

Richard A. Lewis, M.D.

EDUCATION:

1970 - 1973 U. California, Berkeley, BA, Political Science
1974 - 1978 Northwestern U. Medical School, Chicago, IL

PROFESSIONAL TRAINING and RESPONSIBILITIES

1978 - 1979 Northwestern U.(Evanston Hospital) Internship
1979 - 1982 U. California, Davis Ophthalmology Residency
1982 - 1983 U. Iowa, Iowa City IA Fellow in Glaucoma
1983 - 1988 U. California, Davis, Director Glaucoma
1988 - Present Consultant in Glaucoma, Private Practice;
1992 - 1996 Chief of Ophthalmology, Mercy Hospital.
1995 - 2003 Co-founder and Director, Focal Point Laser Vision
2003 - 2011 Co-founder and Director, Capital City Surgery Center

EDITORIAL POSITIONS:

1990 - 2000 Editorial Board, Focus on Glaucoma
1996 - Present Glaucoma Section Editor, Ocular Surgery News
1997 - 2004 Section Editor, EyeNet (AAO)
2002 - Present Editorial Board, Journal of Glaucoma
2004 - Present Editorial Board, Glaucoma Today
2006 - 2010 **Chief Medical Editor**, Glaucoma Today
2010 – Present Editor Emeritus, Glaucoma Today
2006 - Present Editorial Board, Video Journal of Ophthalmology

ACADEMIC/PROFESSIONAL ORGANIZATIONS:

1990 - 1994 Instruction Advisory Committee – Am Acad Ophth
1995 - 1997 Assistant Secretary, Scientific Advisory Panel for
Ophthalmology (California Medical Association)
1999 - 2010 Chair, Subspecialty Day Committee – Am Acad Ophth
1995 - 2006 Executive Committee, American Glaucoma Society
2000 - 2002 **President**, American Glaucoma Society
2000 - 2008 Glaucoma Clinical Committee, ASCRS
2002 – 2007 Steering Committee – Assoc Inter Glau Societies
2003 - 2005 Glaucoma Liaison – Am Acad Ophth.
2011 – Present Executive Committee, ASCRS

INDUSTRY EXPERIENCE:

1983 - Present **Clinical Investigator:** Allergan, Alcon, AMO, Insite, Merck, Novartis,
Pharmacia, iScience Interventional, GMP, Glaukos, ISTA, AVS, Pfizer, Santen, Forsight, QLT
1983 - Present **Consultant (active):** Alcon, Allergan, Altheos, Aquesys, CoDa, Dow,
iScience Interventional, Ivantis, Pfizer QLT, Transcend, Zeiss
Consultant (inactive): Clarity, ISTA
1983 - Present **Formulary presentations** – MediCal, State of California
1994 - Present **Medical Monitor:** Santen, Inc.; Napa, CA
1999 - 2010 **Medical Monitor:** AVS; Santa Barbara, CA
2006 - 2009 **Medical Monitor:** iScience Interventional, Menlo Park, CA
2007 - 2008 **Medical Monitor:** Aqumen
2010 – Present **Medical Monitor:** Aquesys

LICENSURE:

1979 California Medical License No. G4056I
1979 Diplomat, National Board of Medical Examiners
1982 Iowa Medical License

1983 Diplomat, American Board of Ophthalmology
1993 Nevada License #6934

HONORS & AWARDS:

1982 - 1983 Heed Fellowship
1990 Honor Award, American Acad of Ophthalmology
1994 - 1998, 2006, 2008, 2010 Listed in publication, Best Doctors in America
1997 Gold Medal (Tennis), Maccabiah Games, Israel
2001 Senior Honor Award, American Acad Ophthalmology
2000 - 2002 **President, American Glaucoma Society**
2010 Secretariat Award, American Acad Ophthalmology

NAMED LECTURESHIPS:

2007 Wisconsin Medical College
2008 Leopold Lecturer for Allergan
2008 U Florida, Gainesville
2009 Stephen Obstbaum Lecturer (ASCRS)
2011 Phelps Lecturer, U Iowa

HUMANTARIAN MISSIONS:

China, Mexico, Jamaica, Kazakhstan, Saipan, Malaysia, Thailand, Libya, Kenya (through Project ORBIS, 1986-2009)

PUBLICATIONS:

1. 1976 Lewis RA and Agrawal B: Spinal cord compression with neurofibromatosis. Illinois Medical Journal, April.
2. 1982 Lewis RA, Keltner JL, and Cobb CA: Corneal anesthesia after percutaneous radiofrequency trigeminal rhizotomy: A retrospective study. Archives of Ophthalmology; 100:301.
3. 1982 Lewis RA, Cobb CA, and Keltner JL: Corneal sensitivity after percutaneous radio frequency trigeminal rhizotomy: A quantitative study. Annals of Ophthalmology; 14:766.
4. 1983 Lewis RA, Hayreh SS, and Phelps CD: Optic disc and visual field correlation in primary open-angle glaucoma and low-tension glaucoma. American Journal of Ophthalmology; 96: 148-152.
5. 1984 Lewis RA: Steroid-induced glaucoma. Western Journal of Medicine; 140:268.
6. 1984 Lewis RA and Phelps CD: Trabeculectomy vs thermosclerostomy: A five year followup. Archives of Ophthalmology; 102:533.
7. 1984 Lewis RA, Tse DT, Phelps CD, and Weingeist TA: Neovascular glaucoma after photoradiation therapy with hematoporphyrin derivative. Archives of Ophthalmology; 102:839.
8. 1984 Lewis RA and Phelps CD: Medical therapy of glaucoma. In: Duane T, (ed.): Clinical Ophthalmology. Philadelphia: Harper & Row. Rev.1987
9. 1984 Lewis RA and Phelps CD: A comparison of visual field loss in primary open-angle glaucoma and the secondary glaucoma. Ophthalmologica; 189:41-48.
10. 1984 Lewis RA, Schoenwald RS, Ellen MD, Barfknecht C, and Phelps CD: Ethoxzolamide analog gel: A topical carbonic anhydrase inhibitor. Archives of Ophthalmology; 102:1821-1824.
11. 1985 Lewis RA: Ocular Emergencies. Modern Medicine (March) pg. 156-164.

12. 1985 Keltner JL, Johnson CA, and Lewis RA: Quantitative office perimetry. *Ophthalmology*; 92:862-71.
13. 1985 Lewis RA and Johnson CA: Field loss and psychophysical abnormalities in early glaucoma. *Survey of Ophthalmology*; 30: 110.
14. 1985 Lewis RA, Johnson CA, and Keltner JL: Preliminary clinical trials with the Humphrey Field Analyzer. In: Heijl A and Greve EL(ed.), *Proceedings of the Sixth International Visual Field Symposium*. Dordrecht, The Netherlands: W. Junk.
15. 1985 Lewis RA, Johnson CA and Keltner JL: A clinicians guide to automated perimetry. *Transactions of Pacific Coast OtoOphthalmologic Society*.
16. 1985 Lewis RA, Keltner JL and Johnson CA: The variables of automated perimetry. *Transactions of Pacific Coast Oto-Ophthalmologic Society*.
17. 1986 Wandel T, Charop A, Lewis R et al: Glaucoma treatment with once daily levobunolol. *American Journal of Ophthalmology* 101:298-304.
18. 1986 Lewis RA, Schoenwald RD, Barfknecht C and Phelps CD: Aminozolamide gel: A trial of a topical carbonic anhydrase inhibitor in ocular hypertension. *Archives of Ophthalmology*; 104:842-844.
19. 1986 Lewis RA, Johnson CA, Keltner JL and Labermeier PK: Variability of quantitative automated perimetry in normal observers. *Ophthalmology*; 93:878-881.
20. 1986 Shaw B and Lewis R: Intraocular pressure elevation after pupillary dilation in patients with primary open angle glaucoma. *Archives of Ophthalmology*; 104:1185-1188.
21. 1986 Mannis MJ and Lewis RA: Glaucoma in corneal disorders. In: Weinstein G.(ed.): *Open angle glaucoma*. New York: Churchill Livingstone.
22. 1987 Lewis RA and Landers MB: Retrobulbar anesthesia in angle closure glaucoma. *Ophthalmic Surgery*; 18:523-524.
23. 1987 Panel discussion on topical beta-blockers - edited by E. M. Van Buskirk, *Ophthalmic Forum*.
24. 1987 Johnson CA, Keltner JL, and Lewis RA: Automated kinetic perimetry: An efficient method of evaluating peripheral visual field loss. *Applied Optics*; 26:1409-1414.
25. 1987 Johnson CA and Lewis RA: Staircase scoring procedures for automated perimetry - In: Greve, E. (ed): *Proceedings of the Seventh International Visual Field Symposium*. Dordrecht, The Netherlands: W. Junk.
26. 1987 Johnson CA, Keltner JL, and Lewis RA: JAWS (Joint Automated Weighting Statistic) A method of converting results between automated perimeters In: Greve, E. (ed): *Proceedings of the Seventh International Visual Field Symposium*. Dordrecht, The Netherlands: W. Junk.
27. 1988 Ruben J, Lewis RA, Johnson CA, and Adams C: Effect of applanation tonometry on automated perimetry. *Ophthalmology*; 95:267-270.
28. 1988 Mannis MJ, Sweet E, Landers MB, and Lewis RA: Uses of thrombin in ocular surgery: Its effect on the corneal endothelium. *Archives of Ophthalmology*; 106:251-253.
29. 1988 Johnson CA, Adams C, Lewis RA, and Keltner JL: Fatigue effects of automated perimetry.

