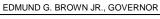


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Continuing Education Course Approval Checklist

Title:

Provider Name:

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

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

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Hollenhorst Plaques		0	6/06/2		: 30 pm
	Course Provide	r Contact Infor	mation 460	Postst SF. CA	94102
Provider Name					
Cynthia	Lieu				
(First)	·	(Last)		(Middle)	
Provider Mailing Address					
Street 2100 Webster St.	City San Francis	sco s	tate <u>CA</u> Zip <u>94</u>	115	
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Do you agree to maintain and to of course content and attendar from the date of course preser	nce as the Board requin	d/or attending es, for a period	licensee such reco I of at least three y	rds ears 12 YES 1	
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EVERETT AI, M.D. Medical Distases of the Macuta, Refina and Vitreous

ARTHUR W. ALLEN, M.D. Medical Diseases and Surgery of the Macula, Refina and Vetreous Comprehensive Ophthalmology

> ANNE E. FUNG, M.D. Medical Diseases of the Macula, Refina and Vitreous Comprehensive Optithaemology

DAVID HEIDEN, M.D. UVITIN COMPREHENSIVE OPHTHAEMOLOGY

DANNY Y. LIN, M.D. Cornial and External Disease Intraiase Lavik Cataract Surgery Comprehensive Opethatmology

EVE E. MOSCATO, M.D. Oculofaciae Plastic Surgery

KAREN W. OXFORD, M.D. Cornial and Anterior Segment Surgery General Ophthalmology

AUGUST L. READER, III, M.D. Nfuro-Ophthalmodogy Cataract Surgery Comprehensive Ophthalmodogy

> STUART R. SEIFF, M.D. Lacrimal and Orbital Surgery Cosmetic Eyelid Surgery

SCOTT C. SO, M.D. Glaucoma Specialine Cataract Surgery Comprehensive Ophthalmology

JENNIFER U. SUNG, M.D. Medical Diseases and Surgery of the Macula, Refina and Vitreous Comprehensive Ophthalmotogy

ALI A. ZAIDI, M.D. Medical Diseases and Surgery of the Macula. Retina and Vereous Comprehensive Ophthalmology

> LAURA INGER, O.D. Comprehensive Optometry

> THOMAS KING, O.D. Comprehensive Optometry

MARY S. KWONG, O.D. Comprehensive Optometry

> TELEPHONE (415) 923-3007

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WEBSITE WWW.PACIFICEYE.COM May 1, 2017

California Board of Optometry 2450 Del Paso Road, Suite 105 Sacramento, CA 95834 (916) 575-7170

To Whom It May Concern:

Please accept my apologies for the late application. We understand that sufficient lead time is needed for the Board to review CE requests and supporting documentation.

The reason why we are submitting this application 35 days instead of the recommended 45 days before the event is because of conflicting schedules. The doctor who is presenting this course (Dr. Jennifer Sung) was away on a business conference and then I was out of the office on a business trip. This miscommunication and scheduling conflict will not occur again in the future.

Pacific Eye Associates plans to host several more CE events this year and in order to avoid this mishap from happening again in the future, I have planned out all future lectures accordingly, making sure there is enough time to submit my CE requests (at least 45 days prior to the event date.)

Sincerely,

lipithiatien

Cynthia Lieu

Hollenhorst Plaques Wednesday, June 7, 2017

Jennifer Sung, MD

Hollenhorst plaques are refractile, orange-yellow, atheromatous emboli in the retinal arterioles that contain cholesterin crystals and originate in the carotid artery or great vessels. They are a marker of significant carotid disease regardless of retinal symptoms. The presence of visual symptoms upon presentation does not increase the risk of death or stroke. Carotid auscultation in patients with Hollenhorst plaques increases the yield in diagnosing asymptomatic patients with significant carotid stenosis. All patients with Hollenhorst plaques, whether symptomatic or asymptomatic, should have a complete medical workup including carotid ultrasonography. Hollenhorst Plaques Wednesday, June 7, 2017

Jennifer Sung, MD

- I. Case Presentation
- II. Clinical signs and symptoms
- III. Examination
 - a. Ocular examination
 - b. Medical examination
- IV. Ancillary Testing
 - a. Optical Coherence Tomography
 - b. Fundus Photography
 - c. Fluorescein angiography
 - d. Carotid Ultrasonography
- V. Risk Factors
- VI. Management
- VII. Review

Case Study M.D.

