



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 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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CONTINUING EDUCATION COURSE APPROVAL APPLICATION

\$50 Mandatory

Pursuant to California Code of Regulations (CCR) § 1536, the Board will approve continuing education (CE) courses after receiving the applicable fee, the requested information below and it has been determined that the course meets criteria specified in CCR § 1536(g).

In addition to the information requested below, please attach a copy of the course schedule and topical outline of the subject matter. Applications must be submitted 45 days prior to the course presentation date.

Please type or print clearly.

Course Title <u>STAR WARS: 60 ROGUE</u> <u>Rogue Diagnosis: Case presentations</u>	Course Presentation Date <u>7:45 AM - 11:35 AM</u> [1][2]/[1][2]/[20][16]
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Course Provider Contact Information

Provider Name <u>Coastal Vision Medical Group</u> <u>Gina</u> (First) <u>Valdemar</u> (Last) _____ (Middle)
Provider Mailing Address Street <u>223 S. Main St. #100</u> City <u>Orange</u> State <u>CA</u> Zip <u>92660</u>
Provider Email Address <u>gina.valdemar@coastal-vision.com</u>
Will the proposed course be open to all California licensed optometrists? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Do you agree to maintain and furnish to the Board and/or attending licensee such records of course content and attendance as the Board requires, for a period of at least three years from the date of course presentation? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Course Instructor Information

Please provide the information below and attach the curriculum vitae for each instructor or lecturer involved in the course. If there are more instructors in the course, please provide the requested information on a separate sheet of paper.

Instructor Name <u>Dan</u> (First) <u>Tran</u> (Last) <u>B</u> (Middle) <i>see attached list of additional speakers!</i>		
License Number <u>83738</u>	License Type <u>MD</u>	
Phone Number (M) <u>746-9679</u>	Email Address _____	

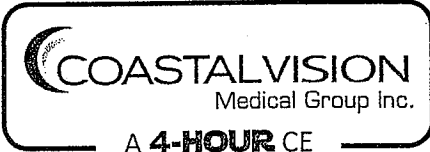
I declare under penalty of perjury under the laws of the State of California that all the information submitted on this form and on any accompanying attachments submitted is true and correct.

[Signature]
Signature of Course Provider

11-5-14
Date



IN A TIME OF CELEBRATION, A GROUP OF UNLIKELY HEROES BAND TOGETHER ON A MISSION TO LEARN MORE ABOUT OPTOMETRY, THEIR CHOSEN WEAPON.



WHEN:
 Sunday, December 18th
 Registration opens at 6:45am
 7:45am-11:35am (4-hour CE followed by the movie)

WHERE:
 AMC Downtown Disney
 Downtown Disney District
 1565 Disneyland Drive
 Anaheim, CA 92802

Hyperdrive of Toys
 Bring any new, unwrapped toy, to benefit Toys for Tots, and receive a movie ticket for you and a guest for Rogue One: A Star Wars Story. Movie to follow CE. Additional tickets available for purchase.



Downtown Disney Parking: First 2 hours are free; additional 2 hours free with AMC validation (Disneyland parking lots may be available for all day parking prices; parking is responsibility of attendee)

For registration information please visit our Affiliate Portal:
coastalvisionmedical.com/site/ces.htm

AGENDA

6:45 am	Check-in (pastries and coffee provided)	
7:45 am	Welcome - Opening Remarks	
7:50 am	Lisa Garbutt, MD	Symfony and Symfony Toric: The Best of Both Galaxies
8:15 am	Jennifer Wu, MD	Corneal Crosslinking "The Lightsaber for Corneal Ectasia"
8:40 am	Raj Rathod, MD	Retina One: A Story of Systemic Discovery
9:05 am	Dan Tran, MD	Combining Laser Corneal Refractive Surgery and Intraocular Lens Technology - The Force Is Strong
9:30 am	Break	
9:55 am	Vincent Hau, MD	Retina Jeopardy...From a Galaxy, Far, Far Away
10:20 am	Betsy Nguyen, MD	MIGS Episode III: Cypass Micro-Stent, A New Hope
10:45 am	Madhu Agarwal, MD	Eye Rebel: Waging War on Orbital Disease
	Dan Tran, MD	
11:10 am	Lisa Garbutt, MD	Rogue Diagnosis: Case Presentations
	Betsy Nguyen, MD	
	Jennifer Wu, MD	
11:35 am	Conclusion	
11:45 am	Movie: <i>Rogue One: A Star Wars Story</i>	

*CE and movie ticket registration is based on first-come, first-served basis. Seating is limited.



November 5, 2016

State Board of Optometry
2450 Del Paso Road, Ste. 105
Sacramento, CA 95834

RE: Late submission of CE course approval; Star Wars: Go Rogue Symposium-Symfony and Symphony Toric; The Best of Both Galaxies, Corneal Crosslinking "The Lightsaber for Corneal Ectasia", Retina One: A Story of Systemic Discovery, Combining Laser Refractive Surgery and Intraocular Lens Technology-The force is strong, Retina Jeopardy, MIGS Episode III: Cypass Micro-Stent, A New Hope, Eye Rebel: Waging War on Orbital Disease, Rogue Diagnosis: Case Presentations.


Dear Practice and Education committee,

I am writing this letter in regards to late submission for the multi-course symposium titled "Star Wars; Go Rogue" scheduled for presentation on 12/18/16. We are just shy of the 45 day submission request, and wanted to include a letter for late submission with our CE approval application.

We continue to work diligently to get all required items to the board needed for CE approval in a timely manner. Due to multiple speakers at the upcoming CE, we had difficulty obtaining all the lectures to meet the submission requirement timeline and would appreciate your consideration of our continuing education approval request.

Please feel free to reach out to us with any other questions. We look forward to continued relations with the State Board of Optometry and the practice and education committee.

Sincerely,



Gina Valdemar
Affiliate Relations and Education Director
Coastal Vision Medical Group
ginavaldemar@coastal-vision.com

Star Wars: Go Rogue 4 hour CE

Course Title: Rogue Diagnosis: Case Presentations

Course Presentation date: 12/18/2016

Speakers: Baothu (Betsy) Nguyen, MD, Lisa Garbutt, MD, Dan Tran, MD, Jennifer Wu, MD

Target Audience: This lecture is intended for optometrist seeking continuing education

Course Description:


This course is compiled of four patient case presentations and panel discussion. Case presentations include: a progressive glaucoma patient with a symptomatic cataract and the treatment options; treatment options of a complex patient with reluctance after a corneal transplant and her complex ocular history; young patient with progressively worsening of regular astigmatism and peripheral thinning of the cornea; progressive vision loss including diagnosis. Panel of surgeons will discuss cases amongst themselves and with attendees.

CE Credit: .50 CE Units

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Reluctance after Corneal Transplant

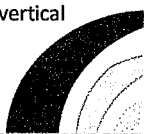
Dan B. Tran, M.D.



Case Presentation

- 76 yo woman
 - Chief complaint: progressive vision loss in left eye
- Ocular History:
 - Automated Lamellar Keratoplasty (ALK) OU x 30 years ago to correct hyperopia
 - After ALK, developed astigmatism, and a 5-mm trapezoidal keratotomy performed on vertical meridian OU


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Case Presentation

- Ocular History Continued...
 - Several years later, developed ectasia OU, treated with RGP contact lenses. As ectasia worsened, patient became intolerant to RGPs.
 - PKP (9-mm) OD to resolve issues and improve vision. Patient suffered several episodes of rejection and eventually graft failed. Currently has vascularized limbus 360° OD

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Topography

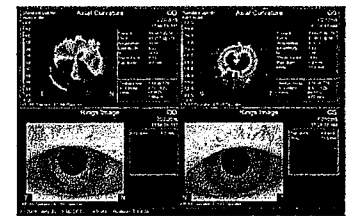



Figure 1. Topography (Atlas 9000 Corneal Topography System; Carl Zeiss Meditec) shows severe irregular astigmatism in both eyes and ectasia in the left eye.


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Case Presentation

- Manifest refraction
 - OD: -9.00+5.00x45 20/400
 - OS: -7.00+2.00x180 20/200
- Dense +3 nuclear sclerotic cataract OS
- Keratometry (K) Readings OS
 - K1: 75.33D/4.48mm @ 4.50°
 - K2: 79.41D/4.25mm @ 135°
- IOL Master calls for -38.00D IOL

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Medical Group Inc.



How do you manage patient?

- Based on patient's previous experience, she does not want to undergo a PKP in her left eye
- How do you manage her complaints regarding her left eye?

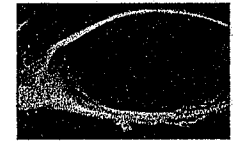



Figure 2. Fluorescein staining of the left eye with slit lamp photography.

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Treatment Plan #1

- Test patient's tolerance for scleral contact lens
- If patient tolerated scleral contact lens, consider performing cataract surgery to avoid potential complications with corneal procedures



Treatment Plan #2

- If patient did not tolerate scleral CL, consider corneal crosslinking and possible topography-guided PRK to reduce irregularity of central cornea
 - Only possible if reproducible topographic measurements can be obtained
 - Patient education regarding risk of corneal haze and progressive ectasia



Treatment Plan #2 continued

- Wait 3 to 6 months before performing cataract surgery
 - Biometry using IOL Master would not be accurate for IOL calculations and selection
 - Patient would likely need high-minus lens (AR40M IOL available in high-minus)
 - Attempt intraoperative aberrometry (ORA), but probably wouldn't be able to capture images



Treatment Plan #3

- Possible 7.75-mm to 8-mm PKP performed first
 - Avoid 9-mm PKP with its associated higher risks of rejection due to proximity to limbus
- DALK could be attempted and converted to a PKP if perforation occurred
- Cataract surgery could be performed 3 to 6 months after PKP
- However, based on patient's experience with her right eye, she most likely would not consent to corneal transplant procedure



DAN B. TRAN, M.D.