Applied Optics; 27:1030-1037.

30. 1988 Kalina PH, Shatler DJ, Lewis RA, Kullerstand CJ, Brubaker RC: 6-Amino-2-Benzothiazolasulfonamide: The effect of a topical carbonic anhydrase inhibitor on aqueous humor formation in the normal human eye. *Ophthalmology*; 95:772-777.
31. 1988 Mannis MJ, Sweet E, and Lewis RA: Effect of 5-Fluorouracil on the corneal endothelium. *Archives of Ophthalmology*; 106:816-817.
32. 1989 Rakofsky SI, Melamed S, Cohen JS, Slight JR, Spaeth G, Lewis RA, Zbrowski-Gutman L, Eto C, Lue JC, Novack GD: A comparison of the twice daily levobunolol treatment. *Ophthalmology*; 96: 8-11, 1989.
33. 1988 Lewis RA, Schoenwald RD, and Barfknecht L: Aminozolamide: The role of the vehicle in a topical carbonic anhydrase inhibitor. *Journal of Ocular Pharmacology*; 4:215-219, 1988.
34. 1989 Lewis RA and Deutch D.: Effect of coronary artery bypass surgery on intraocular pressure. *American Journal of Ophthalmology*; 107:18-22, 1989.
35. 1988 Johnson CA, Adams AJ, Lewis RA: Automated perimetry of short-wavelength mechanisms in glaucoma and ocular hypertension. In *Proceedings of the VIII International Perimetric Society Meeting*, edited by A. Heijl. Berkeley: Kugler and Ghedini.
36. 1989 Lewis RA, Vijayan N, Watson C, Keltner JL, and Johnson CA: Visual field loss in migraine. *Ophthalmology*. 96:321-326, 1989.
37. 1989 Johnson CA, Adams AJ, and Lewis RA: Evidence for a neural basis of age-related visual field loss in normal observers. *Investigative Ophthalmology*. 30:148-156, 1989.
38. 1989 Serdahl C, Lewis RA, Galustian J: Effect of apraclonidine on conjunctival oxygen. *Arch Ophthalmol*. 107:1777-1779.
39. 1991 Lewis RA: Postoperative Care; Full Thickness Filtration Surgery; and Laser Iridotomy; chapters in Mills R and Weinreb R (eds.): *Glaucoma Surgical Techniques*. San Francisco: American Academy of Ophthalmology.
40. 1991 Adams AJ, Johnson CA, Lewis RA: S cone pathway sensitivity loss in ocular hypertension and early glaucoma has nerve fiber bundle pattern; chapter 65 in Drum B, Moreland JD and Serra A (eds): *Colour Vision Deficiencies X*. Dordrecht, Netherlands: Kluwer Academic Publishers.
41. 1991 Wilkerson M, Lewis RA, Shields MB: Follicular conjunctivitis associated with Apraclonidine. *Am J Ophthalmol* 111:105-106.
42. 1991 Stewart WC, Shields MB, Allen RC, Lewis RA, Cohen JS, et al: A 3 month comparison of 1% and 2% Carteolol and 0.5% Timolol in open-angle glaucoma. *Graefe's Arch Clin Exp Ophthalmol* 229:258-261.
43. 1991 Kolker AC, Alward WLM, Berlin MS, Griffin MA, Heuer DK, Kass MA, Lewis RA, Strandberg LR: Impact of compliance on glaucoma therapy in the elderly: an update on methods and treatment. Roundtable discussion published by Allergan, June, 1991.
44. 1992 Lewis RA: Discussion on paper, Malignant glaucoma after laser iridotomy by Cashwell LF and Martin TJ. *Ophthalmol* 99:651-659.

