

## CURRICULUM VITAE

### **Malik Y. Kahook, M.D.**

Department of Ophthalmology  
University of Colorado School of Medicine  
Rocky Mountain Lions Eye Institute  
1675 Aurora Ct.  
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### **PREDOCTORAL EDUCATION:**

Pre-medical: University of Akron, Akron, OH (1992-1997), Honors College, B.S. Nursing  
Medical: Northeastern Ohio Universities College of Medicine (NEOUCOM), Rootstown, OH (1997-2001). Graduated 1<sup>st</sup>/100.

### **POSTDOCTORAL TRAINING:**

Internship: Aultman Hospital, Canton, OH (2001-2002)  
Residency: University of Colorado, Rocky Mountain Lions Eye Institute, Department of Ophthalmology, Denver, CO (2002-2005), Chief Resident (2004-2005)  
Fellowship: University of Pittsburgh Medical Center, Glaucoma, Pittsburgh, PA (2005-2006)  
Glaucoma Subspecialty. Robert J. Noecker, MD, Joel S. Schuman, MD

### **SPECIALTY BOARD CERTIFICATION:**

2007 American Board of Ophthalmology

### **MEDICAL SCHOOL APPOINTMENTS:**

2005 – 2006 Clinical Instructor of Ophthalmology, University of Pittsburgh, Pittsburgh, PA  
2006 – 2009 Assistant Professor of Ophthalmology, University of Colorado, Denver, CO  
2009 – Associate Professor of Ophthalmology, University of Colorado, Denver, CO

### **ADMINISTRATIVE APPOINTMENTS/DEPARTMENT OF OPHTHALMOLOGY:**

2006 - Director, Clinical Research  
2006 - Member, Technology Advancement Committee  
2006- Chair, Grand Rounds Committee  
2006- Residency Selection Committee  
2006- Clinical Faculty Promotions Committee  
2007- Glaucoma Basic Science Series Course Director  
2008 Co-Director of Primary Care Physician Ophthalmology Symposium  
2009- Director, Glaucoma Service

### **FEDERAL APPOINTMENTS**

2009- Food and Drug Administration (FDA) Ophthalmic Devices Advisory Panel

## **AMERICAN ACADEMY OF OPHTHALMOLOGY (AAO) APPOINTMENTS**

2010- AAO Annual Meeting Program Committee - Glaucoma

### **HOSPITAL STAFF MEMBERSHIPS:**

2006 - University of Colorado Hospital, Denver, CO  
2006 - Denver Health Medical Center, Denver, CO  
2006 - Denver Veterans Affairs Medical Center, Denver, CO  
2006 - The Children's Hospital, Denver, CO

### **HONORS, AWARDS & RECOGNITION:**

2004-2005 Elected Chief Resident, Dept. of Ophthalmology UCHSC  
2004-2005 Education Committee, Dept. of Ophthalmology UCHSC  
2004-2005 Residency Selection Committee, Dept. of Ophthalmology UCHSC  
2002-2005 Medical Correspondent, Spirit Magazine  
2005-2006 Glaucoma Fellowship Selection Committee, UPMC Eye Center  
2005-2006 Electronic Medical Records Content Group, UPMC Eye Center  
April 2006 American Glaucoma Society Ambassador: American Academy of Ophthalmology midyear forum, Washington DC  
March 2006 American Society of Cataract and Refractive Surgery "Poster of Interest":  
**Kahook MY, Schuman JS, Noecker RJ.** Intraocular pressure comparison in post endoscopic cyclophotocoagulation patients: Iris hooks vs. viscoelastic.  
October 2006 American Academy of Ophthalmology News and Views "Location of glaucoma drainage devices relative to the optic nerve"  
April 2007 American Academy of Ophthalmology News and Views "Comparison of acute structural and histopathological changes in human autopsy eyes after endoscopic cyclophotocoagulation and trans-scleral cyclophotocoagulation"  
2006 American Glaucoma Society Patient Adherence Research Award  
2007 American Glaucoma Society Clinician Scientist Research Award  
2009 Speaker of the Day Award. Royal Hawaiian Eye Meeting.  
2009 Guest Editor. Academy Live - Academy Communication. American Academy of Ophthalmology Annual Meeting 2009. San Francisco, CA October 27<sup>th</sup>, 2009.

### **PROFESSIONAL MEMBERSHIPS:**

Colorado Medical Association  
American Academy of Ophthalmology  
American Society of Cataract and Refractive Surgery  
Association for Research in Vision and Ophthalmology  
Chandler and Grant Society

### **LICENSES:**

2005 -2006 Pennsylvania  
2006 - Colorado

### **EDITORIAL SERVICES TO SCHOLARLY PUBLICATIONS**

1. Ophthalmology (American Academy of Ophthalmology)

2. Archives of Ophthalmology
3. American Journal of Ophthalmology
4. European Journal of Ophthalmology
5. Ophthalmic Surgery Lasers & Imaging
6. Eye
7. The Medical Letter
8. Future Drugs
9. Comprehensive Ophthalmology Update
10. Indian Journal of Ophthalmology
11. Journal of Glaucoma
12. Journal of Ocular Pharmacology and Therapeutics
13. British Journal of Ophthalmology
14. Pharmaceutical Medicine
15. Clinical Ophthalmology
16. Investigative Ophthalmology and Visual Science
17. Current Eye Research

#### **EDITORIAL BOARD MEMBER**

- 2006-2009 Glaucoma Today. Section editor: “Residents and Fellows Q&A”
- 2007- Ophthalmic Surgery Lasers and Imaging. (Editor: Techniques Section)
- 2008- Ophthalmic Hyperguides. Section editor: Glaucoma.
- 2009- Middle East African Journal of Ophthalmology. International Advisory Board Member.

#### **RESEARCH INTERESTS**

- The use of lasers in the treatment of glaucoma
- The effect of systemic diseases on the retina nerve fiber layer
- The use of novel therapeutic agents to modify the post-operative healing response in glaucoma filtration surgery
- Clinical pharmacology
- Diagnostic imaging
- New devices for treating glaucoma

#### **RESEARCH GRANT SUPPORT**

- “Incidence of Nerve Fiber Layer Abnormalities in Alzheimer’s Patients & Relationship to Disease Severity”. Co-investigator (2005-2006). \$150,000
- Effects of Glaucoma Educators on Adherence to Prescribed Therapeutic Regimens in Glaucoma Patients” American Glaucoma Society Patient Adherence Research Award. Principal Investigator (2006-2009). \$50,000
- “The Effect of Glaucoma Medications on the Ocular Surface” Principal Investigator (2006-2007). \$20,000

- The Effect of a Non-Selective Endothelin Antagonist on Intraocular Pressure and Anterior Chamber Depth in Patients with Pulmonary Hypertension”. American Glaucoma Society Clinician Scientist Grant. Principle Investigator. (2007-2009) \$40,000
- Optic Nerve Head Imaging: A tutorial. Principle Investigator (2007-2008) \$15,000
- Anti-angiogenic medications for glaucoma surgery. Principle Investigator (2007-) \$251,000
- Drainage Angle Remodeling Surgery. Principle Investigator (2008-2009) \$90,000
- Effects of ophthalmic medications and preservatives on ocular surface cells. Principle Investigator (2008-2009) \$50,000
- The effect of endothelin antagonists on the intraocular pressure of rats. Principle Investigator (2009-2010) \$83,700
- The effect of topical medications and preservatives on various ocular cells in vitro. Principle Investigator (2009-2011) \$225,000
- Noninvasive surgical techniques for glaucoma treatment. Principle Investigator (2009-2010) \$250,000

