi S, et al. Sympathetic ophthalmia after ruthenium plaque brachytherapy. *Br J Ophthalmol* 2007;91:399-401.
- [312] Bechrakis NE, Müller-Stolzenburg NW, Helbig H, et al. Sympathetic ophthalmia following laser cyclocoagulation. *Arch Ophthalmol* 1994;112:80-4.
- [313] Lam S, Tessler HH, Lam BL, et al. High incidence of sympathetic ophthalmia after contact and noncontact neodymium: YAG cyclotherapy. *Ophthalmology* 1992;99:1818-22.
- [314] Bec P, Arne JL, Aubry JP, et al. Angiographie fluoresceinique du fond d'oeil au cours d'une ophthalmie sympathique. *Doc Ophthalmol Proc Ser* 1976;9:401-6.
- [315] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 2nd ed. St. Louis: CV Mosby; 1977. p. 120.
- [316] McPherson Jr SD, Dalton HT. Posterior form sympathetic ophthalmia. *Trans Am Ophthalmol Soc* 1975;73:251-63.
- [317] Dreyer Jr WB, Zegarra H, Zakov ZN, et al. Sympathetic ophthalmia. *Am J Ophthalmol* 1981;92:816-23.
- [318] Spitznas M. Fluoreszenzangiographie der sympathischen Ophthalmie. *Klin Monatsbl Augenheilkd* 1976;169:195-200.
- [319] Jain IS, Gangwar DN, Kaul RL, et al. Sympathetic ophthalmitis simulating Vogt-Koyanagi-Harada's disease after retinal detachment surgery. *Ann Ophthalmol* 1979;11:1121-3.
- [320] Rao NA, Marak GE. Sympathetic ophthalmia simulating Vogt-Koyanagi-Harada's disease: a clinico-pathologic study of four cases. *Jpn J Ophthalmol* 1983;27:506-11.
- [321] Albert DM, Nordlund JJ, Lerner AB. Ocular abnormalities occurring with vitiligo. *Ophthalmology* 1979;86:1145-60.
- [322] Chan C-C, Benezra D, Rodrigues MM, et al. Immunohistochemistry and electron microscopy of choroidal infiltrates and Dalen-Fuchs nodules in sympathetic ophthalmia. *Ophthalmology* 1985;92:580-90.
- [323] Chan C-C, Nussenblatt RB, Fujikawa LS, et al. Sympathetic ophthalmia; immunopathological findings. *Ophthalmology* 1986;93:690-5.
- [324] Font RL, Fine BS, Messmer E, et al. Light and electron microscopic study of Dalén-Fuchs nodules in sympathetic ophthalmia. *Ophthalmology* 1982;90:66-75.
- [325] Ishikawa T, Ikui H. The fine structure of the Dalen-Fuchs nodule in sympathetic ophthalmia. Report I. Changes of the pigment epithelial cells within the Dalen-Fuchs nodule. *Jpn J Ophthalmol* 1972;16:254-65.
- [326] Jakobiec FA, Marboe CC, Knowles II DM, et al. Human sympathetic ophthalmia; an analysis of the inflammatory infiltrate by hybridoma-monoclonal antibodies, immunochemistry, and correlative electron microscopy. *Ophthalmology* 1983;90:76-95.
- [327] Lubin JR, Albert DM, Weinstein M. Sixty-five years of sympathetic ophthalmia; a clinicopathologic review of 105 cases (1913-1978). *Ophthalmology* 1980;87:109-21.
- [328] Müller-Hermelink HK, Kraus-Mackiw E, Daus W. Early stage of human sympathetic ophthalmia; histologic and immunopathologic findings. *Arch Ophthalmol* 1984;102:1353-7.
- [329] Rao NA, Xu S, Font RL. Sympathetic ophthalmia; an immunohistochemical study of epithelioid and giant cells. *Ophthalmology* 1985;92:1660-2.
- [330] Segawa K, Matsuoka N. Sympathetic ophthalmia: A comparative fluorographic and electronmicroscopic study. *Jpn J Ophthalmol* 1971;15:81-7.
- [331] Rao NA, Wacker WB, Marak Jr GE. Experimental allergic uveitis: clinicopathologic features associated with varying doses of S antigen. *Arch Ophthalmol* 1979;97:1954-8.
- [332] Chew EY, Crawford J. Sympathetic ophthalmia and choroidal neovascularization. *Arch Ophthalmol* 1988;106:1507-8.
- [333] Wang RC, Zamir E, Dugel PU, et al. Progressive subretinal fibrosis and blindness associated with multifocal granulomatous chorioretinitis: a variant of sympathetic ophthalmia. *Ophthalmology* 2002;109:1527-31.
- [334] Jennings T, Tessler HH. Twenty cases of sympathetic ophthalmia. *Br J Ophthalmol* 1989;73:140-5.
- [335] Kaplan HJ, Waldrep JC, Chan WC, et al. Human sympathetic ophthalmia; immunologic analysis of the vitreous and uvea. *Arch Ophthalmol* 1986;104:240-4.
- [336] Reynard M, Riffenburgh RS, Maes EF. Effect of corticosteroid treatment and enucleation on the visual prognosis of sympathetic ophthalmia. *Am J Ophthalmol* 1983;96:290-4.
- [337] Reynard M, Shulman IA, Azen SP, et al. Histocompatibility antigens in sympathetic ophthalmia. *Am J Ophthalmol* 1983;95:216-21.
- [338] Buller AJ, Doris JP, Bonshek R, et al. Sympathetic ophthalmia following severe fungal keratitis. *Eye* 2006;20:1306-7.
- [339] Androudi S, Theodoridou A, Praidou A, et al. Sympathetic ophthalmia following postoperative endophthalmitis and evisceration. *Hippokratia* 2010;14:131-2.
- [340] Rathinam SR, Rao NA. Sympathetic ophthalmia following postoperative bacterial endophthalmitis: a clinicopathologic study. *Am J Ophthalmol* 2006;141:498-507.



- [341] Gupta V, Gupta A, Dogra MR. Posterior sympathetic ophthalmia: a single centre long-term study of 40 patients from North India. *Eye* 2008;22:1459-64.
- [342] Gass JDM, Chuang EL, Granek H. Acute exudative polymorphous vitelliform maculopathy. *Trans Am Ophthalmol Soc* 1988;86:354-63.
- [343] Vaclavik V, Ooi KG, Bird AC, et al. Autofluorescence findings in acute exudative polymorphous vitelliform maculopathy. *Arch Ophthalmol* 2007;125:274-7.
- [344] Kozma P, Locke KG, Wang YZ, et al. Persistent cone dysfunction in acute exudative polymorphous vitelliform maculopathy. *Retina* 2007;27:109-13.
- [345] Vianna RN, Muralha A, Muralha L. Indocyanine-green angiography in acute idiopathic exudative polymorphous vitelliform maculopathy. *Retina* 2003;23:538-41.
- [346] Cruz-Villegas V, Villate N, Knighton RW, et al. Optical coherence tomographic findings in acute exudative polymorphous vitelliform maculopathy. *Am J Ophthalmol* 2003;136:760-3.
- [347] Chan CK, Gass JD, Lin SG. Acute exudative polymorphous vitelliform maculopathy syndrome. *Retina* 2003;23:453-62.
- [348] Spaide R. Autofluorescence from the outer retina and subretinal space: hypothesis and review. *Retina* 2008;28:5-35.
- [349] Nieuwendijk TJ, Hooymans JM. Paraneoplastic vitelliform retinopathy associated with metastatic choroidal melanoma. *Eye (Lond)* 2007;21:1436-7.
- [350] Sotodeh M, Paridaens D, Keunen J, et al. Paraneoplastic vitelliform retinopathy associated with cutaneous or uveal melanoma and metastases. *Klin Monbl Augenheilkd* 2005;222:910-4.
- [351] Eksandh L, Adamus G, Mosgrove L, et al. Autoantibodies against bestrophin in a patient with vitelliform paraneoplastic retinopathy and a metastatic choroidal malignant melanoma. *Arch Ophthalmol* 2008;126:432-5.
- [352] Cantrill HL, Folk JC. Multifocal choroiditis associated with progressive subretinal fibrosis. *Am J Ophthalmol* 1986;101:170-80.
- [353] Calixto N. Histopathologic and immunohistopathologic features of subretinal fibrosis and uveitis syndrome. *Am J Ophthalmol* 1988;105:220-1.
- [354] Gass JDM, Margo CE, Levy MH. Progressive subretinal fibrosis and blindness in patients with multifocal granulomatous chorioretinitis. *Am J Ophthalmol* 1996;122:76-85.
- [355] Gass JDM, editor. Giant-cell reaction surrounding Bruch's membrane and internal limiting membrane of the retina after herpes zoster ophthalmicus and acute retinal necrosis. Presented Eastern Ophthalmic Pathology Club 1991.
- [356] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 146-47.
- [357] Palestine AG, Nussenblatt RB, Chan CC, et al. Histopathology of the subretinal fibrosis and uveitis syndrome. *Ophthalmology* 1985;92:838-44.
- [358] Kim MK, Chan CC, Belfort Jr R, et al. Histopathologic and immunohistopathologic features of subretinal fibrosis and uveitis syndrome. *Am J Ophthalmol* 1987;104:15-23.
- [359] Green WR, Zimmerman LE. Granulomatous reaction to Descemet's membrane. *Am J Ophthalmol* 1967;64:555-8.
- [360] Gass JDM. Differential diagnosis of intraocular tumors; a stereoscopic presentation. St. Louis: CV Mosby; 1974. p. 180, 200.
- [361] Benson WE, Shields JA, Tasman W, et al. Posterior scleritis; a cause of diagnostic confusion. *Arch Ophthalmol* 1979;97:1482-6.
- [362] Berger B, Reeser F. Retinal pigment epithelial detachments in posterior scleritis. *Am J Ophthalmol* 1980;90:604-6.
- [363] Brod RD, Saul RF. Nodular posterior scleritis. *Arch Ophthalmol* 1990;108:1170-1.
- [364] Calthorpe CM, Watson PG, McCartney AC. Posterior scleritis: a clinical and histological survey. *Eye* 1988;2:267-77.
- [365] Cleary PE, Watson PG, McGill JI, et al. Visual loss due to posterior segment disease in scleritis. *Trans Ophthalmol Soc UK* 1975;95:297-300.
- [366] Feldon SE, Sigelman J, Albert DM, et al. Clinical manifestations of brawny scleritis. *Am J Ophthalmol* 1978;85:781-7.
- [367] Finger PT, Perry HD, Packer S, et al. Posterior scleritis as an intraocular tumour. *Br J Ophthalmol* 1990;74:121-2.
- [368] Jensen JE, Fiedelius HC, Prause JU, et al. An unusual ophthalmic tumour in a 5-year-old boy. *Acta Ophthalmol Suppl* 1992;204:110-2.
- [369] Sears ML. Choroidal and retinal detachments associated with scleritis. *Am J Ophthalmol* 1964;58:764-6.
- [370] Tuft SJ, Watson PG. Progression of scleral disease. *Ophthalmology* 1991;98:467-71.
- [371] Watson PG. The diagnosis and management of scleritis. *Ophthalmology* 1980;87:716-20.
- [372] Leitch RJ, Bearn MA, Watson PG. Exudative retinal detachment and posterior scleritis associated with massive scleral thickening and calcification treated by scleral decompression. *Br J Ophthalmol* 1992;76:109-12.
- [373] Shukla D, Agrawal D, Dhawan A, et al. Posterior scleritis presenting with simultaneous branch retinal artery occlusion and exudative retinal detachment. *Eye (Lond)* 2009;23:1475-7.
- [374] Shukla D, Mohan KC, Rao N, et al. Posterior scleritis causing combined central retinal artery and vein occlusion. *Retina* 2004;24:467-9.
- [375] McClusky P, Wakefield D. Intravenous pulse methylprednisolone in scleritis. *Arch Ophthalmol* 1987;105:793-7.
- [376] Medway DC, Donzis DM, Donzis PB. Ketoprofen in the treatment of scleritis. *Am J Ophthalmol* 1991;111:249-50.
- [377] Mondino BJ, Phinney RB. Treatment of scleritis with combined oral prednisone and indomethacin therapy. *Am J Ophthalmol* 1988;106:473-9.
- [378] Rosenbaum JT, Robertson Jr JE. Recognition of posterior scleritis and its treatment with indomethacin. *Retina* 1993;13:17-21.
- [379] Wakefield D, McClusky P. Cyclosporin therapy for severe scleritis. *Br J Ophthalmol* 1989;73:743-6.
- [380] Johnson MH, DeFilipp GJ, Zimmerman RA, et al. Scleral inflammatory disease. *Am J Neuroradiol* 1987;8:861-5.
- [381] Yap E-Y, Robertson DM, Buettner H. Scleritis as an initial manifestation of choroidal malignant melanoma. *Ophthalmology* 1992;99:1693-7.
- [382] Bullen CL, Liesegang TJ, McDonald TJ, et al. Ocular complications of Wegener's granulomatosis. *Ophthalmology* 1983;90:279-90.
- [383] Cassan SM, Coles DT, Harrison Jr EG. The concept of limited forms of Wegener's granulomatosis. *Am J Med* 1970;49:366-79.
- [384] Jaben SL, Norton EWD. Exudative retinal detachment in Wegener's granulomatosis: case report. *Ann Ophthalmol* 1982;14:717-20.
- [385] Leveille AS, Morse PH. Combined detachments in Wegener's granulomatosis. *Br J Ophthalmol* 1981;65:564-7.
- [386] Spalton DJ, Graham EM, Page NG, et al. Ocular changes in limited forms of Wegener's granulomatosis. *Br J Ophthalmol* 1981;65:553-63.
- [387] Vogiatzis KV. Bilateral blindness due to necrotizing scleritis in a case of Wegener's granulomatosis. *Ann Ophthalmol* 1983;15:185-8.
- [388] Hoang-Xuan T, Foster CS, Rice BA. Scleritis in relapsing polycondritis; response to therapy. *Ophthalmology* 1990;97:892-8.
- [389] Magargal LE, Donoso LA, Goldberg RE, et al. Ocular

- manifestations of relapsing polycondritis. *Retina* 1981;1:96-9.
- [390] Turgeon PW, Slamovits TL. Scleritis as the presenting manifestation of procainamide-induced lupus. *Ophthalmology* 1989;96:68-71.
- [391] Ellis Jr GS, Pakalnis VA, Worley G, et al. *Toxocara canis* infestation; clinical and epidemiological associations with seropositivity in kindergarten children. *Ophthalmology* 1986;93:1032-7.
- [392] Schuman JS, Weinberg RS, Ferry AP, et al. Toxoplasmic scleritis. *Ophthalmology* 1988;95:1399-403.
- [393] Kalina RE, Mills RP. Observations on long-term follow-up of posterior scleritis. *Am J Ophthalmol* 1986;102:671-2.
- [394] Singh G, Guthoff R, Foster CS. Observations on long-term follow-up of posterior scleritis. *Am J Ophthalmol* 1986;101:570-5.
- [395] Hoover DL, Khan JA, Giangiacomo J. Pediatric ocular sarcoidosis. *Surv Ophthalmol* 1986;30:215-28.
- [396] De Potter P, Shields JA, Shields CL, et al. Unusual MRI findings in metastatic carcinoma to the choroid and optic nerve: a case report. *Int Ophthalmol* 1992;16:39-44.
- [397] Merritt JC, Ballard DJ, Checkoway H, et al. Ocular sarcoidosis; a case-control study among black patients. *Ann NY Acad Sci* 1986;465:619-24.
- [398] Olk RJ, Lipmann MJ, Cundiff HC, et al. Solitary choroidal mass as the presenting sign in systemic sarcoidosis. *Br J Ophthalmol* 1983;67:826-9.
- [399] Tingey DP, Gonder JR. Ocular sarcoidosis presenting as a solitary choroidal mass. *Can J Ophthalmol* 1992;27:25-9.
- [400] Aaberg TA. Editorial: The role of the ophthalmologist in the management of sarcoidosis. *Am J Ophthalmol* 1987;103:99-100.
- [401] Jabs DA, Johns CJ. Ocular involvement in chronic sarcoidosis. *Am J Ophthalmol* 1986;102:297-301.
- [402] Karma A. Ophthalmic changes in sarcoidosis. *Acta Ophthalmol Suppl* 1979:141.
- [403] Ohara K, Okubo A, Sasaki H, et al. Intraocular manifestations of systemic sarcoidosis. *Jpn J Ophthalmol* 1992;36:452-7.
- [404] Spalton DJ, Sanders MD. Fundus changes in histologically confirmed sarcoidosis. *Br J Ophthalmol* 1981;65:348-58.
- [405] Weinreb RN, Tessler H. Laboratory diagnosis of ophthalmic sarcoidosis. *Surv Ophthalmol* 1984;28:653-64.
- [406] Franceschetti A, Babel J. La chorio-rétinite en "taches de bougie," manifestation de la maladie de Besnier-Boeck. *Ophthalmologica* 1949;118:701-10.
- [407] Gass JDM, Olson CL. Sarcoidosis with optic nerve and retinal involvement; a clinicopathologic case report. *Trans Am Acad Ophthalmol Otolaryngol* 1973;77:OP739-OP750.
- [408] Gould HL, Kaufman HE. Boeck's sarcoid of the ocular fundus; historical review and report of a case. *Am J Ophthalmol* 1961;52:633-7.
- [409] Letocha CE, Shields JA, Goldberg RE. Retinal changes in sarcoidosis. *Can J Ophthalmol* 1975;10:184-92.
- [410] Brownstein S, Jannotta FS. Sarcoid granulomas of the optic nerve and retina; report of a case. *Can J Ophthalmol* 1974;9:372-8.
- [411] DeBroff BM, Donahue SP. Bilateral optic neuropathy as the initial manifestation of systemic sarcoidosis. *Am J Ophthalmol* 1993;116:108-11.
- [412] Galetta S, Schatz NJ, Glaser JS. Acute sarcoid optic neuropathy with spontaneous recovery. *J Clin Neuro-Ophthalmol* 1989;9:27-32.
- [413] Krohel GB, Charles H, Smith RS. Granulomatous optic neuropathy. *Arch Ophthalmol* 1981;99:1053-5.
- [414] Laties AM, Scheie HG. Evolution of multiple small tumors in sarcoid granuloma of the optic disk. *Am J Ophthalmol* 1972;74:60-7.
- [415] Lustgarten JS, Mindel JS, Yablonski ME, et al. An unusual presentation of isolated optic nerve sarcoidosis. *J Clin Neuro-Ophthalmol* 1983;3:13-18.
- [416] Mansour AM. Sarcoid optic disc edema and optic chiasm shunts. *J Clin Neuro-Ophthalmol* 1986;6:47-52.
- [417] Noble KG. Ocular sarcoidosis occurring as a unilateral optic disk vascular lesion. *Am J Ophthalmol* 1979;87:490-3.
- [418] Chumbley LC, Kearns TP. Retinopathy of sarcoidosis. *Am J Ophthalmol* 1972;73:123-31.
- [419] Doxanas MT, Kelley JS, Prout TE. Sarcoidosis with neovascularization of the optic nerve head. *Am J Ophthalmol* 1980;90:347-51.
- [420] Denis P, Nordmann J-P, Laroche L, et al. Branch retinal vein occlusion associated with a sarcoid choroidal granuloma. *Am J Ophthalmol* 1992;113:333-4.
- [421] Kimmel AS, McCarthy MJ, Blodi CF, et al. Branch retinal vein occlusion in sarcoidosis. *Am J Ophthalmol* 1989;107:561-2.
- [422] Asdourian GK, Goldberg MF, Busse BJ. Peripheral retinal neovascularization in sarcoidosis. *Arch Ophthalmol* 1975;93:787-91.
- [423] Duker JS, Brown GC, McNamara JA. Proliferative sarcoid retinopathy. *Ophthalmology* 1988;95:1680-6.
- [424] Graham EM, Stanford MR, Shilling JS, et al. Neovascularisation associated with posterior uveitis. *Br J Ophthalmol* 1987;71:826-33.
- [425] Madigan Jr JC, Gragoudas ES, Schwartz PL, et al. Peripheral retinal neovascularization in sarcoidosis and sickle cell anemia. *Am J Ophthalmol* 1977;83:387-91.
- [426] Kelly PJ, Weiter JJ. Resolution of optic disk neovascularization associated with intraocular inflammation. *Am J Ophthalmol* 1980;90:545-8.
- [427] Chan C-C, Wetzig RP, Palestine AG, et al. Immunohistopathology of ocular sarcoidosis; report of a case and discussion of immunopathogenesis. *Arch Ophthalmol* 1987;105:1398-402.
- [428] Karma A, Taskinen E, Kainulainen H, et al. Phenotypes of conjunctival inflammatory cells in sarcoidosis. *Br J Ophthalmol* 1992;76:101-6.
- [429] Brod RD. Presumed sarcoid choroidopathy mimicking birdshot retinochoroidopathy. *Am J Ophthalmol* 1990;109:357-8.
- [430] Pellegrini V, Ohno S, Hirose S, et al. Subretinal neovascularisation and snow banking in a case of sarcoidosis: case report. *Br J Ophthalmol* 1986;70:474-7.
- [431] Fiore PM, Friedman AH. Unusual chorioretinal degeneration associated with sarcoidosis. *Am J Ophthalmol* 1988;106:490-1.
- [432] Obenaus CD, Shaw HE, Sydnor CF, et al. Sarcoidosis and its ophthalmic manifestations. *Am J Ophthalmol* 1978;86:648-55.
- [433] Sanders MD, Shilling JS. Retinal, choroidal, and optic disc involvement in sarcoidosis. *Trans Ophthalmol Soc UK* 1976;96:140-4.
- [434] Tang RA, Grotta JC, Lee KF, et al. Chiasmal syndrome in sarcoidosis. *Arch Ophthalmol* 1983;101:1069-73.
- [435] Karcioğlu ZA, Brear R. Conjunctival biopsy in sarcoidosis. *Am J Ophthalmol* 1985;99:68-73.
- [436] Spaide RF, Ward DL. Conjunctival biopsy in the diagnosis of sarcoidosis. *Br J Ophthalmol* 1990;74:469-71.
- [437] Weinreb RN. Diagnosing sarcoidosis by transconjunctival biopsy of the lacrimal gland. *Am J Ophthalmol* 1984;97:573-6.
- [438] Nessian VJ, Jacoway JR. Biopsy of minor salivary glands in the diagnosis of sarcoidosis. *N Engl J Med* 1979;301:922-4.
- [439] Baarsma GS, La Hey E, Glasius E, et al. The predictive value of serum angiotensin converting enzyme and lysozyme levels in the diagnosis of ocular sarcoidosis. *Am J Ophthalmol* 1987;104:211-7.
- [440] Weinreb RN, Kimura SJ. Uveitis associated with sarcoidosis

- and angiotensin converting enzyme. *Am J Ophthalmol* 1980;89:180-5.
- [441] Bielory L, Frohman LP. Low-dose cyclosporine therapy of granulomatous optic neuropathy and orbitopathy. *Ophthalmology* 1991;98:1732-6.
- [442] Bhat P, Cervantes-Castaneda RA, Doctor PP, et al. Mycophenolate mofetil therapy for sarcoidosis-associated uveitis. *Ocul Immunol Inflamm* 2009;17:185-90.
- [443] Miyazaki E, Ando M, Fukami T, et al. Minocycline for the treatment of sarcoidosis: is the mechanism of action immunomodulating or antimicrobial effect? *Clin Rheumatol* 2008;27:1195-7.
- [444] Carroll DM, Franklin RM. Leber's idiopathic stellate retinopathy. *Am J Ophthalmol* 1982;93:96-101.
- [445] Cohen SM, Davis JL, Gass JDM. Branch retinal arterial occlusions in multifocal retinitis with optic nerve edema. *Arch Ophthalmol* 1995;113:1271-6.
- [446] Foster RE, Gutman FA, Meyers SM, et al. Acute multifocal inner retinitis. *Am J Ophthalmol* 1991;111:673-81.
- [447] Gass JDM. Fluorescein angiography in endogenous intraocular inflammation. In: Aronson SB, Gamble CN, Goodner EK, editors. *Clinical methods in uveitis: the Fourth Sloan Symposium on Uveitis*. St. Louis: CV Mosby; 1968. p. 214-5.
- [448] Goldstein BG, Pavan PR. Retinal infiltrates in six patients with an associated viral syndrome. *Retina* 1985;5:144-50.
- [449] Maitland CG, Miller NR. Neuroretinitis. *Arch Ophthalmol* 1984;102:1146-50.
- [450] Bar S, Segal M, Shapira R, Savir H. Neuroretinitis associated with cat scratch disease. *Am J Ophthalmol* 1990;110:703-5.
- [451] Carithers HA, Margileth AM. Cat-scratch disease; acute encephalopathy and other neurologic manifestations. *Am J Dis Child* 1991;145:98-101.
- [452] Chrousos GA, Drack AV, Young M, et al. Neuroretinitis in cat scratch disease. *J Clin Neuro-Ophthalmol* 1990;10:92-4.
- [453] Dalton MJ, Robinson LE, Cooper J, et al. Use of *Bartonella* antigens for serologic diagnosis of cat-scratch disease at a national referral center. *Arch Intern Med* 1995;155:1670-6.
- [454] Fish RH, Hogan RN, Nightingale SD, et al. Peripapillary angiomas associated with cat-scratch neuroretinitis. *Arch Ophthalmol* 1992;110:323.
- [455] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. [p. 376.]
- [456] Golnik KC, Marotto ME, Fanous MM, et al. Ophthalmic manifestations of Rochalimaea species. *Am J Ophthalmol* 1994;118:145-51.
- [457] Grossniklaus HE. The cat scratch disease-bacillary angiomas puzzle. *Am J Ophthalmol* 1994;118:246-8.
- [458] LeBoit PE, Berger TG, Egbert BM, et al. Epithelioid haemangioma-like vascular proliferation in AIDS: Manifestation of cat scratch disease or bacillus infection? *Lancet* 1988;1:960-3.
- [459] Schlossberg D, Morad Y, Krouse TB, et al. Culture-proved disseminated cat-scratch disease in acquired immunodeficiency syndrome. *Arch Intern Med* 1989;149:1437-9.
- [460] Ulrich GG, Waecker Jr NJ, Meister SJ, et al. Cat scratch disease associated with neuroretinitis in a 6-year-old girl. *Ophthalmology* 1992;99:246-9.
- [461] Wear DJ, Margileth AM, Hadfield TL, et al. Cat scratch disease: a bacterial infection. *Science* 1983;221:1403-5.
- [462] Dreyer RF, Hopen G, Gass JDM, et al. Leber's idiopathic stellate neuroretinitis. *Arch Ophthalmol* 1984;102:1140-5.
- [463] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 3rd ed. St. Louis: CV Mosby; 1987. p. 746-51.
- [464] Atmaca LS. Fundus changes associated with Behçet's disease. *Graefes Arch Clin Exp Ophthalmol* 1989;27:340-4.
- [465] Barra C, Belfort Jr R, Abreu MT, et al. Behçet's disease in Brazil - a review of 49 cases with emphasis on ophthalmic manifestations. *Jpn J Ophthalmol* 1991;35:339-46.
- [466] BenEzra D, Cohen E. Treatment and visual prognosis in Behçets disease. *Br J Ophthalmol* 1986;70:589-92.
- [467] Colvard DM, Robertson DM, O'Duffy JD. The ocular manifestations of Behçet's disease. *Arch Ophthalmol* 1977;95:1813-7.
- [468] D'Alessandro LP, Forster DJ, Rao NA. Anterior uveitis and hypopyon. *Am J Ophthalmol* 1991;112:317-21.
- [469] Graham EM, Stanford MR, Sanders MD, et al. A point prevalence study of 150 patients with idiopathic retinal vasculitis: 1. Diagnostic value of ophthalmological features. *Br J Ophthalmol* 1989;73:714-21.
- [470] International Study Group for Behçet's disease: criteria for diagnosis of Behçet's disease. *Lancet*. 1990;335:1078-80.
- [471] James DG. Editorial: Behçet's syndrome. *N Engl J Med* 1979;301:431-2.
- [472] James DG. 'Silk route disease' (Behçet's disease). *West J Med* 1988;148:433-7.
- [473] James DG, Spiteri MA. Behçet's disease. *Ophthalmology* 1982;89:1279-84.
- [474] Levinsky RJ, Lehner T. Circulating soluble immune complexes in recurrent oral ulceration and Behçet's syndrome. *Clin Exp Immunol* 1978;32:193-8.
- [475] Mamo JG. Treatment of Behçet disease with chlorambucil; a follow-up report. *Arch Ophthalmol* 1976;94:580-3.
- [476] Mamo JG, Baghdassarian A. Behçet's disease; a report of 28 cases. *Arch Ophthalmol* 1964;71:4-14.
- [477] Mishima S, Masuda K, Izawa Y, et al. Behçet's disease in Japan: ophthalmologic aspects. *Trans Am Ophthalmol Soc* 1979;77:225-79.
- [478] O'Duffy JD, Carney JA, Deodhar S. Behçet's disease; report of 10 cases, 3 with new manifestations. *Ann Intern Med* 1971;75:561-70.
- [479] Shimizu K. Fluorescein fundus angiography in Behçet's syndrome. *Mod Probl Ophthalmol* 1972;10:224-8.
- [480] Shimizu T. Clinical and immunological studies on Behçet's syndrome. *Folia Ophthalmol Jpn* 1971;22:801-10.
- [481] Shimizu T. Clinicopathological studies on Behçet's disease 29-30 September 1977, 1979, p. 9-43. In: Dil|Acen N, Koniçe M, Övül C, editors. *Behçet's disease: proceedings of an International Symposium on Behçet's Disease, Istanbul, 29-30 September 1977*. Amsterdam: Excerpta Medica; 1979. p. 9-43.
- [482] Smulders FM, Oosterhuis JA. Treatment of Behçet's disease with chlorambucil. *Ophthalmologica* 1975;171:347-52.
- [483] Michelson JB, Michelson PE, Chisari FV. Subretinal neovascular membrane and disciform scar in Behçet's disease. *Am J Ophthalmol* 1980;90:182-5.
- [484] Kansu T, Kirkali P, Kansu E, et al. Optic neuropathy in Behçet's disease. *J Clin Neuro-Ophthalmol* 1989;9:277-80.
- [485] Adinolfi M, Lehner T. Acute phase proteins and C9 in patients with Behçet's syndrome and aphthous ulcers. *Clin Exp Immunol* 1976;25:36-9.
- [486] Gupta RC, O'Duffy JD, McDuffie FC, et al. Circulating immune complexes in active Behçet's disease. *Clin Exp Immunol* 1978;34:213-8.
- [487] BenEzra D, Maftzir G, Kalichman I, et al. Serum levels of interleukin-2 receptor in ocular Behçet's disease. *Am J Ophthalmol* 1993;115:26-30.
- [488] Lehner T. Behçet's syndrome and autoimmunity. *Br Med J* 1967;1:465-7.
- [489] Aydıntug AO, Tokgöz G, D'Cruz DP, et al. Antibodies to endothelial cells in patients with Behçet's disease. *Clin Immunol*

- Immunopathol 1993;67:157-62.
- [490] Michelson JB, Chisari FV, Kansu T. Antibodies to oral mucosa in patients with ocular Behçet's disease. *Ophthalmology* 1985;92:1277-81.
- [491] Sezer FN. The isolation of a virus as the cause of Behçet's disease. *Am J Ophthalmol* 1953;36:301-15.
- [492] Mizuki N, Inoko H, Ando H, et al. Behçet's disease associated with one of the HLA-B51 subantigens, HLA-B\* 5101. *Am J Ophthalmol* 1993;116:406-9.
- [493] Ohno S, Ohguchi M, Hirose S, et al. Close association of HLA-Bw51 with Behçet's disease. *Arch Ophthalmol* 1982;100:1455-8.
- [494] Hijikata K, Masuda K. Visual prognosis in Behçet's disease: Effects of cyclophosphamide and colchicine. *Jpn J Ophthalmol* 1978;22:506.
- [495] Nussenblatt RB, Palestine AG, Chan C-C. Cyclosporin A therapy in the treatment of intraocular inflammatory disease resistant to systemic corticosteroids and cytotoxic agents. *Am J Ophthalmol* 1983;96:275-82.
- [496] Tessler HH, Jennings T. High-dose short-term chlorambucil for intractable sympathetic ophthalmia and Behçet's disease. *Br J Ophthalmol* 1990;74:353-7.
- [497] Whitcup SM, Salvo Jr EC, Nussenblatt RB. Combined cyclosporine and corticosteroid therapy for sight-threatening uveitis in Behçet's disease. *Am J Ophthalmol* 1994;118:39-45.
- [498] Chavis PS, Antonios SR, Tabbara KF. Cyclosporin effects on optic nerve and retinal vasculitis in Behçet's disease. *Doc Ophthalmol* 1992;80:133-42.
- [499] Müftüoğlu AÜ, Pazarlı H, Yurdakul S, et al. Short term cyclosporin A treatment of Behçet's disease. *Br J Ophthalmol* 1987;71:387-90.
- [500] Tabbara KF. Chlorambucil in Behçet's disease; a reappraisal. *Ophthalmology* 1983;90:906-8.
- [501] Raizman MB, Foster CS. Plasma exchange in the therapy of Behçet's disease. *Graefes Arch Clin Exp Ophthalmol* 1989;227:360-3.
- [502] Yazici H, Pazarlı H, Barnes CG, et al. A controlled trial of azathioprine in Behçet's syndrome. *N Engl J Med* 1990;322:281-5.
- [503] Monastirli A, Chroni E, Georgiou S, et al. Interferon-alpha treatment for acute myelitis and intestinal involvement in severe Behçet's disease. *QJM* 2010;103:787-90.
- [504] Deuter CM, Zierhut M, Mohle A, et al. Long-term remission after cessation of interferon-alpha treatment in patients with severe uveitis due to Behçet's disease. *Arthritis Rheum* 2010;62:2796-805.
- [505] Cantarini L, Tinazzi I, Caramaschi P, et al. Safety and efficacy of etanercept in children with juvenile-onset Behçet's disease. *Int J Immunopathol Pharmacol* 2009;22:551-5.
- [506] Yamada Y, Sugita S, Tanaka H, et al. Timing of recurrent uveitis in patients with Behçet's disease receiving infliximab treatment. *Br J Ophthalmol* 2011;95:205-8.
- [507] Atzeni F, Leccese P, D'Angelo S, et al. Successful treatment of leg ulcers in Behçet's disease using adalimumab plus methotrexate after the failure of infliximab. *Clin Exp Rheumatol* 2010;28(Suppl 60):S94.
- [508] Adan A, Hernandez V, Ortiz S, et al. Effects of infliximab in the treatment of refractory posterior uveitis of Behçet's disease after withdrawal of infusions. *Int Ophthalmol* 2010;30:577-81.
- [509] Jalili A, Kinaciyan T, Barisani T, et al. Successful treatment of refractory Behçet's disease with the TNF-alpha blocker infliximab. *Iran J Immunol* 2009;6:55-8.
- [510] Giardina A, Ferrante A, Ciccia F, et al. One year study of efficacy and safety of infliximab in the treatment of patients with ocular and neurological Behçet's disease refractory to standard immunosuppressive drugs. *Rheumatol Int* 2011;31:33-7.
- [511] Kappen JH, Mensink PB, Lesterhuis W, et al. Mycophenolate sodium: effective treatment for therapy-refractory intestinal Behçet's disease, evaluated with enteroscopy. *Am J Gastroenterol* 2008;103:3213-4.
- [512] Welch RB, Maumenee AE, Wahlen HE. Peripheral posterior segment inflammation, vitreous opacities, and edema of the posterior pole; pars planitis. *Arch Ophthalmol* 1960;64:540-9.
- [513] Brockhurst RJ, Schepens CL, Okamura ID. Uveitis. III. Peripheral uveitis: pathogenesis, etiology and treatment. *Am J Ophthalmol* 1961;51:19-26.
- [514] Kimura SJ, Hogan MJ. Chronic cyclitis. *Trans Am Ophthalmol Soc* 1963;61:397-417.
- [515] Aaberg TM, Cesarz TJ, Flickinger RR. Treatment of peripheral uveoretinitis by cryotherapy. *Am J Ophthalmol* 1973;75:685-8.
- [516] Augsburg JJ, Annesley Jr WH, Sergott RC, et al. Familial pars planitis. *Ann Ophthalmol* 1981;13:553-7.
- [517] Bec P, Arne JL, Philippot V, et al. L'uvéïe-rétinite basale (uvéïe périphérique, cyclite postérieure chronique, pars planite, vitrite, hyalo-rétinite) et les autres inflammations de la périphérie rétinienne. *Arch Ophthalmol (Paris)* 1977;37:169-96.
- [518] Brockhurst RJ. Retinoschisis; complication of peripheral uveitis. *Arch Ophthalmol* 1981;99:1998-9.
- [519] Brockhurst RJ, Schepens CL. Uveitis. IV. Peripheral uveitis: the complication of retinal detachment. *Arch Ophthalmol* 1968;80:747-53.
- [520] Brockhurst RJ, Schepens CL, Okamura ID. Uveitis. II. Peripheral uveitis: clinical description, complications and differential diagnosis. *Am J Ophthalmol* 1960;49:1257-66.
- [521] Cantrill HL, Ramsay RC, Knobloch WH, et al. Electrophysiologic changes in chronic pars planitis. *Am J Ophthalmol* 1981;91:505-12.
- [522] Culbertson WW, Giles CL, West C, et al. Familial pars planitis. *Retina* 1983;3:179-81.
- [523] Doft BH. Pars planitis in identical twins. *Retina* 1983;3:32-3.
- [524] Felder KS, Brockhurst RJ. Neovascular fundus abnormalities in peripheral uveitis. *Arch Ophthalmol* 1982;100:750-4.
- [525] Gärtner J. The fine structure of the vitreous base of the human eye and pathogenesis of pars planitis. *Am J Ophthalmol* 1971;71:1317-27.
- [526] Giles CL. Peripheral uveitis in patients with multiple sclerosis. *Am J Ophthalmol* 1970;70:17-19.
- [527] Giles CL, Tanton JH. Peripheral uveitis in three children of one family. *J Pediatr Ophthalmol Strabismus* 1980;17:297-9.
- [528] Gills Jr JP. Combined medical and surgical therapy for complicated cases of peripheral uveitis. *Arch Ophthalmol* 1968;79:723-8.
- [529] Godfrey WA, Epstein WV, O'Connor GR, et al. The use of chlorambucil in intractable idiopathic uveitis. *Am J Ophthalmol* 1974;78:415-28.
- [530] Green WR. Discussion of Godfrey WA, Smith RE, Kimura SJ: Chronic cyclitis: corticosteroid therapy. *Trans Am Ophthalmol Soc* 1976;74:187-8.
- [531] Kenyon KR, Pederson JE, Green WR, et al. Fibroglial proliferation in pars planitis. *Trans Ophthalmol Soc UK* 1975;95:391-7.
- [532] Maumenee AE. Clinical entities in "uveitis": an approach to the study of intraocular inflammation. *Am J Ophthalmol* 1970;69:1-27.
- [533] Nissenblatt MJ, Masciulli L, Yarian DL, et al. Pars planitis - a demyelinating disease? *Arch Ophthalmol* 1981;99:697.
- [534] Pederson JE, Kenyon KR, Green WR, et al. Pathology of pars planitis. *Am J Ophthalmol* 1978;86:762-74.
- [535] Pruett RC, Brockhurst RJ, Letts NF. Fluorescein angiography of



