

## AMERICAN SOCIETY OF EYE PHYSICIANS AND SURGEONS DAMAGE CONTROL OPHTHALMIC TRAUMA IN-PERSON WET LAB

Lab Schedule | Houston Methodist Auditorium & MITIE Lab

Damage control ophthalmology references a basic set of principles that all ophthalmologists should master to stabilize an injured eye. The goal of this 7-hour course is to provide the learner with tools to improve patient outcomes after ocular and adnexal injuries.

The learner will leave understanding the arc of diagnosis, medical management, microsurgical stabilization, and reconstruction/rehabilitation of the injured eye and gain the knowledge and surgical skills to confidently initiate damage control procedures.

**Lab Capacity:** 32 residents | fellows | practicing ophthalmologists

### Lab Planning Committee:

Amy Coburn, MD | Boonkit Purt, MD | Grayson Armstrong, MD

### Lab Faculty:

Ankooor Shah, MD | Barton Blackorby, MD | Charles Soparker, MD | Fasika Woreta, MD  
Garvin Davis, MD | Grant Justin, MD | Imtiaz Chaudry, MD | Isaac Bleicher, MD  
Joanna Queen, MD | Jose Dalma Weiszhausz, MD | Marguerite Weinert, MD  
Masih Ahmed, MD | Nicholas Scoville, MD | Rupesh Agrawal, MD  
Peter Mortenson, MD | Richard Blanch, PhD, FRCOphth  
Robb Mazzoli, MD | Rosa Tang, MD | Tara Hahn, MD | Yewlin Chee, MD

---

**11:00 AM - 11:30AM:** Faculty Welcome/ Wet Lab Registration Begins  
*(Registration goes until 6:30 PM)*

**11:00 AM-12:00 PM:** Lunch & General Introduction with Surgical Principles  
*with Boonkit Purt, MD, University of Michigan*

**12:00 PM-1:15 PM:** Ocular Trauma Surgical Didactic Session  
*with Barton Blackorby MD, The Retina Institute*

**1:15 PM-6:30 PM:** Hands-On Wet Lab (only open to lab registrants)  
*with Planning Committee & Faculty*

---

**6:30 PM-8:00 PM:** Eye Trauma 2024 Opening Sessions - Welcome Tex Mex  
Dinner and Controversial Cases: 'Real World' Management  
of Challenging Clinical Scenarios

*open to all Eye Trauma 2024 attendees: See sessions on  
the next page.*

Opening Session Schedule | Houston Methodist Auditorium & MITIE Lab

## Dinner & Controversial Cases: 'Real World' Management of Challenging Clinical Scenarios

Sessions start at 6:30 PM US-Central.

---

- **Moderators**

Amy Coburn, MD (Blanton Eye Institute) | Fasika Woreta, MD (Wilmer Eye Institute)  
Grayson W Armstrong, MD (Mass Eye & Ear) | Boonkit Purt, MD (University of Michigan)  
Barton Blackorby, MD (The Retina Institute)  
Nicholas Scoville, MD (Ohio State College of Medicine)  
Grant Justin, MD (Uniformed Services University of the Health Sciences (USUHS))  
Ankoo Shah, MD, PhD (Boston Children's Hospital)

- **Massive Orbital Abscess After an Orbital Wall Fracture**

Darren Chen, MD, Mass Eye and Ear

- **Traumatic Orbital Apex Syndrome: How to Manage?**

Sen (Andrew) Yang, MD, Oregon Health & Science University Casey Eye Institute

- **Identifying and Reattaching the Levator Tendon After Trauma**

Fernando Martinez Guasch, BS, University of Maryland School of Medicine

- **Saved By the Button – Surgical Case Report**

Cameron Yang, MD, The Ohio State University Wexner Medical Center  
Department of Ophthalmology and Visual Sciences

- **A Machete Blow Injury to the Forehead Causes a Chorioretinitis Sclopetaria: a Case Report**

Jose Romero MD, Unidad Nacional De Oftalmologia

- **Man vs. Machine: A Case of Penetrating Ocular Trauma with a Traumatic Cataract**

Lauren Kiryakoza MD, University of Miami/Bascom Palmer Eye Institute

- **A Case Report on the Sequelae of a Paintball Injury Causing a Self-Sealing Full-Thickness Corneal Rupture**

Patricia Bai, MD, University of Illinois Chicago, Illinois Eye and Ear Institute

Breakfast Round Table Options | Houston Methodist Research Institute

**07:30 AM - 08:15 AM US-Central (during registration & breakfast)**

[Click here](#) to sign up for the round tables. Located at the bottom of the registration form.

