

STATE BOARD OF OPTOMETRY

2450 DEL PASO ROAD, SUITE 105, SACRAMENTO, CA 95834 P (916) 575-7170 F (916) 575-7292 www.optometry .ca.gov





Continuing Education Course Approval Checklist

Title:

Provider Name:

✓ Completed Application
 Open to all Optometrists?
 ✓ Yes
 ✓ No
 Maintain Record Agreement?
 ✓ Yes

Correct Application Fee

☑ Detailed Course Summary

Detailed Course Outline

PowerPoint and/or other Presentation Materials

Advertising (optional)

CV for EACH Course Instructor

☑License Verification for Each Course Instructor Disciplinary History? □Yes ☑No



February 1, 2017

California State Board of Optometry 2450 Del Paso Road, Suite 105 Sacramento, CA 95834

Dear California State Board of Optometry,

Re: Returned CE Course Approval Request - The Other Glaucoma

This letter serves to furnish the items requested after preliminary review of my initial application.

A sincere effort was made to submit the initial application 45 days in advance of the presentation date; however, I did not receive the presentation materials from Dr. Neda Shamie within an acceptable time frame. That said, I waited to mail the entire CE application packet until I was in possession of all presentations for the Kaiser Permanente 2017 Optometry Symposium. In the future, I will be more stringent with each instructor to ensure I have all necessary materials well in advance of the symposium date.

Additionally, there was a misunderstanding of the CE Course Approval Application process as I was unaware of the requirement that the application be submitted electronically and not by mail. Moving forward, I am now clear of the requirements and will submit future applications via email.

If you have any questions, please feel free to contact me at (626) 405 – 4648 or by email jennifer.n.iacuaniello@kp.org.

Sincerely,

Jennifer la cuaniello

Jennifer Iacuaniello

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CONTIN			PPROV	<u> </u>		
\$50 Mandatory Fee	APPLIC	CATION				
ursuant to California Code of Regu eceiving the applicable fee, the requ pecified in CCR § 1536(g).	lations (CCR) § <u>1536</u> , th uested information below	e Board will approve and it has been det	continuing e ermined that	ducation (C the course	CE) courses meets crite	s after eria
n addition to the information reques resentation materials (e.g., PowerP resentation date. Iease type or print clearly .	ted below, please attach 'oint presentation). Appl	a copy of the course ications must be sub	e schedule, a mitted 45 day	detailed co ys prior to t	ourse outlin he course	ie and
ourse Title		Course Presentat	ion Date			
he Other Glaucoma		02/	11/2		7	
	Course Provider (Contact Information				
rovider Name	Course Provider C	sontact mormation	<u>9</u> 			
Jennifer	lacuaniello		Nami			
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rovider Email Address	n.iacuaniello@kp.org	State	zıp			
Vill the proposed course be open	ı to all California licens	ed optometrists?		9	YES 🗆	NO
o you agree to maintain and furr f course content and attendance rom the date of course presentat	hish to the Board and/o as the Board requires, ion?	or attending license , for a period of at l	e such recor east three ye	ds ears P	YES 🗆	NO
Please provide the information below there are more instructors in the constructor Name	Course Instruct w and attach the curriculut ourse, please provide the	ctor Information um vitae for <u>each</u> ins e requested informat	tructor or lect	urer involvo arate sheet	ed in the co of paper.	ourse.
Andrew	Mick		Boyd			
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icense Number 11996		License Type Op	tometrist		- <u>12</u> 	
Phone Number (<u>415</u>) <u>221-4810</u>) ext. 4606	Email Address an	drew.mick(@va.gov		
declare under penalty of perjury his form and on any accompanyj	under the laws of the S ing attachments submit	State of California t tted is true and cor	hat all the in rect.	formation	submitted	l on
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WELCOME!

Please join us at this informative conference for Kaiser Permanente optometrists, opticians and other interested health care professionals. This event will provide a congenial atmosphere to exchange ideas and learn from notable experts in optometry and related fields.

Madhu Chawla, OD Chairperson, Optometry Symposium Committee

DATE & LOCATION

Saturday, February 11, 2017

The Waterfront Beach Resort, A Hilton Hotel 21100 Pacific Coast Highway

21100 Pacific Coast Highway Huntington Beach, CA 92648 (714) 845 - 8000

AGENDA Download the symposium agenda

FACULTY Click here to meet the faculty

SOCIAL MEDIA

Follow us on facebook and twitter for up to date information on all symposia.



Reminder Name badges will no longer be printed. Please bring your Kaiser Permanente issued badge for identification.

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LEARNING OBJECTIVES

At the end of this activity, participants should be able to:

- 1. Enhance their knowledge surrounding the treatment and management of glaucoma
- 2. Co-manage patients with corneal disorders
- Be informed and learn about new diagnostic technology available for patient care for the treatment and management of glaucoma and corneal disorders
- Gain a better understanding of treatment options available for anterior segment disorders
- 5. Enhance knowledge of systemic disease as it applies to eye care
- Reinforce knowledge of the standard of care within the profession and optimize care delivery

TARGET AUDIENCE

Optometrists, Ophthalmologists, Opticians and any other interested health care professionals

ACCREDITATION

Optometrists – California State Board of Optometry approval pending.

PERSONS WITH DISABILITIES

In compliance with the Americans with Disabilities Act, all reasonable efforts will be made to accommodate persons with disabilities at the meeting. If you have any special dietary or accommodation needs, please notify the meeting planner listed, prior to the symposium at (626) 405-4648 or tie-line 8-335-4648. This advance notice will help us serve you better.