- peripheral uveitis. *Am J Ophthalmol* 1974;77:448–53.
- [536] Shorb SR, Irvine AR, Kimura SJ, et al. Optic disk neovascularization associated with chronic uveitis. *Am J Ophthalmol* 1976;82:175–8.
- [537] Smith RE, Godfrey WA, Kimura SJ. Chronic cyclitis. I. Course and visual prognosis. *Trans Am Acad Ophthalmol Otolaryngol* 1973;77:OP760–OP768.
- [538] Arkfeld DF, Brockhurst RJ. Peripapillary subretinal neovascularization in peripheral uveitis. *Retina* 1985;5:157–60.
- [539] Kalina PH, Pach JM, Buettner H, et al. Neovascularization of the disc in pars planitis. *Retina* 1990;10:269–73.
- [540] Henderly DE, Haymond RS, Rao NA, et al. The significance of the pars plana exudate in pars planitis. *Am J Ophthalmol* 1987;103:669–71.
- [541] Hikichi T, Trempe CL. Role of the vitreous in the prognosis of peripheral uveitis. *Am J Ophthalmol* 1993;116:401–5.
- [542] Wetzig RP, Chan C-C, Nussenblatt RB, et al. Clinical and immunopathological studies of pars planitis in a family. *Br J Ophthalmol* 1988;72:5–10.
- [543] Khodadoust AA, Karnama Y, Stoessel KM, et al. Pars planitis and autoimmune endotheliopathy. *Am J Ophthalmol* 1986;102:633–9.
- [544] Devenyi RG, Mieler WF, Lambrou FH, et al. Cryopexy of the vitreous base in the management of peripheral uveitis. *Am J Ophthalmol* 1988;106:135–8.
- [545] Josephberg RG, Kanter ED, Jaffee RM. A fluorescein angiographic study of patients with pars planitis and peripheral exudation (snowbanking) before and after cryopexy. *Ophthalmology* 1994;101:1262–6.
- [546] Mieler WF, Will BR, Lewis H, et al. Vitrectomy in the management of peripheral uveitis. *Ophthalmology* 1988;95:859–64.
- [547] Nussenblatt RB, Palestine AG. Cyclosporin (Sandimmun(Rx)) therapy: experience in the treatment of pars planitis and present therapeutic guidelines. *Dev Ophthalmol* 1992;23:177–84.
- [548] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 306.
- [549] Breger BC, Leopold IH. The incidence of uveitis in multiple sclerosis. *Am J Ophthalmol* 1966;62:540–5.
- [550] Calder V, Owen S, Watson C, et al. MS: a localized immune disease of the central nervous system. *Immunol Today* 1989;10:99–103.
- [551] Malinowski SM, Pulido JS, Folk JC. Long-term visual outcome and complications associated with pars planitis. *Ophthalmology* 1993;100:818–25.
- [552] Malinowski SM, Pulido JS, Goeken NE, et al. The association of HLA-B8, B51, DR2, and multiple sclerosis in pars planitis. *Ophthalmology* 1993;100:1199–205.
- [553] Porter R. Uveitis in association with multiple sclerosis. *Br J Ophthalmol* 1972;56:478–81.
- [554] Brinton GS, Osher RH, Gass JDM. Idiopathic vitritis. *Retina* 1983;3:95–8.
- [555] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 3rd ed. St. Louis: CV Mosby; 1987. p. 526–27.
- [556] Bennett SR, Folk JC, Kimura AE, et al. Autosomal dominant neovascular inflammatory vitreoretinopathy. *Ophthalmology* 1990;97:1125–36.
- [557] Johns KJ, Hummell DS, McCurley TL, et al. Cellular infiltration of the vitreous in a patient with X-linked immunodeficiency with increased IgM. *Am J Ophthalmol* 1992;113:183–6.
- [558] Brucker AJ, Deglin EA, Bene C, et al. Subretinal choroidal neovascularization in birdshot retinochoroidopathy. *Am J Ophthalmol* 1985;99:4–4.
- [559] Fuerst DJ, Tessler HH, Fishman GA, et al. Birdshot retinochoroidopathy. *Arch Ophthalmol* 1984;102:214–9.
- [560] Gass JDM. Vitiliginous chorioretinitis. *Arch Ophthalmol* 1981;99:1778–87.
- [561] Godel V, Baruch E, Lazar M. Late development of chorioretinal lesions in birdshot retinochoroidopathy. *Ann Ophthalmol* 1989;21:49–52.
- [562] Heaton JM, Mills RP. Sensorineural hearing loss associated with birdshot retinochoroidopathy. *Arch Otolaryngol Head Neck Surg* 1993;119:680–1.
- [563] Kaplan HJ, Aaberg TM. Birdshot retinochoroidopathy. *Am J Ophthalmol* 1980;90:773–82.
- [564] LeHoang P, Ozdemir N, Benhamou A, et al. HLA-A29.2 subtype associated with birdshot retinochoroidopathy. *Am J Ophthalmol* 1992;113:33–5.
- [565] Oosterhuis JA, Baarsma GS, Polak BCP. Birdshot chorioretinopathy – vitiliginous chorioretinitis. *Int Ophthalmol* 1982;5:137–44.
- [566] Rosenberg PR, Noble KG, Walsh JB, et al. Birdshot retinochoroidopathy. *Ophthalmology* 1984;91:304–6.
- [567] Soubrane G, Bokobza R, Coscas G. Late developing lesions in birdshot retinochoroidopathy. *Am J Ophthalmol* 1990;109:204–10.
- [568] Soubrane G, Coscas G, Binaghi M, et al. Birdshot retinochoroidopathy and subretinal new vessels. *Br J Ophthalmol* 1983;67:461–7.
- [569] Ryan SJ, Maumenee AE. Birdshot retinochoroidopathy. *Am J Ophthalmol* 1980;89:31–45.
- [570] Suttorp-Schulten MSA, Luyendijk L, van Dam AP, et al. Birdshot chorioretinopathy and Lyme borreliosis. *Am J Ophthalmol* 1993;115:149–53.
- [571] Hirose T, Katsumi O, Pruett RC, et al. Retinal function in birdshot retinochoroidopathy. *Acta Ophthalmol* 1991;69:327–37.
- [572] Priem HA, De Rouck A, De Laey J-J, et al. Electrophysiological studies in birdshot chorioretinopathy. *Am J Ophthalmol* 1988;106:430–6.
- [573] Witkin AJ, Duker JS, Ko TH, et al. Ultrahigh resolution optical coherence tomography of birdshot retinochoroidopathy. *Br J Ophthalmol* 2005;89:1660–1.
- [574] Gaudio PA, Kaye DB, Crawford JB. Histopathology of birdshot retinochoroidopathy. *Br J Ophthalmol* 2002;86:1439–41.
- [575] Shah A, Branley M. Use of intravitreal triamcinolone in the management of birdshot retinochoroidopathy associated with cystoid macular oedema: a case study over a three-year period. *Clin Experiment Ophthalmol* 2005;33:442–4.
- [576] Cummings KI, Cottel WI. Idiopathic guttate hypomelanosis. *Arch Dermatol* 1966;93:184–6.
- [577] Albert DM, Sober AJ, Fitzpatrick TB. Iritis in patients with cutaneous melanoma and vitiligo. *Arch Ophthalmol* 1978;96:2081–4.
- [578] Albert DM, Wagoner MD, Pruett RC, et al. Vitiligo and disorders of the retinal pigment epithelium. *Br J Ophthalmol* 1983;67:153–6.
- [579] Wagoner MD, Albert DM, Lerner AB, et al. New observations on vitiligo and ocular disease. *Am J Ophthalmol* 1983;96:16–26.
- [580] Gass JDM, editor. *Acute Vogt-Koyanagi-Harada-like syndrome occurring in a patient with metastatic cutaneous melanoma. Uveitis update: “proceedings of the First International Symposium on Uveitis” held in May 16–19. Hanasaari & Espoo, Finland, Amsterdam: Excerpta Medica; 1984. p. 407–8.*
- [581] Vitale AT, Rodriguez A, Foster CS. Low-dose cyclosporine therapy in the treatment of birdshot retinochoroidopathy. *Ophthalmology* 1994;101:822–31.
- [582] Sobrin L, Huang JJ, Christen W, et al. Daclizumab for treatment of birdshot chorioretinopathy. *Arch Ophthalmol* 2008;126:186–91.

- [583] Nussenblatt RB, Mittal KK, Ryan S, et al. Birdshot retinochoroidopathy associated with HLA-A29 antigen and immune responsiveness to retinal S-antigen. *Am J Ophthalmol* 1982;94:147–58.
- [584] Priem HA, Kijlstra A, Noens L, et al. HLA typing in birdshot chorioretinopathy. *Am J Ophthalmol* 1988;105:182–5.
- [585] Priem HA, Oosterhuis JA. Birdshot chorioretinopathy: clinical characteristics and evolution. *Br J Ophthalmol* 1988;72:646–59.
- [586] McCannel CA, Pulido JS. Diffuse placoid choroidopathy in a patient with common variable immunodeficiency. *Int Arch Allergy Immunol* 2008;147:84–6.
- [587] Fich M, Rosenberg T. Birdshot retinochoroidopathy in monozygotic twins. *Acta Ophthalmol* 1992;70:693–7.
- [588] Blau EB. Familial granulomatous arthritis, iritis, and rash. *J Pediatr* 1985;107:689–93.
- [589] Schaffer JV, Chandra P, Keegan BR, et al. Widespread granulomatous dermatitis of infancy: an early sign of Blau syndrome. *Arch Dermatol* 2007;143:386–91.
- [590] Masel G, Halbert A. Blau syndrome presenting with ichthyosis. *Australas J Dermatol* 2005;46:29–32.
- [591] Jabs DA, Houk JL, Bias WB, et al. Familial granulomatous synovitis, uveitis, and cranial neuropathies. *Am J Med* 1985;78:801–4.
- [592] Manouvrier-Hanu S, Puech B, Piette F, et al. Blau syndrome of granulomatous arthritis, iritis, and skin rash: a new family and review of the literature. *Am J Med Genet* 1998;76:217–21.
- [593] Kurokawa T, Kikuchi T, Ohta K, et al. Ocular manifestations in Blau syndrome associated with a *CARD15/NOD2* mutation. *Ophthalmology* 2003;110:2040–4.
- [594] Okafuji I, Nishikomori R, Kanazawa N, et al. Role of the *NOD2* genotype in the clinical phenotype of Blau syndrome and early-onset sarcoidosis. *Arthritis Rheum* 2009;60:242–50.
- [595] Arostegui JI, Arnal C, Merino R, et al. *NOD2* gene-associated pediatric granulomatous arthritis: clinical diversity, novel and recurrent mutations, and evidence of clinical improvement with interleukin-1 blockade in a Spanish cohort. *Arthritis Rheum* 2007;56:3805–13.
- [596] Rose CD, Doyle TM, McIlvain-Simpson G, et al. Blau syndrome mutation of *CARD15/NOD2* in sporadic early onset granulomatous arthritis. *J Rheumatol* 2005;32:373–5.
- [597] Borzutzky A, Fried A, Chou J, et al. *NOD2*-associated diseases: Bridging innate immunity and autoinflammation. *Clin Immunol* 2010;134:251–61.
- [598] Dobrin RS, Vernier RL, Fish AL. Acute eosinophilic interstitial nephritis and renal failure with bone marrow-lymph node granulomas and anterior uveitis. A new syndrome. *Am J Med* 1975;59:325–33.
- [599] Mandeville JT, Levinson RD, Holland GN. The tubulointerstitial nephritis and uveitis syndrome. *Surv Ophthalmol* 2001;46:195–208.
- [600] Daniel E, Gangaputra S, Kempen JH, et al. Recurrent nodular scleritis preceding an adult TINU syndrome. *Ocul Immunol Inflamm* 2006;14:239–40.
- [601] Howarth L, Gilbert RD, Bass P, et al. Tubulointerstitial nephritis and uveitis in monozygotic twin boys. *Pediatr Nephrol* 2004;19:917–9.
- [602] Dusek J, Urbanova I, Stejskal J, et al. Tubulointerstitial nephritis and uveitis syndrome in a mother and her son. *Pediatr Nephrol* 2008;23:2091–3.
- [603] Koike K, Lida S, Usui M, et al. Adult-onset acute tubulointerstitial nephritis and uveitis with Fanconi syndrome. Case report and review of the literature. *Clin Nephrol* 2007;67:255–9.
- [604] Ebihara I, Hirayama K, Usui J, et al. Tubulointerstitial nephritis and uveitis syndrome associated with hyperthyroidism. *Clin Exp Nephrol* 2006;10:216–21.
- [605] Wakaki H, Sakamoto H, Awazu M. Tubulointerstitial nephritis and uveitis syndrome with autoantibody directed to renal tubular cells. *Pediatrics* 2001;107:1443–6.
- [606] Tanaka H, Waga S, Nakahata T, et al. Tubulointerstitial nephritis and uveitis syndrome in two siblings. *Tohoku J Exp Med* 2001;194:71–4.
- [607] Goda C, Kotake S, Ichiishi A, et al. Clinical features in tubulointerstitial nephritis and uveitis (TINU) syndrome. *Am J Ophthalmol* 2005;140:637–41.
- [608] Mackensen F, Smith JR, Rosenbaum JT. Enhanced recognition, treatment, and prognosis of tubulointerstitial nephritis and uveitis syndrome. *Ophthalmology* 2007;114:995–9.
- [609] Chow KM, Lai FM, Szeto CC, et al. Quiz page March 2008: fever, anorexia, and renal failure. TINU syndrome. *Am J Kidney Dis* 2008;51:A39–40.
- [610] Hopkins DJ, Horan E, Burton IL, et al. Ocular disorders in a series of 332 patients with Crohn's disease. *Br J Ophthalmol* 1974;58:732–7.
- [611] Johnson LA, Wirotko E, Wirotko WJ. Crohn's disease uveitis; parasitization of vitreous leukocytes by mollicute-like organisms. *Am J Clin Pathol* 1989;91:259–64.
- [612] Knox DL, Schachat AP, Mustonen E. Primary, secondary and coincidental ocular complications of Crohn's disease. *Ophthalmology* 1984;91:163–73.
- [613] Macoull KL. Ocular changes in granulomatous ileocolitis. *Arch Ophthalmol* 1970;84:95–7.
- [614] Ruby AJ, Jampol LM. Crohn's disease and retinal vascular disease. *Am J Ophthalmol* 1990;110:349–53.
- [615] Salmon JF, Wright JP, Bowen RM, et al. Granulomatous uveitis in Crohn's disease; a clinicopathologic case report. *Arch Ophthalmol* 1989;107:718–9.
- [616] Salmon JF, Wright JP, Murray ADN. Ocular inflammation in Crohn's disease. *Ophthalmology* 1991;98:480–4.
- [617] Gass JDM. Stereoscopic atlas of macular disease; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 538.
- [618] Ernst BB, Lowder CY, Meisler DM, et al. Posterior segment manifestations of inflammatory bowel disease. *Ophthalmology* 1991;98:1272–80.
- [619] Duker JS, Brown GC, Brooks L. Retinal vasculitis in Crohn's disease. *Am J Ophthalmol* 1987;103:664–8.
- [620] Mallas EG, Mackintosh P, Asquith P, et al. Histocompatibility antigens in inflammatory bowel disease; their clinical significance and their association with arthropathy with special reference to HLA-B27 (W27). *Gut* 1976;17:906–10.
- [621] Strober W, Kitani A, Fuss I, et al. The molecular basis of *NOD2* susceptibility mutations in Crohn's disease. *Mucosal Immunol* 2008;1(Suppl. 1):S5–S9.
- [622] Henckaerts L, Vermeire S. *NOD2/CARD15* disease associations other than Crohn's disease. *Inflamm Bowel Dis* 2007;13:235–41.
- [623] Hampe J, Grebe J, Nikolaus S, et al. Association of *NOD2 (CARD 15)* genotype with clinical course of Crohn's disease: a cohort study. *Lancet* 2002;359:1661–5.
- [624] McGovern DP, van Heel DA, Ahmad T, et al. *NOD2 (CARD15)*, the first susceptibility gene for Crohn's disease. *Gut* 2001;49:752–4.
- [625] Taban M, Chand D, Sears JE. Ocular findings in IgA nephropathy with renal failure and hypertension. *J Pediatr Ophthalmol Strabismus* 2006;43:378–80.
- [626] Glasscock RJ. The pathogenesis of IgA nephropathy. *Curr Opin Nephrol Hypertens* 2011;20:153–60.
- [627] De Salvo G, Li Calzi C, Anastasi M, et al. Branch retinal vein occlusion followed by central retinal artery occlusion in Churg–Strauss syndrome: unusual ocular manifestations in allergic

- granulomatous angiitis. *Eur J Ophthalmol* 2009;19:314–7.
- [628] Turkcuoglu P, Isik A, Deniz N, et al. Central retinal artery occlusion in an ANCA negative Churg–Strauss syndrome patient. *Int Ophthalmol* 2007;27:369–71.
- [629] Margolis R, Kosmorsky GS, Lowder CY, et al. Conjunctival involvement in Churg–Strauss syndrome. *Ocul Immunol Inflamm* 2007;15:113–5.
- [630] Hamann S, Johansen S. Combined central retinal artery and vein occlusion in Churg–Strauss syndrome: case report. *Acta Ophthalmol Scand* 2006;84:703–6.
- [631] Chen SD, Lochhead J, Satchi K, et al. Bilateral retinal venous occlusion and unilateral cystoid macular edema in Churg–Strauss syndrome treated with intravitreal triamcinolone. *Retina* 2005;25:655–7.
- [632] Billing K, Malhotra R, Selva D, et al. Orbital myositis in Churg–Strauss syndrome. *Arch Ophthalmol* 2004;122:393–6.
- [633] Rosenblatt BJ, Foroozan R, Savino PJ. Asymptomatic optic neuropathy associated with Churg–Strauss syndrome. *Ophthalmology* 2003;110:1650–2.
- [634] Takanashi T, Uchida S, Arita M, et al. Orbital inflammatory pseudotumor and ischemic vasculitis in Churg–Strauss syndrome: report of two cases and review of the literature. *Ophthalmology* 2001;108:1129–33.
- [635] Bawazeer AM, Jackson WB. Marginal infiltrative ulcerative keratitis secondary to Churg–Strauss syndrome: a case report. *Cornea* 2000;19:402–4.
- [636] McNab AA. Orbital inflammation in Churg–Strauss syndrome. *Orbit* 1998;17:203–5.
- [637] Giorgi D, Lagana B, Giorgi A, et al. Ischemic optic neuritis in Churg–Strauss syndrome. *Recenti Prog Med* 1997;88:273–5.
- [638] Kattah JC, Chrousos GA, Katz PA, et al. Anterior ischemic optic neuropathy in Churg–Strauss syndrome. *Neurology* 1994;44:2200–2.
- [639] Acheson JF, Cockerell OC, Bentley CR, et al. Churg–Strauss vasculitis presenting with severe visual loss due to bilateral sequential optic neuropathy. *Br J Ophthalmol* 1993;77:118–9.
- [640] Shields CL, Shields JA, Rozanski TI. Conjunctival involvement in Churg–Strauss syndrome. *Am J Ophthalmol* 1986;102:601–5.
- [641] Hamilton AM, Bird AC. Geographical choroidopathy. *Br. J. Ophthalmol.* 1974;58:784–97.
- [642] Hardy RA, Schatz H. Macular geographic helicoid choroidopathy. *Arch. Ophthalmol.* 1987;105:1237–42.
- [643] Hooper PL, Kaplan HJ. Triple agent immunosuppression in serpiginous choroiditis. *Ophthalmology* 1991;98:944–52.
- [644] Martyn LJ, Lischner HW, et al. Chorioretinal lesions in familial chronic granulomatous disease of childhood. *Trans. Am. Ophthalmol. Soc.* 1971;69:84–112.
- [645] Martyn LJ, Lischner HW, et al. Chorioretinal lesions in familial chronic granulomatous disease of childhood. *Am. J. Ophthalmol.* 1972;73(3):403–18.
- [646] Grossniklaus HE, Frank KE, et al. Chorioretinal lesions in chronic granulomatous disease of childhood. *Clinicopathologic correlations.* *Retina* 1988;8(4):270–4.
- [647] Kim SJ, Kim JG, et al. Chorioretinal lesions in patients with chronic granulomatous disease. *Retina* 2003;23(3):360–5.
- [648] Geiszt M, Kapus A, et al. Chronic granulomatous disease: more than the lack of superoxide? *J. Leukoc. Biol.* 2001;69(2):191–6.
- [649] Huang A, Abbasakoor F, et al. Gastrointestinal manifestations of chronic granulomatous disease. *Colorectal Dis.* 2006;8(8):637–44.
- [650] Barton LL, Johnson CR. Discoid lupus erythematosus and X-linked chronic granulomatous disease. *Pediatr. Dermatol.* 1986;3(5):376–9.
- [651] Levine S, Smith VV, et al. Histopathological features of chronic granulomatous disease (CGD) in childhood. *Histopathology* 2005;47(5):508–16.
- [652] Kohn DB. Gene therapy for childhood immunological diseases. *Bone Marrow Transplant.* 2008;41(2):199–205.

## 第 12 章

- [1] Gass JDM. Focal congenital anomalies of the retinal pigment epithelium. *Eye* 1989;3:1–18.
- [2] Blair NP, Trempe CL. Hypertrophy of the retinal pigment epithelium associated with Gardner’s syndrome. *Am J Ophthalmol* 1980;90:661–7.
- [3] Boldrey EE, Schwartz A. Enlargement of congenital hypertrophy of the retinal pigment epithelium. *Am J Ophthalmol* 1982;94:64–6.
- [4] Buettner H. Congenital hypertrophy of the retinal pigment epithelium. *Am J Ophthalmol* 1975;79:177–89.
- [5] Chamot L, Zografos L, Klainguti G. Fundus changes associated with congenital hypertrophy of the retinal pigment epithelium. *Am J Ophthalmol* 1993;115:154–61.
- [6] Munden PM, Sobol WM, Weingeist TA. Ocular findings in Turcot syndrome (glioma-polyposis). *Ophthalmology* 1991;98:111–4.
- [7] Reese AB, Jones IS. Benign melanomas of the retinal pigment epithelium. *Am J Ophthalmol* 1956;42:207–12.
- [8] Sugar HS, Wolff L. Geographic dark posterior fundus patches. *Am J Ophthalmol* 1977;83:847–52.
- [9] Shields CL, Mashayekhi A, Ho T, et al. Solitary congenital hypertrophy of the retinal pigment epithelium: clinical features and frequency of enlargement in 330 patients. *Ophthalmology* 2003;110:1968–76.
- [10] Nishikatsu H, Shiono T. Congenital hypertrophy of the retinal pigment epithelium in the macula. *Ophthalmologica* 1996;210:126–8.
- [11] Augsburger JJ, Henson GL, Hershberger VS, et al. Topographical distribution of typical unifocal congenital hypertrophy of retinal pigment epithelium. *Graefes Arch Clin Exp Ophthalmol* 2006;244:1412–4.
- [12] Zucchiatti I, Battaglia Parodi M, Pala M, et al. Macular congenital hypertrophy of the retinal pigment epithelium: a case report. *Eur J Ophthalmol* 2010;20:621–4.
- [13] Champion R, Daicker BC. Congenital hypertrophy of the pigment epithelium: light microscopic and ultrastructural findings in young children. *Retina* 1989;9:44–8.
- [14] Norris JL, Cleasby GW. An unusual case of congenital hypertrophy of the retinal pigment epithelium. *Arch Ophthalmol* 1976;94:1910–1.
- [15] Shields JA, Shields CL, Singh AD. Acquired tumors arising from congenital hypertrophy of the retinal pigment epithelium. *Arch Ophthalmol* 2000;118:637–41.
- [16] Shields JA, Shields CL, Eagle Jr RC, et al. Adenocarcinoma arising from congenital hypertrophy of retinal pigment epithelium. *Arch Ophthalmol* 2001;119:597–602.

- [17] Trichopoulos N, Augsburger JJ, Schneider S. Adenocarcinoma arising from congenital hypertrophy of the retinal pigment epithelium. *Graefes Arch Clin Exp Ophthalmol* 2006;244:125-8.
- [18] Shields JA, Eagle Jr RC, Shields CL, et al. Malignant transformation of congenital hypertrophy of the retinal pigment epithelium. *Ophthalmology* 2009;116:2213-6.
- [19] Shields CL, Pirondini C, Bianciotto C, et al. Autofluorescence of congenital hypertrophy of the retinal pigment epithelium. *Retina* 2007;27:1097-100.
- [20] Cleary PE, Gregor Z, Bird AC. Retinal vascular changes in congenital hypertrophy of the retinal pigment epithelium. *Br J Ophthalmol* 1976;60:499-503.
- [21] Cohen SY, Quentel G, Guiberteau B, et al. Retinal vascular changes in congenital hypertrophy of the retinal pigment epithelium. *Ophthalmology* 1993;100:471-4.
- [22] Shields JA, Shields CL, Shah PG, et al. Lack of association among typical congenital hypertrophy of the retinal pigment epithelium, adenomatous polyposis, and Gardner syndrome. *Ophthalmology* 1992;99:1709-13.
- [23] Shields CL, Materin MA, Walker C, et al. Photoreceptor loss overlying congenital hypertrophy of the retinal pigment epithelium by optical coherence tomography. *Ophthalmology* 2006;113:661-5.
- [24] Kurz GH, Zimmerman LE. Vagaries of the retinal pigment epithelium. *Int Ophthalmol Clin* 1962;2:441-64.
- [25] Lloyd III WC, Eagle RCJR, Shields JA, et al. Congenital hypertrophy of the retinal pigment epithelium; electron microscopic and morphometric observations. *Ophthalmology* 1990;97:1052-60.
- [26] Parsons MA, Rennie IG, Rundle PA, et al. Congenital hypertrophy of retinal pigment epithelium: a clinico-pathological case report. *Br J Ophthalmol* 2005;89:920-1.
- [27] Wirz K, Lee WR, Coaker T. Progressive changes in congenital hypertrophy of the retinal pigment epithelium; an electron microscopic study. *Graefes Arch Clin Exp Ophthalmol* 1982;219:214-21.
- [28] Traboulsi EI, Maumenee IH, Krush AJ, et al. Pigmented ocular fundus lesions in the inherited gastrointestinal polyposis syndromes and in hereditary nonpolyposis colorectal cancer. *Ophthalmology* 1988;95:964-9.
- [29] Aiello LP, Traboulsi EI. Pigmented fundus lesions in a preterm infant with familial adenomatous polyposis. *Arch Ophthalmol* 1993;111:302-3.
- [30] Diaz-Llopis M, Menezo JL. Congenital hypertrophy of the retinal pigment epithelium in familial adenomatous polyposis. *Arch Ophthalmol* 1988;106:412-3.
- [31] Gardner EJ, Richards RC. Multiple cutaneous and subcutaneous lesions occurring simultaneously with hereditary polyposis and osteomatosis. *Am J Hum Genet* 1953;5:139-47.
- [32] Giardiello FM, Offerhaus GJ, Traboulsi EI, et al. Value of combined phenotypic markers in identifying inheritance of familial adenomatous polyposis. *Gut* 1991;32:1170-4.
- [33] Heinemann M-H, Baker RH, Miller HH, et al. Familial polyposis coli: the spectrum of ocular and other extracolonic manifestations. *Graefes Arch Clin Exp Ophthalmol* 1991;229:213-8.
- [34] Kasner L, Traboulsi EI, Delacruz Z, et al. A histopathologic study of the pigmented fundus lesions in familial adenomatous polyposis. *Retina* 1992;12:35-42.
- [35] Lewis RA, Crowder WE, Eierman LA, et al. The Gardner syndrome; significance of ocular features. *Ophthalmology* 1984;91:916-25.
- [36] Llopis MD, Menezo JL. Congenital hypertrophy of the retinal pigment epithelium and familial polyposis of the colon. *Am J Ophthalmol* 1987;103:235-6.
- [37] Romania A, Zakov ZN, Church JM, et al. Retinal pigment epithelium lesions as a biomarker of disease in patients with familial adenomatous polyposis; a follow-up report. *Ophthalmology* 1992;99:911-3.
- [38] Romania A, Zakov ZN, McGannon E, et al. Congenital hypertrophy of the retinal pigment epithelium in familial adenomatous polyposis. *Ophthalmology* 1989;96:879-84.
- [39] Santos A, Morales L, Hernandez-Quintela E, et al. Congenital hypertrophy of the retinal pigment epithelium associated with familial adenomatous polyposis. *Retina* 1994;14:6-9.
- [40] Schmidt D, Jung CE, Wolff G. Changes in the retinal pigment epithelium close to retinal vessels in familial adenomatous polyposis. *Graefes Arch Clin Exp Ophthalmol* 1994;232:96-102.
- [41] Stein EA, Brady KD. Ophthalmologic and electro-oculographic findings in Gardner's syndrome. *Am J Ophthalmol* 1988;106:326-31.
- [42] Traboulsi EI, Murphy SF, de la Cruz ZC, et al. A clinicopathologic study of the eyes in familial adenomatous polyposis with extracolonic manifestations (Gardner's syndrome). *Am J Ophthalmol* 1990;110:550-61.
- [43] Whitson WE, Orcutt JC, Walkinshaw MD. Orbital osteoma in Gardner's syndrome. *Am J Ophthalmol* 1986;101:236-41.
- [44] Gass JDM. Stereoscopic atlas of macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 606-11.
- [45] Traboulsi EI, Krush AJ, Gardner EJ, et al. Prevalence and importance of pigmented ocular fundus lesions in Gardner's syndrome. *N Engl J Med* 1987;316:661-7.
- [46] Nieuwenhuis MH, Vasen HF. Correlations between mutation site in APC and phenotype of familial adenomatous polyposis (FAP): a review of the literature. *Crit Rev Oncol Hematol* 2007;61:153-61.
- [47] Bodmer WF, Bailey CJ, Bodmer J, et al. Localization of the gene for familial adenomatous polyposis on chromosome 5. *Nature* 1987;328:614-6.
- [48] Parke JT, Riccardi VM, Lewis RA, et al. A syndrome of microcephaly and retinal pigmentary abnormalities without mental retardation in a family with coincidental autosomal dominant hyperreflexia. *Am J Med Genet* 1984;17:585-94.
- [49] Mauthner L. *Lehrbuch der Ophthalmoscopie*. Vienna: Tendler; 1868. p. 388.
- [50] Höeg N. Die gruppierte Pigmentation des Augengrundes. *Klin Monatsbl Augenheilkd* 1911;49:49-77.
- [51] Morse PH. Fluorescein angiography of grouped pigmentation of the retina. *Ann Ophthalmol* 1973;5:27-30.
- [52] Shields JA, Tso MOM. Congenital grouped pigmentation of the retina; histopathologic description and report of a case. *Arch Ophthalmol* 1975;93:1153-5.
- [53] Silvan Lopez F. Pigmentación agrupada retiniana. *Arch Soc Oftalmol Hisp-Am* 1948;8:448-56.
- [54] Blake EM. Congenital grouped pigmentation of the retina. *Trans Am Ophthalmol Soc* 1926;24:223-33.
- [55] Loewenstein A, Steel J. Special case of melanosis fundi: bilateral congenital group pigmentation of the central area. *Br J Ophthalmol* 1941;25:417-23.
- [56] McGregor IS. Macular coloboma with bilateral grouped pigmentation of the retina. *Br J Ophthalmol* 1945;29:132-6.
- [57] Schwarz GT. Case report of congenital grouped pigmentation of the retina with maculocerebral degeneration. *Am J Ophthalmol* 1943;26:72-4.
- [58] Welter SL. Naevus pigmentosus des Augenhintergrundes. *Klin Monatsbl Augenheilkd* 1927;78:682-7.
- [59] De Jong PTVM, Delleman JW. Familial grouped pigmentation of the retinal pigment epithelium. *Br J Ophthalmol* 1988;72:439.
- [60] Gasparová D, Szedélyová L. Familial occurrence of grouped pigmentation of the ocular fundus. *Cesk Oftalmol* 1980;36:406-8.



- [61] Renardel de Lavalette VW, Cruysberg JRM, Deutman AF. Familial congenital grouped pigmentation of the retina. *Am J Ophthalmol* 1991;112:406-9.
- [62] Kadoi C, Hayasaka S, Hayasaka Y, et al. Bilateral congenital grouped pigmentation of the retina in one girl and bilateral congenital albinotic spots of the retina in her sister. *Retina* 1999;19:571-2.
- [63] Siddiqui AM, Everman DB, Rogers RC, et al. Microcephaly and congenital grouped pigmentation of the retinal pigment epithelium associated with submicroscopic deletions of 13q33.3-q34 and 11p15.4. *Ophthalmic Genet* 2009;30:136-41.
- [64] Collier M. Les manifestations oculaires associées à la dyschondroplasie d'Ollier (à propos d'un cas comportant une pigmentation congénitale de la rétine). *Bull Soc Ophtalmol Fr* 1961;4:161-9.
- [65] Meyer CH, Freyschmidt-Paul P, Happle R, et al. Unilateral linear hyperpigmentation of the skin with ipsilateral sectorial hyperpigmentation of the retina. *Am J Med Genet A* 2004;126A:89-92.
- [66] Regillo CD, Eagle Jr RC, Shields JA, et al. Histopathologic findings in congenital grouped pigmentation of the retina. *Ophthalmology* 1993;100:400-5.
- [67] Regillo CD, Eagle Jr RC, Shields JA, et al. Histopathologic findings in congenital grouped pigmentation of the retina. *Ophthalmology* 1993;100:400-5.
- [68] Fuhrmann C, Bopp S, Laqua H. Congenital grouped albinotic spots: a rare anomaly of the retinal pigment epithelium. *Ger J Ophthalmol* 1992;1:103-4.
- [69] Kandori F. Very rare case of congenital nonprogressive night blindness with fleck retina. *Clin Ophthalmol* 1959;13:384-6.
- [70] Kandori F, Setogawa T, Tamai A. Electroretinographical studies on fleck retina with congenital nonprogressive night blindness. *Acta Soc Ophthalmol Jpn* 1966;70:1311-25.
- [71] Kandori F, Tamai A, Kurimoto S, et al. Fleck retina. *Am J Ophthalmol* 1972;73:673-85.
- [72] Gass JDM. Differential diagnosis of intraocular tumors; a stereoscopic presentation. St. Louis: CV Mosby; 1974. p. 221-46.
- [73] Kraupa E. Beiträge zur Morphologie des Augenhintergrundes III. *Klin Monatsbl Augenheilkd* 1921;67:15-26.
- [74] Roseman RL, Gass JDM. Solitary hypopigmented nevus of the retinal pigment epithelium in the macula. *Arch Ophthalmol* 1992;110:1358-9. [correction p. 762.]
- [75] Schlernitzauer DA, Green WR. Peripheral retinal albinotic spots. *Am J Ophthalmol* 1971;72:729-32.
- [76] Golchet PR, Jampol LM, Mathura Jr JR, et al. Torpedo maculopathy. *Br J Ophthalmol* 2010;94:302-6.
- [77] Shields CL, Shields JA, Marr BP, et al. Congenital simple hamartoma of the retinal pigment epithelium: a study of five cases. *Ophthalmology* 2003;110:1005-11.
- [78] Blodi FC, Reuling FH, Sornson ET. Pseudomelanocytoma at the optic nerve head; an adenoma of the retinal pigment epithelium. *Arch Ophthalmol* 1965;73:353-5.
- [79] Duke JR, Maumenee AE. An unusual tumor of the retinal pigment epithelium in an eye with early open-angle glaucoma. *Am J Ophthalmol* 1959;47:311-7.
- [80] Font RL, Zimmerman LE, Fine BS. Adenoma of the retinal pigment epithelium; histochemical and electron microscopic observations. *Am J Ophthalmol* 1972;73:544-54.
- [81] Garner A. Tumours of the retinal pigment epithelium. *Br J Ophthalmol* 1970;54:715-23.
- [82] Jampel HD, Schachat AP, Conway B, et al. Retinal pigment epithelial hyperplasia assuming tumor-like proportions; report of two cases. *Retina* 1986;6:105-12.
- [83] Tso MOM, Albert DM. Pathological condition of the retinal pigment epithelium; neoplasms and nodular non-neoplastic lesions. *Arch Ophthalmol* 1972;88:27-38.
- [84] Cardell BS, Starbuck MJ. Juxtapapillary hamartoma of retina. *Br J Ophthalmol* 1961;45:672-7.
- [85] Font RL, Moura RA, Shetlar DJ, et al. Combined hamartoma of sensory retina and retinal pigment epithelium. *Retina* 1989;9:302-11.
- [86] Friberg TR, Gullledge SL. Hamartomas of the retina and pigment epithelium. *Can J Ophthalmol* 1982;17:56-60.
- [87] Gass JDM. An unusual hamartoma of the pigment epithelium and retina simulating choroidal melanoma and retinoblastoma. *Trans Am Ophthalmol Soc* 1973;71:171-85.
- [88] Mele A, Cennamo G, Sorrentino V, et al. Fluoroangiographic and echographic study on a juxtapapillary hamartoma of the retinal pigment epithelium. *Ophthalmologica* 1984;189:180-5.
- [89] Reynolds WD, Goldstein BG. Retinal pigment epithelial hamartoma. *Ophthalmology* 1983;90:117-9.
- [90] Schachat AP, Glaser BM. Retinal hamartoma, acquired retinoschisis, and retinal hole. *Am J Ophthalmol* 1985;99:604-5.
- [91] Schachat AP, Shields JA, Fine SL, et al. Combined hamartomas of the retina and retinal pigment epithelium. *Ophthalmology* 1984;91:1609-14.
- [92] Theobald GD, Floyd G, Kirk HQ. Hyperplasia of the retinal pigment epithelium simulating a neoplasm: report of two cases. *Am J Ophthalmol* 1958;45:235-40.
- [93] Vogel MH, Wessing A. Die Proliferation des juxtapapillären retinalen Pigmentepithels. *Klin Monatsbl Augenheilkd* 1973;162:736-43.
- [94] Vogel MH, Zimmerman LE, Gass JDM. Proliferation of the juxtapapillary retinal pigment epithelium simulating malignant melanoma. *Doc Ophthalmol* 1969;26:461-81.
- [95] Corcostegui B, Mendez M, Corcostegui G, et al. Éléments diagnostiques des hamartomes de la rétine et de l'épithélium pigmentaire. *Bull Mem Soc Fr Ophtalmol* 1985;96:152.
- [96] Cosgrove JM, Sharp DM, Bird AC. Combined hamartoma of the retina and retinal pigment epithelium: the clinical spectrum. *Trans Ophthalmol Soc UK* 1986;105:106-13.
- [97] Flood TP, Orth DH, Aaberg TM, et al. Macular hamartomas of the retinal pigment epithelium and retina. *Retina* 1983;3:164-70.
- [98] Gass JDM. Combined hamartomas of the retinal and retinal pigment epithelium. *Ophthalmology* 1984;91:1615.
- [99] Jabbour O, Payeur G. Malformation congénitale de l'épithélium pigmentaire et de la rétine. *J Fr Ophtalmol* 1983;6:149-54.
- [100] Macherer R. Die Primäre retinale Pigmentepithelhyperplasie. *Albrecht von Graefes Arch Ophthalmol* 1964;167:284-95.
- [101] Kahn D, Goldberg MF, Jednock N. Combined retinal-retina pigment epithelial hamartoma presenting as a vitreous hemorrhage. *Retina* 1984;4:40-3.
- [102] Wang C-L, Brucker AJ. Vitreous hemorrhage secondary to juxtapapillary vascular hamartoma of the retina. *Retina* 1984;4:44-7.
- [103] Shields CL, Mashayekhi A, Dai VV, et al. Optical coherence tomographic findings of combined hamartoma of the retina and retinal pigment epithelium in 11 patients. *Arch Ophthalmol* 2005;123:1746-50.
- [104] McDonald HR, Abrams GW, Burke JM, et al. Clinicopathologic results of vitreous surgery for epiretinal membranes in patients with combined retinal and retinal pigment epithelial hamartomas. *Am J Ophthalmol* 1985;100:806-13.
- [105] Sappenfield DL, Gitter KA. Surgical intervention for combined retinal-retinal pigment epithelial hamartoma. *Retina* 1990;10:119-24.
- [106] Rosenberg PR, Walsh JB. Retinal pigment epithelial hamartoma - unusual manifestations. *Br J Ophthalmol* 1984;68:439-42.