Diplomate American Board of Ophthalmology

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709 E. Anaheim St., Long Beach, CA 90813
1310 W. Stewart Drive, Suite 505 , Orange, CA 92868
293 S. Main St., Suite 100, Orange, CA 92660
15825 Laguna Canyon Rd, Suite 201, Irvine, CA 92618
Bus.(714)771-1213 & (949)453-4661 & Cel.(714)609-5559 & Fax.(562)591-1311
E-mail: dantran@coastal-vision.com

P R O F E S S I O N A L E X P E R I E N C E

Dan B. Tran Medical Corporation 709-E. Anaheim St. Long Beach, CA 90813	<i>6/1999 to Present</i>
1310 W. Stewart Drive, Suite 505 293 S. Main St., Suite 100 Orange, CA 92868	<i>7/2005 to Present</i> <i>11/2013 to Present</i>
360 San Miguel, Suite 307 Newport Beach, CA 92660	<i>07/2013 to Present</i>
15825 Laguna Canyon Rd, Suite 201 Irvine, CA 92618	<i>07/2015 to Present</i>

MEDICAL DIRECTOR / PRESIDENT. PRIVATE PRACTICE IN GENERAL OPHTHALMOLOGY, CORNEA AND REFRACTIVE SURGERY. DIRECTOR AND CHIEF SURGEON OF CORNEAL REFRACTIVE LASER EYE CENTER LOCATED ON 293 S. MAIN STREET, ORANGE PROVIDING COMPREHENSIVE REFRACTIVE SURGERY CORNEAL AND INTRAOCULAR LENS BASE. DIRECTOR OF COMPREHENSIVE OPHTHALMOLOGY CLINICS IN LONG BEACH, IRVINE, AND ORANGE.

NVISION Laser Eye Centers / TLC Eye Institute *2007 to 2013* **Institute**
3501 Jamboree Rd., Suite 200B
Newport Beach, CA 92660

Surgeon and Medical Director – Provide cataract and refractive surgery including Multifocal IOLs, femtosecond laser for refractive cataract surgery with intraoperative wavefront aberrometry to the NVISION center in Newport Beach, CA

Coastal Vision Laser Eye Centers *2004 to 2013*
3501 Jamboree Rd., Suite 1100
Newport Beach, CA 92660

Surgeons – Provide refractive surgery including Intacs, Phakic Intraocular lenses, Refractive Lens Exchanges, LASIK with IntraLase and Multifocal IOLs to the NVISION center in Newport Beach, CA

Irvine Vision Institute
16300-Sand Canyon Ave., Suite 504

DAN B. TRAN, M.D.
3/8/16

Irvine, CA 92618

MEDICAL DIRECTOR. PROVIDE ALL MEDICAL AND SURGICAL SERVICES FOR THE IRVINE LASER VISION INSTITUTE. THE INSTITUTE PROVIDES FULL SPECTRUM REFRACTIVE SURGERY SERVICES. EXPERIENCE IN LASIK, PRK, LASEK, INTACS, PHAKIC IOL, INTRALASELASIK, CATARACT SURGERY AND LENS IMPLANTS.

Shiley Eye Center

University of California San Diego

La Jolla, CA 92037

7/1997 to 6/1998

8/1998 to Present

CLINICAL INSTRUCTOR.

PRACTICE IN GENERAL OPHTHALMOLOGY, CORNEA AND REFRACTIVE SURGERY. RESPONSIBLE FOR ALL MANAGED CARE PATIENTS AT UCSD. RESPONSIBLE FOR VA HOSPITAL CORNEA CLINIC. TEACH AND ATTEND RESIDENTS SURGICAL CASES AT THE VA HOSPITAL AND UCSD MEDICAL CENTER.

IBM Corp.

South Coast Division, Costa Mesa, CA;

4/1984 to 5/1989

General Product Division, Tucson AZ;

General Product Division, San Jose, CA

ELECTRICAL ENGINEER. RESPONSIBILITIES INCLUDING TECHNICAL SUPPORT FOR IBM MAINFRAME AND PERSONAL COMPUTERS. DESIGN & SIMULATION & SPECIFICATION AND DEVELOPMENT OF THE FOCUS / TRACKING SERVO AND HIGH FREQUENCY SWITCHING POWER SUPPLIES & AMPLIFIERS FOR DISK DRIVES.

H O S P I T A L A F F I L I A T I O N

St. Joseph Hospital

2005 to Present

Orange, CA

STAFF - OPHTHALMOLOGY

St. Mary Medical Center

8/1998 to Present

Long Beach, CA 90813

STAFF - OPHTHALMOLOGY

E D U C A T I O N / T R A I N I N G

Shiley Eye Center

7/1997 to 6/1998

University of California San Diego

La Jolla, CA 92037

FELLOWSHIP IN CORNEA AND REFRACTIVE SURGERY.

Scheie Eye Institute

7/1994 to 6/1997

University of Pennsylvania

Philadelphia, PA 19104

RESIDENCY IN OPHTHALMOLOGY.

St. Mary Medical Center

7/1993 to 6/1994

UCLA School of Medicine

Long Beach, CA 90813

INTERNSHIP IN INTERNAL MEDICINE

USC School of Medicine

8/1989 to 6/1993

Los Angeles, CA 90033

DOCTOR OF MEDICINE 6/1993

DAN B. TRAN, M.D.

3/8/16

University of Arizona
Tucson, AZ 85721

8/1986 to 12/1987

Stanford University
Stanford, CA 94305
GRADUATE STUDIES IN ELECTRICAL &
BIOMEDICAL ENGINEERING

6/1984 to 12/1985

California State Polytechnic University
Pomona, CA 91768
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING - *MAGNA CUM LAUDE*

8/1980 to 3/1984

R E S E A R C H / P U B L I C A T I O N S / L E C T U R E S

- WHITMANJ, DOUGHERTY PJ, PARKHURST GD, OLKOWSKI J, SLADE SG, HOVANESIAN J, CHU R, DISHLER J, **TRAN DB**, ET AL. TREATMENT OF PRESBYOPIA IN EMMETROPES USING A SHAPE-CHANGING CORNEAL INLAY: ONE-YEAR CLINICAL OUTCOMES. OPTHALMOLOGY. 2016 MAR;123(3):466-75. DOI:10.1016/J.OPHTHA.2015.11.011. EPUB 2016 JAN 27
- IANCHULEV T, HOFFER KJ, YOO SH, CHANG DF, BREEN M, PADRICK T, **TRAN DB**. INTRAOPERATIVE REFRACTIVE BIOMETRY FOR PREDICTING INTRAOCULAR LENS POWER CALCULATION AFTER PRIOR MYOPIC REFRACTIVE SURGERY. OPTHALMOLOGY. 2014 JAN;121(1):56-60. DOI:10.1016/J.OPHTHA.2013.08.041. EPUB 2013 OCT 30.
- TRAN DB**, BINDER PS, BRAME CL. LASIK FLAP REVISION USING THE INTRALASE FEMTOSECOND LASER. INT OPTHALMOL CLIN. 2008 WINTER;48(1):51-63.
- SARAYBA MA, IGNACIO TS, BINDER PS, **TRAN DB**. COMPARATIVE STUDY OF STROMAL BED QUALITY BY USING MECHANICAL, INTRALASE FEMTOSECOND LASER 15- AND 30-KHZ MICROKERATOMES. CORNEA. 2007 MAY;26(4):446-51.
- TRAN DB**, SHAH V. HIGHER ORDER ABERRATIONS COMPARISON IN FELLOW EYES FOLLOWING INTRALASE LASIK WITH WAVELIGHT ALLEGRETTO AND CUSTOMCORNEA LADARVISION4000 SYSTEMS. J REFRACT SURG. 2006 NOV;22(9):S961-4.
- TRAN DB**, SARAYBA MA, BOR Z, GARUFIS C, DUH YJ, SOLTES CR, JUHASZ T, KURTZ RM. RANDOMIZED PROSPECTIVE CLINICAL STUDY COMPARING INDUCED ABERRATIONS WITH INTRALASE AND HANSATOME FLAP CREATION IN FELLOW EYES: POTENTIAL IMPACT ON WAVEFRONT-GUIDED LASER IN SITU KERATOMILEUSIS. J CATARACT REFRACT SURG. 2005 JAN;31(1):97-105.
- ZADOK D, **TRAN DB**, ET AL. PNEUMOTONOMY VERSUS GOLDMANN TONOMETY AFTER LASER IN SITU KERATOMILEUSIS FOR MYOPIA. J CATARACT REFRACT SURG. 1999 OCT;25(10):1344-8.
- TRAN DB**, ZADOK D, SCHANZLIN DJ. INTRAOCULAR PRESSURE MEASUREMENT IN PATIENTS WITH INTRASTROMAL CORNEAL RING SEGMENTS. J REFRACT SURG. 1999 JUL-AUG; 15(4):441-3.
- TRAN, D.B.**, SILVERMAN S.E., ZIMMERMAN, K., FELDON, S.E. (1998). AGE-RELATED DETERIORATION OF MOTION PERCEPTION AND DETECTION. GRAEFE'S ARCH CLIN EXP OPTHALMOL, 236, PP. 269-273.
- TRAN, D.B.**, ET AL. MÖBIUS SYNDROME WITH OCULOMOTOR NERVE PARALYSIS WITHOUT ABDUCENS PARALYSIS. J NEUROOPHTHALMOL. 1998 DEC;18(4):281-83.
- SILVERMAN, S.E., **TRAN, D.B.**, ZIMMERMAN, K.M., FELDON, S.E. (1994). DISSOCIATION BETWEEN THE DETECTION AND PERCEPTION OF MOTION IN ALZHEIMER'S DISEASE. NEUROLOGY, 44, PP. 1814-1817.