45. 1993 Barneby HS, Robin AL, Zimmerman TJ, Morrison JC, Hersh SB, Lewis RA, Coleman AL, Cinotti DJ, Walt J, Chen KS, Kelley EP: The efficacy of brimonidine in decreasing elevations in intraocular pressure after laser trabeculoplasty. *Ophthalmol* 100:1083-1088.
46. 1992 Lewis RA: Discussion on paper, 2.5 vs 3.5 minute use of mitomycin in glaucoma filtering surgery *Ophthalmol*
47. 1992 Lewis RA, Johnson CA, Adams AJ: Automated static visual field testing and perimetry of short-wavelength-sensitive (SWS) mechanisms in Patients with asymmetric intraocular pressures. *Graefe's Archive Ophthalmol*
48. 1995 Brimonidine-ALT Study Group: Intraocular pressure spikes following argon laser trabeculoplasty. *Ophthalmic Surgery and Lasers* 26:404-409.
49. 1996 Stahlman E, Tipping R, Vogel R and the Dorzolamide Dose Response Study Group. *Am J Ophthalmol* 122:183-194.
50. 1998 Stoilov I, Akarsu N, Ahozie I, et al: Sequence analysis and homology modeling suggest that primary congenital glaucoma on 2p21 results from mutations disrupting either the hinge region or the conserved core structures of cytochrome P4501B1. *Am J Hum Genet* 62: 573-584.
51. 1998 Clineschmidt C, Williams RD, Snyder E, Adamsons I, and the Dorzolamide-Timolol Combination Study Group: A randomized trial comparing the dorzolamide combination to monotherapy with timolol or dorzolamide in patients inadequately controlled on timolol alone. *Ophthalmol* 105:1952-1959..
52. 1998 Lewis RA: Postoperative Care; Laser Suture Lysis and Releasable Sutures; Transscleral Laser Cyclophotocoagulation; chapters in Mills R and Weinreb R (eds.): *Glaucoma Surgical Techniques*. San Francisco: American Academy of Ophthalmology.
53. 1998 Adamsons I, Clineschmidt C, Polis A, Taylor J, Shedden A, Laibovitz R, and the Additivity Study Group: The efficacy and safety of dorzolamide as adjunctive therapy to timolol maleate gellan solution in patients with elevated intraocular pressure. *J Glaucoma* 7:253-260.
54. 1998 Strohmaier BS, Snyder E, DuBiner H, Adamsons I, and the Dorzolamide-Timolol Study Group: The Efficacy and safety of the dorzolamide-timolol combination versus the concomitant administration of its components. *Ophthalmol* 105:1936-1944.
55. 1998 Boyle JE, Ghosh K, Gieser DK, Adamsons IA and the Dorzolamide-Timolol Study Group: A randomized trial comparing the dorzolamide-timolol combination given twice daily to monotherapy with timolol and dorzolamide. *Ophthalmol* 105:1945-1951.
56. 1998 LeBlanc RP and the Brimonidine Study Group: Twelve month results of an ongoing randomized trial comparing brimonidine tartrate 0.2% and timolol 0.5% given twice daily in patients with glaucoma or ocular hypertension. *Ophthalmol* 105:1960-1967.
57. 2000 Lewis, RA (Guest editorial): Refractive surgery and the glaucoma patient, customized corneas under pressure. *Ophthalmol* 107:1621-22.
58. 2002 Higginbotham EJ and Bimatoprost Study Group: One-year, randomized study comparing bimatoprost and timolol in glaucoma and ocular hypertension. *Arch Ophthalmol* 120:1286-1293.
59. 2003 Coleman AL, Lumigan/Cosopt Study Group: A 3 month randomized controlled trial of bimatoprost (Lumigan) versus combined timolol and dorzolamide (Cosopt) in patients with glaucoma or ocular hypertension. *Ophthalmol* 110:2362-2368.