## **CLINICAL TRIALS**

- Advanced Imaging for Glaucoma. (Sub-I 2005-2006)
- SOLX Gold Shunt Versus Control Implant: Randomized Trial for Refractory Glaucoma (Sub-I 2005-2006)
- Use of Steroids versus Prednisolone Acetate Drops for Post-SLT Patients (PI 2007-)
- CE-Trabeculectomy versus CE-ECP for Glaucoma Management (PI 2007-)
- Sutureless Glaucoma Drainage Device Implantation (PI 2007-)
- Human tear film analysis (PI 2007-)
- A Phase I, Open-Label, Multi-center Study to Assess the Safety, Tolerability and Pharmacokinetics of a Solid Oral Dosage Formulation (capsule) of AZD6244 in Patients with Advanced Solid Malignancies. (Sub-I 2007-)
- Ocular surface disease and glaucoma therapy (PI 2007-)
- Anti-VEGF Agent for Glaucoma Filtrations Surgery (PI 2007-)

-Conjunctival Analysis in Patients on Topical Therapy for Glaucoma (PI 2008-2009)

-Ocular Surface Disease Analysis in Patients on Topical Glaucoma Therapy (PI 2008-)

### **MENTORING ACTIVITIES (Residents & Medical Students):**

2006-2007 Ginny Kullman, MD: Nutrition and the Eye

2006-2007 Suzanne Flakenberry, MD: Endocyclophotocoagulation

2007-2008 G. Ryan Berger, MD: Muslim Prayer and Intraocular Pressure

2007-2008 Andrew Dixon, MD: Corneal Hysteresis and Dry Eye Syndrome

2007-2008 Andrew Hendrick, MD: ExPRESS Glaucoma Drainage Device and Tisseel Glue

2007-2008 Michael Horsley, MD: AS-OCT and Bleb Morphology

2007-2008 Kemeni Tenku: Heidelberg Retinal Tomography and Diabetic Macular Edema

2007-2008 Michael Horsley, MD: Ocular Surface Disease and Glaucoma

2007-2009 Christopher Russo, MD: Pulmonary Hypertension and Glaucoma

2008-2009 Leonard Seibold, MD: ExPRESS Glaucoma Drainage Device and MRI

2008-2009 Emily McCourt, MD: Subfoveal Choroidal Thickness and Glaucoma

2008-2009 Leonard Seibold, MD: Spectral Optical Coherence Tomography

2008-2009 Travis Good: Avastin and IOP Fluctuations

2008-2009 Travis Good: Endothelin and Glaucoma

2008-2009 Michael Horsley, MD: Avastin and Glaucoma Surgery

2009-2010 Ksenia Stafeeva, MD: Neuroprotection in a Rat Model of Glaucoma

2009-2010 Matthew Sniegowski, MD: Anti-VEGF Agents Causing Trabeculitis

### **PEER REVIEWED PUBLICATIONS (Medline Indexed):**

1. **Kahook MY**, May M. Traumatic total iridectomy post clear corneal cataract extraction. *J Cataract Refract Surg.* August 2005;31(8):1659-60.
2. **Kahook MY**, Thomas J, Naresh N, Bateman JB. Glycosylation type Ic disorder: idiopathic intracranial hypertension and retinal degeneration. *Br J Ophthalmol.* 2006 Jan;90(1):115-6.
3. Durairaj VD, Hink EM, **Kahook MY**, Hawes MJ, Paniker PU, Esmaeli B. Mucinous eccrine adenocarcinoma of the periocular region. *Ophthalm Plast Reconstr Surg.* 2006 Jan-Feb;22(1):30-5.
4. Mandava N, **Kahook MY**, Mackenzie DL, Olson JL. Anterior scleral buckling procedure for cyclodialysis cleft with chronic hypotony. *Ophthalmic Surg Lasers Imaging.* 2006 Mar-Apr;37(2):151-3.
5. **Kahook MY**, Schuman JS, Noecker RJ. Needle bleb revision of encapsulated filtering bleb with bevacizumab. *Ophthalmic Surg Lasers Imaging.* 2006 Mar-Apr;37(2):148-50.
6. **Kahook MY**, Schuman JS, Noecker RJ. Intravitreal bevacizumab in a patient with neovascular glaucoma. *Ophthalmic Surg Lasers Imaging.* 2006 Mar-Apr;37(2):144-6.
7. **Kahook MY**, Pantcheva MB, Schuman JS, Noecker RJ. Location of glaucoma drainage devices relative to the optic nerve. *Br J Ophthalmol.* 2006 Aug;90(8):1010-3.

8. **Kahook MY**, Schuman JS, Noecker RJ. Trypan blue-assisted neodymium:YAG laser treatment for overfiltering bleb. *J Cataract Refract Surg.* 2006 Jul;32(7):1089-90.
9. **Kahook MY**, Noecker RJ. Fibrin Glue Assisted Glaucoma Drainage Device Surgery. *Br J Ophthalmol.* 2006 Dec;90(12):1486-9. Epub 2006 Aug 17.
10. Pantcheva MB, **Kahook MY**, Schuman JS, Noecker RJ. Comparison of acute structural and histopathological changes in human autopsy eyes after endoscopic cyclophotocoagulation and transscleral cyclophotocoagulation. *Br J Ophthalmol.* 2007 Feb;91(2):248-52. Epub 2006 Sep 20.
11. **Kahook MY**, Awadallah NS, Noecker RJ. Travoprost 0.004%/timolol 0.5% fixed combination. *Drugs Today (Barc).* 2007 Feb;43(2):77-83.
12. **Kahook MY**, Noecker RJ. Evaluation of adherence to morning versus evening glaucoma medication dosing regimens. *Clin Ophthalmol.* 2007 Mar;1(1):79-83.
13. **Kahook MY**. Developments in dosing aids and adherence devices for glaucoma therapy: Current and future perspectives. *Expert Rev Med Devices.* 2007 Mar;4(2):261-6.
14. Cronin T, **Kahook MY**, Lathrop KL, Noecker RJ. Accuracy and performance of a commercially available Dosing Aid. *Br J Ophthalmol.* 2007 Apr;91(4):497-9.
15. **Kahook MY**, Noecker RJ, Ishikawa H, Wollstein G, Duker JS, Fujimoto JG, Schuman JS. Peripapillary schisis in glaucoma patients with narrow angles and increased intraocular pressure. *Am J Ophthalmol.* 2007 Apr;143(4):697-9.
16. **Kahook MY**, Schuman JS, Noecker RJ. Endoscopic cyclophotocoagulation using iris hooks versus viscoelastic devices. *Ophthalmic Surg Lasers Imaging.* 2007 Mar-Apr;38(2):170-2.
17. Pantcheva M, **Kahook MY**, Schuman JS, Rubin MW, Noecker RJ. Comparison of acute structural and histopathological changes of the porcine ciliary processes after endoscopic cyclophotocoagulation and transscleral cyclophotocoagulation. *Clin Experiment Ophthalmol.* 2007 Apr;35(3):270-4.
18. **Kahook MY**, Noecker RJ. One-site versus two-site endocyclophotocoagulation. *J Glaucoma.* 2007 Sep;16(6):527-30.
19. Yu JY, **Kahook MY**, Lathrop KL, Noecker RJ. The effect of probe placement and type of viscoelastic material on endoscopic cyclophotocoagulation laser energy transmission. *Ophthalmic Surg Lasers Imaging.* 2008 Mar-Apr;39(2):133-6.
20. **Kahook MY**, Noecker RJ. Comparison of Corneal and Conjunctival Changes After Dosing of Travoprost Preserved With sofZia, Latanoprost With 0.02% Benzalkonium Chloride, and Preservative-free Artificial Tears. *Cornea.* 2008 Apr;27(3):339-343.
21. Noecker RJ, **Kahook MY**, Berke SJ, et al. Uncontrolled Intraocular Pressure After Endoscopic Cyclophotocoagulation. *J Glaucoma.* 2008 April/May;17(3):250-251.
22. **Kahook MY**, Noecker RJ, Abdelghani WM, Schuman JS. Filtering bleb rupture after intravitreal triamcinolone acetonide injection. *Ophthalmic Surg Lasers Imaging.* 2008 May-Jun;39(3):232-3.
23. **Kahook MY**, Noecker R. Quantitative analysis of conjunctival goblet cells after chronic application of topical drops. *Adv Ther.* 2008 Jul 31. [Epub ahead of print]
24. Hendrick AM, **Kahook MY**. The Ex-PRESS Minishunt: Surgical technique and review of clinical experience. *Expert Review of Medical Devices.* *Expert Rev Med Devices.* 2008 Nov;5(6):673-677.