DAN B. TRAN, M.D.
3/8/16

- TRAN DB, ARTURO CHAYET, ENRIQUE BARRAGAN, HAI-YEN TRAN.** VISUAL OUTCOMES OF PSEUDOPHAKIC PRESBYOPES IMPLANTED WITH A TRANSPARENT HYDROGEL CORNEAL INLAY. PRESENTATION AT INTERNATIONAL SOCIETY OF PRESBYOPIA MEETING, LONDON, ENGLAND SEPTEMBER 2014; ELECTRONIC POSTER PRESENTATION AT EUROPEAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ESCRS) CONFERENCE, LONDON, ENGLAND 2014.
- TRAN DB, LISA GARBUTT, BETSY NGUYEN, VALENTINA VARGUS.** REFRACTIVE OUTCOMES OF POSTMYOPIC LASIK LENS REPLACEMENT SURGERY UTILIZING TOPOGRAPHICALLY-ESTIMATED MODIFIED MASKET IOL POWER CALCULATIONS. ELECTRONIC POSTER PRESENTATION, EUROPEAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ESCRS) CONFERENCE, LONDON, ENGLAND 2014.
- TRAN DB.** HOW I MANAGE ASTIGMATISM WITH ORA, FEMTOSECOND LASER, AND TORIC IOL PRESENTATION AT AMERICAN EUROPEAN COLLEGE OF OPHTHALMIC SURGEONS (AECOS). SUMMER SYMPOSIUM DEER VALLEY, UTAH JULY 2014
- TRAN DB.** MICROINVASIVE GLAUCOMA SURGERY (MIGS): ISTENT AND HYDRUS. PRESENTATION AT AMERICAN EUROPEAN COLLEGE OF OPHTHALMIC SURGEONS (AECOS). SUMMER SYMPOSIUM DEER VALLEY, UTAH JULY 2014
- TRAN DB.** INTRAOPERATIVE TORIC IOL ROTATION TO MANAGE CORNEAL ASTIGMATISM USING CONTINUOUS REAL TIME DATA STREAMING INTRAOPERATIVE ABERROMETRY. FILM FESTIVAL PRESENTATION AT AMERICAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ASCRS) CONFERENCE, BOSTON, MA APRIL 2014.
- TRAN DB, ARTURO CHAYET, ENRIQUE BARRAGAN, HAI-YEN TRAN.** PSEUDOPHAKIC CORNEAL INLAY TO TREAT PSEUDOPHAKIC PRESBYOPIA. ELECTRONIC POSTER PRESENTATION AT AMERICAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ASCRS) CONFERENCE, BOSTON, MA APRIL 2014.
- TRAN DB.** TORIC IOL OUTCOMES WITH AND WITHOUT ADVANCED INTRAOPERATIVE ABERROMETRY PAPER PRESENTATION AT AMERICAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ASCRS) CONFERENCE, BOSTON, MA APRIL 2014.
- TRAN DB.** KERATOREFRACTIVE AND PRESBYOPIA. SESSION PANELIST. ASCRS CONFERENCE, BOSTON, MA APRIL 2014.
- TRAN DB.** CORRECTING PRESBYOPIA: THE HOLY GRAIL (INLAYS AND NEW TREATMENTS). INVITED LECTURE. ACES/SEE CARIBBEAN EYE MEETING, CANCUN, MEXICO FEBRUARY 2014.
- TRAN DB, ARTURO CHAYET, ENRIQUE BARRAGAN.** EARLY RESULTS IN EYES WITH A HYDROGEL CORNEAL INLAY TO IMPROVE NEAR AND INTERMEDIATE VISION IN PSEUDOPHAKIC PATIENTS. PRESENTATION AT EUROPEAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ESCRS) CONFERENCE, AMSTERDAM, NETHERLAND OCTOBER 2013. PRESENTATION AT ASIAN PACIFIC CATARACT AND REFRACTIVE SURGERY (APACRS) CONFERENCE, SINGAPORE JULY 2013. PRESENTATION AT AMERICAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ASCRS), SAN FRANCISCO, CA APRIL 2013
- TRAN DB.** STEVE BRINT. MULTICENTER EVALUATION OF REFRACTIVE PREDICTABILITY OF INTRAOPERATIVE ABERROMETRY-ASSISTED IOL POWER SELECTION USING STREAMING REFRACTIVE DATA PRESENTATION AT EUROPEAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ESCRS) CONFERENCE ON BEHALF OF STEVE BRINT, MD, AMSTERDAM, NETHERLAND OCTOBER 2013.
- TRAN DB.** COMPARATIVE IOL REFRACTIVE OUTCOMES WITH FEMTOSECOND LASER ASSISTED REFRACTIVE CATARACT SURGERY GUIDED BY INTRAOPERATIVE ABERROMETRY PRESENTATION AT EUROPEAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ESCRS) CONFERENCE, AMSTERDAM, NETHERLAND OCTOBER 2013.

DAN B. TRAN, M.D.
3/8/16

- TRAN DB.** CATARACT SURGERY START TO FINISH: MY TECHNIQUE. INVITED LECTURE AT RESIDENTS CATARACT TRAINING COURSE, CPE OPHTHALMOLOGY PROGRAM, ALCON CAMPUS, DALLAS, TX AUGUST 2013.
- TRAN DB,** STEVE SLADE, ZOLTAN NAGY. SURGICAL EXPERIENCE WITH LENSX FEMTOSECOND LASER FOR LASIK FLAP APPLICATION. ELECTRONIC POSTER PRESENTATION AT APACRS – SINGAPORE, JULY 2013.
- TRAN DB.** KERATOREFRACTIVE AND PRESBYOPIA. SESSION PANELIST. ASCRS CONFERENCE, SAN FRANCISCO, CA APRIL 2013.
- TRAN DB.** THE LENSX FEMTOSECOND LASER: LEADING THE CONTINUUM OF INNOVATION. INVITED LECTURE SPONSORED BY ALCON. HAWAIIAN EYE MEETING, THE BIG ISLAND, HI JANUARY 2013.
- TRAN DB,** STEPHANIE TV TRAN. INTRAOPERATIVE POWER SELECTION AND AXIS ORIENTATION OF TORIC IOL USING A REAL TIME WAVEFRONT ABERROMETER. PRESENTATION AT EUROPEAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ESCRS) CONFERENCE, MILAN, ITALY SEPTEMBER 2012.
- TRAN DB.** COMPARATIVE IOL REFRACTIVE OUTCOMES WITH FEMTOSECOND LASER ASSISTED REFRACTIVE CATARACT SURGERY. PRESENTATION AT EUROPEAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ESCRS) CONFERENCE, MILAN, ITALY SEPTEMBER 2012. PRESENTATION AT AMERICAN ACADEMY OF OPHTHALMOLOGY (AAO-ISRS) CONFERENCE, CHICAGO, IL NOVEMBER 2012.
- TRAN DB.** 1) ACRYSOFT PLATFORM – BIOMECHANICS, BIOMATERIALS, BLUE LIGHT FILTRATION; 2) BIOMETRY: NAILING THE REFRACTION: STRATEGIES FOR SUCCESSFUL OUTCOMES; 3: CHALLENGING CASES – BIOMETRY & IOL SELECTION SUCCESS. INVITED LECTURES SPONSORED BY ALCON FOR KAISER OPHTHALMOLOGISTS. ORANGE COUNTY, CA OCTOBER 2012
- TRAN DB.** FEMTOSECOND LASER FOR CATARACT SURGERY. INVITED LECTURE AT SAN DIEGO EYE BANK. SAN DIEGO, CA OCTOBER 2012
- TRAN DB.** COMPARING FEMTOSECOND LASER PLATFORMS AND LENSX CLINICAL RESULTS. INVITED LECTURE SPONSORED BY ALCON. APACRS 25TH ANNUAL MEETING AND 14TH CONGRESS OF CHINESE CATARACT SOCIETY MEETING. SHANGHAI, CHINA JUNE 2012
- TRAN DB.** FEMTOSECOND LASER FOR REFRACTIVE SURGERY INCLUDING CATARACT. INVITED LECTURE AT SCHEIE EYE INSTITUTE 138TH ANNIVERSARY MEETING, 40TH SCHEIE EYE INSTITUTE, UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA MAY 2012
- TRAN DB.** LASER REFRACTIVE CATARACT SURGERY WITH LENSX LASER: EARLY ENHANCEMENTS IN 2012. INVITED LECTURE SPONSORED BY ALCON. FORESIGHT SYMPOSIUM, HONG KONG MARCH 2012
- MG WOODCOCK, TRAN DB, KK ASSIL, WF WILEY.** HOW TO INCORPORATE INTRAOPERATIVE WAVEFRONT ABERROMETRY INTO THE MANAGEMENT OF REFRACTIVE CATARACT PATIENTS. INSTRUCTOR FOR COURSE OFFERED AT THE AMERICAN ACADEMY OF OPHTHALMOLOGY (AAO) CONFERENCE, ORLANDO, FL OCTOBER 2011.
- TRAN DB.** ACCOMMODATIVE IOL IN POST LASIK CATARACT PATIENTS. POSTER PRESENTATION AT THE AMERICAN ACADEMY OF OPHTHALMOLOGY (AAO) CONFERENCE, ORLANDO, FL OCTOBER 2011.
- TRAN DB.** DIFFRACTIVE MULTIFOCAL IOL SELECTION IN POST LASIK CATARACT PATIENTS. POSTER PRESENTATION AT THE AMERICAN ACADEMY OF OPHTHALMOLOGY (AAO) CONFERENCE, ORLANDO, FL OCTOBER 2011.
- TRAN DB.** OPTIMIZING REFRACTIVE OUTCOMES WITH INTRAOPERATIVE ABERROMETRY IN POST-LASIK/PRK LENS REPLACEMENT SURGERY. POSTER PRESENTATION AT

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THE AMERICAN ACADEMY OF OPHTHALMOLOGY (AAO) REFRACTIVE SURGERY SUB-SPECIALTY DAY CONFERENCE, ORLANDO, FL OCTOBER 2011

- TRAN DB.** USE OF INTRAOPERATIVE ABERROMETRY TO IMPROVE OUTCOMES IN POST LASIK CATARACT PATIENTS UNDERGOING ACCOMMODATIVE IOL IMPLANTATION. PRESENTATION AT EUROPEAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ESCRS) CONFERENCE, VIENNA, AUSTRIA SEPTEMBER 2011.
- TRAN DB.** INTRAOPERATIVE ABERROMETRY FOR IOL POWER SELECTION IN POST PRIMARY HYPEROPIC CATARACT PATIENTS. PRESENTATION AT EUROPEAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ESCRS) CONFERENCE, VIENNA, AUSTRIA SEPTEMBER 2011.
- TRAN DB.** USE OF INTRAOPERATIVE WAVEFRONT ABERROMETRY TO IMPROVE CATARACT SURGERY OUTCOMES IN MYOPIC POST-REFRACTIVE SURGERY PATIENTS. PAPER PRESENTATION AT AMERICAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ASCRS) CONFERENCE, SAN DIEGO, CA MARCH 2011.
- TRAN DB.** USE OF INTRAOPERATIVE ABERROMETRY FOR ACCOMMODATING IOL POWER SELECTION IN POST-LASIK CATARACT PATIENTS. PAPER PRESENTATION AT AMERICAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY (ASCRS) CONFERENCE, SAN DIEGO, CA MARCH 2011
- TRAN DB.** INTRAOCULAR SURGERY: ACCOMMODATIVE IOL. SESSION PANELIST. ASCRS – SAN DIEGO, CA MARCH 2011.
- TRAN DB.** THE OPTICAL PERFORMANCE CHARACTERISTICS AND REFRACTIVE PREDICTABILITY OF THE CRYSTALENS AO. PRESENTATION AT ESCRS, PARIS, FRANCE SEPTEMBER 2010.
- TRAN DB.** THE USE OF INTRAOPERATIVE WAVEFRONT ABERROMETRY TO ENSURE THE APPROPRIATE IOL POWER IN POST-LASIK CATARACT SURGERY. PRESENTATION AT ESCRS, PARIS, FRANCE SEPTEMBER 2010.
- TRAN DB.** OPTIMIZING REFRACTIVE OUTCOMES IN POST KERATOREFRACTIVE CATARACT CASES GUIDED BY INTRAOPERATIVE ABERROMETRY. FILM FESTIVAL PRESENTATION. ASCRS, BOSTON, MA APRIL 2010.
- TRAN DB, M PACKER, R WEINSTOCK, L NICHAMIN.** HOW TO MANAGE REFRACTIVE ERROR WITH AN INTRAOPERATIVE WAVEFRONT ABERROMETER. LEAD INSTRUCTOR COURSE OFFERED AT ASCRS CONFERENCE, BOSTON, MA APRIL 2010.
- TRAN DB.** THE USE OF INTRAOPERATIVE ABERROMETRY IN POST LASIK EYES. POSTER PRESENTATION AT ASCRS CONFERENCE, BOSTON, MA APRIL 2010.
- TRAN DB.** OPTIMIZING REFRACTIVE OUTCOMES WITH INTRALASE FEMTOSECOND LASER AND WAVEFRONT GUIDED LASIK. LECTURES AT THE APACRS, HANOI, VIETNAM 2007. LECTURES SERIES IN TAIWAN, KOREA OCTOBER 2007. BANGKOK, THAILAND IN JANUARY 2008.
- TRAN DB.** SURGICAL TREATMENT OF CORNEAL ECTASIA USING INTACS AND INTRALASE FEMTOSECOND LASER. LECTURE IN TAIWAN, KOREA OCTOBER 2007 AND BANGKOK, THAILAND JANUARY 2008.
- TRAN DB.** CLINICAL RESULTS OF LASIK RE-TREATMENTS UTILIZING A FEMTOSECOND LASER. PAPER PRESENTATION AT THE AMERICAN ACADEMY OF OPHTHALMOLOGY (AAO) MEETING NOV 2007, NEW ORLEANS, LA.
- TRAN DB.** FLAP TEAR DURING INTRALASE FLAP LIFTING – CLINICAL PEARLS. INVITED PAPER PRESENTATION. SUMMER 2007 ASCRS REFRACTIVE SURGERY MEETING , FOUR SEASON AVIARA, SAN DIEGO, CA.
- TRAN DB.** THE ROLES OF INTRALASE FEMTOSECOND LASER IN LASIK RETREATMENT: A 6 YEAR CLINICAL EXPERIENCE. PAPER PRESENTATION AT THE 2ND INTERNATIONAL

