

CURRICULUM VITAE

David Lee Guyton, M.D.

Zanvyl Krieger Professor of Pediatric Ophthalmology
The Wilmer Ophthalmological Institute
The Johns Hopkins University School of Medicine
The Johns Hopkins Hospital
Baltimore, Maryland 21287-9028

Education: 1965 - B.S. (summa cum laude) - University of Mississippi
1969 - M.D. (magna cum laude) - Harvard Medical School
1969 - Postgraduate course - Basic Sciences in Ophthalmology –
Harvard Medical School

Professional History:

1970 – 1971 Intern in Medicine, Shands Teaching Hospital and Clinics,
University of Florida, Gainesville, Florida.
1971-1973 Research Associate, Laboratory of Neural Control, NINDS,
National Institutes of Health, Bethesda, Maryland.
1973 – 1976 Resident in Ophthalmology, The Wilmer Ophthalmological
Institute, Johns Hopkins Hospital, Baltimore, Maryland.
1976 - 1977 Postdoctoral fellow in Pediatric Ophthalmology,
Baylor College of Medicine, Houston, Texas.
1977 Assistant Chief of Service (Chief Resident) in Ophthalmology,
The Wilmer Ophthalmological Institute, Johns Hopkins Hospital.
1977 Instructor in Ophthalmology, The Johns Hopkins University
School of Medicine.
1978 – 1982 Assistant Professor of Ophthalmology, The Johns Hopkins University
School of Medicine.
1978-present Director, Strabismus Service, The Wilmer Ophthalmological Institute.
1982-1989 Associate Professor of Ophthalmology, The Johns Hopkins University

School of Medicine.

1989-present Professor of Ophthalmology, The Johns Hopkins University School of Medicine.

1991-present The Zanvyl Krieger Professor of Pediatric Ophthalmology, and Director of the Zanvyl Krieger Children's Eye Center at the Wilmer Institute

Subspecialty Board Certification

American Board of Ophthalmology - 1977

Societies

Phi Kappa Phi

Omicron Delta Kappa

Alpha Omega Alpha

Optical Society of America

Wilmer Residents Association

International Strabismological Association

The Society of Heed Fellows

American Academy of Ophthalmology

American Association for Pediatric Ophthalmology and Strabismus

Association for Research in Vision and Ophthalmology (ARVO)

Association for Research in Strabismus (Squint Club)

American Ophthalmological Society

SPIE - The International Society for Optical Engineering

Honors and Other Special Scientific Recognition

Taylor Medal in Physics 1964 - University of Mississippi

Student Hall of Fame – University of Mississippi – 1965

Maimonides Award for outstanding achievement, 1969 - Harvard Medical School

Honor Award - American Academy of Ophthalmology - 1981

Heed Ophthalmic Foundation Award - 1983

First Place Gold Award for Medical Imaging at the John Muir Medical Film Festival - 1988, for the videotape "Retinoscopy: Plus Cylinder Technique."

Senior Honor Award - American Academy of Ophthalmology, 1991

Alcon Research Institute Award - 1991

Research to Prevent Blindness, Senior Scientific Investigator Award – 1995

Senior Honor Award – American Association for Pediatric Ophthalmology and Strabismus - 2001

Alumni Hall of Fame – University of Mississippi – 2002

Research to Prevent Blindness Walt and Lilly Disney Award for Amblyopia Research –

2005 and 2006
Mildred Weisenfeld Award – Association for Research in Vision and Ophthalmology
(ARVO) - 2007

Industry Research and Development Awards

IR-100 Award for SR III Subjective Refraction System - 1979
IR-100 Award for Guyton/Minkowski Potential Acuity Meter – 1983

Editorial Boards

Ophthalmology (1979-92)
Contemporary Ophthalmology (1980)
Binocular Vision: Eye Movements, Strabismus and Amblyopia (1984 - present)
Ophthalmic Surgery (1989-95)

Research Grants (as Principal Investigator)

NIH Grant R03-EY05013. Experimentally-Induced Hyperopia in the Rhesus Monkey.
1983-84.

NIH Grant U01-EY05334. The Efficacy of Prism Adaptation in Acquired Esotropia.
1985-89.

NIH Grant R03-RR08058. Remote Sensing of Eye Fixation. 1993-95.

Other Professional and Administrative Activities

American Academy of Ophthalmology

Editorial Board: Ophthalmology (1979-92)
Program Advisory Committee (1978-85)
Ophthalmic Instruments and Devices Committee (1979-84)
Chairman, Subcommittee on Ophthalmic Equipment and Devices (1980-82)
Representative to American Committee on Optics and Visual Physiology (1980-82)
Faculty, Ophthalmology Basic and Clinical Science Course, Section on Optics,
Refraction and Contact Lenses (1978-85)
Chairman, Ophthalmology Basic and Clinical Science Course, Section on Optics,
Refraction and Contact Lenses (1981-83)
Continuing Education TV Ophthalmology Program Committee (1978-81)
Chairman, Section on Refraction and Contact Lenses, Academy Regional Course
(1982-83)
Chairman, Committee on Ophthalmic Procedures Assessment (1982-90)
Representative to the Institute of Medicine, Council on Health Care Technology
(1987-90)
Associate Secretary for Technology and Terminology (1989-90)

National Institutes of Health

Program Planning Panel: Strabismus, Amblyopia, and Visual Processing (1980-81)
Visual Sciences B Study Section (1981-85)
National Advisory Eye Council (1992-95)

National Academy of Sciences

Committee on Vision of the National Research Council (1989-93)

Association for Research in Vision and Ophthalmology

Program Committee - Eye Movements, Strabismus, and Amblyopia Section
(1984)
Program Chairman - Eye Movements, Strabismus, and Amblyopia Section
(1985)
Board of Trustees (1991-97)
President-Elect (1994-95)
President (1995-96)

American Association for Pediatric Ophthalmology & Strabismus

Board of Directors (1989-94)
President-Elect (1992-93)
President (1993-94)

Consulting Activities

American Optical Corporation/Reichert Scientific Instruments
Consultant on Ophthalmic Instrumentation (1973-89)
Mentor O & O, Inc.
Consultant on Ophthalmic Instrumentation (1981-95)
Milner-Fenwick, Inc.
Consultant on Patient Education Films in Ophthalmology (1982-83)
Metaphase
Consultant on Ophthalmic Instrumentation (1992-93)

Department of Ophthalmology, the Johns Hopkins University School of Medicine

Representative to the Medical School Council (1978-80)
Chairman, Utilization Review Committee, The Wilmer Institute (1978-82)
Co-Chairman, The Wilmer Information System (1978-88)
Chairman, Operating Room Committee, The Wilmer Institute (1980-83)
Member, Executive Committee, The Wilmer Institute (1981-86, 88-92)
Chairman, Residency Education Committee, The Wilmer Institute (1986-89)
Chairman, Committee on Education (1989-92)
Chairman, Committee on Fiscal Responsibility and Financial Plan (1989-92)
Member, Long Range Planning Committee (1992- present)
Chairman, Communication and Information Systems Committee (1998-2003)

The Johns Hopkins University School of Medicine

Vice-Chairman, Medical School Council (1979-80)
Chairman, Subcommittee on Evaluation of Teaching (1979-80)
Member, Advisory Board, School of Medicine (1979-80)
Board of Student Advisors (1980-83)
Associate Professor Promotion Committee (1987-92)
Chairman, Associate Professor Promotion Committee (1991-92)
Member, Computer Systems Advisory Committee (1998-05)

Part-time Hospital Staff Appointments

1978-80 Veterans Administration Hospital System
1988-90 Sinai Hospital of Baltimore

Annual National and International Teaching Activities in Ophthalmic Optics

Basic Science Courses

1979-92, 2003-present (1-2 days)
Columbia University, Basic Sciences Course in Ophthalmology
1980-present Lancaster Course in Ophthalmology (4-5 days)
1984-present Stanford Basic Science Course in Ophthalmology (4-5 days)
1986-91 University of Puerto Rico and Pan American Association
of Ophthalmology, Basic Course in Ophthalmology (4 days)
1987-89 King Saud University, Riyadh, Saudi Arabia, Basic Science
Course in Ophthalmology (4 days)
2003- present Houston Basic Science Course, University of Texas (2 days)

Review Courses (8 hours each)

1981-88 Scheie Eye Institute, University of Pennsylvania
1983-89 Kresge Eye Institute, Wayne State University
1984-present Wills Eye Hospital
1986-89 New York Eye and Ear Infirmary
1989-91 Osler Institute