*Please note: Each educational round table has a 10-person capacity.*

---

## 1. Incorporating Eye Care Into National Disaster Response Planning Systems

*James Auran, MD, (Columbia), Robb Mazzoli, MD, Dale Fajardo EdD, MBA, (VP Education, AAO)*

## 2. Establishing a Trauma/Open Globe Injury Repair Curriculum + Tips and Tricks for Staffing (and doing!) Residents' First Open Globe Repair

*Andrew Pansick, MD (Parkland UT Dallas), Mamta Agarwal MD, FRCSEd, FRCOphth, FACS (UT Health San Antonio)*

## 3. Obtaining Department of Defense Funding for Trauma Research

*Tian Wang, PhD, (Health Science Program Manager, Congressionally Directed Medical Research Programs), Major Thomas Zampieri, PhD, PA (Founder of Blinded Veterans)*

## 4. Databases and Strategies for Publishing your Trauma Research

*Fasika Woreta, MD, MPH (Johns Hopkins), Rupesh Agrawal, MD (Tan Tock Seng Hospital, Singapore)*

## 5. Handling Consults: See it, Punt it, or Something In Between + Ophthalmic Hospitalist Model

*Max Scoville, MD (Ohio State University), Shu Feng, MD (University of Washington), Richard Blanch, PhD, FRCOphth (UK Armed Forces)*

## 6. Telemedicine for Trauma Consultation and Triage

*Grayson W Armstrong, MD MPH (Massachusetts Eye & Ear), Ankoor Shah, MD, PhD (Boston Children's Hospital), Gary Legault, MD (Director, Virtual Medical Center, US Dept of Defense)*

## 7. Military Ophthalmic Trauma Care: Lessons for the Civilian Population

*William Madigan, MD (Chairman, National Children's, past Chairman Uniformed Services), Brittany Powell, CDR, MC, USN (Walter Reed Medical Center)*

## 8. International Collaborations in Ophthalmic Trauma Research and Programs

*Natarajan Sundaram, MD (President, Asia-Pacific Ophthalmic Trauma Society) Carlos Wong, MD (President, Pan-American Ophthalmic Trauma Association), Grant Justin (President ASOT), Jose Dalma-Weiszhausz, MD (Founder, Pan-American Trauma Association), Carlos Andres Wong Morales, MD (President of the Asociación Panamericana de Trauma Oftalmico (APTO))*

## 9. Developing Commercial Products for Ocular Trauma

*Eugene de Juan, MD (UCSF Jean Kelly Stock Distinguished Professor of Ophthalmology)*

## 7:30 AM - 8:15 AM: REGISTRATION & BREAKFAST SYMPOSIUM WITH ROUND TABLES

- Registration remains open until 5:00 PM

## 8:30 AM - 8:32 AM: WELCOME TO HOUSTON & INTRODUCTION OF ASOT PRESIDENT

- Amy Coburn, MD, Blanton Eye Institute

## 8:32 AM - 8:35 AM: OPENING REMARKS

- Grant Justin, MD, Uniformed Services University of the Health Sciences, ASOT President

## KEYNOTE

### 8:35 AM - 8:55 AM: "IT'S TIME FOR A FRESH LOOK AT THE MANAGEMENT OF PENETRATING INJURIES"

- Eugene De Juan, MD, UCSF Jean Kelly Stock Distinguished Professor of Ophthalmology

## PAPER SESSION | NOVEL OCULAR TRAUMA RESEARCH | Q+A

### 8:55 AM - 9:01 AM: "FINITE ELEMENT ANALYSIS OF MECHANICAL OCULAR SEQUELAE FROM BADMINTON SHUTTLECOCK PROJECTILE IMPACT"