25. Ho LY, Camejo L, **Kahook MY**, Noecker R. Effect of audible and visual reminders on adherence in glaucoma patients using a commercially available dosing aid. *Clin Ophthalmol*. 2008 Dec;2(4):769-72.
26. Hazin R, Hendrick AM, **Kahook MY**. Primary Open Angle Glaucoma: Diagnostic approach and Management. *JNMA* 2009;101(1):46-50.
27. Hazin R, Freeman PD, **Kahook MY**. Macular Degeneration: Approaches and Management for the primary care physician. *J Natl Med Assoc*. 2009 Feb;101(2):134-8.
28. Hazin R, Cadet JL, **Kahook MY**, Saed D. Ocular complications of Crystal Methamphetamine Abuse. *Neurotox Res*. 2009 Feb;15(2):187-91. Epub 2009 Feb 28.
29. **Kahook MY**, Camejo L, Noecker RJ. Trabeculectomy with intraoperative retrobulbar triamcinolone acetonide. *Clin Ophthalmol*. 2009;3:29-31. Epub 2009 Jun 2.
30. Horsley MB, **Kahook MY**. Effects of prostaglandin analog therapy on the ocular surface of glaucoma patients. *Clin Ophthalmol*. 2009;3:291-5. Epub 2009 Jun 2.
31. **Kahook MY**, Kimura AE, Wong LJ, Ammar DA, Maycotte MA, Mandava N. Sustained elevation in intraocular pressure associated with intravitreal bevacizumab injections. *Ophthalmic Surg Lasers Imaging*. 2009 May-Jun;40(3):293-5.
32. Hendrick AM, **Kahook MY**, Daoud YJ, Hazin R. Ophthalmic manifestations of endocrine disorders: approaches and medical management. *Curr Opin Ophthalmol*. 2009 Nov;20(6):495-503.
33. Ammar DA, **Kahook MY**. The Effects of Combination Glaucoma Medications on Ocular Surface Epithelial Cells. *Advances In Therapy*. In Press.
34. Horsley MB, **Kahook MY**. Anti-VEGF Therapy for Glaucoma. *Curr Opin Ophthalmol*. In Press.
35. **Kahook MY**, Ammar DA. In Vitro Effects of Anti-Vascular Endothelial Growth Factors on Cultured Human Trabecular Meshwork Cells. *Journal of Glaucoma*. In Press.

#### **PEER REVIEWED PUBLICATIONS (Non-Medline Indexed)**

1. **Kahook MY**, Braverman J, Ciardella A. Optical coherence tomography in a patient with benign reactive lymphoid hyperplasia. *Vision Pan America* 2004;3(4):7-8.
2. **Kahook MY**, Olson JL, Mandava N. Long term follow-up of intraocular pressure elevation in patients post intravitreal triamcinolone acetonide injection. *Vision Pan-America* 2005 December;IV(4):9-11.
3. **Kahook MY**, Raju L, Schuman JS, Noecker RJ. Iris retraction syndrome after clear cornea phacoemulsification. *The Internet Journal of Ophthalmology and Visual Sciences*. 2006;3(2).
4. **Kahook MY**, Noecker RJ. Glaucoma drainage devices for refractory glaucoma. *Techniques in Ophthalmology*. 2006 Jun;4(2):69-73.
5. **Kahook MY**, Noecker RJ. Iridoplasty: a review of technique and pitfalls. *Glaucoma Today* 2006 July/August; 4:34-36.
6. **Kahook MY**, Awadallah NS, Noecker RJ. Tim-Trav Combination Therapy. *Expert Review of Ophthalmology*. 2006;1:25-30.
7. **Kahook MY**, Schuman JS. The Medical Letter Therapeutic Guidelines: Glaucoma and Age Related Macular Degeneration. 2006
8. **Kahook MY**, Noecker RJ. Endoscopic Cyclophotocoagulation: a review of technique and therapeutic outcomes. *Glaucoma Today*, Nov-Dec 2006;4:24-29.

9. **Kahook MY.** Travatan Z: Efficacy and safety. Expert Review of Ophthalmology. Expert Review of Ophthalmol. 2007 June;2(3):363-8.
10. **Kahook MY,** Thomas SA, Ciardella AP. Central Serous Chorioretinopathy Associated with Chronic Dermal Camphor Application. The Internet Journal of Ophthalmology and Visual Science. 2007: 4(2).
11. **Kahook MY,** Noecker RJ. Trans-scleral cyclophotocoagulation: Basic technique and pearls for success. Glaucoma Today. July-August 2007;5(4):21-5.
12. Kullman G, Mandava N, Bennett JL, **Kahook MY.** Nutritional deficiencies: ocular side effects and visual field defects. Glaucoma Today, September-October 2007;5(5):45-8.
13. **Kahook MY,** Olson JL. Treating Neovascular Glaucoma with Intravitreal Bevacizumab. Techniques in Ophthalmology. 5(4):150-153, December 2007.
14. **Kahook MY,** Noecker RJ. Use of Tisseel Glue for Eye Surgery. Glaucoma Today 2008 May/June; 3:22-24.
15. **Kahook MY,** Lin SC. Anti-VEGF Therapy: Next Stop, Glaucoma? Review of Ophthalmology. May 2008; 15(5):47-49.
16. **Kahook MY.** Laser and surgical treatment: Ahmed glaucoma valve and cornea. Editorial. International Glaucoma Review. 10-2 September, 2008.
17. **Kahook MY,** Springs CL. Ocular Discomfort Related to Topical Glaucoma Therapy: Diagnostic and treatment techniques. Glaucoma Today. Supplement, November-December, 2008.
18. **Kahook MY.** Needle bleb revision with bevacizumab. Techniques in Ophthalmology. Techniques in Ophthalmology. December 2008; 6(4):111-113.
19. **Kahook MY.** Conjunctival modifications in ocular hypertension and primary open angle glaucoma: an in vivo confocal microscopy study Editorial. International Glaucoma Review. 10-3 December, 2008.
20. **Kahook MY,** Horsley MB. Extending a Retracted Glaucoma Drainage Device Tube. Glaucoma Today. January-February. 2009;7(1):37-40
21. Tenku KE, **Kahook MY,** Barnett CJ, Mandava N, Oliver, SC. An overview of the retina module of the Heidelberg Retina Tomograph 3. Retina Today. May-June. 2009;4(4):72-75.

#### **OTHER PUBLICATIONS (Non Peer Reviewed):**

1. **Kahook MY.** Diabetes. Spirit Magazine. April 2003:51.
2. **Kahook MY.** What is high blood pressure? Spirit Magazine. May 2003:49.
3. **Kahook MY.** Do you have cataracts? Spirit Magazine. July 2003:42.
4. **Kahook MY.** What is glaucoma? Spirit Magazine. August 2003:56.
5. **Kahook MY.** Age related macular degeneration. Spirit Magazine. December 2004:86.
6. **Kahook MY.** Choosing a subspecialty: pros and cons. Career Insight MD. Summer/Fall Edition 2005:36-7.
7. **Kahook MY,** Noecker RJ. Acute angle closure glaucoma. *emedicine* April, 2006.
8. **Kahook MY,** Noecker RJ. What causes aphakic glaucoma? Glaucoma Today. Sep-Oct 2006;4:29-30.
9. **Kahook MY,** Noecker RJ. How do you diagnose and treat malignant glaucoma? Glaucoma Today. Nov-Dec 2006;4:42-4.