Named Lectures and Keynote Addresses

- 1991 – Pierre Jenkins Memorial Lecture, Medical University of South Carolina
- 1991 – Louis J. Girard Distinguished Alumnus Lecture, Baylor College of Medicine
- 1991 – Glover-Lisman Lecture, Manhattan Eye, Ear, and Throat Hospital
- 1991 – Richard E. Hoover Lecture, Greater Baltimore Medical Center
- 1991 – Keynote Address, Association of Technical Personnel in Ophthalmology
- 1995 – Angeline M. Parks Memorial Lecture, The Costenbader Society
- 1997 – Bryan Research Lecture, Duke University
- 1997 – Paul A. Chandler Lecture, Massachusetts Eye and Ear Infirmary
- 1998 – Frank D. Costenbader Lecture, American Association for Pediatric Ophthalmology and Strabismus - *“Dissociated Vertical Deviation: Etiology, Mechanism, and Associated Phenomena”*
- 1998 – John Milton McLean Lecture and Medal, Cornell University
- 1999 – N. Edgar Miles Lecture, Medical University of South Carolina
- 1999 – Goodwin M. Breinin Lecture, New York University School of Medicine
- 1999 – Alice R. McPherson Lecture, University of Wisconsin
- 2000 – Arthur W. Stickle Lecture, Washington University in Saint Louis
- 2000 – Gunter K. von Noorden Lecture, Baylor College of Medicine
- 2001 – Samuel B. Johnson Memorial Lecture, University of Mississippi
- 2002 – Gifford Lecture, University of Nebraska
- 2002 – George E. de Schweinitz Memorial Lecture, College of Physicians of Philadelphia- *“Strabismus in the Third Dimension”*
- 2003 – Richard G. Scobee Memorial Lecture, American Association of Certified Orthoptists – *“Dissociated Vertical Deviation: An Acquired Nystagmus-Blockage Phenomenon”*
- 2004 – Coleman Lecture, Cornell University
- 2004 – The Owen Belmont Memorial Lectureship on Optics and Refraction, Wills Eye Hospital
- 2004 – Commencement Address, University of Mississippi Medical Center – *“Medicine in Mississippi - A Special Heritage”*
- 2004 – Keynote Address, Combined Meeting of the Japan Society of Ophthalmological Optics and the Japan Association of Ophthalmic Medical Engineering – *“Adventures in Ophthalmic Optics”*
- 2005 – The Owen Belmont Memorial Lectureship on Optics and Refraction, Wills Eye Hospital
- 2005 – Dr. Guillermo Picó Santiago Lecture, Puerto Rico Ophthalmology Society – *“Optical Tricks and Traps in Ophthalmology”*
- 2006 – The 10th Bielschowsky Lecture, The International Strabismological Association, São Paulo, Brazil – *“Changes in Strabismus over Time ...”*
- 2006 – The Owen Belmont Memorial Lectureship on Optics and Refraction, Wills Eye Hospital

- 2006 – The 18th Wilmer Memorial Lecture, The 65th Annual Wilmer Residents Meeting – “*Strabismus and Pediatric Ophthalmology at The Wilmer Institute*”
- 2006 – The 2006 Jack S. Guyton Memorial Lecture, Henry Ford Eye Care Services, Detroit, MI – “*Changes in Strabismus over Time ...*”
- 2006 – The 2006 Robb-Peterson Lecture, Children’s Hospital Boston Pediatric Ophthalmology Fellowship Alumni Meeting, Migis Lodge, Sebago Lake, Maine - “*Changes in Strabismus over Time ...*”
- 2007 – The John E. Brown Memorial Lecture, Ohio State University - “*Strabismus Complications from Local Anesthetics*”
- 2007 - The Mildred Weisenfeld Award Lecture - Association for Research in Vision and Ophthalmology (ARVO) - “*A New Twist on Screwed-Up Eyeballs: Ocular Torsion reveals the Mechanisms of Cyclovertical Strabismus*”
- 2007 – The Jules Stein Lecture, Jules Stein Eye Institute, UCLA – “*Changes in Strabismus over Time ...*”

Bibliography*

1. Guyton, D.L., The Capacitor Stimulating Electrode, in Functional Neuromuscular Stimulation, Report of a Workshop. April 27-28. 1972, National Academy of Sciences, Washington, D.C., 1972, pp 135-142.
2. Guyton, D.L., Hambrecht, F.T., and Frank, K., A Capacitor Electrode for Chronic Stimulation, Fed. Proc. 32(3):365 (March, 1973).
3. Guyton, D.L. and Hambrecht, F.T., Capacitor Electrode: Stimulates Nerve or Muscle without Oxidation-Reduction Reactions, Science 181:74-76 (July 6, 1973).
4. Guyton, D.L. and Hambrecht, F.T., Theory and Design of Capacitor Electrodes for Chronic Stimulation, Medical and Biological Engineering 12:613-619 (September, 1974).
5. Guyton, D.L., Automated Refraction, Invest. Ophthalmol., 13:814-818 (November, 1974).
6. Guyton, D.L., Other Approaches to Automated Refraction, Trans. Am. Acad. Ophthalmol. Otolaryngol. 79:OP501-507 (May-June, 1975).
7. Guyton, D.L., Automated Refraction, Ophthalmology Basic and Clinical Science Course, Section 1: Optics and Refraction, American Academy of Ophthalmology and Otolaryngology, Rochester, MN, 1975, pp 30-33.
8. Guyton, D.L., Automated Refraction, Ophthalmology Basic and Clinical Science Course, Section 1: Optics, Refraction and Contact Lenses, American Academy of Ophthalmology and Otolaryngology, Rochester, MN, 1976, pp 41-44.
9. Guyton, D.L., The SR III Subjective Refraction System, The Optician 173(4487):12-13 (June 3, 1977).
10. Guyton, D.L., A Guide to Automated Refractors, The Optician 173(4489):7, 9, 11 (June 17, 1977).
11. Guyton, D.L., Automated Refraction, Ophthalmology Basic and Clinical Science Course, Section 2: Optics, Refraction and Contact Lenses, American Academy of Ophthalmology and Otolaryngology, Rochester, MN, 1977, pp 62-65.

[*A few abstracts are included (6 total), only when significant by date or when solely representing a new area of investigation.]

12. Guyton, D.L. (ed.) American Board of Ophthalmology Oral Examination, Ocular Motility Prop Booklet, 1977.
13. Guyton, D.L., An Automated Subjective Refractor, Trans. Am. Acad. Ophthalmol. Otolaryngol. 83:OP-865 (1977).
14. Guyton, D.L., Prescribing Cylinders: The Problem of Distortion, Surv. Ophthalmol. 22(3):177-188 (Nov.-Dec., 1977).
14. Guyton, D.L., Automated Clinical Refraction, in T.D. Duane (ed.) Clinical Ophthalmology, Vol. 1, Chap 67, Harper & Row, Hagerstown, Maryland, 1978.
15. Guyton, D.L., The American Optical SR III Subjective Refraction System, in International Symposium, on Ophthalmological Optics, Tokyo, Society of Ophthalmological Optics of Japan, pp. 81-84, 1978.
16. Guyton, D.L. and Crane, H.D., An Optical System with Continuously Variable Spherocylindrical Power, Proc. Soc. Photo-optical Instrumentation Engineers Vol. 141, Adaptive Optical Components, pp. 26-30, 1978.
17. Guyton, D.L. and von Noorden, G.K., Sensory Adaptations to Cyclodeviations, in Reinecke, R.D. (ed), Strabismus: Proceedings of the Third Meeting of the International Strabismological Association, pp. 399-403, 1978.
18. Guyton, D.L., A New Instrument for Automated Subjective Refraction, in Shimizu, K. and Oosterhaus, J.A. (eds), XXIII Concilium Ophthalmologicum, Kyoto, 1978, Amsterdam-Oxford, Excerpta Medica, pp. 1252-1255, 1979.
19. Guyton, D.L., Automated Clinical Refraction, in Sloane, A. and Garcia, G., Manual of Refraction, 3rd ed., Little, Brown and Company, Boston, pp. 225-243, 1979.
20. Guyton, D.L., (consulting editor and co-director) Videotape: "Aphakic Spectacles in Perspective," Continuing Education in Ophthalmology, American Academy of Ophthalmology, 1979.
21. Guyton, D.L., Prescribing Cylinders: The Problem of Distortion, reprinted in Ophthalmology Basic and Clinical Science Course, Section 2: Optics, Refraction, and Contact Lenses, American Academy of Ophthalmology, San Francisco, 1979, pp. 118-133.
22. Dale, R.T. and Guyton, D.L., "The Influence of Peripheral Fusion on the 4-Prism Diopter Base-Out Test," Invest. Ophthalmol. Vis. Sci. Supplement: 199 (April, 1979).

