



51<sup>ST</sup> ANNUAL  
FALL SCIENTIFIC SYMPOSIUM  
November 20-22, 2020 • Virtual Meeting

*2020: Vision for the Future*

PROGRAM





Catherine J. Hwang,  
MD, FACS  
ASOPRS  
Program Chair



Cat N. Burkat, MD, FACS  
ASOPRS Fall Program  
Co-Chair



Mark J. Lucarelli,  
MD, FACS  
ASOPRS President

Welcome to the 51st Annual American Society of Ophthalmic Plastic and Reconstructive Surgery (ASOPRS) Fall Scientific Symposium: **2020: Vision for the Future**. What an eventful and challenging year! Although we will miss seeing each other in person, our virtual platform provides a great forum to share updates in oculofacial plastic surgery, renew old friendships, and meet new colleagues from around the world. We look forward to connecting during this global pandemic and look toward the future.

The **LIVE** program includes renowned national and international speakers in oculofacial plastic surgery. In addition to high quality scientific presentations in orbit, eyelid, lacrimal disease, pediatric, oncology, and aesthetic surgery, expert moderators and the ability to communicate with questions from the audience will make this virtual meeting interactive.

Our featured speakers include **Chytra Anand**, a world-renowned dermatologist from India, who will teach us her tips and tricks on “A Methodical Approach to Periorbital Hyperpigmentation” and “Chemical Peels for the Periorbital Area in Skin of Color.” Our ASOPRS Foundation Michael J. Hawes lecturer will be **Gregory Mueller**, a leading Beverly Hills plastic surgeon, sharing “Innovating in Aesthetic Surgery: Bringing Ideas to Reality.” He will also be co-presenting the Neck and Jaw Rejuvenation breakout session. **Kyung In Woo** will enrich our eyelid section by discussing “Asian Blepharoplasty Pearls.” In addition, **Wendy Lee** will deliver the Henry I. Baylis Cosmetic Surgery Award Lecture, “Beauty and the Beast: What Drives Some Toward Aesthetics”.

Don't miss the **On Demand** narrated presentations, posters and surgical videos on our virtual platform. They will be available before and after the meeting for your viewing pleasure.

Please make a point to visit our gracious sponsors and exhibitors in the virtual **Exhibit Hall**. You will be able to interact with exhibitor representatives for 30 minutes before the program each day via ZOOM links within the virtual booths. Visiting the vendor exhibits presents great opportunities to learn about the latest commercial products and services and to make industry connections to help your practice. In addition, please consider attending the industry-sponsored **Product Theaters** on Saturday before the meeting, with Genentech and Horizon Therapeutics.

We hope you enjoy this year's program! We thank our colleagues who submitted their superb work and the Abstract Reviewers and CME Subcommittee who reviewed the enormous number of high-quality submissions. We would also like to thank **Tisha Kehn** and **Amanda Macrina** for their outstanding efforts to produce what we anticipate will be a wonderful virtual meeting.

Our members and your support of our organization make ASOPRS what it is today. ASOPRS strives for the highest standards in clinical care, education, and innovation in oculofacial plastic surgery, and those standards continues to advance. It is a privilege to serve as your program chairs and president and we look forward to interacting with you during the Fall Virtual Meeting.

Here's to 2020: Vision for the Future!

Catherine J. Hwang, MD, FACS  
ASOPRS Program Chair

Cat N. Burkat, MD, FACS  
ASOPRS Fall Program Assistant Chair

Mark J. Lucarelli, MD, FACS  
ASOPRS President

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# Program at a Glance

## All times listed in Central Time

### Friday, November 20

5:30 – 6 pm	Visit Exhibit Hall (Non-CME)
6 – 8 pm	<b>General Session</b>
6:04 – 6:24 pm	YASOPRS Rapid Fire Cases and Presentations
6:24 – 6:47 pm	Eyelid Session
6:47 – 7:08 pm	ASOPRS Invited Speaker: Kyung In Woo <i>Asian Blepharoplasty Pearls</i>
7:08 – 8 pm	Orbit I: Orbital Inflammation/TED

### Saturday, November 21

10 – 11 am	<b>PRODUCT THEATER</b> (Non-CME) <i>There May Be More to Advanced BCC Than Meets the Eye</i> Presented by Genentech
10 – 11 am	<b>PRODUCT THEATER</b> (Non-CME) <i>TEPEZZA: A Breakthrough Medicine for the Treatment of Thyroid Eye Disease (TED)</i> Presented by Horizon Therapeutics
10:30 – 11 am	Visit Exhibit Hall (Non-CME)
11 am – 2 pm	<b>General Session</b>
11:03 – 11:40 am	Featured Speaker: <b>Chytra V. Anand, MBBS, MD</b> <i>A Methodical Approach to Periorbital Hyper Pigmentation Chemical Peels for the Periorbital Area in Skin of Color</i>
11:40 am – 12:05 pm	You've Got Nerve
12:05 – 12:44 pm	ASOPRS' Got Talent – Surgical Videos
12:44 – 1:15 pm	Thesis Presentations
1:15 – 1:20 pm	ASOPRS Awards Session
1:30 – 2 pm	<b>Breakouts</b>
	<b>1: Neck &amp; Jaw Rejuvenation</b> – Gregory Mueller, Julie A. Woodward
	<b>2: Efficiency and Virtual Scribing in Your Practice</b> – Mark J. Lucarelli, Michael E. Migliori

	<b>3: Fat &amp; Fillers Pearls</b> – Alan B. Brackup, Cynthia A. Boxrud
	<b>4. Nuances in Browlifting</b> – Tanuj Nakra, Evan H. Black
	<b>5: Practical Lasers for Your Practice</b> – Brett S. Kotlus, Flora Levin
	<b>6: Corneal Neurotization 101</b> – Steven M. Couch, Cat N. Burkat
	<b>7: Eyelid: Difficult Reconstructions &amp; Complications</b> – Nicholas Mahoney, Alexander D. Blandford
	<b>8: Updates in TED Surgery</b> – Louise A. Mawn, Raymond S. Douglas
	<b>9: Coding Update (Sponsored by YASOPRS)</b> – L. Neal Freeman, Javier Servat

2 – 2:30 pm

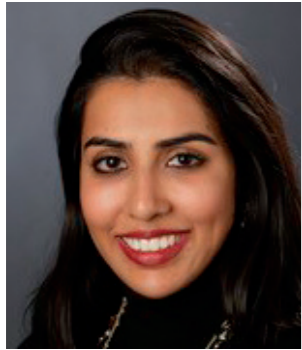


ASOPRS Business Meeting  
(All members are invited  
and encouraged to attend)

### Sunday, November 22

10:30 – 11 am	Visit Exhibit Hall (Non-CME)
11 am – 2:15 pm	<b>General Session</b>
11:02 – 11:24 am	Lacrimal/Pediatrics Session
11:24 – 11:50 am	ASOPRS Foundation Michael J. Hawes Lecture <b>Gregory Mueller, MD</b> <i>Innovating in Aesthetic Surgery: Bringing Ideas to Reality</i>
11:50 am – 12:16 pm	Aesthetics Session
12:16 – 12:45 pm	Henry I. Baylis Cosmetic Surgery Award Lecture: <b>Wendy W. Lee</b> <i>Beauty and the Beast: What Drives Some Toward Aesthetics</i>
12:45 – 1:16 pm	Oncology Session
1:16 – 1:46 pm	Orbit II
1:46 – 2:10 pm	Practice Management Session
2:15 pm	Adjourn

# Featured Faculty



## Chytra V. Anand, MBBS, MD

Saturday, November 21

11:05 am CT: *A Methodical Approach to Periorbital Hyper Pigmentation*

11:15 am CT: *Chemical Peels for the Periorbital Area in Skin of Color*

Dr. Chytra V. Anand is a renowned Celebrity Cosmetic Dermatologist from Bangalore, India. She is the founder of India's Leading Medical Aesthetic Chain Kosmoderma dedicated to unparalleled excellence in the field of Advanced Dermatology, Cosmetology and Trichology, currently having 7 clinics and 1 MediSpa where she heads a team of over 80 women. Kosmoderma, under her guidance, has clinics in Bangalore, Chennai and Hyderabad.

After completing her medical school in India, Dr. Anand went to London for further education where she did her Masters in Dermatology at the prestigious St. Johns Institute of Dermatology, Guys and St. Thomas Hospital, Kings College, London. Having attended an International Fellowship Program in Cosmetic Dermatology from Miller School of Medicine, Miami, she is experienced in treating various skin types.

She is an expert in Injectables and Cosmetic Therapies and is invited as a speaker and expert at various conferences, nationally and internationally. She is a prolific speaker and is sought after in the international conference circuits for her lectures. She has been featured on various Cosmetic Dermatology programs by BBC, Discovery Health, Channel 9, Zee Tv and writes articles in mainstream publications.

In 2007, Dr. Anand founded the International Academy of Aesthetic Medicine in India to train doctors in the field of Cosmetic Dermatology. Under her guidance the academy conducts intensive hands on training courses for doctors from around the globe. She has personally trained over 1,500 doctors in Aesthetic Medicine procedures and is credited with pioneering aesthetic medicine and cosmetic dermatology training in India.

Dr. Anand is popularly known as DR. FIX IT / BEAUTY DOC by her patients who swear by her expertise. She is fiercely protective of her patient's identities. She is considered to be the leading opinion former in India today.

In 2013, she was voted India's most Respected Cosmetic Dermatologist award by Pharma Leaders and awarded outstanding achiever of FICCI FLO and recognized as India's leading Medical Skin Care provider. She was runner up at Cannes Aesthetic Film festival in 2013 for her short film on Impact of Aesthetics in India. In 2014, Kosmoderma Clinics was recognized as India's Best Medical Aesthetic Clinic Chain at Indian health Summit. In 2015, Elle Magazine voted her as top 6 skin doctors in India to have on speed dial. In 2015 at World Congress of Dermatology, Vancouver, Dr. Anand was awarded the Rising Star in Soft Tissue Fillers. In 2016, Kosmoderma was voted India's Most Trusted Skin Clinic Chain. In 2018, Dr. Chytra was honored as a leading Woman Influencer in India.

She was a syndicate member of the executive council of Rajiv Gandhi University of Health Sciences (RGUHS), which is the governing body for medical and para medical education in the state of Karnataka. The Government nominated her for her pioneering work in her medical field of Cosmetic Dermatology.

Dr. Chytra founded her skin care company BeautyIQ in 2012 and has developed formulations to suit skin of colour. Currently the skincare offers a range of 18 products through Kosmoderma clinics and O & M for other doctors.

One of her passions is women in entrepreneurship and she is a mentor to numerous start-ups at an incubator in Noida.

# Featured Faculty



## Gregory Mueller, MD, FACS

Saturday, November 21

1:30-2 pm CT: *Neck and Jaw Rejuvenation Breakout*

Sunday, November 22

11:30-11:40 am CT: ASOPRS Foundation Michael J. Hawes Lecturer: *Innovating in Aesthetic Surgery: Bringing Ideas to Reality*

Dr. Gregory Mueller is a board-certified plastic surgeon who has practiced in Beverly Hills, California since 1998. He completed his plastic surgery residency at the University of Southern California after completing a general surgery residency at the University of California-Irvine. Dr. Mueller, a native of Nebraska, is a graduate of the University of Nebraska Medical Center. His life-long passion for medicine and plastic surgery has established his reputation as a skilled plastic surgeon and pioneer in the field of plastic surgery.

Dr. Mueller is the creator of light guided-suture delivery. This innovative concept was born when Mueller identified an area of plastic surgery that he believed could be improved. Focusing on a better way to address neck contours without surgically opening the neck led to the discovery that the dermal retaining ligaments of the face and neck have the needed tensile strength to support the anchoring of sutures. Mueller realized that the use of an illuminated sewing needle and attached thread would allow the safe and accurate delivery of sutures in the subcutaneous space in and around the dermal retaining ligaments, without the need to surgically open the neck. Mueller and Sherrell Aston published this novel approach in the *Aesthetic Surgery Journal* in January of 2012. In this paper, the performance of a cadaver study revealed that the tensile strength of the retaining ligaments was statistically the same as the medial platysma borders. In addition, the light transillumination feedback was confirmed as accurate regarding the depth of travel of the illuminated sewing rod.

Dr. Mueller also designed and constructed the first dynamic 360° imaging system. Mueller's frustration with obtaining perfectly standardized images led to the creation of a system that allows the subject to use visual cues to self center the face and/or body during every capture session. The camera and light source orbit around the face and body to capture consistent standardized images of the face and body repeatedly over time. Mueller recognized the importance of motion capture to understand and study the effects of aesthetic procedures and technology on both the physical form of the face and body along with the functionality and movement dynamics of the face and body. The workflows he developed capture all the necessary data to create a life-like digital medical record that allows the patient, provider, and other surgeons to understand the cause and effect of almost every aesthetic procedure. This technology is also being introduced into the military, security and entertainment industry.

Dr. Mueller is the author of several textbook chapters and peer reviewed papers. In addition, teaches colleagues around the globe how to perform his light guided surgical procedures.

Dr. Mueller's surgical and artistic skills coupled with his inventive mind show why he is both known and respected as a leading plastic surgeon and innovator.

# General Information

## Symposium Objectives

- To provide a forum for presentation of new concepts, ideas, techniques, and research in functional and aesthetic reconstructive oculofacial plastic surgery
- To discuss current practice management techniques and coding methods, access to care, safety, and professionalism in oculoplastic surgery
- To illustrate new advancements in medical and surgical management of orbital and eyelid tumors and inflammations
- To provide an update on the advancing field of oculoplastic surgery
- To allow ample time for discussion with experts of oculofacial and reconstructive surgery in a collegial atmosphere

## Target Audience

The ASOPRS Fall Scientific Symposium is developed for all interested physicians and related health care personnel including, but not limited to, oculofacial plastic and reconstructive surgeons, otolaryngologists, head and neck surgeons, facial plastic surgeons, dermatologic surgeons as well as general ophthalmologists. The meeting is also designed to be of interest to physicians in training and allied health personnel.

## ATTENDEE POLICY

As a registered attendee of the live-virtual meeting and/or a viewer of the recording of the meeting, you agree to the following and acknowledge if you disregard this policy you may be barred from attending future meetings:

### As an attendee of the live-virtual Fall Scientific Symposium, I agree:

- To not share my login credentials to the virtual meeting site with others.
- To not take photos or screen shots or make audio or video recordings of any portion of the meeting.
- The moderator may announce my name and read my question (if selected).
- To allow my participation in the Breakouts (voice and/or camera) to be recorded and shared with registrants post-meeting.

# General Information

## Continuing Medical Education

Continuing Medical Education information and Financial Disclosures can be found in the 2020 Virtual Fall Scientific Symposium Syllabus.

## Meeting Evaluation/CME Certificate

A link to an evaluation will be provided to attendees via email. You will have an opportunity to save a CME certificate once you have completed the evaluation. Your feedback is carefully considered when planning future meetings. Thank you in advance for helping ASOPRS improve our Scientific Symposium.

## Education Disclaimer

Registrants for this symposium understand that medical and scientific knowledge is constantly evolving and that the views and techniques of the instructors are their own and may reflect innovations and opinions not universally shared. The views and techniques of the instructors are not necessarily those of ASOPRS but are presented in this forum to advance scientific and medical education. ASOPRS disclaims any and all liability arising out the information presented in this meeting. Registrants also understand that operating rooms and health care facilities present inherent dangers and as such they shall confirm to all proper medical practices and procedures for the treatment of patients for whom no medical history is available.

## Industry Disclaimer

Industry promotional opportunities, including but not limited to tradeshow and product theaters, are provided for informational purposes. ASOPRS does not undertake to verify the claims of, or assess the products or services offered by, any company presenting during ASOPRS' meetings, nor does ASOPRS' receipt of a fee from, and provision of space to, such companies constitute an endorsement or recommendation by ASOPRS. Attendees must make their own independent judgments as to the advisability of entering into a business transaction.

## Code of Conduct: Anti-Harrassment Policy

## Conflict of Interest Policy and Procedure

## Cancellations

ASOPRS issued refunds, less a \$100 administrative fee, upon receipt of written notice on or before October 20, 2020. No refunds will be made after this date. Refunds will not be made for no-shows.

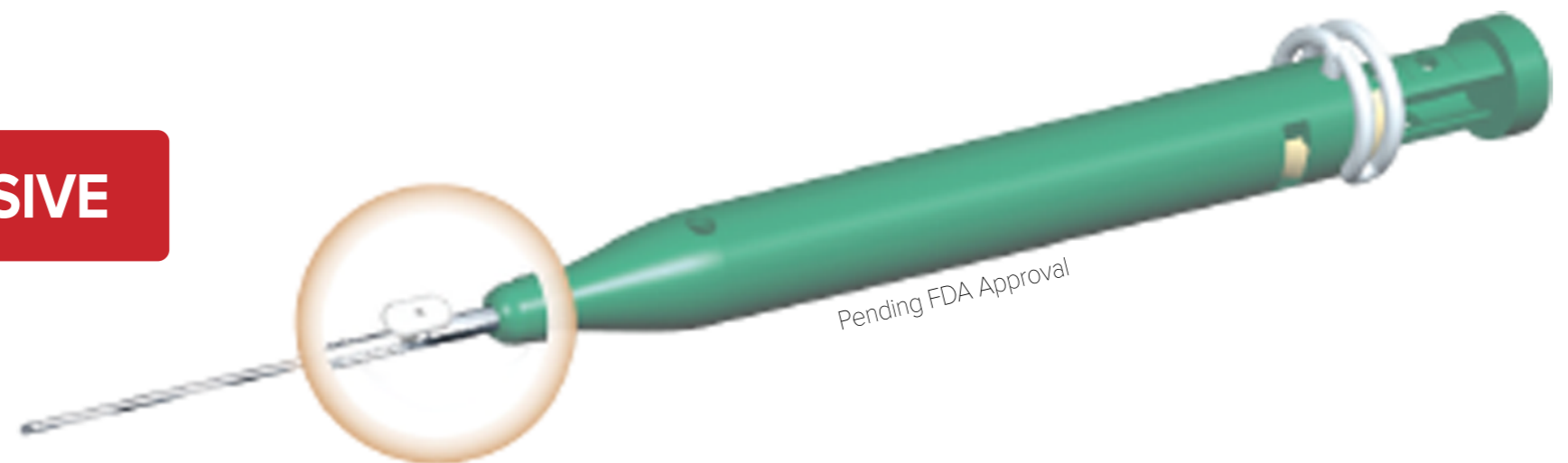




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## Friday, November 20

Program times below are Central Time (7 - 9 pm ET, 6 - 8 pm CT, 5 - 7 pm MT, 4 - 6 pm PT)

5:30 - 6 pm Visit Exhibit Hall (Non-CME)

### 6 - 8 pm GENERAL SESSION

6 - 6:04 pm **Welcome**  
Catherine J. Hwang, ASOPRS Program Chair  
Cat N. Burkat, ASOPRS Program Co-Chair  
Mark J. Lucarelli, ASOPRS President

### YASOPRS RAPID FIRE CASES AND PRESENTATIONS

*Moderators: Kian Eftekhari and Catherine Choi*

6:04 - 6:05 pm **Introduction of YASOPRS Rapid Fire Cases and Presentations Session**