2017 Optometry Symposium

Saturday, February 11, 2017

Agenda	
7:00 am	Registration and Breakfast
7:50 am	Welcome and Introductions
8:00 am	Potpourri of Corneal Cases Neda Shamie, MD
8:50 am	Corneal Dystrophies and Pathology Neda Shamie, MD
9:40 am	Morning Break
10:00 am	Systemic and Medical Jeopardy David Sendrowski, OD
10:50 am	Viral Infections of the Anterior Segment David Sendrowski, OD
11:40 am	OD of the Year
11:50 am	Lunch
12:50 pm	Lessons Learned as a Malpractice Consultant Andrew Mick, OD
2:30 pm	Afternoon Break
2:40 pm	The Other Glaucoma Andrew Mick, OD
3:30 pm	Enlarged Optic Nerve Cupping Andrew Mick, OD
4:20 pm	Closing Comments and Raffle
Agenda is sub	oject to change



Course: The Other Glaucoma

Speaker: Andrew Mick, OD, FAAO

Time: 2:40 pm – 3:30 pm

CE Requested: 1 Hour

Summary: Angle closure glaucoma has not received wide spread attention in the United States as the number of cases in Asia are significantly higher. Angle closure glaucoma is more prevalent than most suspect so it's imperative for optometrists to identify the disease. This lecture provides understanding of the causes, clinical signs, risk factors, and treatments for angle closure glaucoma.

Objective: Be informed and learn about new diagnostic technology available for patient care for the treatment and management of glaucoma.

Topical Outline

- 1. Diagnosis
 - a. Characteristics signs/symptoms
 - b. Understanding at risk populations and causative factors
 - c. Gonioscopy
- 2. Definitions
 - a. Angle closure
 - b. Angle Closure Glaucoma
- 3. Classification
 - a. Primary Angle Closure Glaucoma
 - b. Secondary Angle Closure Glaucoma
- 4. Common Dynamic Influences
 - a. Iris Dilation
 - b. Lens Accommodation
 - c. Thickness
 - d. Volume
 - e. Variable Iris-Lens Morphology
 - f. Variable Lens Position
 - g. Choroidal Swelling
- 5. Classic Treatment Strategies for Acute Angle Closure
 - a. Topical therapeutic agents
 - b. Systemic therapeutic agents
 - c. Laser peripheral iridotomy
- 6. Other Treatment Options for Acute Angle Closure

- a. Argon laser peripheral iridoplasty
- 7. Preventing Recurrence and Managing Chronic Angle Closure
 - a. Does LPI prevent chronic disease?
 - b. The role of lens extraction





	P	ACG	
World Region	Prevalence	Number	US Caucasians: 3.8% over the age of 55 have occludable a
Asia	1.09 (0.43-2.32)	15.47 (6.26-32.41)	Framingnam Study, Surv Opnthalmol 1980;24(sup)
Africa	0.60 (0.16-1.48)	1.26 (0.34-3.30)	Meta analysis of angle closure glaucoma prevalence studies
Europe	0.42 (0.13-0.98)	1.41 (0.43-3.37)	preformed in "European derived" populations
North America	0.26 (0.03-0.96)	0.39 (0.04-1.38)	
Latin America and	0.85 (0.14-3.00)	1.59 (0.31-5.24)	
the Caribbean			-PACG in 50–59 year olds: 0.60%
Oceania	0.35 (0.05-1.15)	0.05 (0.01-0.16)	-PACG in 60-69 year olds: 0.20%
Worldwide	0.50 (0.11-1.36)	20.17 (7.39-45.86)	
			-PACG IN 70+ year olds: 0.94%
nce based estimation of an	ale closure alaucom	a prevalence by continer	Day. Br J Ophthalmol 201
s over aged 40	gio olocaro giadooni		
			Study of US angle closure glaucoma prevalence in Ca
on projections, Asia accor	unted for 76.7% of th	e worlds ACG in 2013	based on diagnostic coding found a rate of 1.35% ove
			age of 40
			Ophthelmology 2011:11



Differences in Rates of Glaucoma among Asian Americans and Other Racial Groups, and among Various Asian Ethnic Groups









While doing gonioscopy... It is decision After assessing most posterior structure visible 67 year old hyperopic white feet Perform compression gonioscopy: -Are angles narrow due to irido-trabecular contact or synechiae? -During compression, is there a "Double Hump" Sign? -Are there any abnormalities in the narrow angle? Image: Are there any abnormalities in the narrow angle? Image: Image

It is decision time!! 67 year old hyperopic white female with mild cataract Narrow van Herick estimation No posterior TM visible gonioscopically All irido-trabecular touch, no synechiae IOP: 16/16 What is the next step in your examination / management? IOP is fine, so continue on with dilated comprehensive examination? Don't dilate because of narrow angles, but get good look at nerve? Refer for consideration of a angle structure altering intervention?



Let's start with angle closure basics

Angle Closure Definitions:

Angle Closure:

Disorder of ocular anatomy characterized by closure of the drainage angle by appositional or synechial approximation of the iris against the trabecular meshwork blocking aqueous outflow

Angle Closure Glaucoma:

Common result in related anatomical disorders. The IOP is elevated secondary to blocked aqueous outflow resulting in glaucomatous optic neuropathy





Tello. Semin Ophthalmol 2002;17(2):69 89

Only Spending 2 Slides on "Acute" PAC



Treatment for Acute AC: Get the IOP down and cornea clear

Topical Medications:

- beta-blocker
- topical carbonic anhydrase inhibitor
- topical alpha agonist (Iopidine)
- topical steroid (optional for inflammation) Pilocarpine?

Laser Peripheral Iridotomy (LPI)

Oral Medications:

acetazolamide/methazolamide

Oral Hyperosmotics

Anterior Chamber Paracentesis



Pupillary Block Primary Angle Closure

The "Primary" Mechanism for Primary Angle Closure:

Mechanism that accounts for the vast majority of primary angle closure Anatomically narrow anterior chamber Relative pupillary block results in intolerable pressure differential

Peripheral iris bows forward resulting in angle closure





What is unique about angle closure eyes?