HPI

- 70 year old man c/o blurred vision OD> OS for several weeks
- MVA in August 2016 with severe whiplash
- Floaters and flashes, OD
- Vision goes grey and darkens for 10 sec to 2 minutes, superior field

Past Medical History

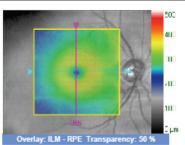
- Denies DM, HTN, CAD, CVA
- Hx of Arthritis, elevated cholesterol, melanoma (s/p excision)
- NKDA
- Former smoker
- Fm Hx of AMD, Glaucoma, DM, CAD, MI, CVA
- Meds: Celebrex, Lovastatin, Gabapentin, baby ASA

Ocular Exam

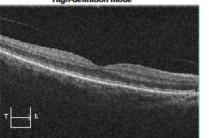
- Va: 20/20 OU
- IOP: 23/20 mm Hg
- Anterior segment: 2+ nuclear sclerosis
- DFE: Drusen OU, ERM OU

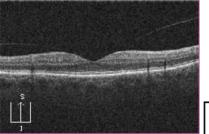
3.14.2017

Macula Thickness : Macular Cube 512x128



High-definition mode

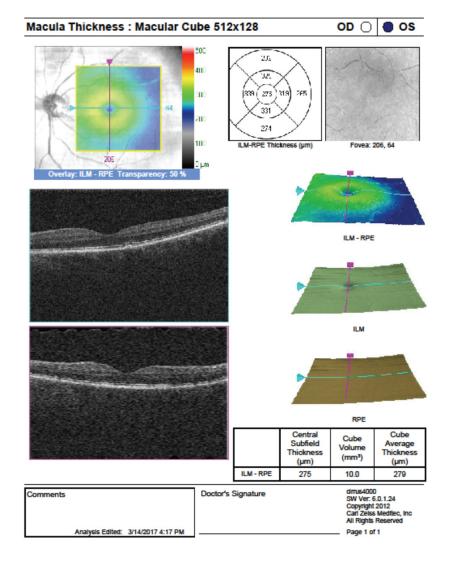




	2
	Central Subfield Thickness

	201	10.1 202
Comments	Doctor's Signature	cirrus4000 SW Ver: 6.0.1.24 Copyright 2012 Carl Zelss Medilec, Inc All Rights Reserved
Analysis Edited: 3/14/2017 4:17 PM		Page 1 of 1

ILM - RPE



OD OS

Fovea: 256, 64

ILM - RPE

ILM

RPE

Cube

Volume

(mm³)

10.4

(µm)

281

Cube

Average

Thickness

(µm)

292

206

w

339

279

ILM-RPE Thickness (µm)

312

327 [2C] 34F

269









More History

Carotid ultrasound: 50-60% occlusion

Treatment

- Continue baby Aspirin.
- Monitor cholesterol level.
- Placed on Betimol BID OD

3.28.2017

- Va sc: 20/25+OU
- IOP: 16/15 mm Hg
- Betimol BID OU
- Patient states the dark area is gone





Hollenhorst Plaques: What is the Risk?