6:05 - 6:08 pm **Publication Rates and Trends of Abstracts Presented at the American Society of Ophthalmic Plastic and Reconstructive Surgery Over a Twenty-Five-Year Period**

Carl Rebhun<sup>1</sup>, Ann Tran<sup>1,2</sup>, Andrea Tooley<sup>1,2</sup>, Sefy Paulose<sup>3</sup>, Eleanore Kim<sup>1</sup>, Irina Belinsky<sup>1</sup>, Richard Lisman<sup>1,2</sup>

<sup>1</sup>Oculoplastics, New York University Langone Health, New York, New York, United States, <sup>2</sup>Oculoplastics, Manhattan Eye, Ear, and Throat Hospital, Northwell Hospital, New York, New York, United States, <sup>3</sup>Ophthalmology, Drexel University College of Medicine, Philadelphia, Pennsylvania, United States

6:08 - 6:11 pm **A Simple Exophthalmometer Using Structured-Light 3D Scanning**

Nathan Pirakitikulr, Kevin Clauss, Andrew Rong  
*Bascom Palmer Eye Institute, Miami, Florida, United States*

6:11 - 6:14 pm **Secondary Periorbital Hollows: Clinical Differentiation from Primary Age-Related Lower Eyelid/Cheek Interface Depressions**

Yao Wang<sup>1</sup>, Raymond Douglas<sup>2</sup>, John Holds<sup>3</sup>, Guy Massry<sup>4</sup>

<sup>1</sup>Cedars-Sinai Medical Center, Los Angeles, California, United States, <sup>2</sup>Cedars-Sinai Medical Center, Los Angeles, California, United States, <sup>3</sup>Ophthalmic Plastic and Cosmetic Surgery, Inc, Des Peres, Missouri, United States, <sup>4</sup>Beverly Hills Ophthalmic Plastic and Reconstructive Surgery, Beverly Hills, California, United States

Program times below are Central Time

6:14 - 6:24 pm **Questions and Discussion**

## EYELID SESSION

*Moderators: Robert Goldberg and Tamara Fountain*

6:24 - 6:25 pm **Introduction of the Eyelid Session**

6:25 - 6:29 pm **Resetting the Brow: A Small-incision, Frontalis Advancement Approach to Brow Ptosis**

Allison J Chen<sup>1</sup>, Daniel J Ozzello<sup>1</sup>, Zvi Gur<sup>1</sup>, Catherine Liu<sup>1</sup>, Bobby S Korn<sup>1,2</sup>, Don O Kikkawa<sup>1,2</sup>

*<sup>1</sup>Division of Ophthalmic Plastic and Reconstructive Surgery, Shiley Eye Center and Viterbi Department of Ophthalmology, UC San Diego, La Jolla, California, United States, <sup>2</sup>Division of Plastic Surgery, UC San Diego, La Jolla, California, United States*

6:29 - 6:33 pm **Change in Eyelid Position between Photopic and Scotopic Conditions Suggests an Eyelid-Light Reflex**

Oded Sagiv<sup>1</sup>, Lital Smadar<sup>1</sup>, Noa Kapelushnik<sup>1</sup>, Tal Serlin<sup>1</sup>, Daphna Prat<sup>2</sup>, Ayelet Priel<sup>1</sup>, Guy J. Ben-Simon<sup>1</sup>, Ari Leshno<sup>1</sup>

*<sup>1</sup>The Goldschleger Eye Institute, Sheba Medical Center, affiliated to the Sackler Faculty of Medicine, Tel Aviv University, Tel-Hashomer, Israel, <sup>2</sup>Tel-Hashomer, Israel*

6:33 - 6:37 pm **Outcomes of Muller's Muscle Conjunctival Resection after previous Ptosis Surgery**

Kevin Heinze<sup>1</sup>, Chau Pham<sup>1,2</sup>, Pete Setabutr<sup>1</sup>

*<sup>1</sup>Ophthalmology, University of Illinois at Chicago, Chicago, Illinois, United States, <sup>2</sup>Ophthalmology and Visual Sciences, University of Iowa, Iowa City, Iowa, United States*

6:37 - 6:47 pm **Questions and Discussion**

6:47 - 6:48 pm **Introduction of ASOPRS Invited Speaker: Kyung In Woo**

6:48 - 6:58 pm **Asian Blepharoplasty Pearls**

Kyung In Woo

*Samsung Medical Center, Seoul, Korea, Republic of*

6:58 - 7:08 pm **Questions and Discussion**

## ORBIT I: ORBITAL INFLAMMATION/TED

Moderators: Michael Kazim and Rona Z. Silkiss

7:08 – 7:10 pm **Introduction of the Orbital Inflammation/TED Session and Survey**

7:10 – 7:14 pm **Identifying Shared Pathways in Orbital Inflammatory Diseases: A Microarray Analysis of IGF-1R, PPAR, Adipocytokine and AMPK Signaling Cascades**

Rohan Verma<sup>1</sup>, Dongseok Choi<sup>2</sup>, Allison Chen<sup>3</sup>, Christina Harrington<sup>4</sup>, David Wilson<sup>1</sup>, Hans Grossniklaus<sup>5</sup>, Roger Dailey<sup>1</sup>, John Ng<sup>6</sup>, Eric Steele<sup>1</sup>, Stephen Planck<sup>1</sup>, Bobby Korn<sup>3</sup>, Don Kikkawa<sup>3</sup>, Craig Czyz<sup>7</sup>, Jill Foster<sup>8</sup>, Michael Kazim<sup>9</sup>

<sup>1</sup>Casey Eye Institute, Oregon Health & Science University, Portland, Oregon, United States, <sup>2</sup>Department of Medicine, Oregon Health & Science University, Portland, Oregon, Casey Eye Institute, Oregon Health & Science University, Portland, Oregon, United States, <sup>3</sup>Shiley Eye Institute and Viterbi Department of Ophthalmology, UC San Diego, La Jolla, California, United States, <sup>4</sup>Integrated Genomics Laboratory, Oregon Health & Science University, Portland, Oregon, United States, <sup>5</sup>Department of Ophthalmology, Emory University, Atlanta, Georgia, United States, <sup>6</sup>Division of Oculofacial Plastics, Orbital and Reconstructive Surgery, Casey Eye Institute, Oregon Health & Science University, Portland, Oregon, United States, <sup>7</sup>Ohio University, Columbus, Ohio, United States, <sup>8</sup>Ohio State University, Columbus, Ohio, United States, <sup>9</sup>Columbia University, Edward S Harkness Eye Institute, New York, New York, United States

7:14 – 7:18 pm **Idiopathic Dacryoadenitis Treated with Intralesional Rituximab – 7-Year Follow-up**

Jin Kyun Oh<sup>1</sup>, Roman Shinder<sup>2</sup>

<sup>1</sup>Ophthalmology, SUNY Downstate Medical Center, Brooklyn, New York, United States, <sup>2</sup>Ophthalmology, Otolaryngology, SUNY Downstate Medical Center, Brooklyn, New York, United States

7:18 – 7:22 pm **Radiographic Analysis of Fatty Infiltration of the Extraocular Muscles in Thyroid Eye Disease**

Liza Cohen<sup>1</sup>, Victor Liou<sup>2,3</sup>, Mary Elizabeth Cunnane<sup>4,5</sup>, Michael Yoon<sup>2,3</sup>

<sup>1</sup>Division of Orbital and Ophthalmic Plastic Surgery, Stein and Doheny Eye Institutes, University of California, Los Angeles, Los Angeles, California, United States, <sup>2</sup>Ophthalmic Plastic Surgery, Massachusetts Eye and Ear, Boston, Massachusetts, United States, <sup>3</sup>Ophthalmology, Harvard Medical School, Boston, Massachusetts, United States, <sup>4</sup>Neuroradiology, Massachusetts Eye and Ear, Boston, Massachusetts, United States, <sup>5</sup>Radiology, Harvard Medical School, Boston, Massachusetts, United States

7:22 – 7:26 pm **Improvement of Dysthyroid Optic Neuropathy Following Teprotumumab Infusion**

Helen Merritt<sup>1</sup>, Margaret L. Pfeiffer<sup>2</sup>, James Merritt<sup>1</sup>

<sup>1</sup>Oculoplastic Associates of Texas, Dallas, Texas, United States, <sup>2</sup>Key-Whitman Eye Center, Dallas, Texas, United States

Program times below are Central Time

7:26 – 7:30 pm	<b>Initial Results of Teprotumumab for Chronic Thyroid Eye Disease</b> Daniel Ozzello, Liane Dallalzadeh, Clara Men, Zvi Gur, Catherine Liu <i>Division of Oculofacial Plastic and Reconstructive Surgery, Shiley Eye Institute, University of California San Diego, San Diego, California, United States</i>
7:30 – 7:59 pm	<b>Questions and Discussion</b>
7:59 – 8 pm	<b>Closing</b>

## Saturday, November 21

Program times below are Central Time (12 – 3:30 pm ET, 11 am – 2:30 pm CT, 10 am – 1:30 pm MT, 9 am – 12:30 pm PT)

10 – 11 am **Product Theater (Non-CME)**  
*There May Be More to Advanced BCC Than Meets the Eye*  
Presented by Genentech

10 – 11 am **Product Theater (Non-CME)**  
*TEPEZZA: A Breakthrough Medicine for the Treatment of Thyroid Eye Disease (TED)*  
Presented by Horizon Therapeutics

10:30 – 11 am **Visit Exhibit Hall (Non-CME)**

### 11 am – 2 pm **GENERAL SESSION**

11 – 11:03 am **Welcome**  
Catherine J. Hwang, ASOPRS Program Chair  
Cat N. Burkat, ASOPRS Program Co-Chair

Program times below are Central Time

## Featured Speaker: Chytra V. Anand, MBBS, MD

*Moderator: Kenneth D. Steinsapir*

- 11:03 – 11:05 am      **Introduction of Dr. Anand**  
Catherine J. Hwang
- 11:05 – 11:15 am      **A Methodical Approach to Periorbital Hyper Pigmentation**  
Chytra V. Anand, MBBS, MD
- 11:15 – 11:25 am      **Chemical Peels for the Periorbital Area in Skin of Color**  
Chytra V. Anand, MBBS, MD
- 11:25 – 11:40 am      **Questions and Discussion**

## YOU'VE GOT NERVE

*Moderators: Michael T. Yen and William R. Katowitz*

- 11:40 – 11:42 am      **Introduction of the You've Got Nerve Session and Survey**
- 11:42 – 11:46 am      **The Use of Nerve Conduits in Trigeminal Nerve Repair**  
Robert Beaulieu<sup>1,2,3</sup>, Austin Pharo<sup>1,3</sup>, Alon Kahana<sup>1,3</sup>  
*<sup>1</sup>Consultants in Ophthalmic and Facial Plastic Surgery, Southfield, Michigan, United States, <sup>2</sup>Department of Ophthalmology, Kresge Eye Institute, Detroit Medical Center, Detroit, Michigan, United States, <sup>3</sup>Department of Ophthalmology, Oakland University William Beaumont School of Medicine, Rochester, Michigan, United States*
- 11:46 – 11:50 am      **Corneal Neurotization Using Acellular Nerve Allograft and Porcine Submucosa Extracellular Matrix Coaptation Aid**  
Stephen Ambrose<sup>1</sup>, Yong Kam<sup>1</sup>, Peter Timoney<sup>2</sup>, Jason Sokol<sup>1</sup>  
*<sup>1</sup>Ophthalmology, University of Kansas, Prairie Village, Kansas, United States, <sup>2</sup>Ophthalmology, University of Kentucky, Lexington, Kentucky, United States*
- 11:50 am – 12:05 pm      **Questions and Discussion**

## ASOPRS' GOT TALENT: SURGICAL VIDEOS

*Moderators: Hui Bae Harold Lee and Jill A. Foster*

- 12:05 – 12:07 pm      **Introduction of the ASOPRS' Got Talent Session**

Program times below are Central Time

12:07 - 12:09 pm	<b>Combined Chondromucosal Graft and Cervicofacial Flap: The “Kitchen Sink” Treatment for Severe, Recalcitrant Lower Eyelid Retraction</b> Emily Li, Arash J. Amadi <i>Ophthalmology, University of Washington School of Medicine, Seattle, Washington, United States</i>
12:09 - 12:11 pm	<b>Moderator Comments</b>
12:11 - 12:13 pm	<b>A Variation of the Reverse Modified Hughes Flap Procedure for Total Upper Eyelid Reconstruction</b> Nicol West <sup>1</sup> , Nick Fowler <sup>2</sup> , Kevin Tomasko <sup>2</sup> , Peter Timoney <sup>2</sup> , Eric Peterson <sup>2</sup> <i><sup>1</sup>Ophthalmology Residency, University of Kentucky, Lexington, Kentucky, United States, <sup>2</sup>Lexington, Kentucky, United States</i>
12:13 - 12:15 pm	<b>Moderator Comments</b>
12:15 - 12:17 pm	<b>Reconstruction of Upper and Lower Eyelid Defects following Tumor Resection with a Bipedicle (Bucket Handle) Myocutaneous Flap</b> Zvi Gur, Daniel Ozzello, Clara Men, Catherine Liu, Don Kikkawa, Bobby Korn <i>Ophthalmology, UC San Diego, La Jolla, California, United States</i>
12:17 - 12:19 pm	<b>Moderator Comments</b>
12:19 - 12:21 pm	<b>Hinged V-Y Flap for Reconstruction of Medial Canthal Defects</b> Brian Chon, Erin Nichols, Catherine Hwang, Julian Perry <i>Ophthalmology, Cleveland Clinic, Cleveland, Ohio, United States</i>
12:21 - 12:23 pm	<b>Moderator Comments</b>
12:23 - 12:25 pm	<b>OY! That’s a Nice Flap</b> Scott Goldstein <i>Vantage EyeCare, Philadelphia, Pennsylvania, United States</i>
12:25 - 12:27 pm	<b>Moderator Comments</b>
12:27 - 12:28 pm	<b>Survey: Which Technique Will You Try First?</b>
12:28 - 12:43 pm	<b>Questions and Discussion</b>
12:43 - 12:44 pm	<b>Announcement of Winner</b>

## ASOPRS THESIS SESSION

Moderators: Erin M. Shriver and Benjamin P. Erickson

- 12:44 - 12:45 pm      **Introduction of Thesis Session**
- 12:45 - 12:47 pm      **Introduction of the Marvin H. Quickert Thesis Award Candidate Presentations**  
Erin M. Shriver, Thesis Committee
- 12:47 - 12:51 pm      **Combination 5-Fluorouracil and Microneedling Therapy for Wound Modification: A Histologic Murine Study**  
Alison Watson<sup>1</sup>, Hannah O'Mary<sup>2</sup>, Zhenrong Cui<sup>2</sup>, Susan Baer<sup>3</sup>, Marie Somogyi<sup>4</sup>, Natalie Homer<sup>4</sup>, Sean Blaydon<sup>4</sup>, Jonathan Huggins<sup>5</sup>, John Shore<sup>4</sup>, Vikram Durairaj<sup>4</sup>, Tanuj Nakra<sup>4</sup>  
*<sup>1</sup>Oculoplastic and Orbital Surgery, Wills Eye Hospital, Philadelphia, Pennsylvania, United States, <sup>2</sup>Pharmaceutics Division, The University of Texas at Austin, Austin, Texas, United States, <sup>3</sup>Dermatopathology, Clinical Pathology Associates, Austin, Texas, United States, <sup>4</sup>Oculoplastic and Orbital Surgery, TOC Eye and Face, Austin, Texas, United States, <sup>5</sup>Perelman School of Medicine, The University of Pennsylvania, Philadelphia, Pennsylvania, United States*
- 12:51 - 12:55 pm      **The Tunneled Paramedian Forehead Flap for Medial Canthal and Eyelid Reconstruction**  
Wesley Brundridge<sup>1,2</sup>, Dimitrios Sismanis<sup>3</sup>, Adam Altman<sup>4</sup>, David Holck<sup>1</sup>, Chris DeBacker<sup>1</sup>  
*<sup>1</sup>Eyeplastx, San Antonio, Texas, United States, <sup>2</sup>US Army, San Antonio, Texas, United States, <sup>3</sup>Virginia Oculofacial Surgeons, Virginia, United States, <sup>4</sup>USAF, <sup>59</sup>th Medical Wing, San Antonio, Texas, United States*
- 12:55 - 12:59 pm      **Association of Age-Adjusted Charlson Comorbidity Index with Orbital Fungal Disease Outcomes**  
Anna Kupcha<sup>1</sup>, Brittany Simmons<sup>2</sup>, James Law<sup>3</sup>, Yuhan Liu<sup>4</sup>, Qingxia Chen<sup>4</sup>, Erin Shriver<sup>2</sup>, Eric Brown<sup>1</sup>, Louise Mawn<sup>1</sup>  
*<sup>1</sup>Ophthalmology, Vanderbilt University Medical Center, Nashville, Tennessee, United States, <sup>2</sup>Ophthalmology, University of Iowa, Iowa City, Iowa, United States, <sup>3</sup>Vanderbilt University School of Medicine, Nashville, Tennessee, United States, <sup>4</sup>Biostatistics, Vanderbilt University Medical Center, Nashville, Tennessee, United States*
- 12:59 - 1:14 pm      **Discussion**
- 1:14 - 1:15 pm      **Marvin H. Quickert Thesis Award Presentation and Introduction of Awards Session**  
Presented by Erin M. Shriver, Thesis Committee



Program times below are Central Time

## ASOPRS AWARDS SESSION

1:15 - 1:20 pm

### ASOPRS Awards Presentations

Bitá Esmaeli, Awards Committee Chair

**Lester T. Jones Surgical Anatomy Award** - Mohammad Javed Ali

**Merrill Reeh Pathology Award** - Ivan Vrcek, Roland Blumer, Alexander D. Blandford, Marie Somogyi, Vikram D. Durairaj, Sean M. Blaydon, John W. Shore, Malena M. Amato, and Tanuj Nakra

**ASOPRS Research Award** - Shoaib Ugradar and Jonathan Hoenig

**Henry Baylis Cosmetic Surgery Award** - Wendy W. Lee

1:20 - 1:30 pm

### Transition to Breakouts

1:30 - 2 pm

## BREAKOUTS

### 1: Neck and Jaw Rejuvenation - Gregory Mueller, Julie A. Woodward

Moderator: Bradford W. Lee

### 2: Efficiency and Virtual Scribing in Your Practice - Mark J. Lucarelli, Michael E. Migliori

Moderator: Sathyadeepak Ramesh

### 3: Fat and Fillers Pearls - Alan B. Brackup, Cynthia A. Boxrud

Moderator: Srinivas S. Iyengar

### 4. Nuances in Browlifting - Tanuj Nakra, Evan H. Black

Moderator: Pete Setabutr

### 5: Practical Lasers for Your Practice - Brett S. Kotlus, Flora Levin

Moderator: David B. Lyon

### 6: Corneal Neurotization 101 - Steven M. Couch, Cat N. Burkat

Moderator: Michael T. Yen

### 7: Eyelid: Difficult Reconstructions and Complications - Nicholas Mahoney, Alexander D. Blandford

Moderator: M. Reza Vagefi

Program times below are Central Time

**8: Updates in TED Surgery – Louise A. Mawn, Raymond S. Douglas**

Moderator: Bryan J. Winn

**9: Coding Update (Sponsored by YASOPRS) – L. Neal Freeman, Javier Servat**

Moderator: Chris R. Alabiad

2 – 2:30 pm

**ASOPRS Business Meeting and International Associate New Member Inductions**

*(All members are invited and encouraged to attend)*

**Robert H. Kennedy Presidential Award – Daniel P. Schaefer**

Presented by Mark J. Lucarelli, ASOPRS President

## Sunday, November 22

Program times below are Central Time (12 – 3:10 pm ET, 11 am – 2:10 pm CT, 10 am – 1:10 pm MT, 9 am – 12:10 pm PT)

