

CURRICULUM VITAE

HARRY ALAN QUIGLEY, M.D.

CURRENT ADDRESS:

Director, Glaucoma Service
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BORN: St. Louis, Missouri: September 17, 1945

MARRIED: Cristina Wohl Quigley
Children: David Alan and Erica Nicole

EDUCATION:

St. Louis Country Day School, 1955-1963
Harvard College, A.B., 1967
Johns Hopkins University School of Medicine, M.D., 1971
Medical Intern, Mt. Zion Hospital, San Francisco, 1972
Ophthalmology Resident, Wilmer Institute, Johns Hopkins Hospital, 1972-1975
Fellow, Department of Ophthalmology, Bascom Palmer Eye Institute,
University of Miami, 1975-1977

APPOINTMENTS:

Johns Hopkins University School of Medicine
Assistant Professor, 1977--1980
Associate Professor, 1980--1985
Professor, 1985--1994
A. Edward Maumenee Professor of Ophthalmology, 1994--present

SOCIETIES:

Alpha Omega Alpha, 1971
U.S. Army Reserve, Captain, Medical Corps, 1972--1978
Association for Research in Vision and Ophthalmology, 1971
Wilmer Residents Association, 1975
American Academy of Ophthalmology, 1977
International Glaucoma Committee, 1981
International Perimetric Society, 1981
American Association for the Advancement of Science, 1982
American Glaucoma Society, 1985
International Society for Geographic and Epidemiologic Ophthalmology, 1996
Glaucoma Research Society, 1984

HONORS:

National Merit Scholar, 1963

National Science Foundation Fellow, 1966
 Cum Laude A.B., Harvard College
 Seeing Eye Foundation Grant, 1968-1971
 Fight for Sight Fellow, 1969
 Medical Intern of the Year, Mt. Zion Hospital, 1972
 Research to Prevent Blindness, William & Mary Greve Research Scholar, 1980
 Jonathan and Israel Myers Honor Research Award, 1981
 Prix Jules Francois, Research Award, European Society of Ophthalmology, 1984
 L. Harrell Pierce Teaching Award, given by residents of Wilmer Institute, 1984
 Senior Investigator Award, Research to Prevent Blindness, 1988
 Alcon Research Institute Award, 1988
 Beem--Fisher Award, Chicago Ophthalmological Society, 1990
 Mackenzie Memorial Medal, Scotland, 1990
 Gregg Memorial Medal, Australia 1994
 Lewis Rudin Glaucoma Prize, New York Academy of Sciences, 1996
 Senior Honor Award, American Academy of Ophthalmology, 1997
 International Glaucoma Review Award, Best Paper of the Year, 2000
 L. Harrell Pierce Teaching Award, Wilmer Residents, 2003 (2nd time)
 Friedenwald Award, Association for Research in Vision and Ophthalmology, 2004
 Doyne Medal, Oxford Ophthalmological Congress, 2004
 Most cited ophthalmic publications in 20th century, Arch Ophthalmol, April 2007.
 Elected President, Glaucoma Research Society, 2008
 Secretariat Award for Distinguished Service, American Academy of Ophthalmology, 2009
 Gold Fellow Award, Association for Research in Vision and Ophthalmology, 2009
 Leslie Dana Medal, St. Louis Society for the Blind and Visually Impaired, 2011

SPECIALTY BOARD:

Diplomate, American Board of Ophthalmology, 1976
 Associate Examiner, American Board of Ophthalmology

EDITORIAL BOARDS:

Investigative Ophthalmology and Visual Science, 1983-1988

Editor-in-Chief, 1993-1997

Focal Points: Clinical Modules for Ophthalmologists, American Academy of Ophthalmology, 1984-1988

AMA Drug Evaluations

Ophthalmology Times

SCIENTIFIC JOURNAL REVIEWER:

Archives of Ophthalmology

American Journal of Ophthalmology

American Journal of Epidemiology

British Journal of Ophthalmology

Current Eye Research

Experimental Eye Research

Investigative Ophthalmology and Visual Science

Journal of Neuroscience

Ophthalmology

Scanning Electron Microscopy

Survey of Ophthalmology

The New England Journal of Medicine

Cell

Neuron

GRANT REVIEW CONSULTANT:

National Institutes of Health, National Eye Institute,
 Vision Research Review Committee Study Section, 1986-1991
 AED Visual Sciences Study Section, 2004-2008
 Veterans Administration, Research Grant Reviewer
 Fight For Sight, Inc., Review Committee, Grant Projects
 National Society to Prevent Blindness
 National Research Council, Canada
 Wellcome Trust, United Kingdom
 Glaucoma Research Foundation
 National Glaucoma Research

AMERICAN ACADEMY OF OPHTHALMOLOGY:

Regional Update Course Program, Faculty
 Committee on Ophthalmic Procedures Assessment, Monograph Editor
 Academy Honor Award for Teaching, 1986
 Academy Senior Honor Award, 1997
 Eyecare Glaucoma Project Committee, 2000

ASSOCIATION FOR RESEARCH IN VISION AND OPHTHALMOLOGY

Glaucoma Section Chairperson, 1984-1985
 Editorial Board, Investigative Ophthalmology and Visual Science, 1983-1988
 Elected Secretary -Treasurer, 1987-1992
 Elected Editor-in-Chief, Investigative Ophthalmology and Visual Science, 1993-1997
 Trustee, 1987-97
 Special Recognition Award, 1998
 Friedenwald Award, 2004

AMERICAN GLAUCOMA SOCIETY:

Founding Member
 Secretary, 1985-1991

DEPARTMENTAL and UNIVERSITY CONTRIBUTIONS:*Past Service:*

Director, Fellowship Training Grant Committee
 Resident Selection Committee
 Quality Assurance Committee Chairperson
 Medical Care Evaluation Committee (Hospital)
 Institutional Research Projects Grant Committee (University)
 Supervisor, Core Electron Microscope Facility
 Medical School Clinician - Scientist Grant Selection Committee

Present Service:

Supervisor, Core Electron Microscope Facility
 Chairman, Wilmer Institute Research Committee
 Johns Hopkins Medical School Scientific Advisory Council
 Committee on Education Imaging

NAMED LECTURES GIVEN:

Jules Francois Lecture, European Congress of Ophthalmology, Helsinki, 1984
 3rd Eye Research Institute, Retina Foundation Charles Schepens Lecture, Boston, 1985
 Jack Guyton Lecture, Henry Ford Hospital, Detroit, 1985
 Robert N. Shaffer Lecture, National Society to Prevent Blindness Symposium,
 American Academy of Ophthalmology, 1991

John Harry King Memorial Lecture, International Eye Foundation, Jamaica, 1993
 Gregg Lecture, Royal Australian Society of Ophthalmology, 1994
 First Frederick Theodore Memorial Lecture, New York 1996
 Havener Lecture, Columbus, 1996
 Edward D.W. Norton Lecture, Bascom Palmer Eye Institute, Miami, 1997
 John Cohen Lecture, Midwest Glaucoma Society, Minneapolis, 1997
 Goodwin M. Breinin Lecture, New York University Medical Center, 1998
 Commissioned Trainer in Ophthalmology, Hong Kong Hospital Authority, 1997-98
 HMDP Expert Consultancy in Ophthalmology, Singapore, 1998
 Mark J. Schoenberg Lecture of the New York Society for Clinical Ophthalmology, 1999
 Sanford Feldman Lecture, Sinai Hospital of Baltimore, 2000
 Marvin Sears Lecture, Yale University, 2001
 Clinician—Scientist Lecture, American Glaucoma Society, 2002
 Roscoe J. Kennedy Lecture, Cleveland Clinic, 2003
 Rich Lecture, University of Alabama, Birmingham, 2003
 Louis and Rachel Rudin Lecture, Manhattan Eye and Ear Hospital, NY, 2003
 Clinician—Scientist Lecture, American Academy of Ophthalmology Subspecialty Day, 2003
 Shaffer-Hetherington-Hoskins Lecture, San Francisco, 2004
 Friedenwald Lecture, ARVO, 2004
 Doyne Lecture, Oxford Ophthalmological Congress, 2004
 DeSchweinitz Lecture, Philadelphia, 2005
 Chandler Lecture, Boston, 2005
 Ida Mann Lecture, Royal Australian/New Zealand College Ophthalmology, Sydney, 2006
 Michael Van Buskirk Lecture, Portland, 2006
 DeVoe Lecture, Harkness Eye Institute, Columbia University, 2007
 Arthur J. Bedell Lecture, Wills Eye Hospital, 2008
 H. Saul Sugar Lecture, Henry Ford Hospital, Detroit, 2009
 Leydecker—Harms Honorary Lecture, University of Wurzburg, Germany, 2009
 Edward Jackson Lecture, American Academy of Ophthalmology, 2009
 Michael Kass Lecture, Washington University, St. Louis, 2010
 American Glaucoma Society Lecture, Dana Point, California 2011