DAN B. TRAN, M.D.
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CONFERENCE ON FEMTOSECOND LASERS IN OPHTHALMOLOGY (ICFLO). JUNE 2007, MONTREAL, CANADA.

- TRAN DB.** DONOR TISSUE PREPARATION FOR DSEK USING FEMTOSECOND AND EXCIMER LASERS. PAPER PRESENTATION AT THE 2ND INTERNATIONAL CONFERENCE ON FEMTOSECOND LASERS IN OPHTHALMOLOGY (ICFLO). JUNE 2007, MONTREAL, CANADA.
- TRAN DB.** CORRELATION OF SUBJECTIVE AND OBJECTIVE NIGHT VISION SYMPTOMS FOLLOWING LASIK. PAPER PRESENTATION ASCRS 2007, SAN DIEGO, CA
- TRAN DB.** WAFRONT GUIDED VS. WAVEFRONT OPTIMIZED LASIK: CONTRALATERAL EYE STUDY. PAPER PRESENTATION AT ISRS/AAO 2006, LAS VEGAS, NV
- TRAN DB.** SURGICAL TECHNIQUES TO ACQUIRE TRACKING WITH INTRALASE AND LADARVISION: INCIDENCE OF TRACKING FAILURES IN DARK IRIDES. PAPER PRESENTATION AT ASCRS 2006, SAN FRANCISCO, CA
- TRAN DB.** HIGHER ORDER ABERRATIONS COMPARISON IN FELLOW EYES FOLLOWING INTRALASE LASIK WITH WAVEFRONT ALLEGRETTO AND CUSTOMCORNEA LADAR 4000 SYSTEMS. PAPER PRESENTATION AT ASCRS 2006, SAN FRANCISCO, CA
- SUJATA S. PUROHIT, MD; RAYMUND T. ANGELES, MD; ALAN R. WESTEREN, MD; JAY McDONALD, MD; **DANIEL B. TRAN, MD**; TOM CLINCH, MD; AND DAVID J. SCHANZLIN, MD. CHAPTER 16: "ANGLE-SUPPORTED PHAKIC INTRAOCULAR LENSES: THE PHAKIC 6H2." PHAKIC INTRAOCULAR LENSES; PRINCIPLES AND PRACTICE. 2004, SLACK, INC. DAVID R. HARDTEN, MD, FACS, RICHARD L. LINSTROM, MD, ELIZABETH A DAVIS, MD.
- TRAN DB.** COMPARATIVE WAVEFRONT CHARACTERISTICS FOLLOWING INTRALASIK AND LASIK FLAP FORMATION. AMERICAN ACADEMY OF OPHTHALMOLOGY, REFRACTIVE SURGERY SUBSPECIALTY DAY MEETING 2003, ANAHEIM, CA.
- TRAN DB,** BINDER PS, DURRIE DS, KRUEGER RR, MCRAE SM. UNDERSTANDING INDUCED WAVEFRONT ABERRATIONS WITH LASIK FLAP TECHNOLOGY. COURSE OFFERED AT ASCRS 2003, SAN FRANCISCO, CA.
- TRAN DB,** SARAYBA MA. HIGHER ORDER ABERRATIONS AFTER PHAKIC 6H2 IN HIGH MYOPIA. PAPER PRESENTED AT ASCRS 2003, SAN FRANCISCO, CA
- TRAN DB,** SARAYBA MA, GARUFIS C, KURTZ RM. WAVEFRONT CHARACTERISTICS FOLLOWING INTRALASIK™ FLAP FORMATION. PAPER PRESENTED AT ASCRS 2003, SAN FRANCISCO, CA
- SARAYBA MA, KURTZ RM, **TRAN DB.** CORNEAL TISSUE PLANE SEPARATION REQUIRED FOR RE-CUTTING FLAPS USING INTRALASE™ FEMTOSECOND LASER. PAPER PRESENTED AT ISRS 2002, ORLANDO, FL. BEST PAPER OF SESSION.
- TRAN DB,** SARAYBA MA, KURTZ RM. THE SAFETY AND PRECISION OF LASIK FLAP RE-CUT USING INTRALASE™ FEMTOSECOND LASER. PAPER PRESENTED AT ISRS 2002, ORLANDO, FL.
- IBRAHIM A, **TRAN DB,** PARIKH M, SCHANZLIN DJ. THE SAFETY AND EFFICACY OF INTRASTROMAL CORNEAL RING SEGMENTS (INTACS™) CHANNELING IN LOW MYOPIA USING INTRALASE™ FEMTOSECOND LASER. POSTER PRESENTED AT ISRS 2002, ORLANDO, FL.
- TRAN DB,** SARAYBA MA. INTRASTROMAL CORNEAL RING SEGMENTS COMBINED WITH INTRALASIK™ FOR THE TREATMENT OF MODERATE TO HIGH MYOPIC ASTIGMATISM. POSTER PRESENTED AT ISRS 2002, ORLANDO, FL.
- TRAN DB,** KURTZ R. INTRALASE™ FEMTOSECOND LASER FOR INTACS IN KERATOCONUS. PAPER PRESENTED AT ASCRS 2002, PHILADELPHIA, PA. **BEST PAPER OF SESSION.**

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- TRAN DB. SINGLE SEGMENT INTACS™ IN KERATOCONUS. PAPER PRESENTED AT ASCRS 2002, PHILADELPHIA, PA.
- TRAN DB. INTRALASE™ FEMTOSECOND LASER FOR THE INTRASTROMAL CORNEAL RING CHANNEL. OPHTHALMOLOGY TIMES, JUNE 2002.
- TRAN DB. SINGLE SEGMENT INTACS FOR KERATOCONUS. OCULAR SURGERY NEWS, JUNE 15, 2002.
- TRAN DB. INTRALASE™ FEMTOSECOND LASER FOR INTRASTROMAL CORNEAL RINGS. INVITED LECTURE, AMERICAN COLLEGE OF EYE SURGEONS (ACES), FEB 2002, MIAMI, FL
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- TRAN DB. TRANSEPIHELIAL PRK OF BUTTONHOLE LASIK FLAPS. INVITED LECTURE ISRS FALL 2001, NEW ORLEANS.
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- TRAN DB. REFRACTIVE SURGERY OVERVIEW. LECTURE PRESENTATION TO RESIDENTS AT SHILEY EYE CENTER, UNIVERSITY OF CALIFORNIA, SAN DIEGO 2000.
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- TRAN, D.B., SCHANZLIN, D.J. POST-OPERATIVE SURGICAL COMPLICATIONS OF RADIAL KERATOTOMY (RK), PHOTOREFRACTIVE KERATECTOMY (PRK), AND LASER-IN-SITU KERATOMILEUSIS (LASIK). CONSULTATION REPORT TO KERAVISION, INC. (1998).
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TRAN, D.B., BRUCKER, A. PRESUMED OCULAR TUBERCULOSIS. FLUORESCEIN CONFERENCE CASE PRESENTATION AT THE AMERICAN ACADEMY OF OPHTHALMOLOGY, ATLANTA, GEORGIA 10/1995:

SILVERMAN SE, TRAN DB, ZIMMERMAN KM, FELDON SE. DISSOCIATION BETWEEN THE DETECTION AND PERCEPTION OF MOTION IN ALZHEIMER'S DISEASE. PAPER PRESENTATION ARVO 5/1993

TRAN DB, SILVERMAN SE, ZIMMERMAN K, FELDON SE. AGE-RELATED DETERIORATION OF MOTION PERCEPTION AND DETECTION. POSTER PRESENTATION ARVO 5/1993.

CLINICAL INVESTIGATOR & CONSULTATION

AUGUST 2015 – PRESENT: PRINCIPAL CLINICAL INVESTIGATOR FOR PHASE III US FDA CLINICAL TRIAL. REFOCUS GROUP, INC, DALLAS, TX. PERFORM SURGICAL IMPLANT OF VISABILITY STUDY AS PART OF THE US FDA CLINICAL TRIAL ON THE PRODUCT.

OCTOBER 2015 – PRESENT: PRINCIPAL CLINICAL INVESTIGATOR FOR US FDA CLINICAL TRIAL. ABBOTT MEDICAL OPTICS, SANTA ANA, CA. PERFORM SURGICAL IMPLANT OF THE AMO TORIC IOL AS PART OF THE DENALI US FDA CLINICAL STUDY ON THE PRODUCT.

JAN 2014 – PRESENT: PRINCIPAL CLINICAL INVESTIGATOR FOR PHASE III US FDA CLINICAL TRIAL AND CONSULTANT. IVANTIS INC., IRVINE, CA. PERFORM SURGICAL IMPLANT OF THE HYDRUS 4 MICRO-STENT AS PART OF THE US FDA CLINICAL TRIAL ON THE PRODUCT. PROVIDING ADVISORY CAPACITY IN PATIENT RECRUITMENT AND INTERNATIONAL STUDY PROTOCOL IMPLEMENTATION.