10:30 – 11 am

**Visit Exhibit Hall (Non-CME)**

11 am – 2:15 pm

**GENERAL SESSION**

11 – 11:02 am

**Welcome**

Catherine J. Hwang, ASOPRS Program Chair

Cat N. Burkat, ASOPRS Program Co-Chair

**LACRIMAL/PEDIATRICS SESSION**

*Moderators: Kenneth V. Cahill and Anne Barmettler*

11:02 – 11:03 am

**Introduction of Lacrimal/Pediatrics Session**

11:03 – 11:07 am

**Chronological Analysis of Tear Dynamics on Blinking using Quantitative Manometry in Healthy Humans**

Yohei Sato, Masashi Mimura, Yasushi Fujita, Hidehiro Oku, Tsunehiko Ikeda

*Department of Ophthalmology, Osaka Medical College, Takatsuki-City, Japan*

11:07 – 11:11 am

**Pediatric Acute Dacryocystitis**

Daphna Prat<sup>1</sup>, Katie Magoon<sup>2</sup>, James Katowitz<sup>2</sup>, William Katowitz<sup>2</sup>

*<sup>1</sup>Sheba Medical Center, Tel Hashomer, Israel, <sup>2</sup>Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, United States*

Program times below are Central Time

11:11 – 11:15 am

## **Adjunctive Mucosal 5-FU Injections Improve Outcomes in Pediatric DCR**

Alon Kahana<sup>1,2</sup>, Tomas Meijome<sup>3</sup>, Adam Jacobson<sup>4</sup>

<sup>1</sup>Consultants in Ophthalmic and Facial Plastic Surg, Southfield, Michigan, United States, <sup>2</sup>Ophthalmology, Oakland University William Beaumont School of Medicine, Rochester, Michigan, United States, <sup>3</sup>University of Michigan Medical School, Ann Arbor, Michigan, United States, <sup>4</sup>Ophthalmology and Visual Sciences, University of Michigan Kellogg Eye Center, Ann Arbor, Michigan, United States

11:15 – 11:24 am

## **Questions and Discussion**

## **ASOPRS FOUNDATION UPDATE AND MICHAEL J. HAWES LECTURE**

*Moderators: Cat N. Burkat and Catherine J. Hwang*

11:24 – 11:25 am

## **Introduction of ASOPRS Foundation Update and Michael J. Hawes Lecture**

11:25 – 11:30 am

## **ASOPRS Foundation Update and Introduction of Michael J. Hawes Lecturer: Gregory P. Mueller, MD, FACS**

Jan W. Kronish, ASOPRS Foundation Board Chair

11:30 – 11:40 am

## **Innovating in Aesthetic Surgery: Bringing Ideas to Reality**

Gregory P. Mueller, MD, FACS

11:40 – 11:50 am

## **Questions and Discussion**

## **AESTHETICS SESSION**

*Moderators: Angelo Tsirbas and Julie A. Woodward*

11:50 – 11:51 am

## **Introduction of Aesthetics Session**

11:51 – 11:55 am

## **Laser vs. Modified-phenol Peels vs. TCA: Tips on Safely Optimizing Skin Enhancement in Combination with Facelift Surgery**

Alan Brackup

*University of Pennsylvania Scheie Eye Institute, Langhorne, Pennsylvania, United States*

11:55 – 11:59 am

## **Do Fillers Cause Blood Clots? A Quantitative Thrombodynamics Study**

Shoaib Ugradar, Cynthia Boxrud

*Oculoplastics, UCLA, Los Angeles, California, United States*

Program times below are Central Time

11:59 am - 12:03 pm **The Use of Tranexamic Acid in Oculofacial Plastic Surgery**  
John Martin  
*Miami, Florida, United States*

12:03 - 12:16 pm **Questions and Discussion**

## HENRY I. BAYLIS COSMETIC SURGERY AWARD LECTURE

*Moderator: Norman Shorr*

12:16 - 12:17 pm **Introduction of Hentry Baylis Cosmetic Surgery Award Lecture Session**

12:17 - 12:20 pm **Introduction of the Henry I. Baylis Award Lecturer: Wendy W. Lee**  
Norman Shorr

12:20 - 12:35 pm **Beauty and the Beast: What Drives Some Toward Aesthetics**  
Wendy W. Lee

12:35 - 12:45 pm **Questions and Discussion**

## ONCOLOGY SESSION

*Moderators: Nahyoung Grace Lee and Bitia Esmaeli*

12:45 - 12:46 pm **Introduction of Oncology Session**

12:46 - 12:50 pm **Efficacy for Differentiating Benign and Malignant Eyelid Tumors Using Deep Learning Systems**

Min Joung Lee<sup>1</sup>, Sang In Khwarg<sup>2</sup>, Bum-Joo Cho<sup>1,3</sup>, Min Kyu Yang<sup>4</sup>, Eun Kyu Oh<sup>5</sup>

<sup>1</sup>Ophthalmology, Hallym University College of Medicine, Hallym University Sacred Heart Hospital, Anyang, Korea, Republic of,  
<sup>2</sup>Ophthalmology, Seoul National University College of Medicine, Seoul, Korea, Republic of, <sup>3</sup>Medical Artificial Intelligence Center, Hallym University Medical Center, Anyang, Other, <sup>4</sup>Ophthalmology, Seoul National University Hospital, Seoul, Korea, Republic of, <sup>5</sup>S Eye Center, Ansan, Korea, Republic of

12:50 - 12:54 pm **Second Primary Neoplasms in Patients with Sebaceous Cell Carcinoma of the Eyelid: A Population-Based Study, 2000 to 2016**

Abanoob Tadrosse, Marina Tadrosse, Sandra Mikhael, Paul Langer

*Institute of Ophthalmology and Visual Science, Rutgers New Jersey Medical School, Newark, New Jersey, United States*

Program times below are Central Time

- 12:54 - 12:58 pm      **Therapeutic Outcomes of Sphenoid Wing Meningioma with Orbital Invasion and Factors Influencing Recurrence**  
Ann Tran<sup>1</sup>, Arpita Maniar<sup>1</sup>, Andrea Tooley<sup>1</sup>, Michael Sisti<sup>2</sup>, Jeffrey Bruce<sup>2</sup>, Michael Kazim<sup>1</sup>  
*<sup>1</sup>Oculoplastic and Orbital Surgery, Edward S. Harkness Eye Institute, Columbia University Irving Medical Center, New York-Presbyterian Hospital, New York City, New York, United States, <sup>2</sup>Neurosurgery, Columbia University Irving Medical Center, New York-Presbyterian Hospital, New York City, New York, United States*
- 12:58 - 1:02 pm      **Acellular Cadaveric Dermal Matrix (ACDM) Grafts vs Non-ACDM Grafts for Orbital Wall Reconstruction in Patients with Sinonasal Malignancies**  
Rohan Verma<sup>1</sup>, Mathew Geltzeiler<sup>2</sup>, Mark Wax<sup>3</sup>, Roger Dailey<sup>4</sup>, John Ng<sup>4</sup>  
*<sup>1</sup>Division of Oculofacial Plastic and Reconstructive Surgery, Casey Eye Institute, Oregon Health & Science University, Casey Eye Institute, Portland, Oregon, United States, <sup>2</sup>Department of Otolaryngology-Head and Neck Surgery, Oregon Health & Science University, Portland, Oregon, United States, <sup>3</sup>Portland, Oregon, United States, <sup>4</sup>Division of Oculofacial Plastic and Reconstructive Surgery, Casey Eye Institute, Oregon Health & Science University, Portland, Oregon, United States*
- 1:02 - 1:16 pm      **Questions and Discussion**

## ORBIT SESSION II

*Moderators: Gerald J. Harris and Elizabeth A. Bradley*

- 1:16 - 1:17 pm      **Introduction of Orbit Session II**
- 1:17 - 1:21 pm      **The Effect of Body Mass Index on Orbital Volume**  
Maria Garcia<sup>1</sup>, David Hodge<sup>2</sup>, Elizabeth Bradley<sup>1</sup>  
*<sup>1</sup>Ophthalmology, Mayo Clinic, Rochester, Minnesota, United States, <sup>2</sup>Statistics, Mayo Clinic, Rochester, Minnesota, United States*
- 1:21 - 1:25 pm      **Where Does It End? Adjunctive Retrobulbar Amphotericin B Injections for the Treatment of Orbital Mucormycosis**  
Liane O. Dallalzadeh<sup>1</sup>, Allison J. Chen<sup>1</sup>, Lilangi S. Ediriwickrema<sup>2</sup>, Daniel J. Ozzello<sup>1</sup>, Bobby S. Korn<sup>1</sup>, Don O. Kikkawa<sup>1</sup>, Catherine Y. Liu<sup>1</sup>  
*<sup>1</sup>Viterbi Family Department of Ophthalmology, Shiley Eye Institute, UC San Diego, La Jolla, California, United States, <sup>2</sup>Division of Oculofacial Plastic and Reconstructive Surgery, Department of Ophthalmology, UC Irvine, Irvine, California, United States*
- 1:25 - 1:29 pm      **Recurrence of Orbital Venous-Dominant Venolymphatic Malformations after Sclerotherapy versus Embolization with Excision**  
Liza Cohen, Robert Goldberg, Daniel Rootman  
*Division of Orbital and Ophthalmic Plastic Surgery, Stein Eye Institute, University of California, Los Angeles, Los Angeles, California, United States*

Program times below are Central Time

1:29 – 1:33 pm **Multiple Arterial Vascular Anomalies in the Periorbital, Paranasal and Intracranial Spaces Treated with Systemic Bevacizumab**  
Justin Karlin<sup>1</sup>, Niaz Ahankoob<sup>2</sup>, Daniel Rootman<sup>3</sup>  
*<sup>1</sup>Orbital and Ophthalmic Plastic Surgery, Stein and Doheny Eye Institutes, UCLA, Los Angeles, California, United States, <sup>2</sup>Rocky Vista University College of Osteopathic Medicine, Parker, Colorado, United States, <sup>3</sup>Orbital and Ophthalmic Plastic Surgery, Stein and Doheny Eye Institutes, Los Angeles, California, United States*

1:33 – 1:46 pm **Questions and Discussion**

## PRACTICE MANAGEMENT SESSION

*Moderators: Ronald Mancini and Holly Chang*

1:46 – 1:47 pm **Introduction of Practice Management Session**

1:47 – 1:51 pm **Patient Perspectives on the Oculofacial Plastic Surgical Experience during the COVID-19 Pandemic**

Anupam K. Garg, Christopher P. Long, Catherine Y. Liu, Bobby S. Korn, Don O. Kikkawa  
*Division of Oculofacial Plastic and Reconstructive Surgery, Shiley Eye Institute, Viterbi Family Department of Ophthalmology, University of California San Diego, La Jolla, California, United States*

1:51 – 1:55 pm **Application of XmR Statistical Process Control Charts in Oculoplastics**

Jamie Schaefer<sup>1</sup>, Michael Migliori<sup>1</sup>, Taygan Yilmaz<sup>2</sup>  
*<sup>1</sup>Ophthalmology, Warren Alpert Medical School of Brown University, Providence, Rhode Island, United States, <sup>2</sup>Ophthalmology, Warren Alpert Medical School of Brown University, Providence, Rhode Island, United States*

1:55 pm – 2 pm **Coding Update 2021**

L. Neal Freeman

2 – 2:10 pm **Questions and Discussion**

2:10 – 2:15 pm **Bartley R. Frueh Award for Best YASOPRS Presentation – Annoucement of Winner**

Presented by Mark J. Lucarelli on behalf of the ASOPRS Foundation Board of Trustees

### Closing Remarks

Catherine J. Hwang, ASOPRS Program Chair  
Cat N. Burkat, ASOPRS Program Co-Chair  
Mark J. Lucarelli, ASOPRS President

2:15 pm **Adjourn**

# Virtual Exhibit Hall

Visit the Exhibits any time before, during and after the virtual meeting.

During the hours below, representatives will be available to discuss their products or services via a virtual meeting link within each booth.

Friday, November 20: 5:30-6 pm CT

Saturday, November 21: 10:30-11 am CT

Sunday, November 22: 10:30-11 am CT

Thank you to the following companies for their support.

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At Allergan Aesthetics, an AbbVie company, we develop, manufacture, and market a portfolio of leading aesthetics brands and products. Our aesthetics portfolio includes facial injectables, body contouring, plastics, skin care, and more.

With our own research and development function focused on driving innovation in aesthetics, we're committed to providing the most comprehensive science-based product offering available.

We are driven to help consumers make informed decisions about their aesthetic needs.

It's our job to stand out. The aesthetics market is changing fast. We know change never stops, and we're constantly seeking to better understand the mindsets and motivations of the consumers we serve in order to focus on meeting unmet needs as we innovate.

Our goal is to consistently provide our customers with innovation, education, exceptional service, and a commitment to excellence, all with a personal touch.

For more information, visit [www.AllerganAesthetics.com](http://www.AllerganAesthetics.com).

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# Virtual Exhibit Hall

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## Elsevier

Elsevier is a world-leading provider of medical books and reference materials, empowering medical professionals to make better decisions, and deliver better care.

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FCI is a world class manufacturer and leading innovator in the design and development of unique and exclusive ophthalmic devices.

Specialists in dry eye, oculoplastics, cataract and vitreoretinal treatment solutions, FCI offers a portfolio of over 200 products trusted by ophthalmologists to improve their patients' quality of life.

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Galderma, the world's largest independent global dermatology company, has an extensive product portfolio of best-in-class aesthetic solutions, prescription medicines and consumer care products. The company partners with aesthetic providers worldwide to impact the lives of patients by providing innovative solutions driven by ground-breaking medical research to help patients achieve natural-looking results. For more information, visit [www.galderma.com/us](http://www.galderma.com/us)

## Genentech

For more than 40 years, we've been following the science, seeking solutions to unmet medical needs. As a proud member of the Roche Group, we make medicines to treat patients with serious medical conditions.

## Graves Disease and Thyroid Eye Foundation

The Graves' Disease and Thyroid Foundation (GDATF) is a 501(c)(3) nonprofit agency that provides educational and support services to patients living with Graves' disease, thyroid eye disease, Hashimoto's thyroiditis, and related disorders. Patient programs include a phone and email hotline for information and support, a website with free informational bulletins, support groups and patient education events (currently virtual only due to COVID-19), a free monthly e-newsletter and a print newsletter that goes out twice per year to paid members. We have literature on Graves' disease and thyroid eye disease that can be stocked in physician offices to help patients better understand these conditions and the available treatment options.

## Horizon Therapeutics

Horizon is focused on researching, developing and commercializing medicines that address critical needs for people impacted by rare and rheumatic diseases. Our pipeline is purposeful: we apply scientific expertise and courage to bring clinically meaningful therapies to patients. We believe science and compassion must work together to transform lives.



# Virtual Exhibit Hall

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## Integrated Orbital Implants (IOI)

Since 1985, Bio-Eye Orbital Implants have become the gold standard by which other implants are measured. No other implant is made from a natural source and has the same structure and composition as human bone.

Bio-eye Orbital Implants become a “living” part of the patient’s body. The Bio-eye Orbital Implant has the longest track record of all modern implant materials. There are implants made in Europe of artificial hydroxyapatite that are not the same in structure, composition or quality.

There are also porous implants of porous polyethylene, (Medpor), and of aluminum oxide, (Bioceramic). These are not natural materials of the body and do not have the same, completely porous, micro architecture as human bone or as the Bio-eye implant.

## NexTech

Nextech is committed to providing industry leading EHR, Practice Management and Telehealth solutions intuitively designed to improve practice performance. IntelChartPRO, Nextech’s Ophthalmology-specific EHR, mirrors the problem driven workflow of your practice, offering unmatched charting speed and specificity. Built-in regulatory features simplify compliance which makes Nextech the IRIS® Registry’s #1 EHR Collaborator with the most registered practices. Paired perfectly with our comprehensive practice management solution, Nextech’s fully integrated suite of products streamline operations, improve profitability and help your practice provide a better patient care experience. To learn how Nextech can help your practice succeed in today’s rapidly changing healthcare environment, visit [www.nextech.com](http://www.nextech.com)

## MedDev Corporation

For nearly 50 years, MedDev Corporation continues to design, develop, manufacture and distribute an expanded range of surgical and non-surgical devices for the gravity-assisted treatment of lagophthalmos. MedDev Contour™ and ThinProfile™ design eyelid weight implants in gold and platinum (99.99% purity), Blinkeze® External Lid Weights and Tantalum Eyelid Sizing Weights are recognized worldwide for their quality and proven clinical results.

E-mail: [info@meddev-corp.com](mailto:info@meddev-corp.com)

Online: <http://www.meddev-corp.com>

## Poriferous, LLC

PORIFEROUS manufactures biocompatible porous polyethylene surgical implants, for craniofacial reconstruction and augmentation, featuring SU-POR biomaterial.

SU-POR Surgical Implants are made from a porous linear high-density polyethylene (HDPE), a material that is well classified and has been used in augmentation or reconstruction of the craniomaxillofacial skeleton for over 30 years. SU-POR implants are designed for craniomaxillofacial reconstruction for augmentation.

SU-POR Implants are used for craniofacial reconstruction and augmentation. They are made from High Density Polyethylene, a material with a well documented use in craniofacial reconstruction and augmentation. Through our proprietary processes we are able to ensure each and every SU-POR implant is of the highest quality and consistency.

## MyEllevate

MyEllevate™ is a minimally invasive facial rejuvenation procedure that was invented and developed by Dr. Gregory Mueller, a Beverly Hills, CA, board certified plastic surgeon.

## Wolters Kluwer

Wolters Kluwer Health is a leading global provider of medical information and point of care solutions for the healthcare industry. Our solutions are designed to help professionals build clinical competency and improve practice so that healthcare organizations can succeed in value-based care delivery models. We offer premier medical, nursing and allied health content; clinical decision support tools; drug information and patient surveillance; structured documentation and coding; healthcare terminology, data management and systems interoperability solutions; precision medical research tools; and continuing medical education solutions. Our leading product solutions include Lippincott®, Ovid®, UpToDate®, and others.

# Awards

## Marvin H. Quickert Thesis Award

The Marvin H. Quickert Thesis Award is an honorary award given annually for the most outstanding thesis chosen from those submitted by candidates seeking membership in ASOPRS during the current year.