23. Guyton, D.L., Prescribing Cylinders: The Problem of Distortion, Audio Digest, Ophthalmology 18(8) (April 24, 1980).
24. Guyton, D.L., Automated Clinical Refraction, in Safir, A. (ed.), Refraction and Clinical Optics, chap. 27, Harper & Row, Hagerstown, Maryland, 1980.
25. O'Donnell, F.E., Del Monte, M., and Guyton, D.L., Simultaneous Correction of Blepharoptosis and Exotropia in Aberrant Regeneration of the Oculomotor Nerve by Strabismus Surgery: A New Simplified Ptosis Correction for Selected Cases, Ophthalmic Surgery 11(10):695-697 (October, 1980).
26. Guyton, D.L., Exaggerated Traction Test for the Oblique Muscles, Ophthalmology 88(10):1035-39 (October, 1981).
27. Guyton, D.L., Discussion of. Blue Field Entoptic Phenomenon in Amblyopia, Grunwald, J.E. et al, Ophthalmology, 88(10):1056-57 (October, 1981).
28. Guyton, D.L., Comparative Material on Automated Refractors - 1981, Ophthalmology 88(10S):70-83 (October, 1981).
29. Minkowski, J.S. and Guyton, D.L., Potential Visual Acuity in Cataractous Eyes, in Francois, J., Maumenee, A.E., and Esente, I. (eds), Cataract Surgery and Visual Rehabilitation, Proceedings of the 2nd International Congress on Cataract Surgery and Visual Rehabilitation of the Aphakic Eye, Florence, 1981, Milan, Libreria Scientifica gia Ghedini, 1982, pp. 51-52.
30. Guyton, D.L., Discussion of: Apparent Foveal Displacement in Normal Subjects and in Cyclotropia, Bixenman, W.W., and von Noorden, G.K., Ophthalmology 89(1):62 (January, 1982).
31. Guyton, D.L., Discussion of: Micronics and Overrefraction, Sims, C.N., Ophthalmology, 89(8):936 (August, 1982).
32. Guyton, D.L., Comparative Material on Automated Refractors - 1982, Ophthalmology 89(8S):16-32 (August, 1982).
33. Guyton, D.L., Lensmeters: Conventional, Digital and Automatic - 1982, Ophthalmology 89(8S):42-60 (August, 1982).
34. Guyton, D.L., Instruments for Measuring Retinal Visual Acuity Behind Cataracts - 1982, Ophthalmology 89(8S):34-39 (August, 1982).
35. Guyton, D.L., Automated Refractors: Factors Are Analyzed in Determining Choice, Ophthalmology Times 7(15):1, 18, 20, 21, 26-28 (October 15, 1982).

36. Guyton, D.L., Automated Clinical Refraction, In T.D. Duane (ed.) Clinical Ophthalmology, Vol. 1, chap 67, Lippincott/Harper, Philadelphia, 1983, pp. 1-43.
37. Guyton, D.L., The American Optical SR-IV Programmed Subjective Refractor - Principles of Design and Operation, Am. J. Optom. Physiol. Optics 59(10):800-814 (October, 1982).
38. Guyton, D.L., Disorders of the Eye: Disturbances of Motility, in Avery and Tausch (eds), Diseases of the Newborn, Philadelphia, W.B. Saunders, 1984, pp 906-908.
39. Guyton, D.L., A New Test for Determining Who Will Benefit from Cataract Surgery, in Eye Research Seminar, New York, Research to Prevent Blindness, 1983, pp. 37-39.
40. Thompson, J.T. and Guyton, D.L., Ophthalmic Prisms: Measurement Errors and How to Minimize Them, Ophthalmology 90(3):204-210 (March, 1983).
41. Guyton, D.L., Computerized Diagnostic Instruments for Ophthalmic Practice, Ophthalmology 90(9S):115-119 (September, 1983).
42. Guyton, D.L., Discussion of Morton, G., Lucchese, N., and Kushner, B., The Role of Funduscopy and Fundus Photography in Strabismus Diagnosis, Ophthalmology 90(10):1186-1191 (October, 1983).
43. Minkowski, J.S., Palese, M., and Guyton, D.L., Potential Acuity Meter Using a Minute Aerial Pinhole Aperture, Ophthalmology 90(11):1360-1368, 1983.
44. Guyton, D.L., A Distortion-Free Cross Cylinder System for Automated Subjective Refraction, in Henkind, P. et al (eds), ACTA XXIV International Congress of Ophthalmology 1982, Lippincott, Philadelphia, 1983, pp. 1201-1204.
45. Guyton, D.L., A Distortion-Free Cross Cylinder System for Automated Subjective Refraction, in Brienin, G. and Siegel, I., (eds), Advances in Diagnostic Visual Optics, Springer-Verlag, Berlin, 1983, pp 84-88.
46. Guyton, D.L., Politics, Special Interests, and Realities in International Standards, in Henkind, P. et al (eds), ACTA XXIV International Congress of Ophthalmology 1982, Lippincott, Philadelphia, 1983, pp. 1286-1288.
47. Guyton, D.L., A Remote Cover Test Using Concave Mirrors, in Reinecke, R.D. (ed.) Strabismus II, New York, Grune & Stratton, 1984, pp. 857-863.
48. Guyton, D.L., Automated Refractors: A Continuing Evolution, Introduction to Chapter 3, Vision, Refraction, and Contact Lenses, in Ernest, T. (ed) The Year Book of Ophthalmology - 1983, Year Book Medical Publishers, Chicago, 1983, pp. 69-71.

49. Wright, K.W. and Guyton, D.L., A Pretreatment Test for Predicting the Effectiveness of Penalization, in Henkind, P. et al (eds), ACTA XXIV International Congress of Ophthalmology 1982, Lippincott, Philadelphia, 1983, pp. 896-901.
50. Scattergood, K.D., Brown, M.H., and Guyton, D.L., Artifacts Introduced by Spectacle Lenses in the Measurement of Strabismic Deviations, Am. J. Ophthalmol. 96(4):439-448 (October, 1983).
51. Guyton, D.L., Automated Refractors - 1983, Ophthalmology 90(9S):36-44, (September, 1983).
50. Taylor, H., Piro, P., Zubrowski, S. and Guyton, D.L., A Classification and Coding System for Information Retrieval on Diagnosis and Therapy, Ophthalmology 90(10):1254-1257 (October, 1983).
52. Guyton, D.L. Clinical Assessment of Ocular Torsion, Am. Orthoptic J. 33:7-15, 1983.
53. Guyton, D.L. and Gamble, L. (eds), Laser Trabecular Surgery for Open-Angle Glaucoma, Ophthalmic Procedures Assessment Recommendations, American Academy of Ophthalmology, San Francisco, 1983.
54. Guyton, D.L., Strabismus Surgery, Chap. 4 in Rice, T.H., Michels, R.G., and Stark, W.J. (eds) Ophthalmic Surgery, 4th ed., St. Louis/London, Mosby/Butterworths, 1984, pp. 85-113.
55. Roe, L.D., and Guyton, D.L., the Red Reflex from Retinoscopy's Point of View: Reflections on a Small Area, Surv. Ophthalmol. 28(4):345-348 (January-February, 1984).
56. Roe, L.D., and Guyton, D.L., An Ophthalmoscope Is Not a Retinoscope: The Difference is in the Red Reflex, Surv. Ophthalmol. 28(5):405-408 (March-April, 1984).
57. Roe, L.D., Guyton, D.L., The Light that Leaks: Brückner and the Red Reflex, Surv. Ophthalmol. 28(6):665-670 (May-June, 1984).
58. Minkowski, J.S. and Guyton, D.L., New Methods for Predicting Visual Acuity after Cataract Surgery, Ann. Ophthalmol. 16(6):511, 513-516 (June, 1984).
59. Guyton, D.L., Preoperative Evaluation of Visual Potential in Patients with Cataracts. Practical Reviews in Ophthalmology 1(7): audiotape presentation, 1984.
60. Guyton, D.L., Discussion of Paez, J.H., Isenberg, S. and Apt. L., Torsion and Elevation Under General Anesthesia and During Voluntary Eyelid Closure (Bell Phenomenon), J. Ped. Ophthalmol. Strab. 21(2):78 (March-April, 1984)

61. Guyton, D.L., *Diagnosis and Treatment of Monocular Diplopia- Focal Points 1984: Clinical Modules for Ophthalmologists, Module 2*, American Academy of Ophthalmology, San Francisco, 1984.
62. Guyton, D.L., Comment on Halliday, B.L., and Ross, J.E., Comparison of 2 Interferometers for Predicting Visual Acuity in Patients with Cataract, Surv. Ophthalmol. 28(6):691-692 (May-June, 1984).
63. Walsh, P.M., and Guyton, D.L., Letter to the Editor, Comparison of Two Methods of Marking the Visual Axis on the Cornea During Radial Keratotomy, Am. J. Ophthalmol. 97(5):660-661 (May, 1984.)
64. Guyton, D.L. and Gamble, L. (eds), *Ophthalmic Neodymium:YAG Lasers: Safety and Effectiveness, Ophthalmic Procedures Assessment Recommendations*, American Academy of Ophthalmology, San Francisco, 1984.
65. Henningson, M.A. and Guyton, D.L., Simulated Subjective Refractometry for Practice or Instruction. J. Ophthalmic Nursing and Technology 3(4):147-148 (July-August, 1984).
66. Guyton, D.L., Discussion of Kushner, B.J., Kraft, S.E., and Vrabcic, M., Ocular Torsional Movements in Humans with Normal and Abnormal Ocular Motility - Part 1: Objective Measurements, J. Ped. Ophthalmol. Strabismus 21(5):172-178 (September/October, 1984).
67. Guyton, D.L., Automated Refractors - 1984, Ophthalmology 91(9S): 1-9 (September, 1984).
68. Guyton, D.L., The Reliability of Retinal Visual Acuity Measurements Behind Cataracts, Introduction to Chapter 3, Vision, Refraction, and Contact Lenses, in Ernest, T. (ed), The Year Book of Ophthalmology - 1984, Year Book Medical Publishers, Chicago, 1984, pp. 55-58.
69. Guyton, D.L., Artifacts Introduced by Spectacle Lenses in the Measurement of Strabismic Deviations (Correspondence) Am. J. Ophthalmol. 99(1):91-92 (January, 1985).
70. Guyton, D.L., Allen, J., and Scattergood, K.D., Remote Optical Systems for Vision Research, Invest. Ophthalmol. Vis. Sci. 26(suppl):253 (March, 1985).
71. Miller, K.M., Quigley, H.A., and Guyton, D.L., Absolute Neuroretinal Rim Area by Laser Interferometry, Invest. Ophthalmol. Vis. Sci. 26(suppl):223 (March, 1985).