60. 2004 Lewis, RA: Fixed combination glaucoma drops. *Glaucoma Today*.
61. 2005 Schuman J, Katz GJ, Lewis RA, Henry JC, Mallick S, et al: Efficacy and Safety of a fixed combination of Travoprost 0.004%/Timolol 0.5% ophthalmic solution once daily for open angle glaucoma or ocular hypertension. *Am J Ophthalmol* 140:242-250.
62. 2006 Lewis RA, Katz G, Weiss MJ: Travoprost 0.004% With and Without Benzalkonium Chloride: A Comparison of Safety and Efficacy. *J Glaucoma* 16:98-103.
63. 2006-10 Editorials (as Chief Medical Editor) – *Glaucoma Today*
64. 2007 Lewis, RA, van Wolff K, Tetz M, et al: Canaloplasty: Circumferential viscodilation and tensioning of Schlemm’s canal using a flexible microcatheter for the treatment of open angle glaucoma in adults: interim clinical study analysis. *J Cataract Refract Surg* 33:1217-1226.
65. 2009 Lewis RA, van Wolff K, Tetz M, et al: Canaloplasty: Circumferential viscodilation and tensioning of Schlemm’s canal using a flexible microcatheter for the treatment of open angle glaucoma in adults: two year interim clinical study results. *J Cataract Refract Surg* 35:814-824.
66. 2010 Lewis RA: The safety and efficacy of Bimatoprost/Timolol fixed combination: A one-year double-masked, randomized parallel comparison to its individual components in patients with glaucoma or ocular hypertension. *J Glaucoma*. 19:424-426.
67. 2011 Lewis RA, van Wolff K, Tetz M, et al: Canaloplasty: Three-year results of circumferential viscodilation and tensioning of Schlemm canal using a microcatheter to treat open angle glaucoma. *J Cataract Refract Surg* 37 : 682–690 .

VIDEO PRODUCTIONS:

1. 1988 Tonometry - Sponsored, produced and distributed by American Academy of Ophthalmology
2. 2006 Canaloplasty – Video Journal of Ophthalmology
3. 2008 Punctal Plug Drug Delivery for Glaucoma – Video Journal of Ophthalmology

BOOK CHAPTERS:

1. 1984 Lewis RA and Phelps CD: Medical therapy of glaucoma. In: Duane T, (ed.): *Clinical Ophthalmology*. Philadelphia: Harper & Row. Rev.1987
2. 1991 Lewis RA: Postoperative Care; Full Thickness Filtration Surgery; and Laser Iridotomy; chapters in Mills R and Weinreb R (eds.): *Glaucoma Surgical Techniques*. San Francisco: American Academy of Ophthalmology.
3. 1998 Lewis RA: Postoperative Care; Laser Suture Lysis and Releasable Sutures; Transscleral Laser Cyclophotocoagulation; chapters in Mills R and Weinreb R (eds.): *Glaucoma Surgical Techniques*. San Francisco: American Academy of Ophthalmology.
4. 2006 Lewis RA (editor – David Chang): How to manage IOP after cataract surgery (book chapter), *Curbside Consultation in Cataract: 49 Questions*; Slack.
5. 2008 Lewis RA, Nichamin S, Holland E, Solomon K (editor – David Chang): When do I use LRI’s v Toric IOL’s? (book chapter), *Mastering Refractive IOL’s: The Art and the Science*, Slack
6. 2008 Lewis RA (editors – Heuer D, Gedde S, Lewis R); Is there a role for nonpenetrating surgery? Chapter 47, *Curbside Consultation in Glaucoma*, Slack

7. 2009 Lewis RA (editor – Sharaway T, Sherwood M, Hitchings R, Crowston J): Spotlight: Nonpenetrating surgery: evolution in technique. Glaucoma: Medical Diagnosis and Therapy, Saunders.
8. 2009 Lewis RA (editor Caprioli J, Coleman A, Giaconi J, Law S): Managing complications: hypotony (ch 59) Frequently asked questions in glaucoma, Springer Verlag
9. 2010 Lewis RA (editor Shields B, Spaeth G): The American Glaucoma Society: Its First 25 years, Kugler Publications.
10. 2011 Lewis RA (editor R Feldman): Operative Complications of Glaucoma, Oxford University Press, in press
11. 2011 Lewis RA (editor M Kahook): Essentials of Glaucoma Surgery, in press
12. 2011 Lewis RA (editor D Rhee): Color Atlas and Synopsis of Clinical Ophthalmology, Lippincott Williams and Wilkins.

BOOKS:

1. 2008 Heuer DK, Gedde SJ, Lewis RA: Curbside Consultation in Glaucoma, SLACK