- [107] Hrisomalos NF, Mansour AM, Jampol LM, et al. "Pseudo"-combined hamartoma following papilledema. *Arch Ophthalmol* 1987;105:1634-5.
- [108] Ticho BH, Egel RT, Jampol LM. Acquired combined hamartoma of the retina and pigment epithelium following parainfectious meningoencephalitis with optic neuritis. *J Pediatr Ophthalmol Strabismus* 1998;35:116-8.
- [109] Laqua H, Wessing A. Congenital retino-pigment epithelial malformation, previously described as hamartoma. *Am J Ophthalmol* 1979;87:34-42.
- [110] McLean EB. Hamartoma of the retinal pigment epithelium. *Am J Ophthalmol* 1976;82:227-31.
- [111] Shields CL, Thangappan A, Hartzell K, et al. Combined hamartoma of the retina and retinal pigment epithelium in 77 consecutive patients visual outcome based on macular versus extramacular tumor location. *Ophthalmology* 2008;115:2246-52.
- [112] Cohn AD, Quiram PA, Drenser KA, et al. Surgical outcomes of epiretinal membranes associated with combined hamartoma of the retina and retinal pigment epithelium. *Retina* 2009;29:825-30.
- [113] Konstantinidis L, Chamot L, Zografos L, et al. Pars plana vitrectomy and epiretinal membrane peeling for vitreoretinal traction associated with combined hamartoma of the retina and retinal pigment epithelium (CHRRPE). *Klin Monbl Augenheilkd* 2007;224:356-9.
- [114] Stallman JB. Visual improvement after pars plana vitrectomy and membrane peeling for vitreoretinal traction associated with combined hamartoma of the retina and retinal pigment epithelium. *Retina* 2002;22:101-4.
- [115] Mason III JO. Visual improvement after pars plana vitrectomy and membrane peeling for vitreoretinal traction associated with combined hamartoma of the retina and retinal pigment epithelium. *Retina* 2002;22:824-5. [author reply 5-6.]
- [116] Aoki S, Barkovich AJ, Nishimura K, et al. Neurofibromatosis types 1 and 2; cranial MR findings. *Radiology* 1989;172:527-34.
- [117] Bouzas EA, Parry DM, Eldridge R, et al. Familial occurrence of combined pigment epithelial and retinal hamartomas associated with neurofibromatosis 2. *Retina* 1992;12:103-7.
- [118] Bouzas EA, Parry DM, Eldridge R, et al. Visual impairment in patients with neurofibromatosis 2. *Neurology* 1993;43:622-3.
- [119] Cotlier E. Café-au-lait spots of the fundus in neurofibromatosis. *Arch Ophthalmol* 1977;95:1990-2.
- [120] Destro M, D'Amico DJ, Gragoudas ES, et al. Retinal manifestations of neurofibromatosis; diagnosis and management. *Arch Ophthalmol* 1991;109:662-6.
- [121] Good WV, Brodsky MC, Edwards MS, et al. Bilateral retinal hamartomas in neurofibromatosis type 2. *Br J Ophthalmol* 1991;75:190.
- [122] Kaye LD, Rothner AD, Beauchamp GR, et al. Ocular findings associated with neurofibromatosis type II. *Ophthalmology* 1992;99:1424-9.
- [123] Landau K, Dossetor FM, Hoyt WF, et al. Retinal hamartoma in neurofibromatosis 2. *Arch Ophthalmol* 1990;108:328-9.
- [124] Mulvihill JJ, Parry DM, Sherman JL, et al. NIH Conference. Neurofibromatosis 1 (Recklinghausen disease) and neurofibromatosis 2 (bilateral acoustic neurofibromatosis); an update. *Ann Intern Med* 1990;113:39-52.
- [125] Sivalingam A, Augsburger J, Perilongo G, et al. Combined hamartoma of the retina and retinal pigment epithelium in a patient with neurofibromatosis type 2. *J Pediatr Ophthalmol Strabismus* 1991;28:320-2.
- [126] Grant EA, Trzupek KM, Reiss J, et al. Combined retinal hamartomas leading to the diagnosis of neurofibromatosis type 2. *Ophthalmic Genet* 2008;29:133-8.
- [127] Cohen SY, Massin P, Quentel G. Clinicopathologic reports, case reports, and small case series: unilateral, idiopathic leopard-spot lesion of the retinal pigment epithelium. *Arch Ophthalmol* 2002;120:512-6.
- [128] Cohen SY, Fung AE, Tadayoni R, et al. Unilateral retinal pigment epithelium dysgenesis. *Am J Ophthalmol* 2009;148:914-9.
- [129] Cohen SY, Fung AE, Tadayoni R, et al. Unilateral retinal pigment epithelium dysgenesis. *Am J Ophthalmol* 2009;148:914-9.
- [130] Laqua H. Tumors and tumor-like lesions of the retinal pigment epithelium. *Ophthalmologica* 1981;183:34-8.
- [131] Minckler D, Allen Jr AW. Adenocarcinoma of the retinal pigment epithelium. *Arch Ophthalmol* 1978;96:2252-4.
- [132] Ramahefasolo S, Coscas G, Regenbogen L, et al. Adenocarcinoma of retinal pigment epithelium. *Br J Ophthalmol* 1987;71:516-20.
- [133] Shields JA, Eagle Jr RC, Barr CC, et al. Adenocarcinoma of retinal pigment epithelium arising from a juxtapapillary histoplasmosis scar. *Arch Ophthalmol* 1994;112:650-3.
- [134] Shields JA, Eagle Jr RC, Shields CL, et al. Pigmented adenoma of the optic nerve head simulating a melanocytoma. *Ophthalmology* 1992;99:1705-8.
- [135] Vogel MH, Wölz U. Malignes Epitheliom des retinalen Pigmentepithels. *Klin Monatsbl Augenheilkd* 1979;175:592-6.
- [136] Finger PT, McCormick SA, Davidian M, et al. Adenocarcinoma of the retinal pigment epithelium: a diagnostic and therapeutic challenge. *Graefes Arch Clin Exp Ophthalmol* 1996;234(Suppl. 1):S22-7.
- [137] Palmer ML, Carney MD, Combs JL. Combined hamartomas of the retinal pigment epithelium and retina. *Retina* 1990;10:33-6.

## 第 13 章

- [1] Abramson DH, Frank CM, Susman M, et al. Presenting signs of retinoblastoma. *J Pediatr* 1998;132:505-8.
- [2] Chantada GL, Dunkel IJ, de Davila MT, et al. Retinoblastoma patients with high risk ocular pathological features: who needs adjuvant therapy? *Br J Ophthalmol* 2004;88:1069-73.
- [3] Magrann I, Abramson DH, Ellsworth RM. Optic nerve involvement in retinoblastoma. *Ophthalmology* 1989;96:217-22.
- [4] Smith JLS. Histology and spontaneous regression of retinoblastoma. *Trans Ophthalmol Soc UK* 1974;94:953-67.
- [5] Devesa SS. The incidence of retinoblastoma. *Am J Ophthalmol* 1975;80:263-5.
- [6] Rubinfeld M, Abramson DH, Ellsworth RM, et al. Unilateral vs. bilateral retinoblastoma; correlations between age at diagnosis and stage of ocular disease. *Ophthalmology* 1986;93:1016-9.
- [7] Broaddus E, Topham A, Singh A. Incidence of Retinoblastoma in the United States: 1975-2004. *Br J Ophthalmol* 2009;93:24-7.
- [8] Chévez-Barrios P, Eagle RC, Marback EF. Histopathologic features and prognostic factors. In: Singh AD, Damato BE, Pe'er J, editors. *Clinical ophthalmic oncology*. Philadelphia: Saunders-Elsevier; 2007. p. 468-76.

- [9] Gass JDM. Differential diagnosis of intraocular tumors; a stereoscopic presentation. St. Louis: CV Mosby; 1974. p. 331.
- [10] Ohnishi Y, Yamana Y, Minei M, et al. Application of fluorescein angiography in retinoblastoma. *Am J Ophthalmol* 1982;93:578-88.
- [11] Shields JA, Sanborn GE, Augsburger JJ, et al. Fluorescein angiography of retinoblastoma. *Retina* 1982;2:206-14.
- [12] Haik BG, Dunleavy SA, Cooke C, et al. Retinoblastoma with anterior chamber extension. *Ophthalmology* 1987;94:367-70.
- [13] Bullock JD, Campbell RJ, Waller RR. Calcification in retinoblastoma. *Invest Ophthalmol Vis Sci* 1977;16:252-5.
- [14] Mafee MF, Goldberg MF, Cohen SB, et al. Magnetic resonance imaging versus computed tomography of leukocoric eyes and use of in vitro proton magnetic resonance spectroscopy of retinoblastoma. *Ophthalmology* 1989;96:965-76.
- [15] Shields JA, Shields CL. Differentiation of Coats' disease and retinoblastoma. *J Pediatr Ophthalmol Strabismus* 2001;38:262-6. [quiz 302-303.]
- [16] Bhatnagar R, Vine AK. Diffuse infiltrating retinoblastoma. *Ophthalmology* 1991;98:1657-61.
- [17] Shields JA, Shields CL, Eagle RC, et al. Spontaneous pseudohypopyon secondary to diffuse infiltrating retinoblastoma. *Arch Ophthalmol* 1988;106:1301.
- [18] Sachdeva R, Schoenfield L, Traboulsi ET, et al. Retinoblastoma with autoinfarction presenting as orbital cellulitis. *J POS* 2011. [in press.]
- [19] Shields JA, Shields CL, Suvarnamani C, et al. Retinoblastoma manifesting as orbital cellulitis. *Am J Ophthalmol* 1991;112:442-9.
- [20] Shields JA, Shields CL, Parsons HM. Differential diagnosis of retinoblastoma. *Retina* 1991;11:232-43.
- [21] Howard GM. Erroneous clinical diagnoses of retinoblastoma and uveal melanoma. *Trans Am Acad Ophthalmol Otolaryngol* 1969;73:199-202.
- [22] Robertson DM, Campbell RJ. Analysis of misdiagnosed retinoblastoma in a series of 726 enucleated eyes. *Mod Probl Ophthalmol* 1977;18:156-9.
- [23] Shields JA, Shields CL, Eagle RC, et al. Calcified intraocular abscess simulating retinoblastoma. *Am J Ophthalmol* 1992;114:227-9.
- [24] Shields CL, Shields JA. Recent developments in the management of retinoblastoma. *J Pediatr Ophthalmol Strabismus* 1999;36:8-18. [quiz 35-36.]
- [25] Harbour JW. Molecular basis of low penetrance retinoblastoma. *Arch Ophthalmol* 2001;119:1699-704.
- [26] Ahmad NN, Melo MB, Singh AD, et al. A possible hot spot in exon 21 of the retinoblastoma gene predisposing to a low penetrant retinoblastoma phenotype? *Ophthalmic Genet* 1999;20:225-31.
- [27] Dryja TP, Rapaport J, McGee TL, et al. Molecular etiology of low-penetrance retinoblastoma in two pedigrees. *Am J Hum Genet* 1993;52:1122-8.
- [28] Toguchida J, McGee TL, Paterson JC, et al. Complete genomic sequence of the human retinoblastoma susceptibility gene. *Genomics* 1993;17:535-43.
- [29] Friend SH, Bernards R, Rogelj S, et al. A human DNA segment with properties of the gene that predisposes to retinoblastoma and osteosarcoma. *Nature* 1986;323:643-6.
- [30] Lee WH, Bookstein R, Hong F, et al. Human retinoblastoma susceptibility gene: cloning, identification, and sequence. *Science* 1987;235:1394-9.
- [31] Lohmann DR, Brandt B, Hopping W, et al. The spectrum of RB1 germ-line mutations in hereditary retinoblastoma. *Am J Hum Genet* 1996;58:940-9.
- [32] Clark RD, Mansfield NC. Retinoblastoma: genetic testing and counseling. In: Singh AD, Damato BE, Pe'er J, editors. *Clinical ophthalmic oncology*. Philadelphia: Saunders-Elsevier; 2007. p. 441-6.
- [33] Singh AD, Black SH, Shields CL, et al. Prenatal diagnosis of retinoblastoma. *J Pediatr Ophthalmol Strabismus* 2003;40:222-4.
- [34] Xu K, Rosenwaks Z, Beaverson K, et al. Preimplantation genetic diagnosis for retinoblastoma: the first reported liveborn. *Am J Ophthalmol* 2004;137:18-23.
- [35] Gallie BL, Ellsworth RM, Abramson DH, et al. Retinoma: spontaneous regression of retinoblastoma or benign manifestation of the mutation? *Br J Cancer* 1982;45:513-21.
- [36] Abramson DH. Retinoma, retinocytoma, and the retinoblastoma gene. *Arch Ophthalmol* 1983;101:1517-8.
- [37] Singh AD, Santos MCM, Shields CL, et al. Observations on 17 patients with retinocytoma. *Arch Ophthalmol* 2000;118:199-205.
- [38] Eagle Jr CR, Shields JA, Donoso L, et al. Malignant transformation of spontaneously regressed retinoblastoma, retinoma/retinocytoma variant. *Ophthalmology* 1989;96:1389-95.
- [39] Gallie BL, Phillips RA, Ellsworth RM, et al. Significance of retinoma and phthisis bulbi for retinoblastoma. *Ophthalmology* 1982;89:1393-9.
- [40] Dimaras H, Khetan V, Halliday W, et al. Retinoma underlying retinoblastoma revealed after tumor response to 1 cycle of chemotherapy. *Arch Ophthalmol* 2009;127:1066-8.
- [41] Murphree AL. Local therapy, brachytherapy, and enucleation. In: Singh AD, Damato BE, Pe'er J, editors. *Clinical ophthalmic oncology*. Philadelphia: Saunders-Elsevier; 2007. p. 454-61.
- [42] Melamud A, Palekar R, Singh A. Retinoblastoma. *Am Fam Physician* 2006;73:1039-44.
- [43] Shields JA, Shields CL, Sivalingam V. Decreasing frequency of enucleation in patients with retinoblastoma. *Am J Ophthalmol* 1989;108:185-8.
- [44] Broaddus E, Topham A, Singh A. Survival with Retinoblastoma in the United States: 1975-2004. *Br J Ophthalmol* 2009;93:21-3.
- [45] Shields JA, Shields CL, Parsons H, et al. The role of photocoagulation in the management of retinoblastoma. *Arch Ophthalmol* 1990;108:205-8.
- [46] Abramson DH, Scheffler AC. Transpupillary thermotherapy as initial treatment for small intraocular retinoblastoma: technique and predictors of success. *Ophthalmology* 2004;111:984-91.
- [47] Shields JA, Parsons H, Shields CL, et al. The role of cryotherapy in the management of retinoblastoma. *Am J Ophthalmol* 1989;108:260-4.
- [48] Shields CL, Santos MC, Diniz W, et al. Thermotherapy for retinoblastoma. *Arch Ophthalmol* 1999;117:885-93.
- [49] Shields JA, Shields CL, De Potter P, et al. Plaque radiotherapy for residual or recurrent retinoblastoma in 91 cases. *J Pediatr Ophthalmol Strabismus* 1994;31:242-5.
- [50] Hernandez JC, Brady LW, Shields JA, et al. External beam radiation for retinoblastoma: results, patterns of failure, and a proposal for treatment guidelines. *Int J Radiat Oncol Biol Phys* 1996;35:125-32.
- [51] Merchant TE. Teletherapy: indications, risks, and new delivery options. In: Singh AD, Damato BE, Pe'er J, editors. *Clinical ophthalmic oncology*. Philadelphia: Saunders-Elsevier; 2007. p. 462-7.
- [52] Ferris FL, Chew EY. A new era for the treatment of retinoblastoma. *Arch Ophthalmol* 1996;114:1412.
- [53] Murphree AL, Villablanca JG, Deegan III WF, et al. Chemotherapy plus local treatment in the management of intraocular retinoblastoma. *Arch Ophthalmol* 1996;114:1348-56.
- [54] Kingston JE, Hungerford JL, Madreperla SA, et al. Results of combined chemotherapy and radiotherapy for advanced intraocular retinoblastoma. *Arch Ophthalmol* 1996;114:1339-43.
- [55] Friedman DL, Himelstein B, Shields CL, et al. Chemoreduction and local ophthalmic therapy for intraocular retinoblastoma. *J Clin*

- Oncol 2000;18:12-17.
- [56] Jubran RF, Villablanca JG, Meadows AT. Chemotherapy for retinoblastoma: an overview. In: Singh AD, Damato BE, Pe'er J, editors. *Clinical ophthalmic oncology*. Philadelphia: Saunders-Elsevier; 2007. p. 449-53.
- [57] Chan HS, Gallie BL, Munier FL, et al. Chemotherapy for retinoblastoma. *Ophthalmol Clin North Am* 2005;18:55-63. viii.
- [58] Shields CL, Mashayekhi A, Au AK, et al. The International Classification of Retinoblastoma predicts chemoreduction success. *Ophthalmology* 2006;113:2276-80.
- [59] Scott IU, Murray TG, Toledano S, et al. New retinoblastoma tumors in children undergoing systemic chemotherapy. *Arch Ophthalmol* 1998;12:1685-6.
- [60] Benz MS, Scott UI, Murray TG, et al. Complications of systemic chemotherapy as treatment of retinoblastoma. *Arch Ophthalmol* 2000;118:577-8.
- [61] Gombos DS, Hungerford J, Abramson DH, et al. Secondary acute myelogenous leukemia in patients with retinoblastoma: is chemotherapy a factor? *Ophthalmology* 2007;114:1378-83.
- [62] Murphree AL, Chantada GL. Staging and grouping of retinoblastoma. In: Singh AD, Damato BE, Pe'er J, editors. *Clinical Ophthalmic Oncology*. Philadelphia, Saunders-Elsevier; 2007. p. 422-7.
- [63] Meadows AT, Chintagumpala M, Dunkel IJ, et al. Children's Oncology Group (COG) Trials for Retinoblastoma. In: Singh AD, Damato BE, Pe'er J, editors. *Clinical ophthalmic oncology*. Philadelphia: Saunders-Elsevier; 2007. p. 491-5.
- [64] Yamane T, Kaneko A, Mohri M. The technique of ophthalmic arterial infusion therapy for patients with intraocular retinoblastoma. *Int J Clin Oncol* 2004;9:69-73.
- [65] Abramson DH. Super selective ophthalmic artery delivery of chemotherapy for intraocular retinoblastoma: 'chemosurgery': the first Stallard lecture. *Br J Ophthalmol* 2010;94:396-9.
- [66] Shields CL, Shields JA. Intra-arterial chemotherapy for retinoblastoma: the beginning of a long journey. *Clin Experiment Ophthalmol* 2010;38:638-43.
- [67] Abramson DH. Super selective ophthalmic artery delivery of chemotherapy for intraocular retinoblastoma: 'chemosurgery': the first Stallard lecture. *Br J Ophthalmol* 2010;94:396-9.
- [68] Abramson DH, Dunkel IJ, Brodie SE, et al. A phase I/II study of direct intraarterial (ophthalmic artery) chemotherapy with melphalan for intraocular retinoblastoma initial results. *Ophthalmology* 2008;115:1398-404.
- [69] Abramson DH, Dunkel IJ, Brodie SE, et al. Superselective ophthalmic artery chemotherapy as primary treatment for retinoblastoma (chemosurgery). *Ophthalmology* 2010;117:1623-9.
- [70] Brodie SE, Pierre Gobin Y, Dunkel IJ, et al. Persistence of retinal function after selective ophthalmic artery chemotherapy infusion for retinoblastoma. *Doc Ophthalmol* 2009;119:13-22.
- [71] Kivela T. Trilateral retinoblastoma: a meta-analysis of hereditary retinoblastoma associated with primary ectopic intracranial retinoblastoma. *J Clin Oncol* 1999;17:1829-37.
- [72] Bader JL, Miller RW, Meadows AT, et al. Trilateral retinoblastoma. *Lancet* 1982;2:582-3.
- [73] Singh AD, Shields CL, Shields JA. New insights into trilateral retinoblastoma. *Cancer* 1999;86:3-5.
- [74] Shields CL, Meadows AT, Shields JA, et al. Chemoreduction for retinoblastoma may prevent intracranial neuroblastic malignancy (trilateral retinoblastoma). *Arch Ophthalmol* 2001;119:1269-72.
- [75] Abramson DH, Ronner HJ, Ellsworth RM. Nonocular cancer in nonirradiated retinoblastoma. *Am J Ophthalmol* 1979;87:624-7.
- [76] Abramson DH, Ellsworth RM, Kitchin FD, et al. Second nonocular tumors in retinoblastoma survivors; are they radiation-induced? *Ophthalmology* 1984;91:1351-5.
- [77] Kleinerman RA, Tucker MA, Tarone RE, et al. Risk of new cancers after radiotherapy in long-term survivors of retinoblastoma: an extended follow-up. *J Clin Oncol* 2005;23:2272-9.
- [78] Wong FL, Boice Jr JD, Abramson DH, et al. Cancer incidence after retinoblastoma. Radiation dose and sarcoma risk. *Jama* 278:1262-1267.
- [79] Moll AC, Imhof SM, Bouter LM, et al. Second primary tumors in patients with retinoblastoma. A review of the literature. *Ophthalmic Genet* 1997;18:27-34.
- [80] Woo KI, Harbour JW. Review of 676 second primary tumors in patients with retinoblastoma: association between age at onset and tumor type. *Arch Ophthalmol* 2010;128:865-70.
- [81] Kopelman JE, McLean IW, Rosenberg SH. Multivariate analysis of risk factors for metastasis in retinoblastoma treated by enucleation. *Ophthalmology* 1987;94:371-7.
- [82] Singh AD, Shields CL, Shields JA. Prognostic factors in retinoblastoma. *J Pediatr Ophthalmol Strabismus* 2000;37:134-41. quiz 68-69
- [83] Messmer EP, Heinrich T, Höpping W, et al. Risk factors for metastases in patients with retinoblastoma. *Ophthalmology* 1991;98:136-41.
- [84] Khelifaoui F, Validire P, Auperin A, et al. Histopathologic risk factors in retinoblastoma: a retrospective study of 172 patients treated in a single institution. *Cancer* 1996;77:1206-13.
- [85] Shields CL, Shields JA, Baez KA, et al. Choroidal invasion of retinoblastoma: metastatic potential and clinical risk factors. *Br J Ophthalmol* 1993;77:544-8.
- [86] Hungerford J. Factors influencing metastasis in retinoblastoma. *Br J Ophthalmol* 1993;77:541.
- [87] Young J., Smith MA, Roffers SD, et al. In: Ries LAG, Smith MA, Linet M, et al. editors. *Cancer incidence and survival among children and adolescents: United States SEER Program 1975-1995*. SEER Program. NIH Pub. No. 99-4649. Bethesda, MD: National Cancer Institute 1999.
- [88] Sanders BM, Draper GJ, Kingston JE. Retinoblastoma in Great Britain 1969-80: incidence, treatment, and survival. *Br J Ophthalmol* 1988;72:576-83.
- [89] Sant M, Capocaccia R, Badioni V, et al. Survival for retinoblastoma in Europe. *Eur J Cancer* 2001;37:730-5.
- [90] Senft S, al-Kaff A, Bergqvist G, et al. Retinoblastoma: the Saudi Arabian experience. *Ophthalmic Paediatr Genet* 1988;9:115-9.
- [91] Ajaiyeoba IA, Akang EE, Campbell OB, et al. Retinoblastomas in Ibadan: treatment and prognosis. *West Afr J Med* 1993;12:223-7.
- [92] Nandakumar A, Anantha N, Appaji L, et al. Descriptive epidemiology of childhood cancers in Bangalore, India. *Cancer Causes Control* 1996;7:405-10.
- [93] Mohny BG, Robertson DM. Ancillary testing for metastasis in patients with newly diagnosed retinoblastoma. *Am J Ophthalmol* 1994;118:707-11.
- [94] McCay CJ, Abramson DH, Ellsworth RM. Metastatic patterns of retinoblastoma. *Arch Ophthalmol* 1984;102:391-6.
- [95] Honavar SG, Singh AD, Shields CL, et al. Postenucleation adjuvant therapy in high-risk retinoblastoma. *Arch Ophthalmol* 2002;120:923-31.
- [96] Broughton WL, Zimmerman LE. A clinicopathologic study of 56 cases of intraocular medulloepitheliomas. *Am J Ophthalmol* 1978;85:407-18.
- [97] Shields JA, Eagle Jr RC, Shields CL, et al. Congenital neoplasms of the nonpigmented ciliary epithelium (medulloepithelioma). *Ophthalmology* 1996;103:1998-2006.
- [98] Shields JA, Eagle Jr RC, Shields CL, et al. Pigmented medulloepithelioma of the ciliary body. *Arch Ophthalmol* 2002;120:207-10.
- [99] Singh A, Singh AD, Shields CL, et al. Iris neovascularization in



- children as a manifestation of underlying medulloepithelioma. *J Pediatr Ophthalmol Strabismus* 2001;38:224-8.
- [100] Priest JR, Williams GR, Jenkinson H, et al. Pleuropulmonary blastoma family tumor and dysplasia syndrome – A Report from the International Pleuropulmonary Blastoma Registry. *Br J Ophthalmol* 2011 [in press]
- [101] Canning CR, McCartney AC, Hungerford J. Medulloepithelioma (diktyoma). *Br J Ophthalmol* 1988;72:764-7.
- [102] Atkinson A, Sanders MD, Wong V. Vitreous haemorrhage in tuberous sclerosis; report of two cases. *Br J Ophthalmol* 1973;57:773-9.
- [103] Barksy D, Wolter JR. The retinal lesion of tuberous sclerosis: An angiogliomatous hamartoma? *J Pediatr Ophthalmol* 1971;8:261-5.
- [104] Bloom SM, Mahl CF. Photocoagulation for serous detachment of the macula secondary to retinal astrocytoma. *Retina* 1991;11:416-22.
- [105] Coppeto JR, Lubin JR, Albert DM. Astrocytic hamartoma in tuberous sclerosis mimicking necrotizing retinochoroiditis. *J Pediatr Ophthalmol Strabismus* 1982;19:306-13.
- [106] Daily MJ, Smith JL, Dickens W. Giant drusen (astrocytic hamartoma) of the optic nerve seen with computerized axial tomography. *Am J Ophthalmol* 1976;81:100-1.
- [107] De Bustros S, Miller NR, Finkelstein D, et al. Bilateral astrocytic hamartomas of the optic nerve heads in retinitis pigmentosa. *Retina* 1983;3:21-3.
- [108] Destro M, D'Amico DJ, Gragoudas ES, et al. Retinal manifestations of neurofibromatosis; diagnosis and management. *Arch Ophthalmol* 1991;109:662-6.
- [109] Eng LF, Rubinstein LJ. Contribution of immunohistochemistry to diagnostic problems of human cerebral tumors. *J Histochem Cytochem* 1978;26:513-22.
- [110] Font RL, Ferry AP. The phakomatoses. *Int Ophthalmol Clin* 1972;12:1-50.
- [111] Foos RY, Straatsma BR, Allen RA. Astrocytoma of the optic nerve head. *Arch Ophthalmol* 1965;74:319-26.
- [112] Garron LK, Spencer WH. Retinal glioneuroma associated with tuberous sclerosis. *Trans Am Acad Ophthalmol Otolaryngol* 1964;68:1018-21.
- [113] Gutman I, Dunn D, Behrens M, et al. Hypopigmented iris spot: an early sign of tuberous sclerosis. *Ophthalmology* 1982;89:1155-9.
- [114] Harley RD, Grover WD. Tuberous sclerosis; description and report of 12 cases. *Ann Ophthalmol* 1970;1:477-81.
- [115] Jakobiec FA, Brodie SE, Haik B, et al. Giant cell astrocytoma of the retina; a tumor of possible Mueller cell origin. *Ophthalmology* 1983;90:1565-76.
- [116] Jordano J, Galera H, Toro M, et al. Astrocytoma of the retina: Report of a case. *Br J Ophthalmol* 1974;58:555-9.
- [117] Jozwiak S. Diagnostic value of clinical features and supplementary investigations in tuberous sclerosis in children. *Acta Paediatr Hung* 1992;32:71-88.
- [118] Nyboer JH, Robertson DM, Gomez MR. Retinal lesions in tuberous sclerosis. *Arch Ophthalmol* 1976;94:1277-80.
- [119] Shami MJ, Benedict WL, Myers M. Early manifestation of retinal hamartomas in tuberous sclerosis. *Am J Ophthalmol* 1993;115:539-40.
- [120] Wang C-L, Brucker AJ. Vitreous hemorrhage secondary to juxtapapillary vascular hamartoma of the retina. *Retina* 1984;4:44-7.
- [121] Wolter JR, Mertus JM. Exophytic retinal astrocytoma in tuberous sclerosis; report of a case. *J Pediatr Ophthalmol* 1969;6:186-91.
- [122] Zimmerman LE, Walsh FB. Clinical pathologic conference. *Am J Ophthalmol* 1956;42:737-47.
- [123] Gass JDM. The phakomatoses. In: Smith JL, editor. *Neuro-ophthalmology; symposium of the University of Miami and the Bascom Palmer Eye Institute*. St. Louis: CV Mosby; 1965. p. 223-68.
- [124] Cleasby GW, Fung WE, Shekter WB. Astrocytoma of the retina; report of two cases. *Am J Ophthalmol* 1967;64:633-7.
- [125] McLean JM. Glial tumors of the retina in relation to tuberous sclerosis. *Am J Ophthalmol* 1956;41:428-32.
- [126] Kroll AJ, Ricker DP, Robb RM, et al. Vitreous hemorrhage complicating retinal astrocytic hamartoma. *Surv Ophthalmol* 1981;26:31-8.
- [127] Ramsay RC, Kinyoun JL, Hill CW, et al. Retinal astrocytoma. *Am J Ophthalmol* 1979;88:32-6.
- [128] Reeser FH, Aaberg TM, Van Horn DL. Astrocytic hamartoma of the retina not associated with tuberous sclerosis. *Am J Ophthalmol* 1978;86:688-98.
- [129] Panzo GJ, Meyers SM, Gutman FA, et al. Spontaneous regression of parafoveal exudates and serous retinal detachment in a patient with tuberous sclerosis and retinal astrocytomas. *Retina* 1984;4:242-5.
- [130] Sahlí O, Sickenberg M, Piguet B. [Exudative parafoveal astrocytic hamartoma associated with Bourneville tuberous sclerosis: spontaneous evolution.] *Klin Monbl Augenheilkd* 1997;210:332-3.
- [131] Drummond SR, Kemp EG. Retinal astrocytoma managed by brachytherapy. *Ophthalmology* 2009;116(597):e1.
- [132] Vilaplana D, Castilla M, Poposki V, et al. Acquired retinal astrocytoma managed with endoresection. *Retina* 2006;26:1081-2.
- [133] Shields JA, Eagle Jr. RC, Shields CL, et al. Aggressive retinal astrocytomas in 4 patients with tuberous sclerosis complex. *Arch Ophthalmol* 2005;123:856-63.
- [134] Eskelin S, Tommila P, Palosaari T, et al. Photodynamic therapy with verteporfin to induce regression of aggressive retinal astrocytomas. *Acta Ophthalmol* 2008;86:794-9.
- [135] Mennel S, Hausmann N, Meyer CH, et al. Photodynamic therapy for exudative hamartoma in tuberous sclerosis. *Arch Ophthalmol* 2006;124:597-9.
- [136] Bornfeld N, Messmer EP, Theodossiadis G, et al. Giant cell astrocytoma of the retina; clinicopathologic report of a case not associated with Bourneville's disease. *Retina* 1987;7:183-9.
- [137] Margo CE, Barletta JP, Staman JA. Giant cell astrocytoma of the retina in tuberous sclerosis. *Retina* 1993;13:155-9.
- [138] Sahel JA, Frederick Jr AR, Pesavento R, et al. Idiopathic retinal gliosis mimicking a choroidal melanoma. *Retina* 1988;8:282-7.
- [139] Schwartz PL, Beards JA, Maris PJG. Tuberous sclerosis associated with a retinal angioma. *Am J Ophthalmol* 1980;90:485-8.
- [140] Pillai S, Limaye SR, Saimovici L-B. Optic disc hamartoma associated with retinitis pigmentosa. *Retina* 1983;3:24-6.
- [141] Robertson DM. Hamartomas of the optic disk with retinitis pigmentosa. *Am J Ophthalmol* 1972;74:526-31.
- [142] Jost BF, Olk RJ. Atypical retinitis proliferans, retinal telangiectasis, and vitreous hemorrhage in a patient with tuberous sclerosis. *Retina* 1986;6:53-6.
- [143] Rowley SA, O'Callaghan FJ, Osborne JP. Ophthalmic manifestations of tuberous sclerosis: a population based study. *Br J Ophthalmol* 2001;85:420-3.
- [144] Au KS, Williams AT, Roach ES, et al. Genotype/phenotype correlation in 325 individuals referred for a diagnosis of tuberous sclerosis complex in the United States. *Genet Med* 2007;9:88-100.
- [145] Robertson DM. Ophthalmic manifestations of tuberous sclerosis. *Ann N Y Acad Sci* 1991;615:17-25.
- [146] Gass JDM. Stereoscopic atlas of macular diseases: diagnosis and

- treatment, 4th ed. St Louis: Mosby; 1997.
- [147] Roach ES, Gomez MR, Northrup H. Tuberous Sclerosis Complex Consensus Conference: revised clinical diagnostic criteria. *J Child Neurol* 1998;13:624–8.
- [148] van Slegtenhorst M, de Hoogt R, Hermans C, et al. Identification of the tuberous sclerosis gene TSC1 on chromosome 9q34. *Science* 1997;277:805–8.
- [149] European Chromosome 16 Tuberous Sclerosis Consortium. Identification and characterization of the tuberous sclerosis gene on chromosome 16. *Cell* 1993;75:1305–1315.
- [150] Catania MG, Johnson MW, Liau LM, et al. Hamartin expression and interaction with tuberin in tumor cell lines and primary cultures. *J Neurosci Res* 2001;63:276–83.
- [151] Turell ME, Traboulsi ET, Gupta A, et al. Tuberous sclerosis complex: Genotype/phenotype correlation of retinal findings. *Ophthalmology* 2011. [in press.]
- [152] Amalric P, Biau C. L'angiographie fluorescéinique chez l'enfant. *Arch Ophthalmol (Paris)* 1968;28:55–60.
- [153] Augsburger JJ, Shields JA, Goldberg RE. Classification and management of hereditary retinal angiomas. *Int Ophthalmol* 1981;4:93–106.
- [154] Colvard DM, Robertson DM, Trautmann JC. Cavemous hemangioma of the retina. *Arch Ophthalmol* 1978;96:2042–4.
- [155] Davies WS, Thumim M. Cavemous hemangioma of the optic disc and retina. *Trans Am Acad Ophthalmol Otolaryngol* 1956;60:217–8.
- [156] Drummond JW, Hall DL, Steen Jr WH, et al. Cavemous hemangioma of the optic disc. *Ann Ophthalmol* 1980;12:1017–8.
- [157] Gass JDM. Cavemous hemangioma of the retina; a neuro-oculocutaneous syndrome. *Am J Ophthalmol* 1971;71:799–814.
- [158] Gass JDM. Fluorescein angiography: an aid to the retinal surgeon. In: Pruett RC, Regan CDJ, editors. *Retina Congress; 25th anniversary meeting of the Retina Service Massachusetts Eye and Ear Infirmary*. New York: Appleton-Century-Crofts; 1974. p. 181–201.
- [159] Gass JDM. Treatment of retinal vascular anomalies. *Trans Am Acad Ophthalmol Otolaryngol* 1977;83:OP432–OP442.
- [160] Gislason I, Stenkula S, Alm A, et al. Cavemous haemangioma of the retina. *Acta Ophthalmol* 1979;57:709–17.
- [161] Goldberg RE, Pheasant TR, Shields JA. Cavemous hemangioma of the retina; a four-generation pedigree with neurocutaneous manifestations and an example of bilateral retinal involvement. *Arch Ophthalmol* 1979;97:2321–4.
- [162] Hogan MJ, Zimmerman LE. *Ophthalmic pathology; an atlas and textbook*. Philadelphia: WB Saunders; 1962. p. 492.
- [163] Klein M, Goldberg MF, Cotlier E. Cavemous hemangioma of the retina: report of four cases. *Ann Ophthalmol* 1975;7:1213–21.
- [164] Krause U. A case of cavemous haemangioma of the retina. *Acta Ophthalmol* 1971;49:221–31.
- [165] Lewis RA, Cohen MH, Wise GN. Cavemous haemangioma of the retina and optic disc; a report of three cases and a review of the literature. *Br J Ophthalmol* 1975;59:422–34.
- [166] Mansour AM, Jampol LM, Hrisomalos NF, et al. Cavemous hemangioma of the optic disc. *Arch Ophthalmol* 1988;106:22.
- [167] Niccol W, Moore RF. A case of angiomatosis retinae. *Br J Ophthalmol* 1934;18:454–7.
- [168] Pancurak J, Goldberg MF, Frenkel M, et al. Cavemous hemangioma of the retina; genetic and central nervous system involvement. *Retina* 1985;5:215–20.
- [169] Schwartz AC, Weaver Jr RG, Bloomfield R, et al. Cavemous hemangioma of the retina, cutaneous angiomas, and intracranial vascular lesion by computed tomography and nuclear magnetic resonance imaging. *Am J Ophthalmol* 1984;98:483–7.
- [170] Turut P, François P. Hémangiome cavernoux de la rétine. *J Fr Ophthalmol* 1979;2:393–404.
- [171] Weskamp C, Cotlier I. Angioma del cerebro y de la retina con malformaciones capilares de la piel. *Arch Ophthalmol Buenos Aires* 1940;15:1–10.
- [172] Yen M-Y, Wu C-C. Cavemous hemangioma of the retina and agenesis of internal carotid artery with bilateral oculomotor palsies. *J Clin Neuro-Ophthalmol* 1985;5:258–62.
- [173] Messmer E, Laqua H, Wessing A, et al. Nine cases of cavemous hemangioma of the retina. *Am J Ophthalmol* 1983;95:383–90.
- [174] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 3rd ed. St. Louis: CV Mosby; 1987. p. 606–11.
- [175] Corboy JR, Galetta SL. Familial cavemous angiomas manifesting with an acute chiasmal syndrome. *Am J Ophthalmol* 1989;108:245–50.
- [176] Dobyns WB, Michels VV, Groover RV, et al. Familial cavemous malformations of the central nervous system and retina. *Ann Neurol* 1987;21:578–83.
- [177] Giuffrè G. Cavemous hemangioma of the retina and retinal telangiectasis; distinct or related vascular malformations? *Retina* 1985;5:221–4.
- [178] Hassler W, Zentner J, Wilhelm H. Cavemous angiomas of the anterior visual pathways. *J Clin Neuro-Ophthalmol* 1989;9:160–4.
- [179] Malik S, Cohen BH, Robinson J, et al. Progressive vision loss; a rare manifestation of familial cavemous angiomas. *Arch Neurol* 1992;49:170–3.
- [180] McCormick WF, Hardman JM, Boulter TR. Vascular malformations (“angiomas”) of the brain, with special reference to those occurring in the posterior fossa. *J Neurosurg* 1968;28:241–51.
- [181] Neame H. Angiomatosis retinae, with report of pathological examination. *Br J Ophthalmol* 1948;32:677–89.
- [182] Roberson GH, Kase CS, Wolpov ER. Telangiectases and cavemous angiomas of the brainstem: “Cryptic” vascular malformations; a report of a case. *Neuroradiology* 1974;8:83–9.
- [183] Spencer WH. Primary neoplasms of the optic nerve and its sheaths: clinical features and current concepts of pathogenetic mechanisms. *Trans Am Ophthalmol Soc* 1972;70:490–528.
- [184] Voigt K, Yasargil MG. Cerebral cavemous haemangiomas or cavernomas; incidence, pathology, localization, diagnosis, clinical features and treatment; review of the literature and report of an unusual case. *Neurochirurgia* 1976;19:59–68.
- [185] Wallner Jr EF, Moorman LT. Hemangioma of the optic disc. *Arch Ophthalmol* 1955;53:115–7.
- [186] Davenport WJ, Siegel AM, Dichgans J, et al. CCM1 gene mutations in families segregating cerebral cavemous malformations. *Neurology* 2001;56:540–3.
- [187] Couteulx SL, Brezin AP, Fontaine B, et al. A novel KRIT1/CCM1 truncating mutation in a patient with cerebral and retinal cavemous angiomas. *Arch Ophthalmol* 2002;120:217–8.
- [188] D'Angelo R, Marini V, Rinaldi C, et al. Mutation Analysis of CCM1, CCM2 and CCM3 genes in a cohort of italian patients with cerebral cavemous malformation. *Brain Pathol* 2011;21:215–24.
- [189] Bottoni F, Canevini MP, Canger R, et al. Twin vessels in familial retinal cavemous hemangioma. *Am J Ophthalmol* 1990;109:285–9.
- [190] Messmer E, Font RL, Laqua H, et al. Cavemous hemangioma of the retina; immunohistochemical and ultrastructural observations. *Arch Ophthalmol* 1984;102:413–8.
- [191] Haller JA, Knox DL. Vitrectomy for persistent vitreous hemorrhage from a cavemous hemangioma of the optic disk. *Am J Ophthalmol* 1993;116:106–7.
- [192] Simard JM, Garcia-Bengochea F, Ballinger Jr WE, et al.