**The recipient of the Marvin H. Quickert Thesis Award will be announced during the Thesis Session on Saturday, November 21, 2020.**

The candidates for this year's Marvin H. Quickert Award are

**Alison Watson** *“Combination 5-Fluorouracil and Microneedling Therapy for Wound Modification: A Histologic Murine Study”*

**Wesley Brundridge** *“The Tunneled Paramedian Forehead Flap for Medial Canthal and Eyelid Reconstruction”*

**Anna Kupcha** *“Association of Age-Adjusted Charlson Comorbidity Index with Orbital Fungal Disease Outcomes”*

## The Bartley R. Frueh Award for Best YASOPRS Presentation

Named in memory of ASOPRS Past President, Dr. Bartley Frueh, the ASOPRS Foundation will award the Bartley R. Frueh Award for Best YASOPRS Presentation. Oral presentations are evaluated for the award, which is generously sponsored by the ASOPRS Foundation. Only presenters who meet the definition of YASOPRS (inducted member who has 8 years or less experience after graduation from an ASOPRS accredited fellowship, or alternatively, satisfies the Category II requirements of membership and has 8 years or less experience after fellowship graduation) and Fellows-in-Training in an ASOPRS-accredited fellowship are eligible for the award.

**The recipients of the Bartley R. Frueh Award for Best YASOPRS Presentation will be announced at the closing of the program on Sunday, November 22, 2020.**

# Awards

## Robert H. Kennedy Presidential Award

Named in memory of ASOPRS 2007 President, Robert H. Kennedy, MD, PhD, this award is presented to the Society's Immediate Past President in recognition of their devotion, leadership, and ongoing service to the Society.

**The recipient of this year's Robert H. Kennedy Presidential Award is Daniel P. Schaefer.** Dr. Schaefer will be recognized for the award during the Business Meeting on Saturday, November 21.



**Daniel P. Schaefer**

Dr. Daniel P. Schaefer is a native of Buffalo, New York. He graduated from Canisius College with a B.A. in Biology, and received his Doctor of Medicine degree from SUNY at Buffalo in 1981. After serving his internship in Internal Medicine at the University Program, SUNY at Buffalo Affiliated Hospitals in 1982, he completed his residency training in ophthalmology at the New York Eye and Ear Infirmary in 1985, and was elected and served as Chief Resident 1984 to 1985. An American Society of Ophthalmic Plastic and Reconstructive Surgery (ASOPRS) sponsored fellowship training program in Oculoplastic, Orbital and Reconstructive Surgery was completed at the Wills Eye Hospital and Jefferson University, Philadelphia, PA. 1985 to 1986 under the preceptorship of Dr. Joseph C. Flanagan.

Dr. Schaefer joined the Department of Ophthalmology, SUNY at Buffalo, New York in 1986, and was promoted to Clinical Professor in 2001. He was appointed Co-Director of the department of Oculoplastic, Orbital, and Reconstructive Surgery in 1989, and promoted to Director in 1997 to present, while maintaining a private practice in Buffalo, New York. He has served as the Chief of Ophthalmology at St. Joseph Intercommunity Hospital since 1991, and served as its President of the Medical Staff, 2001 to 2003.

Dr. Schaefer's principal clinical and research interests are oculoplastic, orbital, and reconstructive surgery. He has served as Visiting Professor, and lectured throughout the United States, Central America, and India, has written numerous chapters and articles in the field of Oculoplastic, Orbital and Reconstructive Surgery, and has travel frequently to several countries in Central America, South America, Africa and India, lecturing, providing medical services and surgeries in the field of Oculoplastic, Orbital, and Reconstructive Surgery for the needy, while also teaching the local Ophthalmologists.

Dr. Schaefer was Chair of the ASOPRS Education Committee 2000 to 2002, and CME Committee Chair 1991 to 1998, Chair of the Committee for Transition of ASOPRS to Board Certification/Equivalency, was on the ASOPRS Foundation Board, President of the Upstate New York District #1 American College of Surgeons and has served on its Committee for Membership Applicants since 1996, has been on the Medical Advisory Board of the American Society of Ocularists 1992 to 2009, was elected Chief Resident at the New York Eye and Ear Infirmary in 1984 to 1985, received the SUNY at Buffalo, New York Ophthalmology Resident Teaching Award five times, was presented the 4th Kanchan Memorial Oration Award from the Kanchan Eye Hospital and Research Center, Murlidhar, Hyderabad, India in 1994, Recipient of the Signum Fidei Award from St. Joseph's Collegiate Institute and inducted into the Society in 1999, Bestowed Knighthood in the Equestrian Order of the Holy Sepulchre of Jerusalem in 2001 and advance to its highest order of Knight of the Grand Cross in 2011, received the Caritas Award from St. Joseph Intercommunity Hospital in 2002, received the Lifelong Education for Ophthalmologist Continuing Education Recognition Award and Achievement Award from the American Academy of Ophthalmology, and inducted into The American Ophthalmological Society in 2008.

Dr. Schaefer has always been on a committee or served as the chairman of a committee since he was inducted into ASOPRS in 1989 to the present.

# Awards

## Lester T. Jones Surgical Anatomy Award

The Lester T. Jones Surgical Anatomy Award is given to an individual who has made an outstanding contribution to ophthalmic plastic and reconstructive surgery. The first award in 1974 was awarded to Marvin H. Quickert, MD, for his application of anatomy to surgical approaches.

**The recipient of this year's Lester T. Jones Surgical Anatomy Award is Mohammad Javed Ali.**



**Mohammad  
Javed Ali**

Mohammad Javed Ali is an internationally recognized Clinician-Scientist and currently heads the Govindram Seksaria Institute of Dacryology at the L.V. Prasad Eye Institute, India. He is currently the Hong-Leong Professor at NUHS, Singapore, and Gast Professor at FAU, Germany. Javed is among the rare recipients of the Senior Alexander Von Humboldt Award and the Indian Nobel - the Shanti Swarup Bhatnagar Prize, the highest multi-disciplinary scientific award by the Government of India. He described 3 new diseases of the lacrimal system along with their classifications and clinicopathologic profiles. He was honored by the 2015 ASOPRS 'Merill Reeh' Award for his work in the understanding of etiopathogenesis of punctal stenosis. He is a section editor for 9 journals and has to his credit 423 publications at the time of this writing, and has delivered 313 conference lectures, including 12 keynote addresses. He has conducted 25 instruction courses and 29 live surgical workshops, and has been honored by 33 national and international awards.

# Awards

## Merrill Reeh Pathology Award

The Merrill Reeh Pathology Award honors an outstanding contribution to the study of pathology pertinent to the field of ophthalmic plastic and reconstructive surgery. Papers may be submitted for consideration for this honorary award by members of ASOPRS or anyone interested in the field of ophthalmic plastic and reconstructive surgery. Theses from membership candidates are also considered eligible. The Merrill Reeh Pathology Award is reserved for a paper considered to represent a truly significant contribution to the field of ophthalmic plastic and reconstructive surgery.

**The recipients of this year's Merrill Reeh Pathology Award are Ivan Vrcek, Roland Blumer, Alexander D. Blandford, Marie Somogyi, Vikram D. Durairaj, Sean M. Blaydon, John W. Shore, Malena M. Amato, and Tanuj Nakra** for the paper "*Histologic Evaluation of Nonvisual Afferent Sensory Upper Eyelid Proprioception.*" *Ophthalmic Plast Reconstr Surg*, Jan/Feb 2020;36(1): 7-12.



Ivan Vrcek

Ivan Vrcek is in private practice in Dallas, Texas. He holds academic appointments at UT Southwestern Medical Center and Texas A&M University where he trains residents and medical students. He has a particular interest in the Muller's muscle and the interplay between eyelid and brow position. He also enjoys treating patients with Graves' disease and cosmetic eyelid and facial concerns. He is honored to accept the Merrill Reeh Pathology Award and thanks his mentors at TOC Eye and Face.



Roland Blumer

# Awards

## Merrill Reeh Pathology Award



**Alexander D.  
Blandford**

Alex Blandford, MD is in private practice in Vero Beach, FL and directs the oculofacial plastic surgery and laser resurfacing division of Center for Advanced Eye Care. His practice spans the breadth of oculofacial plastic surgery, but has a particular focus on facial reconstruction after skin cancer excision, cosmetic facial surgery and laser skin resurfacing. He enjoys spending time with his wife, Ally, and their 1 year old daughter Anna Wynn. Dr. Blandford would like to thank his mentors/friends at the Cleveland Clinic Cole Eye Institute, Dr. Julian Perry and Dr. Catherine Hwang, for their guidance and passion for critical thinking. He is honored to be included in this talented group receiving the Merrill Reeh Pathology Award.



**Marie Somogyi**

Marie Somogyi is in practice in Austin, TX at TOC Eye and Face. She is also on faculty at the University of Texas at Austin Dell Medical School, where she enjoys working with medical students and residents as well as the two ASOPRS fellows at TOC Eye and Face. She is passionate about advancing the field of oculoplastic, orbital, and facial cosmetic surgery through innovative surgical techniques and clinical research.



**Vikram D. Durairaj**

Dr. Durairaj currently serves as Managing Partner of TOC Eye and Face and is Clinical Professor of Ophthalmology at Dell Medical School - University of Texas at Austin. Dr. Durairaj is the Director of the ASOPRS Fellowship and Preceptor of the AACS Cosmetic Surgery Fellowship at TOC. He has given over 400 invited national and international lectures, published over 100 peer-reviewed manuscripts, chapters, and abstracts and presented his research at national and international meetings. He serves as editor and reviewer for 18 scholarly publications and has been selected to US news and World Report Top Doctors. In 2011, he received the Achievement Award from the American Academy of Ophthalmology. Dr. Durairaj graduated AOA from University of Texas Health Science Center, completed his internship at Georgetown University, residency at the University of Colorado, and ASOPRS Fellowship at the Mayo Clinic.

# Awards

## Merrill Reeh Pathology Award



**Sean M. Blaydon**

Dr. Sean Blaydon was born in the U.S. Virgin Islands and raised in England where he attended boarding school for 10 years. He graduated from Emory University in Atlanta with a Bachelor of Science degree in biology and then earned his medical degree at Tulane University School of Medicine in New Orleans. He completed his internship and ophthalmology residency at Walter Reed Army Medical Center in Washington, D.C. After serving four years as an Army staff ophthalmologist at Tripler Army Medical Center in Honolulu, Hawaii, Dr. Blaydon completed two years of fellowship training in oculofacial plastic surgery at Texas Oculoplastic Consultants (now TOC Eye and Face). Prior to joining TOC, Dr. Blaydon served as Director of Ophthalmic Plastic, Orbital and Reconstructive Surgery and Director of the Ocular Trauma Service at Brooke Army Medical Center in San Antonio. He also served a year in Baghdad, Iraq as Commander of an Army Eye Surgical Team and Chief of Clinical Operations for Combined Joint Task Force 7. He is on the clinical faculty at The University of Texas Dell Medical School in Austin and an Adjunct Assistant Professor of Surgery at the Uniformed Services University of the Health Sciences in Bethesda, Maryland.



**John W. Shore**

Dr. Shore is a magna cum laude graduate of the University of New Hampshire and finished at the top of his medical School class at Washington University in St. Louis. He completed a surgical internship and an ophthalmology residency at Wilford Hall USAF Medical Center in San Antonio, Texas, and a fellowship in ophthalmic plastic and reconstructive surgery at Emory University in Atlanta. While completing his Air Force commitment, Dr. Shore served as Chairman of the Department of Ophthalmology and as Director of Residency Training at Wilford Hall and was Consultant to the USAF Surgeon General. In 1988 he retired from the Air Force and joined the Harvard University faculty as Associate Chief of Ophthalmology and Director of the Eye Plastics and Orbit Surgery Service at the Massachusetts Eye and Ear Infirmary and Massachusetts General Hospital. While there, Dr. Shore oversaw all Fellowship training programs at MEEI and conducted research on orbital implants for which he holds two U.S. patents. He trained both U.S. and international fellows, and he continues to travel, teach and lecture in the United States and abroad. He is a former President of the Massachusetts Society of Eye Physicians and Surgeons, former Chairman of the Board of Prevent Blindness Texas—Austin Branch, past President of the American Society of Ophthalmic Plastic and Reconstructive Surgery (ASOPRS), and served fifteen years on the Board of the Ophthalmic Mutual Insurance Company (OMIC) and three years as Chairman of the Board. He retired from clinical practice with TOC Eye and Face in the fall of 2019. Currently he is Professor of Ophthalmology, Department of Ophthalmology, University of Texas at Austin Dell Medical School where he serves as Associate Program Director. He and his wife, Suzanne, have two sons and two granddaughters. Before beginning his medical training, Dr. Shore was an Air Force fighter pilot. Following 103 combat missions over South Vietnam and Cambodia, he was awarded the Distinguished Flying Cross and the Air Medal with 10 oak leaf clusters.

# Awards

## Merrill Reeh Pathology Award



**Malena M. Amato**

Dr. Amato is a native of St. Louis, Missouri. She rowed competitively for Oxford University and graduated Magnum Cum Laude from Boston College. She completed Medical School and Ophthalmology Residency at Georgetown University in Washington, D.C., where she served as co-Chief Resident. She completed General Surgery Internship at Stanford Hospital in Palo Alto, CA and her ASOPRS fellowship at TOC Eye and Face in Austin, TX. She went on to serve as adjunct clinical faculty at Georgetown University and the University of Maryland while practicing in Annapolis, MD. She and her husband relocated to Northern California where she practiced at Kaiser Permanente and continued to teach and do research as an adjunct clinical professor at Stanford Hospital. In 2013, She returned to TOC Eye and Face in Austin, TX as an ASOPRS preceptor and served as president of the Austin Ophthalmology Society. She was recently appointed adjunct faculty of the Dell Medical School Department of Ophthalmology. In 2017, she founded Eyelid & Facial Plastic Surgery Associates in Austin, TX. She has numerous publications in peer-reviewed journals and books and participates in national professional organizations such as AAO and ASOPRS. As an international speaker and educator, she developed a special interest in medical missions, traveling with around the world with her husband and two boys.



**Tanuj Nakra**

Dr. Tanuj Nakra practices in Austin at TOC Eye and Face and serves on the Clinical Faculty of the Dell Medical School at the University of Texas. He is an AACS Fellowship Director and an ASOPRS Fellowship Preceptor. Dr. Nakra has authored over 50 peer-reviewed scientific articles and book chapters, and is the PI for multiple grant-supported research projects. He has served on the Executive Committee of the American Board of Facial Cosmetic Surgery and as a Board Member of the Cosmetic Surgery Foundation. He is the co-founder of AVYA Skincare and also the Aesthetics Masterclass by Global Cosmetic Surgery.

Dr. Nakra completed ophthalmology residency and oculoplastic surgery fellowship training at the Jules Stein Eye Institute, UCLA.



# Awards

## ASOPRS Research Award

The ASOPRS Research Award is given annually to an ASOPRS member(s) or candidate(s) for membership who submits the most outstanding paper describing original research conducted in the field. Only papers submitted to Ophthalmic Plastic and Reconstructive Surgery, the official journal of the Society, will be considered.

**The recipients of this year's ASOPRS Research Award are Shoaib Ugradar and Jonathan Hoenig** for the paper *"Measurement of the Force Required by Blunt-Tipped Microcannulas to Perforate the Facial Artery."* Ophthalmic Plast Reconstr Surg. Sep/Oct 2019;35(5): 444-446.



**Shoaib Ugradar**

Dr. Shoaib Ugradar was born in London, England. He completed a Bachelor of Science degree in Human Genetics at University College London and then earned his medical degree at the University of London, UK, graduating with honors and the president's prize. Having completed residency training in internal medicine in London, he was awarded a young European researcher's award for his work on Multiple Sclerosis. He subsequently undertook residency training in ophthalmology and later oculoplastics at Moorfields eye hospital, obtaining a research gold medal. Having been selected for membership of the Worshipful company of scientific instrument makers in London, Dr. Ugradar has worked with artificial intelligence and mechanical engineering to develop tools for clinical use, some of which have received US patents. Dr Ugradar is currently working towards an executive MBA at the University of Miami while serving on the clinical faculty at UCLA.



**Jonathan Hoenig**

Dr. Hoenig completed three fellowships in his quest to master the art of facial plastic and reconstructive surgery: oculoplastic surgery at the New England Medical Center in Boston, Massachusetts; oculofacial cosmetic surgery at the Jules Stein Eye Institute at UCLA; and full body cosmetic and dermatologic surgery at the Institute for the Advancement of Specialty Surgery in Rancho Mirage, California. In addition, Dr. Hoenig trained in Mohs micrographic surgery and has performed over 20,000 cases of Mohs surgery for skin cancer excision and reconstruction.

Currently, Dr Hoenig is in private practice in Beverly Hills, California He also serves as an ASOPRS fellowship director in conjunction with the UCLA Jules Stein Eye Institute where he enjoys training and teaching the future generation of oculofacial plastic surgeons.

# Awards

## Henry I. Baylis Cosmetic Surgery Award

The Henry I. Baylis Cosmetic Surgery Award is given to an individual for longstanding contributions in the field of cosmetic surgery. The recipient of this award presents the Henry I. Baylis Lecture at the Fall Scientific Symposium.

**The recipient of this year's Henry I. Baylis Cosmetic Surgery Award is Wendy W. Lee.**

The lecture, *"Beauty and the Beast: What Drives Some Toward Aesthetics"*, will be presented at 12:20 pm CST on Saturday, November 21, 2020.



Wendy W. Lee

Wendy W. Lee, MD, MS, Professor of Clinical Ophthalmology and Dermatology, specializes in ophthalmic plastic and reconstructive surgery with a special interest in aesthetic medicine. Dr. Lee earned her MD from Tulane University. She holds a BA from UC Santa Barbara and a MS from Georgetown University. She completed both her residency and internship at Tulane University, and a fellowship in oculoplastic surgery at the Bascom Palmer Eye Institute.

Dr. Lee treats a broad spectrum of oculoplastic disorders, both functional and aesthetic. She dedicates time to teaching and organizes multispecialty trainings in cosmetic injectables, topical treatments and lasers.

Dr. Lee conducts research with special interests in eyelid reconstruction, the aging eyelid skin, and orbital tumors. She lectures around the world on various oculoplastic disorders and rejuvenation of the periocular area.

## ASOPRS Outstanding Contribution Award

*Presented at 2020 ASOPRS Virtual Spring Scientific Symposium*

This award is given to an individual or individuals who make a legendary single, or longstanding multiple contributions to ASOPRS.

**The recipients of this year's ASOPRS Outstanding Contribution Award are: Kian Eftekhari, Andrea L. Kossler, Nicholas Mahoney, David B. Samimi, Jeremiah P. Tao, and Cameron B. Nabavi. Drs. Eftekhari, Kossler, Mahoney and Samimi are being honored for the development of the ASOPRS 50th Anniversary Reflections Videos and Drs. Tao and Nabavi for the Genealogy Tree.**



**Kian Eftekhari**

Kian Eftekhari is in private practice in Salt Lake City, Utah at the Eyelid Center of Utah. He was formerly Assistant Professor of Ophthalmology at the University of North Carolina at Chapel Hill. Dr. Eftekhari attended Stanford University before completing his medical degree at the University of Pennsylvania. Dr. Eftekhari completed his residency at the Scheie Eye Institute where he was inspired to pursue oculoplastic surgery by his mentors Dr. Reza Vagefi, Drs. William and James Katowitz and Dr. Roberta Gausas. He went on to complete his ASOPRS fellowship with Dr. Richard Anderson in Salt Lake City. Dr. Eftekhari is the Chair of the Young ASOPRS Committee and serves on the AAO IRIS Registry Committee. He is grateful for the mentorship he has received from countless members of ASOPRS, and feels that his success in his career would not be possible without the society, its educational programs, and the early career opportunities to present at the annual scientific meetings.