10. **Kahook MY**, Noecker RJ. What causes steroid response glaucoma? *Glaucoma Today*. March-April 2007;5(2):48-50.
11. **Kahook MY**, Noecker RJ. Who is a good candidate for SLT? *Glaucoma Today*. May-June 2007;5(3):30-33
12. **Kahook MY**. Selective Laser Trabeculoplasty. *Mane Lioner*. March 2007.
13. **Kahook MY**. How to read an RNFL OCT printout. *Glaucoma Today*, May 2007. May-June 2007;5(4):30-33
14. **Kahook MY**. Why do choroidals form and how do you treat them? *Glaucoma Today*, July-August 2007;5(5):30-33
15. **Kahook MY**, Noecker RJ. How Do You Interpret a 24-2 Humphrey Visual Field Printout? *Glaucoma Today*, November-December 2007;5(6):42-3.
16. Gross R, Noecker RJ, **Kahook MY**, et al. Glaucoma medications and their effect on the ocular surface. *Glaucoma Today Volume 5, Issue 4 Supplement July-August 2007*.
17. **Kahook MY**, Davidson RS. Gradual Onset Ocular Surface Disease in a Glaucoma Patient. *Ophthalmology Management*. October 2007.
18. **Kahook MY**. Minishunt May Lead to Better Outcomes: The Ex-PRESS minishunt may enhance results in certain glaucoma patients. *Ophthalmology Management* December 2007.
19. **Kahook MY**. Endocyclophotocoagulation: A Valuable Diagnostic Tool. *Ophthalmology Management* December 2007.
20. **Kahook MY**, Noecker RJ. What is the role of the Express stent implantation in glaucoma surgery. *Glaucoma Today*. March-April 2008;6(2);50-51.
21. Fechtner R, **Kahook MY**, Budenz DL, et al. How Glaucoma Drops Impact the Ocular Surface. *Glaucoma Today Volume 6, Issue 3 Supplement May/June 2008*.
22. **Kahook MY**. Refractive surgery considerations in patients with glaucoma. *Refractive Eye Care*. May 2008.
23. **Kahook MY**. Anti-VEGF agents for wound modulation after trabeculectomy. *American Academy of Ophthalmology. O.N.E. Network* July, 2009.
24. **Kahook MY**. Glaucoma Surgery: How Do We Get from Here to There? *Middle East African Journal of Ophthalmology*, Volume 16, Number 3, July - September 2009; 105-6.

#### **ABSTRACTS (Peer Reviewed):**

1. **Kahook MY**. Honors Thesis: "Community outreach in type II diabetes: A guide for early detection and improved control." University of Akron, 1997.
2. Rollins Y, Quan D, **Kahook MY**, Pelak V, Neville H, Tanabe J, Escott E. Severe chronic demyelinating polyneuropathy and hypertrophic nerves. *Muscle Nerve* 2003; Suppl 12:177.
3. **Kahook MY**, May M. Assessing the usefulness of drop-zone glasses in glaucoma patients using eyedrops. *American Society of Cataract and Refractive Surgery Poster* May 2004.
4. **Kahook MY**, May M. Assistive devices for glaucoma therapy. Department of Ophthalmology Resident Research Day, University of Colorado Health Sciences Center, June 12, 2004.
5. **Kahook MY**, Olson J, Mandava N. Incidence of increased intraocular pressure post intravitreal triamcinolone acetate injection. *Association for Research in Vision and Ophthalmology* April 2005.

6. Ciardella A, **Kahook MY**, Brown D. Prevalence of serous neurosensory macular detachment in patients with acute anterior uveitis: An optical coherence tomography study. Association for Research in Vision and Ophthalmology April 2005.
7. Gurreiro E, **Kahook MY**, Schuman JS, Noecker RJ. The effects of bevacizumab on cultured corneal fibroblasts. Association for Research in Vision and Ophthalmology 2006.
8. Beaton S, Yu JY, **Kahook MY**, Schuman JS, Noecker RJ. Measurement of scleral bevacizumab concentration with ELISA after topical application. Association for Research in Vision and Ophthalmology 2006.
9. Camejo L, **Kahook MY**, Schuman JS, Noecker RJ. Analysis of the HRT III database in normal eyes. Association for Research in Vision and Ophthalmology 2006.
10. Mackenzie D, **Kahook MY**, Olson J, Mandava N. Biometric and Intraocular Pressure Evaluation of Eyes Post Intravitreal Triamcinolone Acetonide and Intravitreal Pegaptanib Injection. Association for Research in Vision and Ophthalmology 2006.
11. Farhi P, Kagemann L, **Kahook MY**, Schuman JS, Noecker RJ. The utility of tube fenestrations on IOP control post glaucoma drainage device implantation. Association for Research in Vision and Ophthalmology 2006.
12. Pantcheva M, **Kahook MY**, Schuman JS, Noecker RJ. The effect of laser probe distance on treatment outcomes with endoscopic laser cyclophotocoagulation. Association for Research in Vision and Ophthalmology 2006.
13. Pantcheva M, **Kahook MY**, Schuman JS, Noecker RJ. A Light and Electron Microscopy Study of Human Ciliary Body Tissue After Endoscopic Cyclophotocoagulation and Transscleral Cyclophotocoagulation. American Glaucoma Society March, 2006.
14. Yu JY, **Kahook MY**, Schuman JS, Noecker RJ. The Effect Viscoelastic Type on Endoscopic Cyclophotocoagulation Laser Energy Transmission. American Glaucoma Society March, 2006.
15. **Kahook MY**, Pantcheva M, Schuman JS, Noecker RJ. Location of Glaucoma Drainage Devices Relative to the Optic Nerve. American Glaucoma Society March, 2006.
16. **Kahook MY**, Schuman JS, Noecker RJ. Intraocular pressure comparison in post endoscopic cyclophotocoagulation patients: Iris hooks vs. viscoelastic. American Society of Cataract and Refractive Surgery March, 2006. (Glaucoma section: Poster of interest)
17. Pantcheva MB, **Kahook MY**, Schuman JS, Noecker RJ. A Light and Electron Microscopy Study of Pig Ciliary Body Tissue After Endoscopic Cyclophotocoagulation and Transscleral Cyclophotocoagulation. American Society of Cataract and Refractive Surgery March, 2006.
18. Yu JY, **Kahook MY**, Noecker RJ. Prevalence of dry eye syndrome in glaucoma patients. American Academy of Ophthalmology November 12, 2006.
19. **Kahook MY**, Noecker RJ. A study of patient compliance with post-operative dosing regimen using a commercially available dosing aid. American Academy of Ophthalmology, November 13, 2006.
20. Curtis TH, Mackenzie DL, Noecker RJ, **Kahook MY**. Comparison of the Diaton trans-palpebral tonometer versus Tonopen applanation. American Society of Cataract and Refractive Surgery April 2007.
21. Davidson RS, Faberowski N, Noecker RJ, **Kahook MK**. Comparison of the Diaton trans-palpebral tonometer versus Goldmann applanation. American Society of Cataract and Refractive Surgery 2007.