SEPT 2007 – PRESENT: CONSULTANT & MEDICAL ADVISORY & PRINCIPAL CLINICAL INVESTIGATOR FOR PHASE II & III US FDA CLINICAL TRIAL. REVISION OPTICS, LAKE FORREST, CA. ASSISTING IN THE DEVELOPMENT OF CORNEAL IMPLANT FOR PRESBYOPIC CORRECTION. PERFORM SURGICAL IMPLANT OF THE CORNEAL INLAY AS PART OF THE US FDA CLINICAL TRIAL ON THE PRODUCT. PERFORMING INTERNATIONAL CLINICAL STUDY ON THE RAINDROP™ INLAY.

JULY 2012 – PRESENT: PRINCIPAL CLINICAL INVESTIGATOR FOR PHASE III US FDA CLINICAL TRIAL. TRANSCEND MEDICAL, MENLO PARK, CA. PERFORM SURGICAL IMPLANT OF THE CYPASS MICRO-STENT AS PART OF THE US FDA CLINICAL TRIAL ON THE PRODUCT.

2009 – PRESENT: CONSULTANT & CLINICAL INVESTIGATOR & SPEAKER. ALCON – LENSX, ALISO VIEJO, CA. ASSIST IN THE DEVELOPMENT OF THE LENSX FEMTOSECOND LASER FOR CATARACT SURGERY. PERFORM THE FIRST LENSX FEMTOSECOND CATARACT SURGERY IN CALIFORNIA. PERFORM ADDITIONAL CLINICAL STUDIES FOR POST FDA CLEARANCE OF THE DEVICE INCLUDING NEW AND IMPROVED SOFTWARE AND HARDWARE UPDATES. LECTURE ON NEW SURGICAL TECHNIQUES, SURGICAL OUTCOMES AND DEVICE IMPROVEMENTS AT LOCAL, NATIONAL AND INTERNATIONAL CONFERENCES.

2008 – PRESENT: CONSULTANT & MEDICAL ADVISORY BOARD & SPEAKER. WAVETEC VISION, ALISO VIEJO, CA. ASSIST IN THE DEVELOPMENT AND CLINICAL IMPROVEMENT OF THE ORA™ INTRAOPERATIVE WAVEFRONT SYSTEM. PERFORM THE FIRST INTRAOPERATIVE WAVEFRONT ABERROMETRY CATARACT PROCEDURE IN ORANGE COUNTY, CA. LECTURE ON SURGICAL TECHNIQUES AND REFRACTIVE OUTCOMES AT LOCAL, NATIONAL AND INTERNATIONAL CONFERENCES.

SEPT 2007 – 2010: CONSULTANT AND SPEAKER. INSPIRE PHARMACEUTICALS, INC. ASSIST IN LOCAL AND NATIONAL SPEAKING EVENTS FOR THE COMPANY PRODUCTS.

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NOV 2001 – 2009: CONSULTANT AND SPEAKER. AMO-INTRALASE, INC. ASSIST IN POST APPROVAL STUDIES AND SPEAKING EVENTS AT NATIONAL OPHTHALMOLOGICAL MEETINGS.

2006 – PRESENT: CONSULTANT AND SPEAKER. ALLERGAN, INC. ASSIST IN LOCAL AND NATIONAL SPEAKING EVENTS FOR THE COMPANY PRODUCTS.

NOVEMBER 2003: REFRACTIVE SURGERY SUB-SPECIALTY MEETING, AMERICAN ACADEMY OF OPHTHALMOLOGY, ANAHEIM CA. MODERATOR, KERATOMES AND ALTERNATIVE TECHNOLOGY

APRIL 2003: ASCRS SAN FRANCISCO, CA. WAVEFRONT, SESSION PANELIST

JUN 2002: ASCRS PHILADELPHIA, PA. PUPILS, GLARES SESSION PANELIST.

NOV 2001 – 2003: CONSULTANT. FEMTOSECOND LASER ANTERIOR LAMELLAR KERATOPLASTY. SBIR PHASE I GRANT, NATIONAL EYE INSTITUTE. RONALD M. KURTZ, PRINCIPLE INVESTIGATOR, INTRALASE CORP.

NOV 2002 – 2003: CONSULTANT. FEMTOSECOND LASER ANTERIOR LAMELLAR KERATOPLASTY. SBIR PHASE II GRANT, NATIONAL EYE INSTITUTE. APPLICATION IN PROGRESS WITH PENDING APPROVAL. RONALD M. KURTZ, PRINCIPLE INVESTIGATOR, INTRALASE CORP.

NOV 2002 – 2006: CONSULTANT. PHYSICAL OPTICS CORP., TORRANCE, CA. LIQUID CRYSTAL ADAPTIVE SPECTACLES. SBIR PHASE I GRANT, NATIONAL EYE INSTITUTE. APPLICATION IN PROGRESS WITH PENDING APPROVAL. ALEX NAUMOV, PRINCIPLE INVESTIGATOR, PHYSICAL OPTICS CORP.

FEB 2002 – PRESENT: CONSULTANT. INTRALASE CORP., IRVINE, CA. CLINICAL INVESTIGATION FOR THE APPLICATIONS OF INTRALASE FEMTOSECOND LASER TO THE CREATION OF INTRASTROMAL CORNEAL RINGS CHANNELS, PENETRATING KERATOPLASTY, LASIK FLAPS AND WAVEFRONT STUDY.

FEB 2001 - 2003: CONSULTANT. PHYSICAL OPTICS CORP., TORRANCE, CA. CORNEAL SPECKLE INTERFEROMETER. SBIR PHASE II GRANT, NATIONAL EYE INSTITUTE. MEDICAL CONSULTANT FOR AN ANIMAL STUDY ON AN NEI GRANT ON CORNEAL INTERFEROMETER.

OCTOBER 2001 – 2008: CLINICAL INVESTIGATOR FOR PHAKIC IOL STUDY. A CLINICAL INVESTIGATOR FOR PHAKIC 6 IOL FDA STUDY PHASE II SPONSORED BY OPHTHALMIC INNOVATION INTERNATIONAL, INC.

1999-2000: CLINICAL CO-INVESTIGATOR FOR INTACS™ STUDY. A CO-INVESTIGATOR FOR INTACS™ EXPANDED PHASE III B FDA STUDY SPONSORED BY KERAVISION, INC.

H O N O R S & S U R G I C A L A C C O M P L I S H M E N T S

1982: TAU BETA PI NATIONAL ENGINEERING HONORS SOCIETY

1983: PHI KAPPA PHI HONORS SOCIETY

1984: MAGNA CUM LAUDE AT GRADUATION IN ELECTRICAL ENGINEERING

1992: HONORS CLERKSHIPS: MEDICINE, OPHTHALMOLOGY

2001: PERFORM THE FIRST SURGICAL PROCEDURE IN THE U.S. UTILIZING FEMTOSECOND LASER INTRALASE TO CREATE CORNEAL CHANNEL FOR PLACEMENT OF INTACS TO TREAT MYOPIA AND KERATOCONUS NOW IS COMMONLY USED FOR KERATONUS INTACS IMPLANTS

2001: UTILIZING THE FIRST COMMERCIALY AVAILABLE INTRALASE FEMTOSECOND LASER TO PERFORM LASIK IN THE U.S. NOW IS COMMONLY DONE WITH LASIK

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2008: FIRST SURGEON IN ORANGE COUNTY PERFORMING INTRAOPERATIVE
ABERROMETRY (ORA™) FOR REFRACTIVE CATARACT SURGERY. NOW IS
COMMONLY USED IN ADVANCE REFRACTIVE CATARACT SURGERY IN THE U.S.

2009: AMERICAN ACADEMY OF OPHTHALMOLOGY ACHIEVEMENT AWARD

2011: FIRST SURGEON IN CALIFORNIA PERFORMING FEMTOSECOND LASER ASSIST
CATARACT SURGERY. NOW BECOMING MORE COMMONLY USED IN ADVANCE
REFRACTIVE CATARACT SURGERY IN THE WORLD.

REFERENCES

--- REFERENCES AVAILABLE UPON REQUEST---

DAN B. TRAN, M.D.
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1  **Case Presentation**

Lisa D. Garbutt, M.D.
Coastal Vision Medical Group

2  **Case Presentation**

- * D.V., 15 year old male
- * Slow, progressively worsening regular astigmatism in one eye since age 11.

3  **History OS**

- * 3/2009: 43.00/43.50 (0.50) 20/25
- * 4/2010: 42.75/43.25 (0.50) 20/20
- * 4/2011: 42.25/44.00 (1.75) 20/25
- * 5/2012: 41.50/45.00 (3.50) 20/40 K topography with no keratoconus or irregularity
- * 6/2013: 41.00/45.50 (4.50) 20/30
- * 6/2014: 40.75/46.25 (5.50) 20/30
- * 6/2015: 40.25/46.00 (5.75) 20/40
- * 6/2016: 40.25/46.50 (6.25) 20/40

4  **Exam**

- * A.R.: -0.25 OD, unable to measure OS
- * K's: 41.87/42.37 OD, 40.12/46.62 OS
- * Va sc 20/40 OD, 20/200 OS, ph 20/50 -2
- * Scurf on lashes
- * Superior peripheral corneal thinning OS with neovascularization, epithelium intact, no lipid

5  **Corneal Topography**

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- * Corneal Topography

6  **Pentacam**

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- * Pentacam

7  **Right Eye**

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* Right eye

8  **Left Eye**

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* Left eye

9  **Autoimmune workup**

* Seen by Rheumatologist

* Labs negative with exception of SS-B antibody (Sjogren's antibody); 1.4 (<1.0 negative)

10  **Initial treatment**

* Pataday gtt QAM OU

* Lotemax gel gtt QHS OS for 2-3 weeks, then Restasis BID OU

* Lid scrubs, Erythromycin ointment to lashes at night

* Eye protection at all times with sports

11  **Next step**

* Next step: ?Scleral lens OS

Case Presentation

Lisa D. Garbutt, M.D.
Coastal Vision Medical Group

Case Presentation

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Corneal Topography



* Corneal Topography

Pentacam



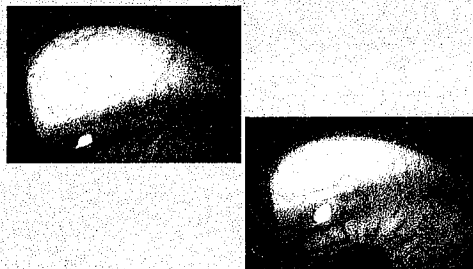
* Pentacam

Right Eye



* Right eye

Left Eye



* Left eye

Autoimmune workup

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Initial treatment

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- * Eye protection at all times with sports

Next step

- * Next step: ?Scleral lens OS

Lisa D. Garbutt, MD

lisagarbutt@coastal-vision.com

Experience

COASTAL VISION MEDICAL GROUP, ORANGE, NEWPORT BEACH, AND LONG BEACH, CA MARCH 2014 TO PRESENT BOARD CERTIFIED OPHTHALMOLOGIST/CORNEAL SUBSPECIALIST General ophthalmology, specializing in the treatment of cataracts, ocular surface disease, corneal disease and surgery, and eyelid surgery.