Patients with Primary Angle Closure (PACS):					
Narrow central anterior chamber depth					
Increased lens thickness					
Greater anterior lens vault					
Short axial length					
Thickened sclera					
Smaller corneal diameter (limbus to limbus)					
Thicker iris that retains/gains large volume with dilation					

Tello. Seminars in Ophthalmology 2002; 17(2):69-78. Celeste. Invest Ophthalmol Vis Sci 2013;54:5281-5286.

What is unique about angle closure eyes? Why should I get the laser? Lens 129 PACS followed for mean of 2.7 years without LPI: ACW 121 White, 6 Black, 2 Asian 6% had acute PAC attacks 13% developed chronic PAS 19% overall risk of PAC in ~3 years Wilensky. Am J Ophthlamol 1993; 115: 338. Narrow central anterior chamber depth 50 Asian Indian PACS initially classified and then reexamined 5 Increased lens thickness years later showed a 22% progression rate to PAC Greater anterior lens vault Thomas. Br J Ophthalmol 2003;87:450. Short axial length Preferred Practice Patterns of the AAO cites 25% of PCS will develop Thickened sclera PAC within 5 years (2010) Smaller corneal diameter (limbus to limbus) aao.org Thicker iris that retains large volume with iris dilation Frustratingly, we only know a few patient characteristics that predict who will be this 20-25% Celeste. Invest Ophthalmol Vis Sci 2013;54:5281-5286.





More than just the position of the iris: The thickness Increased iris thickness and association with primary angle closure glaucoma B-S Wang,^{1,2} A Narayanaswamy,¹ N Amerasinghe,¹ C Zheng,¹ M He,³ Y-H Chan,⁴ M E Nongpiur,¹ D S Friedman,⁵ T Aung^{1,4} Customized AS-OCT programs were used to measure the thickness of the iris at a distance of 750 and 2000 um from the scleral spur Irises of angle closure glaucoma patients, fellow eyes of patients with acute angle closure, and normal patients were measured Irides in angle closure glaucoma patients and fellow eyes of acute angle closure patients were statistically thicker than in normals

Br J Ophthalmol 2011,95:46--50. doi:10.1136/bjs.2009.178129

More than just the Thickness: The dynamic volume



Theory: Cross sectional area of the iris decreases with pupillary dilation

The irises of AC eyes have a much smaller change in cross sectional area with pupillary dilation compared to OAG and OAG suspect irises

Quigley. J Glaucoma 2009;18(3):173-9









Dynamic influences: Choroidal swelling



Dynamic influences: Choroidal swelling





Dynamic influences: Choroidal swelling

Once exiting the choroidal vessels, proteinaceous fluid must diffuse through sclera to reenter circulation

Unique anatomy of AC eyes:

- Thickened sclera decreases rate of diffusion
- Shorter axial length decreasing scleral surface area for diffusion

End Result:

Unique anatomy of AC eyes leads to prolonged uveal swelling



Quigley. J Glaucoma 2003; 12: 167-180.

Dynamic influences: Choroidal swelling

Does uveal swelling occur in normal eyes?

<u>YES!:</u>

- During increases in choroidal arteriole pressure
- During elevations in choroidal venous pressure (valsalva)
- When there is a change in vascular permeability to protein (Mechanism of angle closure when taking sulfa meds)



Quigley. J Glaucoma 2003; 12: 167-180.

A quick note about medications and PAC

	[normai eye
	Eye drops	Mydriatics	Phenylephrine, tropicamide, atropine, homatropine, cyclopentolate		Q2/
	Local drugs	In the anterior chamber	Acetylcholine, carbachol	Sulfa-Derived Meds are Common	- ZA
		Intranasal Periocular	Ephedrine, naphazoline, cocaine Botulinum toxin	Topiramate Zonisamide	-0
		Aerosolized drugs	Salbutamol, albuterol, terbutaline, ipratropium bromide, atropine [52]	Hydrochlorothiazide (HCTZ) Metolazone	
	Systemic drugs	Vegetative nerve system drugs	Ephedrine, epinephrine (adrenaline)	Triamterene and HCTZ Spiranolacone and HCTZ	
	Ŭ	Anticoagulants	Heparin, warfarin, enoxaparin	Atenolol and chlorothalidone	
		Central nerve system drugs	Topiramate, amphetamines, some antidepressant agents	Lisinopril and HCTZ Enalaoril and HCTZ	
		Diuretics	Acetazolamide, hydrochlorothiazide	Losartan and HCTZ	
		Other drugs	Cotrimoxazol, histamine H1 and	Valsartan and HCTZ	
			H2 receptor antagonists	Furosemide	-Iris dilation (darkne
	Lee e	et al. Clin Exp Opht	halmol 2007;35:55-58.	Acetazolamide	-Iris lens channel dy
	/ /			Methazolamide	
Г	N / + -			Glinizide	-Lens accommodatio
	ivieas tr	iat dilate p	upils or influence	Glimepiride	Choroidal swelling/I
	choroid	al swelling	can facilitate PACI	Glyburide	-Meds that affect pu
<-		aromoning	carriacintato ritor	Sulfadiazine Sulfamethoxazole/trimethoprim	
			Lachkar and Bouassida	Cur Opin Ophth 2007 18: 129-133	
				bur opin opini 2007, 10. 123-133.	



Events that occur daily and without consequence in



Surv Ophthalmol 1987;32:171 177 Neodymium:YAG Laser Iridotomy MICHAEL V. DRAKE, M.D.