- Cavernous angioma: A review of 126 collected and 12 new cases. *Neurosurgery* 1986;18:162–72.
- [193] Frenkel M, Russe HP. Retinal telangiectasia associated with hypogammaglobulinemia. *Am J Ophthalmol* 1967;63:215–20.
- [194] Gautier-Smith PC, Sanders MD, Sanderson KV. Ocular and nervous system involvement in angioma serpiginosum. *Br J Ophthalmol* 1971;55:433–43.
- [195] Crompton JL, Taylor D. Ocular lesions in the blue rubber bleb naevus syndrome. *Br J Ophthalmol* 1981;65:133–7.
- [196] Hippel E von. Über eine sehr seltene Erkrankung der Netzhaut; Klinische Beobachtungen. *Albrecht von Graefes Arch Ophthalmol* 1904;59:83–106.
- [197] Annesley Jr WH, Leonard BC, Shields JA, et al. Fifteen year review of treated cases of retinal angiomas. *Trans Am Acad Ophthalmol Otolaryngol* 1977;83:OP446–OP453.
- [198] Benson M, Mody C, Rennie I, et al. Haemangioma of the optic disc. *Graefes Arch Clin Exp Ophthalmol* 1990;228:332–4.
- [199] Gass JDM, Braunstein R. Sessile and exophytic capillary angiomas of the juxtapapillary retina and optic nerve head. *Arch Ophthalmol* 1980;98:1790–7.
- [200] Goldberg MF, Duke JR. von Hippel–Lindau disease; histopathologic findings in a treated and an untreated eye. *Am J Ophthalmol* 1968;66:693–705.
- [201] Hagler WS, Hyman BN, Waters III WC. von Hippel’s angiomas of the retina and pheochromocytoma. *Trans Am Acad Ophthalmol Otolaryngol* 1971;75:1022–34.
- [202] Haining WM, Zweifach PH. Fluorescein angiography in von Hippel–Lindau disease. *Arch Ophthalmol* 1967;78:475–9.
- [203] Hardwig T, Robertson DM. von Hippel–Lindau disease: A familial, often lethal, multi-system phakomatosis. *Ophthalmology* 1984;91:263–70.
- [204] Lindau A. Studien über Kleinhirncysten; Bau, Pathogenese und Beziehungen zur Angiomatosis Retinae. *Acta Pathol Microbiol Scand Suppl* 1926;1:77.
- [205] Lindau A. Zur Frage der Angiomatosis retinae und ihrer Hirnkomplikationen. *Acta Ophthalmol* 1926;4:193–226.
- [206] Machemer R, Williams Sr JM. Pathogenesis and therapy of traction detachment in various retinal vascular diseases. *Am J Ophthalmol* 1988;105:170–81.
- [207] Maher ER, Moore AT. von Hippel–Lindau disease. *Br J Ophthalmol* 1992;76:743–5.
- [208] Melmon KL, Rosen SW. Lindau’s disease; review of the literature and study of a large kindred. *Am J Med* 1964;36:595–617.
- [209] Nerad JA, Kersten RC, Anderson RL. Hemangioblastoma of the optic nerve; report of a case and review of literature. *Ophthalmology* 1988;95:398–402.
- [210] Oosterhuis JA, Rubinstein K. Haemangioma at the optic disc. *Ophthalmologica* 1972;164:362–74.
- [211] Ridley M, Green J, Johnson G. Retinal angiomas: the ocular manifestations of von Hippel–Lindau disease. *Can J Ophthalmol* 1986;21:276–83.
- [212] Schindler RF, Sarin LK, MacDonald PR. Hemangiomas of the optic disc. *Can J Ophthalmol* 1975;10:305–18.
- [213] Schmidt D, Neumann HPH. Atypische retinale Veränderungen bei v. Hippel–Lindau-Syndrom. *Fortschr Ophthalmol* 1987;84:187–9.
- [214] Schmidt D, Neumann HPH, Witschel H. Mikroläsionen der Retina bei Patienten mit v. Hippel–Lindau-Syndrom. *Fortschr Ophthalmol* 1986;83:233–5.
- [215] Takahashi T, Wada H, Tani E, et al. Capillary hemangioma of the optic disc. *J Clin Neuro-Ophthalmol* 1984;4:159–62.
- [216] Thomas JV, Gragoudas ES, Blair NP, et al. Correlation of epinephrine use and macular edema in aphakic glaucomatous eyes. *Arch Ophthalmol* 1978;96:625–8.
- [217] Yimoyines DJ, Topilow HW, Abedin S, et al. Bilateral peripapillary exophytic retinal hemangioblastomas. *Ophthalmology* 1982;89:1388–92.
- [218] Singh AD, Nouri M, Shields CL, et al. Retinal capillary hemangioma: a comparison of sporadic cases and cases associated with von Hippel–Lindau disease. *Ophthalmology* 2001;108:1907–11.
- [219] Singh AD, Shields CL, Shields JA. von Hippel–Lindau disease. *Surv Ophthalmol* 2001;46:117–42.
- [220] Fritch CD. Multiple carcinomatosis and von Hippel–Lindau disease requiring bilateral nephrectomy. *Ann Ophthalmol* 1980;12:1307–9.
- [221] de Jong PTVM, Verkaar R, van de Vooren MJ, et al. Twin vessels in von Hippel–Lindau disease. *Am J Ophthalmol* 1988;105:165–9.
- [222] Latif F, Tory K, Gnarr J, et al. Identification of the von Hippel–Lindau disease tumor suppressor gene. *Science* 1993;260:1317–20.
- [223] Stolle C, Glenn G, Zbar B, et al. Improved detection of germline mutations in the von Hippel–Lindau disease tumor suppressor gene. *Hum Mutat* 1998;12:417–23.
- [224] Singh AD, Ahmad NN, Shields CL, et al. Solitary retinal capillary hemangioma: lack of genetic evidence for von Hippel–Lindau disease. *Ophthalmic Genet* 2002;23:21–7.
- [225] Laatikainen L, Immonen I, Summanen P. Peripheral retinal angioma-like lesion and macular pucker. *Am J Ophthalmol* 1989;108:563–6.
- [226] Schwartz PL, Fastenberg DM, Shakin JL. Management of macular pucker associated with retinal angiomas. *Ophthalmic Surg* 1990;21:550–6.
- [227] Schwartz PL, Trubowitsch G, Fastenberg DM, et al. Macular pucker and retinal angioma. *Ophthalmic Surg* 1987;18:677–9.
- [228] Nicholson DH, Anderson LS, Blodi C. Rhegmatogenous retinal detachment in angiomas of the retina. *Am J Ophthalmol* 1986;101:187–9.
- [229] Imes RK, Monteiro MLR, Hoyt WF. Incipient hemangioblastoma of the optic disk. *Am J Ophthalmol* 1984;98:116.
- [230] Jesberg DO, Spencer WH, Hoyt WF. Incipient lesions of von Hippel–Lindau disease. *Arch Ophthalmol* 1968;80:632–40.
- [231] Magnússon L, Törnquist R. Incipient lesions in angiomas of the retina. *Acta Ophthalmol* 1973;51:152–8.
- [232] Salazar FG, Lamiell JM. Early identification of retinal angiomas in a large kindred with von Hippel–Lindau disease. *Am J Ophthalmol* 1980;89:540–5.
- [233] Welch RB. von Hippel–Lindau disease: The recognition and treatment of early angiomas of the retina and the use of cryosurgery as an adjunct to therapy. *Trans Am Ophthalmol Soc* 1970;68:367–424.
- [234] Grossniklaus HE, Thomas JW, Vigneswaran N, et al. Retinal hemangioblastoma; a histologic, immunohistochemical, and ultrastructural evaluation. *Ophthalmology* 1992;99:140–5.
- [235] Jakobiec FA, Font RL, Johnson FB. Angiomatosis retinae: an ultrastructural study and lipid analysis. *Cancer* 1976;38:2042–56.
- [236] Mottow-Lippa L, Tso MOM, Peyman GA, et al. von Hippel angiomas: a light, electron microscopic, and immunoperoxidase characterization. *Ophthalmology* 1983;90:848–55.
- [237] Nicholson DH, Green WR, Kenyon KR. Light and electron microscopic study of early lesions in angiomas of the retina. *Am J Ophthalmol* 1976;82:193–204.
- [238] Souders BF. Juxtapapillary hemangioma of the retina; report of a case. *Arch Ophthalmol* 1949;41:178–82.
- [239] Whitson JT, Welch RB, Green WR. Von Hippel–Lindau disease: case report of a patient with spontaneous regression of a retinal angioma. *Retina* 1986;6:253–9.
- [240] Chan CC, Vortmeyer AO, Chew EY, et al. VHL gene deletion and

- enhanced VEGF gene expression detected in the stromal cells of retinal angioma. *Arch Ophthalmol* 1999;117:625–30.
- [241] Kaelin WG, Iliopoulos O, Lonergan KM, et al. Functions of the von Hippel–Lindau tumour suppressor protein. *J Intern Med* 1998;243:535–9.
- [242] Apple DJ, Goldberg MF, Wyhinny GJ. Argon laser treatment of von Hippel–Lindau retinal angiomas. II. Histopathology of treated lesions. *Arch Ophthalmol* 1974;92:126–30.
- [243] Blodi CF, Russell SR, Pulido JS, et al. Direct and feeder vessel photocoagulation of retinal angiomas with dye yellow laser. *Ophthalmology* 1990;97:791–5.
- [244] Goldberg MF, Koenig S. Argon laser treatment of von Hippel–Lindau retinal angiomas. I. Clinical and angiographic findings. *Arch Ophthalmol* 1974;92:121–5.
- [245] Amoils SP, Smith TR. Cryotherapy of angiomatosis retinae. *Arch Ophthalmol* 1969;81:689–91.
- [246] Watzke RC. Cryotherapy for retinal angiomatosis; a clinicopathologic report. *Arch Ophthalmol* 1974;92:399–401.
- [247] Watzke RC, Weingeist TA, Constantine JB. Diagnosis and management of von Hippel–Lindau disease. In: Peyman GA, Apple DJ, Sanders DR, editors. *Intraocular tumors*. New York: Appleton-Century-Crofts; 1977. p. 199–217.
- [248] Singh AD, Nouri M, Shields CL, et al. Treatment of retinal capillary hemangioma. *Ophthalmology* 2002;109:1799–806.
- [249] Cardosa RD, Brockhurst RJ. Perforating diathermy coagulation for retinal angiomas. *Arch Ophthalmol* 1976;94:1702–15.
- [250] Johnson MW, Flynn Jr HW, Gass JDM. Pars plana vitrectomy and direct diathermy for complications of multiple retinal angiomas. *Ophthalmic Surg* 1992;23:47–50.
- [251] Peyman GA, Rednam KRV, Mottow-Lippa L, et al. Treatment of large von Hippel tumors by eye wall resection. *Ophthalmology* 1983;90:840–7.
- [252] Atebara NH. Retinal capillary hemangioma treated with verteporfin photodynamic therapy. *Am J Ophthalmol* 2002;134:788–90.
- [253] Schmidt-Erfurth UM, Kusserow C, Barbazetto IA, et al. Benefits and complications of photodynamic therapy of papillary capillary hemangiomas. *Ophthalmology* 2002;109:1256–66.
- [254] Schmidt D, Natt E, Neumann HP. Long-term results of laser treatment for retinal angiomatosis in von Hippel–Lindau disease. *Eur J Med Res* 2000;5:47–58.
- [255] Sachdeva R, Dadgostar H, Kaiser PK, et al. Verteporfin photodynamic therapy of six eyes with retinal capillary haemangioma. *Acta Ophthalmol* 2010;88:e334–40.
- [256] Dahr SS, Cusick M, Rodriguez-Coleman H, et al. Intravitreal anti-vascular endothelial growth factor therapy with pegaptanib for advanced von Hippel–Lindau disease of the retina. *Retina* 2007;27:150–8.
- [257] Wong WT, Liang KJ, Hammel K, et al. Intravitreal ranibizumab therapy for retinal capillary hemangioblastoma related to von Hippel–Lindau disease. *Ophthalmology* 2008;115:1957–64.
- [258] Wong WT, Chew EY. Ocular von Hippel–Lindau disease: clinical update and emerging treatments. *Curr Opin Ophthalmol* 2008;19:213–7.
- [259] Dabeszies OH, Walsh FB, Hayes GJ. Papilledema with hamartoma of hypothalamus. *Arch Ophthalmol* 1961;65:174–80.
- [260] Darr JL, Hughes Jr RP, McNair JN. Bilateral peripapillary retinal hemangiomas; a case report. *Arch Ophthalmol* 1966;75:77–81.
- [261] Campochiaro PA, Conway BP. Hemangioma-like masses of the retina. *Arch Ophthalmol* 1988;106:1409–13.
- [262] De Laey JJ, Heintz B, Pollet L. Retinal angioma and juvenile sex-linked retinoschisis. *Ophthalmic Paediatr Genet* 1992;13:73–6.
- [263] Gottlieb F, Fammartino JJ, Stratford TP, et al. Retinal angiomatous mass; a complication of retinal detachment surgery. *Retina* 1984;4:152–7.
- [264] Medlock RD, Shields JA, Shields CL, et al. Retinal hemangioma-like lesions in eyes with retinitis pigmentosa. *Retina* 1990;10:274–7.
- [265] Retsas C, Sarks J, Shanahan J. Angiomatose rétinienne associée à une maladie de Stargardt. A propos d'un cas cliqué. *J Fr Ophtalmol* 1989;12:857–62.
- [266] Schachat AP, Markowitz JA, Guyer DR, et al. Ophthalmic manifestations of leukemia. *Arch Ophthalmol* 1989;107:697–700.
- [267] Kincaid MC, Green WR. Ocular and orbital involvement in leukemia. *Surv Ophthalmol* 1983;27:211–32.
- [268] Leonardy NJ, Rupani M, Dent G, et al. Analysis of 135 autopsy eyes for ocular involvement in leukemia. *Am J Ophthalmol* 1990;109:436–44.
- [269] Guyer DR, Schachat AP, Vitale S, et al. Leukemic retinopathy; relationship between fundus lesions and hematologic parameters at diagnosis. *Ophthalmology* 1989;96:860–4.
- [270] Buchan J, McKibbin M, Burton T. The prevalence of ocular disease in chronic lymphocytic leukaemia. *Eye (Lond)* 2003;17:27–30.
- [271] Allen RA, Straatsma BR. Ocular involvement in leukemia and allied disorders. *Arch Ophthalmol* 1961;66:490–508.
- [272] Culler AM. Fundus changes in leukemia. *Trans Am Ophthalmol Soc* 1951;49:445–73.
- [273] Cullis CM, Hines DR, Bullock JD. Anterior segment ischemia: classification and description in chronic myelogenous leukemia. *Ann Ophthalmol* 1979;11:1739–44.
- [274] De Juan E, Green WR, Rice TA, et al. Optic disc neovascularization associated with ocular involvement in acute lymphocytic leukemia. *Retina* 1982;2:61–4.
- [275] Duke JR, Wilkinson CP, Sigelman S. Retinal microaneurysms in leukaemia. *Br J Ophthalmol* 1968;52:368–74.
- [276] Holt JM, Gordon-Smith EC. Retinal abnormalities in diseases of the blood. *Br J Ophthalmol* 1969;53:145–60.
- [277] Mahneke A, Videbaek A. On changes in the optic fundus in leukaemia; aetiology, diagnostic and prognostic role. *Acta Ophthalmol* 1964;42:201–10.
- [278] Rosenthal AR, Egbert PR, Wilbur JR, et al. Leukemic involvement of the optic nerve. *J Pediatr Ophthalmol* 1975;12:84–93.
- [279] Swartz M, Schumann GB. Acute leukemic infiltration of the vitreous diagnosed by pars plana aspiration. *Am J Ophthalmol* 1980;90:326–30.
- [280] Wood WJ, Nicholson DH. Corneal ring ulcer as the presenting manifestation of acute monocytic leukemia. *Am J Ophthalmol* 1973;76:69–72.
- [281] Mehta P. Ophthalmologic manifestations of leukemia. *J Pediatr* 1979;95:156–7.
- [282] Karesh JW, Goldman EJ, Reck K, et al. A prospective ophthalmic evaluation of patients with acute myeloid leukemia: correlation of ocular and hematologic findings. *J Clin Oncol* 1989;7:1528–32.
- [283] Ohkoshi K, Tsiaras WG. Prognostic importance of ophthalmic manifestations in childhood leukaemia. *Br J Ophthalmol* 1992;76:651–5.
- [284] Kuwabara T, Aiello L. Leukemic miliary nodules in the retina. *Arch Ophthalmol* 1964;72:494–7.
- [285] Robb RM, Ervin LD, Sallan SE. A pathological study of eye involvement in acute leukemia of childhood. *Trans Am Ophthalmol Soc* 1978;76:90–101.
- [286] Jampol LM, Goldberg MF, Busse B. Peripheral retinal microaneurysms in chronic leukemia. *Am J Ophthalmol* 1975;80:242–8.
- [287] Delaney Jr WV, Kinsella G. Optic disk neovascularization in leukemia. *Am J Ophthalmol* 1985;99:212–3.



- [288] Minnella AM, Yannuzzi LA, Slakter JS, et al. Bilateral perifoveal ischemia associated with chronic granulocytic leukemia. *Arch Ophthalmol* 1988;106:1170-1.
- [289] Wiznia RA, Rose A, Levy AL. Occlusive microvascular retinopathy with optic disc and retinal neovascularization in acute lymphocytic leukemia. *Retina* 1994;14:253-5.
- [290] Frank RN, Ryan Jr SJ. Peripheral retinal neovascularization with chronic myelogenous leukemia. *Arch Ophthalmol* 1972;87:585-9.
- [291] Leveille AS, Morse PH. Platelet-induced retinal neovascularization in leukemia. *Am J Ophthalmol* 1981;91:640-3.
- [292] Little HL. The role of abnormal hemorrheodynamics in the pathogenesis of diabetic retinopathy. *Trans Am Ophthalmol Soc* 1976;74:573-636.
- [293] Morse PH, McCready JL. Peripheral retinal neovascularization in chronic myelocytic leukemia. *Am J Ophthalmol* 1971;72:975-8.
- [294] Hofman P, Le Tourneau A, Negre F, et al. Primary uveal B immunoblastic lymphoma in a patient with AIDS. *Br J Ophthalmol* 1992;76:700-2.
- [295] Inkeles DM, Friedman AH. Retinal pigment epithelial degeneration, partial retinal atrophy and macular hole in acute lymphocytic leukemia. *Albrecht von Graefes Arch Clin Exp Ophthalmol* 1975;194:253-61.
- [296] Verbraak FD, van den Berg W, Bos PJM. Retinal pigment epitheliopathy in acute leukemia. *Am J Ophthalmol* 1991;111:111-3.
- [297] Brown DM, Kimura AE, Ossoinig KC, et al. Acute promyelocytic infiltration of the optic nerve treated by oral trans-retinoic acid. *Ophthalmology* 1992;99:1463-7.
- [298] Ellis W, Little HL. Leukemic infiltration of the optic nerve head. *Am J Ophthalmol* 1973;75:867-71.
- [299] Horton JC, Garcia EG, Becker EK. Magnetic resonance imaging of leukemic invasion of the optic nerve. *Arch Ophthalmol* 1992;110:1207-8.
- [300] Nikaido H, Mishima H, Ono H, et al. Leukemic involvement of the optic nerve. *Am J Ophthalmol* 1988;105:294-8.
- [301] Zimmerman LE, Thoreson HT. Sudden loss of vision in acute leukemia; a clinicopathologic report of two unusual cases. *Surv Ophthalmol* 1964;9:467-73.
- [302] Rosenthal AR. Ocular manifestations of leukemia; a review. *Ophthalmology* 1983;90:899-905.
- [303] Badelon I, Chaîne G, Tolub O, et al. Occlusion de la veine et de l'artère centrale de la rétine par infiltration du nerf optique au cours d'une leucémie aigue lymphoblastique. *Bull Soc Ophthalmol Fr* 1986;86:261-4.
- [304] Currie JN, Lessell S, Lessell IM, et al. Optic neuropathy in chronic lymphocytic leukemia. *Arch Ophthalmol* 1988;106:654-60.
- [305] Johnston SS, Ware CF. Iris involvement in leukaemia. *Br J Ophthalmol* 1973;57:320-4.
- [306] Glaser B, Smith JL. Leukaemic glaucoma. *Br J Ophthalmol* 1966;50:92-4.
- [307] Gass JDM, Sever RJ, Grizzard WS, et al. Multifocal pigment epithelial detachments by reticulum cell sarcoma; a characteristic fundoscopic picture. *Retina* 1984;4:135-43.
- [308] Chan CC, Gonzales JA, Hidayat AA. Intraocular lymphoproliferations simulating uveitis. In: Albert DM, Miller JW, editors. *Principles and practice of ophthalmology*, 3rd ed. New York: Saunders-Elsevier; 2008. p. 1255-80.
- [309] Singh AD, Lewis H, Schachat AP, et al. Lymphoma of the retina and CNS. In: Singh AD, Damato BE, Pe'er J, editors. *Clinical ophthalmic oncology*. Philadelphia: Saunders-Elsevier; 2007. p. 372-7.
- [310] Bardenstein DS. Intraocular lymphoma. *Cancer Control* 1998; 5:317-25.
- [311] Eby NL, Grufferman S, Flannelly CM, et al. Increasing incidence of primary brain lymphoma in the US. *Cancer* 1988;62:2461-5.
- [312] Corn BW, Marcus SM, Topham A, et al. Will primary central nervous system lymphoma be the most frequent brain tumor diagnosed in the year 2000? *Cancer* 1997;79:2409-13.
- [313] Schabet M. Epidemiology of primary CNS lymphoma. *J Neurooncol* 1999;43:199-201.
- [314] Deangelis LM, Hormigo A. Treatment of primary central nervous system lymphoma. *Semin Oncol* 2004;31:684-92.
- [315] Peterson K, Gordon KB, Heinemann MH, et al. The clinical spectrum of ocular lymphoma. *Cancer* 1993;72:843-9.
- [316] Akpek EK, Ahmed I, Hochberg FH, et al. Intraocular-central nervous system lymphoma: clinical features, diagnosis, and outcomes. *Ophthalmology* 1999;106:1805-10.
- [317] Rockwood EJ, Zakov ZN, Bay JW. Combined malignant lymphoma of the eye and CNS (reticulum-cell sarcoma). Report of three cases. *J Neurosurg* 1984;61:369-74.
- [318] Chan CC. Primary intraocular lymphoma: clinical features, diagnosis, and treatment. *Clin Lymphoma* 2003;4:30-1.
- [319] Wender A, Adar A, Maor E, et al. Primary B-cell lymphoma of the eyes and brain in a 3-year-old boy. *Arch Ophthalmol* 1994;112:450-1.
- [320] Givner I. Malignant lymphoma with ocular involvement; a clinico-pathologic report. *Am J Ophthalmol* 1955;39:29-32.
- [321] Goder G, Klein S, Königsdörffer E. Klinische und pathologische Besonderheiten des malignen Lymphoms der Netzhaut. *Klin Monatsbl Augenheilkd* 1990;197:514-8.
- [322] Gass JDM, Trattler HL. Retinal artery obstruction and atheromas associated with non-Hodgkin's large cell lymphoma (reticulum cell sarcoma). *Arch Ophthalmol* 1991;109:1134-9.
- [323] Ridley ME, McDonald HR, Sternberg Jr P, et al. Retinal manifestations of ocular lymphoma (reticulum cell sarcoma). *Ophthalmology* 1992;99:1153-61.
- [324] Gray RS, Abrahams JJ, Hufnagel TJ, et al. Ghost-cell tumor of the optic chiasm; primary CNS lymphoma. *J Clin Neuro-Ophthalmol* 1989;9:98-104.
- [325] Guyer DR, Green WR, Schachat AP, et al. Bilateral ischemic optic neuropathy and retinal vascular occlusions associated with lymphoma and sepsis; clinicopathologic correlation. *Ophthalmology* 1990;97:882-8.
- [326] Kattah JC, Suski ET, Killen JY, et al. Optic neuritis and systemic lymphoma. *Am J Ophthalmol* 1980;89:431-6.
- [327] Lang GK, Surer JL, Green WR, et al. Ocular reticulum cell sarcoma; clinicopathologic correlation of a case with multifocal lesions. *Retina* 1985;5:79-86.
- [328] Margolis L, Fraser R, Lichter A, et al. The role of radiation therapy in the management of ocular reticulum cell sarcoma. *Cancer* 1980;45:688-92.
- [329] Whitecup SM, de Smet MD, Rubin BI, et al. Intraocular lymphoma; clinical and histopathologic diagnosis. *Ophthalmology* 1993;100:1399-406.
- [330] Blumenkranz MS, Ward T, Murphy S, et al. Applications and limitations of vitreoretinal biopsy techniques in intraocular large cell lymphoma. *Retina* 1992;12(Suppl.):S64-70.
- [331] Char DH, Ljung B-M, Deschenes J, et al. Intraocular lymphoma: immunological and cytological analysis. *Br J Ophthalmol* 1988;72:905-11.
- [332] Kaplan HJ, Meredith TA, Aaberg TM, et al. Reclassification of intraocular reticulum cell sarcoma (histiocytic lymphoma); immunologic characterization of vitreous cells. *Arch Ophthalmol* 1980;98:707-10.
- [333] Kennerdell JS, Johnson BL, Wisotzkey HM. Vitreous cellular

- reaction; association with reticulum cell sarcoma of brain. *Arch Ophthalmol* 1975;93:1341-5.
- [334] Michels RG, Knox DL, Erozan YS, et al. Intraocular reticulum cell sarcoma; diagnosis by pars plana vitrectomy. *Arch Ophthalmol* 1975;93:1331-5.
- [335] Michelson JB, Michelson PE, Bordin GM, et al. Ocular reticulum cell sarcoma; presentation as retinal detachment with demonstration of monoclonal immunoglobulin light chains on the vitreous cells. *Arch Ophthalmol* 1981;99:1409-11.
- [336] Minckler DS, Font RL, Zimmerman LE. Uveitis and reticulum cell sarcoma of brain with bilateral neoplastic seeding of vitreous without retinal or uveal involvement. *Am J Ophthalmol* 1975;80:433-9.
- [337] Parver LM, Font RL. Malignant lymphoma of the retina and brain; initial diagnosis by cytologic examination of vitreous aspirate. *Arch Ophthalmol* 1979;97:1505-7.
- [338] Kirmani MH, Thomas EL, Rao NA, et al. Intraocular reticulum cell sarcoma: diagnosis by choroidal biopsy. *Br J Ophthalmol* 1987;71:748-52.
- [339] DeAngelis LM. Primary central nervous system lymphoma: a new clinical challenge. *Neurology* 1991;41:619-21.
- [340] Neuwelt EA, Frenkel EP, Gumerlock MK, et al. Developments in the diagnosis and treatment of primary CNS lymphoma; a prospective series. *Cancer* 1986;58:1609-20.
- [341] Wilson DJ, Brazier R, Rosenbaum JT. Intraocular lymphoma; immunopathologic analysis of vitreous biopsy specimens. *Arch Ophthalmol* 1992;110:1455-8.
- [342] White VA, Gascoyne RD, Paton KE. Use of the polymerase chain reaction to detect B- and T-cell gene rearrangements in vitreous specimens from patients with intraocular lymphoma. *Arch Ophthalmol* 1999;117:761-5.
- [343] Coupland SE, Bechrakis NE, Anastassiou G, et al. Evaluation of vitrectomy specimens and chorioretinal biopsies in the diagnosis of primary intraocular lymphoma in patients with Masquerade syndrome. *Graefes Arch Clin Exp Ophthalmol* 2003;241:860-70.
- [344] Chan CC, Whitcup SM, Solomon D, et al. Interleukin-10 in the vitreous of patients with primary intraocular lymphoma. *Am J Ophthalmol* 1995;120:671-3.
- [345] Barr CC, Green WR, Payne JW, et al. Intraocular reticulum-cell sarcoma: clinicopathologic study of four cases and review of the literature. *Surv Ophthalmol* 1975;19:224-39.
- [346] Vogel MH, Font RL, Zimmerman LE, et al. Reticulum cell sarcoma of the retina and uvea; report of six cases and review of the literature. *Am J Ophthalmol* 1968;66:205-15.
- [347] Batchelor TT, Kolak G, Ciordia R, et al. High-dose methotrexate for intraocular lymphoma. *Clin Cancer Res* 2003;9:711-5.
- [348] Frenkel S, Hendler K, Siegal T, et al. Intravitreal methotrexate for treating vitreoretinal lymphoma: 10 years of experience. *Br J Ophthalmol* 2008;92:383-8.
- [349] Itty S, Pulido JS. Rituximab for intraocular lymphoma. *Retina* 2009;29:129-32.
- [350] Yeh S, Wilson DJ. Combination intravitreal rituximab and methotrexate for massive subretinal lymphoma. *Eye (Lond)* 2010;24:1625-7.
- [351] Sandor V, Stark-Vancs V, Pearson D, et al. Phase II trial of chemotherapy alone for primary CNS and intraocular lymphoma. *J Clin Oncol* 1998;16:3000-6.
- [352] Hormigo A, DeAngelis LM. Primary ocular lymphoma: clinical features, diagnosis, and treatment. *Clin Lymphoma* 2003;4:22-9.
- [353] Ahluwalia MS, Peereboom DM. Primary Central Nervous System Lymphoma. *Curr Treat Options Neurol* 2010;12:347-59.
- [354] Galor A, Ference SJ, Singh AD, et al. Maculopathy as a complication of blood-brain barrier disruption in patients with central nervous system lymphoma. *Am J Ophthalmol* 2007;144:45-9.
- [355] Angelov L, Doolittle ND, Kraemer DF, et al. Blood-brain barrier disruption and intra-arterial methotrexate-based therapy for newly diagnosed primary CNS lymphoma: a multi-institutional experience. *J Clin Oncol* 2009;27:3503-9.
- [356] Kohno T, Uchida H, Inomata H, et al. Ocular manifestations of adult T-cell leukemia/lymphoma; a clinicopathologic study. *Ophthalmology* 1993;100:1794-9.
- [357] Kumar SR, Gill PS, Wagner DG, et al. Human T-cell lymphotropic virus type I-associated retinal lymphoma; a clinicopathologic report. *Arch Ophthalmol* 1994;112:954-9.
- [358] Kumar SR, Gill PS, Wagner DG, et al. Human T-cell lymphotropic virus type I-associated retinal lymphoma. A clinicopathologic report. *Arch Ophthalmol* 1994;112:954-9.
- [359] Merle H, Donnio A, Gonin C, et al. Retinal vasculitis caused by adult T-cell leukemia/lymphoma. *Jpn J Ophthalmol* 2005;49:41-5.
- [360] Levy-Clarke GA, Buggage RR, Shen D, et al. Human T-cell lymphotropic virus type-1 associated t-cell leukemia/lymphoma masquerading as necrotizing retinal vasculitis. *Ophthalmology* 2002;109:1717-22.
- [361] Brown SM, Jampol LM, Cantrill HL. Intraocular lymphoma presenting as retinal vasculitis. *Surv Ophthalmol* 1994;39:133-40.
- [362] Hogan MJ, editor. A case of intraocular mycosis fungoides. Read before the Verhoeff Society meeting, April 11, 1972, Washington, DC.
- [363] Keltner JL, Fritsch E, Cykiert RC, et al. Mycosis fungoides; intraocular and central nervous system involvement. *Arch Ophthalmol* 1977;95:645-50.
- [364] Wolter JR, Leenhouts TM, Hendrix RC. Corneal involvement in mycosis fungoides. *Am J Ophthalmol* 1963;55:317-22.
- [365] Cook Jr. BE, Bartley GB, Pittelkow MR. Ophthalmic abnormalities in patients with cutaneous T-cell lymphoma. *Ophthalmology* 1999;106:1339-44.
- [366] Ralli M, Goldman JW, Lee E, et al. Intraocular involvement of mycosis fungoides. *Arch Ophthalmol* 2009;127:343-5.
- [367] Leitch RJ, Rennie IG, Parsons MA. Ocular involvement in mycosis fungoides. *Br J Ophthalmol* 1993;77:126-7.
- [368] Foerster HC. Mycosis fungoides with intraocular involvement. *Trans Am Acad Ophthalmol Otolaryngol* 1960;64:308-13.
- [369] Gärtner J. Mycosis fungoides mit Beteiligung der Aderhaut. *Klin Monatsbl Augenheilkd* 1957;131:61-9.
- [370] Erny BC, Egbert PR, Peat IM, et al. Intraocular involvement with subretinal pigment epithelium infiltrates by mycosis fungoides. *Br J Ophthalmol* 1991;75:698-701.
- [371] Lewis RA, Clark RB. Infiltrative retinopathy in systemic lymphoma. *Am J Ophthalmol* 1975;79:48-52.
- [372] Clarke E. Ophthalmological complications of multiple myelomatosis. *Br J Ophthalmol* 1955;39:233-6.
- [373] Gudas Jr. PP. Optic nerve myeloma. *Am J Ophthalmol* 1971;71:1085-9.
- [374] Langdon HM. Multiple myeloma with bilateral sixth nerve paralysis and left retrobulbar neuritis. *Trans Am Ophthalmol Soc* 1939;37:223-8.
- [375] Shields CL, Chong WH, Ehya H, et al. Sequential bilateral solitary extramedullary plasmacytoma of the ciliary body. *Cornea* 2007;26:759-61.
- [376] Palamar M, Shields CL, Ghassemi F, et al. Choroidal plasmacytoma in a patient with multiple myeloma. Diagnosis by fine-needle aspiration biopsy. *Graefes Arch Clin Exp Ophthalmol* 2008;246:1195-7.
- [377] Chan TY, Hodge WG. Vitritis and retinal vasculitis as presenting