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PUBLICATIONS

MONOGRAPHS:

Quigley, HA. Diagnosing Early Glaucoma with Nerve Fiber Layer Examination. Williams & Wilkins, Baltimore, 1995.

Quigley, HA. Glaucoma: What every patient should know. 2011

PEER REVIEWED PUBLICATIONS:

1. **Quigley HA,** Goldberg MF. Scheie syndrome and macular corneal dystrophy. Arch Ophthalmol. 1971;85:553-64.
2. **Quigley HA,** Goldberg MF. Conjunctival ultrastructure in mucopolipidosis III (pseudo-Hurler polydystrophy). Invest Ophthalmol. 1971;10:568-80.

3. Kenyon KR, **Quigley HA**, et al. The systemic mucopolysaccharidoses: ultrastructural and histochemical studies of conjunctiva and skin. *Am J Ophthalmol.* 1972;73:811-33.
4. **Quigley HA**, Kenyon KR. Russell bodies and plasma cells in human conjunctiva. *Am J Ophthalmol.* 1973;76:957-66.
5. **Quigley HA**. Mortality associated with ophthalmic surgery: a twenty-year experience at the Wilmer Institute. *Am J Ophthalmol.* 1974;77:517-24.
6. **Quigley HA**, Kenyon KR. Ultrastructural and histochemical studies of a newly recognized form of systemic mucopolysaccharidosis (Maroteaux-Lamy syndrome, mild phenotype). *Am J Ophthalmol.* 1974;77:809-18.
7. **Quigley HA**, Pollack IP, Harbin TS. Pilocarpine Ocuserts: long-term clinical trials and selected pharmacodynamics. *Arch Ophthalmol.* 1975;93:771-5.
8. **Quigley HA**, Maumenee AE, Stark WJ. Acute glaucoma in systemic mucopolysaccharidosis I-S. *Am J Ophthalmol.* 1975;80:70-2.
9. **Quigley HA**, Langham M. Comparative intraocular pressure measurements with the pneumatonograph and Goldmann tonometer. *Am J Ophthalmol.* 1975;80:266-73.
10. **Quigley HA**, Green WR. Clinical and ultrastructural ocular histopathologic studies of adult-onset metachromatic leukodystrophy. *Am J Ophthalmol.* 1976;82:472-9.
11. Pollack IP, **Quigley HA**, Harbin TS. The Ocusert pilocarpine system: advantages and disadvantages. *South Med J.* 1978;69:1296-8.
12. **Quigley HA**. Histological and physiological studies of cyclocryotherapy in primate and human eyes. *Am J Ophthalmol.* 1976;82:722-32.
13. **Quigley HA**, Anderson DR. The dynamics and location of axonal transport blockade by acute intraocular pressure elevation in primate optic nerve. *Invest Ophthalmol.* 1976;15:606-16.
14. **Quigley HA**, Anderson DR. Cupping of the optic disc in ischemic optic neuropathy. *Trans Am Acad Ophthalmol Otolaryngol.* 1977;83:755-62.
15. **Quigley HA**, Pollack IP. Intraocular pressure control with twice-daily pilocarpine in two vehicle solutions. *Ann Ophthalmol.* 1977;9:427-30.
16. **Quigley HA**. The pathogenesis of reversible cupping in congenital glaucoma. *Am J Ophthalmol.* 1977;84:358-70.
17. **Quigley HA**, Anderson DR. The histologic basis of optic disk pallor in experimental optic atrophy. *Am J Ophthalmol.* 1977;83:709-17.
18. **Quigley HA**. Gap junctions between optic nerve head astrocytes. *Invest Ophthalmol.* 1977;16:582-5.