72. Simons, K. and Guyton, D.L., Artificially Induced Monocular Diplopia as a Low Vision Aid in Patients with Macular Scotoma, Invest. Ophthalmol. Vis. Sci. 26(suppl):219 (March, 1985).
73. Thompson, J.T. and Guyton, D.L., Ophthalmic Prisms: Deviant Behavior at Near, Ophthalmology 92:684-690 (May, 1985).
74. Henningson, M.A. and Guyton, D.L., Projection-Simulated Ametropia: A Model for Teaching Subjective Refraction, Ophthalmology 92:831-833 (June, 1985).
75. Guyton, D.L., The Posterior Fixation Procedure: Mechanism and Indications, in Nelson, L.B. and Wagner, R.S. (eds), Strabismus Surgery, International Ophthalmology Clinics, 25(4):79-88 (Winter, 1985).
76. Repka, MX, Gallin, P.F., Scholz, R.T., and Guyton, D.L., Determination of Optical Penalization by Vectographic Fixation Reversal, Ophthalmology. 92:1584-1586 (November, 1985).
77. Harris, M.J., Robins, D., Dieter, J.M., Jr., Fine, S.L., and Guyton, D.L., Eccentric Visual Acuity in Patients with Macular Disease, Ophthalmology - 92:1550-1553 (November, 1985).
78. Repka, MX, Kellman, S., and Guyton, D.L., Prism Measurement of Incomitant Strabismus, Binocular Vision. 1:45-49, 1985.
79. Guyton, D.L., Prescribing Cylinders Postoperatively, Introduction to Chapter 3, Vision, Refraction, and Contact Lenses, in Ernest, T. (ed), The Year Book of Ophthalmology – 1985, Year Book Medical Publishers, Chicago, 1985, pp 63-66 .
80. Greene, P.R. and Guyton, D.L., Extraocular Muscle Effects on Lid-Suture Myopia. J. Opt. Soc. Amer. 72(12):1838 (1982).
81. Guyton, D.L., The 4 Prism Diopter Base-Out Test: What Is It Really Good For? The Prism (no vol):1-2 (October-November, 1985).
82. Guyton, D.L., A Plea for Prism Diopters. Binocular Vision. 1(2):66 (1985).
83. Guyton, D.L., Misleading Predictions of Postoperative Visual Acuity. Arch. Ophthalmol. 104(2):189-190 (February, 1986).
84. Simons, K., Moss, A., and Guyton, D.L., A Remote Haploscope-based Dynamic Stereogram System for Vision Screening of Infants and Young Children. Invest. Ophthalmol. Vis. Sci. 27(suppl):152 (March, 1986).

85. Guyton, D.L., Review of The Myopias: Basic Science and Clinical Management by Brian J. Curtin, M.D., Surv. Ophthalmol. 31(5):357-358 (March-April, 1986).
86. Guyton, D.L., Disclosure of Self-interest. Ophthalmology 93: (April, 1986).
87. Greene, P.R. and Guyton, D.L., Time Course of Rhesus; Lid-Suture Myopia. Exp. Eye Res. 42:529-534 (1986).
88. Guyton, D.L., Focusing Ophthalmic Instruments, Introduction to Chapter 3, Vision, Refraction, and Contact Lenses, in Ernest, T. (ed), The Year Book of Ophthalmology -1986, Year Book Medical Publishers, Chicago, 1986, pp. 61-63.
89. Guyton, D.L., and Terry, A.C. (eds), Cataract Surgery in the 1980s, Ophthalmic Procedures Assessment, American Academy of Ophthalmology, San Francisco, 1986.
90. Repka, MX, Uozato, H., and Guyton, D.L., Depth Distortion during Slit Lamp Biomicroscopy of the Fundus. Ophthalmology 93(9 suppl):47-51 (September, 1986).
91. Wisnicki, H.J. and Guyton, D.L., A Modified Corneal Light Reflex Test with Distance Fixation, Am. J. Ophthalmol. 102(5):661-662 (November, 1986).
92. Del Priore, LV. and Guyton, D.L., The Jackson Cross Cylinder: A Reappraisal, Ophthalmology 93:1461-1465 (November, 1986).
93. Guyton, D.L., Retinoscopy: Plus Cylinder Technique (videotape), Continuing Ophthalmic Video Education, American Academy of Ophthalmology, 1986.
94. Guyton, D.L., Retinoscopy: Minus Cylinder Technique (videotape), Continuing Ophthalmic Video Education, American Academy of Ophthalmology, 1986.
95. Guyton, D.L. (ed), Thymoxamine: The Need for Orphan Drug Status, Ophthalmic Procedures Assessment Recommendations, American Academy of Ophthalmology, San Francisco, 1986.
96. Guyton, D.L., Remote Optical Systems for Ophthalmic Examination. Trans. Am. Ophthalmol. Soc. 84:869-919 (1986).
97. Guyton, D.L., Preoperative Visual Acuity Evaluation, in Stark, W.J., Terry, A.C., and Maumenee, A.E., Anterior Segment Surgery, Williams & Wilkins, Baltimore, 1987, pp. 5360.
98. Fiorentini, A., Guyton, D.L., and Siegel, I.M. (eds), Advances in Diagnostic Visual Optics, Springer-Verlag, Berlin, 1987.

99. Guyton, D.L., Simons, K., Moss, A., Allen J., and Scattergood, K.D., Remote Optical Systems for Clinical and Research Applications in Visual Science, in Fiorentini, A., Guyton, D.L., and Siegel, I.M. (eds), Advances in Diagnostic Visual Optics, Springer-Verlag, Berlin, 1987, pp. 62-69.
100. Uozato, H. and Guyton, D.L., Ophthalmic Applications of Moiré Patterns from Separated Gratings, in Fiorentini, A., Guyton, D.L., and Siegel, I.M. (eds), Advances in Diagnostic Visual Optics, Springer-Verlag, Berlin, 1987, pp. 96-101.
101. Guyton, D.L., Ocular Torsion: Sensorimotor Principles, Am. Orthoptic J. 37:13-21 (1987).
102. Uozato, H. and Guyton, D.L., Centering Corneal Surgical Procedures. Am. J. Ophthalmol. 103:264-275 (March, 1987).
103. Guyton, D.L., Allen, J., Simons, K., and Scattergood, K.D., Remote Optical Systems for Ophthalmic Examination and Vision Research. Appl. Optics 26:1517-1526 (April 15, 1987).
104. Uozato, H., Loupe, D., and Guyton, D.L., Theoretical Analysis of the Hirschberg Test (in Japanese). Jap. Rev. Clin. Ophthalmol. 81(5):1204-1207 (1987).
105. Guyton, D.L. (ed), Punctal Occlusion for the Dry Eye, Ophthalmic Procedure Assessment Recommendations, American Academy of Ophthalmology, San Francisco, 1987.
106. Guyton, D.L., Optical Pearls and Pitfalls in Strabismus (in Japanese), The Bulletin of the Japanese Association of Strabismus and Amblyopia 24(3):9-10 (1987).
107. Guyton, D.L. and Del Priore, L.V., The Jackson Cross Cylinder: A Reappraisal (Correspondence), Ophthalmology 94(7):893-894 (1987).
108. Guyton, D.L., Optical Pearls and Pitfalls in Strabismus, Audio-Digest Ophthalmology 25(17): audiotape (September 3, 1987).
109. Repka, M.X., Uozato, H., Guyton, D.L., Depth Distortion During Slit Lamp Biomicroscopy of the Fundus, Audio-Digest Ophthalmology 25(17): audiotape (September 3, 1987).
110. Guyton, D.L., Preoperative Visual Acuity Evaluation, in Roberts, C.W. (ed), New Developments in Cataract Surgery, International Ophthalmology Clinics 27(3):140-148 (1987).
111. Guyton, D.L., Book Review: The Myopias: Basic Science and Clinical Management, Surv. Ophthalmol. 31(5):357-358 (March-April, 1987).