Department of Ophthalmelegy, University of Colifernia at Son Francisco, San Francisco, California

Common Con	nplicat	ions:									
Transient elev	ated I	0P: (2	25 40	%)							
- Usually 1-3 hours after laser application											
Press	ure can	get as	high a	s 50-60) mmHg						
Pigment liberation? Shockwave damage to TM?											
Mild anterior o	hamb	er rea	action	(~10%	%)	Rar	e Cor	nplica	tions	(< 1%	<u>,</u>
						Ante	rior len	s caps	ular dan	nage	
						Corn	ieal epi	thelial <i>i</i>	endoth	ielial bur	ns
						Blee	ding fro	om <mark>i</mark> rido	otomy si	te	
						Retir	nal burr	าร			

How much is my risk reduced with laser?

What is the risk of going from PACS to PAC or PACG?

- 469 eyes of phakic Caucasian followed for minimum of 2 years after LPI
 None of the subjects had an acute and extremely high IOP (AC attack)
- At 10 years, IOP increased in 38.7% with 17.3% required medication

Blondeau. Can J Ophthalmol 2011;46:247-53

What is risk of going from PACS to acute PAC or PACG? Fellow eyes of PACG, low risk Caucasian American patients (n = 20) PACS treated with LPI and followed up for mean of 53 months

None of the PACS patients developed extremely high IOP or PACG

Robin. Arch Ophthalmol 1982;100:919 923.

How much is my risk reduced with laser?

What is risk of going from PAC\$ to PAC or PACG?

- Higher risk Mongolian population (n = 74)
- PACS treated with LPI and reexamined mean of 35 months later
- None of PACS subjects had signs of acute PAC or developed PACG

Nolan. Br J Ophthalmol 2000;84:1255 1259

What is risk of going from PACS to PAC?

- Higher risk Asian Indian population (n=82)
- None of the PACS patients had acute PAC or raised IOP

29% developed synechiae

Ramani. J Glaucoma 2009;18:521 527

LPI dramatically reduces the risk of "acute PAC

LPI reduces but doesn't eliminate the risk of progression to chronic PAC or PACG



Plateau Iris Configuration/Syndrome

Peripheral iris turns sharply to insertion

Inserts medially CB reducing or eliminating the ciliary sulcus Flat central iris plane

Anteriorly positioned or rolled ciliary body may be present

Relatively deep central anterior chamber angle compared to peripheral angle

Can have components of pupillary block, but narrow peripheral angle persists after LP

"Double hump sign on gonioscopy"





Plateau Iris Configuration

More common in females							
Inheritance is autosomal dominant							\backslash
Peak incidence is 30-50 years of age (compared to 60s for pupillary block)							k) 人
Common in Chinese and Southwest Asia: Found in 10% of Chinese population Found for 32.3% of patients > 50 years referred for LPI in Singapore Found in 30% of Chinese AC and ACG eyes and 60% of PACS							
Uncommon in Europe/United States: Found in 22% of Swiss < 60 years with Rare in US population but found in ~50	r <mark>ecurr</mark> ס% of p	ent I atier	PAC a	after 50 y	LPI ears	with [PAC
KORINA CAR COM	-		htholmo	logy 200	7.114.1	E12 1E10	
<u>Think Plateau Iris:</u>		He. Op	intraimo	logy 200	7;114:1	513 1519	
-Young patients with PAC		Kumar	. Ophtha	Imology	2009;12	27:1269-12	72
Ritch. Ophthalmol 2003		110:18	80-1889				
- Angle closure after patent LPI					15:430-434		
Southoastorn Asian doscont							





Ritch. Ophthalmology 2004;111:104-108





Irido-trabecular contact (ITC) can lead to permanent angle closure (synechiae) and possible elevated IOP or glaucoma Alward. Color Atlas of Gonioscopy

C	AG laser iridotomy treatment for primary angle losure in east Asian eyes
G	'inifred P Nolan, Paul J Foster, Joe G Devereux, Davaataeren Uranchimeg, orden J Johnson, Jamyatiav Baaanhu Br J Ophthalmol 2000; 84:1255-1259
ubj	ects treated with LPI were reexamined at median of 35 months
РIс	onsidered to be a failure if severe glaucoma developed
5%	of failures occurred in eyes grouped as PAC or PACG at baseline
	Laser peripheral iridotomy across the spectrum of primary angle closure
	Surinder Singh Pandav, MD. Sushmita Kaushik, MD. Rajeev Jain, MD. Reema Bansal, MD. Amod Genera, MD.
	Tatitizes Samples Contra

Better evidence is on the way!

Design and Methodology of a Randomized Controlled Trial of Laser Iridotomy for the Prevention of Angle Closure in Southern China: The Zhongshan Angle Closure Prevention Trial Watter Jung: Devid S. Friedman,⁹ Mingguang He,¹⁹ Shengsong Huang, ¹ Xar ZAP Trial Prospective study of 870 asymptomatic PACS randomized to LPI or observation Three year follow up to determine if LPI is effective in stopping progression to PAC and PACG Results pending

Better evidence is on the way!

The effectiveness of early lens extraction with intraocular lens implantation for the treatment of primary angle-closure glaucoma (EAGLE): study protocol for a randomized controlled trial

Newly diagnosed PAC with high IOP or PACG and age greater than 50

Randomized to clear lens extraction or standard therapy (LPI First)

Planned three year follow-up

Results pending

Azuara Blanco. Trials 2011;12:133

PACS/PAC need routine follow-up despite LPI!!