- signs of monoclonal gammopathy of unknown significance with progression to multiple myeloma. *Can J Ophthalmol* 2010;45:82-3.
- [378] Omoti CE, Omoti AE. Richter syndrome: a review of clinical, ocular, neurological and other manifestations. *Br J Haematol* 2008;142:709-16.
- [379] Hattenhauer MG, Pach JM. Ocular lymphoma in a patient with chronic lymphocytic leukemia. *Am J Ophthalmol* 1996;122:266-8.
- [380] Antle CM, White VA, Horsman DE, et al. Large cell orbital lymphoma in a patient with acquired immune deficiency syndrome; case report and review. *Ophthalmology* 1990;97:1494-8.
- [381] Al-Hazzaa SAF, Green WR, Mann RB. Uveal involvement in systemic angiotropic large cell lymphoma; microscopic and immunohistochemical studies. *Ophthalmology* 1993;100:961-5.
- [382] Elner VM, Hidayat AA, Charles NC, et al. Neoplastic angioendotheliomatosis; a variant of malignant lymphoma immunohistochemical and ultrastructural observations of three cases. *Ophthalmology* 1986;93:1237-45.
- [383] Katzenstein AL, Doxtader E, Narendra S. Lymphomatoid granulomatosis: insights gained over 4 decades. *Am J Surg Pathol* 2010;34:e35-48.
- [384] Tse DT, Mandelbaum S, Chuck DA, et al. Lymphomatoid granulomatosis with ocular involvement. *Retina* 1985;5:94-7.
- [385] Kinyoun LJ, Kalina RE, Klein ML. Choroidal involvement in systemic necrotizing vasculitis. *Arch Ophthalmol* 1987;105:939-42.
- [386] Cameron JR, Cackett P. Lymphomatoid granulomatosis associated with bilateral exudative retinal detachments. *Arch Ophthalmol* 2007;125:712-3.
- [387] Ziemianski MC, Godfrey WA, Lee KY, et al. Lymphoma of the vitreous associated with renal transplantation and immunosuppressive therapy. *Ophthalmology* 1980;87:596-601.
- [388] Kheterpal S, Kirkby GR, Neuberger JM, et al. Intraocular lymphoma after liver transplantation. *Am J Ophthalmol* 1993;116:507-8.
- [389] Demols PF, Cochaux PM, Velu T, et al. Chorioretinal post-transplant lymphoproliferative disorder induced by the Epstein-Barr virus. *Br J Ophthalmol* 2001;85:93-5.
- [390] Duke JR, Walsh FB. Metastatic carcinoma to the retina. *Am J Ophthalmol* 1959;47:44-8.
- [391] Flindall RJ, Fleming KO. Metastatic tumour of the retina. *Can J Ophthalmol* 1967;2:130-2.
- [392] Kennedy RJ, Rummel WD, McCarthy JL, et al. Metastatic carcinoma of the retina; report of a case and the pathologic findings. *Arch Ophthalmol* 1958;60:12-18.
- [393] Klein R, Nicholson DH, Luxenberg MN. Retinal metastasis from squamous cell carcinoma of the lung. *Am J Ophthalmol* 1977;83:358-61.
- [394] Koenig RP, Johnson DL, Monahan RH. Bronchogenic carcinoma with metastases to the retina. *Am J Ophthalmol* 1963;56:827-9.
- [395] Levy RM, de Venecia G. Trypsin digest study of retinal metastasis and tumor cell emboli. *Am J Ophthalmol* 1970;70:778-82.
- [396] Leys AM, Van Eyck LM, Nuttin BJ, et al. Metastatic carcinoma to the retina; clinicopathologic findings in two cases. *Arch Ophthalmol* 1990;108:1448-52.
- [397] Smoleroff JW, Agatston SA. Metastatic carcinoma of the retina; report of a case, with pathologic observations. *Arch Ophthalmol* 1934;12:359-65.
- [398] Striebel-Gerecke SU, Messmer EP, Landolt U. Retinale and vitreale Metastase eines kleinzelligen Bronchuskarzinoms. *Klin Monatsbl Augenheilkd* 1992;20:535-6.
- [399] Tachinami K, Katayama T, Takeda N, et al. A case of metastatic carcinoma to the retina. *Acta Soc Ophthalmol Jpn* 1992;96:1336-40.
- [400] Takagi T, Yamaguchi T, Mizoguchi T, et al. A case of metastatic optic nerve head and retinal carcinoma with vitreous seeds. *Ophthalmologica* 1989;199:123-6.
- [401] Uhler EM. Metastatic malignant melanoma of the retina. *Am J Ophthalmol* 1940;23:158-62.
- [402] Young SE, Cruciger M, Lukeman J. Metastatic carcinoma to the retina: case report. *Ophthalmology* 1979;86:1350-4.
- [403] Font RL, Naumann G, Zimmerman LE. Primary malignant melanoma of the skin metastatic to the eye and orbit; report of ten cases and review of the literature. *Am J Ophthalmol* 1967;63:738-54.
- [404] Letson AD, Davidorf FH. Bilateral retinal metastases from cutaneous malignant melanoma. *Arch Ophthalmol* 1982;100:605-7.
- [405] Piro P, Pappas HR, Erozan YS, et al. Diagnostic vitrectomy in metastatic breast carcinoma in the vitreous. *Retina* 1982;2:182-8.
- [406] De Bustros S, Augsburger JJ, Shields JA, et al. Intraocular metastases from cutaneous malignant melanoma. *Arch Ophthalmol* 1985;103:937-40.
- [407] Liddicoat DA, Wolter JR, Wilkinson WC. Retinal metastasis of malignant melanoblastoma; a case report. *Am J Ophthalmol* 1959;48:172-7.
- [408] Pollock SC, Awh CC, Dutton JJ. Cutaneous melanoma metastatic to the optic disc and vitreous. *Arch Ophthalmol* 1991;109:1352-4.
- [409] Riffenburgh RS. Metastatic malignant melanoma to the retina. *Arch Ophthalmol* 1961;66:487-9.
- [410] Robertson DM, Wilkinson CP, Murray JL, et al. Metastatic tumor to the retina and vitreous cavity from primary melanoma of the skin; treatment with systemic and subconjunctival chemotherapy. *Ophthalmology* 1981;88:1296-301.
- [411] Friedman AH. Discussion of three papers. *Ophthalmology* 1979;86:1355-8.
- [412] Buchanan TAS, Gardiner TA, Archer DB. An ultrastructural study of retinal photoreceptor degeneration associated with bronchial carcinoma. *Am J Ophthalmol* 1984;97:277-87.
- [413] Cogan DG, Kuwabara T, Currie J, et al. Paraneoplastische Retinopathie unter dem klinischen Bild einer Zapfendystrophie mit Achromatopsie. *Klin Monatsbl Augenheilkd* 1990;197:156-8.
- [414] Grunwald GB, Klein R, Simmonds MA, et al. Autoimmune basis for visual paraneoplastic syndrome in patients with small-cell lung carcinoma. *Lancet* 1985;1:658-61.
- [415] Grunwald GB, Kornguth SC, Towfighi J, et al. Autoimmune basis for visual paraneoplastic syndrome in patients with small cell lung carcinoma; retinal immune deposits and ablation of retinal ganglion cells. *Cancer* 1987;60:780-6.
- [416] Jacobson DM, Thirkill CE, Tipping SJ. A clinical triad to diagnose paraneoplastic retinopathy. *Ann Neurol* 1990;28:162-7.
- [417] Keltner JL, Roth AM, Chang RS. Photoreceptor degeneration; possible autoimmune disorder. *Arch Ophthalmol* 1983;101:564-9.
- [418] Klingele TG, Burde RM, Rappazzo JA, et al. Paraneoplastic retinopathy. *J Clin Neuro-Ophthalmol* 1984;4:239-45.
- [419] Kornguth SE, Kalinke T, Grunwald GB, et al. Anti-neurofilament antibodies in the sera of patients with small cell carcinoma of the lung and with paraneoplastic syndrome. *Cancer Res* 1986;46:2588-95.
- [420] Matsui Y, Mehta MC, Katsumi O, et al. Electrophysiological findings in paraneoplastic retinopathy. *Graefes Arch Clin Exp Ophthalmol* 1992;230:324-8.
- [421] Rizzo III JF, Gittinger Jr. JW. Selective immunohistochemical

- staining in the paraneoplastic retinopathy syndrome. *Ophthalmology* 1992;99:1286–95.
- [422] Sawyer RA, Selhorst JB, Zimmerman LE, et al. Blindness caused by photoreceptor degeneration as a remote effect of cancer. *Am J Ophthalmol* 1976;81:606–13.
- [423] Thirkill CE, FitzGerald P, Sergott RC, et al. Cancer-associated retinopathy (CAR syndrome) with antibodies reacting with retinal, optic-nerve, and cancer cells. *N Engl J Med* 1989;321:1589–94.
- [424] Van Der Pol BAE, Planten JT. A non-metastatic remote effect of lung carcinoma. *Doc Ophthalmol* 1987;67:89–94.
- [425] Thirkill CE. Cancer-induced, immune-mediated ocular degenerations. *Ocul Immunol Inflamm* 2005;13:119–31.
- [426] Thirkill CE, Roth AM, Keltner JR. Cancer-associated retinopathy. *Arch Ophthalmol* 1987;105:372–5.
- [427] Thirkill CE, Keltner JL, Tyler NK, et al. Antibody reactions with retina and cancer-associated antigens in 10 patients with cancer-associated retinopathy. *Arch Ophthalmol* 1993;111:931–7.
- [428] Thirkill CE, Tait RC, Tyler NK, et al. Intraperitoneal cultivation of small-cell carcinoma induces expression of the retinal cancer-associated retinopathy antigen. *Arch Ophthalmol* 1993;111:974–8.
- [429] Keltner JL, Thirkill CE, Tyler NK, et al. Management and monitoring of cancer-associated retinopathy. *Arch Ophthalmol* 1992;110:48–53.
- [430] Brain RL, Norris Jr. FH. The remote effects of cancer on the nervous system. New York: Grune & Stratton; 1965. p. 24.
- [431] Malik S, Furlan AJ, Sweeney PJ, et al. Optic neuropathy: a rare paraneoplastic syndrome. *J Clin Neuro-Ophthalmol* 1992;12:137–41.
- [432] Albert DM, Sober AJ, Fitzpatrick TB. Iritis in patients with cutaneous melanoma and vitiligo. *Arch Ophthalmol* 1978;96:2081–4.
- [433] Berson EL, Lessell S. Paraneoplastic night blindness with malignant melanoma. *Am J Ophthalmol* 1988;106:307–11.
- [434] Gass JDM. Acute Vogt–Koyanagi–Harada-like syndrome occurring in a patient with metastatic cutaneous melanoma. In: Saari KM, editors. *Uveitis update: proceedings of the First International Symposium on Uveitis held in Hanasaari, Espoo, Finland on May 16–19, 1984*. Amsterdam: Excerpta Medica; 1984, p. 407–408.
- [435] Hertz KC, Gazze LA, Kirkpatrick CH, et al. Autoimmune vitiligo; detection of antibodies to melanin-producing cells. *N Engl J Med* 1977;297:634–7.
- [436] Rush JA. Paraneoplastic retinopathy in malignant melanoma. *Am J Ophthalmol* 1993;115:390–1.
- [437] Weinstein JM, Kelman SE, Bresnick GH, et al. Paraneoplastic retinopathy associated with antiretinal bipolar cell antibodies in cutaneous malignant melanoma. *Ophthalmology* 1994;101:1236–43.
- [438] Donaldson RC, Canaan Jr SA, McLean RB, et al. Uveitis and vitiligo associated with BCG treatment for malignant melanoma. *Surgery* 1974;76:771–8.
- [439] Singh AD, Milam AH, Shields CL, et al. Melanoma-associated retinopathy. *Am J Ophthalmol* 1995;119:369–70.
- [440] Milam AH, Saari JC, Jacobson SG, et al. Autoantibodies against retinal bipolar cells in cutaneous melanoma-associated retinopathy. *Invest Ophthalmol Vis Sci* 1993;34:91–100.
- [441] Keltner JL, Thirkill CE, Yip PT. Clinical and immunologic characteristics of melanoma-associated retinopathy syndrome: eleven new cases and a review of 51 previously published cases. *J NeuroOphthalmol* 2001;21:173–87.
- [442] Duke-Elder S. *System of ophthalmology*, vol. 9. Diseases of the uveal tract. St. Louis: CV Mosby; 1966. p. 373.
- [443] Gass JDM. Vitiliginous chorioretinitis. *Arch Ophthalmol* 1981;99:1778–87.
- [444] Sotodeh M, Paridaens D, Keunen J, et al. Paraneoplastic vitelliform retinopathy associated with cutaneous or uveal melanoma and metastases. *Klin Monbl Augenheilkd* 2005;222:910–4.
- [445] Eksandh L, Adamus G, Mosgrove L, et al. Autoantibodies against bestrophin in a patient with vitelliform paraneoplastic retinopathy and a metastatic choroidal malignant melanoma. *Arch Ophthalmol* 2008;126:432–5.
- [446] Borkowski LM, Grover S, Fishman GA, et al. Retinal findings in melanoma-associated retinopathy. *Am J Ophthalmol* 2001;132:273–5.
- [447] Palmowski AM, Haus AH, Pfohler C, et al. Bilateral multifocal chorioretinopathy in a woman with cutaneous malignant melanoma. *Arch Ophthalmol* 2002;120:1756–61.
- [448] Jampol LM, Kim HH, Bryar PJ, et al. Multiple serous retinal detachments and subretinal deposits as the presenting signs of metastatic melanoma. *Retina* 2004;24:320–2.
- [449] Zacks DN, Pinnolis MK, Berson EL, et al. Melanoma-associated retinopathy and recurrent exudative retinal detachments in a patient with choroidal melanoma. *Am J Ophthalmol* 2001;132:578–81.
- [450] Abramson DH, Dunkel IJ, Brodie SE, et al. Bilateral superselective ophthalmic artery chemotherapy for bilateral retinoblastoma: tandem therapy. *Arch Ophthalmol* 2010;128:370–2.
- [451] Ramsay RC, Kinyoun JL, Hill CW, et al. Retinal astrocytoma. *Am J Ophthalmol* 1979;88:32–6.
- [455] Retsas C, Sarks J, Shanahan L. [Retinal angiomatosis in association with Stargardt’s disease. A case report.] *J Fr Ophthalmol* 1989;12:857–62.
- [456] Hood CT, Janku L, Lowder CY, et al. Retinal vasoproliferative tumor in association with neurofibromatosis type 1. *J Pediatr Ophthalmol Strabismus* 2009 Jun;25:1–3.
- [457] Gass JDM, Weleber RG, Johnson DR. Non-Hodgkin’s lymphoma causing fundus picture simulating fundus flavimaculatus. *Retina* 1987;7:209–14.
- [458] Robertson DM, Wilkinson CP, Murray JL, et al. Metastatic tumor to the retina and vitreous cavity from primary melanoma of the skin: treatment with systemic and subconjunctival chemotherapy. *Ophthalmology* 1981;88:1296–301.



## 第 14 章

- [1] Zimmerman LE. Melanocytes, melanocytic nevi, and melanocytomas. *Invest Ophthalmol* 1965;4:11-41.
- [2] Gass JDM. Problems in the differential diagnosis of choroidal nevi and malignant melanomas. *Am J Ophthalmol* 1977;83:299-323.
- [3] Sumich P, Mitchell P, Wang JJ. Choroidal nevi in a white population: the Blue Mountains Eye Study. *Arch Ophthalmol* 1998;116:645-50.
- [4] Reese AB. *Tumors of the eye*. New York: Paul B. Hoeber; 1951. p. 277.
- [5] Singh AD, Kalyani P, Topham A. Estimating the risk of malignant transformation of a choroidal nevus. *Ophthalmology* 2005;112:1784-9.
- [6] Deutsch TA, Jampol LM. Large druse-like lesions on the surface of choroidal nevi. *Ophthalmology* 1985;92:73-6.
- [7] Erie JC, Robertson DM, Mieler WF. Presumed small choroidal melanomas with serous macular detachments with and without surface laser photocoagulation treatment. *Am J Ophthalmol* 1990;109:259-64.
- [8] Folk JC, Weingeist TA, Coonan P, et al. The treatment of serous macular detachment secondary to choroidal melanomas and nevi. *Ophthalmology* 1989;96:547-51.
- [9] Gass JDM. *Differential diagnosis of intraocular tumors; a stereoscopic presentation*. St. Louis: CV Mosby; 1974. pp. 59-111.
- [10] Gass JDM. Pathogenesis of disciform detachment of the neuroepithelium. VI. Disciform detachment secondary to hereditary degenerative, neoplastic and traumatic lesions of the choroid. *Am J Ophthalmol* 1967;63:689-711.
- [11] Gonder JR, Augsburger JJ, McCarthy EF, et al. Visual loss associated with choroidal nevi. *Ophthalmology* 1982;89:961-5.
- [12] Pro M, Shields JA, Tomer TL. Serous detachment of the macula associated with presumed choroidal nevi. *Arch Ophthalmol* 1978;96:1374-7.
- [13] Slusher MM, Weaver RG. Presumed choroidal naevi and sensory retinal detachment. *Br J Ophthalmol* 1977;61:414-6.
- [14] Snip RC, Green WR, Jaegers KR. Choroidal nevus with subretinal pigment epithelial neovascular membrane and a positive P-32 test. *Ophthalmic Surg* 1978;9:35-42.
- [15] Waltman DD, Gitter KA, Yannuzzi L, et al. Choroidal neovascularization associated with choroidal nevi. *Am J Ophthalmol* 1978;85:704-10.
- [16] Gass JDM. Observation of suspected choroidal and ciliary body melanomas for evidence of growth prior to enucleation. *Ophthalmology* 1980;87:523-8.
- [17] Callanan DG, Lewis ML, Byrne SF, et al. Choroidal neovascularization associated with choroidal nevi. *Arch Ophthalmol* 1993;111:789-94.
- [18] Gass JDM. Fluorescein angiography; an aid in the differential diagnosis of intraocular tumors. *Int Ophthalmol Clin* 1972; 12:85-120.
- [19] Singh AD, Belfort RN, Sayanagi K, et al. Fourier domain optical coherence tomographic and auto-fluorescence findings in indeterminate choroidal melanocytic lesions. *Br J Ophthalmol* 2010;94:474-8.
- [20] Gosbell AD, Barry WR, Favilla I, et al. Volume measurement of intraocular tumours by cross-sectional ultrasonographic scans. *Aust NZ J Ophthalmol* 1991;19:327-33.
- [21] Gass JDM. Comparison of uveal melanoma growth rates with mitotic index and mortality. *Arch Ophthalmol* 1985;103:924-31.
- [22] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 40.
- [23] MacIlwaine IV WA, Anderson Jr B, Klintworth GK. Enlargement of histologically documented choroidal nevus. *Am J Ophthalmol* 1979;87:480-6.
- [24] Mansour AM, Zimmerman L, La Piana FG, et al. Clinicopathological findings in a growing optic nerve melanocytoma. *Br J Ophthalmol* 1989;73:410-5.
- [25] Daicker B. Der 46 jährige Verlauf eines maligne entarteten Aderhautnaevus mit vaskularisierten Flächendrusen. *Klin Monstbl Augenheilkd* 1991;198:442-4.
- [26] Rubin ML. Disciform lesion overlying melanocytoma simulating progression of choroidal melanoma. *Trans Am Ophthalmol Soc* 1976;74:282-94.
- [27] Gass JDM, Wilkinson CP. Follow-up study of presumed ocular histoplasmosis. *Trans Am Acad Ophthalmol Otolaryngol* 1972;76:672-94.
- [28] Mines JA, Freilich DB, Friedman AH, et al. Choroidal (subretinal) neovascularization secondary to choroidal nevus and successful treatment with argon laser photocoagulation; case reports and review of literature. *Ophthalmologica* 1985;190:210-8.
- [29] Butler P, Char DH, Zarbin M, et al. Natural history of indeterminate pigmented choroidal tumors. *Ophthalmology* 1994;101:710-6.
- [30] Parodi MB, Boscica F, Piermarocchi S, et al. Variable outcome of photodynamic therapy for choroidal neovascularization associated with choroidal nevus. *Retina* 2005;25:438-42.
- [31] Parodi MB. Transpupillary thermotherapy for subfoveal choroidal neovascularization associated with choroidal nevus. *Am J Ophthalmol* 2004;138:1074-5.
- [32] Lauritzen K, Augsburger JJ, Timmes J. Vitreous seeding associated with melanocytoma of the optic disc. *Retina* 1990;10:60-2.
- [33] Shields JA, Shields CL, Eagle Jr RC, et al. Malignant melanoma associated with melanocytoma of the optic disc. *Ophthalmology* 1990;97:225-30.
- [34] Shields JA, Demirci H, Mashayekhi A, et al. Melanocytoma of optic disc in 115 cases: the 2004 Samuel Johnson Memorial Lecture. *Ophthalmology* 2004;111:1739-46.
- [35] Kovoora TA, Bahl D, Singh AD, et al. Bilateral isolated choroidal melanocytosis. *Br J Ophthalmol* 2008;92(892):1008.
- [36] Singh AD, De Potter P, Fijal BA, et al. Lifetime prevalence of uveal melanoma in white patients with oculo(dermal) melanocytosis. *Ophthalmology* 1998;105:195-8.
- [37] Infante de German-Ribon R, Singh AD, Arevalo JF, et al. Choroidal melanoma with oculodermal melanocytosis in Hispanic patients. *Am J Ophthalmol* 1999;128:251-3.
- [38] Shields JA, Font RL, Eagle Jr RC, et al. Melanotic schwannoma of the choroid; immunohistochemistry and electron microscopic observations. *Ophthalmology* 1994;101:843-9.
- [39] Huson S, Jones D, Beck L. Ophthalmic manifestations of neurofibromatosis. *Br J Ophthalmol* 1987;71:235-8.
- [40] Klein RM, Glassman L. Neurofibromatosis of the choroid. *Am J Ophthalmol* 1985;99:367-8.
- [41] Honavar SG, Singh AD, Shields CL, et al. Iris melanoma in a patient with neurofibromatosis. *Surv Ophthalmol* 2000;45:231-6.
- [42] Augsburger JJ, Schroeder RP, Territo C, et al. Clinical parameters predictive of enlargement of melanocytic choroidal lesions. *Br J Ophthalmol* 1989;73:911-7.
- [43] Anonymous. Factors predictive of growth and treatment of small choroidal melanoma: COMS Report No. 5. The Collaborative Ocular Melanoma Study Group. *Arch Ophthalmol*. 1997;115:1537-1544.
- [44] Heimler A, Fox JE, Hershey JE, et al. Sensorineural hearing loss, enamel hypoplasia, and nail abnormalities in sibs. *Am J Med*

- Genet 1991;39:192-5.
- [45] Singh AD, Schachat AP, Diener-West M, et al. Small choroidal melanoma. *Ophthalmology* 2008;115:2319-e3.
- [46] Shields CL, Demirci H, Materin MA, et al. Clinical factors in the identification of small choroidal melanoma. *Can J Ophthalmol* 2004;39:351-7.
- [47] Singh AD, Mokashi AA, Bena JF, et al. Small choroidal melanocytic lesions: features predictive of growth. *Ophthalmology* 2006;113:1032-9.
- [48] Mueller AJ, Freeman WR, Schaller UC, et al. Complex microcirculation patterns detected by confocal indocyanine green angiography predict time to growth of small choroidal melanocytic tumors: MuSIC Report II. *Ophthalmology* 2002;109:2207-14.
- [49] Singh AD, Bena JF, Mokashi AA, et al. Growth of small tumors. *Ophthalmology* 2006;113(1061):e1-4.
- [50] Kupfer C. Discussion: risk factors for growth and metastasis of small choroidal melanocytic lesions. *Trans Am Ophthalmol Soc* 1995;93:277-8.
- [51] Murray TG, Sobrin L. The case for observational management of suspected small choroidal melanoma. *Arch Ophthalmol* 2006;124:1342-4.
- [52] Shields JA. Treating some small melanocytic choroidal lesions without waiting for growth. *Arch Ophthalmol* 2006;124:1344-6.
- [53] Canny CLB, Shields JA, Kay ML. Clinically stationary choroidal melanoma with extraocular extension. *Arch Ophthalmol* 1978;96:436-9.
- [54] Friberg TR, Fineberg E, McQuaig S. Extremely rapid growth of a primary choroidal melanoma. *Arch Ophthalmol* 1983;101:1375-7.
- [55] Shields CL, Shields JA, Eagle Jr RC, et al. Uveal melanoma and pregnancy; a report of 16 cases. *Ophthalmology* 1991;98:1667-73.
- [56] Chong CA, Gregor RJ, Augsburger JJ, et al. Spontaneous regression of choroidal melanoma over 8 years. *Retina* 1989;9:136-8.
- [57] Lambert SR, Char DH, Howes Jr E, et al. Spontaneous regression of a choroidal melanoma. *Arch Ophthalmol* 1986;104:732-4.
- [58] Williams DF, Mieler WF, Lewandowski M. Resolution of an apparent choroidal melanoma. *Retina* 1989;9:131-5.
- [59] Dunn WJ, Lambert HM, Kincaid MC, et al. Choroidal malignant melanoma with early vitreous seeding. *Retina* 1988;8:188-92.
- [60] Pavan PR, Margo CE, Drucker M. Malignant melanoma of the choroid with vitreal seeding. *Arch Ophthalmol* 1989;107:130.
- [61] Yap E-Y, Robertson DM, Buettner H. Scleritis as an initial manifestation of choroidal malignant melanoma. *Ophthalmology* 1992;99:1693-7.
- [62] Augsburger JJ. Fine needle aspiration biopsy of suspected metastatic cancers to the posterior uvea. *Trans Am Ophthalmol Soc* 1988;86:499-560.
- [63] Char DH, Miller TR, Crawford JB. Cytopathologic diagnosis of benign lesions simulating choroidal melanomas. *Am J Ophthalmol* 1991;112:70-5.
- [64] Fastenberg DM, Finger PT, Chess Q, et al. Vitrectomy retinotomy aspiration biopsy of choroidal tumors. *Am J Ophthalmol* 1990;110:361-5.
- [65] Folberg R, Augsburger JJ, Gamel JW, et al. Fine-needle aspirates of uveal melanomas and prognosis. *Am J Ophthalmol* 1985;100:654-7.
- [66] Shields JA, Shields CL, Ehya H, et al. Fine-needle aspiration biopsy of suspected intraocular tumors. *Ophthalmology* 1993;100:1677-84.
- [67] Sassani JW, Blankenship G. Disciform choroidal melanoma. *Retina* 1993;14:177-80.
- [68] Brownstein S, Orton R, Jackson WB. Cystoid macular edema with equatorial choroidal melanoma. *Arch Ophthalmol* 1978;96:2105-7.
- [69] Gass JDM, Anderson DR, Davis EB. A clinical, fluorescein angiographic, and electron microscopic correlation of cystoid macular edema. *Am J Ophthalmol* 1985;100:82-6.
- [70] Osher RH, Abrams GW, Yarian D, et al. Varix of the vortex ampulla. *Am J Ophthalmol* 1981;92:653-60.
- [71] Gass JDM. Drusen and disciform macular detachment and degeneration. *Trans Am Ophthalmol Soc* 1972;70:409-36.
- [72] Chang M, Zimmerman LE, McLean I. The persisting pseudomelanoma problem. *Arch Ophthalmol* 1984;102:726-7.
- [73] Buettner H. Varix of the vortex ampulla simulating a choroidal melanoma. *Am J Ophthalmol* 1990;109:607-8.
- [74] Augsburger JJ, Coats TD, Lauritzen K. Localized suprachoroidal hematomas; ophthalmoscopic features, fluorescein angiography, and clinical course. *Arch Ophthalmol* 1990;108:968-72.
- [75] Augsburger JJ, Golden MI, Shields JA. Fluorescein angiography of choroidal malignant melanomas with retinal invasion. *Retina* 1984;4:232-41.
- [76] Farah ME, Byrne SF, Hughes JR. Standardized echography in uveal melanomas with scleral or extraocular extension. *Arch Ophthalmol* 1984;102:1482-5.
- [77] Davidorf FH, Chambers RB, Gresak P. False-positive magnetic resonance imaging of a metastatic carcinoma simulating a malignant melanoma. *Ann Ophthalmol* 1992;24:391-4.
- [78] Shammas HF, Burton TC, Weingeist TA. False-positive results with the radioactive phosphorus test. *Arch Ophthalmol* 1977;95:2190-2.
- [79] Zakov ZN, Smith TR, Albert DM. False-positive <sup>32</sup>P uptake tests. *Arch Ophthalmol* 1978;96:2240-3.
- [80] Augsburger JJ, Peyster RG, Markoe AM, et al. Computed tomography of posterior uveal melanomas. *Arch Ophthalmol* 1987;105:1512-6.
- [81] Bloom PA, Ferris JD, Laidlaw DA, et al. Magnetic resonance imaging: diverse appearances of uveal malignant melanomas. *Arch Ophthalmol* 1992;110:1105-11.
- [82] Lieb WE, Shields JA, Cohen SM, et al. Color Doppler imaging in the management of intraocular tumors. *Ophthalmology* 1990;97:1660-4.
- [83] Scheidler J, Leinsinger G, Kirsch C-M, et al. Immunoinaging of choroidal melanoma: assessment of its diagnostic accuracy and limitations in 101 cases. *Br J Ophthalmol* 1992;76:457-60.
- [84] Collaborative Ocular Melanoma Study Group. Accuracy of diagnosis of choroidal melanomas in the Collaborative Ocular Melanoma Study; COMS report no. 1. *Arch Ophthalmol* 1990;108:1268-73.
- [85] Donoso LA, Augsburger JJ, Shields JA, et al. Metastatic uveal melanoma; correlation between survival time and cytomorphometry of primary tumors. *Arch Ophthalmol* 1986;104:76-8.
- [86] Gamel JW, McLean IW. Computerized histopathologic assessment of malignant potential. II. A practical method for predicting survival following enucleation for uveal melanoma. *Cancer* 1983;52:1032-8.
- [87] McLean IW, Foster WD, Zimmerman LE. Prognostic factors in small malignant melanomas of choroid and ciliary body. *Arch Ophthalmol* 1977;95:48-58.
- [88] McLean IW, Foster WD, Zimmerman LE. Uveal melanoma: location, size, cell type, and enucleation as risk factors in metastasis. *Hum Pathol* 1982;13:123-32.
- [89] McLean IW, Foster WD, Zimmerman LE, et al. Modifications of Callender's classification of uveal melanoma at the Armed Forces Institute of Pathology. *Am J Ophthalmol* 1983;96:502-9.
- [90] McLean IW, Zimmerman LE, Evans RM. Reappraisal of Callender's spindle A type of malignant melanoma of choroid and ciliary body. *Am J Ophthalmol* 1978;86:557-64.
- [91] Damato BE. Management of patients with uveal melanoma. In: Singh AD, Damato BE, Pe'er J, editors. *Clinical ophthalmic*

- oncology. Philadelphia: Saunders-Elsevier; 2007. p. 226–31.
- [92] Singh AD, Topham A. Survival rates with uveal melanoma in the United States: 1973–1997. *Ophthalmology* 2003;110:962–5.
- [93] Turell ME, Sauntharajah Y, Triozzi PL, et al. Recent advances in prognostication for uveal melanoma. *Intl Ophthalmol* 2011. [in press.]
- [94] Bornfeld N, Prescher G, Horsthemke B, et al. Monosomy-3 is correlated with poor-risk factors in uveal malignant-melanoma. *Invest Ophth Vis Sci* 1995;36:S393.
- [95] Prescher G, Bornfeld N, Hirche H, et al. Prognostic implications of monosomy 3 in uveal melanoma. *Lancet* 1996;347:1222–5.
- [96] Patel KA, Edmondson ND, Talbot F, et al. Prediction of prognosis in patients with uveal melanoma using fluorescence in situ hybridisation. *Br J Ophthalmol* 2001;85:1440–4.
- [97] Tschentscher F, Husing J, Holter T, et al. Tumor classification based on gene expression profiling shows that uveal melanomas with and without monosomy 3 represent two distinct entities. *Cancer Res* 2003;63:2578–84.
- [98] Onken MD, Worley LA, Tuscan MD, et al. An accurate, clinically feasible multi-gene expression assay for predicting metastasis in uveal melanoma. *J Mol Diagn* 2010;12:461–8.
- [99] Midena E, Bonaldi L, Parrozzani R, et al. In vivo detection of monosomy 3 in eyes with medium-sized uveal melanoma using transscleral fine needle aspiration biopsy. *Eur J Ophthalmol* 2006;16:422–5.
- [100] Damato B, Duke C, Coupland SE, et al. Cytogenetics of uveal melanoma: a 7-year clinical experience. *Ophthalmology* 2007;114:1925–31.
- [101] [http://clinicaltrials.gov/ct2/show/NCT01100528?term=5 uveal 1 melanoma 1 dacarbazine&rank=5 1, #3095](http://clinicaltrials.gov/ct2/show/NCT01100528?term=5+uveal+1+melanoma+1+dacarbazine&rank=5+1,+3095). 2010.
- [102] Barr CC, Zimmerman LE, Curtin VT, et al. Bilateral diffuse melanocytic uveal tumors associated with systemic malignant neoplasms; a recently recognized syndrome. *Arch Ophthalmol* 1982;100:249–55.
- [103] Borruat FX, Othenin-Girard P, Uffer S, et al. Natural history of diffuse uveal melanocytic proliferation; case report. *Ophthalmology* 1992;99:1698–704.
- [104] de Wolff-Rouendall D. Bilateral diffuse benign melanocytic tumours of the uveal tract; a clinicopathological study. *Int Ophthalmol* 1985;7:149–60.
- [105] Filipic M, Ambler JS. Bilateral diffuse melanocytic uveal tumours associated with systemic malignant neoplasm. *Aust NZ J Ophthalmol* 1986;14:293–9.
- [106] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 3rd ed. St. Louis: CV Mosby; 1987. p. 276–7.
- [107] Gass JDM, Gieser RG, Wilkinson CT, et al. Bilateral diffuse uveal melanocytic proliferation in patients with occult carcinoma. *Arch Ophthalmol* 1990;108:527–33.
- [108] Gass JDM, Glatzer RJ. Acquired pigmentation simulating Peutz–Jeghers syndrome: initial manifestation of diffuse uveal melanocytic proliferation. *Br J Ophthalmol* 1991;75:693–5.
- [109] Leys AM, Dierick HG, Sciôt RM. Early lesions of bilateral diffuse melanocytic proliferation. *Arch Ophthalmol* 1991;109:1590–4.
- [110] Machemer R. Zur Pathogenese des flächenhaften malignen Melanoms. *Klin Monatsbl Augenheilkd* 1966;148:641–52.
- [111] Margo CE, Pavan PR, Gendelman D, et al. Bilateral melanocytic uveal tumors associated with systemic non-ocular malignancy; malignant melanomas or benign paraneoplastic syndrome? *Retina* 1987;7:137–41.
- [112] Mullaney J, Mooney D, O'Connor M, et al. Bilateral ovarian carcinoma with bilateral melanoma. *Br J Ophthalmol* 1984;68:261–7.
- [113] Prause JU, Jensen OA, Eisgart F, et al. Bilateral diffuse malignant melanoma of the uvea associated with large cell carcinoma, giant cell type, of the lung; case report of a newly described syndrome. *Ophthalmologica* 1984;189:221–8.
- [114] Prusiner PE, Butler A, Yavitz EQ, et al. Metastatic adenocarcinoma presenting as bilateral blindness. *Ann Ophthalmol* 1983;15:653–6.
- [115] Rohrbach JM, Roggendorf W, Thanos S, et al. Simultaneous bilateral diffuse melanocytic uveal hyperplasia. *Am J Ophthalmol* 1990;110:49–56.
- [116] Ryll DL, Campbell RJ, Robertson DM, et al. Pseudometastatic lesions of the choroid. *Ophthalmology* 1980;87:1181–6.
- [117] Chahud F, Young RH, Remulla JF, et al. Bilateral diffuse uveal melanocytic proliferation associated with extraocular cancers: review of a process particularly associated with gynecologic cancers. *Am J Surg Pathol* 2001;25:212–8.
- [118] Klingele TG, Burde RM, Rappazzo JA, et al. Paraneoplastic retinopathy. *J Clin Neuro-Ophthalmol* 1984;4:239–45.
- [119] Sawyer RA, Selhorst JB, Zimmerman LE, et al. Blindness caused by photoreceptor degeneration as a remote effect of cancer. *Am J Ophthalmol* 1976;81:606–13.
- [120] Singh AD, Rundle PA, Slater DN, et al. Uveal and cutaneous involvement in paraneoplastic melanocytic proliferation. *Arch Ophthalmol* 2003;121:1637–40.
- [121] Tsukahara S, Wakui K, Ohzeki S. Simultaneous bilateral primary diffuse malignant melanoma: case report with pathological examination. *Br J Ophthalmol* 1986;70:33–8.
- [122] Brownstein S, Little JM. Ocular neurofibromatosis. *Ophthalmology* 1983;90:1595–9.
- [123] Anand R, Augsburger JJ, Shields JA. Circumscribed choroidal hemangiomas. *Arch Ophthalmol*. 1989;107:1338–42.
- [124] Augsburger JJ, Shields JA, Moffat KP. Circumscribed choroidal hemangiomas: long-term visual prognosis. *Retina* 1981;1:56–61.
- [125] Jarrett II WH, Hagler WS, Larose JH, et al. Clinical experience with presumed hemangioma of the choroid: radioactive phosphorus uptake studies as an aid in differential diagnosis. *Trans Am Acad Ophthalmol Otolaryngol* 1976;81:OP862–OP870.
- [126] Jones IS, Cleasby GW. Hemangioma of the choroid: a clinicopathologic analysis. *Am J Ophthalmol* 1959;48:612–28.
- [127] Pitta CG, Shingleton BJ, Harris PJ, et al. Solitary choroidal hemangioma. *Am J Ophthalmol* 1979;88:698–701.
- [128] Reese AB. *Tumors of the eye*, 2nd ed. New York: Harper & Row; 1963. p. 269.
- [129] Sanborn GE, Augsburger JJ, Shields JA. Treatment of circumscribed choroidal hemangiomas. *Ophthalmology* 1982;89:1374–80.
- [130] Zografos L, Gailloud C, Bercher L. Le traitement des hémangiomes de la choroïde par radiothérapie. *J Fr Ophtalmol* 1989;12:797–807.
- [131] Lindsey PS, Shields JA, Goldberg RE, et al. Bilateral choroidal hemangiomas and facial nevus flammeus. *Retina* 1981;1:88–95.
- [132] MacLean AL, Maumenee AE. Hemangioma of the choroid. *Am J Ophthalmol* 1960;50:3–11.
- [133] Shields JA, Stephens RF, Eagle Jr RC, et al. Progressive enlargement of a circumscribed choroidal hemangioma. *Arch Ophthalmol* 1992;110:1276–8.
- [134] Shields CL, Honavar SG, Shields JA, et al. Circumscribed choroidal hemangioma: clinical manifestations and factors predictive of visual outcome in 200 consecutive cases. *Ophthalmology* 2001;108:2237–48.
- [135] Ruby AJ, Jampol LM, Goldberg MF, et al. Choroidal neovascularization associated with choroidal hemangiomas. *Arch Ophthalmol* 1992;110:658–61.
- [136] Leys AM, Bonnet S. Case report: associated retinal neovascularization