19. **Quigley HA**, Davis EB, Anderson DR. Descending optic nerve degeneration in primates. *Invest Ophthalmol.* 1977;16:841-9.
20. **Quigley HA**, Anderson DR. The distribution of axonal transport blockade by acute intraocular pressure elevation in the primate optic nerve head. *Invest Ophthalmol.* 1977;16:640-4.
21. Sipperley J, **Quigley HA**, Gass JDM. Traumatic retinopathy in primates: the explanation of commotio retinae. *Arch Ophthalmol.* 1978;96:2267-73.
22. Guy J, **Quigley HA**, Anderson DR. The effect of biogenic amines on the rate of axonal transport in rabbit optic nerve. *Invest Ophthalmol Vis Sci.* 1978;17: 296-300.
23. **Quigley HA**. Clinical application of cyclocryotherapy. *Arch Ophthalmol.* 1977;95:714.
24. **Quigley HA**, Forster R. Histopathology of cornea and iris in Chandler's syndrome. *Arch Ophthalmol.* 1978;96:1878-82.
25. **Quigley HA**, Stanish FS. Unilateral congenital iris pigment epithelial hyperplasia associated with late-onset glaucoma. *Am J Ophthalmol.* 1978;86:182-4.
26. **Quigley HA**, Guy J, Anderson DR. Blockade of rapid axonal transport. Effect of intraocular pressure elevation in primate optic nerve. *Arch Ophthalmol.* 1979;97:525-31.
27. **Quigley HA**, Maumenee AE. Long-term follow-up of treated open-angle glaucoma. *Am J Ophthalmol.* 1979;87:519-27.
28. **Quigley HA**, Green WR. The histology of human glaucoma cupping and optic nerve damage: clinicopathologic correlation in 21 eyes. *Ophthalmology* 1979;10:1803-27.
29. Robin AL, **Quigley HA**. Transient reversible cupping in juvenile glaucoma. *Am J Ophthalmol.* 1979;88:580-4.
30. Robin AL, **Quigley HA**, Pollack IP, et al. An analysis of visual acuity, visual fields, and disk cupping in childhood glaucoma. *Am J Ophthalmol.* 1979;88:847-58.
31. Hirst LW, **Quigley HA**, Stark WJ, Shields MB. Specular microscopy of irido corneal endothelial syndrome. *Am J Ophthalmol.* 1980;89:11-21.
32. **Quigley HA**, Addicks EM. Chronic experimental glaucoma in primates. I. Production of elevated intraocular pressure by injection of autologous red blood cells. *Invest Ophthalmol Vis Sci.* 1980;19:126-36.
33. **Quigley HA**, Addicks EM. Chronic experimental glaucoma in primates. II. Effect of extended intraocular pressure on optic nerve head and axonal transport. *Invest Ophthalmol Vis Sci.* 1980;19:137-52.
34. **Quigley HA**, Flower RW, Addicks EM, McLeod DS. The mechanism of optic nerve damage in experimental acute intraocular pressure elevation. *Invest Ophthalmol Vis Sci.* 1980;19:505-17.