22. Noecker RJ, Camejo L, **Kahook MK**. Evaluation of adherence to morning versus evening glaucoma medication dosing regimens. American Society of Cataract and Refractive Surgery 2007.
23. Berger R, Mackenzie DL, **Kahook MY**. Intraocular Pressure Changes Associated with Muslim Prayer Postural Changes. American Society of Cataract and Refractive Surgery 2007.
24. Camejo L, Noecker RJ, **Kahook MY**. Trabeculectomy With Intraoperative Retrobulbar Triamcinolone Acetonide. American Society of Cataract and Refractive Surgery 2007.
25. **Kahook MY**, Camejo L, Noecker RJ. A comparison of intraocular pressure control between One-site versus two-site endoscopic cyclophotocoagulation after one year of follow-up. American Society of Cataract and Refractive Surgery 2007.
26. Mackenzie DL, **Kahook MY**, Camejo L, Noecker RJ. Short-term Intraocular Pressure Control with the 250 mm<sup>2</sup> versus 350 mm<sup>2</sup> Baerveldt Drainage Devices. American Society of Cataract and Refractive Surgery 2007.
27. Berger GR, Mackenzie DL, **Kahook MY**. Intraocular Pressure Changes Associated with Muslim Prayer Postural Changes in Normal Versus Glaucoma Patients. American Glaucoma Society; San Francisco, CA, March 2007.
28. Noecker RJ, Camejo L, **Kahook MY**. Sutureless Glaucoma Drainage Device Implantation. American Glaucoma Society San Francisco, CA, March 2007.
29. Falkenberry S, Faberowski N, Taravella M, **Kahook MY**. To compare frequency of elevated intraocular pressure (IOP) at 1 day post-operative visits after phacoemulsification by residents versus attendings. American Glaucoma Society San Francisco, CA, March 2007.
30. Ho L, Camejo L, **Kahook MY**, Noecker RJ. Effect of Audible Reminders on Adherence in Glaucoma Patients. American Glaucoma Society San Francisco, CA, March 2007
31. Yu JY, **Kahook MY**, Noecker RJ, Schuman JS. The effect of Avastin on Conjunctival Fibroblasts. American Glaucoma Society San Francisco, CA, March 2007.
32. Yu JY, **Kahook MY**, Schuman JS, Noecker RJ. Scleral Avastin Concentration After Topical Application. Association for Research in Vision and Ophthalmology April 2007.
33. Shah AK, Mackenzie DL, **Kahook MY**, Faberowski N. A Comparison of Central Corneal Thickness Measurements Obtained by Inspection and Pachymetry. Association for Research in Vision and Ophthalmology 2007.
34. Falkenberry S, Faberowski N, Taravella M, **Kahook MY**. Incidence of Early Post-operative Intraocular Pressure Elevation in Resident versus Attending Phacoemulsification Procedures. Association for Research in Vision and Ophthalmology 2007.
35. **Kahook MY**, Mackenzie DL, Faberowski N, Durairaj VD, Mandava N. Effect of Corneal Drying on Corneal Hysteresis Measurements Using the Ocular Response Analyzer. Association for Research in Vision and Ophthalmology 2007.
36. Corrales GA, Pantcheva M, **Kahook MY**, Schuman JS, Noecker RJ. A Descriptive Cross-Sectional Survey Assessing the Prevalence of Complementary and Alternative Medicine Use in Patients Visiting UPMC Eye Center. Association for Research in Vision and Ophthalmology 2007.
37. Davidson RS, **Kahook MY**, Roach RC, M.D. Honigman B. Temporary Vision Loss at High Altitude as a Result of Intermittent Anterior Chamber Angle Closure. International Hypoxia Symposium, 2007.

38. **Kahook MY**, Noecker RJ. Quantitative Analysis of Conjunctival Goblet Cells after Exposure to Latanoprost with 0.02% Benzalkonium Chloride, Travoprost with Sofzia, or Preservative Free Artificial tears. TFOS Taormina Italy, September 4th 2007.
39. **Kahook MY**, Noecker RJ. Quantitative Analysis of Corneal Epithelial Desmosomes after Exposure to Latanoprost with 0.02% Benzalkonium Chloride, Travoprost with Sofzia, or Preservative Free Artificial tears. TFOS Taormina Italy, September 4th 2007.
40. Pantcheva MB, **Kahook MY**, Herceg MC, Noecker RJ. One year comparison in outcomes between suture and fibrin glue assisted glaucoma drainage device surgery. American Glaucoma Society 2008 Washington, DC, March 2008.
41. Falkenberry SM, **Kahook MY**. Decrease in Intraocular Pressure after Endoscopic Cyclophotocoagulation With and Without Concomitant Phacoemulsification. American Glaucoma Society 2008 Washington, DC, March 8th 2008.
42. Horsely MB, **Kahook MY**. Changes in Tear Break-Up Time and Ocular Surface Disease Index after Initiation of Travoprost with SofZia™ in Patients Previously Using Latanoprost with Benzalkonium Chloride. American Glaucoma Society 2008. Washington, DC, March 8<sup>th</sup>, 2008.
43. Pantcheva MB, **Kahook MY**, Herceg MC, Camejo L, Schuman JS, Noecker RJ. A Descriptive Cross-Sectional Survey Assessing the Demographic Variations in the Prevalence of Complementary and Alternative Medicine Use in Patients visiting UPMC Eye Center. Association for Research in Vision and Ophthalmology, Washington DC, March 8<sup>th</sup>, 2008.
44. Horsley MB, **Kahook MY**. Anterior Segment Optical Coherence Tomography of Blebs after Non-valved Glaucoma Drainage Device Implantation. Accepted. American Academy of Ophthalmology Annual Meeting. Atlanta GA, November 11<sup>th</sup>, 2008.
45. **Kahook MY**, Mundorf T, Williams RD, Dunmire J, Edward DP. Histologic Analysis of Conjunctival Samples from Patients on Chronic Intraocular. American Glaucoma Society Annual Meeting San Diego march 7<sup>th</sup>, 2009.
46. Russo C, Badesch DB, Ayala AJ, McCollister DH, **Kahook MY**. The Effect of Oral Endothelin Antagonists on Intraocular Pressure in Patients with Pulmonary Hypertension American Glaucoma Society Annual Meeting San Diego march 7<sup>th</sup>, 2009.
47. Ayala AJ, Bremer RW, Cook PF, **Kahook MY**. Effect of Glaucoma Educators on Adherence to Prescribed Therapeutic Regimens in Glaucoma Patients American Glaucoma Society Annual Meeting San Diego march 7<sup>th</sup>, 2009.
48. Freeman D, **Kahook MY**, Curtis TH. Glaucoma Drainage Device Implantation in Pediatric Patients Using Fibrin-Glue Accepted. American Association of Pediatric Ophthalmology and Strabismus Annual Meeting. April, 2009.
49. Ammar DA, **Kahook MY**. In Vitro Effects of Bevacizumab on Cultured Human Trabecular Meshwork Cells. World Glaucoma Congress. Boston, MA July 8<sup>th</sup>, 2009.
50. Ammar DA, **Kahook MY**. Effects of varying concentrations of benzalkonium chloride (BAK) alone and in marketed topical ophthalmic formulations on cultured human conjunctival epithelial cells. World Glaucoma Congress. Boston, MA July 8<sup>th</sup>, 2009.