- and choroidal hemangioma. *Retina* 1993;13:22–5.
- [137] Gass JDM. Photocoagulation of macular lesions. *Trans Am Acad Ophthalmol Otolaryngol* 1971;75:580–608.
- [138] Norton EWD, Gutman F. Fluorescein angiography and hemangiomas of the choroid. *Arch Ophthalmol* 1967;78:121–5.
- [139] Smith JL, David NJ, Hart LM, et al. Hemangioma of the choroid; fluorescein photography and photocoagulation. *Arch Ophthalmol* 1963;69:51–4.
- [140] Arevalo JF, Shields CL, Shields JA, et al. Circumscribed choroidal hemangioma: characteristic features with indocyanine green videoangiography. *Ophthalmology* 2000;107:344–50.
- [141] Witschel H, Font RL. Hemangioma of the choroid: a clinicopathologic study of 71 cases and a review of the literature. *Surv Ophthalmol* 1976;20:415–31.
- [142] Cox Jr. MS. Discussion of the two preceding papers [on 32P uptake test]. *Trans Am Acad Ophthalmol Otolaryngol* 1975;79:OP307–OP309.
- [143] Ossoinig KC, Blodi FC. Preoperative differential diagnosis of tumors with echography. III. Diagnosis of intraocular tumors. In: Blodi FC, editor. *Current concepts in ophthalmology*. St. Louis: CV Mosby; 1974. p. 296–313.
- [144] Madreperla SA. Choroidal hemangioma treated with photodynamic therapy using verteporfin. *Arch Ophthalmol* 2001;119:1606–10.
- [145] Robertson DM. Photodynamic therapy for choroidal hemangioma associated with serous retinal detachment. *Arch Ophthalmol* 2002;120:1155–61.
- [146] Schmidt-Erfurth UM, Michels S, Kusserow C, et al. Photodynamic therapy for symptomatic choroidal hemangioma: visual and anatomic results. *Ophthalmology* 2002;109:2284–94.
- [147] Singh AD, Kaiser PK, Sears JE, et al. Photodynamic therapy of circumscribed choroidal haemangioma. *Br J Ophthalmol* 2004;88:1414–8.
- [148] Michels S, Michels R, Simader C, et al. Verteporfin therapy for choroidal hemangioma: a long-term follow-up. *Retina* 2005;25:697–703.
- [149] Greber H, Alberti W, Scherer E. Strahlentherapie der Aderhauthämangiome. *Fortschr Ophthalmol* 1985;82:450–2.
- [150] Humphrey WT. Choroidal hemangioma: response to cryotherapy. *Ann Ophthalmol* 1979;11:100–4.
- [151] Scott TA, Augsburger JJ, Brady LW, et al. Low dose ocular irradiation for diffuse choroidal hemangiomas associated with bullous nonrhegmatogenous retinal detachment. *Retina* 1991;11:389–93.
- [152] Pitta C, Bergen R, Littwin S. Spontaneous regression of a choroidal hemangioma following pregnancy. *Ann Ophthalmol* 1979;11:772–4.
- [153] Papale JJ, Frederick AR, Albert DM. Intraocular hemangiopericytoma. *Arch Ophthalmol* 1983;101:1409–11.
- [154] Sullivan TJ, Clarke MP, Morin JD. The ocular manifestations of the Sturge–Weber syndrome. *J Pediatr Ophthalmol Strabismus* 1992;29:349–56.
- [155] Susac JO, Smith JL, Scelfo RJ. The “tomato catsup” fundus in Sturge–Weber syndrome. *Arch Ophthalmol* 1974;92:69–70.
- [156] Singh AD, Rundle PA, Vardy SJ, et al. Photodynamic therapy of choroidal haemangioma associated with Sturge–Weber syndrome. *Eye (Lond)* 2005;19:365–7.
- [157] Grant LW, Anderson C, Macklis RM, et al. Low dose irradiation for diffuse choroidal hemangioma. *Ophthalmic Genet* 2008;29:186–8.
- [158] Naidoff MA, Kenyon KR, Green WR. Iris hemangioma and abnormal retinal vasculature in a case of diffuse congenital hemangiomatosis. *Am J Ophthalmol* 1971;72:633–44.
- [159] Ruttum MS, Mittelman D, Singh P. Iris hemangiomas in infants with periorbital capillary hemangiomas. *J Pediatr Ophthalmol Strabismus* 1993;30:331–3.
- [160] Amalric P. Osteomes choroïdiens. *Bull Soc Ophtalmol Fr* 1980;80:47–50.
- [161] Augsburger JJ, Shields JA, Rife CJ. Bilateral choroidal osteoma after nine years. *Can J Ophthalmol* 1979;14:281–4.
- [162] Avila MP, El-Markabi H, Azzolini C, et al. Bilateral choroidal osteoma with subretinal neovascularization. *Ann Ophthalmol* 1984;16:381–5.
- [163] Aylward, GW, Chang, TS, et al. (1998). A long-term follow-up of choroidal osteoma. *Arch Ophthalmol* 116(10): 1337–1341.
- [164] Baarsma GS, Craandijk A. Osteoma of the choroid. *Doc Ophthalmol* 1981;50:205–12.
- [165] Baum MD, Pilkerton AR, Berler DK, et al. Choroidal osteoma. *Ann Ophthalmol* 1979;11:1849–51.
- [166] Bloom PA, Ferris JD, Laidlaw A, et al. Appearances of choroidal osteomas with diagnostic imaging. *Br J Radiol* 1992;65:845–8.
- [167] Buettner H. Spontaneous involution of a choroidal osteoma. *Arch Ophthalmol* 1990;108:1517–8.
- [168] Burke JF, Brockhurst RJ. Argon laser photocoagulation of subretinal neovascular membrane associated with osteoma of the choroid. *Retina* 1983;3:304–7.
- [169] Cennamo G, Iaccarino G, de Crecchio G, et al. Choroidal osteoma (osseous choristoma): an atypical case. *Br J Ophthalmol* 1990;74:700–1.
- [170] Coston TO, Wilkinson CP. Choroidal osteoma. *Am J Ophthalmol* 1978;86:368–72.
- [171] Cunha SL. Osseous choristoma of the choroid; a familial disease. *Arch Ophthalmol* 1984;102:1052–4.
- [172] De Potter P, Shields JA, Shields CL, et al. Magnetic resonance imaging in choroidal osteoma. *Retina* 1991;11:221–3.
- [173] Eting E, Savir H. An atypical fulminant course of choroidal osteoma in two siblings. *Am J Ophthalmol* 1992;113:52–5.
- [174] Fava GE, Brown GC, Shields JA, et al. Choroidal osteoma in a 6-year-old child. *J Pediatr Ophthalmol Strabismus* 1980;17:203–5.
- [175] Gass JDM. New observations concerning choroidal osteomas. *Int Ophthalmol* 1979;1:71–84.
- [176] Gass JDM, Guerry RK, Jack RL, et al. Choroidal osteoma. *Arch Ophthalmol* 1978;96:428–35.
- [177] Grand MG, Burgess DB, Singerman LJ, et al. Choroidal osteoma; treatment of associated subretinal neovascular membranes. *Retina* 1984;4:84–9.
- [178] Hoffman ME, Sorr EM. Photocoagulation of subretinal neovascularization associated with choroidal osteoma. *Arch Ophthalmol* 1987;105:998–9.
- [179] Jackson WE, Freed S. Unilateral osseous choristoma of the choroid. *Ann Ophthalmol* 1984;16:134–6.
- [180] Joffe L, Shields JA, Fitzgerald JR. Osseous choristoma of the choroid. *Arch Ophthalmol* 1978;96:1809–12.
- [181] Katz RS. Gass JDM. Multiple choroidal osteomas developing in association with recurrent orbital inflammatory pseudotumor. *Arch Ophthalmol* 1983;101:1724–7.
- [182] Kayazawa F, Shimamoto S. Choroidal osteoma: two cases in Japanese women. *Ann Ophthalmol* 1981;13:1053–6.
- [183] Kelinske M, Weinstein GW. Bilateral choroidal osteomas. *Am J Ophthalmol* 1981;92:676–80.
- [184] Kline LB, Skalka HW, Davidson JD, et al. Bilateral choroidal osteomas associated with fatal systemic illness. *Am J Ophthalmol* 1982;93:192–7.
- [185] Laibovitz RA. An unusual cause of intraocular calcification: choroidal osteoma. *Ann Ophthalmol* 1979;11:1077–9.
- [186] O'Connor PS. Choroidal osteoma: a new clinicopathologic syndrome. In: Smith JL, editor. *Neuro-ophthalmology focus*



1980. New York: Masson Publishing; 1979. p. 31–5.
- [187] Shields CL, Shields JA, Augsburger JJ. Choroidal osteoma. *Surv Ophthalmol* 1988;33:17–27.
- [188] Shields JA. Diagnosis and management of intraocular tumors. St. Louis: CV Mosby; 1983. p. 373.
- [189] Teich SA, Walsh JB. Choroidal osteoma. *Ophthalmology* 1981;88:696–8.
- [190] Trimble SN, Schatz H. Choroidal osteoma after intraocular inflammation. *Am J Ophthalmol* 1983;96:759–64.
- [191] Trimble SN, Schatz H. Decalcification of a choroidal osteoma. *Br J Ophthalmol* 1991;75:61–3.
- [192] Trimble SN, Schatz H, Schneider GB. Spontaneous decalcification of a choroidal osteoma. *Ophthalmology* 1988;95:631–4.
- [193] Tsukahara I, Hayashi M. Osseous choristoma of the choroid. *Jpn J Ophthalmol* 1980;24:90–5.
- [194] Wilkes SR, Campbell RJ, Waller RR. Ocular malformation in association with ipsilateral facial nevus of Jadassohn. *Am J Ophthalmol* 1981;92:344–52.
- [195] Williams AT, Font RL, Van Dyk HJ, et al. Osseous choristoma of the choroid simulating a choroidal melanoma; association with a positive <sup>32</sup>P test. *Arch Ophthalmol* 1978;96:1874–7.
- [196] Morrison DL, Magargal LE, Ehrlich DR, et al. Review of choroidal osteoma: successful krypton red laser photocoagulation of an associated subretinal neovascular membrane involving the fovea. *Ophthalmic Surg* 1987;18:299–303.
- [197] McLeod BK. Choroidal osteoma presenting in pregnancy. *Br J Ophthalmol* 1988;72:612–4.
- [198] Narayanan R, Shah VA. Intravitreal bevacizumab in the management of choroidal neovascular membrane secondary to choroidal osteoma. *Eur J Ophthalmol* 2008;18:466–8.
- [199] Singh AD, Talbot JF, Rundle PA, et al. Choroidal neovascularization secondary to choroidal osteoma: successful treatment with photodynamic therapy. *Eye (Lond)* 2005;19:482–4.
- [200] Shields CL, Materin MA, Mehta S, et al. Regression of extrafoveal choroidal osteoma following photodynamic therapy. *Arch Ophthalmol* 2008;126:135–7.
- [201] Rose SJ, Burke JF, Brockhurst RJ. Argon laser photocoagulation of a choroidal osteoma. *Retina* 1991;11:224–8.
- [202] Noble KG. Bilateral choroidal osteoma in three siblings. *Am J Ophthalmol* 1990;109:656–60.
- [203] Goldstein BG, Miller J. Metastatic calcification of the choroid in a patient with primary hyperparathyroidism. *Retina* 1982;2:76–9.
- [204] Alfonso I, Howard C, Lopez PF, et al. Linear nevus sebaceous syndrome: a review. *J Clin Neuro-ophthalmol* 1987;7:170–7.
- [205] Campbell SH, Patterson A. Pseudopapilloedema in the linear nevus syndrome. *Br J Ophthalmol* 1992;76:372–4.
- [206] Lambert HM, Sipperley JO, Shore JW, et al. Linear nevus sebaceous syndrome. *Ophthalmology* 1987;94:278–82.
- [207] Pittke EC, Marquardt R, Mohr W. Cartilage choristoma of the eye. *Arch Ophthalmol* 1983;101:1569–71.
- [208] Basta LL, Wilkenson CP, Anderson LS, et al. Focal choroidal calcification. *Ann Ophthalmol* 1981;13:447–50.
- [209] Lim JI, Goldberg MF. Idiopathic sclerochoroidal calcification. *Arch Ophthalmol* 1989;107:1122–3.
- [210] Menchini U, Davi G, Pierro L, et al. Ostéome de la choroïde bilatéral chez un sujet âgé. *J Fr Ophtalmol* 1990;13:3–9.
- [211] Munier F, Zografos L, Schnyder P. Idiopathic sclerochoroidal calcification: new observations. *Eur J Ophthalmol* 1991;1:167–72.
- [212] Schachat AP, Robertson DM, Mieler WF, et al. Sclerochoroidal calcification. *Arch Ophthalmol* 1992;110:196–9.
- [213] Sivalingam A, Shields CL, Shields JA, et al. Idiopathic sclerochoroidal calcification. *Ophthalmology* 1991;98:720–4.
- [214] Wiessner PD, Nofsinger K, Jackson WE. Choroidal osteoma: two case reports in elderly patients. *Ann Ophthalmol* 1987;19:1923.
- [215] Jensen OA. Ocular calcifications in primary hyperparathyroidism; histochemical and ultrastructural study of a case: comparison with ocular calcifications in idiopathic hypercalcaemia of infancy and in renal failure. *Acta Ophthalmol* 1975;53:173–86.
- [216] Honavar SG, Shields CL, Demirci H, et al. Sclerochoroidal calcification: clinical manifestations and systemic associations. *Arch Ophthalmol* 2001;119:833–40.
- [217] Park JM, Kim DS, Kim J, et al. Epibulbar complex choristoma and hemimegalencephaly in linear sebaceous naevus syndrome. *Clin Exp Dermatol* 2009;34:e686–9.
- [218] Traboulsi EI, Zin A, Massicotte SJ, et al. Posterior scleral choristoma in the organoid nevus syndrome (linear nevus sebaceous of Jadassohn). *Ophthalmology* 1999;106:2126–30.
- [219] Spector B, Klintworth GK, Wells Jr SA. Histologic study of the ocular lesions in multiple endocrine neoplasia syndrome type IIb. *Am J Ophthalmol* 1981;91:204–15.
- [220] Shields JA, Sanborn GE, Kurz GH, et al. Benign peripheral nerve tumor of the choroid; a clinicopathologic correlation and review of the literature. *Ophthalmology* 1981;88:1322–9.
- [221] Fan JT, Campbell RJ, Robertson DM. A survey of intraocular schwannoma with a case report. *Can J Ophthalmol* 1995;30:37–41.
- [222] Turell ME, Hayden BC, McMahon JT, et al. Uveal schwannoma surgery. *Ophthalmology* 2009;116:163–e6.
- [223] Saavedra E, Singh AD, Sears JE, et al. Plexiform pigmented schwannoma of the uvea. *Surv Ophthalmol* 2006;51:162–8.
- [224] Odashiro AN, Fernandes BF, Al-Kandari A, et al. Report of two cases of ciliary body mesectodermal leiomyoma: unique expression of neural markers. *Ophthalmology* 2007;114:157–61.
- [225] Toth J, Bausz M, Imre L. Unilateral Malassezia furfur blepharitis after perforating keratoplasty. *Br J Ophthalmol* 1996;80:488.
- [226] Jakobiec FA, Mitchell JP, Chauhan PM, et al. Mesectodermal leiomyosarcoma of the antrum and orbit. *Am J Ophthalmol* 1978;85:51–7.
- [227] Blodi FC. Leiomyoma of the ciliary body. *Am J Ophthalmol* 1950;33:939–42.
- [228] Miyamoto K, Kashii S, Oishi A, et al. Mesectodermal leiomyoma confined to the posterior choroid. *Jpn J Ophthalmol* 2007;51:240–3.
- [229] Perri P, Paduano B, Incorvaia C, et al. Mesectodermal leiomyoma exclusively involving the posterior choroid. *Am J Ophthalmol* 2002;134:451–4.
- [230] Shields JA, Shields CL, Eagle Jr RC. Mesectodermal leiomyoma of the ciliary body managed by partial lamellar iridocyclochoroidectomy. *Ophthalmology* 1989;96:1369–76.
- [231] Ben-Ezra D, Sahel JA, Harris NL, et al. Uveal lymphoid infiltrates: immunohistochemical evidence for a lymphoid neoplasia. *Br J Ophthalmol* 1989;73:846–51.
- [232] Crookes GP, Mullaney J. Lymphoid hyperplasia of the uveal tract simulating malignant lymphoma. *Am J Ophthalmol* 1967;63:962–7.
- [233] Desroches G, Abrams GW, Gass JDM. Reactive lymphoid hyperplasia of the uvea; a case with ultrasonographic and computed tomographic studies. *Arch Ophthalmol* 1983;101:725–8.
- [234] Gass JDM. Retinal detachment and narrow-angle glaucoma secondary to inflammatory pseudotumor of the uveal tract. *Am J Ophthalmol* 1967;64:612–21.
- [235] Ryan SJ, Zimmerman LE, King EM. Reactive lymphoid hyperplasia; an unusual form of intraocular pseudotumor. *Trans Am Acad Ophthalmol Otolaryngol* 1972;76:652–71.

- [236] Ryan Jr SJ, Frank RN, Green WR. Bilateral inflammatory pseudotumors of the ciliary body. *Am J Ophthalmol* 1971; 72:586–91.
- [237] Zimmerman LE. Lymphoid tumors. In: Boniuk M, editor. *Ocular and adnexal tumors: new and controversial aspects*. St. Louis: CV Mosby; 1964. p. 429–46.
- [238] Duker JS, Shields JA, Eagle Jr RC. Ocular lymphoid hyperplasia. *Arch Ophthalmol* 1989;107:446–7.
- [239] Jakobiec FA, Sacks E, Kronish JW, et al. Multifocal static creamy choroidal infiltrates; an early sign of lymphoid neoplasia. *Ophthalmology* 1987;94:397–406.
- [240] Chang TS, Burne F, Gass JDM, et al. Echographic findings in benign reactive lymphoid hyperplasia of the choroid. *Arch Ophthalmol* 1996;114:669–75.
- [241] Cheung MK, Martin DF, Chan C-C, et al. Diagnosis of reactive lymphoid hyperplasia by chorioretinal biopsy. *Am J Ophthalmol* 1994;118:457–62.
- [242] Matsuo T, Matsuo N, Shiraga F, et al. Retinal pigment epithelial tear in reactive lymphoid hyperplasia of uvea. *Ophthalmologica* 1990;200:46–54.
- [243] Stacy RC, Jakobiec FA, Schoenfield L, et al. Unifocal and multifocal reactive lymphoid hyperplasia vs follicular lymphoma of the ocular adnexa. *Am J Ophthalmol* 2010;150 412-26e1.
- [244] Gulley ML, Dent GA, Ross DW. Classification and staging of lymphoma by molecular genetics. *Cancer* 1992;69:1600–6.
- [245] Gittinger Jr JW. Ocular involvement in Castleman's disease; response to radiotherapy. *Ophthalmology* 1989;96:1646–9.
- [246] Coupland SE, Foss HD, Hidayat AA, et al. Extranodal marginal zone B cell lymphomas of the uvea: an analysis of 13 cases. *J Pathol* 2002;197:333–40.
- [247] Fuller ML, Sweetenham J, Schoenfield L, et al. Uveal lymphoma: a variant of ocular adnexal lymphoma. *Leuk Lymphoma* 2008;49:2393–7.
- [248] Grossniklaus HE, Martin DF, Avery R, et al. Uveal lymphoid infiltration. Report of four cases and clinicopathologic review. *Ophthalmology* 1998;105:1265–73.
- [249] Cockerham GC, Hidayat AA, Bijwaard KE, et al. Re-evaluation of “reactive lymphoid hyperplasia of the uvea”: an immunohistochemical and molecular analysis of 10 cases. *Ophthalmology* 2000;107:151–8.
- [250] Chappelov AV, Singh AD, Perez VL, et al. Bilateral panocular involvement with mantle-cell lymphoma. *J Clin Oncol* 2008;26:1167.
- [251] Cibis GW, Freeman AI, Pang V, et al. Bilateral choroidal neonatal neuroblastoma. *Am J Ophthalmol* 1990;109:445–9.
- [252] Ferry AP, Font RL. Carcinoma metastatic to the eye and orbit. I. A clinicopathologic study of 227 cases. *Arch Ophthalmol* 1974;92:276–86.
- [253] Ferry AP, Font RL. Carcinoma metastatic to the eye and orbit. II. A clinicopathologic study of 26 patients with carcinoma metastatic to the anterior segment of the eye. *Arch Ophthalmol* 1975;93:472–82.
- [254] Gonvers M, Zografos L. Choroidal metastasis and rhegmatogenous retinal detachment. *Retina* 1991;11:426–9.
- [255] Mames RN, Margo CE. Retinal pigment epithelial tear after treatment of metastatic carcinoma of the choroid. *Retina* 1991;11:430–2.
- [256] Stephens RF, Shields JA. Diagnosis and management of cancer metastatic to the uvea: a study of 70 cases. *Ophthalmology* 1979;86:1336–49.
- [257] Michelson JB, Stephens RF, Shields JA. Clinical conditions mistaken for metastatic cancer to the choroid. *Ann Ophthalmol* 1979;11:149–53.
- [258] Shields CL, Shields JA, Gross NE, et al. Survey of 520 eyes with uveal metastases. *Ophthalmology* 1997;104:1265–76.
- [259] Barondes MJ, Hamilton AM, Hungerford J, et al. Treatment of choroidal metastasis from choriocarcinoma. *Arch Ophthalmol* 1989;107:796–8.
- [260] Jaeger EA, Frayer WC, Southard ME, et al. Effect of radiation therapy on metastatic choroidal tumors. *Trans Am Acad Ophthalmol Otolaryngol* 1971;75:94–101.
- [261] Letson AD, Davidorf FH, Bruce Jr RA. Chemotherapy for treatment of choroidal metastases from breast carcinoma. *Am J Ophthalmol* 1982;93:102–6.
- [262] Logani S, Gomez H, Jampol LM. Resolution of choroidal metastasis in breast cancer with high estrogen receptors. *Arch Ophthalmol* 1992;110:451–2.
- [263] Anteby I, Pe'er J, Uziely B, et al. Thyroid carcinoma metastasis to the choroid responding to systemic <sup>131</sup>I therapy. *Am J Ophthalmol* 1992;113:461–2.
- [264] Margolis R, Budd GT, Singh AD. Unusual macular degeneration following breast cancer. *Acta Ophthalmol Scand* 2007 Sep;85(6):686–7.
- [265] Sachin Mehta, Anita Agarwal. Metastatic liposarcoma masquerading as an inflammatory granuloma. *Retinal Cases and Brief Reports*, 2011; 5: 18–21.
- [266] Blodi FC. The difficult diagnosis of choroidal melanoma. *Arch Ophthalmol* 1963;69:253–6.
- [267] Clayman HM, Flynn JT, Koch K, et al. Retinal pigment epithelial abnormalities in leukemic disease. *Am J Ophthalmol* 1972;74:416–9.
- [268] Schimmelpfennig W, Aur RJA. Leopardenfleck-Chorioretinopathie; erstes Anzeichen eines Rezidivs einer akuten lymphozytischen Leukämie. *Ophthalmologie* 1992;89:430–1.
- [269] Chang GC, Moshfeghi DM, Alcorn DM. Choroidal infiltration in juvenile myelomonocytic leukaemia. *Br J Ophthalmol* 2006;90:1067.
- [270] Tang RA, Vila-Coro AA, Wall S, et al. Acute leukemia presenting as a retinal pigment epithelium detachment. *Arch Ophthalmol* 1988;106:21–2.
- [271] Jakobiec F, Behrens M. Leukemic pigment epitheliopathy with report of a unilateral case. *J Pediatr Ophthalmol* 1975;12:10–15.
- [272] Dickson BC, Pethe V, Chung CT, et al. Systemic Erdheim–Chester disease. *Virchows Arch* 2008;452:221–7.
- [273] Karcioğlu ZA. Ocular and periocular histiocytoses. *Ophthalm Plast Reconstr Surg* 2007;23:8–10.
- [274] Cheung N, Selva D, McNab AA. Orbital Langerhans cell histiocytosis in adults. *Ophthalmology* 2007;114:1569–73.
- [275] Valmaggia C, Neuweiler J, Fretz C, et al. A case of Erdheim–Chester disease with orbital involvement. *Arch Ophthalmol* 1997;115:1467–8.
- [276] Shields JA, Karcioğlu ZA, Shields CL, et al. Orbital and eyelid involvement with Erdheim–Chester disease. A report of two cases. *Arch Ophthalmol* 1991;109:850–4.
- [277] Shields JA, Shields CL. Clinical spectrum of histiocytic tumors of the orbit. *Trans Pa Acad Ophthalmol Otolaryngol* 1990;42:931–47.
- [278] Gass JD. Retinal detachment and narrow-angle glaucoma secondary to inflammatory pseudotumor of the uveal tract. *Am J Ophthalmol* 1967;64(Suppl.):612–21.
- [279] Gass JD. A clinicopathologic study of a peculiar foveomacular dystrophy. *Trans Am Ophthalmol Soc* 1974;72:139–56.
- [280] Shields JA, Font RL, Eagle Jr RC, et al. Melanotic schwannoma of the choroid. Immunohistochemistry and electron microscopic observations. *Ophthalmology* 1994;101:843–9.
- [281] Coston TO, Wilkinson CP. Choroidal osteoma. *Am J Ophthalmol* 1978;86:368–72.
- [282] Gass JD, Guerry RK, Jack RL, et al. Choroidal osteoma. *Arch*

- Ophthalmol 1978;96:428-35.
- [283] Gass JD. New observations concerning choroidal osteomas. *Int Ophthalmol* 1979;1:71-84.
- [284] Noble KG. Bilateral choroidal osteoma in three siblings. *Am J Ophthalmol* 1990;109:656-60.
- [285] Katz RS, Gass JD. Multiple choroidal osteomas developing in association with recurrent orbital inflammatory pseudotumor. *Arch Ophthalmol* 1983;101:1724-7.
- [286] Alfonso I, Howard C, Lopez PF, et al. Linear nevus sebaceous syndrome. A review. *J Clin Neuroophthalmol* 1987;7:170-7.
- [287] Spector B, Klintworth GK, Wells Jr SA. Histologic study of the ocular lesions in multiple endocrine neoplasia syndrome type IIb. *Am J Ophthalmol* 1981;91:204-15.
- [288] Clayman HM, Flynn JT, Koch K, et al. Retinal pigment epithelial abnormalities in leukemic disease. *Am J Ophthalmol* 1972;74:416-9.

## 第 15 章

- [1] Akiba J, Kakehashi A, Hikichi T, et al. Vitreous findings in cases of optic nerve pits and serous macular detachment. *Am J Ophthalmol* 1993;116:38-41.
- [2] Alexander TA, Billson FA. Vitrectomy and photocoagulation in the management of serous detachment associated with optic nerve pits. *Aust J Ophthalmol* 1984;12:139-42.
- [3] Annesley W, Brown G, Bolling J, et al. Treatment of retinal detachment with congenital optic pit by krypton laser photocoagulation. *Graefes Arch Clin Exp Ophthalmol* 1987;225:311-4.
- [4] Bonnet M. Serous macular detachment associated with optic nerve pits. *Graefes Arch Clin Exp Ophthalmol* 1991;229:526-32.
- [5] Brown GC, Shields JA, Goldberg RE. Congenital pits of the optic nerve head. II. Clinical studies in humans. *Ophthalmology* 1980;87:51-65.
- [6] Brown GC, Shields JA, Patty BE, et al. Congenital pits of the optic nerve head. I. Experimental studies in collie dogs. *Arch Ophthalmol* 1979;97:1341-4.
- [7] Calhoun FP. Bilateral coloboma of the optic nerve associated with holes in the disk and a cyst of the optic sheath. *Arch Ophthalmol* 1930;3:71-9.
- [8] Cox MS, Witherspoon CD, Morris RE, et al. Evolving techniques in the treatment of macular detachment caused by optic nerve pits. *Ophthalmology* 1988;95:889-96.
- [9] Farpour H, Babel J. Les fossettes papillaires; diagnostic différentiel, anomalies vasculaires et cas limites. *Ann Oculist* 1968;201:1-17.
- [10] Ferry AP. Macular detachment associated with congenital pit of the optic nerve head; pathologic findings in two cases simulating malignant melanoma of the choroid. *Arch Ophthalmol* 1963;70:346-57.
- [11] Gass JDM. Discussion of paper by Brockhurst RJ: Optic pits and posterior retinal detachment. *Trans Am Ophthalmol Soc* 1975;73:288-9.
- [12] Gass JDM. Serous detachment of the macula secondary to congenital pit of the optic nervehead. *Am J Ophthalmol* 1969;67:821-41.
- [13] Gordon R, Chatfield RK. Pits in the optic disc associated with macular degeneration. *Br J Ophthalmol* 1969;53:481-9.
- [14] Grimson BS, Mann JD, Pantell JP. Optic nerve pit during papilledema. *Arch Ophthalmol* 1982;100:99-100.
- [15] Hendrikse F, Deutman AF. Central serous detachment with optic pit treated by gas injection and laser coagulation. *Lasers Light Ophthalmol* 1989;2:249-52.
- [16] Jack MK. Central serous retinopathy with optic pit treated with photocoagulation. *Am J Ophthalmol* 1969;67:519-21.
- [17] Jay WM, Pope Jr J, Riffle JE. Juxtapapillary subretinal neovascularization associated with congenital pit of the optic nerve. *Am J Ophthalmol* 1984;97:655-8.
- [18] Kalina RE, Conrad WC. Intrathecal fluorescein for serous macular detachment. *Arch Ophthalmol* 1976;94:1421.
- [19] Kranenburg EW. Crater-like holes in the optic disc and central serous retinopathy. *Arch Ophthalmol* 1960;64:912-24.
- [20] Lincoff H, Lopez R, Kreissig I, et al. Retinoschisis associated with optic nerve pits. *Arch Ophthalmol* 1988;106:61-7.
- [21] Lincoff H, Yannuzzi L, Singerman L, et al. Improvement in visual function after displacement of the retinal elevations emanating from optic pits. *Arch Ophthalmol* 1993;111:1071-9.
- [22] Petersen HP. Pits or crater-like holes in the optic disc. *Acta Ophthalmol* 1958;36:435-43.
- [23] Regenbogen L, Stein R, Lazar M. Macular and juxtapapillary serous retinal detachment associated with pit of optic disc. *Ophthalmologica* 1964;148:247-51.
- [24] Rubinstein K, Ali M. Complications of optic disc pits. *Trans Ophthalmol Soc UK* 1978;98:195-200.
- [25] Schatz H, McDonald HR. Treatment of sensory retinal detachment associated with optic nerve pit or coloboma. *Ophthalmology* 1988;95:178-86.
- [26] Sobol WM, Blodi CF, Folk JC, et al. Long-term visual outcome in patients with optic nerve pit and serous retinal detachment of the macula. *Ophthalmology* 1990;97:1539-42.
- [27] Doyle E, Trivedi D, Good P, et al. High-resolution optical coherence tomography demonstration of membranes spanning optic disc pits and colobomas. *Br J Ophthalmol* 2009;93:360-5.
- [28] Vedantham V, Ramasamy K. Spontaneous improvement of serous maculopathy associated with congenital optic disc pit: an OCT study. *Eye (Lond)* 2005;19:596-9.
- [29] Vedantham V. Double optic discs, optic disc coloboma, and pit: spectrum of hybrid disc anomalies in a single eye. *Arch Ophthalmol* 2005;123:1450-2.
- [30] Brockhurst RJ. Optic pits and posterior retinal detachment. *Trans Am Ophthalmol Soc* 1975;73:264-91.
- [31] Gass JDM. Stereoscopic atlas macular diseases; diagnosis and treatment, 3rd ed. St. Louis: CV Mosby; 1987. p. 728-33.
- [32] Savell J, Cook JR. Optic nerve colobomas of autosomal-dominant heredity. *Arch Ophthalmol* 1976;94:395-400.
- [33] Slusher MM, Weaver Jr RG, Greven CM, et al. The spectrum of cavitary optic disc anomalies in a family. *Ophthalmology* 1989;96:342-7.
- [34] Theodossiadis GP, Koutsandrea C, Theodossiadis PG. Optic nerve pit with serous macular detachment resulting in rhegmatogenous retinal detachment. *Br J Ophthalmol* 1993;77:385-6.
- [35] Cavarretta S, Salvatore S, Vingolo EM. Use of MP-1 microperimetry in optic disc pit and secondary retinoschisis. *Int Ophthalmol* 2009;29:423-5.
- [36] Theodossiadis GP, Kollia AK, Theodossiadis PG. Cilioretinal arteries in conjunction with a pit of the optic disc. *Ophthalmologica*

- 1992;204:115–21.
- [37] Theodossiadis PG, Markomichelakis NN, Sfikakis PP. Tumor necrosis factor antagonists: preliminary evidence for an emerging approach in the treatment of ocular inflammation. *Retina* 2007;27:399–413.
- [38] Piccirillo V, Forte R, Savastano A, et al. Optic disc pit as evaluated with en-face optical coherence tomography: report of a case. *Eye (Lond)* 2007;21:1538–9.
- [39] Moon SJ, Kim JE, Spaide RF. Optic pit maculopathy without inner retinal schisis cavity. *Retina* 2006;26:113–6.
- [40] Meirelles RL, Aggio FB, Costa RA, et al. STRATUS optical coherence tomography in unilateral colobomatous excavation of the optic disc and secondary retinoschisis. *Graefes Arch Clin Exp Ophthalmol* 2005;243:76–81.
- [41] Lincoff H, Kreissig I. Optical coherence tomography of pneumatic displacement of optic disc pit maculopathy. *Br J Ophthalmol* 1998;82:367–72.
- [42] Sugar HS. Congenital pits in the optic disc and their equivalents (congenital colobomas and colobomalike excavations) associated with submacular fluid. *Am J Ophthalmol* 1967;63:298–307.
- [43] Chang S, Haik BG, Ellsworth RM, et al. Treatment of total retinal detachment in morning glory syndrome. *Am J Ophthalmol* 1984;97:596–600.
- [44] Kirshhof B, Arnold G, Kirshhof E. Zur Genese der Grubenpapille. Mikroskopische Untersuchungen bei einem Neugeborenen. *Klin Monatsbl Augenheilkd* 1986;188:310–2.
- [45] Brockhurst RJ. Optic pits and posterior retinal detachment. *Trans Am Ophthalmol Soc* 1975;73:264–91.
- [46] Mustonen E, Varonen T. Congenital pit of the optic nerve head associated with serous detachment of the macula. *Acta Ophthalmol* 1972;50:689–98.
- [47] Theodossiadis G. Evolution of congenital pit of the optic disk with macular detachment in photocoagulated and nonphotocoagulated eyes. *Am J Ophthalmol* 1977;84:620–31.
- [48] Theodossiadis G. Treatment of retinal detachment with congenital optic pit by krypton photocoagulation. *Graefes Arch Clin Exp Ophthalmol* 1988;226:299.
- [49] Zinn KM. Bilateral complete colobomas with a unilateral optic pit and recurrent retinal detachment; case report. *Mt Sinai J Med* 1979;46:419–23.
- [50] Snead MP, James N, Jacobs PM. Vitrectomy, argon laser, and gas tamponade for serous retinal detachment associated with an optic disc pit: a case report. *Br J Ophthalmol* 1991;75:381–2.
- [51] Ziahosseini K, Sanghvi C, Muzaffar W, et al. Successful surgical treatment of optic disc pit maculopathy. *Eye (Lond)* 2009;23:1477–9.
- [52] Inoue M, Shinoda K, Ishida S. Vitrectomy combined with glial tissue removal at the optic pit in a patient with optic disc pit maculopathy: a case report. *J Med Case Reports* 2008;2:103.
- [53] Johnson TM, Johnson MW. Pathogenic implications of subretinal gas migration through pits and atypical colobomas of the optic nerve. *Arch Ophthalmol* 2004;122:1793–800.
- [54] Rosenthal G, Bartz-Schmidt KU, Walter P, et al. Autologous platelet treatment for optic disc pit associated with persistent macular detachment. *Graefes Arch Clin Exp Ophthalmol* 1998;236:151–3.
- [55] Javitt JC, Spaeth GL, Katz LJ, et al. Acquired pits of the optic nerve; increased prevalence in patients with low-tension glaucoma. *Ophthalmology* 1990;97:1038–43.
- [56] Lichter PR, Henderson JW. Optic nerve infarction. *Am J Ophthalmol* 1978;85:302–10.
- [57] Morgan OG. Acquired hole in the disk. *Br J Ophthalmol* 1951;45:437–9.
- [58] Radius RL, Maumenee AE, Green WR. Pit-like changes of the optic nerve head in open-angle glaucoma. *Br J Ophthalmol* 1978;62:389–93.
- [59] Quigley HA, Hohman RM, Addicks EM, et al. Morphologic changes in the lamina cribrosa correlated with neural loss in open-angle glaucoma. *Am J Ophthalmol* 1983;95:673–91.
- [60] Anderson DR, Discussion of Javitt JC, Spaeth GL, Katz LJ, et al. Acquired pits of the optic nerve; increased prevalence in patients with low-tension glaucoma. *Ophthalmology* 1990;97:1043–44.
- [61] Radius RL, Maumenee AE, Green WR. Pit-like changes of the optic nerve head in open-angle glaucoma. *Br J Ophthalmol* 1978;62:389–93.
- [62] Zumbro DS, Jampol LM, Folk JC, et al. Macular schisis and detachment associated with presumed acquired enlarged optic nerve head cups. *Am J Ophthalmol* 2007;144:70–4.
- [63] Hollander DA, Barricks ME, Duncan JL, et al. Macular schisis detachment associated with angle-closure glaucoma. *Arch Ophthalmol* 2005;123:270–2.
- [64] Kahook MY, Noecker RJ, Ishikawa H, et al. Peripapillary schisis in glaucoma patients with narrow angles and increased intraocular pressure. *Am J Ophthalmol* 2007;143:697–9.
- [65] Beyer WB, Quencer RM, Osher RH. Morning glory syndrome; a functional analysis including fluorescein angiography, ultrasonography, and computerized tomography. *Ophthalmology* 1982;89:1362–4.
- [66] Bochow TW, Olk RJ, Knupp JA, et al. Spontaneous reattachment of a total retinal detachment in an infant with microphthalmos and an optic nerve coloboma. *Am J Ophthalmol* 1991;112:347–8.
- [67] Cennamo G, Liguori G, Pezone A, et al. Morning glory syndrome associated with marked persistent hyperplastic primary vitreous and lens colobomas. *Br J Ophthalmol* 1989;73:684–6.
- [68] Friberg TR, McLellan TG. Vitreous pulsations, relative hypotony, and retrobulbar cyst associated with a congenital optic pit. *Am J Ophthalmol* 1992;114:767–9.
- [69] Jensen PE, Kalina RE. Congenital anomalies of the optic disk. *Am J Ophthalmol* 1976;82:27–31.
- [70] Shami M, McCartney D, Benedict W, et al. Spontaneous retinal reattachment in a patient with persistent hyperplastic primary vitreous and an optic nerve coloboma. *Am J Ophthalmol* 1992;114:769–71.
- [71] Hanson MR, Price RL, Rothner AD, et al. Developmental anomalies of the optic disc and carotid circulation; a new association. *J Clin Neuro-Ophthalmol* 1985;5:3–8.
- [72] Rosenberg LF, Burde RM. Progressive visual loss caused by an arachnoidal brain cyst in a patient with an optic nerve coloboma. *Am J Ophthalmol* 1988;106:322–5.
- [73] Loddenkemper T, Friedman NR, Ruggieri PM, et al. Pituitary stalk duplication in association with moya moya disease and bilateral morning glory disc anomaly – broadening the clinical spectrum of midline defects. *J Neurol* 2008;255:885–90.
- [74] Chen CS, David D, Hanieh A. Morning glory syndrome and basal encephalocele. *Childs Nerv Syst* 2004;20:87–90.
- [75] Razeghinejad MR, Masoumpour M. Chiari type capital I, Ukrainian malformation associated with morning glory disc anomaly. *J Neuroophthalmol* 2006;26:279–81.
- [76] Murphy MA, Perlman EM, Rogg JM, et al. Reversible carotid artery narrowing in morning glory disc anomaly. *J Neuroophthalmol* 2005;25:198–201.
- [77] Brodsky MC, Landau K, Wilson RS, et al. Morning glory disc anomaly in neurofibromatosis type 2. *Arch Ophthalmol* 1999;117:839–41.
- [78] Hodgkins P, Lees M, Lawson J, et al. Optic disc anomalies and frontonasal dysplasia. *Br J Ophthalmol* 1998;82:290–3.
- [79] Magdalene D, Kalita L, Deka A, et al. Mid line craniofacial defects and morning glory disc anomaly with clinical anophthalmos-a