35. **Quigley HA**, Miller NR, George T. Clinical evaluation of nerve fiber layer atrophy as an indicator of glaucomatous optic nerve damage. *Arch Ophthalmol.* 1980;98:1564-71.
36. Green WR, **Quigley HA**. Parafoveal telangiectasia: clinicopathologic correlation. *Trans Ophthalmol Soc U K.* 1980;100:162-70.
37. **Quigley HA**. Malignant glaucoma and fluid flow. *Am J Ophthalmol.* 1980;89:879-80.
38. **Quigley HA**, Addicks EM. Scanning electron microscopy of trabeculectomy specimens from eyes with open-angle glaucoma. *Am J Ophthalmol.* 1980;90:854-7.
39. Hirst LW, **Quigley HA**, Stark WJ. Specular microscopy of iridocorneal endothelial syndrome. *Aust J Ophthalmol.* 1980;8:139-46.
40. **Quigley HA**, Addicks EM. Regional differences in the structure of the lamina cribrosa and their relation to glaucomatous optic nerve damage. *Arch Ophthalmol.* 1981;99:137-43.
41. **Quigley HA**, Addicks EM, Green WR, Maumenee AE. Optic nerve damage in human glaucoma. II. The site of injury and susceptibility to damage. *Arch Ophthalmol.* 1981;99:635-49.
42. **Quigley HA**. Long term follow-up of laser iridotomy. *Ophthalmology* 1981;88:218-24.
43. Kampik A, Green WR, **Quigley HA**, Pierce LH. Scanning and transmission electron microscopic studies of two cases of pigment dispersion syndrome. *Am J Ophthalmol.* 1981;91:573-87.
44. **Quigley HA**, Addicks EM, Green WR. Optic nerve damage in human glaucoma. III. Quantitative correlation of nerve fiber loss and visual field defect in glaucoma, ischemic neuropathy, disc edema, and toxic neuropathy. *Arch Ophthalmol.* 1982;100:135-46.
45. **Quigley HA**, Addicks EM. Quantitative studies of retinal nerve fiber layer defects. *Arch Ophthalmol.* 1982;100:807-14.
46. Robin AL, Pollack IP, **Quigley HA**, D'Anna S, Addicks EM. Histologic studies of angle structures after laser iridotomy in primates. *Arch Ophthalmol.* 1982;100:1665-70.
47. **Quigley HA**. Childhood glaucoma. Results with trabeculotomy and study of reversible cupping. *Ophthalmology* 1982;89:219-26.
48. Addicks EM, **Quigley HA**, Green WR, Robin AL. Histologic characteristics of filtering blebs in glaucomatous eyes. *Arch Ophthalmol.* 1983;101:795-8.
49. **Quigley HA**, Hohman RM, Addicks EM. Quantitative study of optic nerve head capillaries in experimental optic disk pallor. *Am J Ophthalmol.* 1982;93:689-99.
50. Soong HK, **Quigley HA**. Dellen associated with filtering blebs. *Arch Ophthalmol.* 1983;101:385-7.
51. **Quigley HA**. Glaucoma's optic nerve damage: changing clinical perspectives. *Ann Ophthalmol.* 1982;14:611-2.

52. Levin PS, Newman SA, **Quigley HA**, Miller NR. A clinico-pathologic study of cranial mass lesions with quantification of remaining axons. *Am J Ophthalmol.* 1983;95:295-306.
53. **Quigley HA**, Hohman RM. Laser energy levels for trabecular meshwork damage in the primate eye. *Invest Ophthalmol Vis Sci.* 1983;24:1305-6.
54. **Quigley HA**, Hohman RM, Addicks EM, Massof RS, Green WR. Morphologic changes in the lamina cribrosa correlated with neural loss in open-angle glaucoma. *Am J Ophthalmol.* 1983;95:673-91.
55. Patel A, Kenyon KR, Hirst LW, **Quigley HA**, Stark WJ, Meyer R, Green WR. Clinicopathologic features of Chandler's syndrome. *Surv Ophthalmol.* 1983;27:327-44.
56. Frisen L, **Quigley HA**. Visual acuity in optic atrophy. A quantitative clinicopathologic study. *Graefe's Arch Clin Exp Ophthalmol.* 1984;222:71-4.
57. **Quigley HA**, Hohman RM, Addicks EM, Green WR. Blood vessels of the optic disk in chronic glaucoma. *Invest Ophthalmol Vis Sci.* 1984;25:918-31.
58. Smiddy WE, Fine S, **Quigley HA**, Hohman RM, Addicks EM. Comparison of krypton and argon laser photocoagulation. Results of simulated clinical treatment of primate retina. *Arch Ophthalmol.* 1984;102:1086-92.
59. Sommer A, Kues HA, D'Anna SA, Arkell S, Robin AL, **Quigley HA**. Cross-polarization photography of the nerve fiber layer. *Arch Ophthalmol.* 1984;102:864-9.
60. Sommer A, **Quigley HA**, Robin AL, et al. Evaluation of nerve fiber layer assessment. *Arch Ophthalmol.* 1984;102:1766-71.
61. Hotchkiss ML, Robin AL, Pollack IP, **Quigley HA**. Nonsteroidal anti-inflammatory agents after argon laser trabeculoplasty. A trial with flurbiprofen and indomethacin. *Ophthalmology* 1984;91:969-76.
62. Pollack IP, Robin AL, Dragon DM, Green WR, **Quigley HA**, et al. Use of the neodymium:YAG laser to create iridotomies in monkeys and humans. *Trans Am Ophthalmol Soc.* 1984;82:307-23.
63. **Quigley HA**. Slipknots for trabeculectomy flap closure. *Ophthalmic Surg.* 1985;16:56-8.
64. **Quigley HA**. Better methods in glaucoma diagnosis. *Arch Ophthalmol.* 1985;103:186-8.
65. **Quigley HA**, Hohman RM, Sanchez RM, Addicks EM. Optic nerve head blood flow in chronic experimental glaucoma. *Arch Ophthalmol.* 1985;103:956-62.
66. Hotchkiss ML, Robin AL, **Quigley HA**, Pollack IP. A comparison of Peritest automated perimetry and Goldmann perimetry. *Arch Ophthalmol.* 1985;103:397-403.
67. **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.