112. Mallette, R.A., Repka, MX, and Guyton, D.L., Superior Rectus Recession for Dissociated Vertical Deviation, Binocular Vision 2(4):209-215 (1987).
113. Uozato, H. and Guyton, D.L., A Clinical Method for Estimating Intraocular Lens Tilt and Decentration Using 3rd and 4th Purkinje Images (in Japanese), J. Ophthalmic Optics Soc. Japan 8(1):110-115 (1987).
114. Miller, K. M., Simons, K, and Guyton, D.L., Television Retinoscopy with a Slit-Aperture Retinoscope and a Highly-Sensitive Camera, Ophthalmology 94(S):22-27 (1987).
115. Fukuhara, J., Miller, K. M., Vega, C., and Guyton, D.L., A Teaching Attachment for Retinoscopy, Ophthalmology 94(5):28-30 (1987).
116. Guyton, D.L., Subjective Refraction: Cross Cylinder Technique (videotape), Continuing Ophthalmic Video Education, American Academy of Ophthalmology, San Francisco, 1987.
117. Guyton, D.L., Documenting Visual Disability from Immature Cataracts, Introduction to Chapter 3, Vision, Refraction, and Contact Lenses, in Ernest T. (ed), The Year Book of Ophthalmology - 1987, Year Book Medical Publishers, Chicago, 1987, pp. 47-50.
118. Guyton, D.L., Introduction: Radial Keratotomy in Perspective, J. Refractive Surg. 3(5):186 (September/October, 1987).
119. Guyton, D.L., Moss, A., and Simons, K., Automated Measurement of Strabismic Deviations Using a Remote Haploscope and an Infrared Television-Based Eye Tracker, Trans. Am. Ophthalmol. Soc. 85:320-331 (1987).
120. Uozato, H., Guyton, D.L., Sudo, T., and Saishin, M., Optical Zone of Contact Lenses for Glare-Free Vision (in Japanese), J. Japan Contact Lens Soc. 29:305-310 (1987).
121. Uozato, H., and Guyton, D.L., Centering Error Analysis in Corneal Surgical Procedures (in Japanese), Folia Ophthalmol. Jap. 38(8):1162-1167 (1987).
122. Uozato, H., and Guyton, D.L., A Simple Method for the Measurement of the Angle Lambda of the Eye (in Japanese), Folia Ophthalmol. Jap. 38(9):1324-1329 (1987).
123. Uozato, H., and Guyton, D.L., Centering Corneal Surgical Procedures (in Japanese), Jap. Rev. Clin. Ophthalmol. 81(9):2111-2118 (1987).
124. McCartney, D.L., Miller, K.M., Stark, W.J., Guyton, D.L., and Michels, R.G., Intraocular Lens Style and Refraction in Eyes Treated with Silicone Oil, Arch. Ophthalmol. 105:1385-1387 (October, 1987).

125. Uozato, H., Saishin, M., and Guyton, D.L., A Clinical Method for the Measurement of the Angle Lambda of the Eye (in Japanese), Jap. Rev. Clin. Ophthalmol. 82(1):138-141 (1988).
126. Guyton, D.L., Simons, K., Moss, A., Allen, J., Scattergood, K.D., and Uozato, H., Remote Optical Systems for the Measurement of Strabismus and Visual Function (in Japanese), Jap. Rev. Clin. Ophthalmol. 82(2):266-276 (1988).
127. Wisnicki, H.J. and Guyton, D.L., A Computerized Clinical Database: Application for Strabismus. Binocular Vision 3(2):85-88 (1988).
128. Miller, K.M., Wisnicki, H.J., Buchman, J.P., Riley, M.J., Repka, M.X., Taylor, H.R., and Guyton, D.L., The Wilmer Information System: A Classification and Retrieval System for Information on Diagnosis and Therapy in Ophthalmology. Ophthalmology 95:403-409 (March, 1988).
129. Repka, MX and Guyton, D.L. Comparison of Hang-back Medial Rectus Recession with Conventional Recession. Ophthalmology 95:782-787 (1988).
130. Coffeen, P. and Guyton, D.L., Monocular Diplopia Accompanying Ordinary Refractive Errors. Am. J. Ophthalmol. 105:451-459 (May, 1988).
131. Guyton, D.L., Ocular Torsion: Sensorimotor Principles, Graefe's Arch. Clin. Exp. Ophthalmol. 226: 241-245 (1988).
132. Guyton, D.L., Moss, A., and Simons, K., Automated Measurement of Strabismic Deviations Using a Remote Haploscope and an Infrared Television-Based Eye Tracker, Am. Orthoptic J. 38:123-129 (1988).
133. Wisnicki, H.J., Repka, MX and Guyton, D.L., Reoperation Rate in Adjustable Strabismus Surgery. J. Ped. Ophthalmol. Strabismus 25:112-114 (1988).
134. Uozato, H., Wisnicki, H.J., and Guyton, D.L., Rapid Determination of Implanted IOL Tilt and Decentration Through the Undilated Pupil (in Japanese), Folia Ophthalmol. Jap. 39: 2155-2161 (1988).
135. Guyton, D.L., Automated Refractors, in Stein, H.A., Slatt, B.J., and Stein, R.M., The Ophthalmic Assistant, 5th ed, St. Louis, C.V. Mosby Co., 1988, pp. 239-246.
136. Guyton, D.L.: Clinical Evaluation of the Obscured Macula. In Ryan S.J. (ed): Retinal Diseases: Medical and Surgical Management, Vol. 1, St. Louis, C-V. Mosby Co., 1988, pp. 275-284.

137. Mallette, R.A., Kwon, J.Y., and Guyton, D.L., A Technique for Repairing Strabismus After Scleral Buckling Surgery. Am. J. Ophthalmol. 106(3):364-365 (September, 1988).
138. Capó, H., Mallette, R.A., and Guyton, D.L., Overacting Oblique Muscles in Exotropia: A Mechanical Explanation. J. Ped. Ophthalmol. Strabismus 25(6):281-285, (Nov-Dee, 1988).
139. Repka, MX, Wellish, K., Wisnicki, H.J., and Guyton, D.L., Refractive Error of Spectacle-Treated Patients with Accommodative Esotropia. Binocular Vision 4(1):15-21 (Winter, 1989).
140. Guyton, D.L., Greene, P.R., and Scholz, R.T., Dark-rearing Interference with Emmetropization in the Rhesus; Monkey. Invest. Ophthalmol. Vis. Sci. 30(4):761-764 (April, 1989).
141. Capó, H., Repka M.X., and Guyton, D.L., Hang-back Lateral Rectus Recessions for Exotropia. J. Ped. Ophthalmol. Strabismus 26:31-34, 1989.
142. Guyton, D.L., Optics & Refraction. In Vaughan, D., Asbury, T., and Tabbara, K.F. (eds), General Ophthalmology, 12th ed, Los Altos, CA, Appleton & Lange, 1989, pp 350-369.
143. Guyton, D.L., Automated Clinical Refraction. In Garcia, G-E-(ed), Handbook of Refraction. 4th ed., Boston, Little, Brown and Company, 1989, pp. 149-160.
144. Maloney, R.K., Miller, K.M., Guyton, D.L., Aphakic Reading Adds: An Error in Traditional Teaching. Ophthalmology 96(8):1253-1256, (August, 1989).
145. Guyton, D.L., Cylinders and Bifocals - When to Put on an Addition? In Deutsch, T.A. (ed.), Ophthalmic Clinical Debates, Chicago, Year Book Medical Publishers, 1989, pp. 295-297.
146. Guyton, D.L. and Gamble, L. (eds), Radial Keratotomy for Myopia, Ophthalmic Procedures Assessment, American Academy of Ophthalmology. Ophthalmology 89(5): 671-687 (May, 1989).
147. Zisser, H.C. and Guyton, D.L., Photographic Simulation of Image Quality through Bifocal Intraocular Lenses. Am. J. Ophthalmol. 108(9): 324-326, (September, 1989).
148. Guyton, D.L., Potential Visual Acuity behind Cataracts. Audio-Digest Ophthalmology 27:No. 24 (December 14, 1989).
149. Miller, K.M., Capó, H., Mallette, R.A., and Guyton, D.L., Ocular Motility and Binocular Vision, Vol. 7 of Sights and Sounds in Ophthalmology. St. Louis, C.V. Mosby Co., 1989.