Follow-up:

- Intraocular pressure measurement
- Gonioscopy looking for progressive narrowing
- Optic nerve assessment
- Possibly OCT of RNFL and periodic visual field testing

Elevated IOP with stable angles may mean intervention:

-Topical medications / glaucoma filtration surgeries

Progressive closure further angle structure altering treatments :

-Laser peripheral iridoplasty

-Consideration of cataract surgery (2nd line in certain scenarios)







Andrew B Mick, OD, FAAO San Francisco VA Medical Center

San Francisco VA Medical Center Eye Clinic (112-A) 4150 Clement St San Francisco, California, CA 94121 415-221-4810 x 4606 (Office), 415-378-0028 (Cell) andrew.mick@va.gov

EDUCATION

1993-1997	University of Michigan, Ann Arbor. Bachelors of Science in Biology
1997-2001	University of California, Berkeley. Doctorate of Optometry
2001-2002	Bascom Palmer Eye Institute University of Miami, Department of Ophthalmology Optometric Residency in Ocular Disease

EMPLOYMENT

1995-1997	Kellogg Eye Center, University of Michigan, Department of Ophthalmology Glaucoma/Molecular Biology Research Assistant Principle Investigator: Julia E. Richards, Ph.D.
2002-2004	Meredith Morgan Eye Center, University of California Berkeley Clinical Faculty, School of Optometry
2002-Present	San Francisco VA Medical Center Staff Optometrist (2002-Present) Optometry Student Externship Coordinator (2002-2012) Optometric Residency Coordinator (2012-Present)

FACULTY APPOINTMENTS

2002-Present	University of California, Berkeley, School of Optometry Associate Clinical Professor
2007-Present	University of California, San Francisco, Department of Ophthalmology Associate Clinical Professor

HONORS AND AWARDS

2000	Harris Family Scholarship
2000	California Optometric Association Junior Leadership Award
2001	Thal/VSP Excellence in Primary Care Award
2001	Vision West Annual Scholarship

1

2001	Vistakon Award of Contact Lens Excellence
2001	Robert Gordon and Andrea Silvers Award
2001	William Feinbloom Low Vision Award
2001	Medical Eye Services Award
2001	University of California, Berkeley, Gold Retinoscope Award
2003	American Academy of Optometry Fellowship
2004	San Francisco VA Medical Center, Service and Patient Care Award
2012	Bernard Dolan Residency Mentor of the Year Award

BOOK CHAPTERS

- Mick AB. Lacrimal disorders. In Onofrey B, Skorin L, Holdeman N (Editors). Ocular Therapeutics Handbook: A Clinical Manual 2rd Edition 2005. Philadelphia: Loppincott, Williams, Wilkins.
- 2. Mick AB. Ocular Trauma. In Onofrey B, Skorin L, Holdeman N (Editors). Ocular Therapeutics Handbook: A Clinical Manual 2rd Edition 2005. Philadelphia: Loppincott, Williams, Wilkins.
- 3. Mick AB. Lacrimal disorders. In Onofrey B (Editor). Ocular Therapeutics Handbook: A Clinical Manual 3rd Edition 2011. Philadelphia: Loppincott, Williams, Wilkins.
- 4. Mick AB. Ocular Trauma. In Onofrey B (Editor). Ocular Therapeutics Handbook: A Clinical Manual 3rd Edition 2011. Philadelphia: Loppincott, Williams, Wilkins.

PEER REVIEWED PUBLICATIONS

- 1. Othman MI, Sullivan SA, Skuta GL, Cockrell DA, Stringham HM, Downs CA, Fomes A, Mick AB, Boehnke M, Vollrath D, Richards JE. Autosomal dominant nanophthalmous (NN01) with high hyperopia and angle closure glaucoma maps to chromosome 11. *Am J Hum Genet* 1998;63:1411-1417.
- 2. Mick AB, Gonzalez S, Dunbar MT, McSoley JJ. A cost analysis of the prostaglandin analogs. Optometry 2002;73(10):614-619.
- 3. Tsou-Chong J, Mick AB. Choroidal metastasis: Case reports and review of the literature. *Optometry* 2005;76(5):293-301.
- 4. Hicks D, Mick AB. Recurrent conjunctival hemorrhage leading to the discovery of ocular adnexal lymphoma. *Optometry* 2010;81(10):528-32.
- 5. Harrison WW, Bearse MA, Schneck ME, Wolfe BE, Jewell NP, Barez S, Mick AB, Dolan BJ, Adams AJ. Prediction by retinal location of the onset of diabetic macular edema in patients with nonproliferative diabetic retinopathy. *Invest Ophthalmol Vis Sci* 2011;52(9):6825-6831.
- 6. Guan H, Mick A, Porco T, Dolan BJ. Preoperative factors associated with IOP reduction after cataract surgery. *Optom Vis Sci* 2013;90(2):179-184.

PEER REVIEWED POSTERS

- 1. Carlson PE, Mick AB, McNamara NA, Fleiszig SMJ. Hypoxia protects human corneal epithelial cells from killing by cytotoxic P. Aeruginosa. ARVO, 2000.
- 2. Tran T, Mick A, Dolan B. Posterior segment complications of interferon therapy for chronic hepatitis C. American Academy of Optometry; Dallas 2003.
- 3. Fong C, Chen M, Mick A. Ocular side effects with reduced vision from high dose, long term chlorpromazine treatment. American Academy of Optometry; San Diego 2005.
- 4. Yoshiyama K, Mick A, Dolan B. Corneal crystal deposits secondary to multiple myeloma. American Academy of Optometry; Denver 2006.
- 5. Wong A, Dolan B, Mick A. Visual loss as the only presenting symptom in a patient with AIDSassociated progressive multifocal leukoenchephalopathy. American Academy of Optometry; Tampa 2007.
- 6. Tobin L, Dolan B, Mick A. Idiopathic intracranial hypertension presenting as symptomless unilateral optic disc edema. American Academy of Optometry; Tampa 2007.
- 7. Hicks D, Mick A. Ocular adnexal lymphoma presenting as recurrent subconjunctival hemorrhage. American Academy of Optometry; Orlando 2009.
- 8. Bedwell A, Mick A. Spectral domain OCT in four patients with adult onset foveomacular vitelliform dystrophy. American Academy of Optometry; Boston, MA 2011.
- 9. Jones H, Mick A. Expanding the differential diagnosis of papilloedema: Ruling out cerebral venous thrombosis. American Academy of Optometry; Boston, MA 2011
- Flettner J, Mick A, Dolan B. Federal aviation (FAA) vision requirements: What are your responsibilities when a pilot develops a disqualifying visual condition? American Academy of Optometry; Phoenix, AZ 2012
- Meadows J, Bahn M, Mick A. Antibiotic therapy in anticoagulated patients with risk factors for community associated methicillin-resistant Staphylococcus aureus. American Academy of Optometry; Seattle, WA 2013.