68. Smiddy WE, Fine SL, **Quigley HA**, Hohman RM, Dunkelberger G. Comparative histopathology of simulated treatment of recurrent choroidal neovascularization in primate retina. *Arch Ophthalmol*. 1985;103:428-33.
69. Dragon DM, Robin AL, Pollack IP, **Quigley HA**, et al. Neodymium:YAG laser iridotomy in the cynomolgus monkey. *Invest Ophthalmol Vis Sci*. 1985;26:789-796.
70. **Quigley HA**. Early detection of glaucomatous damage. II. Changes in the appearance of the optic disk. *Surv Ophthalmol*. 1985;30:111-26.
71. McDonnell PJ, **Quigley HA**, Maumenee AE, Stark WJ, Hutchins GM. The Honan intraocular pressure reducer. An experimental study. *Arch Ophthalmol*. 1985;103:422-5.
72. Smiddy WE, Fine SL, **Quigley HA**, Dunkelberger G, Hohman RM, Addicks EM. Cell proliferation after laser photocoagulation in primate retina. *Arch Ophthalmol*. 1986;104:1065-9.
73. McGuigan LJB, Gottsch J, Stark WJ, Maumenee AE, **Quigley HA**. Extracapsular cataract extraction and posterior chamber lens implantation in eyes with pre-existent glaucoma. *Arch Ophthalmol*. 1986;104:1301-8.