150. Guyton, D.L., Book Review: Optics for Ophthalmologists: A Board Review Manual, Arch Ophthalmol. 108(3): 334-335 (March, 1990).
151. Fishman, P.H., Repka, MX, Green, W.R., D'Anna, S.A., and Guyton, D.L., A Primate Model of Anterior Segment Ischemia after Strabismus Surgery: The Role of the Conjunctival Circulation. Ophthalmology 97:456-461 (March, 1990).
152. Goldberg, S.H., Bullock, J.D., and Guyton, D.L., Esotropia Following Bilateral Lateral Orbital Decompressions for Graves' Disease. Ophthalmic Plastic and Reconstructive Surgery 6(3):190-192 (1990).
153. Guyton D.L., Discussion of Mazow, M.L. et al., Acute Accommodative and Convergence Insufficiency. Tr. Am. Ophthalmol. Soc. 87:172 (1990).
154. Guyton, D.L., and Gamble, L. (eds), Epikeratoplasty, Ophthalmic Procedures Assessment, Ophthalmology 97(9):1225-1232 (September, 1990).
155. Guyton, D.L. and Rubin G.S. (eds), Contrast Sensitivity and Glare Testing in the Evaluation of Anterior Segment Disease, Ophthalmic Procedures Assessment, Ophthalmology 97(9):1233-1237 (September, 1990).
156. Guyton, D.L., Uozato, H., and Wisnicki, H.J., Rapid Determination of Intraocular Lens Tilt and Decentration Through the Undilated Pupil. Ophthalmology 97(10):1259-1264 (October, 1990).
157. Repka, MX, Fishman, P.J., and Guyton, D.L., The Site of Reattachment of the Extraocular Muscle Following Hang-Back Recession. J. Ped. Ophthalmol. Strabismus 27(6):286-290 (Nov-Dec, 1990).
158. Guyton, D.L. and O'Connor, G.M., Dynamic Retinoscopy. Current Opinion in Ophthalmology 2(1):78-80 (January-February, 1991).
159. Oohira, A., Zee, D.S., and Guyton, D.L., Disconjugate Adaptation to Long-Standing, Large-Amplitude, Spectacle-Corrected Anisometropia. Invest. Ophthalmol & Vis. Sci. 32(4):1693-1703 (April, 1991).
160. McCartney, D.L., and Guyton D.L., The Choice of Posterior Chamber Intraocular Lens Style in Patients with Diabetic Retinopathy (Letter) Arch. Ophthalmol. 109:615 (1991).
161. Sawusch, M.R., and Guyton, D.L., Optimal Astigmatism to Enhance Depth of Focus after Cataract Surgery. Ophthalmology 98(7):1025-1029 (July, 1991).

162. Guyton, D.L. (ed), Functional Indications for Upper and Lower Eyelid Blepharoplasty: Ophthalmic Procedures Assessment. Ophthalmology 98(9):1461-1463 (September, 1991).
163. Guyton, D.L., and Gamble, L. (eds), Ready-to-wear Reading Glasses: Ophthalmic Procedures Assessment. Ophthalmology 98(9):1469-1470 (September, 1991).
164. Uozato, H., Guyton, D.L., and Waring, G.O., Centering Corneal Surgical Procedures, in Waring, G.O. (ed), Keratotomy for Myopia and Astigmatism. St. Louis, C.V. Mosby Co., 1992.
165. Pacheco, E.M., Guyton, D.L., and Repka, MX, Changes in Eyelid Position Accompanying Vertical Rectus Muscle Surgery and Prevention of Lower Lid Retraction With Adjustable Surgery. J. Ped. Ophthalmol. Strabismus 29(5):265-272 (Sept-Oct, 1992).
166. Repka, MX, and Guyton, D.L., Correspondence: Effectiveness of "Hang-Back" Suspension-Recession Eye Muscle Surgery. Binocular Vision Quarterly 7(1): 10 (Winter, 1992).
167. Weingarten, P.E., and Guyton, D.L., Surgery to Correct Cyclotropia. In Tasman W. and Jaeger, E.A., Duane's Clinical Ophthalmology, Philadelphia, J.B. Lippincott, Vol.6, chap. 97, 1993.
168. Guyton, D.L., Visual Assessment of the Immature Cataract. Audio-Digest Ophthalmology 31(14): audiotape (July 27, 1993).
169. Guyton, D.L., Should I Buy an Autorefractor? Audio-Digest Ophthalmology 31(14): audiotape (July 27, 1993).
170. Guyton, D.L., Contribution to Spencer, J.B., A Practical Approach to Refraction in Children. Focal Points: Clinical Modules for Ophthalmologists 11(4):8-10 (June, 1993).
171. Lam, G.C., Repka, M.X., and Guyton, D.L., Timing of Amblyopic Therapy Relative to Strabismus Surgery. Ophthalmology 100:1751-1756 (December, 1993).
172. Guyton, D.L. and O'Connor, G.M., Dynamic Retinoscopy. Binocular Vision & Eye Muscle Surgery Quarterly 9(1):15-17 (Winter, 1994). (reprint of 1991 Current Opinion in Ophthalmology article.)
173. Guyton, D.L., Clinical Evaluation of the Obscured Macula. In Ryan, S.J., Retina, 2nd ed., Vol. 1, St. Louis, Mosby, 1994, pp. 310-320.
174. Guyton, D.L., More on Optical Zone Centration, Letter to the Editor, Ophthalmology 101(5):793 (May, 1994).

175. Guyton, D.L., and Weingarten, P.E., Sensory Torsion as the Cause of Primary Oblique Muscle Overaction/Underaction and A- and V-pattern Strabismus. Binocular Vision & Eye Muscle Surgery Quarterly 9(3):209-236 (Summer, 1994).
176. Murillo-Lopez, F., Fukuhara, J., Wisnicki, H.J., Guyton, D.L., Origin of the foveal granular pattern in entoptic viewing. Invest. Ophthalmol. Vis. Sci. 35(8):3319-3324, 1994.
177. Miller, M.M., Guyton, D.L., Loss of fusion and the development of A or V patterns. J. Ped. Ophthalmol. Strabismus 31(4):220-224, 1994.
178. Miller, K.M., Cooper, K.L., and Guyton, D.L., A Gyroscope Deviometer for Measurement of Strabismus. J. Ped. Ophthalmol. Strabismus 31(4):251-255, 1994.
179. Hunter, D.G., Lam, G.C., and Guyton D.L., Inferior Oblique Muscle Injury From Local Anesthesia for Cataract Surgery. Ophthalmology 102:501-509, March, 1995.
180. Miller, J.M., Hall, H.L., Greivenkamp, J.E., and Guyton, D.L., Quantification of the Brückner Test for Strabismus. Invest. Ophthalmol. Vis. Sci. 36(4):897-905, 1995.
181. Goodman, C.R., Chabner, E., and Guyton, D.L., Should Early Surgery be Performed for Ocular Torticollis to Prevent Facial Asymmetry? J. Ped. Ophthalmol Strabismus 32:162-166, 1995.
182. Flüeler, U.R. Elhatton, K.M., and Guyton, D.L., A Combination Horizontal/Vertical Prism Bar: A Precisely Calibrated Tool for Use In Front of One Eye. Strabismus 3(1):27-32, 1995.
183. Flüeler, U.R. and Guyton, D.L., Does a Tilted Retina Cause Astigmatism? The Ocular Imagery and the Retinoscopic Reflex Resulting From a Tilted Retina. Surv. Ophthalmol. 40(1):45-50, 1995.
184. Sener, E.C., Yildirim, C., Sanac, A.S., and Guyton, D.L., Inferior Oblique Disinsertion: Effect on Horizontal Binocular Alignment in Primary Position. Binocular Vision & Eye Muscle Surgery Quarterly 10(4):233-243, 1995.
185. Lewis, R., Zee, D., Repka, M.X., Guyton, D.L., Miller NR, Regulation of Italic and Dynamic Ocular Alignment in Patients with Trochlea Nerve Pareses. Vision Research 35:3255-3264 (1995).
186. Guyton, D.L., Strabismus Complications from Local Anesthetics. In: Anterior Segment and Strabismus Surgery, Trans. New Orleans Acad. Ophthalmol. Kugler, New York, 1996, pp. 243-251.

187. Guyton, D.L., Strabismus Surgery Decisions Based on Torsion Findings. In: Anterior Segment and Strabismus Surgery, Trans. New Orleans Acad. Ophthalmol. Kugler, New York, 1996, pp 129-137.
188. Guyton, D.L., Discussion of "Distance Stereo Acuity Improvement in Exotropic Patients Following Strabismus Surgery" by O'Neal, T.D., Rosenbaum, A.L., and Stathacopoulos, R.A., J. Ped. Ophthalmol. Strabismus 32:353-357, 1995.
189. Guyton, D.L., Miller, J.M., and West, C.E., Optical Pearls and Pitfalls: Tricks and Traps in Strabismus. In Wright, K.W., Pediatric Ophthalmology and Strabismus. St. Louis, Mosby, 1995, Chap. 17, pp. 243-248.
190. Guyton DL, The Dilemma of Early Myopia: The Physician's Perspective. Health News, September 19, 1995.
191. Guyton, D.L., Discussion of "Physiological Strategies for Emmetropia" by Koretz, J.F., Rogot, A., and Kaufman, P.L., Trans. Am. Ophthalmol. Soc. 93:755-800, 1995.
192. Capó, H. and Guyton, D.L., Ipsilateral Hypertropia Following Cataract Surgery. Ophthalmology 103(5):721-730, 1996.
193. Conner, T.B., Guyton, D.L., Repka, M.X., and Jain, R., The Adjustable Globe: A Technique for Adjustable Strabismus Surgery. J. Ped. Ophthalmol. Strabismus 33(3): 156-163, 1996.
194. Flüeler, U.R., Elhatton, K.M., and Guyton, D.L., Eine Kombination einer horizontalen/vertikalen Prismenleiste. Klin. Monatsbl. Augenheilkd. 208:343-347, 1996.
195. Guyton, D.L., Vertical Strabismus after Cataract Surgery – Reply – (Letter to the Editor). Ophthalmology 103:1521-1522 (October, 1996)
196. Dubovy, S.R., Guyton, D.L., and Green, W.R., Clinicopathologic Correlation of Chorioretinitis Sclopetaria. Retina 17:510-520 (1997).
197. Guyton, D.L., Management of Amblyopia. Audio-Digest Ophthalmology 35(17) (September 1, 1997).
198. Simons, K., Stein, L., Sener, E.C., Vitale, S., Guyton, D.L. Full-time Atropine, Intermittent Atropine, and Optical Penalization and Binocular Outcome in Treatment of Strabismic Amblyopia. Ophthalmology 104:2143-2155, 1997.
199. Ellis, F.J., Stein, L.A., and Guyton, D.L., Masked Bilateral Superior Oblique Paresis: A Simple Overcorrection Phenomenon. Ophthalmology 105:544-551 (March, 1998).