TABLE 1. BASE	ELINE CHARACTEI	RISTICS OF SYMPTO	MATIC
VS ASYMPTOM/	VS ASYMPTOMATIC PATIENTS WITH HOLLENHORST PLAQUES		
BASELINE CHARACTERISTICS	S SYMPTOMATIC (N=60)	ASYMPTOMATIC (N=177)	P VALUE (FISHER EXACT TEST)
Age (years)	70.7 ± 9.5	70.9 ± 9.8	.810
Gender: female/male (%)	21.7 / 78.3	39.0 / 61.0	.018*
BMI (kg/m ²)	29.5 ± 5.0	28.7 ± 7.8	.359
Hypertension (%)	56.7	69.5	.083
Diabetes mellitus (%)	18.3	26.6	.227
Hyperlipidemia (%)	58.3	55.9	.766
Current tobacco use (%)	18.3	14.1	.414
Any tobacco use (%)	74.6	61.6	.084
Coronary artery disease (%)	53.3	40.1	.097
Cerebrovascular disease (%)	23.3	23.7	1.000
Peripheral vascular disease (%)	16.7	19.8	.705
Significant carotid disease (%)	6.7	12.5	.338
Current aspirin use (%)	43.3	62.7	.010*
Current clopidogrel use (%)	1.7	5.1	.459
Current warfarin use (%)	15.0	8.5	.213
Current beta blocker use (%)	33.3	31.6	.873
Current ACE/ARB use (%)	38.3	33.3	.531
Current statin use (%)	33.3	36.7	.756

ACE, angiotensin-converting enzyme inhibitor; ARB, angiotensin receptor blocker; BMI, body mass index. *Statistically significant (P<.05).

Hollenhorst Plaques: What is the Risk?

TABLE 4, CAROTI	D ULTRASOL	ND EVALUATION	RESULTS OF ASYMPTOMATIC
HOLLENHORST	PLAQUE PAT	LIENTS WITH AND	WITHOUT CAROTID BRUITS

MANAGEMENT AND WORKUP	NO BRUIT	WITH BRUIT	P VALUE
	(N=78)	(N=29)	(ONE-WAY ANOVA)
Carotid ultrasound performed (%)	89.7	92.9	1.000
Atherosclerosis on ultrasound (%)	95.7	100.0	.557
Stenosis >40% on ultrasound (%)	18.6	55.6	.0008*
Stenosis >69% on ultrasound (%)	4.3	37.0	.0001*
Carotid endarterectomy (%)	2.6	37.9	<.001*
*Statistically significant (P<.05).			

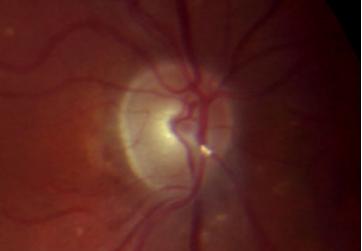
Hollenhorst Plaques: What is the Risk?

VARIABLE	SYMPTOMATIC (N=32)	ASYMPTOMATIC (N=100)	P (FISHER EXACT TEST
Follow-up (months) \pm SD	39.6 ± 22.9	41.3 ± 21.8	.509
Combined visual events % (n)	9.4 (3)	8.0 (8)	.727
Transient ischemic attack (TIA) % (n)	12.5 (4)	7.0 (7)	.461
Stroke % (n)	6.3 (2)	7.0 (7)	1.000
Combined stroke/TIA % (n)	15.6 (5)	13.0 (13)	.769
Carotid endarterectomy % (n)	4.0 (2)	4.3 (7)	1.000
Myocardial infarction % (n)	9.4 (3)	13.0 (13)	.760
Cardiac mortality % (n)	6.3 (2)	8.0 (8)	1.000
All cause mortality % (n)	15.6 (5)	18.0 (18)	1.000
Combined stroke/TIA % (n)	15.6 (5)	13.0 (13)	.769

Take Home Message: Hollenhorst Plaques

- Males > females
- Current ASA use decreases symptoms
- Presence of carotid bruit may indicate stenosis >40%
- No significant difference in follow up vascular events or mortality in symptomatic vs asymptomatic patients (TIA, MI, CEA)
- Notify PCP for urgent follow up when Hollenhorst plaque diagnosed!