74. Sanchez RM, Dunkelberger G, **Quigley HA**. The number and diameter distribution of axons in the monkey optic nerve. *Invest Ophthalmol Vis Sci*. 1986;27:1342-50.
75. Presberg SE, **Quigley HA**, Forster R, Green WR. Posterior polymorphous corneal dystrophy. *Cornea* 1986;4:239-48.
76. Lynch MG, **Quigley HA**, Green WR, Pollack IP, Robin AL. The effect of neodymium:YAG laser capsulotomy on aqueous humor dynamics in the monkey eye. *Ophthalmology* 1986;93:1270-5.
77. McDonnell PJ, **Quigley HA**. Ultrasound effect on intraocular lenses. *Ophthalmic Surg*. 1986;17:655-7.
78. **Quigley HA**. Examination of the retinal nerve fiber layer in the recognition of early glaucoma damage. *Trans Am Ophthalmol Soc*. 1986;84:920-66.
79. Patel A, Thompson JT, Michels RG, **Quigley HA**. Endolaser treatment of the ciliary body for uncontrolled glaucoma. *Ophthalmology* 1986;93:825-9.
80. Brown RH, Denham DB, Bruner WE, Lynch MG, **Quigley HA**, Parel JM. Internal sclerectomy for glaucoma filtering surgery with an automated trephine. *Arch Ophthalmol*. 1986;105:133-6.
81. **Quigley HA**, Sanchez RM, Dunkelberger GR, L'Hernault NL, Baginski TA. Chronic glaucoma selectively damages large optic nerve fibers. *Invest Ophthalmol Vis Sci*. 1987;28:913-20.
82. Burney E, **Quigley HA**, Robin AL. Hypotony and choroidal detachment as late sequelae of trabeculectomy. *Am J Ophthalmol*. 1987;103:685-8.
83. McGuigan LJB, Mason RP, **Quigley HA**, Sanchez RM. D-penicillamine and beta-aminopropionitrile effects on experimental filtering surgery. *Invest Ophthalmol Vis Sci*. 1987;28:1625-9.
84. **Quigley HA**, Sommer A: How to use nerve fiber layer examination in the management of glaucoma. *Trans Am Ophthalmol Soc*. 1987;85:254-68.
85. Drum B, Breton M, Massof R, **Quigley HA**, Krupin T, Leight J, Mangat-Rai J, O'Leary D: Pattern discrimination perimetry: a new concept in visual field testing. *Proc International Perimetric Society*, 1987.
86. Miller KM, **Quigley HA**. The clinical appearance of the lamina cribrosa as a function of the extent of glaucomatous optic nerve damage. *Ophthalmology* 1987;95:135-8.
87. Jampel HD, McGuigan LJB, Dunkelberger GR, L'Hernault NL, **Quigley HA**. Cellular proliferation after experimental glaucoma filtration surgery. *Arch Ophthalmol*. 1987;106:89-94.
88. **Quigley HA**. Reappraisal of the mechanisms of glaucomatous optic nerve damage. *Eye* 1987;1:318-22.
89. Dellon AL, Klatsky SA, **Quigley HA**. Lower eyelid examination following blepharoplasty in the monkey. *Ann Plast Surg*. 1987;19:424-9.
90. Miller KM, **Quigley HA**. Comparison of optic disc features in low tension and typical open angle glaucoma. *Ophthalmic Surg*. 1987;18:882-9.

91. McGuigan LJB, **Quigley HA**, Luty G, Enger C, Young E. The effects of d-penicillamine and daunorubicin on conjunctival fibroblast proliferation and collagen synthesis. *Invest Ophthalmol Vis Sci.* 1988;29:112-8.
92. **Quigley HA**, Dunkelberger GR, Baginski TA, Green WR. Chronic human glaucoma causes selectively greater loss of large optic nerve fibers. *Ophthalmology* 1988;95:357-63.
93. Tielsch JM, Katz J, **Quigley HA**, Miller NR, Sommer A. Intraobserver and interobserver agreement in measurement of optic disc characteristics. *Ophthalmology* 1988;95:350-6.
94. Wilson D, Finkelstein D, Green WR, **Quigley HA**. Macular grid laser photocoagulation effect on retinal capillaries. *Arch Ophthalmol.* 1988;106:100-5.
95. Johnson MA, Drum B, **Quigley HA**, Sanchez RM, Dunkelberger GR. Pattern-evoked potentials and optic nerve fiber loss in monocular laser-induced glaucoma. *Invest Ophthalmol Vis Sci.* 1989;30:897-907.
96. Smiddy WE, Patz A, **Quigley HA**, Dunkelberger GR. Histopathology of the effects of tuneable dye laser on monkey retina. *Ophthalmology* 1988;95:956-63.
97. Smiddy WE, Fine SL, **Quigley HA**. Retinal laser photocoagulation. Effect of rate of energy delivery. *Retina* 1989;9:193-8.
98. Morrison JC, L'Hernault NL, Jerdan JA, **Quigley HA**. Extracellular matrix composition of the monkey optic nerve head. *Invest Ophthalmol Vis Sci.* 1988;29:1141-50.
99. Morrison JC, L'Hernault NL, Jerdan JA, **Quigley HA**. Ultrastructural location of extracellular matrix components of the optic nerve head. *Arch Ophthalmol.* 1989;107:123-9.
100. Del Priore LV, Glaser BM, **Quigley HA**, Dorman ME, Green WR. Morphology of pig retinal pigment epithelium maintained in organ culture. *Arch Ophthalmol.* 1988;106:1286-90.
101. Del Priore LV, Glaser BM, **Quigley HA**, Green WR. Response of pig retinal pigment epithelium to laser photocoagulation in organ culture. *Arch Ophthalmol.* 1989;107:119-22.
102. Repka MX, **Quigley HA**. The effect of age on normal human optic nerve fiber number and diameter. *Ophthalmology* 1989;96:26-31.
103. Jampel HD, Morrison JC, Vocci M, **Quigley HA**. Identification of fibrin/fibrinogen in glaucoma filtration surgery wounds. *Ophthalmic Surg.* 1988;19:576-9.
104. Scott DR, **Quigley HA**. Medical management of the high bleb phase after trabeculectomies. *Ophthalmology* 1988;95:1169-73.
105. Jampel HD, Robin AL, **Quigley HA**. Apraclonidine: a one week dose response study. *Arch Ophthalmol.* 1988;106:1069-73.
106. McCartney DL, Memmen JE, Stark WJ, **Quigley HA**, Maumenee AE, Gottsch JD, Bernitsky DA, Wong SK: The efficacy and safety of combined trabeculectomy, cataract extraction and intraocular lens implantation. *Ophthalmology* 1988;95:754-62.
107. Zarbin MA, Michels RG, DeBustros S, **Quigley HA**, Patel A. Endolaser treatment of the ciliary body for severe glaucoma. *Ophthalmology* 1988;95:1639-48.