200. Hunter, D.G., Guyton, D.L. Vertical Location of the Corneal Light Reflex in Strabismus Photography. Arch Ophthalmol 116:767-71 (1998).
201. Guyton, D.L., Cheeseman, E.W., Jr., Ellis, F.J., Straumann, D., and Zee, D.S. Dissociated Vertical Deviation: An Exaggerated Normal Eye Movement Used to Damp Cyclovertical Latent Nystagmus. Trans. Amer. Ophthalmol. Soc. 96, 389-429 (1998).
202. Guyton D.L., Cheeseman, E.W., Jr., Ellis, F.J., Straumann, D., and Zee, D.S. Dissociated Vertical Deviation: Etiology and Mechanism; in Lennerstrand, G (ed), Advances in Strabismology, Erichem, The Netherlands, Aeolus Press Science Publishers, 1998.
203. Hwang, J.M., Guyton D.L. The Lancaster Red-Green Test Before and After Occlusion in the Evaluation of Incomitant Strabismus. J of AAPOS 3:151-156 (June, 1999).
204. Hunter D.G., Patel, S.N., Guyton, D.L. Automated Detection of Foveal Fixation by Use of Retinal Birefringence Scanning. Applied Optics 38:1273-1279 (1999).
205. Guyton, D.L., Strabismus Complications from Local Anesthetic Agents. Audio-Digest Ophthalmology 37 (04) (February 15, 1999).
206. Guyton, D.L., Optical Tricks and Traps. Audio-Digest Ophthalmology 37(04) (February 15, 1999).
207. Hunter, D.G., Sandruck, J.C., Patel, S.N., Sau, S., Guyton, D.L. Mathematical Modeling of Birefringence in Retinal Birefringence Scanning. J Opt Soc of America, 16:2103-2111, 1999.
208. Castelbuono, A.C., White, J.E., Guyton, D.L. The Use of (A)symmetry of the Rest Position of the Eyes under General Anesthesia or Sedation-Hypnosis in the Design of Strabismus Surgery: A Favorable Pilot Study in 51 Exotropia Cases. Binocular Vision Strabismus Quarterly, 14:285-290, 1999.
209. Cheeseman E.W. Jr., Guyton, D.L. Vertical Fusional Vergence: The Key to Dissociated Vertical Deviation. Arch Ophthalmol, 117:1188-1191, 1999.
210. Guyton, D.L., Cheeseman, E.W. Jr., Ellis, F.J., Straumann, D. and Zee, D.S. Dissociated Vertical Deviation: Etiology and Mechanism. In Lennerstrand, G. (ed.), Advances in Strabismology, Aeolus Press, 1999, pp 353-356.
211. Murillo-Lopez, F., Maumenee, A.E., and Guyton, D.L., Perception of Purkinje Vessel Shadows and Foveal Granular Pattern as a Measure of Potential Visual Acuity. J Cataract Refract Surg, 26(6):260-265, 2000.

212. Farr, A.K., Guyton, D.L. Strabismus after Retinal Detachment Surgery. Current Opinion in Ophthalmol, 11:207-210, 2000.
213. Salama, H., Farr, A.K., Guyton, D.L. Anesthetic Myotoxicity as a Cause of Restrictive Strabismus after Scleral Buckling Surgery. Retina, 20 (5): 478-482, 2000.
214. Guyton, D.L. Surgery for DVD: New Approaches. In: Proceedings of the Jampolsky Festschrift. San Francisco, The Smith-Kettlewell Eye Research Institute, April, 2000, pp 65-68.
215. Guyton, D.L. Dissociated Vertical Deviation: Etiology, Mechanism, and Associated Phenomena. Costenbader Lecture. J AAPOS 4(3):131-144 June, 2000.
216. Guyton, D.L. Strabismus and Amblyopia: Where Are We Going? (Editorial) Binocular Vis Strabismus Quarterly 15(4):322-323, 2000.
217. Parsa, C.F., Ellis, F.J., and Guyton, D.L., Photographic Reproduction of Out-of-Focus and Distorted Ocular Imagery. Vis Res 41:1489-1499, 2001.
218. Guyton, D.L. Strabismus after Cataract Surgery. Am Orthoptic J 51:29-32, 2001.
219. Guyton, D.L. Surgery for DVD: New Approaches. Am Orthoptic J 51:107-110, 2001.
220. Suh, D.W., Guyton, D.L., and Hunter, D.G. An Adjustable Superior Oblique Tendon Spacer with the Use of Nonabsorbable Suture. J AAPOS 5:164-171, 2001.
221. Phillips, P.H., Guyton, D.L., and Hunter, D.G. Superior Oblique Overaction from Local Anesthesia for Cataract Surgery J AAPOS 5:329-332, 2001.
222. Guyton, D.L., Discussion of Ludwig, I.H. and Brown, M.S., Strabismus Due to Flap Tear of a Rectus Muscle. Tr Am Ophthamol Soc 99:53-63, 2001.
223. Guyton, D.L., Zee, D.S., Further Evidence that DVD Serves to Damp (or Block) Latent Nystagmus. In de Faber J.-T. (ed.) Transactions 27th Meeting European Strabismological Association, June, 2001. Swets & Zeitlinger, Exton, PA, 2001, pp. 101-104.
224. Guyton, D.L., A Testimony for Postoperative Adjustable Sutures in Strabismus Surgery, on the 25th Anniversary of Arthur Jampolsky's Original Description. Binoc Vision Strabismus Quarterly 16(4):241-242, 2001.
225. Mudgil, A.V., Walker, M., Steffen H., Guyton, D.L., and Zee, D.S., Motor Mechanisms of Vertical Fusion in Individuals with Superior Oblique Paresis. J AAPOS 6:145-153, 2002.

226. Bazemore, M.G. and Guyton, D.L. Adjustable Suture Strabismus Surgery. Contemporary Ophthalmology 2(4):1-5, 2003.
227. Hunter D. G., Shah, A.S., Sau, S., Nassif, D., and Guyton, D.L. Automated Detection of Ocular Alignment Using Binocular Retinal Birefringence Scanning. Applied Optics 42(16):3047-53, June, 2003.
230. Bagheri, A., Farahi, A., Guyton, D.L., Astigmatism Induced by Simultaneous Recession of Both Horizontal Rectus Muscles. JAAPOS 7(1):42-46, 2003.
231. Guyton, D.L., Commentary on “Flap Tear of Rectus Muscles: An Underlying Cause of Strabismus after Orbital Trauma.” Ophthalmic Plastic Reconstruc Surg 18(6):450, November, 2002.
232. Feibel, R.M., and Guyton, D.L. Transient Central Retinal Artery Occlusion after Posterior Sub-Tenon’s Anesthesia. J Cataract Refract Surg 29:1821-1824, 2003.
233. Straumann, D., Steffen, H., Landau, K., Bergamin, O., Mudgil, A.V., Walker, M.F., Guyton, D.L., Zee, D.S. Primary position and Listing’s law in acquired and congenital trochlear nerve palsy. Invest Ophthalmol Vis Sci 44:4282-4292 (2003).
234. Guyton, D.L., Accommodative Amplitude Measurements after Surgery for Presbyopia. In: Tsubota, K., Wachler, B.S.B., Azar, D.T., and Koch, D.D. (eds.), Hyperopia and Presbyopia. New York, Marcel Dekker, 2003, pp 287-290.
235. Nassif, D.S., Guyton, D.L., Gramatikov, B., Hunter, D.G. Pediatric Vision Screening Using Binocular Retinal Birefringence Scanning. In Manns F, Soederberg PG, Ho A, eds: Proceedings of SPIE, Vol. 4951: Ophthalmic Technologies XIII. SPIE, Bellingham, WA, 2003, pp 9-20.
236. Guyton, D.L. Dissociated Vertical Deviation – a Nystagmus Blockage Phenomenon. In Balkan, R.J., Ellis, G.S., Jr., Eustis, H.S. (eds.), At the Crossings: Pediatric Ophthalmology and Strabismus. Proceedings of the 52nd Annual Symposium of the New Orleans Academy of Ophthalmology, New Orleans, LA, February 2003. Kugler Publications, The Hague, 2004, pp.111-116.
237. Guyton, D.L. Surgery for Dissociated Vertical Deviation – New Approaches. In Balkan, R.J., Ellis, G.S., Jr., Eustis, H.S. (eds.), At the Crossings: Pediatric Ophthalmology and Strabismus. Proceedings of the 52nd Annual Symposium of the New Orleans Academy of Ophthalmology, New Orleans, LA, February 2003. Kugler Publications, The Hague, 2004, pp.117-120.
238. Guyton, D.L. The Draggled-fovea Diplopia Syndrome. In Balkan, R.J., Ellis, G.S., Jr., Eustis, H.S. (eds.), At the Crossings: Pediatric Ophthalmology and Strabismus. Proceedings of the 52nd Annual Symposium of the New Orleans Academy of