## CHAPTERS (invited):

1. **Kahook MY**, Noecker RJ, Schuman JS. Glaucoma: rapid diagnosis in ophthalmology series.
2. **Kahook MY**, Noecker RJ, Schuman JS. Cycloablation. Albert DM, Jakobiac FA. Principles and Practice of Ophthalmology: Philadelphia, PA; WB Saunders Company.
3. **Kahook MY**, Noecker RJ, Schuman JS. Optic Nerve Head and Nerve Fiber Layer Imaging. Albert DM, Jakobiac FA. Principles and Practice of Ophthalmology: Philadelphia,PA; WB Saunders Company.
4. **Kahook MY**. Neovascular Glaucoma. Yanoff M, Duker JS. Ophthalmology 3<sup>rd</sup> edition, Philadelphia: Mosby.
5. **Kahook MY**, Gamell L, Schuman JS. Combination Therapy. Glaucoma Medical Therapy: principles and management. (American Academy of Ophthalmology). 2<sup>nd</sup> Edition. October, 2006.
6. **Kahook MY**, Schuman JS. Surgical management of cataract in the glaucomatous eye. Master Techniques 2<sup>nd</sup> edition.
7. **Kahook MY**, Schuman JS. "Therapeutic Drugs for Anterior Segment Ocular Surgery" Ocular Therapeutics - An Eye on New Discoveries.
8. **Kahook MY**, Schuman JS. "Anterior Angle Closure Glaucomas -Anterior (Pulling) Mechanisms" Glaucoma: Mechanisms and Management.
9. **Kahook MY**, Schuman JS. "Complications from Cycloablation". Shaarawy et al: Glaucoma, 1st edition.
10. **Kahook MY**. "In Which Patients Should I Consider Cyclophotocoagulation?" Curbside Consultations in Glaucoma. In Press.
11. **Kahook MY**, Wilson MR. "What is the natural history of untreated glaucoma and ocular hypertension?" Frequently Asked Questions In Glaucoma. In Press.
12. Russo CJ, **Kahook MY**. "Cycloablation" The Glaucoma Book. In Press.
13. Russo CJ, **Kahook MY**. "Cycloablation" US Ophthalmic Review. In Press.
14. **Kahook MY**. Descemet's Membrane Detachments. Glaucoma. In Press.

**LECTURES and CME EVENTS (National & International):**

1. New Therapeutics for Pediatric and Adult Conjunctivitis. Resident Seminar Presentation, Rocky Mountain Lions Eye Institute, University of Colorado; Aurora CO, May 2003.
2. Traumatic Iridectomy Post Cataract Surgery. 7<sup>th</sup> Annual University of Colorado Department of Ophthalmology Alumni Day; Aurora CO, June 7, 2003.
3. Advances in Glaucoma Surgery. Resident Seminar Presentation, Rocky Mountain Lions Eye Institute, University of Colorado; Aurora CO, May 2004.
4. The Role of Proteomics in Diagnosis of Age Related Macular Degeneration and Diabetic Retinopathy. 8<sup>th</sup> Annual Rocky Mountain Lions Eye Institute Symposium; Aurora CO, September 2004.
5. Carbohydrate Deficient Glycoprotein Syndrome Type 1c with Psuedotumor Cerebri. Ophthalmic Genetics Study Club. American Academy of Ophthalmology meeting New Orleans, 2004.
6. Primary vs. Secondary Optic Atrophy. Ophthalmology Forum, Denver Health Medical Center; Denver CO, November 2004.

7. Imaging Devices for the Detection and Monitoring of Glaucoma. Resident Seminar Presentation, Rocky Mountain Lions Eye Institute. University of Colorado; Aurora CO, May 2005.
8. Ocular Manifestations of Congenital Disorders of Glycosylation. 9<sup>th</sup> Annual Alumni Day, University of Colorado, Department of Ophthalmology; Aurora CO, June 18, 2005.
9. Reversal of Macular Edema Post Long Standing Hypotony Maculopathy with Trans-tenon's Triamcinolone Acetonide. 9<sup>th</sup> Annual Alumni Day, University of Colorado, Department of Ophthalmology; Aurora CO, June 18, 2005.
10. Long Term Follow-Up of Intraocular Side-effects Post Intravitreal Triamcinolone Acetonide. 9<sup>th</sup> Annual Alumni Day, University of Colorado, Department of Ophthalmology; Aurora CO, June 18, 2005.
11. Visual Field Interpretation. The University of Pittsburgh Eye and Ear Center; Pittsburgh PA, August 10, 2005.
12. A comparison between OHTS and EGPS. The University of Pittsburgh Eye and Ear Center; Pittsburgh PA, September 14, 2005.
13. Diagnostic imaging in glaucoma. The University of Colorado Health Sciences Center, Aurora Colorado, October 21, 2005.
14. Suprachoroidal hemorrhage in incisional glaucoma surgery. Glaucoma lecture series, The University of Pittsburgh Eye and Ear Center; Pittsburgh PA, October 28, 2005.
15. Medical-legal issues for the practicing Ophthalmologist. Glaucoma lecture series, The University of Pittsburgh Eye and Ear Center; Pittsburgh PA, November 3, 2005.
16. Acute angle closure glaucoma: Diagnosis and management. Glaucoma lecture series, The University of Pittsburgh Eye and Ear Center; Pittsburgh PA, November 15, 2005.
17. Pseudoexfoliation Glaucoma: Diagnosis and management. Glaucoma lecture series, The University of Pittsburgh Eye and Ear Center; Pittsburgh PA, December 21, 2005.
18. Combined Phacoemulsification and Trabeculectomy. Glaucoma lecture series, The University of Pittsburgh Eye and Ear Center; Pittsburgh PA, January 17, 2006.
19. Identifying the Glaucomatous Nerve. Glaucoma lecture series, The University of Pittsburgh Eye and Ear Center; Pittsburgh PA, January 24, 2006.
20. Glaucoma Treatment Trials. Glaucoma lecture series, The University of Pittsburgh Eye and Ear Center; Pittsburgh PA, February 21, 2006.
21. Glaucoma OKAP Review. The University of Pittsburgh Eye and Ear Center; Pittsburgh PA, February 28, 2006.
22. Lasers and Glaucoma. Glaucoma lecture series, The University of Pittsburgh Eye and Ear Center; Pittsburgh PA, April 18, 2006.
23. Steroid Glaucoma. Glaucoma lecture series, The University of Pittsburgh Eye and Ear Center; Pittsburgh PA, April 25, 2006.
24. Using the TDA Device in a University Practice: Case presentation. Boston HITS meeting; Boston MA, May 21, 2006.
25. How to make a safe continuous rhexis. UPMC Phaco Course, Pittsburgh, PA, June 2006.
26. The basics of endoscopic cyclophotocoagulation. Allergan sponsored community discussion. Pittsburgh, PA, June 2006.
27. Glaucoma drainage device positioning relative to the optic nerve. UPMC Resident and Fellow Research Day; Pittsburgh PA, June 17, 2006.
28. Compliance with glaucoma therapy. Pittsburgh, PA June 29, 2006.

29. How to improve adherence to glaucoma therapy: the role of the Travatan dosing aid in clinical practice. Omaha, NE July 20, 2006.
30. How to improve patient outcomes and facilitate office flow with the Travatan dosing aid. El Paso, TX July 27, 2006.
31. How to improve patient outcomes and facilitate office flow with the Travatan dosing aid. Denver, CO September 14, 2006.
32. Adherence devices in ophthalmology. Resident Round Table. Denver, CO September 26, 2006.
33. Imaging in Glaucoma: How does the GDx fit in to glaucoma diagnosis? Topeka, KS October 17, 2006.
34. Adherence and use of the Travatan Dosing Aid. Visiting Professorship, Alcon national sales meeting. Denver, CO October 17, 2006.
35. Travatan Z: Does BAK free make a difference? Tulsa, OK October 25, 2006.
36. Visual Field Interpretation. Denver, CO October 27, 2006.
37. Travatan Dosing Aid: Integration in to practice and pearls for the practicing ophthalmologist. Tucson, AZ October 29, 2006.
38. Lasers and Glaucoma. Technician Education Series. Rocky Mountain Lions Eye Institute, University of Colorado Department of Ophthalmology; Aurora CO, November 15, 2006.
39. Innovations in Glaucoma Treatment. El Paso, TX November 28, 2006.
40. Innovations in Glaucoma Treatment. Denver, CO December 5, 2006.
41. Travatan Z: BAK and ocular surface disease. Oklahoma City, OK December 14, 2006.
42. Optical Coherence Tomography and Glaucoma Diagnosis. Denver, CO December 19, 2006.
43. Evolution of Glaucoma Drainage Device Implantation. Denver, CO January 5, 2007.
44. Medical Therapy for Glaucoma Patients. Denver, CO January 17, 2007.
45. Operating Room Pearls for ECP. Denver, CO January 19, 2007.
46. Efficacy of Travatan Z for Intraocular Pressure Lowering. Colorado Springs, CO January 23, 2007.
47. Evolution of Glaucoma Surgery. Fort Worth, TX February 9, 2007.
48. Ocular Surface Disease. Akron, OH February 20, 2007.
49. Corneal and conjunctival inflammation after topical glaucoma therapy. HITS meeting Tucson, AZ March 10, 2007.
50. Travatan Z and the Ocular Surface. HITS meeting Tucson, AZ March 11, 2007.
51. Is there a need for BAK free glaucoma medications? Delray Beach, FL March 22, 2007.
52. Glaucoma therapy and the ocular surface. WAEPS meeting, Seattle, WA. March 29, 2007.
53. The ocular surface and glaucoma. Colorado Springs, CO. April 4<sup>th</sup>, 2007.
54. OKAP Review: Retina and Uveitis. Rocky Mountain Lions Eye Institute, University of Colorado; Aurora CO, April 3, 2007.
55. OKAP Review: Glaucoma and Neuro-Ophthalmology. Rocky Mountain Lions Eye Institute, University of Colorado; Aurora CO, April 3, 2007.
56. Comparative effect of glaucoma medications on the ocular surface. Glaucoma Educators Meeting. Dallas TX, April 14, 2007.
57. Glaucoma and the primary care physician. Ophthalmology for the Primary Care Provider Symposium; Denver CO, April 21, 2007.