**Andrea Lora  
Kossler**

Andrea Lora Kossler, MD, is Assistant Professor of Ophthalmology at Stanford University School of Medicine and Director of the Oculofacial Plastic, Reconstructive Surgery and Orbital Oncology Service at the Byers Eye Institute at Stanford. Andrea specializes in aesthetic oculofacial surgery, thyroid eye disease and orbital oncology. Dr. Kossler is Co-Director of the Stanford Multidisciplinary Thyroid Eye Disease Center and Director of the Stanford Aesthetic Eye Surgery Center.

Dr. Kossler was awarded the ASOPRS Marvin Quickert Thesis Award in 2013 and the ASOPRS Annual Research Award in 2015 for her work on neurostimulation for enhanced tear production. She served as chair of the Young American Society of Ophthalmic Plastic and Reconstructive Surgeons (YASOPRS) committee from 2017-2019 and was a member of the ASOPRS 50 year anniversary committee in 2019. Andrea's research interests include the proteomic evaluation of the ocular surface, modulation of neural reflexes via neurotization and neurostimulation and evaluating targeted therapies for cutaneous and orbital malignancy.



**Nicholas Mahoney**

Nick Mahoney is an Assistant Professor Of Ophthalmology at the Johns Hopkins Hospital and the Wilmer Eye Institute where he serves as the Associate Residency Program Director and Division Education Champion for Oculoplastic Surgery. His academic pursuits often involve using digital media and technologies to educate and improve outcomes. "The 50th Anniversary retrospective project was a wonderful experience to learn more about the history of the society and contribute with the great team we had."

## ASOPRS Outstanding Contribution Award

*Presented at 2020 ASOPRS Virtual Spring Scientific Symposium*



**David B. Samimi**

Dr. David B. Samimi earned his M.D. degree from the David Geffen School of Medicine at UCLA and completed his ophthalmology residency at the Bascom Palmer Eye Institute. He then completed his ASOPRS fellowship at Eyestetica in Los Angeles and currently teaches oculofacial plastic surgery as an adjunct assistant professor at the Keck School of Medicine at USC. He is also faculty for the ASOPRS-accredited fellowship at Eyestetica.

David is a Southern California native and currently lives in Westwood, California with his wife Azadeh and two children Noah and Colette. He enjoys international travel and outdoor exercise and is fluent in Spanish and Farsi.



**Jeremiah P. Tao**

Jeremiah P. Tao is a professor and the chief of oculofacial plastic and orbital surgery at the Gavin Herbert Eye Institute, University of California, Irvine. He is the program director for the ASOPRS-accredited fellowship and the ophthalmology residency at UCI. He serves as the subspecialty liaison to the American Board of Ophthalmology. He recently was program chair as well as chair of the 50th anniversary committee for ASOPRS. Dr. Tao went to Duke University where he competed on the national finalist varsity soccer team. He completed medical school and his residency at the University of South Carolina. His ASOPRS fellowship was at Indiana University under Bill Nunery.



**Cameron B.  
Nabavi**

Cameron was born and raised in Los Angeles, CA and attended the University of California, Berkeley where he obtained his B.A. in Molecular and Cell Biology. He obtained his medical degree at the University of California, San Diego followed by residency at the University of California, Irvine. Under the guidance of Drs. John Long and Matthew Vicinanza, he completed his ASOPRS fellowship, and then began practice in Columbus, Ohio.

Dr. Nabavi's work on the oculofacial plastic genealogy began in residency in collaboration with Dr. Jeremiah Tao. He continues to update it over time to outline the roots of our society.

# Awards

## Orkan G. Stasior Leadership Award

*Presented at 2020 ASOPRS Virtual Spring Scientific Symposium*

This award is given to an individual who has demonstrated distinguished service in the field of ophthalmic plastic and reconstructive surgery through education, research, humanitarian activities and/or service to the Society. This award is presented in recognition of the leadership of ASOPRS charter member, Orkan G. Stasior.

**The recipient of this year's Orkan G. Stasior Leadership Award is: Erin M. Shriver.**



**Erin M. Shriver**

Erin M. Shriver, MD, FACS is a Clinical Associate Professor and the Jim O'Brien Gross and Donnita Gross Professor of Ophthalmology in the Department of Ophthalmology and Visual Sciences at the University of Iowa. She is actively involved in clinical practice, teaching, research, and advocacy. Dr. Shriver is currently President of Women in Ophthalmology and the Iowa Academy of Ophthalmology and has participated in the Leadership Development Program through AAO. She proudly serves ASOPRS as the AMA Delegate, Secretary of the ASOPRS Foundation, and as a member of multiple committees including the Fellowship Review and Thesis Committees. Her research interests include advances in oculoplastic techniques, critical analysis of current oculoplastic practices, establishing novel metrics for eyelid position and aesthetics, thyroid eye disease, intimate partner violence in ophthalmology patients, and the physics of eyelid malposition. When she is not working, she enjoys exercising and spending time with her husband and sons.

## James A. Katowitz Pediatric Award

*Presented at 2020 ASOPRS Virtual Spring Scientific Symposium*

This award is given to an individual for longstanding contributions in pediatric oculofacial plastic surgery.

**The recipient of this year's James A. Katowitz Pediatric Award is: Angela M. Dolmetsch.**



**Angela M.  
Dolmetsch**

Angela M. Dolmetsch, MD is professor of Oculofacial, Orbital, Reconstructive and Lacrimal Surgery at the Pontificia Universidad Javeriana in Cali, Colombia. She received her MD followed by her internship and residency in Ophthalmology at the University of Valle in Cali, Colombia. She completed her first fellowship in Ophthalmic Pathology at McGill University, Montreal, Canada. She then completed a second fellowship in oculofacial, orbital, reconstructive and lacrimal surgery also at McGill University under the guidance of François Codere. She has more than 20 peer reviewed publications, 5 book chapters and 2 award winning videos distributed by the AAO. She has been invited as an international speaker to more than 10 countries. She has been an official instructor at the AAO Endoscopic Lacrimal skills transfer course for more than 11 years and has trained many fellows and observers in endoscopic surgery. She has been awarded the Gillingham Pan-American Fellowship award, the AAO Education Award, the AAO Scholar Award and the AAO achievement award. She is also past president of the Colombian Society of Oculoplastic and Reconstructive Surgery. She also has two United States Design patents (USDP) for medical devices. Dr. Dolmetsch has a private and university based practice and is preceptor of the Oculofacial, Orbital, reconstructive and Lacrimal surgery fellowship program at the Pontificia Universidad Javeriana in Cali, Colombia.

# Awards

## Richard K. Dortzbach Teaching Award

*Presented at 2020 ASOPRS Virtual Spring Scientific Symposium*

This award is given to an individual with significant contribution to the field of oculoplastics through outstanding teaching, academic, scientific, and scholarly achievement and for dedication throughout his or her profession.

**The recipient of this year's Richard K. Dortzbach Teaching Award is: Jack Rootman.**



**Jack Rootman**

Dr. Jack Rootman is a Professor of Ophthalmology and Pathology and past Chair of the Department of Ophthalmology and Visual Sciences at UBC. His distinguished career has focused on orbital diseases, ocular pathology and ocular oncology, with an emphasis on pathogenesis and management of orbital disorders including thyroid eye disease.

Dr. Rootman's understanding of disease processes and ability to synthesize complex anatomical relationships are in evidence in his seminal books *Orbital Surgery: A Conceptual Approach* (2nd Edition) and *Diseases of the Orbit: A Multidisciplinary Approach* (2nd Edition). His surgical skills and inventions are renowned and have attracted worldwide consultations.

Dr. Rootman was instrumental in establishing the ocular pathology, oculoplastics and orbit fellowships at UBC that have now trained over 90 national and international fellows and visitors. He has innumerable publications, book chapters, and invited lectureships. More recently, his academic interests have turned to international teaching and skill transfer, most notably, with the development of orbital centers in Singapore and Israel.

Dr. Rootman has also devoted his time to art as a painter and participant in the arts community, at UBC and at VGH. He is currently a Visiting Professor at UCLA.

# Narrated Presentations

Narrated Presentations are hosted online before, during, and after the live-virtual meeting. No CME is provided for viewing of slideshows.

## AESTHETIC

### 1 External Carotid Artery to Ophthalmic Artery Flow Associated with Internal Carotid Artery Stenosis

Liza Cohen<sup>1</sup>, L. Luciano Ponce Mejia<sup>2</sup>, Gary Duckwiler<sup>2</sup>, Robert Goldberg<sup>1</sup>, Daniel Rootman<sup>1</sup>

<sup>1</sup>Division of Orbital and Ophthalmic Plastic Surgery, Stein Eye Institute, University of California, Los Angeles, Los Angeles, California, United States, <sup>2</sup>Division of Interventional Neuroradiology, Department of Radiology, University of California, Los Angeles, Los Angeles, California, United States

### 2 Safety and Efficacy of an Augmented Intense Pulse Light Protocol for Dry Eye Syndrome and Blepharitis

Sandy Zhang-Nunes<sup>1</sup>, Sarah Guo<sup>2</sup>, Diana Lee<sup>3</sup>, Annie Nguyen<sup>3</sup>

<sup>1</sup>Clinical Ophthalmology, Oculofacial Plastic Surgery, USC Roski Eye Institute, Los Angeles, California, United States, <sup>2</sup>Keck School of Medicine, Los Angeles, California, United States, <sup>3</sup>USC Roski Eye Institute, Los Angeles, California, United States

## EYELID DISORDERS

### 1 Dimensions, Function and Applications of the Auricular Muscle in Oculofacial Plastic Surgery

Brian Chon<sup>1</sup>, Alexander Blandford<sup>2</sup>, Catherine Hwang<sup>1</sup>, Julian Perry<sup>3</sup>

<sup>1</sup>Cleveland Clinic, Cleveland, Ohio, United States, <sup>2</sup>Center for Advanced Eye Care, Vero Beach, Florida, United States, <sup>3</sup>Cleveland, Ohio, United States

### 2 Evaluation and Implementation of a Mannequin-Based Surgical Simulator for Margin-Involving Eyelid Laceration Repair

Jiawei Zhao<sup>1</sup>, Meleha Ahmad<sup>2</sup>, Emily Gower<sup>3</sup>, Roxana Fu<sup>4</sup>, Fasika Woreta<sup>2</sup>, Shannath Merbs<sup>5</sup>

<sup>1</sup>Wilmer Eye Institute, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, <sup>2</sup>Wilmer Eye Institute, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States, <sup>3</sup>Gillings School of Global Public Health, University of North Carolina, Chapel Hill, North Carolina, United States, <sup>4</sup>Department of Ophthalmology, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, United States, <sup>5</sup>Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, Maryland, United States

### 3 Maximal Levator Resection for Severe Unilateral Congenital Ptosis in Children under 3 Years of Age

Ji Woong Park<sup>1</sup>, Stephanie Ming Young<sup>2</sup>, Junghoon Kim<sup>3</sup>, Im Gyu Kim<sup>3</sup>, Kyung In Woo<sup>3</sup>, Yoon-Duck Kim<sup>3</sup>

<sup>1</sup>Ophthalmology, Seoul Eye Clinic, Anyang, Korea, Republic of, <sup>2</sup>Ophthalmology, National University Hospital, Singapore, Singapore, <sup>3</sup>Ophthalmology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea, Republic of

### 4 Medial Inverting Suture (“MIS”) Technique as Adjunct for Medial Ectropion Repair

Erin Godbout, Dale Meyer

Department of Ophthalmology; Albany Medical College, Ophthalmic Plastic Surgery-Albany Lions Eye Institute, Albany (Slingerlands), New York, United States

# Narrated Presentations

## 5 Revision Ptosis Surgery after Müller Muscle Conjunctival Resection

Justin Karlin<sup>1</sup>, Blake Katsev<sup>1</sup>, Daniel Rootman<sup>2</sup>

<sup>1</sup>Orbital and Ophthalmic Plastic Surgery, Stein and Doheny Eye Institutes, UCLA, Los Angeles, California, United States, <sup>2</sup>Orbital and Ophthalmic Plastic Surgery, Stein and Doheny Eye Institute, UCLA, Los Angeles, California, United States

## 6 The Effect of Zero Gravity on Eyelid and Brow Position

Justin Karlin<sup>1</sup>, Justin Farajzadeh<sup>2</sup>, Stephanie Stacy<sup>3</sup>, Mahtash Esfandiari<sup>4</sup>, Daniel Rootman<sup>1</sup>

<sup>1</sup>Department of Orbital and Ophthalmic Plastic Surgery, Stein and Doheny Eye Institutes, UCLA, Los Angeles, California, United States, <sup>2</sup>Department of Integrative Anatomy, University of Southern California, Los Angeles, California, United States, <sup>3</sup>Department of Statistics, University of California, Los Angeles, Los Angeles, California, United States, <sup>4</sup>Los Angeles, California, United States

## M&M / TOUGH CASES

### 1 Microsurgical Resection of an Orbital Arteriovenous Malformation with Intraoperative Digital Subtraction Angiography

Tatiana Rosenblatt, Andrea Kossler

Ophthalmology, Stanford School of Medicine, Palo Alto, California, United States

### 2 Ocular Trauma Associated with Rubber Bullet Use during Chile's Civil Unrest

Mithra Gonzalez<sup>1</sup>, Rosa Balcells<sup>2</sup>

<sup>1</sup>Department of Ophthalmology, University of Rochester, Rochester, New York, United States, <sup>2</sup>Eye Trauma Unit, Hospital del Salvador University of Chile, Santiago, Chile

## ONCOLOGY

### 1 Immunotherapy with Programmed Cell Death-1 Inhibitors for Locally Unresectable Conjunctival Squamous Cell Carcinoma with Orbital Extension

Hakan Demirci<sup>1</sup>, Victor Elner<sup>2</sup>, Fatma Yesim Demirci<sup>3</sup>, Dan Robinson<sup>4</sup>, Arul Chinnaiyan<sup>4</sup>, Dianne Schlachter<sup>5</sup>, Shannon Joseph<sup>6</sup>, Francis Worden<sup>7</sup>

<sup>1</sup>Department of Ophthalmology and Visual Sciences, Kellogg Eye Center, University of Michigan, University of Michigan, Ann Arbor, Michigan, United States, <sup>2</sup>Department of Ophthalmology and Visual Sciences, Kellogg Eye Center, University of Michigan, Ann Arbor, Michigan, United States, <sup>3</sup>Department of Human Genetics, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania, United States, <sup>4</sup>Michigan Center for Translational Pathology, University of Michigan, Ann Arbor, Michigan, United States, <sup>5</sup>Department of Ophthalmology and Visual Sciences, William Beaumont Hospital, Royal Oak, Michigan, United States, <sup>6</sup>Department of Ophthalmology and Visual Sciences, University of Michigan, Ann Arbor, Michigan, United States, <sup>7</sup>Roger Cancer Center, University of Michigan, Ann Arbor, Michigan, United States



# Narrated Presentations

## 2 Recurrence and Reconstruction of Periocular Primary Cutaneous Melanoma after Mohs Micrographic Surgery with MART-1 Immunostaining

Naomi Gutkind<sup>1</sup>, Brendan McGeehan<sup>2</sup>, William Herskowitz<sup>3</sup>, Leora Aizman<sup>4</sup>, Maureen Maguire<sup>2</sup>, Christopher Miller<sup>5</sup>, Thuzar Shin<sup>5</sup>, Jeremy Etkorn<sup>5</sup>, Cesar Briceno<sup>2</sup>

<sup>1</sup>Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, United States, <sup>2</sup>Ophthalmology, Scheie Eye Institute, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, United States, <sup>3</sup>School of Arts and Sciences, University of Pennsylvania, Philadelphia, Pennsylvania, United States, <sup>4</sup>George Washington University School of Medicine and Health Sciences, Washington, District of Columbia, United States, <sup>5</sup>Dermatology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, United States

## ORBITAL DISEASE

### 1 Clinical-Radiological Basis of Thyroid Associated Symptomatic Dry Eye (TASDE)

Karen Chan<sup>1</sup>, Tiffany Ong<sup>1</sup>, Joyce Chin<sup>1</sup>, Wilson Yip<sup>1</sup>, Alvin Young<sup>1</sup>, Min Deng<sup>1</sup>, Winnie Chu<sup>1</sup>, Kelvin Chong<sup>2</sup>

<sup>1</sup>Hong Kong, Hong Kong (Greater China), <sup>2</sup>Department of Ophthalmology and Visual Sciences, Chinese University of Hong Kong, Hong Kong, Hong Kong (Greater China)

### 2 Intravenous Steroids on Admission for Children with Orbital Cellulitis – 9-year experience

Charlotte L Marous<sup>1</sup>, Roman Shinder<sup>2</sup>

<sup>1</sup>Ophthalmology, SUNY Downstate Medical Center, Brooklyn, New York, United States, <sup>2</sup>Ophthalmology, Otolaryngology, SUNY Downstate Medical Center, Brooklyn, New York, United States

### 3 Long-term Visual Recovery and the Risk Factors Associated with Rebound Thyroid Eye Disease-Compressive Optic Neuropathy following Corticosteroid and Orbital Radiotherapy

Darius Bordbar<sup>1</sup>, Ann Tran<sup>1</sup>, Alison Callahan<sup>2</sup>, Andrea Tooley<sup>1</sup>, Michael Kazim<sup>1</sup>

<sup>1</sup>Oculoplastics and Orbital Surgery, Edward S. Harkness Eye Institute, Columbia University Irving Medical Center, New York, New York, United States, <sup>2</sup>Oculoplastics, Tufts Medical Center, Boston, Massachusetts, United States

### 4 Misdiagnosis of Fungal Infections of the Orbit in the United States

Brittany A Simmons<sup>1</sup>, Anna C Kupcha<sup>2</sup>, James J Law<sup>3</sup>, Keith D Carter<sup>4</sup>, Louise A. Mawn<sup>2</sup>, Erin M. Shriver<sup>5</sup>

<sup>1</sup>Department of Ophthalmology and Visual Sciences, Carver College of Medicine, University of Iowa, Iowa City, Iowa, United States, <sup>2</sup>Department of Ophthalmology and Visual Sciences, Vanderbilt Eye Institute, Vanderbilt University Medical Center, Nashville, Tennessee, United States, <sup>3</sup>Vanderbilt University School of Medicine, Nashville, Tennessee, United States, <sup>4</sup>Department of Ophthalmology and Visual Sciences, Carver College of Medicine, University of Iowa, Iowa City, Iowa, United States, <sup>5</sup>Department of Ophthalmology and Visual Sciences, University of Iowa, Iowa City, Iowa, United States