CURRICULUM VITAE

JENNIFER UNJOO SUNG

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POSITIONS AND EMPLOYMENT:

2011-present	PACIFIC EYE ASSOCIATES, California Pacific Medical Center San Francisco, CA • Staff Ophthalmologist
2001-2010	WILMER EYE INSTITUTE, Johns Hopkins University School of Medicine, Baltimore, MD Assistant Professor of Ophthalmology, Retina Division
2000-2001	MOORFIELDS EYE HOSPITAL/INSTITUTE OF OPHTHALMOLOGY London, United Kingdom Clinical research fellow in medical retina to Professor Alan Bird
1998-2000	WILLS EYE HOSPITAL, Retina Service Philadelphia, PA USA • Fellow in vitreoretinal diseases
1995-1998	BASCOM PALMER EYE INSTITUTE, University of Miami School of Medicine Miami, FL USA • Resident in ophthalmology
1994-1995	EVANSTON HOSPITAL Evanston, IL USA • Completed internship in preliminary medicine
EDUCATION:	
2005-2008	JOHNS HOPKINS UNIVERSITY CAREY BUSINESS SCHOOL Baltimore, MD • Received M.B.A. in Medical Services Management in May 2008
1989-1994	NORTHWESTERN UNIVERSITY MEDICAL SCHOOL Chicago, IL USA • Received M.D. in June 1994
1986-1989	NORTHWESTERN UNIVERSITY HONORS PROGRAM IN MEDICAL EDUCATION Evanston, IL USA • B.A. in neurobiology and physiology awarded in 1989
1982-1986	FOX CHAPEL AREA HIGH SCHOOL Pittsburgh, PA USA • National Merit Scholar • Pennsylvania Governor's School for the Sciences

RESEARCH EXPERIENCE:

2001-2010	 Wilmer Eye Institute and Department of Neuroscience, Johns Hopkins University with Peter Campochiaro, MD and Solomon Snyder, MD Baltimore, MD Neuroprotective agents in retinal degenerations Oxidative damage in retinal degenerations
2000-2001	 Moorfields Eye Hospital/Institute of Ophthalmology, University College of London with Professor Alan Bird London, United Kingdom Histoclinicopathological correlation of autofluorescence in ocular disorders
1992-1993	 Howard Hughes Medical Institute Research Scholar at the National Institutes of Health in the National Eye Institute/Laboratory of Retinal Cell and Molecular Biology with Gerald J. Chader, Ph.D. Bethesda, MD USA Identification of candidate genes for retinal diseases using subtraction cloning techniques
1990-1992	Neuroscience research with Paul A. Knepper, M.D., Ph.D. at Children's Memorial Hospital Chicago, IL USA • Assessment of arachnoid cell survival on differential substrata <i>in vitro</i>
1989-1990	 Immunology research with Philip Y. Paterson, M.D. at Northwestern University Medical School Chicago, IL USA Immunofluorescent studies of rat spinal cord in Experimental Allergic Encephalomyelitis (EAE)
1988-1989	 Neuroscience research with William Klein, Ph.D. at Northwestern University Evanston, IL USA Effects of retinoic acid and glutamate on synaptogenesis in embryonic chick retina cultures

HONORS AND AWARDS:

- 1990 Northwestern University Baxter Research Award
- 1991 Northwestern University Medical Student Research Award
- 1992 Howard Hughes Medical Institute-National Institutes of Health Research Scholar
- 1997 Florida Society of Ophthalmology, selected to present at Annual Meeting
- 2005 Knights Templar Eye Foundation Research Grant Award
- 2006 NIH K12 Clinician-Scientist Award
- 2007 Foundation for Fighting Blindness Center Grant, Module co-Principal Investigator

PUBLICATIONS:

Oveson BC, Iwase T, Hackett SF, Lee SY, Usui S, Sedlak TW, Snyder SH, Campochiaro PA, **Sung JU**. Constituents of Bile, Bilirubin and TUDCA, Protect Against Oxidative Stress-Induced Retinal Degeneration. *J Neurochem*. 2010 Nov 3.