- distinct clinical entity. *Orbit* 2010;29:57-9.
- [80] Lenhart PD, Lambert SR, Newman NJ, et al. Intracranial vascular anomalies in patients with morning glory disk anomaly. *Am J Ophthalmol* 2006;142:644-50.
- [81] Cogan DG. Coloboma of optic nerve with overlay of peripapillary retina. *Br J Ophthalmol* 1978;62:347-50.
- [82] Slamovits TL, Kimball GP, Friberg TR, et al. Bilateral optic disc colobomas with orbital cysts and hypoplastic optic nerves and chiasm. *J Clin Neuro-Ophthalmol* 1989;9:172-7.
- [83] Touitou V, Vignal-Clermont C, Berges O, et al. Orbital cyst associated with ocular pit in an adult without microphthalmos. *Orbit* 2009;28:98-100.
- [84] Akiyama K, Azuma N, Hida T, et al. Retinal detachment in morning glory syndrome. *Ophthalmic Surg* 1984;15:841-3.
- [85] Haik BG, Greenstein SH, Smith ME, et al. Retinal detachment in the morning glory anomaly. *Ophthalmology* 1984;91:1638-47.
- [86] Hamada S, Ellsworth RM. Congenital retinal detachment and the optic disk anomaly. *Am J Ophthalmol* 1971;71:460-4.
- [87] Harris MJ, de Bustros S, Michels RG, et al. Treatment of combined traction-rhegmatogenous retinal detachment in the morning glory syndrome. *Retina* 1984;4:249-52.
- [88] Irvine AR, Crawford JB, Sullivan JH. The pathogenesis of retinal detachment with morning glory disc and optic pit. *Retina* 1986;6:146-50.
- [89] Kindler P. Morning glory syndrome: unusual congenital optic disk anomaly. *Am J Ophthalmol* 1970;69:376-84.
- [90] Lin CCL, Tso MOM, Vygantas CM. Coloboma of optic nerve associated with serous maculopathy; a clinicopathologic correlative study. *Arch Ophthalmol* 1984;102:1651-4.
- [91] Pollock S. The morning glory disc anomaly: contractile movement, classification, and embryogenesis. *Doc Ophthalmol* 1987;65:439-60.
- [92] Sobol WM, Bratton AR, Rivers MB, et al. Morning glory disk syndrome associated with subretinal neovascular membrane formation. *Am J Ophthalmol* 1990;110:93-4.
- [93] Steinkuller PG. The morning glory disk anomaly: case report and literature review. *J Pediatr Ophthalmol Strabismus* 1980;17:81-7.
- [94] von Fricken MA, Dhungel R. Retinal detachment in the morning glory syndrome; pathogenesis and management. *Retina* 1984;4:97-9.
- [95] Dailey JR, Cantore WA, Gardner TW. Peripapillary choroidal neovascular membrane associated with an optic nerve coloboma. *Arch Ophthalmol* 1993;111:441-2.
- [96] Yedavally S, Frank RN. Peripapillary subretinal neovascularization associated with coloboma of the optic nerve. *Arch Ophthalmol* 1993;111:552-3.
- [97] Azuma N, Yamaguchi Y, Handa H, et al. Mutations of the PAX6 gene detected in patients with a variety of optic-nerve malformations. *Am J Hum Genet* 2003;72:1565-70.
- [98] Traboulsi EI. The Marshall M. Parks Memorial Lecture: making sense of early-onset childhood retinal dystrophies - the clinical phenotype of Leber congenital amaurosis. *Br J Ophthalmol* 2010;94:1281-7.
- [99] Graether JM. Transient amaurosis in one eye with simultaneous dilation of retinal veins; in association with a congenital anomaly of the optic nerve head. *Arch Ophthalmol* 1963;70:342-5.
- [100] Longfellow DW, Davis Jr FS, Walsh FB. Unilateral intermittent blindness with dilation of retinal veins; undetermined etiology. *Arch Ophthalmol* 1962;67:554-5.
- [101] Seybold ME, Rosen PN. Peripapillary staphyloma and amaurosis fugax. *Ann Ophthalmol* 1977;9:1139-41.
- [102] Kral K, Svarc D. Contractile peripapillary staphyloma. *Am J Ophthalmol* 1971;71:1090-2.
- [103] Wise JB, MacLean AL, Gass DM. Contractile peripapillary staphyloma. *Arch Ophthalmol* 1966;75:626-30.
- [104] Willis R, Zimmerman LE, O'Grady R, et al. Heterotopic adipose tissue and smooth muscle in the optic disc; association with isolated colobomas. *Arch Ophthalmol* 1972;88:139-46.
- [105] Foster JA, Lam S. Contractile optic disc coloboma. *Arch Ophthalmol* 1991;109:472-3.
- [106] Rieger, G. Zum Krankheitsbild der Handmannschen Sehnervenomalie: Windenbluten-(Morning Glory) Syndrom? *Klin. Mbl. Augenheik* 1977;170:697-706.
- [107] Khan AO, Nowilaty SR. Early diagnosis of the papillorenal syndrome by optic disc morphology. *J Neuroophthalmol* 2005;25:209-11.
- [108] Parsa CF, Goldberg MF, Hunter DG. Papillorenal ("renal coloboma") syndrome. *Am J Ophthalmol* 2002;134:300-1. [author reply 301.]
- [109] Parsa CF, Goldberg MF, Hunter DG. Papillorenal syndrome in a Brazilian family. *Arch Ophthalmol* 2002;120:1772-3. [author reply 1773.]
- [110] Parsa CF, Silva ED, Sundin OH, et al. Redefining papillorenal syndrome: an underdiagnosed cause of ocular and renal morbidity. *Ophthalmology* 2001;108:738-49.
- [111] Samimi S, Antignac C, Combe C, et al. Bilateral macular detachment caused by bilateral optic nerve malformation in a papillorenal syndrome due to a new PAX2 mutation. *Eur J Ophthalmol* 2008;18:656-8.
- [112] Sanyanusin P, Schimmenti LA, McNoe LA, et al. Mutation of the PAX2 gene in a family with optic nerve colobomas, renal anomalies and vesicoureteral reflux. *Nat Genet* 1995;9:358-64.
- [113] Sanyanusin P, McNoe LA, Sullivan MJ, et al. Mutation of PAX2 in two siblings with renal-coloboma syndrome. *Hum Mol Genet* 1995;4:2183-4.
- [114] Schimmenti LA, Pierpont ME, Carpenter BL, et al. Autosomal dominant optic nerve colobomas, vesicoureteral reflux, and renal anomalies. *Am J Med Genet* 1995;59:204-8.
- [115] Alur RP, Vijayarathy C, Brown JD, et al. Papillorenal syndrome-causing missense mutations in PAX2/Pax2 result in hypomorphic alleles in mouse and human. *PLoS Genet* 2010;6:e1000870.
- [116] Yoshimura K, Yoshida S, Yamaji Y, et al. De novo insG619 mutation in PAX2 gene in a Japanese patient with papillorenal syndrome. *Am J Ophthalmol* 2005;139:733-5.
- [117] Schimmenti LA, Manligas GS, Sieving PA. Optic nerve dysplasia and renal insufficiency in a family with a novel PAX2 mutation, Arg115X: further ophthalmologic delineation of the renal-coloboma syndrome. *Ophthalmic Genet* 2003;24:191-202.
- [118] Parsa CF, Parsa A. Diagnosing papillorenal syndrome: see the optic papilla. *Pediatr Nephrol* 2008;23:1893-4.
- [119] Buchanan TAS, Hoyt WF. Temporal visual field defects associated with nasal hypoplasia of the optic disc. *Br J Ophthalmol* 1981;65:636-40.
- [120] Edwards WC, Layden WE. Optic nerve hypoplasia. *Am J Ophthalmol* 1970;70:950-9.
- [121] Frisén L, Holmegaard L. Spectrum of optic nerve hypoplasia. *Br J Ophthalmol* 1978;62:7-15.
- [122] Beuchat L, Safran AB. Optic nerve hypoplasia: Papillary diameter and clinical correlation. *J Clin Neuro-Ophthalmol* 1985;5:249-53.
- [123] Walton DS, Robb RM. Optic nerve hypoplasia; a report of 20 cases. *Arch Ophthalmol* 1970;84:572-8.
- [124] Mosier MA, Lieberman MF, Green WR, et al. Hypoplasia of the optic nerve. *Arch Ophthalmol* 1978;96:1437-42.
- [125] Romano PE. Simple photogrammetric diagnosis of optic nerve hypoplasia. *Arch Ophthalmol* 1989;107:824-6.
- [126] Zeki SM, Dudgeon J, Dutton GN. Reappraisal of the ratio of

- disc to macula/disc diameter in optic nerve hypoplasia. *Br J Ophthalmol* 1991;75:538–41.
- [127] Ragge NK, Hoyt WF, Lambert SR. Big discs with optic nerve hypoplasia. *J Clin Neuro-Ophthalmol* 1991;11:137.
- [128] Barroso LHL, Ragge NK, Hoyt WF. Multiple cilioretinal arteries and dysplasia of the optic disc. *J Clin Neuro-Ophthalmol* 1991; 11:278–9.
- [129] Layman PR, Anderson DR, Flynn JT. Frequent occurrence of hypoplastic optic disks in patients with aniridia. *Am J Ophthalmol* 1974;77:513–6.
- [130] Björk AMA, Laurell C-G, Laurell U. Bilateral optic nerve hypoplasia with normal visual acuity. *Am J Ophthalmol* 1978;86:524–9.
- [131] Kim RY, Hoyt WF, Lessell S, et al. Superior segmental optic hypoplasia; a sign of maternal diabetes. *Arch Ophthalmol* 1989;107:1312–5.
- [132] Petersen RA, Holmes L. Optic nerve hypoplasia in infants of diabetic mothers. *Arch Ophthalmol* 1986;104:1587.
- [133] Takagi M, Abe H, Hatase T, et al. Superior segmental optic nerve hypoplasia in youth. *Jpn J Ophthalmol* 2008;52:468–74.
- [134] Novakovic P, Taylor DSI, Hoyt WF. Localising patterns of optic nerve hypoplasia – retina to occipital lobe. *Br J Ophthalmol* 1988;72:176–82.
- [135] Benner JD, Preslan MW, Gratz E, et al. Septo-optic dysplasia in two siblings. *Am J Ophthalmol* 1990;109:632–7.
- [136] Brodsky MC, Glasier CM. Optic nerve hypoplasia; clinical significance of associated central nervous system abnormalities on magnetic resonance imaging. *Arch Ophthalmol* 1993;111:66–74.
- [137] Brodsky MC, Glasier CM, Pollock SC, et al. Optic nerve hypoplasia; identification by magnetic resonance imaging. *Arch Ophthalmol* 1990;108:1562–7.
- [138] Burke JP, O'Keefe M, Howell R. Optic nerve hypoplasia, encephalopathy, and neurodevelopmental handicap. *Br J Ophthalmol* 1991;75:236–9.
- [139] Margolis S, Aleksic S, Charles N, et al. Retinal and optic nerve findings in Goldenhar–Gorlin syndrome. *Ophthalmology* 1984;91:1327–33.
- [140] Sherlock DA, McNicol LR. Anaesthesia and septo-optic dysplasia; implications of missed diagnosis in the peri-operative period. *Anaesthesia* 1987;42:1302–5.
- [141] Zeki SM. Optic nerve hypoplasia and astigmatism: a new association. *Br J Ophthalmol* 1990;74:297–9.
- [142] Zeki SM. Optic nerve hypoplasia in children. *Br J Ophthalmol* 1990;74:300–4.
- [143] Zeki SM, Hollman AS, Dutton GN. Neuroradiological features of patients with optic nerve hypoplasia. *J Pediatr Ophthalmol Strabismus* 1992;29:107–12.
- [144] Taban M, Cohen BH, David Rothner A, et al. Association of optic nerve hypoplasia with mitochondrial cytopathies. *J Child Neurol* 2006;21:956–60.
- [145] Ahuja Y, Traboulsi EI. Unilateral megalopapilla and contralateral optic nerve hypoplasia: a case report and review of the literature. *J AAPOS* 2010;14:83–4.
- [146] Abdollahi MR, Morrison E, Sirey T, et al. Mutation of the variant alpha-tubulin TUBA8 results in polymicrogyria with optic nerve hypoplasia. *Am J Hum Genet* 2009;85:737–44.
- [147] McCulley TJ, Mayer K, Dahr SS, et al. Aniridia and optic nerve hypoplasia. *Eye (Lond)* 2005;19:762–4.
- [148] Jogiya A, Sandy C. Mild optic nerve hypoplasia with retinal venous tortuosity in aarskog (facial-digital-genital) syndrome. *Ophthalmic Genet* 2005;26:139–41.
- [149] Egan RA. Periodic alternating gaze deviation associated with schizencephaly and optic nerve hypoplasia. *J AAPOS* 2005;9:61–3.
- [150] Lyons C, Castano G, Jan JE, et al. Optic nerve hypoplasia with intracranial arachnoid cyst. *J AAPOS* 2004;8:61–6.
- [151] Abou-Jaoude ES, Stevens JL, Katz NR. Oval-shaped cornea, lens duplication, and optic nerve hypoplasia associated with myelomeningocele. *J AAPOS* 2000;4:377–8.
- [152] Hellstrom A, Wiklund LM, Svensson E. Diagnostic value of magnetic resonance imaging and planimetric measurement of optic disc size in confirming optic nerve hypoplasia. *J AAPOS* 1999;3:104–8.
- [153] Giacipoli G, Guerriero S, Leozappa M, et al. Bilateral microphthalmia with optic nerve hypoplasia and achiasmia. *Ophthalmic Surg Lasers Imaging* 2010 Mar;9:1–3.
- [154] Garcia ML, Ty EB, Taban M, et al. Systemic and ocular findings in 100 patients with optic nerve hypoplasia. *J Child Neurol* 2006;21:949–56.
- [155] Cheung RT, Wong AM. Optic nerve hypoplasia associated with chromosome 9 inversion. *Can J Ophthalmol* 2009;44:610–1.
- [156] Brazitikos PD, Safran AB, Simona F, et al. Threshold perimetry in tilted disc syndrome. *Arch Ophthalmol* 1990;108:1698–700.
- [157] Young SE, Walsh FB, Knox DL. The tilted disk syndrome. *Am J Ophthalmol* 1976;82:16–23.
- [158] Stur M. Congenital tilted disk syndrome associated with parafoveal subretinal neovascularization. *Am J Ophthalmol* 1988;105:98–9.
- [159] Boyce SW, Platia EV, Green WR. Drusen of the optic nerve head. *Ann Ophthalmol* 1978;10:695–704.
- [160] Brodrick JD. Drusen of the disc and retinal haemorrhages. *Br J Ophthalmol* 1973;57:299–306.
- [161] Friedman AH, Beckerman B, Gold DH, et al. Drusen of the optic disc. *Surv Ophthalmol* 1977;21:375–90.
- [162] Friedman AH, Gartner S, Modi SS. Drusen of the optic disc; a retrospective study in cadaver eyes. *Br J Ophthalmol* 1975;59:413–21.
- [163] Friedman AH, Henkind P, Gartner S. Drusen of the optic disc – a histopathological study. *Trans Ophthalmol Soc UK* 1975;95:4–9.
- [164] Hogan MJ, Zimmerman LE. *Ophthalmic pathology; an atlas and textbook*, 2nd ed. Philadelphia: WB Saunders; 1962. p. 580.
- [165] Karel I, Otravec J, Peleska M. Fluorescence angiography in circulatory disturbances in drusen of the optic disk. *Ophthalmologica* 1972;164:449–62.
- [166] Pietruschka G, Priess G. Zur klinischen Bedeutung und Prognose der Drusenpapille. *Klin Monatsbl Augenheilkd* 1973;162:331–41.
- [167] Sacks JG, O'Grady RB, Choromokos E, et al. The pathogenesis of optic nerve drusen; a hypothesis. *Arch Ophthalmol* 1977;95:425–8.
- [168] Hoyt WF, Pont ME. Pseudopapilledema: anomalous elevation of the optic disk; pitfalls in diagnosis and management. *JAMA* 1962;181:191–6.
- [169] Carter JE, Merren MD, Byrne BM. Pseudodrusen of the optic disc; papilledema simulating buried drusen of the optic nerve head. *J Clin Neuro-Ophthalmol* 1989;9:273–6.
- [170] Jonas JB, Gusek GC, Guggenmoos-Holzmann I, et al. Optic nerve head drusen associated with abnormally small optic discs. *Int Ophthalmol* 1987;11:79–82.
- [171] Mullie MA, Sanders MD. Scleral canal size and optic nerve head drusen. *Am J Ophthalmol* 1985;99:356–9.
- [172] Rosenberg MA, Savino PJ, Glaser JS. A clinical analysis of pseudopapilledema. I. Population, laterality, acuity, refractive error, ophthalmoscopic characteristics, and coincident disease. *Arch Ophthalmol* 1979;97:65–70.
- [173] Spencer WH. Drusen of the optic disc and aberrant axoplasmic transport. *Am J Ophthalmol* 1978;85:1–12.
- [174] Kelley JS, Hoover RE, Robin A, et al. Laser scotometry in drusen

- and pits of the optic nerve head. *Ophthalmology* 1979;86:442-7.
- [175] Lansche RK, Rucker CW. Progression of defects in visual fields produced by hyaline bodies in optic disks. *Arch Ophthalmol* 1957;58:115-21.
- [176] Rucker CW. Defects in visual fields produced by hyaline bodies in the optic disks. *Arch Ophthalmol* 1944;32:56-9.
- [177] Stevens RA, Newman NM. Abnormal visual-evoked potentials from eyes with optic nerve head drusen. *Am J Ophthalmol* 1981;92:857-62.
- [178] Scholl GB, Song H-S, Winkler DE, et al. The pattern visual evoked potential and pattern electroretinogram in drusen-associated optic neuropathy. *Arch Ophthalmol* 1992;110:75-81.
- [179] Knight CL, Hoyt WF. Monocular blindness from drusen of the optic disk. *Am J Ophthalmol* 1972;73:890-2.
- [180] Boldt HC, Bryne SF, DiBernardo C. Echographic evaluation of optic disc drusen. *J Clin Neuro-Ophthalmol* 1991;11:85-91.
- [181] Chern S, Magargal LE, Annesley WH. Central retinal vein occlusion associated with drusen of the optic disc. *Ann Ophthalmol* 1991;23:66-9.
- [182] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 372.
- [183] Gittinger Jr JW, Lessell S, Bondar RL. Ischemic optic neuropathy associated with optic disc drusen. *J Clin Neuro-Ophthalmol* 1984;4:79-84.
- [184] Michaelson C, Behrens M, Odel J. Bilateral anterior ischaemic optic neuropathy associated with optic disc drusen and systemic hypotension. *Br J Ophthalmol* 1989;73:762-4.
- [185] Moody TA, Irvine AR, Cahn PH, et al. Sudden visual field constriction associated with optic disc drusen. *J Clin Neuro-Ophthalmol* 1993;13:8-13.
- [186] Sarkies NJ, Sanders MD. Optic disc drusen and episodic visual loss. *Br J Ophthalmol* 1987;71:537-9.
- [187] Mansour AM, Shoch D, Logani S. Optic disc size in ischemic optic neuropathy. *Am J Ophthalmol* 1988;106:587-9.
- [188] Newman NJ, Lessell S, Brandt EM. Bilateral central retinal artery occlusions, disk drusen, and migraine. *Am J Ophthalmol* 1989;107:236-40.
- [189] Purcell Jr JJ, Goldberg RE. Hyaline bodies of the optic papilla and bilateral acute vascular occlusions. *Ann Ophthalmol* 1974;6:1069-76.
- [190] Purvin V, King R, Kawasaki A, et al. Anterior ischemic optic neuropathy in eyes with optic disc drusen. *Arch Ophthalmol* 2004;122:48-53.
- [191] Harris MJ, Fine SL, Owens SL. Hemorrhagic complications of optic nerve drusen. *Am J Ophthalmol* 1981;92:70-6.
- [192] Hitchings RA, Corbett JJ, Winkleman J, et al. Hemorrhages with optic nerve drusen; a differentiation from early papilledema. *Arch Neurol* 1976;33:675-7.
- [193] Mooney D. Bilateral haemorrhages associated with disc drusen. *Trans Ophthalmol Soc UK* 1973;93:739-43.
- [194] Rubinstein K, Ali M. Retinal complications of optic disc drusen. *Br J Ophthalmol* 1982;66:83-95.
- [195] Sanders TE, Gay AJ, Newman M. Hemorrhagic complications of drusen of the optic disk. *Am J Ophthalmol* 1971;71:204-17.
- [196] Wise GN, Henkind P, Alterman M. Optic disc drusen and subretinal hemorrhage. *Trans Am Acad Ophthalmol Otolaryngol* 1974;78:OP212-OP219.
- [197] Gordon GE, Heron G, Dutton GN. The Pulfrich phenomenon in optic disc drusen. *Br J Ophthalmol* 2008;92:434-5.
- [198] Gartner S. Drusen of the optic disk in retinitis pigmentosa. *Am J Ophthalmol* 1987;103:845.
- [199] Kelley JS. Autofluorescence of drusen of the optic nerve head. *Arch Ophthalmol* 1974;92:263-4.
- [200] Wilhelm JL, Gutman FA. Macular choroidal neovascular membrane with bilateral optic nerve drusen: case report. *Ann Ophthalmol* 1983;15:48-51.
- [201] Reifler DM, Kaufman DI. Optic disk drusen and pseudotumor cerebri. *Am J Ophthalmol* 1988;106:95-6.
- [202] Hoover DL, Robb RM, Petersen RA. Optic disc drusen and primary megalencephaly in children. *J Pediatr Ophthalmol Strabismus* 1989;26:81-5.
- [203] Moisseiev J, Cahane M, Treister G. Optic nerve head drusen and peripapillary central serous chorioretinopathy. *Am J Ophthalmol* 1989;108:202-3.
- [204] Walsh FB, Hoyt WF. *Clinical neuro-ophthalmology*, 3rd ed. Baltimore: Williams & Wilkins; 1974. p. 673.
- [205] Sanders MD, Ffytche TJ. Fluorescein angiography in the diagnosis of drusen of the disc. *Trans Ophthalmol Soc UK* 1967;87:457-68.
- [206] Spencer TS, Katz BJ, Weber SW, et al. Progression from anomalous optic discs to visible optic disc drusen. *J Neuroophthalmol* 2004;24:297-8.
- [207] Sadun AA, Green RL, Nobe JR, et al. Papillopathies associated with unusual calcifications in the retrolaminar optic nerve. *J Clin Neuro-Ophthalmol* 1991;11:175-80.
- [208] Bec P, Adam P, Mathis A, et al. Optic nerve head drusen; high-resolution computed tomographic approach. *Arch Ophthalmol* 1984;102:680-2.
- [209] Frisén L, Schöldström G, Svendsen P. Drusen in the optic nerve head; verification by computerized tomography. *Arch Ophthalmol* 1978;96:1611-4.
- [210] Gass JDM. Diseases of the optic nerve that may simulate macular disease. *Trans Am Acad Ophthalmol Otolaryngol* 1977;83:OP763-OP770.
- [211] Kamin DF, Hepler RS, Foos RY. Optic nerve drusen. *Arch Ophthalmol* 1973;89:359-62.
- [212] Tso MOM. Pathology and pathogenesis of drusen of the optic nervehead. *Ophthalmology* 1981;88:1066-80.
- [213] Wilkins JM, Pomeranz HD. Visual manifestations of visible and buried optic disc drusen. *J Neuroophthalmol* 2004;24:125-9.
- [214] Berninger TA, Jaeger W, Krastel H. Electrophysiology and colour perimetry in dominant infantile optic atrophy. *Br J Ophthalmol* 1991;75:49-52.
- [215] Caldwell JBH, Howard RO, Riggs LA. Dominant juvenile optic atrophy; a study in two families and review of hereditary disease in childhood. *Arch Ophthalmol* 1971;85:133-47.
- [216] Glaser JS. Heredofamilial disorders of the optic nerve. In: Goldberg MF, editor. *Genetic and metabolic eye disease*. Boston: Little, Brown; 1974. p. 463-86.
- [217] Kjer P. Infantile optic atrophy with dominant mode of inheritance; a clinical and genetic study of 19 Danish families. *Acta Ophthalmol Suppl* 1959;164(Suppl. 54):1-147.
- [218] Kline LB, Glaser JS. Dominant optic atrophy; the clinical profile. *Arch Ophthalmol* 1979;97:1680-6.
- [219] Krill AE, Smith VC, Pokorny J. Further studies supporting the identity of congenital tritanopia and hereditary dominant optic atrophy. *Invest Ophthalmol* 1971;10:457-65.
- [220] Manchester Jr PT, Calhoun Jr FP. Dominant hereditary optic atrophy with bitemporal field defects. *Arch Ophthalmol* 1958;60:479-84.
- [221] Weleber RG, Miyake Y. Familial optic atrophy with negative electroretinograms. *Arch Ophthalmol* 1992;110:640-5.
- [222] Thiselton DL, Alexander C, Taanman JW, et al. A comprehensive survey of mutations in the OPA1 gene in patients with autosomal dominant optic atrophy. *Invest Ophthalmol Vis Sci* 2002;43:1715-24.
- [223] Delettre C, Lenaers G, Griffioen JM, et al. Nuclear gene OPA1, encoding a mitochondrial dynamin-related protein, is mutated in

- dominant optic atrophy. *Nat Genet* 2000;26:207–10.
- [224] Alexander C, Votruba M, Pesch UE, et al. OPA1, encoding a dynamin-related GTPase, is mutated in autosomal dominant optic atrophy linked to chromosome 3q28. *Nat Genet* 2000;26:211–5.
- [225] Jonasdottir A, Eiberg H, Kjer B, et al. Refinement of the dominant optic atrophy locus (OPA1) to a 1.4-cM interval on chromosome 3q28-3q29, within a 3-Mb YAC contig. *Hum Genet* 1997;99:115–20.
- [226] Liguori M, La Russa A, Manna I, et al. A phenotypic variation of dominant optic atrophy and deafness (ADOAD) due to a novel OPA1 mutation. *J Neurol* 2008;255:127–9.
- [227] Cohn AC, Toomes C, Potter C, et al. Autosomal dominant optic atrophy: penetrance and expressivity in patients with OPA1 mutations. *Am J Ophthalmol* 2007;143:656–62.
- [228] Han J, Thompson-Lowrey AJ, Reiss A, et al. OPA1 mutations and mitochondrial DNA haplotypes in autosomal dominant optic atrophy. *Genet Med* 2006;8:217–25.
- [229] Zanna C, Ghelli A, Porcelli AM, et al. OPA1 mutations associated with dominant optic atrophy impair oxidative phosphorylation and mitochondrial fusion. *Brain* 2008;131:352–67.
- [230] Cohn AC, Toomes C, Hewitt AW, et al. The natural history of OPA1-related autosomal dominant optic atrophy. *Br J Ophthalmol* 2008;92:1333–6.
- [231] Johns DR, Heher KL, Miller NR, et al. Leber's hereditary optic neuropathy; clinical manifestations of the 14484 mutation. *Arch Ophthalmol* 1993;111:495–8.
- [232] Leber T. Ueber hereditäre und congenital-angelegte Sehnervenleiden. *Albrecht von Graefes Arch Ophthalmol* 1871;17:249–91.
- [233] van Heuven GJ. Die Diagnose der hereditären Leberschen Sehnervenatrophie (abstract). *Klin Monatsbl Augenheilkd* 1924;73:252–3.
- [234] Tong Y, Sun YH, Zhou X, et al. Very low penetrance of Leber's hereditary optic neuropathy in five Han Chinese families carrying the ND1 G3460A mutation. *Mol Genet Metab* 2010;99:417–24.
- [235] Qu J, Zhou X, Zhang J, et al. Extremely low penetrance of Leber's hereditary optic neuropathy in 8 Han Chinese families carrying the ND4 G11778A mutation. *Ophthalmology* 2009;116:558–64.
- [236] Kerrison JB. Latent, acute, and chronic Leber's hereditary optic neuropathy. *Ophthalmology* 2005;112:1–2.
- [237] Tanaka A, Kiyosawa M, Mashima Y, et al. A family with Leber's hereditary optic neuropathy with mitochondrial DNA heteroplasmy related to disease expression. *J Neuroophthalmol* 1998;18:81–3.
- [238] Miller NR. Walsh and Hoyt's clinical neuro-ophthalmology, 4th ed. Baltimore: Williams and Wilkins; 1982. p. 212–26.
- [239] Nikoskelainen E, Sogg RL, Rosenthal AR, et al. The early phase in Leber hereditary optic atrophy. *Arch Ophthalmol* 1977;95:969–78.
- [240] Smith JL, Hoyt WF, Susac JO. Ocular fundus in acute Leber optic neuropathy. *Arch Ophthalmol* 1973;90:349–54.
- [241] Nikoskelainen E, Hoyt WF, Nummelin K. Ophthalmoscopic findings in Leber's hereditary optic neuropathy. II. The fundus findings in the affected family members. *Arch Ophthalmol* 1983;101:1059–68.
- [242] Borruat F-X, Green WT, Graham EM, et al. Late onset Leber's optic neuropathy: a case confused with ischaemic optic neuropathy. *Br J Ophthalmol* 1992;76:571–3.
- [243] Goyal S, Riordan-Eva P, Coakes RL. Late onset of Leber's hereditary optic neuropathy precipitated by anaemia. *Eye (Lond)* 2004;18:1017–8.
- [244] Luke C, Cornely OA, Fricke J, et al. Late onset of Leber's hereditary optic neuropathy in HIV infection. *Br J Ophthalmol* 1999;83:1204–5.
- [245] Ajax ET, Kardon R. Late-onset Leber's hereditary optic neuropathy. *J Neuroophthalmol* 1998;18:30–1.
- [246] Lopez PF, Smith JL. Leber's optic neuropathy; new observations. *J Clin Neuro-Ophthalmol* 1986;6:144–52.
- [247] Sanders MD, Riordan-Eva P. Difficulties in interpreting optic disc fluorescein leakage in Leber's hereditary optic neuropathy. *J Neuroophthalmol* 1997;17:143.
- [248] Stone EM, Newman NJ, Miller NR, et al. Visual recovery in patients with Leber's hereditary optic neuropathy and the 11778 mutation. *J Clin Neuro-Ophthalmol* 1992;12:10–14.
- [249] Barboni P, Carbonelli M, Savini G, et al. Natural history of Leber's hereditary optic neuropathy: longitudinal analysis of the retinal nerve fiber layer by optical coherence tomography. *Ophthalmology* 2010;117:623–7.
- [250] Acaroglu G, Kansu T, Dogulu CF. Visual recovery patterns in children with Leber's hereditary optic neuropathy. *Int Ophthalmol* 2001;24:349–55.
- [251] Yamada K, Mashima Y, Kigasawa K, et al. High incidence of visual recovery among four Japanese patients with Leber's hereditary optic neuropathy with the 14484 mutation. *J Neuroophthalmol* 1997;17:103–7.
- [252] Nagai A, Nakamura M, Kusuhara S, et al. Unilateral manifestation of Leber's hereditary optic neuropathy after blunt ocular trauma. *Jpn J Ophthalmol* 2005;49:65–7.
- [253] Redmill B, Mutamba A, Tandon M. Leber's hereditary optic neuropathy following trauma. *Eye (Lond)* 2001;15:544–7.
- [254] de Gottrau P, Büchi ER, Daicker B. Distended optic nerve sheaths in Leber's hereditary optic neuropathy. *J Clin Neuro-Ophthalmol* 1992;12:89–93.
- [255] Smith JL, Tse DT, Bryne SF, et al. Optic nerve sheath distention in Leber's optic neuropathy and the significance of the "Wallace" mutation. *J Clin Neuro-Ophthalmol* 1990;10:231–8.
- [256] Kwitken J, Barest HD. The neuropathology of hereditary optic atrophy (Leber's disease); the first complete anatomic study. *Am J Pathol* 1958;34:185–207.
- [257] Nikoskelainen EK, Savontaus M-L, Wanne OP, et al. Leber's hereditary optic neuroretinopathy, a maternally inherited disease; a genealogic study in four pedigrees. *Arch Ophthalmol* 1987;105:665–71.
- [258] Ortiz RG, Newman NJ, Manoukian SV, et al. Optic disk cupping and electrocardiographic abnormalities in an American pedigree with Leber's hereditary optic neuropathy. *Am J Ophthalmol* 1992;113:561–6.
- [259] Finsterer J, Stollberger C, Kopsa W, et al. Wolff-Parkinson-White syndrome and isolated left ventricular abnormal trabeculation as a manifestation of Leber's hereditary optic neuropathy. *Can J Cardiol* 2001;17:464–6.
- [260] Wallace DC. A new manifestation of Leber's disease and a new explanation for the agency responsible for its unusual pattern of inheritance. *Brain* 1970;93:121–32.
- [261] McCluskey DAJ, O'Connor PS, Sheehy JT. Leber's optic neuropathy and Charcot-Marie-Tooth disease; report of a case. *J Clin Neuro-Ophthalmol* 1986;6:76–81.
- [262] McLeod JG, Low PA, Morgan JA. Charcot-Marie-Tooth disease with Leber optic atrophy. *Neurology* 1978;28:179–84.
- [263] Uemura A, Osame M, Nakagawa M, et al. Leber's hereditary optic neuropathy: mitochondrial and biochemical studies on muscle biopsies. *Br J Ophthalmol* 1987;71:531–6.
- [264] Wallace DC, Singh G, Lott MT, et al. Mitochondrial DNA mutation associated with Leber's hereditary optic neuropathy. *Science* 1988;242:1427–30.
- [265] Nikoskelainen E, Hoyt WF, Nummelin K. Ophthalmoscopic findings in Leber's hereditary optic neuropathy. I. Fundus



- findings in asymptomatic family members. *Arch Ophthalmol* 1982;100:1597–602.
- [266] Nikoskelainen E, Hoyt WF, Nummelin K, et al. Fundus findings in Leber's hereditary optic neuroretinopathy. III. Fluorescein angiographic studies. *Arch Ophthalmol* 1984;102:981–9.
- [267] Stehouwer A, Oosterhuis JA, Renger-van Dijk AH, et al. Leber's optic neuropathy. II. Fluorescein angiographic studies. *Doc Ophthalmol* 1982;53:113–22.
- [268] Jacobson DM, Stone EM. Difficulty differentiating Leber's from dominant optic neuropathy in a patient with remote visual loss. *J Clin Neuro-Ophthalmol* 1991;11:152–7.
- [269] Johns DR. The molecular genetics of Leber's hereditary optic neuropathy. *Arch Ophthalmol* 1990;108:1405–6.
- [270] Johns DR, Smith KH, Miller NR. Leber's hereditary optic neuropathy; clinical manifestations of the 3460 mutation. *Arch Ophthalmol* 1992;110:1577–81.
- [271] Lott MT, Voljavec AS, Wallace DC. Variable genotype of Leber's hereditary optic neuropathy patients. *Am J Ophthalmol* 1990;109:625–31.
- [272] Newman NJ, Lott MT, Wallace DC. The clinical characteristics of pedigrees of Leber's hereditary optic neuropathy with the 11778 mutation. *Am J Ophthalmol* 1991;111:750–62.
- [273] Newman NJ, Wallace DC. Mitochondria and Leber's hereditary optic neuropathy. *Am J Ophthalmol* 1990;109:726–30.
- [274] Singh G, Lott MT, Wallace DC. A mitochondrial DNA mutation as a cause of Leber's hereditary optic neuropathy. *N Engl J Med* 1989;320:1300–5.
- [275] Johns DR, Smith KH, Savino PJ, et al. Leber's hereditary optic neuropathy; clinical manifestations of the 15257 mutation. *Ophthalmology* 1993;100:981–6.
- [276] Man PY, Howell N, Mackey DA, et al. Mitochondrial DNA haplogroup distribution within Leber hereditary optic neuropathy pedigrees. *J Med Genet* 2004;41:e41.
- [277] Howell N, Mackey DA. Low-penetrance branches in matrilineal pedigrees with Leber hereditary optic neuropathy. *Am J Hum Genet* 1998;63:1220–4.
- [278] Howell N, Kubacka I, Halvorson S, et al. Phylogenetic analysis of the mitochondrial genomes from Leber hereditary optic neuropathy pedigrees. *Genetics* 1995;140:285–302.
- [279] Mackey DA. Three subgroups of patients from the United Kingdom with Leber hereditary optic neuropathy. *Eye (Lond)* 1994;8:431–6.
- [280] Mackey DA, Buttery RG. Leber hereditary optic neuropathy in Australia. *Aust N Z J Ophthalmol* 1992;20:177–84.
- [281] Berninger TA, von Meyer L, Siess E, et al. Leber's hereditary optic atrophy: further evidence for a defect of cyanide metabolism? *Br J Ophthalmol* 1989;73:314–6.
- [282] Leber T. Die pseudonephritischen Netzhauterkrankungen, die Retinitis stellata; die Purtschersche Netzhautaffektion nach schwerer Schädelverletzung. In: Graefe AC, Saemisch T, editors. *Graefe-Saemisch Handbuch der Augenheilkunde*, 2nd ed. Leipzig: Engleermann; 1916. p. 1349–59.
- [283] Dreyer RF, Hopen G, Gass JDM, et al. Leber's idiopathic stellate neuroretinitis. *Arch Ophthalmol* 1984;102:1140–5.
- [284] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 2nd ed. St. Louis: CV Mosby; 1977. p. 376.
- [285] Carroll DM, Franklin RM. Leber's idiopathic stellate retinopathy. *Am J Ophthalmol* 1982;93:96–101.
- [286] François J, Verriest G, De Laey JJ. Leber's idiopathic stellate retinopathy. *Am J Ophthalmol* 1969;68:340–5.
- [287] Glaser JS. Topical diagnosis: prechiasmal visual pathways. In: Glaser JS, editor. *Neuro-ophthalmology*, 2nd ed. Philadelphia: JB Lippincott; 1990. p. 126.
- [288] Maitland CG, Miller NR. Neuroretinitis. *Arch Ophthalmol* 1984;102:1146–50.
- [289] Miller NR. Walsh and Hoyt's clinical neuro-ophthalmology, 4th ed. Baltimore: Williams & Wilkins; 1982. p. 234.
- [290] Papastratigakis B, Stavrakas E, Phanouriakis C, et al. Leber's idiopathic stellate maculopathy. *Ophthalmologica* 1981;183:68–71.
- [291] Gass JDM. Fluorescein angiography in endogenous intraocular inflammation. In: Aronson SB, Gamble CN, Goodner EK, editors. *Clinical methods in uveitis: the Fourth Sloan Symposium on Uveitis*. St. Louis: CV Mosby; 1968. p. 214–5.
- [292] Gass JDM. *Stereoscopic atlas of macular diseases; diagnosis and treatment*, 3rd ed. St. Louis: CV Mosby; 1987. p. 748–49.
- [293] Goldstein BG, Pavan PR. Retinal infiltrates in six patients with an associated viral syndrome. *Retina* 1985;5:144–50.
- [294] Carithers HA, Margileth AM. Cat-scratch disease; acute encephalopathy and other neurologic manifestations. *Am J Dis Child* 1991;145:98–101.
- [295] Foster RE, Gutman FA, Meyers SM, et al. Acute multifocal inner retinitis. *Am J Ophthalmol* 1991;111:673–81.
- [296] Bar S, Segal M, Shapira R, et al. Neuroretinitis associated with cat scratch disease. *Am J Ophthalmol* 1990;110:703–5.
- [297] Brazis PW, Stokes HR, Ervin FR. Optic neuritis in cat scratch disease. *J Clin Neuro-Ophthalmol* 1986;6:172–4.
- [298] Chrousos GA, Drack AV, Young M, et al. Neuroretinitis in cat scratch disease. *J Clin Neuro-Ophthalmol* 1990;10:92–4.
- [299] Fish RH, Hogan RN, Nightingale SD, et al. Peripapillary angiomatosis associated with cat-scratch neuroretinitis. *Arch Ophthalmol* 1992;110:323.
- [300] Ulrich GG, Waecker Jr NJ, Meister SJ, et al. Cat scratch disease associated with neuroretinitis in a 6-year-old girl. *Ophthalmology* 1992;99:246–9.
- [301] Weiss AH, Beck RW. Neuroretinitis in childhood. *J Pediatr Ophthalmol* 1989;26:198–203.
- [302] Lesser RL, Kornmehl EW, Pachner AR, et al. Neuro-ophthalmologic manifestations of Lyme disease. *Ophthalmology* 1990;97:699–706.
- [303] Purvin VA, Chioran G. Recurrent neuroretinitis. *Arch Ophthalmol* 1994;112:365–71.
- [304] de Brouwer AP, van Bokhoven H, Nabuurs SB, et al. PRPS1 mutations: four distinct syndromes and potential treatment. *Am J Hum Genet* 2010;86:506–18.
- [305] Chung KW, Kim SB, Park KD, et al. Early onset severe and late-onset mild Charcot-Marie-Tooth disease with mitofusin 2 (MFN2) mutations. *Brain* 2006;129:2103–18.
- [306] Ippel EF, Wittebol-Post D, Jennekens FG, et al. Genetic heterogeneity of hereditary motor and sensory neuropathy type VI. *J Child Neurol* 1995;10:459–63.
- [307] Katz BJ, Zhao Y, Warner JE, et al. A family with X-linked optic atrophy linked to the OPA2 locus Xp11.4-Xp11.2. *Am J Med Genet A* 2006;140:2207–11.
- [308] Sugano M, Hirayama K, Saito T, et al. Optic atrophy, sensorineural hearing loss and polyneuropathy – a case of sporadic Rosenberg-Chutorian syndrome. *Fukushima J Med Sci* 1992;38:57–65.
- [309] McCluskey DJ, O'Connor PS, Sheehy JT. Leber's optic neuropathy and Charcot-Marie-Tooth disease. Report of a case. *J Clin Neuroophthalmol* 1986;6:76–81.
- [310] Hoyt WF. Charcot-Marie-Tooth disease with primary optic atrophy; report of a case. *Arch Ophthalmol* 1960;64:925–8.
- [311] Alvarez E, Ferrer T, Perez-Conde C, et al. Evaluation of congenital dysautonomia other than Riley-Day syndrome. *Neuropediatrics* 1996;27:26–31.
- [312] Newman NJ, Bioussé V. Hereditary optic neuropathies. *Eye (Lond)* 2004;18:1144–60.