INLAND EYE SPECIALISTS, MURRIETA AND FALLBROOK, CA AUGUST 2008 TO MARCH 2014 BOARD CERTIFIED OPHTHALMOLOGIST/CORNEAL SUBSPECIALIST General ophthalmology, specializing in the treatment of ocular surface disease, cataract surgery, DSAEK, and LASIK.

UCSD DEPARTMENT OF OPHTHALMOLOGY/SHILEY EYE CENTER JULY 2007 TO JULY 2008 CORNEA FELLOW, CLINICAL INSTRUCTOR Fellowship in Cornea, Cataract and Refractive Surgery, Clinical Instructor for Residency Program

Education

BOSTON UNIVERSITY SCHOOL OF MEDICINE. Doctor of Medicine (Cum Laude), May 2003. Boston, Massachusetts

BOSTON UNIVERSITY SCHOOL OF MEDICINE. Master of Arts, Medical Science, January 1999. Boston, Massachusetts

UNIVERSITY OF CALIFORNIA, LOS ANGELES. Bachelor of Science, Psychobiology, December 1994. Los Angeles, California

Postgraduate Training

UNIVERSITY OF CALIFORNIA, SAN DIEGO. Shiley Eye Center. Fellowship in Cornea, Cataract and Refractive Surgery. Fellowship Director: David J. Schanzlin, M.D.

UNIVERSITY OF CALIFORNIA, SAN DIEGO. Shiley Eye Center. Ophthalmology Residency, 2004-2007.

UNIVERSITY OF CALIFORNIA, SAN DIEGO. Department of General Surgery. General Surgery Internship, 2003-2004.

Honors and Awards

Cum Laude. Doctor of Medicine. Boston University School of Medicine. May 2003

Medical School Honors/Advanced Standing: Gross Anatomy, Histology, Neurosciences, Biochemistry, Endocrinology, Immunology, Physiology, Microbiology, Pathology, Pharmacology, Psychiatry, Obstetrics & Gynecology, Medicine, Gastrointestinal Surgery, Ophthalmology, Plastic & Reconstructive Surgery, Ophthalmic Pathology

Dean's List - Boston University School of Medicine. Fall 2000

Association of Pathology Chairs Honor Society. Boston University School of Medicine. 2000

UCSD Department of Ophthalmology Director's Award. June 2007

Physician of the Quarter. Fallbrook Hospital. First Quarter of 2011. Fallbrook, California.

Memberships

American Academy of Ophthalmology

American Society of Cataract and Refractive Surgery

Licensure

Medical Board of California. 4/15/2005, License No. A90909

Board Certification

American Board of Ophthalmology. October 2008.

Other Certification

MORIA Microkeratome Certification Training Course. August 2006.

VISX Physician Certification Training Course, Advanced CostumVue Training, Monovision Training. August 2007, 2012.

Intralase Global Training Course. October 2007. Re-certification 2012.

Research

Sub-Investigator. Alcon. Completion of Principal Investigator and Sub-Investigator Training Course. Alcon. Fort Worth, Texas. July 2011.

Sub-Investigator. Alcon. C-09-045: A Phase 3 Multicenter, Randomized, Controlled, Double-Masked Study of Safety and Efficacy of Sodium Hyluronate Ophthalmic Solution, 0.18% in Dry Eye Syndrome. September 2011-June 2013.

Sub-Investigator. Icon Bioscience, Inc. Investigational Product IBI-10090 (dexamethasone intraocular injection). A Multicenter, Randomized, Double-masked, Doseranging, Phase 2 Study to Evaluate the

Efficacy and Safety of IBI-10090 for the Treatment of Inflammation Associated with Ocular Surgery. September 2012 - December 2012.

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Garbutt LD. Korn BK. Kikkawa DO. Periorbital Basal Cell Carcinoma: MOHS Micrographic Surgery vs. Surgical Excision with Frozen-Section Control. Presented at UCSD Shiley Eye Center Research Alumni Day. June 4, 2005.

Black PH. Garbutt LD. Stress, Inflammation, and Cardiovascular Disease. *Journal of Psychosomatic Research*. 52(Jan. 2002) 1-23.

Contributed to article: Black, PH. Stress and the Inflammatory Response: a Review of Neurogenic Inflammation. *Brain, Behavior, and Immunity*. 16(6) 2002 Dec. 622-653.

Master's Thesis 1998. Boston University School of Medicine. Stress, the Inflammatory Response, and the Initiation and Progression of Atherosclerosis. Accepted December 1998.

Leadership

Ophthalmology Staff Physician Representative. Ambulatory Surgery Center Medical Advisory Committee. Inland Eye Specialists. June 2010 - 2014.

Chairman. Systems Review Committee. Fallbrook Hospital. January 2011-January 2013.

Physician Member. Systems Review Committee. Fallbrook Hospital. January 2009-January 2011.

Physician Member. Medical Staff Executive Committee. Fallbrook Hospital. January 2011-January 2013.

UCSD Department of Ophthalmology Resident Physician Committee Representative. Graduate Medical Education. 2004-2006.

Resident Physician Council. UCSD Medical Center. 2005-2006.

American Medical Student Association Member. 1999-2003.

Other Employment

Scrub Technician. Michael J. Groth, M.D., Ophthalmic Plastic and Reconstructive Surgery. Beverly Hills, California. October 1994-August 1997.

Scrub Technician. Robert W. Hutcherson, M.D., Head and Neck Plastic & Reconstructive Surgery. Beverly Hills, California. October 1994-August 1997.

Office Manager/Surgery Scheduling. Michael J. Groth, M.D., Ophthalmic Plastic and Reconstructive Surgery. Beverly Hills, California. October 1993-October 1994.

References

Douglas Clements, M.D. Inland Eye Specialists. Fallbrook, CA. 760-728-5728.

Leah Levi, M.D. Previous Residency Director. UCSD Department of Ophthalmology, Shiley Eye Center. La Jolla, California 858-534-629

1  **CASE PRESENTATION:** **GLAUCOMA AND CATARACT**

Betsy Bao-Thu Nguyen, M.D.
GLAUCOMA & CATARACT SPECIALIST

2  **Financial Disclosure**

- I DO NOT have any financial conflict or conflict of interest in relation to this presentation.
-

3  **Background: Glaucoma & Cataracts**

- 2.8 million have PRIMARY OPEN ANGLE GLAUCOMA (POAG) in US.
 - Half are undiagnosed.
 - 2nd most common cause of legal blindness in US.
- Treatment goal: LOWER INTRAOCULAR PRESSURE by Medications, Laser, or Surgery
- Estimated that 20% of cataract surgeries in USA are in patients with co-morbid glaucoma or ocular hypertension
-

4  **CASE PRESENTATION: DM**
Progressive cataract and glaucoma

- 70 yo retired active WF, POAG X 3 yrs, on Lumigan OU qhs
- Va : 20/30 OU → BAT 20/50 OU, low hyperope
- IOP (applanation): 19 OD, 18 OS (Tmax= 24)
- 2+ Nuclear sclerosis OU
- Pachy: 510 OD and 505 OS
- Gonio: Grade IV, open to CBB
- Fam history: mother
-

5 

6  **HVF 24-2 SITA STANDARD**

7  **CASE PRESENTATION**

- What is your next treatment step for progressive cataracts and IOP above target range?
 - A. Continue Lumigan, add Simbrinza.
 - B. Continue Lumigan, add Cosopt or Combigan.
 - C. Continue Lumigan. Suggest SLT 360.
 - D. Continue Lumigan. Suggest Cataract surgery OD.
 - E. Continue Lumigan. Suggest Cataract surgery OD with MIGS (i.e. Cypass) .
 - F. Continue Lumigan. Suggest trabeculectomy OD .
 - G. Refer to a glaucoma specialist.
-
-

8  **CASE PRESENTATION**

- WHAT happened to this patient?
 - WE had a discussion of risks and benefits of all cataract and glaucoma treatments.
- We agreed on the following:
 - Continue Lumigan OU qhs.
 - Add Cosopt BID OD temporarily.
 - Proceed with CE/Cypass OU (understood may still need trabeculectomy in future, but preferred less risk now)
 - > VA OU = 20/20 OU, IOP =9 OD, 12 OS (on Lum OU qhs only)
 - NO recurrent Disc heme.

9  **CATARACT SURGERY: lowers IOP**

- Lowering IOP :
 - 1-4 mm Hg decrease (Shingleton BJ et al, J Glaucoma 2006; 15:494-498.) Can be sustained for 3-5 years
 - 8 mm Hg decrease (Samuelson et al, Ophthalmology 2011; 118:459-467)
- Proposed mechanism: Enhance TM outflow
- Degree of IOP lowering correlates with extent of AC deepening. So, in patients with PACG or narrow angles: even more IOP lowering. (Huang et al. Arch Ophth.2011 Oct; 129 (10):1283-90)

10  **Cypass Micro-stent**

- COMPASS study
 - About 500 mild to moderate patients, with 2 yr Follow-up
 - 73% achieved at least 20% decrease IOP
 - 61% achieved IOP <19, on no medications
- Lowers IOP to teens ?
-
- Glaukos Istent Supra (not FDA approved) competitor. will be

11  **QUESTION**

WHEN SHOULD I CONSIDER CATARACT SURGERY WITH CISTENT?

Answer: Any patient that needs cataract surgery, with early or moderate glaucoma, that there is sufficient space in the angle for the Cypass, and patient wants to decrease # current glaucoma medications


12  **TAKE HOME MESSAGE**

- Compliance and cost of medications are likely to affect patient's glaucoma.
- Minimize side effects to patient by considering SLT, cataract surgery, and MIGs.
- MIGS is bleb-free and can have less surgical risks than traditional glaucoma surgery.
- This is just the beginning of the MIGS revolution, and it is evolving. It is all about bypassing the resistance of TM outflow, and improving outflow via Schlemm's canal. Time will tell which MIGS devices and procedures will be used.