# Narrated Presentations

- 5 Prevalence and Associated Factors for Thyroid Eye Disease (TED) in the AAO IRIS® Registry**  
Sathyadeepak Ramesh<sup>1,2</sup>, Danielle Fujino<sup>3</sup>, Robert Penne<sup>2</sup>, Qiang Zhang<sup>4</sup>, James Sharpe<sup>4</sup>, Scott Kelly<sup>3</sup>, Flora Lum<sup>3</sup>, Leslie Hyman<sup>5</sup>  
*<sup>1</sup>The Center for Eye and Facial Plastic Surgery, Princeton, New Jersey, United States, <sup>2</sup>Division of Orbital & Ophthalmic Plastic Surgery, Wills Eye Hospital, Philadelphia, Pennsylvania, United States, <sup>3</sup>American Academy of Ophthalmology, San Francisco, California, United States, <sup>4</sup>Wills Eye Hospital, Philadelphia, Pennsylvania, United States, <sup>5</sup>The Vickie and Jack Farber Vision Research Center at Wills Eye, Wills Eye Hospital, Philadelphia, Pennsylvania, United States*
- 6 Prognostic Factors for Relapse and Survival among Patients with Ocular Adnexal Lymphoma: Validation of the 8th Edition of the American Joint Committee on Cancer (AJCC) TNM Classification**  
Ho-Seok Sa<sup>1,2</sup>, Gyejung Kim<sup>1</sup>, Miyoung Kwon<sup>1</sup>  
*<sup>1</sup>Ophthalmology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea, Republic of, <sup>2</sup>Asia-Pacific Society of Ophthalmic Plastic and Reconstructive Surgery, Seoul, Korea, Republic of*
- 7 Radiographic Signs of Extraocular Muscle Avulsion in Setting of Orbital and Facial Trauma**  
Alexandra Van Brummen<sup>1</sup>, Johnson Huang<sup>2</sup>, Emily Li<sup>1</sup>, Christopher Chambers<sup>1</sup>, Raghu Mudumbai<sup>1</sup>, Nina Lu<sup>3</sup>, David Lerner<sup>4</sup>, Matthew Zhang<sup>5</sup>  
*<sup>1</sup>Ophthalmology, University of Washington, Seattle, Washington, United States, <sup>2</sup>Medical School, University of Washington, Seattle, Washington, United States, <sup>3</sup>Otolaryngology-Head and Neck Surgery, University of Washington, Seattle, Washington, United States, <sup>4</sup>Radiology, University of Washington, Seattle, Washington, United States, <sup>5</sup>Ophthalmology, University of Washington, Seattle, Washington, United States*
- 8 Recurrent Disease and Adverse Events after Tocilizumab Treatment for Thyroid Eye Disease**  
Connie M Sears<sup>1</sup>, Ameer D Azad<sup>1</sup>, Katie L Topping<sup>1</sup>, Chrysoula Dosiou<sup>2</sup>, Benjamin Erickson<sup>1</sup>, Andrea L Kossler<sup>1</sup>  
*<sup>1</sup>Department of Ophthalmology, Byers Eye Institute, Stanford University School of Medicine, Palo Alto, California, United States, <sup>2</sup>Department of Medicine - Endocrinology, Gerontology, & Metabolism, Stanford University School of Medicine, Palo Alto, California, United States*
- 9 Results of an Experimental Model of Traumatic Optic Neuropathy**  
Timothy McCulley<sup>1</sup>, Emma McDonnell<sup>1</sup>, Roxana Fu<sup>1</sup>, Nickisa Hodgson<sup>1</sup>, Matt Shaeffer<sup>1</sup>, YTT Ling<sup>1</sup>, Lijo Panghat<sup>1</sup>, Debraj Murkherjee<sup>2</sup>, KT Ramesh<sup>1</sup>, David Yousem<sup>1</sup>, Eric Singman<sup>1</sup>  
*<sup>1</sup>Baltimore, Maryland, United States, <sup>2</sup>Dept. of Neurosurgery, Johns Hopkins Hospital, Baltimore, United States*
- 10 Septic Cavernous Sinus Thrombosis Secondary to Orbital Cellulitis**  
Emily Li, Alexandra Van Brummen, Shu-Hong Chang, Arash J. Amadi, Matthew Zhang, Christopher B. Chambers  
*Ophthalmology, University of Washington School of Medicine, Seattle, Washington, United States*

# Narrated Presentations

## PEDIATRIC

### 1 Echographic Characterization of Extraocular Muscles in Children with Thyroid Dysfunction

Kelly Yom<sup>1</sup>, Brittany Simmons<sup>2</sup>, Pavlina Kemp<sup>2</sup>, Laura Warner<sup>2</sup>, Laura Fuhrmeister<sup>3</sup>, Liuska Pesce<sup>4</sup>, Erin Shriver<sup>2</sup>

*<sup>1</sup>Carver College of Medicine, University of Iowa, Iowa City, Iowa, United States, <sup>2</sup>Department of Ophthalmology and Visual Sciences, University of Iowa, Iowa City, Iowa, United States, <sup>3</sup>Department of Ophthalmology and Visual Sciences, University of Iowa, Iowa City, Iowa, United States, <sup>4</sup>Stead Family Department of Pediatrics, University of Iowa, Iowa City, Iowa, United States*

### 2 Factors Associated with Pediatric Frontalis Sling Exposure or Infection: Single-Institution Experience of 164 Patients

Christopher Dermarkarian, Adam Sweeney, Katherine Williams, Michael Yen, Richard Allen

*Dept. of Ophthalmology, Baylor College of Medicine, Houston, Texas, United States*

### 3 Ocular and Oculoplastic Manifestations of Ectodermal Dysplasia

Daphna Prat<sup>1</sup>, James Katowitz<sup>2</sup>, William Katowitz<sup>2</sup>

*<sup>1</sup>Ophthalmology, Sheba Medical Center, Ramat Gan, Israel, <sup>2</sup>Ophthalmology, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, United States*

# Surgical Videos

Surgical Videos are hosted online before, during, and after the live-virtual meeting. No CME is provided for viewing of videos.

## AESTHETIC

### 1 Evisceration by Equatorial Sclerotomy Technique

Ankita Aishwarya, Santosh Honavar

*Ophthalmology, Centre for Sight Super Speciality Eye Hospital, Hyderabad, India*

### 2 Injecting the Tear Trough Deformity - How Can Higher G Prime Fillers be used Safely and Effectively to Make Your Results Last Longer - A Prospective Interventional Study

Debraj Shome<sup>1</sup>, Rinky Kapoor<sup>2</sup>

*<sup>1</sup>Facial Plastic & Cosmetic Surgery, The Esthetic Clinics, Mumbai, India, <sup>2</sup>Dermatology, Cosmetic Dermatology & Dermato Surgery, The Esthetic Clinics, Mumbai, India*

### 3 Management of Fishmouthing Syndrome

Aimee Chang, Daniel Ozzello, Adeleh Yarmohammadi, Catherine Liu, Don Kikkawa, Bobby Korn

*Ophthalmology, UC San Diego, La Jolla, California, United States*

### 4 Rhinoplasty in Patients with Thin Skin, How to Overcome the Challenges?

Julian De Silva<sup>1</sup>

*<sup>1</sup>Facial Cosmetic & Plastic Surgery, The Centre, London, United Kingdom*

### 5 Structured Blepharoplasty - A New Concept

Filipe Pereira<sup>1</sup>, Allan Pieroni<sup>2</sup>, Roberto Limongi<sup>3</sup>, Patrícia Akaishi<sup>4</sup>

*<sup>1</sup>Oculoplastic, CCPO - Clínica Catarinense de Pálpebras e Olhos, Florianópolis, Brazil, <sup>2</sup>Ophthalmology, USP - Universidade de São Paulo, São Paulo, Brazil, <sup>3</sup>Ophthalmology, UFG - Universidade Federal de Goiás, Goiânia, Brazil, <sup>4</sup>Ophthalmology, USP -RP Universidade São Paulo - Ribeirão Preto, Ribeirão Preto, Brazil*

## EYELID DISORDERS

### 1 Bone Contouring of the Forehead and Brow in Facial Feminization Surgery

Audrey Ko<sup>1,2</sup>, Tathyana Fensterer<sup>3</sup>, Aaron Figueroa<sup>4</sup>, Bradford Lee<sup>5</sup>

*<sup>1</sup>Wolfe Eye Clinic, Des Moines, Iowa, United States, <sup>2</sup>Department of Ophthalmology and Visual Sciences, University of Iowa Hospitals and Clinics, Iowa City, Iowa, United States, <sup>3</sup>Joseph Banis Plastic Surgery, Louisville, Kentucky, United States, <sup>4</sup>Oral and Maxillofacial Surgery, University of Iowa Hospitals and Clinics, Iowa City, Iowa, United States, <sup>5</sup>Bascom Palmer Eye Institute, Miami, Florida, United States*

# Surgical Videos

## 2 Clamless, Sutureless Mueller's muscle conjunctival resection

Daniel Ozzello, Zvi Gur, Catherine Liu, Bobby Korn, Don Kikkawa

*Division of Oculofacial Plastic and Reconstructive Surgery, Shiley Eye Institute, University of California San Diego, San Diego, California, United States*

## 3 Posterior Approach Upper Eyelid Weight Implantation for Paralytic Lagophthalmos

Aliza Epstein<sup>1</sup>, Natalie Homer<sup>1</sup>, Tanuj Nakra<sup>1,2</sup>

*<sup>1</sup>TOC Eye and Face, Austin, Texas, United States, <sup>2</sup>Department of Ophthalmology, Dell Medical School, University of Texas at Austin, Austin, Texas, United States*

## 4 Recession of Lower Eyelid Retractors with Donor Sclera Spacer Graft in Paralytic Eyelid Malposition

Eric Peterson<sup>1</sup>, Peter Timoney<sup>2</sup>, Nicholas Fowler<sup>3</sup>, Kevin Tomasko<sup>4</sup>, Nicole West<sup>5</sup>

*<sup>1</sup>Department of Ophthalmology and Visual Sciences, University of Kentucky, Lexington, Kentucky, United States, <sup>2</sup>Department of Ophthalmology and Visual Sciences, Division of Oculofacial Plastics and Orbital Surgery, University of Kentucky, Lexington, Kentucky, United States, <sup>3</sup>College of Medicine, University of Kentucky, Lexington, Kentucky, United States, <sup>4</sup>Department of Ophthalmology and Visual Sciences, Division of Oculofacial Plastics and Orbital Surgery, University of Louisville, Louisville, Kentucky, United States, <sup>5</sup>Department of Ophthalmology, University of Kentucky, Lexington, Kentucky, United States*

## 5 Scaling Ptosis: The Highs, Lows and Everything in Between

Mrittika Sen<sup>1</sup>, Santosh Honavar<sup>1</sup>, Shiva Shankar Talloju<sup>2</sup>

*<sup>1</sup>Department of Ophthalmic and Facial Plastic Surgery and Ocular Oncology, Centre for Sight Superspeciality Eye Hospital, Hyderabad, India, <sup>2</sup>Centre for Sight Superspeciality Eye Hospital, Hyderabad, India*

## ORBITAL DISEASE

### 1 Modified Scarless Orbital Decompression Technique

Mehryar Ray Taban

*Stein Eye Institute, UCLA, Private Practice in Beverly Hills, Beverly Hills, California, United States*

### 2 Ophthalmic, Minimal Aerosol-Generating Approach (OMEGA) of Medial Orbit Decompressed Endoscopically (MODE)

Kelvin Chong<sup>1</sup>, Kenneth Lai<sup>1</sup>, Karen Chan<sup>1</sup>, Alvin Au<sup>1</sup>, Joyce Chin<sup>1</sup>, Regine Chan<sup>1</sup>, Chi Lai Li<sup>1</sup>, Hunter Yuen<sup>2</sup>

*<sup>1</sup>Hong Kong, Hong Kong (Greater China), <sup>2</sup>Department of Ophthalmology and Visual Sciences, Hong Kong Eye Hospital, Hong Kong, Hong Kong (Greater China)*

### 3 Preseptal Transconjunctival Approach for Orbital Floor Fracture Repair to Prevent Postoperative Lower Eyelid Malposition

Benjamin C Campbell<sup>1,2,3</sup>, Manisha Miller<sup>2,3</sup>, June Geng<sup>3</sup>, H.B. Harold Lee<sup>1,2,3</sup>

*<sup>1</sup>Oculofacial Plastic and Orbital Surgery, LLC, Indianapolis, Indiana, United States, <sup>2</sup>Ascension St. Vincent Hospital, Indianapolis, Indiana, United States, <sup>3</sup>Department of Ophthalmology, Indiana University School of Medicine, Indianapolis, Indiana, United States*

# Surgical Videos

## 4 Rethinking Emergency Lateral Canthotomy and Cantholysis: Make It Big, Ugly, and Effective

Robert A. Mazzoli<sup>1</sup>, James W. Karesh<sup>2</sup>, Sheri L. DeMartelaere<sup>3</sup>, Brett W Davies<sup>3</sup>

<sup>1</sup>Steilacoom, Washington, United States, <sup>2</sup>Ophthalmology, Krieger Eye Institute, Sinai Hospital, Randallstown, Maryland, United States, <sup>3</sup>Ophthalmology, San Antonio Military Medical Center, Brooke Army Medical Center, San Antonio, Texas, United States

## PEDIATRIC

## 1 Autologous Deep Temporal Fascia Frontalis Sling for the Treatment of Congenital Ptosis

Justin Karlin<sup>1</sup>, Robert Goldberg<sup>2</sup>

<sup>1</sup>Orbital and Ophthalmic Plastic Surgery, Stein and Doheny Eye Institutes, UCLA, Los Angeles, California, United States, <sup>2</sup>Los Angeles, California, United States

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## AESTHETIC

### 1 **Change in Iris Color after Blepharoplasty**

Travis Peck, Sathyadeepak Ramesh

*Wills Eye Hospital, Philadelphia, Pennsylvania, United States*

### 2 **Comparison of PrabotulinumtoxinA to OnabotulinumtoxinA in the Treatment of Lateral Canthal Rhytids – A Side by Side, Randomized, Double-Blind Comparison**

Wesley Brundridge<sup>1</sup>, Jill Foster<sup>2</sup>, Craig Czyz<sup>2</sup>, Chris DeBacker<sup>3</sup>, David Holck<sup>3</sup>

*<sup>1</sup>Eyeplastx, US Army, San Antonio, Texas, United States, <sup>2</sup>Columbus, Ohio, United States, <sup>3</sup>Eyeplastx, San Antonio, Texas, United States*

### 3 **Inhaled Nitrous Oxide does not alter Perceived Pain and Anxiety in Experienced Facial Injection Patients**

Natalie Homer<sup>1</sup>, Aliza Epstein<sup>1</sup>, Jessie Banta<sup>2</sup>, Vikram Durairaj<sup>1,3</sup>, Tanuj Nakra<sup>1,4</sup>

*<sup>1</sup>TOC Eye and Face, Austin, Texas, United States, <sup>2</sup>TOC Eye and Face Medical Spa, Austin, Texas, United States, <sup>3</sup>Ophthalmology, Dell Medical School, University of Texas at Austin, Austin, Texas, United States, <sup>4</sup>Dell Medical School, University of Texas at Austin, Austin, Texas, United States*

### 4 **Management Outcomes of Congenital Anophthalmos and Microphthalmos and Association with Orbitopalpebral Cysts**

Harika Regani<sup>1</sup>, Raju Kumar<sup>2</sup>, Raksha Rao<sup>3</sup>, Santosh Honavar<sup>4</sup>

*<sup>1</sup>Oculoplasty, Ocular Oncology and Facial Aesthetics, Centre for Sight Superspeciality Eye hospital, Hyderabad, India, <sup>2</sup>Ocularist, Centre for Sight Superspeciality Eye hospital, Hyderabad, India, <sup>3</sup>Oculoplasty, Ocular Oncology and Facial Aesthetics, Centre for Sight Superspeciality Eye Hospital, Hyderabad, India, <sup>4</sup>Oculoplasty, Ocular Oncology and Facial Aesthetics, Centre for Sight Superspeciality Eye hospital, Hyderabad, India*

### 5 **Melkersson-Rosenthal Syndrome Masquerading as Filler Complication**

Paul Phelps<sup>1,2</sup>

*<sup>1</sup>Surgery, NorthShore University HealthSystem, Glenview, Illinois, United States, <sup>2</sup>Department of Ophthalmology and Visual Sciences, University of Chicago, Chicago, Illinois, United States*

### 6 **Randomized, Masked Study Comparing the Efficacy of Botulinum Toxin Type A Injection After Topical Anesthesia versus Petrolatum Ointment**

Karina Richani<sup>1</sup>, Lucy A Bailey<sup>1</sup>, Alice Chuang<sup>2</sup>, Dianne Schlachter<sup>3,4</sup>

*<sup>1</sup>Ruiz Department of Ophthalmology and Visual Science, McGovern Medical School at The University of Texas Health Science Center at Houston (UTHealth), Houston, Texas, United States, <sup>2</sup>Ruiz Department of Ophthalmology and Visual Science, McGovern Medical School at The University of Texas Health Science Center at Houston (UTHealth), Houston, United States, <sup>3</sup>Consultants in Ophthalmic & Facial Plastic Surgery, PC, Southfield, Michigan, United States, <sup>4</sup>Department of Ophthalmology, Oakland University William Beaumont School of Medicine, Rochester, Michigan, United States*

- 7 Revisiting Anchor Epicanthoplasty in mild to moderate Asian Epicanthal folds; A Clinicopathological Study**  
Houri Esmaeilkhanian<sup>1</sup>, Mohsen Kashkouli<sup>1</sup>, Parya Abdolalizadeh<sup>2</sup>, Mohamadreza Aghamirsalim<sup>3</sup>, Nasrin Shayanfar<sup>4</sup>, Nasser Karimi<sup>2</sup>  
*<sup>1</sup>Eye, - Eye and Skull Base Research Center, The Five Senses Institute, Rassoul Akam Hospital, Iran University of Medical Science, Tehran, Iran, Islamic Republic Of, <sup>2</sup>Eye, Eye and Skull Base Research Center, The Five Senses Institute, Rassoul Akam Hospital, Iran University of Medical Science, Tehran, Iran, Islamic Republic Of, <sup>3</sup>Eye and Skull Base Research Center, The Five Senses Institute, Rassoul Akam Hospital, Iran University of Medical Science, Tehran, Iran, Islamic Republic Of, <sup>4</sup>Pathology, Pathology Department, Rassoul Akam Hospital, Iran University of Medical Science, Tehran, Iran, Islamic Republic Of*
- 8 The Middle Eastern Eyelid and Upper Face: Anthropometric Features**  
Justin Karlin<sup>1</sup>, Justin Farajzadeh<sup>2</sup>, Ariel Azhdam<sup>3</sup>, Sitara Hirji<sup>4</sup>, Stephanie Stacy<sup>5</sup>, Samuel Baugh<sup>5</sup>, Mahtash Esfandiari<sup>5</sup>, Daniel Rootman<sup>6</sup>  
*<sup>1</sup>Orbital and Ophthalmic Plastic Surgery, Stein and Doheny Eye Institutes, UCLA, Los Angeles, California, United States, <sup>2</sup>Department of Integrative Anatomy, University of Southern California, Los Angeles, California, United States, <sup>3</sup>Chicago, Illinois, United States, <sup>4</sup>New York, New York, United States, <sup>5</sup>Department of Statistics, UCLA, Los Angeles, California, United States, <sup>6</sup>Orbital and Ophthalmic Plastic Surgery, Stein and Doheny Eye Institutes, Los Angeles, California, United States*