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Sung JU, Mazuruk K, McCrea N, Chader GJ, and Rodriguez IR. Cloning of a novel cDNA expressed in retina and brain. 1993 *IOVS*. **34**(4): ARVO abstract #541, March 15, 1993.

BOOK CHAPTERS:

Sung J, Ho A. Macular pucker. Chapter in Spaeth (ed) Ophthalmic Surgery 3rd ed.

OTHER PUBLICATIONS:

Sung JU, co-author on ophthalmology and chest/pulmonary sections of emergency medicine guide for palmtop computers. Palmtop Emergency Physician Information Database (PEPID). 1994-97.

PRESENTATIONS:

Sung JU. Is There a Role for Vitrectomy or Pharmacologic Treatment of Abnormal Vitreomacular Adhesions for Diabetic Macular Edema? (2010) What's New in Diabetic Retinopathy and Venous Occlusive Disease, Baltimore, MD

Sung JU. Steroids for Macular Edema in Vein Occlusions (2010) Macula 2010, Baltimore, MD

Sung JU. Steroids for Vein Occlusions: SCORE (2009) What's New in Diabetic Retinopathy and Venous Occlusive Disease, Baltimore, MD

Sung JU. Natural History of Geographic Atrophy (2009) What's New in Age-related Macular Degeneration, Baltimore, MD

Sung JU. Laser management of vein occlusive disease (2008) What's New in Diabetic Retinopathy and Venous Occlusive Disease, Baltimore, MD

Sung JU. Management of geography atrophy (2008) What's New in Age-related Macular Degeneration, Baltimore, MD

Sung JU Neuroprotection and the Retina (2008) Grand Rounds Invited Speaker, UCLA, Jules Stein Eye Institute, Los Angeles, CA

Sung JU. Sustained-release agents for macular edema from venous occlusive disease (2007) What's New in Diabetic Retinopathy and Venous Occlusive Disease, Baltimore, MD

Sung JU. Intravitreal agents and impact on practice management (2007) What's New in Age-related Macular Degeneration, Baltimore, MD

Sung JU. Other therapies for diabetic retinopathy (2006) What's New in Diabetic Retinopathy and Venous Occlusive Disease, Baltimore, MD

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Sung JU. Surgery for vein occlusion (2005) What's New in Diabetic Retinopathy and Venous Occlusive Disease, Baltimore, MD

Sung JU. Surgery for Vein Occlusion (2004) What's New in Diabetic Retinopathy and Venous Occlusive Disease, Baltimore, MD

Sung JU Neuroprotection and the Retina (2004) Grand Rounds Invited Speaker, Clevelend Clinic Foundation, Cole Eye Institute, Cleveland, OH

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Sung JU. Treatment of Age-related Macular Degeneration. (2004) JCAHPO, New Orleans, LA

Sung JU Surgery for vein occlusions. (2003) Current Concepts in Ophthalmology, Baltimore, MD

Sung J, Okoye G, Zimmer J, Gehlbach P, Deering T, Nambu H, Hackett S, Melia M, Esumi N, Zack DJ, Campochiaro PA. Increased expression of brain-derived neurotrophic factor preserves retinal function and slows cell death from rhodopsin mutation or oxidative damage. (2003) ARVO, Fort Lauderdale, FL

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Sung JU. New treatments for macular edema. (2001) Current Concepts in Ophthalmology, Baltimore, MD

Sung J, Federman J. Silicone oil in the management of pediatric traumatic retinal detachments. (2000) Fifth International symposium for ocular trauma. Montreal, Canada.

Sung J, Tasman W. (1999) Fluorescein angiography of macular changes in neonates with retinopathy of prematurity. Retina Society, Maui, HI

Sung J, Flynn H, Jr, Ehlies F. (1998) Etiology and echographic features of choroidal folds. Bascom Palmer Eye Institute 34th Annual Residents' Days, Coral Gables, FL.