NON-PEER REVIEWED PUBLICATIONS

- 1. Mick AB. A revolution at Berkeley. *California Optometry* 1999;26(6):21.
- 2. Mick AB. A cancer patient's vision declines. Review of Optometry 2002;139(2):101-102
- 3. Mick AB. Book Review: Imaging the eye from front to back with RTVue fourier domain optical coherence tomography. *Optom Vis Sci* 2011;88:781.
- 4. Mick AB. Book Review: Cataracts: A patient's guide to treatment. Optom Vis Sci 2012;89(10).

5. Chen-Lynch M, Mick AB. Nonnecrotizing anterior scleritis mimicking orbital inflammatory disease. *Clin Optom* 2013;5:29-37.

NATIONAL PROFFESSIONAL APPOINTMENTS

1999	American Optometric Association House of Delegates, Student Delegate
2004-2006	American Academy of Optometry Membership Committee
2005-2008	National Board of Examiners in Optometry Part III Examiner
2006-2010	Accreditation Council on Optometric Education Consultant (2006-2008) Team Chair (2009-2010)
2006-2016	American Academy of Optometry, Scientific Program Committee Member (2006-2012) Vice Chair (2012-2014) Chair (2014-2016)
2014-2016	Optometric Glaucoma Foundation Chief Financial Officer
2015-2016	American Academy of Optometry, Awards Committee Member
2015-Present	American Academy of Optometry, Glaucoma Diplomate Program Candidate Mentor

VETERANS AFFAIRS COMMITTEE APPOINTMENTS

2004-2006	Advanced Clinic Access Committee Eye Clinic Representative
2005-Present	Veterans Integrated Service Network 21 Co-Consultant to National Optometry Service
2009-Present	Reusable Medical Equipment Disinfection Committee Eye Clinic Representative
2016 – Present	Direct Scheduling Committee Eye Clinic Representative

ACADEMIC COMMITTEE APPOINTMENTS

1999-2000	University of California, Berkeley, School of Optometry Optometry Student Association President
2000	University of California, Berkeley, School of Optometry ACOE Self Study Committee: Student Education
2000	University of California, Berkeley, School of Optometry Admissions Committee
2002-2006	University of California, Berkeley, Optometry Alumni Association Vice President
2003-2004	University of California, Berkeley, School of Optometry Clinic Advisory Committee
2002-2005	University of California, Berkeley, School of Optometry Faculty Glaucoma Certification Program Instructor
2006	University of California, Berkeley, School of Optometry ACOE Self Study Committee: Resident Education
2006-2008	University of California, Berkeley, School of Optometry Clinical Curriculum Committee
2008	University of California, Berkeley, School of Optometry California State TPA Glaucoma Course Curriculum Committee
2008-2009	University of California, Berkeley, School of Optometry Curriculum Committee
2011-2012	University of California, Berkeley, School of Optometry California State Optometry Glaucoma Certification Course Beta II Course Reviewer Beta III Course Reviewer Examination Question Writer Grand Rounds Facilitator
2012	University of California, San Francisco Department of Ophthalmology Staff Optometrist Search Committee
2014	University of California, San Francisco Department of Ophthalmology San Francisco General Hospital Staff Optometrist Search Committee
2016	University of California, San Francisco Department of Ophthalmology Staff Optometrist Search Committee

EXPERT WITNESS CONSULTING

2012	Montana Fourth Judicial District Court
2012 - Present	Superior Court of the State of California

JOURNALS EDITED

2011-Present	Optometry and Vision Science
	Journal of the American Academy of Optometry
	Associate Topical Editor (2011-2014)
	Editorial Board (2014-Present)

JOURNALS REVIEWED

2004-Present	Optometry and Vision Science Journal of the American Academy of Optometry
2007-2011	Optometry Journal of the American Optometric Association
2013-Present	Journal of General Internal Medicine

INVITED PROFESSIONAL LECTURES

- 1. American Academy of Optometry, Dallas, TX, 2003 Recent large multi-center clinical trials and how they have shaped optometric glaucoma management
- 2. University of California, Berkeley, 2003 Optometry Alumni Association Reunion The ocular ischemic syndrome
- 3. Clinical Educators in Eyecare, San Jose, CA, 2003 Glaucoma treatment: A study driven philosophy
- 4. University of California, Berkeley, 2003 Meredith Morgan Symposium Glaucoma management in optometric practice
- 5. Sacramento Optometric Society, 2003 Integrating recent glaucoma clinical trials into patient management
- 6. San Mateo Optometric Society, 2003 Uveitic glaucoma
- 7. American Academy of Optometry, Tampa, FL, 20004 Seeing the whole picture: Ocular clues to systemic disease