## EYELID DISORDERS

- 1 A Predictive Model for Temporal Artery Biopsy in the Setting of Suspected Giant Cell Arteritis: A Validation Study**  
Kelsey Roelofs<sup>1,2</sup>, Chris Waite<sup>3</sup>, Ezekiel Weis<sup>4,5</sup>  
*<sup>1</sup>Department of Ophthalmology and Visual Sciences, University of Alberta, Edmonton, Canada, <sup>2</sup>Division of Orbital and Ophthalmic Plastic Surgery, Doheny and Stein Eye institutes, University of California, Los Angeles, California, United States, <sup>3</sup>Department of Ophthalmology and Visual Sciences, University of British Columbia, Kelowna, Canada, <sup>4</sup>Department of Ophthalmology and Visual Sciences, University of Alberta, Edmonton, Canada, <sup>5</sup>Department of Surgery, University of Calgary, Calgary, Canada*
- 2 Anophthalmic Ptosis and the Effects of Enucleation on Upper Eyelid Function**  
Philip Custer<sup>1</sup>, Robi Maamari<sup>1</sup>, Julia Huecker<sup>1</sup>, Mae Gordon<sup>2</sup>  
*<sup>1</sup>John F. Hardesty MD, Department of Ophthalmology and Visual Sciences, Washington University School of Medicine, St. Louis, Missouri, United States, <sup>2</sup>John F. Hardesty MD, Department of Ophthalmology and Visual Sciences; Division of Biostatistics, Washington University School of Medicine, St. Louis, Missouri, United States*
- 3 Automatic Identification of Eyelid Position Abnormalities using Computer Vision**  
Seanna Grob, Tiffany Chen, Michael Deiner, Julius Oatts, Bryan Winn, Robert Kersten, Reza Vagefi, Luca Della Santina  
*Ophthalmology, University of California, San Francisco, San Francisco, California, United States*



## 4 Comparison of Lower Eyelid Spacers for Paralytic Ectropion

Margaret L. Pfeiffer<sup>1,2</sup>, Cindi Yim<sup>1</sup>, Michael A. Burnstine<sup>1,2</sup>

<sup>1</sup>Department of Ophthalmology, USC Roski Eye Institute, Keck School of Medicine of University of Southern California, Los Angeles, California, United States, <sup>2</sup>Eyesthetica, Los Angeles, California, United States

## 5 Compression Analysis of Adult and Pediatric Eyelid Specula

Garcia Giancarlo<sup>1</sup>, Andrea Kossler<sup>2</sup>

<sup>1</sup>Ophthalmology, Stanford, Palo Alto, California, United States, <sup>2</sup>Ophthalmology, Stanford School of Medicine, Palo Alto, California, United States

## 6 Cytomegalovirus Blepharitis Masquerading as Eyelid Malignancy

Christopher P. Long<sup>1</sup>, Daniel J. Ozzello<sup>1</sup>, Bobby S. Korn<sup>2</sup>, Don O. Kikkawa<sup>2</sup>, Catherine Y. Liu<sup>2</sup>

<sup>1</sup>Viterbi Family Department of Ophthalmology, Shiley Eye Institute, UC San Diego, La Jolla, California, United States, <sup>2</sup>Viterbi Family Department of Ophthalmology, Shiley Eye Institute, Division of Oculofacial Plastic and Reconstructive Surgery, UC San Diego, La Jolla, California, United States

## 7 Dosages of Incobotulinumtoxin A Over Time in Patients with Hemifacial Spasm Secondary to Aberrant Regeneration of the Facial Nerve

Edward Wladis, Matthew Habib

Ophthalmology, Albany Medical College, Lions Eye Institute, Albany, New York, United States

## 8 Long-Term Recurrence of Eyelid Retraction after Surgical Correction in Patients with Thyroid Eye Disease

Victoria North, Suzanne Freitag

Ophthalmic Plastic Surgery Service, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, Massachusetts, United States

## 9 More Than Just a Sty: Identifying Seasonal Patterns using Google Trends, and a Review of Infodemiological Literature in Ophthalmology

Tejus Pradeep<sup>1</sup>, Advaitaa Ravipati<sup>1</sup>, Roxana Fu<sup>2</sup>

<sup>1</sup>Ophthalmology, Johns Hopkins Hospital, Baltimore, Maryland, United States, <sup>2</sup>Ophthalmology, University of Pittsburgh, Pittsburgh, Pennsylvania, United States

## 10 Novel Scleral Contact Lens Shape as Initial Non-Surgical Management in a Neonate with a Large Congenital Upper Eyelid Coloboma

Zachary Mortensen<sup>1</sup>, Brittany Simmons<sup>1</sup>, Erin Shriver<sup>1</sup>, Keith Carter<sup>1</sup>, Sara Downes<sup>2</sup>

<sup>1</sup>Ophthalmology, University of Iowa Hospital, Iowa City, Iowa, United States, <sup>2</sup>Ophthalmology, University of Iowa, Iowa City, Iowa, United States

## 11 Periocular Triamcinolone Use and Intraocular Pressures in a Single-Center, Retrospective Cohort

Diana Kim<sup>1</sup>, Sana Bautista<sup>1,2</sup>, Elana Meer<sup>3</sup>, Brendan McGeehan<sup>4</sup>, César Briceño<sup>5</sup>

<sup>1</sup>Department of Ophthalmology, Scheie Eye Institute, University of Pennsylvania, Philadelphia, Pennsylvania, United States, <sup>2</sup>Department of Orbital and Oculoplastic Surgery, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, United States, <sup>3</sup>Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, United States, <sup>4</sup>Department of Ophthalmology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, United States, <sup>5</sup>Department of Ophthalmology, Scheie Eye Institute, University of Pennsylvania, Philadelphia, Pennsylvania, United States

## 12 Perioperative Management of Routine Functional Blepharoplasty and Full Thickness Wedge Resection; A Survey of ASOPRS Members

Caroline Vloka<sup>1,2</sup>

<sup>1</sup>Pittsburgh, Pennsylvania, United States, <sup>2</sup>Daniel Buerger, Pittsburgh, Pennsylvania, United States

## 13 Posterior Approach Ptosis Surgery, Factors that may Influence Success

Noa Kapelushnik<sup>1</sup>, Ofira Zloto<sup>1</sup>, Justin Karlin<sup>2</sup>, Guy Ben Simon<sup>1</sup>

<sup>1</sup>Ophthalmology, Goldschleger Eye Institute, Sheba Medical Center, Ramat Gan, Israel, <sup>2</sup>Ophthalmology, Stein Eye Institute, UCLA, Los Angeles, California, United States

## 14 Reduced Tissue Response with Topical Khat Leaves after Eyelid Surgery

Daphna Prat<sup>1,2</sup>, Shira Sandbank<sup>2</sup>, Tal Davidi<sup>2</sup>, Guy Ben Simon<sup>2</sup>

<sup>1</sup>Ophthalmology, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, United States, <sup>2</sup>Ophthalmology, Goldschleger Eye Institute, Sheba Medical Center, Ramat Gan, Israel

## 15 The Effect of Visually Significant Dermatochalasis and Blepharoptosis on Driving Safety

Suzanne van Landingham<sup>1</sup>, Katherine Lucarelli<sup>2,3</sup>, Kyle McDaniel<sup>4</sup>, Cat Burkat<sup>4</sup>, Mark Lucarelli<sup>4</sup>

<sup>1</sup>Department of Ophthalmology and Visual Sciences, University of Wisconsin-Madison, Madison, Wisconsin, United States, <sup>2</sup>School of Medicine and Public Health, University of Wisconsin-Madison, Madison, Wisconsin, United States, <sup>3</sup>Emergency Medicine, Family Medicine, Amita Health Resurrection Medical Center, Chicago, Illinois, United States, <sup>4</sup>Ophthalmology and Visual Sciences, University of Wisconsin-Madison, Madison, Wisconsin, United States

## 16 Topical Treatments of Ophthalmic Pyogenic Granuloma: A Systematic Review

Yash Vaishnav<sup>1</sup>, Praveen Rajaguru<sup>2</sup>, Taygan Yilmaz<sup>1</sup>, Jamie Shaefer<sup>1</sup>, Michael Migliori<sup>1</sup>

<sup>1</sup>Ophthalmology, Warren Alpert Medical School of Brown University, Providence, Rhode Island, United States, <sup>2</sup>Warren Alpert Medical School of Brown University, Providence, Rhode Island, United States

## 17 Ultrasonographic Visualization of Bilaterally Fused Eyelids in a Premature Neonate

Alexis S. Kassotis<sup>1</sup>, Adam Ruff<sup>2</sup>, Ronald H. Silverman<sup>2</sup>, Lora R. Dagi Glass<sup>2</sup>

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## LACRIMAL

### 1 Can the Preoperative Lacrimal Endoscopic Evaluation Change the Paradigm of Conventional Lacrimal Surgery?

Sang Jae Lee, Minwook Chang

Department of Ophthalmology, Dongguk University, Ilsan Hospital, Goyang, Korea, Republic of

### 2 Dose-Dependent Factors Associated with I-131 Acquired Nasolacrimal Duct Obstruction and Epiphora

Irene Lee<sup>1</sup>, Heather Cole<sup>2</sup>, Aaron Jessop<sup>2</sup>, Rachel Sobel<sup>3</sup>

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### 3 In Office Marsupialization of Lacrimal Ductular Cysts (Dacryops) Using Local Anesthesia – 6 Year Follow-up

Charlotte L. Marous<sup>1</sup>, Roman Shinder<sup>2</sup>

<sup>1</sup>Ophthalmology, SUNY Downstate Medical Center, Brooklyn, New York, United States, <sup>2</sup>Ophthalmology, Otolaryngology, SUNY Downstate Medical Center, Brooklyn, New York, United States

### 4 Silicone Intubation in Endoscopic Mechanical Dacryocystorhinostomy: 12-Year Long-Term (SENT) Results of a Randomized Clinical Trial (RCT) for Primary Nasolacrimal Duct Obstruction (PANDO)

Karen Chan<sup>1</sup>, Grace Yung<sup>1</sup>, Arnold Chee<sup>1</sup>, Joyce Chin<sup>1</sup>, Tiffany Ong<sup>1</sup>, Angela Yiu<sup>1</sup>, Thomas Lo<sup>1</sup>, Yuzhou Zhang<sup>2</sup>, Wilson Yip<sup>1</sup>, Alvin Young<sup>1</sup>, Kelvin Chong<sup>1</sup>

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## M&M / TOUGH CASES

### 1 Acute Retrobulbar Hemorrhage After Tooth Extraction

Aliza Epstein<sup>1</sup>, Natalie Homer<sup>1</sup>, Jeff Alford<sup>2</sup>, Tanuj Nakra<sup>3,4</sup>

<sup>1</sup>TOC Eye and Face, Austin, Texas, United States, <sup>2</sup>Widner and Alford Oral and Maxillofacial Surgery, Austin, Texas, United States, <sup>3</sup>Austin, Texas, United States, <sup>4</sup>The University of Texas at Austin Dell Medical School, Austin, Texas, United States

## 2 Adverse Events Among Oculoplastic Surgeons during Office-Based Procedures

Neil Sheth<sup>1,2</sup>, Preeti Thyparampil<sup>3</sup>

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## 3 Aspiration as a Novel Technique to Address Facial and Periocular Myiasis

Jonathan E. Lu<sup>1</sup>, Margaret L. Pfeiffer<sup>1</sup>, Bhavishya S. Clark<sup>2</sup>, Jessica R. Chang<sup>1</sup>

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## 4 Blindness from Odontogenic Orbital Abscesses Related to COVID-19 Pandemic Suspension of Dental Care

Catherine Sheils, Jordan Conger, Jeremiah Tao, Sanja Cypen

*Gavin Herbert Eye Institute, University of California, Irvine, Irvine, California, United States*

## 5 Giant Cell Arteritis in a 57-Year-Old Hispanic Male Masquerading as a Microvascular Sixth Nerve Palsy

Jordan Conger, Sanja Cypen, Maria Del Valle Estopinal, Jeremiah Tao, Lilangi Ediriwickrema

*Gavin Herbert Eye Institute, University of California, Irvine, Irvine, California, United States*

## 6 Low Grade Osteosarcoma: An Elusive Diagnosis

Emma McDonnell<sup>1</sup>, Nickisa Hodgson<sup>2</sup>, Timothy McCulley<sup>1</sup>

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## 7 Marking Pellet Injury to the Globe - the Dangers of “Non-Lethal” Munitions

Patrick Donegan<sup>1</sup>, James Law<sup>1</sup>, Matthew De Niar<sup>2</sup>, Janice Law<sup>1</sup>, Louise Mawn<sup>1</sup>, Behin Barahimi<sup>1</sup>

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## ONCOLOGY

## 1 A Low-Risk Embryonal Rhabdomyosarcoma of the Orbit Recurring after Chemotherapy and Proton-Beam Therapy

Patrick Daigle, Aaron Chan, Dan Deangelis

*Department of Ophthalmology and Vision Sciences, The Hospital for Sick Children, Toronto, Ontario, Canada*

- 2 Adjuvant External Beam Radiotherapy following Enucleation of Eyes with Extraocular Extension from Uveal Melanoma**  
Kelsey Roelofs<sup>1,2</sup>, Victoria Cohen<sup>3,4</sup>, Mandeep Sagoo<sup>3,4</sup>, Nicholas Plowman<sup>5</sup>, Guy Negretti<sup>3</sup>, Roderick O'Day<sup>3,6</sup>, Gordon Hay<sup>3,4</sup>, Amit Arora<sup>3,4</sup>, Bertil Damato<sup>3,7</sup>  
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- 3 Changing Practice Patterns in Conjunctival Malignant Melanoma**  
Ilyse Kornblau, Matthew W. Wilson  
*Ophthalmology, UTHSC/ Hamilton Eye Institute, Memphis, Tennessee, United States*
- 4 Features Associated with Advanced Non-Melanoma Skin Cancer at Presentation**  
Colin Bacorn, Lily Lin  
*Department of Ophthalmology and Vision Science, University of California Davis Health, Sacramento, California, United States*
- 5 Immune Checkpoints in Orbital Invasion of Basal Cell Carcinoma**  
Edward Wladis<sup>1</sup>, Juliann Lajoie<sup>1</sup>, Kevin Lau<sup>1</sup>, Alejandro Adam<sup>2</sup>  
*<sup>1</sup>Ophthalmology, Albany Medical College, Lions Eye Institute, Albany, New York, United States, <sup>2</sup>Albany Medical College, Center for Molecular Physiology, Albany, New York, United States*
- 6 Leukemic Optic Nerve Infiltration without Optic Nerve Sheath Involvement**  
Paul Chamberlain<sup>1</sup>, Christopher Dermarkarian<sup>1</sup>, Nagham Al-Zubidi<sup>2</sup>, Richard Allen<sup>1</sup>  
*<sup>1</sup>Dept. of Ophthalmology, Baylor College of Medicine, Houston, Texas, United States, <sup>2</sup>Ophthalmology, The University of Texas MD Anderson Cancer Center, Houston, Texas, United States*
- 7 Malignant Solitary Fibrous Tumor of the Cavernous Sinus with Orbital Invasion and Metastasis Following Radiation Therapy for Suspected Meningioma**  
Jessica Crawford, Courtney Kauh, Raymond Cho  
*Department of Ophthalmology and Visual Sciences, The Ohio State University Wexner Medical Center, Columbus, Ohio, United States*

## 8 Prognostic Factors in Childhood Optic Pathway Gliomas

Alexander Walters<sup>1</sup>, Brad Henriksen<sup>2</sup>, C. Blake Perry<sup>3</sup>, Rohan Verma<sup>4</sup>, Leah Reznick<sup>2</sup>, John Ng<sup>4</sup>

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## 9 Quality of Life in Periocular Mohs Micrographic Surgery Patients in a Large Prospective Cohort

Diana Kim<sup>1</sup>, Junqian Zhang<sup>2</sup>, Christopher Miller<sup>2</sup>, Jeremy Etzkorn<sup>2</sup>, Thuzar Shin<sup>2</sup>, Joseph Sobanko<sup>2</sup>, Sonul Mehta<sup>1</sup>

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## 10 Transorbital Subtotal Resection of Sphenoid Wing Meningiomas: A Surgical Case Series

Claire Smith<sup>1</sup>, Justin Karlin<sup>2</sup>, Liza Cohen<sup>1</sup>, Daniel Rootman<sup>1</sup>

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## ORBITAL DISEASE

## 1 3-Dimensional Printing for Surgical Instrument & Orbital Moulds (3SIOM) in Unilateral Orbital Reconstruction – A Pilot Study

Ho Ming Wong, Karen Kar-wun Chan, Joyce Kar Yee Chin, Wai Kuen Yip, Chun-sing Elvis Chui, Chiu Wing Winnie Chu, Kam Lung Chong  
Hong Kong, Hong Kong (Greater China)

## 2 A Case Series of Titanium T-plate as a Treatment in Acquired Nystagmus and Oscillopsia without a Null Zone

Ying Chen<sup>1</sup>, Nicole Topilow<sup>1</sup>, Hilda Capo<sup>1</sup>, David Tse<sup>1,2</sup>

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## 3 A Minimally Invasive, Combined Approach to the Recalcitrant Sino-Orbital Mucocele

Jara Crear<sup>1</sup>, Hakan Demirci<sup>1</sup>, Mark Zacharek<sup>2</sup>

<sup>1</sup>Ophthalmology, University of Michigan Kellogg Eye Center, Ann Arbor, Michigan, United States, <sup>2</sup>Department of Otolaryngology, University of Michigan, Ann Arbor, Michigan, United States

## 4 Acute, Treatment-Related and Chronic Nonvisual Complications of Orbital Cellulitis

Caroline Vloka<sup>1</sup>, John Ng<sup>2</sup>

<sup>1</sup>Ophthalmology, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, United States, <sup>2</sup>Ophthalmology, Oregon Health & Science University, Portland, Oregon, United States

**5 Analysis of Orbital Floor Fractures Using the Trauma Quality Improvement Project (TQIP) database**

Benjamin Steren<sup>1</sup>, Nicholas Apostolopoulos<sup>1,2</sup>, Kevin Pei<sup>3</sup>, Larissa Habib<sup>2</sup>

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**6 Atypical Presentations of Periorbital and Orbital Dermoid Cysts**

Gabriela Lahaie Luna<sup>1</sup>, Sana Bautista<sup>2,3</sup>, William Katowitz<sup>2,3</sup>

<sup>1</sup>Department of Ophthalmology, Kingston Health Sciences Centre, Queen's University, Kingston, Canada, <sup>2</sup>Department of Ophthalmology, Division of Oculoplastic and Orbital Surgery, The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, United States, <sup>3</sup>Department of Ophthalmology, Scheie Eye Institute, University of Pennsylvania, Philadelphia, Pennsylvania, United States

**7 Atypical Systemic Eosinophilic Disease Presenting as Dacryoadenitis**

Liza Cohen<sup>1</sup>, Kayla Danesh<sup>2</sup>, Yan Liu<sup>3</sup>, Justin Karlin<sup>1</sup>, Daniel Rootman<sup>1</sup>

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**8 Biopsy-Proven Orbital Lesions in Korea: The 25-year Experience of 1,273 cases**

Junghoon Kim<sup>1</sup>, Kyung In Woo<sup>1</sup>, Yoon-Duck Kim<sup>1</sup>, Ji Woong Park<sup>2</sup>