Sung J, Rubsamen P, Murray T, Smiddy W, Rosenfeld R, Feuer W, and Flynn H, Jr. (1997) Outcomes in subfoveal surgery for subretinal neovascular membranes. Bascom Palmer Eye Institute 33rd Annual Residents' Days, Coral Gables, FL.

Sung J, Lam B, Curtin V, Rosa R, Tse D, Schatz N, and Jillapalli D. (1997) Unilateral visual loss in metastatic gastric carcinoma to the optic nerve. Frank A. Walsh Society Meeting, Baltimore, MD.

Sung J, Aaberg T, Jr, and Lewis M. (1996) Clinical course of juxtafoveolar retinal telangiectasis-related neovascular membranes. Bascom Palmer Eye Institute 32nd Annual Residents' Days, Coral Gables, FL.

CLINICAL TRIALS:

- Co-Investigator Diabetic Retinopathy Clinical Research Network
- Co-Investigator Ranibizumab for Diabetic Macular Edema
- Co-Investigator Ranibizumab for Venous Occlusive Disease
- Co-Investigator The Genetics of Macular Degenerations
- Co-Investigator Safety and Efficacy of VEGF-trap in Patients with Exudative Age-Related Macular Degeneration
- Co-Investigator Safety and Efficacy of Combretastatin in Patients with Exudative Age-Related Macular Degeneration
- Co-Investigator Safety and Efficacy of Intravitreal Injections of RhuFab in Patients with Exudative Age-Related Macular Degeneration
- Co-Investigator Safety and Efficacy of Intravitreal Injections of EYE001(Anti-VEGF Pegylated Aptamer), in Patients with Exudative Age-Related Macular Degeneration

Co-Investigator - Supplemental Inspired Oxygen

Co-Investigator - Study of ADgvPEDF.11D in Neovascular AMD

Co-Investigator - Oculex - Trial to Assess the Safety and Efficacy of Dexamethasone Posterior Segment Drug Delivery System (DEX PS DDS) in the treatment of PME

TEACHING EXPERIENCE:

Johns Hopkins University School of Medicine – Medical students' lectures, tutorials, elective clerkship rotations

Wilmer Eye Institute – Ophthalmology residents' lectures, clinical rotations, vitreoretinal fellows' teaching conferences, clinical and surgical rotations

Greater Baltimore/Washington, DC Metroplitan area – Patient-oriented lectures on retinal diseases including age-related macular degeneration and diabetic retinopathy.

ADMINISTRATIVE EXPERIENCE:

2001-2004 Medical Director, Wilmer Eye Institute at Rockville. Experience with growing a retina practice in a satellite location, hiring and training staff and other administrative duties.

BOARD CERTIFICATION:

1999 American Board of Ophthalmology2009 ABO recertification

MEDICAL LICENSURE:

California Maryland (inactive) Pennsylvania (inactive) Florida (inactive)

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

1997-presentAmerican Academy of Ophthalmology2000-presentAssociation for Research in Vision and Ophthalmology2001-presentAmerican Society of Retina Specialists2006-presentThe Retina Society1998-2001Pennsylvania Academy of Ophthalmology1995-98Miami Ophthalmological Society1993-94Phi Rho Sigma

EDITORIAL BOARD:

Ophthalmology, Ad Hoc Reviewer Archives of Ophthalmology, Ad Hoc Reviewer

ACTIVITIES and INTERESTS:

Piano, flute, and voice Traditional Korean dance, ballet, contemporary Travel, international cuisine, reading, swimming, tennis Foreign languages: Korean, French, and Spanish

MARITAL STATUS:

Spouse, Sherwin Hua, M.D., PhD., Neurosurgeon, Neurosurgical Associates of Los Angeles

CHILDREN:

Alexa Hua, age 6 years Ava Hua, age 3