13  **THANK YOU FOR YOUR ATTENTION!**


- QUESTIONS: betsynguyen@coastal-vision.com

COASTALVISION
Medical Group Inc.



**CASE PRESENTATION:
GLAUCOMA AND CATARACT**


Betsy Bao-Thu Nguyen, M.D.
GLAUCOMA & CATARACT SPECIALIST



Financial Disclosure

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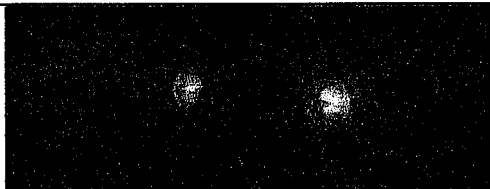
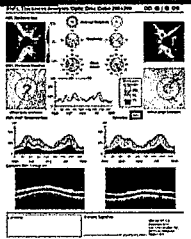
COASTALVISION
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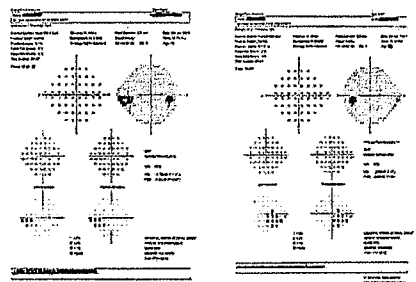
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HVF 24-2 SITA STANDARD



COASTALVISION
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CASE PRESENTATION

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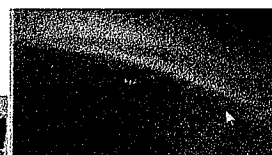
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- Glaukos IStent Supra (not FDA approved) will be competitor.



The Cypass creates a controlled outflow pathway to the suprachoroidal space.



QUESTION

WHEN SHOULD I CONSIDER CATARACT SURGERY WITH CISTENT?

Answer: Any patient that needs cataract surgery, with early or moderate glaucoma, that there is sufficient space in the angle for the Cypass, and patient wants to decrease # current glaucoma medications



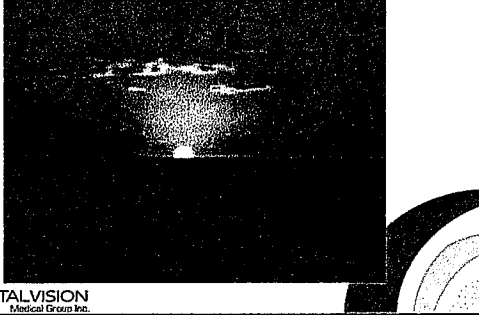
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THANK YOU FOR YOUR ATTENTION!

- QUESTIONS: betsynguyen@coastal-vision.com



COASTALVISION
Medical Group Inc.

CURRICULUM VITAE

Bao-Thu Betsy Nguyen, M.D.
293 S. Main St, #100
Orange, CA 92868
(714)771-1213/ (714)771-7123 (fax)

CURRENT PRACTICE

2000 - Present: Private Practice, Ophthalmology
2000 - Present: Consultant/Research for USC, Dept of Ophthalmology

LICENSES & CERTIFICATIONS

11/19/2000 Board Certified, Diplomate, Ophthalmology (Effective through 12/2020)
06/06/1997 Medical Board of California licensed (Exp date = 10/31/2016)
1997 DEA licensed (Exp date = 10/31/2017)
2004 - 2011 LOCS III certified

EDUCATION & POSTGRADUATE TRAINING

1999 - 2000 : Clinical Fellowship, Glaucoma & Clinical Instructor
Preceptors: Robert L. Stamper, MD and Marc F. Lieberman, MD
University of California, San Francisco (UCSF) & California Pacific Medical Center
1996 - 1999 : Residency, Ophthalmology (worked with Joseph Caprioli, MD, Anne Coleman, MD & Roy Wilson, MD)
Jules Stein Eye Institute at UCLA
1995 - 1996 : Internship, Preliminary Medicine
UCLA – San Fernando Valley
1991 - 1995 : M.D. degree, *Alpha Omega Alpha* Honor Society (top 10% of class)
UCLA David Geffen School of Medicine
1989 - 1991 : B.S. Biological Sciences, *Magna cum laude*
University of California, Irvine
1987 - 1989 : Dean's Honors List & UC Regents Scholar
University of California, San Diego

HONORS & AWARDS

1999 : ARVO Travel Fellowship, National Eye Institute
1995 : Alpha Omega Alpha Honor Society, UCLA School of Medicine
1991 : Edward Mittleman Scholarship, for academic excellence in Biological Sciences
1991: Magna Cum Laude, University of California, Irvine
1989 : Phi Beta Kappa Honor Society, University of California, Irvine
1989 : UC Regents Scholarship
1987 – 1991 : Dean's Honors List
1987 : High School Class Valedictorian, Irvine High School

PROFESSIONAL MEMBERSHIPS

American Academy of Ophthalmology, American Society of Cataract and Refractive Surgery,

California Medical Association, California Academy of Eye Physicians & Surgeons, Orange County Ophthalmology Society

OTHER ACTIVITIES

- 2000-2006 Team Eye Doctor for the National Champions Anaheim Angels
2000-2006 Team Eye Doctor for the Division Champions Anaheim Mighty Ducks
2002-2012 Consultant for Allergan

RESEARCH EXPERIENCE, PRESENTATIONS & PUBLICATIONS

- 2013-2015 Researcher for USC – Collaboration with Chinese American Eye Study (CHES). Collaborate with Rohit Varma, MD.
- 2012 Baseline risk factors that predict the development of open-angle glaucoma in a population: the Los Angeles Latino Eye Study. *Ophthalmology*. 2012 Nov;119(11):2245-53.
- 2012 Four-year incidence of open-angle glaucoma and ocular hypertension: the Los Angeles Latino Eye Study. *Am J Ophthalmol*. 2012 Aug;154(2):315-325.
- 2011 "Population and High Risk Group Screening for Glaucoma: The Los Angeles Latino Eye Study", *Invest Ophthalmol Vis Sci*. 2011 August; 52(9): 6257–6264.
- 2000 - 2012 Researcher for USC – Collaboration with Los Angeles Latino Eye Study (LALES). Collaborate with Rohit Varma, MD and Brian Francis, MD.
- 2005 Screening for Glaucomatous Optic Nerve Damage: The Los Angeles Latino Eye Study. *ARVO Abstract. Invest Ophthalmol Vis Sci* 2005;46: E-Abstract 2499.
- 2004 "Prevalence of open-angle glaucoma and ocular hypertension in Latinos: the Los Angeles Latino Eye Study", *Ophthalmology*, 2004 Aug; 111(8):1439-48.
- 2003 Prevalence of Open-Angle Glaucoma and Ocular Hypertension in Latinos. The Los Angeles Latino Eye Study (LALES) . *ARVO Abstract. Invest Ophthalmol Vis Sci* 2003;44: E-Abstract 317
- 2000 - 2012 Researcher for USC – Collaboration with **Los Angeles Latino Eye Study (LALES)** . Collaborate with Rohit Varma, MD.
- 2007 - 2009 : Schering study (LOCS III Certified)
- 2004 - 2006 : TAKEDA study (LOCS III Certified)
- 2003 Advanced Glaucoma Training DVD, for Allergan
- 1999 - 2000 : Evaluation of computerized optic discs to determine stability vs. progression of glaucoma, under Robert L. Stamper, MD, Chief of Glaucoma, UCSF.
- 1998 - 1999 : Retrospective longitudinal study of progression of glaucoma, using multivariate analysis of serial visual fields, stereoscopic disc photographs, and confocal laser imaging, under Joseph Caprioli, MD, Chief of Glaucoma, UCLA Jules Stein Eye Institute.
ARVO paper presentation, "Identification of Glaucoma Progression Through Combined Use of Quantitative Structural and Functional Measures", May 1999.
- 1995 - 1997 : Development of quantitative methods for evaluation of socket motility of orbital implants, under Robert A. Goldberg, MD, Chief of Oculoplastics,

UCLA Jules Stein Eye Institute.

Poster presentation, Jules Stein Eye Institute Research and Alumni Day, 1998.









1992 - 1993 : Investigation of traumatic optic neuropathy in a rat model, under Robert A. Goldberg, MD & Kenneth Steinsapir, MD, UCLA School of Medicine. Poster presentation, "Dynamic Changes in Cerebral Glucose Metabolism Following Optic Nerve Trauma", at Neuroscience, 1992.

1989 - 1991 : Investigation of the effects of glycation on the function of the sodium-potassium pump, under Margaret H. Garner, PhD, UCI School of Medicine.

Publication, "Na,K-ATPase of Cultured Bovine Lens Epithelial Cells: H₂O₂ Effects", *Experimental Eye Research*, 1992 Mar, 54 (3): 321-7.

Poster presentation, "Glucose Control, by Nonenzymatic Glycation of Na, K-ATPase Function in the Nondiabetic", FASEB 1991.

References available upon request.

- 1  **Reluctance after Corneal Transplant**
- 2  **Case Presentation**
 - 76 yo woman
 - Chief complaint: progressive vision loss in left eye
 -
 - Ocular History:
 - Automated Lamellar Keratoplasty (ALK) OU x 30 years ago to correct hyperopia
 - After ALK, developed astigmatism, and a 5-mm trapezoidal keratotomy performed on vertical meridian OU
- 3  **Case Presentation**
 - Ocular History Continued...
 - Several years later, developed ectasia OU, treated with RGP contact lenses. As ectasia worsened, patient became intolerant to RGPs.
 - PKP (9-mm) OD to resolve issues and improve vision. Patient suffered several episodes of rejection and eventually graft failed. Currently has vascularized limbus 360° OD
 -
 -
- 4 
- 5  **Case Presentation**
 - Manifest refraction
 - OD: -9.00+5.00x45 20/400
 - OS: -7.00+2.00x180 20/200
 - Dense +3 nuclear sclerotic cataract OS
 - Keratometry (K) Readings OS
 - K1: 75.33D/4.48mm @ 4.50°
 - K2: 79.41D/4.25mm @ 135°
 - IOL Master calls for -38.00D IOL
 -
 -
- 6  **How do you manage patient?**
 - Based on patient's previous experience, she does not want to undergo a PKP in her left eye
 - How do you manage her complaints regarding her left eye?
- 7  **Treatment Plan #1**
 - Test patient's tolerance for scleral contact lens
 -
 - If patient tolerated scleral contact lens, consider performing cataract surgery to avoid potential complications with corneal procedures
- 8  **Treatment Plan #2**
 - If patient did not tolerate scleral CL, consider corneal crosslinking and possible

topography-guided PRK to reduce irregularity of central cornea

- Only possible if reproducible topographic measurements can be obtained
- Patient education regarding risk of corneal haze and progressive ectasia

9  **Treatment Plan #2 continued**

- Wait 3 to 6 months before performing cataract surgery
 - Biometry using IOL Master would not be accurate for IOL calculations and selection
 - Patient would likely need high-minus lens (AR40M IOL available in high-minus)
 - Attempt intraoperative aberrometry (ORA), but probably wouldn't be able to capture images

10  **Treatment Plan #3**

- Possible 7.75-mm to 8-mm PKP performed first
 - Avoid 9-mm PKP with its associated higher risks of rejection due to proximity to limbus
- DALK could be attempted and converted to a PKP if perforation occurred
- Cataract surgery could be performed 3 to 6 months after PKP
-
- However, based on patient's experience with her right eye, she most likely would not consent to corneal transplant procedure

1  **PROGRESSIVE VISION LOSS**

JENNIFER WU, MD

2  **CHIEF COMPLAINT**

- 38 YO FEMALE C/O PROGRESSIVE PAINLESS VISION LOSS IN THE LEFT EYE OVER PAST 2 YEARS
- VISION LOSS SPECIFIC TO RIGHT UPPER QUADRANT IN THE LEFT EYE ONLY
- VISION LOSS ASSOCIATED HEADACHES AND FLOATERS
- WHAT WOULD YOU DO NEXT?