<sup>1</sup>Samsung Medical Center, Seoul, Korea, Republic of, <sup>2</sup>Seoul Eye Clinic, Anyang, Korea, Republic of

**9 Causation or Coincidence? Bilateral Orbital Inflammation in a 6-Month Old with SARS-CoV-2 Infection**

Christopher Dermarkarian<sup>1</sup>, Madhuri Chilakapati<sup>2</sup>, Mohamed Hussein<sup>2</sup>, Richard Allen<sup>1</sup>

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**10 Computed Tomographic Imaging Characteristics that Aid in the Prognostication of Orbital Blowout Fractures**

Daniel Rubinstein<sup>1</sup>, Leon Rafailov<sup>2</sup>, Paul Langer<sup>3</sup>

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**11 Corneal Endothelial Cell-like Cells Induced from Human Orbital Adipose Tissue**

Nicole Topilow, Enrique Salero, Alfonso Sabater, Sara Wester

Ophthalmology, Bascom Palmer Eye Institute, University of Miami-Miller School of Medicine, Miami, Florida, United States

- 12 Epidemiologic Trends in Oculoplastics-Related Emergency-Department Visits in the United States, 2006-2015**  
Meleha Ahmad, Nicholas Mahoney, Joseph Canner, Mustafa Iftikhar, Sidra Zafar, Fasika Woreta  
*Department of Ophthalmology, Johns Hopkins University / Wilmer Eye Institute, Baltimore, Maryland, United States*
- 13 Evaluating Recent-onset Diplopia in Thyroid-associated Orbitopathy using Magnetic Resonance Imaging Short Tau Inversion Recovery sequence**  
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- 14 Examining Heat Generation During Orbital Decompression and Potential Optic Nerve Injury**  
Stephen Ambrose, Jason Sokol  
*Ophthalmology, University of Kansas, Prairie Village, Kansas, United States*
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*Ophthalmology, University of California, San Francisco, San Francisco, California, United States*
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Rohan Verma<sup>1</sup>, Dongseok Choi<sup>1,2</sup>, David Wilson<sup>1</sup>, Hans Grossniklaus<sup>3</sup>, Roger Dailey<sup>1</sup>, John Ng<sup>1</sup>, Eric Steele<sup>1</sup>, Stephen Planck<sup>4</sup>, James Rosenbaum<sup>1,5</sup>  
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- 17 Gunshot Wounds to the Eye and Orbit in Appalachia: A Descriptive Case Series and Literature Review**  
Michael Chang<sup>1</sup>, Jamie Schaefer<sup>2</sup>, Bradley Thuro<sup>1</sup>, John Nguyen<sup>1,3</sup>  
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- 18 Impact of Educational Campaign on Referral of Patients with Orbital and Ocular Injuries due to Intimate Partner Violence**  
Salma Dawoud<sup>1</sup>, Ali Cohen<sup>2</sup>, Thomas Clark<sup>3</sup>, Bridget Zimmerman<sup>4</sup>, Erin Shriver<sup>1</sup>  
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**19 In Office Sutureless Correction of Subconjunctival Prolapsed Orbital Fat – 9-year Experience**

Charlotte L Marous<sup>1</sup>, Eva Raparia<sup>1</sup>, Leon Rafailov<sup>2</sup>, Nora Siegal<sup>3</sup>, Roman Shinder<sup>4</sup>

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**20 Incidence of Lateral Rectus Involvement in Sphenoid Wing Meningiomas on Radiologic Imaging: A Retrospective Case Series and Review of the Literature**

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**21 Intralesional Bleomycin Injection for Orbital Vascular Malformations: Indications for Surgical Adjunct and Standalone Therapy**

Bradford W Lee<sup>1</sup>, Allison J Chen<sup>2</sup>, Catherine J Choi<sup>1</sup>, Heather Chen<sup>2</sup>, Bobby S Korn<sup>2</sup>, Don O Kikkawa<sup>2</sup>

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Gye Jung Kim, Ho Seok Sa

Ophthalmology, Seoul Asan Medical Center, Seoul, Korea, Republic of

**23 Magnetic Resonance Imaging Prognostic Factors for Acute Invasive Fungal Rhino-Orbital Sinusitis**

Oluwatobi Idowu<sup>1</sup>, Karl Soderlund<sup>2</sup>, Benjamin Laguna<sup>2</sup>, Davin Ashraf<sup>1</sup>, Benjamin Arnold<sup>3</sup>, Seanna Grob<sup>1</sup>, Bryan Winn<sup>1</sup>, Matthew Russell<sup>4</sup>, Robert Kersten<sup>1</sup>, William Dillon<sup>2</sup>, M Reza Vagefi<sup>1</sup>

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**24 MRSA in Orbital Cellulitis**

Kellie Satterfield, Emily Li, Christopher Chambers, Matthew Zhang

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**25 Orbital Angiomyxoma: A Rare, Aggressive Orbital Tumor Requiring Unique Surgical Management**

Nathan Arboleda, Vamsee Neerukonda, Bryant Carruth

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## 26 **Orbital Cellulitis Secondary to Sinusitis in Upstate New York; Current Incidence, Severity, Management and Outcomes**

Edward Wladis<sup>1</sup>, Kathryn Lee<sup>1</sup>, Milanka Stevanovic<sup>1</sup>, Denis Pauze<sup>2</sup>, Alexander Brand<sup>3</sup>, Paul Feustel<sup>4</sup>

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## 27 **Orbital Inflammation in Myelin Oligodendrocyte Glycoprotein Antibody Associated Disease: A Case Report and Review of the Literature**

Victor Liou<sup>1</sup>, Bart Chwalisz<sup>1,2</sup>, Mary Maher<sup>3</sup>, Michael Yoon<sup>1</sup>

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## 28 **Pathogens and Characteristics of Endophthalmitis Requiring Enucleation or Evisceration at a Single Tertiary Eye Institute**

Sanja Cypen<sup>1</sup>, Andrea Tham<sup>1</sup>, David Merriott<sup>2</sup>, Minnah Ahn<sup>2</sup>, Jeremiah Tao<sup>1</sup>

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## 29 **Periphlebitis of the Superior Ophthalmic Vein**

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## 30 **Queen Palm Orbitopathy: Two Cases of Spontaneous Intraorbital Palm Frond Extrusion**

Nathan Pirakitikulr<sup>1</sup>, Meghana Kalaver<sup>2</sup>, Apostolos Anagnostopoulos<sup>3</sup>, Kevin Clauss<sup>1</sup>, Chrisfouad Alabiad<sup>3</sup>

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## 31 **Retrospective Analysis of Ophthalmic Injuries Secondary to Gunshot Wounds**

James Law<sup>1,2</sup>, Matthew De Niar<sup>3,4</sup>, Mark Breazzano<sup>5</sup>, Eric Brown<sup>1,2</sup>, John Bond III<sup>1,2</sup>, Louise Mawn<sup>1,2</sup>

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## 32 Risk Factors for Endophthalmitis Requiring Eye Removal Surgery

Meleha Ahmad<sup>1</sup>, Rupin Parikh<sup>1</sup>, Tejus Pradeep<sup>1</sup>, Mandeep Singh<sup>1</sup>, Roxana Fu<sup>2</sup>

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## 33 Risk of Thyroid Eye Disease among Patients with Hyperthyroidism: A US Claims Based Analysis

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## 34 Second Hand Smoking as a Risk for Thyroid Eye Disease

Sara Reggie<sup>1</sup>, Stephen Dryden<sup>1</sup>, Elizabeth Eshun<sup>2</sup>, Jameson Dowell<sup>3</sup>, Brian Fowler<sup>1</sup>, James Fleming<sup>4</sup>

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## 35 Simultaneous Extraocular Rectus Muscle Myotomy and Orbital Decompression in Thyroid Orbitopathy with Restrictive Primary Gaze Diplopia

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John F. Hardesty MD, Department of Ophthalmology and Visual Sciences, Washington University School of Medicine, St. Louis, Missouri, United States

## 36 Skull Base Thickness in Patients with Pseudotumor Cerebri Syndrome

Hannah Muniz Castro<sup>1</sup>, Barke Matthew<sup>2</sup>, Thai Do<sup>3</sup>, Alice Chuang<sup>1</sup>, Karina Richani Reverol<sup>1</sup>, Ore-ofe Adesina<sup>1</sup>, Rajan Patel<sup>4</sup>

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## 37 Statin Use Increases the Risk of Ocular Manifestations in Patients with Thyroid-Associated Ophthalmopathy

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## 38 Stereotactic Navigation in Orbital Decompression Surgery - Does It Shorten Operative Time and Improve Outcomes?

Ying Chen, Nicole J. Topilow, Bradford W. Lee

Ophthalmology, Bascom Palmer Eye Institute, Miami, Florida, United States

# Posters

## 39 Teprotumumab for the Treatment of Inactive Thyroid Eye Disease

Stefania Diniz, Liza Cohen, Daniel Rootman

*Division of Orbital and Ophthalmic Plastic Surgery, Jules Stein Eye Institute, University of California (UCLA), Los Angeles, California, United States*

## 40 The Impact of the COVID-19 Indiana Stay-at-Home Order on Orbital and Facial Fractures

Benjamin C Campbell<sup>1,2,3</sup>, Manisha Miller<sup>2,4</sup>, June Geng<sup>4</sup>, David A. Camp<sup>2,4</sup>, H.B. Harold Lee<sup>1,2,4</sup>

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*<sup>3</sup>Indiana University School of Medicine, Indianapolis, Indiana, United States, <sup>4</sup>Department of Ophthalmology, Indiana University School of Medicine, Indianapolis, Indiana, United States*

## 41 To Operate or Not? Management of Orbital Subperiosteal Abscess in Adolescent and Adult Populations

Emily Li, Christopher B. Chambers, Arash J. Amadi, Matthew Zhang, Alexandra Van Brummen, Shu-Hong Chang

*Ophthalmology, University of Washington School of Medicine, Seattle, Washington, United States*

## PEDIATRIC

### 1 Acute Presentation of Orbital Desmoid-type Fibromatosis in an Infant

Elaine Downie<sup>1</sup>, Alexander Miranda<sup>1</sup>, Cat Burkat<sup>2</sup>

*<sup>1</sup>Department of Ophthalmology & Visual Sciences; University of Wisconsin-Madison, Madison, Wisconsin, United States, <sup>2</sup>Oculoplastic, Orbital, & Facial*

*Cosmetic Surgery, Department of Ophthalmology & Visual Sciences; University of Wisconsin-Madison, Madison, Wisconsin, United States*

### 2 Adolescent Orbital Osteomas: Report of 3 Rapidly Progressive Cases and a Systematic Review of the Literature

Sefy Paulose<sup>1</sup>, Andrea Tooley<sup>2</sup>, Ann Tran<sup>3</sup>, Kyle Godfrey<sup>4</sup>, Michael Kazim<sup>3</sup>

*<sup>1</sup>Drexel University College of Medicine, Philadelphia, Pennsylvania, United States, <sup>2</sup>Ophthalmology, Mayo Clinic, Rochester, Minnesota, United States,*

*<sup>3</sup>Ophthalmology, Edward S. Harkness Eye Institute, Columbia University Medical Center, New York, New York, United States, <sup>4</sup>Ophthalmology, Weill Cornell Medical College, New York, New York, United States*

## PRACTICE MANAGEMENT

### 1 (SARS-CoV-2) Focused on Oculoplastics and Ophthalmology Residents in Training for Eyelid Reconstruction Techniques

Sara Plazola

*Oculoplastic, CMN 20 de Noviembre, Mexico City, Mexico*

## 2 A Multimedia Approach to Preoperative Patient Education in Oculoplastic Surgery

Kelly Yom<sup>1</sup>, Erin Shriver<sup>1</sup>, Keith Carter<sup>1</sup>, Bobby Korn<sup>2</sup>, Don Kikkawa<sup>2</sup>, Audrey Ko<sup>3,1</sup>

<sup>1</sup>Department of Ophthalmology and Visual Sciences, University of Iowa Hospitals and Clinics, Iowa City, Iowa, United States, <sup>2</sup>Department of Ophthalmology, University of California San Diego, La Jolla, California, United States, <sup>3</sup>Wolfe Eye Clinic, West Des Moines, Iowa, United States

## 3 ASOPRS Fellow Education during the COVID-19 Crisis

Natalie Homer<sup>1</sup>, Aliza Epstein<sup>1</sup>, Marie Somogyi<sup>1,2</sup>, John Shore<sup>1,3</sup>

<sup>1</sup>TOC Eye and Face, Austin, Texas, United States, <sup>2</sup>Ophthalmology, Dell Medical School, University of Texas at Austin, Austin, Texas, United States, <sup>3</sup>Department of Ophthalmology, Dell Medical School, University of Texas at Austin, Austin, Texas, United States

## 4 Cost Utility Analysis of Steroids + Orbital Radiotherapy versus Orbital Decompression for Thyroid Eye Disease-Compressive Optic Neuropathy

Arpita Maniar, Ann Tran, Andrea Tooley, Michael Kazim

Oculoplastic and Orbital Surgery, Edward S. Harkness Eye Institute, Columbia University Irving Medical Center, New York-Presbyterian Hospital, New York, New York, United States

## 5 Female Representation in Oculoplastic Academic Ranks

Tatiana Rosenblatt, Ameer Azad, Andrea Kossler

Department of Ophthalmology, Byers Eye Institute, Stanford University School of Medicine, Palo Alto, California, United States

## 6 Gender Differences in Publication Productivity and Academic Rank among Oculoplastic Surgery Faculty

Kalla Gervasio<sup>1</sup>, Bonnie Sklar<sup>1</sup>, Anne Nguyen<sup>2</sup>, Albert Wu<sup>3</sup>

<sup>1</sup>Ophthalmology, Wills Eye Hospital, Philadelphia, Pennsylvania, United States, <sup>2</sup>Faculty of Medicine, McGill University, Montreal, Quebec, Canada, <sup>3</sup>Ophthalmology, Stanford School of Medicine, Palo Alto, California, United States

## 7 Long-Acting Opioid Prescribing Patterns of Ophthalmic Plastic Surgeons in the Medicare Part D Database: A Comparison of ASOPRS and Non-ASOPRS Members

Stephen Dryden<sup>1</sup>, Garrett Nix<sup>1</sup>, Albert Vacheron<sup>1</sup>, Jonathan Rho<sup>1</sup>, Sara Reggie<sup>1</sup>, James Fleming<sup>2</sup>, Matthew Wilson<sup>1</sup>, Brian Fowler<sup>1</sup>

<sup>1</sup>Ophthalmology, University of Tennessee, Hamilton Eye Institute, Memphis, Tennessee, United States, <sup>2</sup>Ophthalmology, Veterans Administration Hospital Memphis, Memphis, Tennessee, United States

## 8 Oculoplastics Education in the Coronavirus 2019 Pandemic with Virtual Suturing Curriculum

Lauren DeMaria<sup>1</sup>, Ann Tran<sup>1,2</sup>, Andrea Tooley<sup>1,2</sup>, Richard Lisman<sup>1,2</sup>, Irina Belinsky<sup>1</sup>, Eleanore Kim<sup>1</sup>

<sup>1</sup>Ophthalmology, New York University, New York, New York, United States, <sup>2</sup>Ophthalmology, Manhattan Eye, Ear, and Throat Hospital, Northwell Health, New York, New York, United States

## 9 **Orbital Implants Receiving Premarket Notification**

Yash Vaishnav<sup>1</sup>, Jordan Desautels<sup>2</sup>, Jamie Schaefer<sup>1</sup>, Michael Migliori<sup>1</sup>, Taygan Yilmaz<sup>1</sup>

<sup>1</sup>*Ophthalmology, Warren Alpert Medical School of Brown University, Providence, Rhode Island, United States, <sup>2</sup>Warren Alpert Medical School of Brown University, Providence, Rhode Island, United States*

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### SPEAKER:



**Raymond S. Douglas, MD, PhD**

Professor of Ophthalmology  
Director, Orbital and Thyroid Eye Disease Center  
Cedars-Sinai Medical Center  
Los Angeles, CA

Date: **Saturday, November 21, 2020**

Time: **10:00 AM-11:00 AM CT**

### PRE-REGISTRATION REQUIRED

Space is limited. Register for this meeting now at:

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This presentation is intended for US-based healthcare professionals. For more information about TEPEZZA and TED, please visit [www.tepezzahcp.com](http://www.tepezzahcp.com).

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The objectives of this program are to:

- Provide an overview of the clinical data, including efficacy and safety, for TEPEZZA, the first and only FDA-approved treatment for Thyroid Eye Disease
- Explore real-world case studies using TEPEZZA
- Present clinical data highlighting TEPEZZA durability of response, retreatment, and use in patients with longer duration of disease

#### INDICATION

TEPEZZA is indicated for the treatment of Thyroid Eye Disease.

#### IMPORTANT SAFETY INFORMATION

##### Warnings and Precautions

**Infusion Reactions:** TEPEZZA may cause infusion reactions. Infusion reactions have been reported in approximately 4% of patients treated with TEPEZZA. Reported infusion reactions have usually been mild or moderate in severity. Signs and symptoms may include transient increases in blood pressure, feeling hot, tachycardia, dyspnea, headache, and muscular pain. Infusion reactions may occur during an infusion or within 1.5 hours after an infusion. In patients who experience an infusion reaction, consideration should be given to premedicating with an antihistamine, antipyretic, or corticosteroid and/or administering all subsequent infusions at a slower infusion rate.

**Preexisting Inflammatory Bowel Disease:** TEPEZZA may cause an exacerbation of preexisting inflammatory bowel disease (IBD). Monitor patients with IBD for flare of disease. If IBD exacerbation is suspected, consider discontinuation of TEPEZZA.

**Hyperglycemia:** Increased blood glucose or hyperglycemia may occur in patients treated with TEPEZZA. In clinical trials, 10% of patients (two-thirds of whom had preexisting diabetes or impaired glucose tolerance) experienced hyperglycemia. Hyperglycemic events should be managed with medications for glycemic control, if necessary. Monitor patients for elevated blood glucose and symptoms of hyperglycemia while on treatment with TEPEZZA. Patients with preexisting diabetes should be under appropriate glycemic control before receiving TEPEZZA.

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For additional information on TEPEZZA, please see Full Prescribing Information at [TEPEZZAhcp.com](http://TEPEZZAhcp.com).



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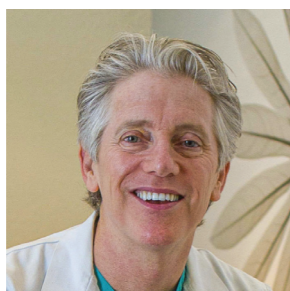
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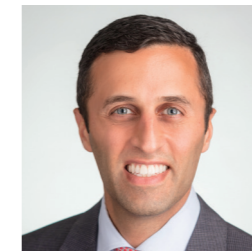
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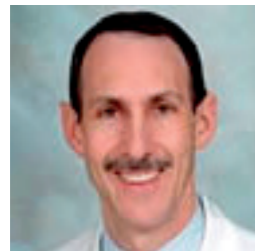
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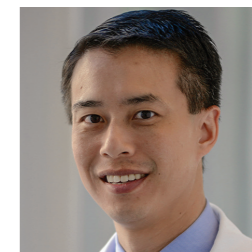
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