- 8. San Francisco Optometric Society, 2004 Anterior uveitis and the judicious use of steroids
- University of California, Berkeley, 2004
 Optometry Alumni Association Reunion
 Diabetes and the eye: Diagnosis, management strategies, and potential future therapies
- 10. American Academy of Optometry, San Diego, CA, 2005 Evidenced based medicine
- 11. **Tri-County Optometric Society, Santa Barbara, CA, 2005** Central corneal thickness: Its relationship to IOP and glaucoma
- 12. VISN 21 Nurse Practitioners Conference, San Francisco, CA 2005 Ocular emergencies
- 13. American Academy of Optometry, Denver, CO, 2006 Transient ischemic attack
- 14. Kentucky Optometric Association, Louisville, KY, 2006 Current and future AMD treatments Ocular manifestations of systemic disease
- 15. Asian American Optometry Study Group, San Francisco, CA, 2006 Corneal thickness: What is it telling us?
- 16. Vision Expo West, Las Vegas, NV, 2007 Evidenced based medicine A review of the glaucoma medications Central corneal thickness and glaucoma
- 17. American Academy of Optometry, Tampa, FL, 2007 The dilemma of early glaucoma diagnosis Transient ischemic attack
- 18. University of California, Berkeley, 2007 Meredith Morgan Symposium Early glaucoma diagnosis dilemma: Should early diagnosis be followed by treatment?
- 19. Northern California Optometric Society, Chico, CA 2007 Transient ischemic attack Early diagnosis dilemma: Should early diagnosis be followed by treatment?
- 20. American Academy of Optometry, Anaheim, CA, 2008 Vitreous: Friend or Foe? The dilemma of early glaucoma diagnosis
- 21. Santa Clara County Optometry Society, 2008 Transient ischemic attack

- 22. Asian American Optometric Study Group, Berkeley, CA, 2008 Transient ischemic attack
- 23. University of Alabama, Birmingham, 2009 Primary Eye Care Update Vitreous: Friend or Foe? The dilemma of early glaucoma diagnosis Ocular manifestations of systemic disease
- 24. American Academy of Optometry, Orlando, FL, 2009 Vitreous: Friend or Foe? Angle Closure Glaucoma
- 25. Kaiser Foundation Optometric Symposium, Anaheim, CA, 2009 Transient ischemic attack Early glaucoma diagnosis dilemma
- 26. Santa Clara County Optometric Society, 2009 Ocular manifestations of systemic disease
- 27. Northern California Optometric Society, Chico, CA, 2009 Vitreous: Friend or Foe? Ocular manifestations of systemic disease
- 28. American Academy of Optometry, San Francisco, CA, 2010 Angle closure glaucoma The art of writing scientific abstracts The Viagra anterior ischemic optic neuropathy link
- 29. Alameda Contra Costa County Optometric Society, 2010 Ocular manifestations of systemic disease
- 30. Alameda Contra Costa County Optometric Society, 2010 Transient ischemic attack
- 31. Santa Clara County Optometric Society, 2010 Early glaucoma diagnosis dilemma
- 32. American Academy of Optometry, Boston, MA, 2011 The trabecular meshwork The art of writing scientific abstracts
- 33. Wyoming Optometric Association, Cheyenne, WY, 2011
 Angle closure glaucoma
 The vitreous: Friend or Foe
 Ocular manifestations of systemic disease
- 34. San Francisco Optometric Society, 2011 Challenging cases from SFVA

- 35. **Bay Area Optometric Societies, San Jose, CA, 2011** Tales from the trenches
- 36. Southeastern Council of Optometrists (SECO), Atlanta, GA, 2012 Talking TIA The other glaucoma: Angle closure glaucoma Tales from the trenches
- 37. American Academy of Optometry, Phoenix, AZ, 2012 The trabecular meshwork The art of writing scientific abstracts Identifying glaucoma progression clinically
- 38. Santa Clara County Optometric Society, 2012 SFVA grand rounds
- 39. Alameda Contra Costa County Optometric Society, 2012 Angle closure glaucoma
- 40. American Academy of Optometry, Seattle, WA, 2013 The cupped disc: Differentiating between glaucoma and compressive optic neuropathy
- 41. Vision Expo East, New York, NY, 2013 Talking TIA The vitreous: Friend or Foe? Ocular manifestations of systemic disease
- 42. Southeastern Council of Optometrists (SECO), Atlanta, GA, 2013
 VA eye clinic grand rounds
 Current and future trends in AMD
 Ocular manifestations of systemic disease

43. Santa Clara County Optometric Society, 2013 Lessons learned as a malpractice consultant

44. Maine Optometric Association, Freeport, ME, 2013

The trabecular meshwork Lessons learned as a malpractice consultant Ocular manifestations of systemic disease Talking TIA The cupped disc: Differentiating between glaucoma and compressive optic neuropathy

45. **Broward County Optometric Association, Ft. Lauderdale, FL, 2014** Ocular manifestations of systemic disease VA eye clinic grand rounds

46. Vision Expo East, New York, NY, 2014 Retinal manifestations of systemic disease and drugs Talking TIA The other glaucoma: Angle closure