108. **Quigley HA**, Dunkelberger GR, Green WR. Retinal ganglion cell atrophy correlated with automated perimetry in human eyes with glaucoma. *Am J Ophthalmol.* 1989;107:453-64.
109. Drum B, Severns M, O'Leary D, Massof R, **Quigley HA**, Breton M, Krupin T. Selective loss of pattern discrimination in early glaucoma. *Appl Opt.* 1989;28:1135-44.
110. Morrison JC, Dorman-Pease ME, **Quigley HA**. Extracellular matrix changes in glaucomatous optic atrophy. *Invest Ophthalmol Vis Sci.* 1989;30(suppl):201.
111. McLeod SM, West SK, **Quigley HA**. A longitudinal study of the relationship between intraocular and blood pressure. *Invest Ophthalmol Vis Sci.* 1990;31:2361-6.
112. Morrison JC, Jerdan JA, Dorman-Pease ME, **Quigley HA**. Structural proteins of the neonatal and adult lamina cribrosa. *Arch Ophthalmol.* 1989;107:1220-4.
113. **Quigley HA**, Brown AE, Morrison JC, Drance SM. The size and shape of the optic disc in normal human eyes. *Arch Ophthalmol.* 1990;108:51-7.
114. Dandona L, **Quigley HA**, Jampel HD. Reliability of optic nerve head topographic measurements with computerized image analysis. *Am J Ophthalmol.* 1989;108:414-21.
115. Dandona L, **Quigley HA**, Jampel HD. Variability of depth measurements of the optic nerve head and peripapillary retina with the Humphrey Retinal Analyzer. *Arch Ophthalmol.* 1989;107:1777-9.
116. Dandona L, Morrison JC, Robin AL, **Quigley HA**. Outlier intraocular pressure readings: valid or invalid for statistical analysis? *Ophthalmic Surg.* 1989;20:737-43.
117. Morrison JC, Brown AE, **Quigley HA**. Aging changes in the rhesus monkey optic nerve. *Invest Ophthalmol Vis Sci.* 1990;31:1623-7.
118. Tielsch JM, Sommer A, Witt K, Katz J, Royall RM, the Baltimore Eye Survey Research Group (includes **Quigley HA**). Blindness and Visual Impairment in an American Urban Population: The Baltimore Eye Survey. *Arch Ophthalmol.* 1990;108:286-90.
119. Jampel HD, Leong KW, Dunkelberger GR, **Quigley HA**. Glaucoma filtration surgery in monkeys using 5-fluorouridine in polyanhydride disks. *Arch Ophthalmol.* 1990;108:430-5.
120. Dandona L, **Quigley HA**, Brown AE, Enger C. Quantitative regional structure of the normal human lamina cribrosa. *Arch Ophthalmol.* 1990;108:393-8.
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