58. How to read a visual field. Tech Educational Series, Rocky Mountain Lions Eye Institute, University of Colorado; Aurora CO May 16, 2007.
59. Travatan Z and the Ocular Surface. HITS meeting Toronto, Ontario, Canada, May 19, 2007.
60. Ocular surface disease case studies. HITS meeting Toronto, Ontario, Canada, May 20, 2007.
61. Ocular surface disease case studies. HITS meeting Toronto, Ontario, Canada, September 8th, 2007.
62. Histologic evaluation of rabbits treated with glaucoma medications. Vision Research Symposium. RMLEI September 21<sup>st</sup>, 2007.
63. Treating post-PK glaucoma. Sally Letson Symposium. Ottawa, Canada, September 29<sup>th</sup>, 2007.
64. Cyclophotocoagulation then and now. Sally Letson Symposium. Ottawa, Canada, September 29<sup>th</sup>, 2007.
65. What to do with re-ops. Sally Letson Symposium. Ottawa, Canada, September 29<sup>th</sup>, 2007.
66. The ocular surface and glaucoma therapy. RMLEI 11<sup>th</sup> Annual Symposium. October, 20th 2007.
67. Laser Peripheral Iridotomy. American Academy of Ophthalmology; New Orleans, LA, November 11, 2007.
68. Fibrin Glue for Glaucoma Surgery. American Academy of Ophthalmology; New Orleans, LA, November 12, 2007.
69. New Medical and Surgical Developments in Glaucoma Management. Grand Rounds January 8<sup>th</sup> 2008. UNM department of Ophthalmology. Albuquerque, NM.
70. "Adherence to glaucoma therapy". Royale Hawaiian Eye Meeting. January 24<sup>th</sup> 2008. Kona, Hawaii.
71. "Implantation of the Express glaucoma device". Royale Hawaiian Eye Meeting. January 24<sup>th</sup> 2008. Kona, Hawaii.
72. "Ocular Surface Disease and Glaucoma Therapy". Royale Hawaiian Eye Meeting. January 25<sup>th</sup> 2008. Kona, Hawaii.
73. "Ocular surface changes due to benzalkonium chloride". HITS February 9<sup>th</sup> 2008. San Diego, CA.
74. What is Glaucoma? Glaucoma Support Group (GERS) April 12<sup>th</sup>, 2008. Aurora, CO.
75. New Medical and Surgical Developments in Glaucoma Management. Grand Rounds April 16<sup>th</sup>, 2008. Case Western University, Department of Ophthalmology Cleveland, OH.
76. Basics of Glaucoma Therapy. RMLEI PCP Course. May 10<sup>th</sup> 2008. Denver, CO.
77. Glaucoma OKAP Review. April 18<sup>th</sup>, 2008. Department of Ophthalmology. SUMMA Health Systems. Akron OH.
78. Changes in Tear Break Up Time after Glaucoma Therapy. Glaucoma Educators Meeting. May 16<sup>th</sup> 2008. Ft. Lauderdale, FL.
79. Ocular Surface Disease and Glaucoma Therapy. HITS May 17<sup>th</sup> 2008. Ft Lauderdale, FL.
80. Cases Studies in Glaucoma Therapy. HITS May 18<sup>th</sup> 2008. Ft Lauderdale, FL
81. Developments in Glaucoma Therapy. May 20<sup>th</sup> 2008, Omaha, NE.
82. Glaucoma and the Ocular Surface. June 17<sup>th</sup> 2008, Indianapolis, IN.
83. Tear Break-up Time and Glaucoma Therapy. June 19<sup>th</sup> 2009, Ft. Collins, CO.
84. Basics of Visual Field Testing. July 9<sup>th</sup>, 2008 University of Colorado Denver, CO.

85. Pulmonary Hypertension and the Eye. July 13<sup>th</sup> 2008, Denver, CO.
86. Changes in Tear Break-up Time in Glaucoma Patients. July 15<sup>th</sup> 2008 Phoenix, AZ.
87. Imaging in Glaucoma. Porter Hospital Grand Rounds. July 24<sup>th</sup> 2008 Denver, CO.
88. Emerging Research in Glaucoma. Genentech EyeQ Rounds. August 8<sup>th</sup>, 2008 San Francisco, CA.
89. Complementary and Alternative Medicine in Glaucoma. GERS support group. August 9<sup>th</sup>, 2008 Denver, CO.
90. New Surgical Techniques for Glaucoma. University of Colorado Department of Ophthalmology Grand Rounds. September 5, 2008 Denver, CO.
91. Endocyclophotocoagulation: Pearls for success. September 6<sup>th</sup>, 2008 Washington D.C.
92. Clinical Evaluation of Ocular Surface Disease in Glaucoma Patients. September 11<sup>th</sup>, 2008. Denver, CO.
93. Psychophysical Testing in Glaucoma: New developments. Massachusetts Eye and Ear Institute Glaucoma Symposium. September 12<sup>th</sup>, 2008. Boston, MA.
94. Anti-VEGF Therapy in Glaucoma. Rocky Mountain Lions Eye Institute 12<sup>th</sup> Annual Symposium. September 20<sup>th</sup>, 2008. Denver, CO.
95. Glaucoma Drainage Device Implantation. The University of Bologna Department of Ophthalmology Summer School 2008. September 23<sup>rd</sup>, 2008. Bologna, Italy.
96. Emerging Surgeries for Glaucoma. The University of Bologna Department of Ophthalmology Summer School 2008. September 23<sup>rd</sup>, 2008. Bologna, Italy.
97. Anti-VEGF Therapy in Glaucoma. The University of Bologna Department of Ophthalmology Summer School 2008. September 23<sup>rd</sup>, 2008. Bologna, Italy.
98. Effects of Anti-VEGF Therapy on Human Trabecular Meshwork Cells. The University of Bologna Department of Ophthalmology Summer School 2008. September 23<sup>rd</sup>, 2008. Bologna, Italy.
99. Anti-VEGF Therapy and Glaucoma. Grand Rounds. Cleveland Clinic Cole Eye Institute. October 31, 2008. Cleveland, OH.
100. Anecortave Acetate Injection Technique. November 7<sup>th</sup>, 2008. Atlanta, GA.
101. Glaucoma Drainage Device Implantation: My technique. Glaucoma sub-specialty day. American Academy of Ophthalmology. November 8<sup>th</sup>, 2008. Atlanta, GA.
102. HRT3 Imaging in My Practice. November 8<sup>th</sup>, 2008. Atlanta, GA.
103. Basics of Visual Field Interpretation. Tulane Online Lecture Series. December 13<sup>th</sup>, 2008.
104. Paradigms in Glaucoma Therapy. Royal Hawaiian Eye Meeting. Maui, Hawaii January 20<sup>th</sup>, 2009.
105. Evidence Based Approach: Are our treatment paradigms for glaucoma rational? Royal Hawaiian Eye Meeting. Maui, Hawaii January 21<sup>st</sup>, 2009.
106. Removal of the ExPRESS Minishunt. Royal Hawaiian Eye Meeting. Maui, Hawaii January 21<sup>st</sup>, 2009.
107. Glaucoma Drainage Device as Primary Intervention. Ocular Drug & Surgical Therapy Update. San Diego, CA February 14, 2009.
108. Advances in Imaging the Eye. Cutting Edge. San Diego, CA March 5<sup>th</sup>, 2009.
109. Trabectome Evidence Based Medicine. American Glaucoma Society Meeting. San Diego, CA March 6<sup>th</sup>, 2009.
110. Glaucoma and Anti-VEGF Therapy. American Glaucoma Society Meeting. San Diego, CA March 7<sup>th</sup>, 2009.
111. Endocyclophotocoagulation. Current Concepts Vail Meeting. Vail, CO March 20<sup>th</sup> 2009.