- Ophthalmology, New Orleans, LA, February 2003. Kugler Publications, The Hague, 2004, pp.169-172.
239. Guyton, D.L. (Moderator) with Buckley, E.G., Ellis, F. D., Jampolsky, A., Kushner, B.J., von Noorden, G.K., and Wright, K.W. (Panel). Adjustable Suture Technique and Uses. In Balkan, R.J., Ellis, G.S., Jr., Eustis, H.S. (eds.), At the Crossings: Pediatric Ophthalmology and Strabismus. Proceedings of the 52nd Annual Symposium of the New Orleans Academy of Ophthalmology, New Orleans, LA, February 2003. Kugler Publications, The Hague, 2004, pp.199-207.
 240. Hunter DG, Nusz KJ, Gandhi NK, Quraishi IH, Gramatikov BI, Guyton DL. Automated Detection of Ocular Focus. J Biomed Optics. Sept-Oct 9(5):1103-9 (2004).
 241. Hunter DG, Nassif, DS, Piskun, NV, Winsor R, Gramatikov, BI, Guyton DL. The Pediatric Vision Screener. I. Instrument design and operation. J Biomed Optics Nov-Dec 9(6):1363-1368, 2004.
 242. Nassif DS, Piskun NV, Gramatikov BI, Guyton DL, Hunter DG. Pediatric Vision Screener. II: A pilot study in adults. J Biomed Optics Nov-Dec 9(6) 1369-1374, 2004.
 243. Nusz KJ, Congdon NG, Ho T, Gramatikov BI, Friedman DS, Guyton DL, Hunter DG. Rapid, objective detection of cataract-induced blur using a bull's eye photodetector. Journal of Cataract and Refractive Surgery. 31:763-70 (2005).
 244. Raz, A., Marinoff, G.P., Landzberg, K.S., Guyton, D.L. Substrates of Negative Accommodation. Binocular Vision & Strabismus Quarterly 19(2):71-74, 2004.
 245. Parsa CF, Soltan-Sanjari M, Guyton DL, Non-Absorbable Suture Should Be Used For Adjustable Inferior Rectus Muscle Recessions. In de Faber J.-T. (ed.) Transactions 29th Meeting European Strabismological Association, June, 2004. Swets & Zeitlinger, Exton, PA, 2004, pp. ___.
 246. Yadarola MB, Pearson-Cody M, Guyton DL. Strabismus following posterior segment surgery. In Pieramici DJ, Castellarin A (eds), Anterior Segment Complications of Posterior Segment Surgery. Ophthalmology Clinics of North America 17(4):495-506, December, 2004.
 247. Guyton, D.L.. Dissociated Vertical Deviation: An Acquired Nystagmus Blockage Phenomenon. Am Orthoptic J 2004; 54:77-87.
 248. Goldenberg-Cohen N, Tarczy-Hornoch K, Klink DF, Guyton DL. Post-operative adjustable surgery of the superior oblique tendon. Strabismus 13:5-10, 2005.

249. De Pool ME, Campbell JP, Broome SO, Guyton DL. The “Dragged-Fovea Diplopia Syndrome”: Clinical Characteristics, Diagnosis, and Treatment. Ophthalmology 2005; 112:1455-1462.
250. Wright WW, Gotzler KC, Guyton DL. Esotropia Associated with Early Presbyopia: Caused by Inappropriate Muscle Length Adaptation. J AAPOS 2005; 9:563-566.
251. Bell EE, Bowen TA, Guyton DL. Divergence Insufficiency in Presbyopic Adults from Over-Stimulation of the Near Triad. J AAPOS. Submitted 2005.
252. Gramatikov BI, Zalloum OHY, Wu YK, Hunter DG, Guyton DL. Birefringence-Based Eye Fixation Monitor with No Moving Parts. Journal of Biomedical Optics 2006; 11: 034025.
253. Chan VK, Jun AS, Guyton DL, Tong P. Persistent diplopia after botulinum-toxin-induced protective ptosis. Submitted 2005.
254. Guyton DL. Small-incision muscle hook for the Parks cul-de-sac approach to strabismus surgery. Binocular Vision & Strabismus Quarterly 2005; 20: -----
255. Guyton DL. The 10th Bielschowsky Lecture: Changes in strabismus over time: The role of vergence tonus and muscle length adaptation. Transactions of the 2006 Meeting of the International Strabismological Association, São Paulo, Brazil. Submitted 2006.
256. Guyton DL. The 10th Bielschowsky Lecture: Changes in strabismus over time: The roles of vergence tonus and muscle length adaptation. Binocular Vision & Strabismus Quart 2006; 21:81-92.
257. Christoff A, Guyton DL. The Lancaster red-green test. Amer Orthoptic J 2006; 56: 157-165.
258. Guyton DL. Case Corner: Management of diplopia in the absence of strabismus: Discussion. Amer Orthoptic J 2006; 56: 192-194.
259. Awadein A, Pesheva M, Guyton DL. “Inverted Brown pattern”: A tight inferior oblique muscle masquerading as a superior oblique muscle underaction – clinical characteristics and surgical management. J AAPOS 2006; 10:565-572.
260. Gramatikov BI, Zalloum OHY, Wu YK, Hunter DG, Guyton DL. Directional eye fixation sensor using birefringence-based foveal detection. Applied Optics 2007; 46:1809-1818.
261. Agopov M, Gramatikov BI, Wu YK, Guyton DL. Use of retinal nerve fiber layer birefringence as an addition to absorption in retinal scanning for biometric purposes. Applied Optics: Submitted

262. Guyton DL. The Mildred Weisenfeld Award Lecture: Ocular torsion reveals the mechanisms of cyclovertical strabismus. IOVS: Submitted
263. Steffen H, Straumann DS, Walker MF, Miller NR, Guyton DL, Repka MX, Zee DS. Torsion in patients with superior oblique palsies: dynamic torsion during saccades and changes in Listing's plane. Graefe's Archive of Clinical and Experimental Ophthalmology : in press

U.S. PATENTS (all but # 8 written by Guyton, including drafts of drawings and claims)

1. Guyton, D., Optical System for Imaging Scheiner Apertures in an Optometer, U.S. Patent No. 3,634,003, January 11, 1972.
2. Guyton, D., Cylindrical Lens System for Simultaneous Bimeridional Measurement in a Lens Measuring Instrument, U.S. Patent No. 3,664,631, May 23, 1972.
3. Guyton, D., Optical System for Varying the Power Range and Scale Spacing in a Lens Measuring Instrument, U.S. Patent No. 3,669,529, June 13, 1972.
4. Guyton, D., Lens for Target Image Displacement in a Lens Measuring Instrument, U.S. Patent No. 3,669,530, June 13, 1972.
5. Guyton, D., Method and Apparatus for Locating a Principal Meridian of an Astigmatic Optical System, U.S. Patent No. 3,785,723, January 15, 1974.
6. Guyton, D., Zonal Focus Method for Determining the Amount of Astigmatic Correction for an Optical System, U.S. Patent No. 3,841,760, October 15, 1974.
7. Guyton, D., Method for Determining the Refractive Correction for an Eye, U.S. Patent No. 4,105,303, August 8, 1978.
8. Waltuck, M. and Guyton, D., Control Means for Optical Instrumentation, U.S. Patent No. 4,367,015, January 4, 1983.
9. Guyton, D., Ophthalmic Test Apparatus Having Magnification Compensation, U.S. Patent No. 4,435,052, March 6, 1984.
10. Guyton, D., Apparatus for Determination of Potential Visual Acuity Utilizing a Slit Lamp Microscope, U.S. Patent No. 4,552,440, November 12, 1985.
11. Guyton, D.L., Hunter, D.G., Sandruck, J.C., Patel, S.N., Fry, R.L., Eye Fixation Monitor and Tracker. U.S. Patent No. 6,027,216, February 22, 2000.