3  **ADDITIONAL WORK-UP**

- SAW NEUROLOGIST, MRI DONE 1 MONTH PRIOR TO PRESENTATION WITH NORMAL RESULT
- SAW OUTSIDE OPHTHALMOLOGIST WHO NOTED A NORMAL OCULAR EXAM
- DIAGNOSED WITH OCULAR MIGRAINES WITH ASSOCIATED AURA AND FLOATERS
- WHAT WOULD YOU DO NEXT?
-

4  **EXAM**

1. • VA (CC)
 - OD 20/20
 - OS 20/25
- PUPILS- RR OU, NO RAPD
- TONOMETRY- 19 OU
- EOM- MILD EXOPHORIA
2. • ANTERIOR SEGMENT NORMAL

5  **POSTERIOR FUNDUS EXAM**6  **VISUAL FIELD**7  **DIAGNOSIS**

- 1) RETINAL HOLE OS
- 2) RETINOSCHISIS VERSUS RETINAL DETACHMENT OS
- 3) HEADACHE
- 4) MILD EXOPHORIA OU
- 5) OPTIC NERVE HEAD DRUSEN OU

8  **RETINOSCHISIS VERSUS RETINAL DETACHMENT**

1. RETINOSCHISIS
2. RETINAL DETACHMENT
3. • ABNORMAL SPLITTING OF THE RETINA'S NEUROSENSORY LAYERS, USUALLY IN THE OUTER PLEXIFORM LAYE
 - THERE IS ALWAYS VISION LOSS IN THE REGION OF THE SCHISIS AS THE SENSORY RETINA IS SEPARATED FROM THE GANGLION LAYER (ABSOLUTE SCOTOMA) VERSUS RELATIVE SCOTOMA WITH RETINAL DETACHMENT
 -
4. • RETINOSCHISIS CAN BE DISTINGUISHED FROM RETINAL DETACHMENT BY APPEARANCE ON ULTRASOUND
 - UPTAKE OF PHOTOCOAGULATION WITH RETINOSCHISIS

- ABSOLUTE SCOTOMA WITH RETINOSCHISIS VERSUS RELATIVE SCOTOMA IN RETINAL DETACHMENT

9  **EYGRAIN FOR HEADACHES AND MILD EXOPHORIA**

10  **OPTIC NERVE HEAD DRUSEN OU**

- GLOBULAR HYALINE BODIES LOCATED WITHIN THE OPTIC NERVE HEAD
- OPTIC NERVE HEAD IS OFTEN ELEVATED WITH BLURRED AND/OR IRREGULAR DISC MARGINS
- CAN BE CONFUSED WITH PSEUDOPAPILLEDEMA
- DIFFERENTIATE FROM TRUE PAPILLEDEMA BY LACK OF HYPEREMIA, LACK OF DISC SURFACE MICROVASCULAR ABNORMALITIES, AND VISIBLE RETINAL VESSELS AT THE DISC MARGIN
- VISUAL FIELD DEFECTS HAVE BEEN REPORTED IN 71% OF EYES

11  **MAY THE OPHTHALMIC FORCE BE WITH YOU!**

PROGRESSIVE VISION LOSS

JENNIFER WU, MD

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- 38 YO FEMALE C/O PROGRESSIVE PAINLESS VISION LOSS IN THE LEFT EYE OVER PAST 2 YEARS
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- VA (CC)
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POSTERIOR FUNDUS EXAM

Optic nerve head swollen OU

Retinal haze inferior with intra-retinal fluid, retinoschisis inferior; rolling without retinal detachment.

VISUAL FIELD

DIAGNOSIS

- 1) RETINAL HOLE OS
- 2) RETINOSCHISIS VERSUS RETINAL DETACHMENT OS
- 3) HEADACHE
- 4) MILD EXOPHORIA OU
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Jennifer Lee Wu, M.D.

Cornea, Cataract, and Refractive Specialist

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Fax: (714) 771-7126
Email: jennywu@coastal-vision.com

Education:

- 2005 B.S. in Molecular, Cellular, Developmental Biology
Yale College, New Haven, Connecticut
- 2009 M.D.
Yale University School of Medicine, New Haven, Connecticut

Postdoctoral Training:

- 2009-10 Internship in Internal Medicine
Yale New Haven Hospital, New Haven, Connecticut
- 2010-13 Residency in Ophthalmology
Doheny Eye Institute/LAC-USC Medical Center, Los Angeles, California
- 2013-14 Clinical Fellowship in Cornea and External Disease
Doheny Eye Institute/University of Southern California, Los Angeles, California

Board Certification:

- 2014 Diplomat, American Board of Ophthalmology

Medical Licensure:

- 2011 California
- 2014 Oklahoma

Academic Appointments:

- 2014- 16 Clinical Assistant Professor in Cornea and External Disease and Refractive
Dean McGee Eye Institute, University of Oklahoma Health Sciences Center,
Oklahoma City, Oklahoma
- 2013-14 Clinical Instructor in Ophthalmology
Keck Medical Center at University of Southern California, Los Angeles,
California

Private Practice:

- 2016-Present Coastal Vision Medical

Teaching Experience:

- Teaching medical students, residents, and fellows in the eye clinic and operating room
- Presenting lectures on cornea and external disease to ophthalmology residents

Mentoring Experience:

- Mentoring multiple medical students and residents in clinical research project design and manuscript preparation resulting in publications and conference presentations
- Participating faculty mentor for American Medical Women's Association at University of Oklahoma– role model for female medical students and undergraduate pre-medical students

Honors and Awards:

- 2005 Edgar Boell Prize, Yale College
Awarded best senior thesis in the Health Sciences
- 2009 Farr Research Scholar, Yale University School of Medicine
Awarded honors medical thesis
- 2012 ARVO National Eye Institute Travel Grant, National Eye Institute
Awarded grant for outstanding research abstract
- 2012 Henry & Lilian Nesburn Award, Henry & Lilian Nesburn Foundation
Awarded best resident research manuscript
- 2013 Doheny Resident Research Award, Doheny Eye Institute
Awarded exceptional ARVO presentation

Peer Reviewed Publications:

Articles

1. Mckay T, Hjortdal J, Sejersen J, Asara J, **Wu JL** and Karamichos D. Endocrine and Inflammatory Factors in Keratoconus: Role of Hormones in the Stromal Microenvironment. *EMBO reports*. Accepted for publication April 2016.
2. Royer D, Gurung H, Jinkins J, Geltz J, **Wu JL**, Halford W, and Carr DJ. A Highly Efficacious HSV-1 Vaccine Blocks Viral Pathogenesis and Prevents Corneal Immunopathology Via Humoral. *Journal of Virology*. Accepted for publication March 2016.
3. **Lee JC**, Wang MY, Damodar D, Sadun AA, Satta SR. Headache and whiteout vision as the presenting symptoms in a case of Takayasu Retinopathy. *Retinal Cases & Brief Reports*. 2014; 8(4):273-275.
4. **Lee JC**, Chiu G, Bach D, Irvine J, Heur JM. Functional and visual improvement of the Prosthetic Replacement of the Ocular Surface Ecosystem (PROSE) for irregular astigmatism. *Cornea*. 2013; 32(12):1540-1543.
5. **Lee JC**, Wong B, Srinivas S, Satta SR, Huang D, Fawzi, AA. Doppler Fourier-domain optical coherence tomography measurement of the effect of panretinal photocoagulation on retinal blood flow in poorly controlled diabetic proliferative diabetic retinopathy. *Invest Ophthalmol Vis Sci*. 2013; 54(9):6104-6111.

6. Khine, K, Lee, JC, Hwang, J, Francis, BA, Boyer, DS. Methyl-Sulfonyl-Methane (MSM)-Induced Acute Angle Closure. *Journal of Glaucoma*. 2013; November 14. (Epub ahead of print)
7. Lee JC and Shields MB. Horizontal Deviation of Retinal Nerve Fiber Layer Peak Thickness with Stratus Optical Coherence Tomography in Glaucoma Patients and Glaucoma Suspects. *Journal of Glaucoma*. 2010; 19:299-303.
8. Lee JC, Prado HS, Diniz JB, Miguel EC, Leckman JF, Rosario MC. Perfectionism and Sensory Phenomena: Possible Phenotypic Components of Obsessive-Compulsive Disorder. *Comprehensive Psychiatry*. 2009; 50:431-436.
9. Lee JC and Salchow DJ. Myelinated retinal nerve fibers associated with hyperopia and amblyopia. *Journal of AAPOS*. 2008; 12: 418-419.
10. Prado HS, Rosario MC, Lee JC, Hounie AG, Shavitt RG, Miguel EC. Sensory Phenomena in Obsessive-Compulsive Disorder and Tic Disorders: a review of the literature. *CNS Spectrums*. 2008; 13: 425-432.

Presentations:

1. ARVO 2016, Seattle, Washington
2. ARVO 2013, Fort Lauderdale, Florida
3. ARVO 2012, Fort Lauderdale, Florida
4. Yale Medical School Student Research Day 2009, New Haven, Connecticut

Professional Memberships:

American Academy of Ophthalmology (AAO)
Association for Research in Vision and Ophthalmology (ARVO)
Cornea Society
American Society of Cataract and Refractive Surgery (ASCRS)
Oklahoma Academy of Ophthalmology (OAO)

Languages:

- Fluent in Spanish (Spoken)
- Fluent in Chinese (Mandarin) (Spoken)

Community Service:

Volunteer Alumni Interviewer for Yale College Admissions