- [313] Groom M, Kay MD, Corrent GF. Optic neuropathy in familial dysautonomia. *J Neuroophthalmol* 1997;17:101–2.
- [314] Rizzo III JF, Lessell S, Liebman SD. Optic atrophy in familial dysautonomia. *Am J Ophthalmol* 1986;102:463–7.
- [315] Garcher C, Humbert P, Bron A, et al. Neuropathie optique et syndrome de Parry–Romberg. A propos d'un cas. *J Fr Ophtalmol* 1990;13:557–61.
- [316] Gass JDM. Differential diagnosis of intraocular tumors; a stereoscopic presentation. St. Louis: CV Mosby; 1974. p. 256.
- [317] Gass JDM, Harbin Jr TS, Del Piero EJ. Exudative stellate neuroretinopathy and Coats' syndrome in patients with progressive hemifacial atrophy. *Eur J Ophthalmol* 1991;1:2–10.
- [318] Josten K. Sclérodemie en coup de sabre und Auge. *Klin Monatsbl Augenheilkd* 1958;133:567–70.
- [319] Meunier A, Toussaint D. Sclérodemie en “coup de sabre” avec lesion du fond d'oeil. *Bull Soc Belge Ophtalmol* 1958;118:369–77.
- [320] Parry CH. Collections from the unpublished medical writings of the late Caleb Hillier Parry, MD, FRS. London: Underwoods; 1825. p. 478.
- [321] Romberg MH. *Klinische Ergebnisse*. Berlin: A. Forstner; 1846. p. 75.
- [322] Wartenberg R. Progressive facial hemiatrophy. *Arch Neurol Psychiatr* 1945;54:75–96.
- [323] Takenouchi T, Solomon GE. Alien hand syndrome in Parry–Romberg syndrome. *Pediatr Neurol* 2010;42:280–2.
- [324] Qureshi UA, Wani NA, Altaf U. Parry–Romberg syndrome associated with unusual intracranial vascular malformations and Phthisis bulbi. *J Neurol Sci* 2010;291:107–9.
- [325] Menascu S, Padeh S, Hoffman C, et al. Parry–Romberg syndrome presenting as status migrainosus. *Pediatr Neurol* 2009;40:321–3.
- [326] Longo D, Paonessa A, Specchio N, et al. Parry–Romberg syndrome and Rasmussen encephalitis: Possible association. Clinical and neuroimaging features. *J Neuroimaging* 2009 Jun; 23.
- [327] Shah JR, Juhasz C, Kupsky WJ, et al. Rasmussen encephalitis associated with Parry–Romberg syndrome. *Neurology* 2003;61:395–7.
- [328] Pichiecchio A, Uggetti C, Grazia Egitto M, et al. Parry–Romberg syndrome with migraine and intracranial aneurysm. *Neurology* 2002;59:606–8. [discussion 481.]
- [329] Miedzkiak AI, Stefanyzyn M, Flanagan J, et al. Parry–Romberg syndrome associated with intracranial vascular malformations. *Arch Ophthalmol* 1998;116:1235–7.
- [330] Catala M. Progressive intracranial aneurysmal disease in a child with progressive hemifacial atrophy (Parry–Romberg disease): case report. *Neurosurgery* 1998;42:1195–6.
- [331] Scope A, Barzilai A, Trau H, et al. Parry–Romberg syndrome and sympathectomy – a coincidence? *Cutis* 2004;73:343–6.
- [332] Aynaci FM, Sen Y, Erdol H, et al. Parry–Romberg syndrome associated with Adie's pupil and radiologic findings. *Pediatr Neurol* 2001;25:416–8.
- [333] Slimani S, Hounas F, Ladjouze-Rezig A. Multiple linear sclerodermas with a diffuse Parry–Romberg syndrome. *Joint Bone Spine* 2009;76:114–6.
- [334] Echenne B, Sebire G. Parry–Romberg syndrome and linear scleroderma en coup de sabre mimicking Rasmussen encephalitis. *Neurology* 2007;69:2274. [author reply.]
- [335] Carreno M, Donaire A, Barcelo MI, et al. Parry Romberg syndrome and linear scleroderma in coup de sabre mimicking Rasmussen encephalitis. *Neurology* 2007;68:1308–10.
- [336] Gonul M, Dogan B, Izci Y, et al. Parry–Romberg syndrome in association with anti-dsDNA antibodies: a case report. *J Eur Acad Dermatol Venereol* 2005;19:740–2.
- [337] Buonaccorsi S, Leonardi A, Covelli E, et al. Parry–Romberg syndrome. *J Craniofac Surg* 2005;16:1132–5.
- [338] Beck RW, Savino PJ, Repka MX, et al. Optic disc structure in anterior ischemic optic neuropathy. *Ophthalmology* 1984;91:1334–7.
- [339] Boghen DR, Glaser JS. Ischaemic optic neuropathy; the clinical profile and natural history. *Brain* 1975;98:689–708.
- [340] Eagling EM, Sanders MD, Miller SJH. Ischaemic papillopathy; clinical and fluorescein angiographic review of forty cases. *Br J Ophthalmol* 1974;58:990–1008.
- [341] Ellenberger Jr C. Ischemic optic neuropathy as a possible early complication of vascular hypertension. *Am J Ophthalmol* 1979;88:1045–51.
- [342] Ellenberger Jr C, Keltner JL, Burde RM. Acute optic neuropathy in older patients. *Arch Neurol* 1973;28:182–5.
- [343] Feit RH, Tomsak RL, Ellenberger Jr C. Structural factors in the pathogenesis of ischemic optic neuropathy. *Am J Ophthalmol* 1984;98:105–8.
- [344] Hayreh SS. Anterior ischemic optic neuropathy. V. Optic disc edema an early sign. *Arch Ophthalmol* 1981;99:1030–40.
- [345] Lavin PJM, Ellenberger Jr C. Recurrent ischemic optic neuropathy. *Neuro-Ophthalmol* 1983;3:193–8.
- [346] Repka MX, Savino PJ, Schatz NJ, et al. Clinical profile and long-term implications of anterior ischemic optic neuropathy. *Am J Ophthalmol* 1983;96:478–83.
- [347] Kline LB. Progression of visual defects in ischemic optic neuropathy. *Am J Ophthalmol* 1988;106:199–203.
- [348] Traustason OI, Feldon SE, Leemaster JE, et al. Anterior ischemic optic neuropathy: classification of field defects by OctopusTM automated static perimetry. *Graefes Arch Clin Exp Ophthalmol* 1988;226:206–12.
- [349] Arnold AC, Hepler RS. Fluorescein angiography in acute nonarteritic anterior ischemic optic neuropathy. *Am J Ophthalmol* 1994;117:220–30.
- [350] Smith JL. Pseudohemangioma of the optic disc following ischemic optic neuropathy. *J Clin Neuro-Ophthalmol* 1985;5:81–9.
- [351] Aiello AL, Sadun AA, Feldon SE. Spontaneous improvement of progressive anterior ischemic optic neuropathy: report of two cases. *Arch Ophthalmol* 1992;110:1197–9.
- [352] Barrett DA, Glaser JS, Schatz NJ, et al. Spontaneous recovery of vision in progressive anterior ischemic optic neuropathy. *J Clin Neuro-Ophthalmol* 1992;12:219–25.
- [353] Johnson LN, Arnold AC. Incidence of nonarteritic and arteritic ischemic optic neuropathy; population-based study in the state of Missouri and Los Angeles County, California. *J Neuro-Ophthalmol* 1994;14:38–44.
- [354] Rizzo III JF, Lessell S. Optic neuritis and ischemic optic neuropathy; overlapping clinical profiles. *Arch Ophthalmol* 1991;109:1668–72.
- [355] Wall M, Newman SA. Optic nerve sheath decompression for the treatment of progressive nonarteritic ischemic optic neuropathy. *Am J Ophthalmol* 1991;112:741.
- [356] Borchert M, Lessell S. Progressive and recurrent nonarteritic anterior ischemic optic neuropathy. *Am J Ophthalmol* 1988;106:443–9.
- [357] Hamed LM, Purvin V, Rosenberg M. Recurrent anterior ischemic optic neuropathy in young adults. *J Clin Neuro-Ophthalmol* 1988;8:239–46.
- [358] Burde RM. Optic disk risk factors for nonarteritic anterior ischemic optic neuropathy. *Am J Ophthalmol* 1993;116:759–64.
- [359] Beri M, Klugman MR, Kohler JA, et al. Anterior ischemic optic neuropathy. VII. Incidence of bilaterality and various influencing factors. *Ophthalmology* 1987;94:1020–8.

- [360] Brown GC. Anterior ischemic optic neuropathy occurring in association with carotid artery obstruction. *J Clin Neuro-Ophthalmol* 1986;6:39-42.
- [361] Fry CL, Carter JE, Kanter MC, et al. Anterior ischemic optic neuropathy is not associated with carotid artery atherosclerosis. *Stroke* 1993;24:539-42.
- [362] Schmidt D, Richter T, von Reutern G-M, et al. Akute Durchblutungsstörungen des Auges; Klinische Befunde und Ergebnisse der Doppler-Sonographie der A. carotis Interna. *Fortsch Ophthalmol* 1991;88:84-98.
- [363] Chung SM, Gay CA, McCrary III JA. Nonarteritic ischemic optic neuropathy; the impact of tobacco use. *Ophthalmology* 1994;101:779-82.
- [364] Beck RW, Servais GE, Hayreh SS. Anterior ischemic optic neuropathy. IX. Cup-to-disc ratio and its role in pathogenesis. *Ophthalmology* 1987;94:1503-8.
- [365] Katz B, Spencer WH. Hyperopia as a risk factor for nonarteritic anterior ischemic optic neuropathy. *Am J Ophthalmol* 1993;116:754-8.
- [366] Naumann GOH, Jonas J. Optic disk size in ischemic optic neuropathy. *Am J Ophthalmol* 1989;107:685.
- [367] Hamed LM, Winward KE, Glaser JS, et al. Optic neuropathy in uremia. *Am J Ophthalmol* 1989;108:30-5.
- [368] Knox DL, Hanneken AM, Hollows FC, et al. Uremic optic neuropathy. *Arch Ophthalmol* 1988;106:50-4.
- [369] Beck RW, Gamel JW, Willcourt RJ, et al. Acute ischemic optic neuropathy in severe preeclampsia. *Am J Ophthalmol* 1980;90:342-6.
- [370] Jaffe G, Schatz H. Ocular manifestations of preeclampsia. *Am J Ophthalmol* 1987;103:309-15.
- [371] Lieberman MF, Shahi A, Green WR. Embolic ischemic optic neuropathy. *Am J Ophthalmol* 1978;86:206-10.
- [372] Portnoy SL, Beer PM, Packer AJ, et al. Embolic anterior ischemic optic neuropathy. *J Clin Neuro-Ophthalmol* 1989;9:21-5.
- [373] Tomsak RL. Ischemic optic neuropathy associated with retinal embolism. *Am J Ophthalmol* 1985;99:590-2.
- [374] Hayreh SS. Anterior ischemic optic neuropathy. VIII. Clinical features and pathogenesis of post-hemorrhagic amaurosis. *Ophthalmology* 1987;94:1488-502.
- [375] Johnson MW, Kincaid MC, Trobe JD. Bilateral retrobulbar optic nerve infarctions after blood loss and hypotension; a clinicopathologic case study. *Ophthalmology* 1987;94:1577-84.
- [376] Golnik KC, Newman SA. Anterior ischemic optic neuropathy associated with macrocytic anemia. *J Clin Neuro-Ophthalmol* 1990;10:244-7.
- [377] Gartner S. Optic neuritis and macular edema following cataract extraction. *Eye Ear Nose Throat Month* 1964;43:45-9.
- [378] Gass D. Ischemic optic neuropathy in aphakia (and phakia). In: Welsh RC, Welsh J, editors. *The new report on cataract surgery; proceedings of the first-biennial Cataract Surgical Congress*. Miami Beach. Miami: Miami Educational Press; 1969. p. 84-6.
- [379] Hayreh SS. Anterior ischemic optic neuropathy. IV. Occurrence after cataract extraction. *Arch Ophthalmol* 1980;98:1410-6.
- [380] Spedick MJ, Tomsak RL. Ischemic optic neuropathy following secondary intraocular lens implantation. *J Clin Neuro-Ophthalmol* 1984;4:255-7.
- [381] Kalenak JW, Kosmorsky GS, Rockwood EJ. Nonarteritic anterior ischemic optic neuropathy and intraocular pressure. *Arch Ophthalmol* 1991;109:660-1.
- [382] Katz B, Weinreb RN, Wheeler DT, et al. Anterior ischaemic optic neuropathy and intraocular pressure. *Br J Ophthalmol* 1990;74:99-102.
- [383] Tomsak RL, Remler BF. Anterior ischemic optic neuropathy and increased intraocular pressure. *J Clin Neuro-Ophthalmol* 1989;9:116-8.
- [384] Giuffrè G, Brancato G. Subretinal neovascularization in anterior ischemic optic neuropathy. *Graefes Arch Clin Exp Ophthalmol* 1991;29:19-23.
- [385] Deutsch D, Eting E, Avisar R, et al. Familial anterior ischemic optic neuropathy and papillophlebitis. *Am J Ophthalmol* 1990;110:306-8.
- [386] Johnson LN, Kuo HC, Arnold AC. HLA-A29 as a potential risk factor for nonarteritic anterior ischemic optic neuropathy. *Am J Ophthalmol* 1993;115:540-2.
- [387] Quigley HA, Miller NR, Green WR. The pattern of optic nerve fiber loss in anterior ischemic optic neuropathy. *Am J Ophthalmol* 1985;100:769-76.
- [388] Hayreh SS. Amiodarone, erectile dysfunction drugs, and non-arteritic ischemic optic neuropathy. *J Neuroophthalmol* 2006;26:154-5.
- [389] Atkins EJ, Bruce BB, Newman NJ, et al. Treatment of nonarteritic anterior ischemic optic neuropathy. *Surv Ophthalmol* 2010;55:47-63.
- [390] Josef JM, Burde RM. Editorial: Ischemic optic neuropathy of the young. *J Clin Neuro-Ophthalmol* 1988;8:247-8.
- [391] Flaharty PM, Sergott RC, Lieb W, et al. Optic nerve sheath decompression may improve blood flow in anterior ischemic optic neuropathy. *Ophthalmology* 1993;100:297-305.
- [392] Sergott RC, Cohen MS, Bosley TM, et al. Optic nerve decompression may improve the progressive form of nonarteritic ischemic optic neuropathy. *Arch Ophthalmol* 1989;107:1743-54.
- [393] Spoor TC, McHenry JG, Lau-Sickon L. Progressive and static nonarteritic ischemic optic neuropathy treated by optic nerve sheath decompression. *Ophthalmology* 1993;100:306-11.
- [394] Spoor TC, Wilkinson MJ, Ramocki JM. Optic nerve sheath decompression for the treatment of progressive nonarteritic ischemic optic neuropathy. *Am J Ophthalmol* 1991;111:724-8.
- [395] Glaser JS, Teimory M, Schatz NJ. Optic nerve sheath fenestration for progressive ischemic optic neuropathy; results in second series consisting of 21 eyes. *Arch Ophthalmol* 1994;112:1047-50.
- [396] Hayreh SS. The role of optic nerve sheath fenestration in management of anterior ischemic optic neuropathy. *Arch Ophthalmol* 1990;108:1063-4.
- [397] Ischemic Optic Neuropathy Decompression Trial Research Group. Optic nerve decompression surgery for nonarteritic anterior ischemic optic neuropathy (NAION) is not effective and may be harmful. *JAMA* 1995;273:625-32.
- [398] Jablons MM, Glaser JS, Schatz NJ, et al. Optic nerve sheath fenestration for treatment of progressive ischemic optic neuropathy; results in 26 patients. *Arch Ophthalmol* 1993;111:84-7.
- [399] McHenry JG, Spoor TC. The efficacy of optic nerve sheath decompression for anterior ischemic optic neuropathy and other optic neuropathies. *Am J Ophthalmol* 1993;116:254-5.
- [400] Sadun AA. The efficacy of optic nerve sheath decompression for anterior ischemic optic neuropathy and other optic neuropathies. *Am J Ophthalmol* 1993;115:384-9.
- [401] Wolin MJ, Lavin PJM. Spontaneous visual recovery from traumatic optic neuropathy after blunt head injury. *Am J Ophthalmol* 1990;109:430-5.
- [402] Plotnik JL, Kosmorsky GS. Operative complications of optic nerve sheath decompression. *Ophthalmology* 1993;100:683-90.
- [403] Keltner JL. Giant-cell arteritis; signs and symptoms. *Ophthalmology* 1982;89:1101-10.
- [404] Albert DM, Searl SS, Craft JL. Histologic and ultrastructural

- characteristics of temporal arteritis; the value of the temporal artery biopsy. *Ophthalmology* 1982;89:1111–26.
- [405] Grunewald S, Bodendorf M, Maier M, et al. Parietal scalp necrosis: an unusual manifestation of giant cell arteritis. *Dermatology* 2009;219:282–4.
- [406] Rudd JC, Fineman MS, Sergott RC, et al. Ischemic scalp necrosis preceding loss of visual acuity in giant cell arteritis. *Arch Ophthalmol* 1998;116:1690–1.
- [407] Dudenhofer EJ, Cornblath WT, Schatz MP. Scalp necrosis with giant cell arteritis. *Ophthalmology* 1998;105:1875–8.
- [408] Dummer W, Zillikens D, Schulz A, et al. Scalp necrosis in temporal (giant cell) arteritis: implications for the dermatologic surgeon. *Clin Exp Dermatol* 1996;21:154–8.
- [409] Fleischl P, Oldham BE. Temporal (giant-cell) arteritis associated with gangrene of scalp. *Br Med J* 1960;2:439.
- [410] Mack HG, O'Day J, Currie JN. Delayed choroidal perfusion in giant cell arteritis. *J Clin Neuro-Ophthalmol* 1991;11:221–7.
- [411] Siatkowski RM, Gass JDM, Glaser JS, et al. Fluorescein angiography in the diagnosis of giant cell arteritis. *Am J Ophthalmol* 1993;115:57–63.
- [412] Brittain GPH, McIlwaine GG, Bell JA, et al. Plasma viscosity or erythrocyte sedimentation rate in the diagnosis of giant cell arteritis. *Br J Ophthalmol* 1991;75:656–9.
- [413] Eshaghian J, Goeken JA. C-reactive protein in giant cell (cranial, temporal) arteritis. *Ophthalmology* 1980;87:1160–6.
- [414] Aiello PD, Trautmann JC, McPhee TJ, et al. Visual prognosis in giant cell arteritis. *Ophthalmology* 1993;100:550–5.
- [415] Parmeley C, Schiffman JS, Maitland CG, et al. Does neuroretinitis rule out multiple sclerosis? *Arch Neurol* 1987;44:1045–8.
- [416] Optic Neuritis Study Group The clinical profile of optic neuritis; experience of the Optic Neuritis Treatment Trial. *Arch Ophthalmol* 1991;109:1673–8.
- [417] Keltner JL, Johnson CA, Spurr JO, et al. Visual field profile of optic neuritis; one-year follow-up in the Optic Neuritis Treatment Trial. *Arch Ophthalmol* 1994;112:946–53.
- [418] Beck RW, Cleary PA, Trobe JD, et al. The effect of corticosteroids for acute optic neuritis on the subsequent development of multiple sclerosis; the Optic Neuritis Study Group. *N Engl J Med* 1993;329:1764–9.
- [419] Trobe JD. High-dose corticosteroid regimen retards development of multiple sclerosis in optic neuritis treatment trial. *Arch Ophthalmol* 1994;112:35–6.
- [420] Beck RW. Optic Neuritis Study Group: Editorial: The optic neuritis treatment trial; implications for clinical practice. *Arch Ophthalmol* 1992;110:331–2.
- [421] Morales DS, Siatkowski RM, Howard CW, et al. Optic neuritis in children. *J Pediatr Ophthalmol Strabismus* 2000;37:254–9.
- [422] Alper G, Wang L. Demyelinating optic neuritis in children. *J Child Neurol* 2009;24:45–8.
- [423] Wilejto M, Shroff M, Buncic JR, et al. The clinical features, MRI findings, and outcome of optic neuritis in children. *Neurology* 2006;67:258–62.
- [424] Riikonen R, Donner M, Erkkila H. Optic neuritis in children and its relationship to multiple sclerosis: a clinical study of 21 children. *Dev Med Child Neurol* 1988;30:349–59.
- [425] Kline LB, Morawetz RB, Swaid NS. Indirect injury of the optic nerve. *Neurosurgery* 1984;14:756–64.
- [426] Lessell S. Indirect optic nerve trauma. *Arch Ophthalmol* 1989;107:382–6.
- [427] Spoor TC, Hartel WC, Lensink DB, et al. Treatment of traumatic optic neuropathy with corticosteroids. *Am J Ophthalmol* 1990;110:665–9. [correction 1991;111:526.]
- [428] Alper MG. Management of primary optic nerve meningiomas; current status – therapy in controversy. *J Clin Neuro-Ophthalmol* 1981;1:101–17.
- [429] Boschetti NV, Smith JL, Osher RH, et al. Fluorescein angiography of opticociliary shunt vessels. *J Clin Neuro-Ophthalmol* 1981;1:9–30.
- [430] Dutton JJ. Optic nerve sheath meningiomas. *Surv Ophthalmol* 1992;37:167–83.
- [431] Kennerdell JS, Maroon JC, Malton M, et al. The management of optic nerve sheath meningiomas. *Am J Ophthalmol* 1988;106:450–7.
- [432] Lindblom B, Truweit CL, Hoyt WF. Optic nerve sheath meningioma; Definition of intraorbital, intracanalicular, and intracranial components with magnetic resonance imaging. *Ophthalmology* 1992;99:560–6.
- [433] Samples JR, Robertson DM, Taylor JZ, et al. Optic nerve meningioma. *Ophthalmology* 1983;90:1591–4.
- [434] Wright JE, Call NB, Liarios S. Primary optic nerve meningioma. *Br J Ophthalmol* 1980;64:553–8.
- [435] Wright JE, McNab AA, McDonald WI. Primary optic nerve sheath meningioma. *Br J Ophthalmol* 1989;73:960–6.
- [436] Zimmerman CF, Schatz NJ, Glaser JS. Magnetic resonance imaging of optic nerve meningiomas; enhancement with gadolinium-DTPA. *Ophthalmology* 1990;97:585–91.
- [437] Frisén L, Hoyt WF, Tengroth BM. Optociliary veins, disc pallor and visual loss; a triad of signs indicating sphenoidal meningioma. *Acta Ophthalmol* 1973;51:241–9.
- [438] Hollenhorst Jr RW, Hollenhorst Sr RW, MacCarty CS. Visual prognosis of optic nerve sheath meningiomas producing shunt vessels on the optic disk; the Hoyt–Spencer syndrome. *Mayo Clin Proc, Trans Am Ophthalmol Soc* 1977;75:141–63.
- [439] Imes RK, Schatz H, Hoyt WF, et al. Evolution of opticociliary veins in optic nerve sheath meningioma; evolution. *Arch Ophthalmol* 1985;103:59–60.
- [440] Schatz H, Green WR, Talamo JH, et al. Clinicopathologic correlation of retinal to choroidal venous collaterals of the optic nerve head. *Ophthalmology* 1991;98:1287–93.
- [441] Sibony PA, Kennerdell JS, Slamovits TL, et al. Intrapapillary refractile bodies in optic nerve sheath meningioma. *Arch Ophthalmol* 1985;103:383–5.
- [442] Sibony PA, Krauss HR, Kennerdell JS, et al. Optic nerve sheath meningiomas; clinical manifestations. *Ophthalmology* 1984;91:1313–26.
- [443] Spencer WH. Primary neoplasms of the optic nerve and its sheaths: clinical features and current concepts of pathogenetic mechanisms. *Trans Am Ophthalmol Soc* 1972;70:490–528.
- [444] Cibis GW, Whittaker CK, Wood WE. Intraocular extension of optic nerve meningioma in a case of neurofibromatosis. *Arch Ophthalmol* 1985;103:404–6.
- [445] Dunn SN, Walsh FB. Meningioma (dural endothelioma) of the optic nerve; report of a case. *Arch Ophthalmol* 1956;56:702–7.
- [446] Hannesson OB. Primary meningioma of the orbit invading the choroid; report of a case. *Acta Ophthalmol* 1971;49:627–32.
- [447] Stempel I. Rare choroidal tumour simulating a malignant melanoma. *Ophthalmologica* 1991;202:110–4.
- [448] Hart Jr WM, Burde RM, Klingele TG, et al. Bilateral optic nerve sheath meningiomas. *Arch Ophthalmol* 1980;98:149–51.
- [449] Cunliffe IA, Moffat DA, Hardy DG, et al. Bilateral optic nerve sheath meningiomas in a patient with neurofibromatosis type 2. *Br J Ophthalmol* 1992;76:310–2.
- [450] McNab AA, Wright JE. Cysts of the optic nerve three cases associated with meningioma. *Eye* 1989;3:355–9.
- [451] Dowhan TP, Muci-Mendoza R, Aitken PA. Disappearing opticociliary shunt vessels and neonatal hydrocephalus. *J Clin Neuro-Ophthalmol* 1988;8:1–8.



- [452] Dutton JJ, Anderson RL. Idiopathic inflammatory peri optic neuritis simulating optic nerve sheath meningioma. *Am J Ophthalmol* 1985;100:424-30.
- [453] Mark LE, Kennerdell JS, Maroon JC, et al. Microsurgical removal of a primary intraorbital meningioma. *Am J Ophthalmol* 1978;86:704-9.
- [454] Wright JE. Primary optic nerve meningiomas: clinical presentation and management. *Trans Am Acad Ophthalmol Otolaryngol* 1977;83:OP617-OP625.
- [455] Smith JL, Vuksanovic MM, Yates BM, et al. Radiation therapy for primary optic nerve meningiomas. *J Clin Neuro-Ophthalmol* 1981;1:85-99.
- [456] Karp LA, Zimmerman LE, Borit A, et al. Primary intraorbital meningiomas. *Arch Ophthalmol* 1974;91:24-8.
- [457] Walsh FB. Meningiomas, primary within the orbit and optic canal. In: Smith JL, editor. *Neuro-ophthalmology symposium of the University of Miami and the Bascom Palmer Eye Institute*. Hallendale, FL: Huffman Publishing; 1970. p. 240-66.
- [458] Aoki S, Barkovich AJ, Nishimura K, et al. Neurofibromatosis types 1 and 2: cranial MR findings. *Radiology* 1989;172:527-34.
- [459] Bouzas EA, Parry DM, Eldridge R, et al. Visual impairment in patients with neurofibromatosis 2. *Neurology* 1993;43:622-3.
- [460] Mulvihill JJ, Parry DM, Sherman JL, et al. NIH Conference. Neurofibromatosis 1 (Recklinghausen disease) and neurofibromatosis 2 (bilateral acoustic neurofibromatosis); an update. *Ann Intern Med* 1990;113:39-52.
- [461] de Keizer RJW, de Wolff-Rouendaal D, Bots GTAM, et al. Optic glioma with intraocular tumor and seeding in a child with neurofibromatosis. *Am J Ophthalmol* 1989;108:717-25.
- [462] Wright JE, McNab AA, McDonald WI. Optic nerve glioma and the management of optic nerve tumours in the young. *Br J Ophthalmol* 1989;73:967-74.
- [463] Hoyt WF, Baghdassarian SA. Optic glioma of childhood; natural history and rationale for conservative management. *Br J Ophthalmol* 1969;53:793-8.
- [464] Corbett JJ, Savino PJ, Thompson HS, et al. Visual loss in pseudotumor cerebri; follow-up of 57 patients from five to 41 years and a profile of 14 patients with permanent severe visual loss. *Arch Neurol* 1982;39:461-74.
- [465] Gutgold-Glen H, Kattah JC, Chavis RM. Reversible visual loss in pseudotumor cerebri. *Arch Ophthalmol* 1984;102:403-6.
- [466] Hayreh SS. Optic disc edema in raised intracranial pressure. V. Pathogenesis. *Arch Ophthalmol* 1977;95:1553-65.
- [467] Coppeto JR, Monteiro MLR. Juxtapapillary subretinal hemorrhages in pseudotumor cerebri. *J Clin Neuro-Ophthalmol* 1985;5:45-53.
- [468] Orcutt JC, Page NGR, Sanders MD. Factors affecting visual loss in benign intracranial hypertension. *Ophthalmology* 1984;91:1303-12.
- [469] Rush JA. Pseudotumor cerebri; clinical profile and visual outcome of 63 patients. *Mayo Clin Proc* 1980;55:541-6.
- [470] Jamison RR. Subretinal neovascularization and papilledema associated with pseudotumor cerebri. *Am J Ophthalmol* 1978;85:78-81.
- [471] Keane JR. Papilledema with unusual ocular hemorrhages. *Arch Ophthalmol* 1981;99:262-3.
- [472] Morris AT, Sanders MD. Macular changes resulting from papilloedema. *Br J Ophthalmol* 1980;64:211-6.
- [473] Morse PH, Leveille AS, Antel JP, et al. Bilateral juxtapapillary subretinal neovascularization associated with pseudotumor cerebri. *Am J Ophthalmol* 1981;91:312-7.
- [474] Troost BT, Sufit RL, Grand MG. Sudden monocular visual loss in pseudotumor cerebri. *Arch Neurol* 1979;36:440-2.
- [475] Pollock SC. Acute papilledema and visual loss in a patient with pseudotumor cerebri. *Arch Ophthalmol* 1987;105:752-3.
- [476] Green GL, Lessell S, Loewenstein JI. Ischemic optic neuropathy in chronic papilledema. *Arch Ophthalmol* 1980;98:502-4.
- [477] Gittinger Jr JW, Asdourian GK. Macular abnormalities in papilledema from pseudotumor cerebri. *Ophthalmology* 1989;96:192-4.
- [478] Corbett JJ, Nerad JA, Tse DT, et al. Results of optic nerve sheath fenestration for pseudotumor cerebri; the lateral orbitotomy approach. *Arch Ophthalmol* 1988;106:1391-7.
- [479] Mitchell DJ, Steahly LP. Pseudotumor cerebri and macular disease. *Retina* 1989;9:115-7.
- [480] Paton L. Optic neuritis in cerebral tumours and its subsidence after operation. *Trans Ophthalmol Soc UK* 1905;25:129-62.
- [481] Rosenberg ML, O'Connor P, Carter J. Idiopathic unilateral disc edema; the big blind spot. *J Clin Neuro-Ophthalmol* 1984;4:181-4.
- [482] Liu GT, Glaser JS, Schatz NJ. High-dose methylprednisolone and acetazolamide for visual loss in pseudotumor cerebri. *Am J Ophthalmol* 1994;118:88-96.
- [483] Tomsak RL, Niffenegger AS, Remler BF. Treatment of pseudotumor cerebri with diamox (acetazolamide). *J Clin Neuro-Ophthalmol* 1988;8:93-8.
- [484] Brouman ND, Spoor TC, Ramocki JM. Optic nerve sheath decompression for pseudotumor cerebri. *Arch Ophthalmol* 1988;106:1378-83.
- [485] Keltner JL. Editorial: Optic nerve sheath decompression; how does it work? Has its time come? *Arch Ophthalmol* 1988;106:1365-9.
- [486] Mittra RA, Sergott RC, Flaharty PM, et al. Optic nerve decompression improves hemodynamic parameters in papilledema. *Ophthalmology* 1993;100:987-97.
- [487] Sergott RC, Savino PJ, Bosley TM. Modified optic nerve sheath decompression provides long-term visual improvement for pseudotumor cerebri. *Arch Ophthalmol* 1988;106:1384-90.
- [488] Spoor TC, McHenry JG. Long-term effectiveness of optic nerve sheath decompression for pseudotumor cerebri. *Arch Ophthalmol* 1993;111:632-5.
- [489] Spoor TC, Ramocki JM, Madion MP, et al. Treatment of pseudotumor cerebri by primary and secondary optic nerve sheath decompression. *Am J Ophthalmol* 1991;112:117-85.
- [490] Tse DT, Nerad JA, Anderson RL, et al. Optic nerve sheath fenestration in pseudotumor cerebri; a lateral orbitotomy approach. *Arch Ophthalmol* 1988;106:1458-62.
- [491] Carroll FD. Nutritional amblyopia. *Arch Ophthalmol* 1966;76:406-11.
- [492] Frisén L. Fundus changes in acute malnutritional optic neuropathy. *Arch Ophthalmol* 1983;101:577-9.
- [493] Lessell S. Toxic and deficiency optic neuropathies. In: Smith JL, Glaser JS, editors. *Neuro-ophthalmology symposium of the University of Miami and the Bascom Palmer Eye Institute*. St. Louis: CV Mosby; 1973. p. 21-37.
- [494] Rizzo III JF, Lessell S. Tobacco amblyopia. *Am J Ophthalmol* 1993;116:84-7.
- [495] Lessell S. Nutritional amblyopia. *J Neuroophthalmol* 1998;18:106-11.
- [496] Carroll FD. Jamaican optic neuropathy in immigrants to the United States. *Am J Ophthalmol* 1971;71:261-5.
- [497] MacKenzie AD, Phillips CI. West Indian amblyopia. *Brain* 1968;91:249-60.
- [498] Fasler JJ, Rose FC. West Indian amblyopia. *Postgrad Med J* 1980;56:494-500.
- [499] Sadun A. Acquired mitochondrial impairment as a cause of optic nerve disease. *Trans Am Ophthalmol Soc* 1998;96:881-923.
- [500] Ordunez-Garcia PO, Nieto FJ, Espinosa-Brito AD, et al. Cuban

- epidemic neuropathy, 1991 to 1994: history repeats itself a century after the "amblyopia of the blockade". *Am J Public Health* 1996;86:738-43.
- [501] Johns DR, Neufeld MJ, Hedges III TR. Mitochondrial DNA mutations in Cuban optic and peripheral neuropathy. *J Neuro-Ophthalmol* 1994;14:135-40.
- [502] Johns DR, Sadun AA. Cuban epidemic optic neuropathy; mitochondrial DNA analysis. *J Neuro-Ophthalmol* 1994;14:130-4.
- [503] Wilson J. Cyanide in human disease: a review of clinical and laboratory evidence. *Fundam Appl Toxicol* 1983;3:397-9.
- [504] Cullom ME, Heher KL, Miller NR, et al. Leber's hereditary optic neuropathy masquerading as tobacco-alcohol amblyopia. *Arch Ophthalmol* 1993;111:1482-5.
- [505] Mackey D, Howell N. Tobacco amblyopia. *Am J Ophthalmol* 1994;117:817-8.