- 47. San Francisco Optometric Society, 2014 Lessons learned as a malpractice consultant
- 48. American Academy of Optometry, Denver, CO, 2014 Ocular Herpes Management: Beyond HEDS OVS author workshop: Preparing a manuscript Glaucoma Special Interest Group Roundtable: Angle closure glaucoma
- 49. Santa Clara County Optometric Society, 2014 Ocular herpes management: Beyond HEDS
- 50. **Redwood Empire Optometric Society, Petaluma, CA, 2015** Ocular herpes management: Beyond HEDS
- 51. Southeastern Council of Optometrists (SECO), Atlanta, GA, 2015 Talking about TIAs The other glaucoma: A closer look at angle closure How to avoid a lawsuit Breakfast with the experts
- 52. Vision Expo East, New York, NY, 2015 Enlarged optic nerve cupping: Differentiating glaucoma from compressive optic neuropathy Lessons learned as a malpractice consultant The other glaucoma: A closer look at angle closure
- 53. Vision Expo West, Las Vegas, NV, 2015 Enlarged optic nerve cupping: Differentiating glaucoma from compressive optic neuropathy Lessons learned as a malpractice consultant The other glaucoma: A closer look at angle closure
- 54. American Academy of Optometry, New Orleans, LA, 2015 Methicillin Resistant Staph Aureus: Ocular manifestations and clinical management
- 55. Association of Lease-Holding Lenscrafters Doctors Meeting, Cancun, Mexico, 2015 Methicillin resistant Staph aureus: Ocular manifestations and clinical management Ocular herpes management: Beyond HEDS
- 56. UC Berkeley Optometry Alumni: 65th Annual Alumni CE Program, Berkeley, CA 2015 Update on the optometric management of angle closure
- 57. Maine Optometric Association, Freeport, ME, 2015 Methicillin resistant Staph aureus: Ocular manifestations and clinical management Ocular herpes management: Beyond HEDS VA Eye Clinic Grand Rounds Retinal manifestations of system disease and drugs
- 58. San Mateo County Optometric Association, San Mateo, CA 2015 Methicillin resistant Staph aureus: Ocular manifestations and clinical management
- 59. Santa Clara County Optometric Society, 2016 Methicillin resistant Staph aureus: Ocular manifestations and clinical management

- 60. San Francisco Optometric Society, 2016 Methicillin resistant Staph aureus: Ocular manifestations and clinical management
- 61. UC Berkeley School of Optometry: Sheldon M. Golden Conference, Berkeley, CA The use of imaging in the diagnosis and management of glaucoma: Where are we? The use of visual fields in the diagnosis and management of glaucoma: Where are we? The surgical management of glaucoma: Where are we? Glaucoma panel discussion
- 62. East West Eye Conference, Cleveland, OH, 2016 The early glaucoma diagnosis dilemma Enlarged optic nerve cupping: Differentiating glaucoma from compressive optic neuropathy The trabecular meshwork: Its role in glaucoma pathogenesis and as a target of therapy The other glaucoma: A closer look at angle closure glaucoma Methicillin resistant Staph aureus: Ocular manifestations and clinical management Ocular herpes management: Beyond HEDS

63. American Academy of Optometry, Anaheim, CA, 2016 Headache disorders that affect the visual system Essentials of peer-review and constructive criticism Best practices for getting published

64. **Maine Optometric Association, Portland, ME 2016** Headache disorders that affect the visual system The early glaucoma diagnosis dilemma VA Eye Clinic Grand Rounds Retinal manifestations of system disease and drugs

INVITED ACADEMIC LECTURES

- 1. University of California, Berkeley, 2000 Course: Optometry 106B Problem based learning facilitator
- University of California, San Francisco, 2002-Present (Recurring) Department of Medicine Differential diagnosis of the acute red eye

Differential diagnosis of the acute red eye Differential diagnosis of painless loss of vision Slit lamp and direct ophthalmoscopy techniques

3. University of California, Berkeley, 2002-2005 Course: 430 Glaucoma clinical trials: What they tell us

Glaucoma chinical trials: what they tell us Glaucoma management: A literature driven philosophy Common and uncommon retinal vascular diseases The pupil: Important clinical indicator Anterior ischemic optic neuropathy Macular degeneration basics Glaucoma medication review Diabetic retinopathy basics

- 4. University of California, San Francisco, 2008 Department of Ophthalmology Grand Rounds Progressive multifocal leukoenchephalopathy
- 5. University of California, San Francisco, 2012 Department of Ophthalmology Grand Rounds FAA guidelines on reporting visual dysfunction
- 6. University of California, San Francisco, 2013 Department of Ophthalmology Grand Rounds Brimonidine associated uveitis
- 7. University of California, San Francisco, 2008-Present (Recurring) Department of Ophthalmology Fundamentals of Ophthalmology Course Basic refraction and lensometry The optics of refraction and retinoscopy Introduction to rigid gas permeable contact lenses Introduction to hydrogel contact lenses Ophthalmic Knowledge Assessment Program (OKAP) Examination Optics Review
- University of California, Berkeley 2011-Present (Recurring) Course: 256 Retinal vascular occlusive disease
- 9. University of California, Berkeley, 2014-Present (Recurring) Old Week 2014 Graduating Class Final Review Clinical Advice to Avoid Malpractice
- 10. University of California, San Francisco, 2014 School of Nursing Ocular disorders: The red eye
- 11. University of California, San Francisco, 2016 Department of Ophthalmology Grand Rounds Topiramate associated ciliochoroidal effusion angle closure
- 12. University of California, Berkeley, 2016 School of Optometry Grand Rounds Methicillin resistant Staphylococcus aureus keratitis

PROFESSIONAL ORGANIZATIONS

American Academy of Optometry, Fellow, 2003-Present National Association of VA Optometrists, 2003-Present American Optometric Association; 2001-2009 Optometric Glaucoma Society, 2013-Present

VOLUNTEER ORGANIZATIONS

Project Homeless Veteran Connect, 2008-2010 Volunteer Optometric Service to Humanity, Costa Rica, Brazil, 2000-2003 Oakland Public Schools, Eyeball dissections in high school science curriculum , 1999-2000

OPTOMETRIC LICENSURE

State of Florida, 2001-2015 (#OPC 3605) State of California, 2002-Present (#11996TPLG) State of Idaho, 2015-Present (#ODP-100330)