112. Glaucoma and Ocular Surface Disease. Current Concepts Vail Meeting. Vail, CO March 20<sup>th</sup> 2009.
113. Use of Anti-VEGF Agents in Glaucoma Surgery. Current Concepts Vail Meeting. Vail, CO March 20<sup>th</sup> 2009.
114. Endocyclophotocoagulation. Middle East Africa Congress of Ophthalmology. Manama, Bahrain March 29<sup>th</sup> 2009.
115. Anti-VEGF Therapy and Filtration Surgery. Middle East Africa Congress of Ophthalmology. Manama, Bahrain March 29<sup>th</sup> 2009.
116. OKAP review. Denver, CO April 1<sup>st</sup>, 2009.
117. Endocyclophotocoagulation. Joint AGS/ASCRS Symposium. ASCRS 2009. San Francisco, CA April 4<sup>th</sup>, 2009.
118. OKAP review. Denver, CO April 8<sup>th</sup>, 2009.
119. Developments in Glaucoma Research. GERS Meeting. Denver, CO April 11<sup>th</sup>, 2009.
120. Use of Spectral Optical Coherence Tomography in Glaucoma. University of Bologna OCT Course. Bologna, Italy April 18<sup>th</sup>, 2009.
121. Use of Spectral Optical Coherence Tomography for Imaging the Anterior Chamber. University of Bologna OCT Course. Bologna, Italy April 18<sup>th</sup>, 2009.
122. Use of Spectral Optical Coherence Tomography for Imaging the Choroid. University of Bologna OCT Course. Bologna, Italy April 18<sup>th</sup>, 2009.
123. The effect of BAK on Human Corneal and Conjunctival Cells. Dallas, TX June 5<sup>th</sup>, 2009.
124. Ocular Surface Disease in Glaucoma Patients. Dallas, Tx June 6<sup>th</sup> 2009.
125. Adherence in Glaucoma Therapy. GERS Meeting. Denver, CO June 16<sup>th</sup> 2009.
126. Ocular Imaging. Resident Orientation. Denver, CO July 7<sup>th</sup>, 2009.
127. Therapeutic Strategies to reduce Ocular Side Effects with Glaucoma Therapy. World Glaucoma Congress. Boston, MA July 10<sup>th</sup>, 2009.
128. Anti-VEGF Agents for the Trabeculectomy Patient. World Glaucoma Congress. Boston, MA July 10<sup>th</sup>, 2009.
129. Endocyclophotocoagulation for the General Ophthalmologist. South East Eye Meeting. Destin, FL July 23<sup>rd</sup> 2009.
130. Anti-VEGF Agents and Glaucoma. South East Eye Meeting. Destin, FL July 23<sup>rd</sup> 2009.
131. Intravitreal Lucentis and Filtrations Surgery. UCD 13<sup>th</sup> Annual Symposium. Denver, CO September 26<sup>th</sup> 2009.
132. Can Anti-VEGF Agents Cause Glaucoma? Glaucoma Subspecialty Day. American Academy of Ophthalmology Annual Meeting 2009. San Francisco, CA October 25<sup>th</sup>, 2009.
133. Lasers in Glaucoma: Laser Peripheral Iridectomy. American Academy of Ophthalmology Annual Meeting 2009. San Francisco, CA. October 26th, 2009.
134. Can Anti-VEGF Agents Cause Glaucoma? Late Breakers. American Academy of Ophthalmology Annual Meeting 2009. San Francisco, CA October 27<sup>th</sup>, 2009.

**INSTRUCTIONAL COURSE/FACULTY MEMBER:**

1. Laser Treatment of Glaucoma: Teaching laser procedures for treatment of glaucoma, American Academy of Ophthalmology; Chicago IL, 2005.

2. Basics of Microsurgery & Suturing Work Shop: UPMC Wet Lab, Pittsburgh, PA October 10, 2005.
3. Trabeculectomy Work Shop: UPMC Wet Lab, Pittsburgh, PA November 12, 2006.
4. Helping Improve Therapeutic Success (HITS). Sponsored by ALCON, Boston, MA May 19-22, 2006.
5. UPMC Phaco Course, Pittsburgh, PA, June 3, 2006.
6. Helping Improve Therapeutic Success (HITS)2. Sponsored by ALCON, Denver, CO June 23, 2006.
7. Helping Improve Therapeutic Success (HITS)3. Sponsored by ALCON, Tucson, AZ October 27-29, 2006.
8. Lasers in Glaucoma for the Novice Technician. American Academy of Ophthalmology, Las Vegas, NV, November 11, 2006.
9. Diagnostic Imaging in Glaucoma for the Novice Technician. American Academy of Ophthalmology; Las Vegas, NV, November 11, 2006.
10. Lasers in Glaucoma: Laser Peripheral Iridectomy. American Academy of Ophthalmology; Las Vegas, NV, November 12, 2006.
11. Lasers in Glaucoma: Wet Lab. American Academy of Ophthalmology; Las Vegas, NV, November 12, 2006.
12. Lasers in Glaucoma: Laser Peripheral Iridectomy. American Academy of Ophthalmology; New Orleans, LA, November 11, 2007.
13. Fibrin Glue in Ocular Surgery. American Academy of Ophthalmology; New Orleans, LA, November 11, 2007.
14. Lasers in Glaucoma: Wet Lab. American Academy of Ophthalmology; Atlanta, GA, November 9th, 2008.
15. Laser Peripheral Iridotomy. AAO Laser Course. November 9<sup>th</sup>, 2008. Atlanta, GA.
16. Lasers in Glaucoma. American Academy of Ophthalmology Annual Meeting 2009. San Francisco, CA. October 26th, 2009.

**VOLUNTEER WORK:**

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| 2002-2003  | Nine News Health Fair: Ophthalmology screening exams for the community, University of Colorado Hospital, Aurora CO. |
| April 2004 | Keystone Nurse Practitioner Workshop: Teaching Ophthalmoscopy Where?  |
| April 2006 | Friends of the Congressional Glaucoma Caucus. Community Glaucoma Screening. Pittsburgh, PA.                         |
| Nov 2007   | Community Glaucoma Screen. Heather Gardens Denver, CO.  |
| Oct 2008   | Community Glaucoma Screen. Givens Institute Aspen, CO.  |