- John Hong, BS, University of California Irvine Gavin Herbert Eye Institute

### 9:05 AM - 9:11 AM: "VALUE OF IMPROVED PROTECTIVE EYEWEAR COMPLIANCE IN COMBAT"

- Juan Carlos, Martinez-Camarillo, MD, USC Roski Eye Institute

### 9:15 AM - 9:21 AM: "TRAUMATIC OPTIC NEUROPATHY- CRANIOFACIAL FRACTURE PATTERNS AND MANAGEMENT LENS"

- Nawal Shams, BS, University of Maryland School of Medicine

### 9:25 AM - 9:31 AM: "LENS MANAGEMENT DURING THE SURGICAL REMOVAL OF METALLIC INTRAOCULAR FOREIGN BODIES"

- Sandra R Montezuma, MD, University of Minnesota

### 9:35 AM - 9:41 AM: "THE ASSOCIATION BETWEEN COMPUTERIZED TOMOGRAPHY FINDINGS AND OCULAR TRAUMA SCORE IN OPEN GLOBE INJURY: THE PROGNOSTIC VALUE OF IMAGING"

- Zahra Markatia, MD, Baylor College of Medicine

### 9:46 AM - 9:52 AM: "UTILITY OF CHATGPT RESPONSES IN TRIAGING EMERGENT AND NON-EMERGENT OPHTHALMIC CONDITIONS"

- Rupesh Agrawal, MD, Clinician Scientist and Deputy Head of Research at National Healthcare Group Eye Institute

## POSTER SESSION + INDUSTRY EXHIBITS

### 9:55 AM - 10:30 AM: BE ON THE LOOKOUT FOR A BINGO CARD TO USE WITH INDUSTRY EXHIBITS!

**ASOCIACIÓN PANAMERICANA DE TRAUMA OCULAR (APTO) SYMPOSIUM****10:30 AM - 10:45 AM: "ADVANCED APPROACH TO OPEN GLOBE REPAIR"**

- Jose Dalma-Weiszhausz, MD, Founder of the Pan-American Trauma Association

**10:45 AM - 11:00 AM: "HIGH TECH IOLS IN TRAUMATIC CATARACTS"**

- Carlos Andres Wong Morales, MD, President of the Asociación Panamericana de Trauma Oftalmico

**ASIAN PACIFIC OPHTHALMIC TRAUMA SOCIETY (APOTS) SYMPOSIUM****11:00 AM - 11:15 AM: "VITRECTOMY FOR INTRAOCULAR FOREIGN BODIES"**

- Sundaram Natarajan, MD, President of the Asian Pacific Ophthalmic Trauma Society

**11:15 AM - 11:30 AM: "TIMING AND TECHNIQUES OF TRAUMATIC RETINAL DETACHMENT REPAIR"**

- Brittany Powell, MD Naval Medical Center, San Diego

**HIGHLIGHTS IN OPHTHALMIC TRAUMA LITERATURE | 2023****11:30 AM - 11:40 AM: "THE RISK OF SYMPATHETIC OPHTHALMIA ASSOCIATED WITH OPEN GLOBE INJURY MANAGEMENT STRATEGIES: A META-ANALYSIS"; OPHTHALMOLOGY**

- Lt Col Richard Blanch, PhD, FRCOphth, UK Armed Forces

**11:40 AM - 11:50 AM: "DISABILITY-ADJUSTED LIFE YEARS RESULTING FROM OCULAR INJURY AMONG DEPLOYED SERVICE MEMBERS"; OPHTHALMOLOGY**

- Amanda Staudt, PhD, Geneva Foundation

**11:50 AM - 12:00 PM: "THE OCULAR TRAUMA SCORE UNDERESTIMATES VISUAL RECOVERY FOR THE MOST SEVERE OPEN-GLOBE INJURIES"; OPHTHALMOLOGY RETINA**

- Eli A Perez, MD, University of Iowa

**NASA SYMPOSIUM****12:00 PM - 12:20 PM: "RADIATION, LASERS, TELEMEDICINE AND EYE CARE IN SPACE"**

- COL Keith Manuel, OD, Senior Vision Consultant to NASA's Johnson Space Center Flight Medicine Clinic & Jeffrey Jones, MD, NASA Flight Surgeon

**GRAB-N-GO LUNCH + POSTERS + EXHIBITS + SPOTLIGHT TALKS****12:20 PM - 1:20 PM: BE ON THE LOOKOUT FOR A BINGO CARD TO USE WITH INDUSTRY EXHIBITS!****MANAGEMENT OF POST-TRAUMATIC UVEAL INJURY & GLAUCOMA****1:20 PM - 1:28 PM: "GLAUCOMA IN THE TRAUMATIZED EYE"**

- Roma P Patel, MD, MBA, Baylor College of Medicine

**1:28 PM - 1:36 PM: "IRIS RECONSTRUCTION"**

- Marshall Bowes Hamill, MD, Baylor College of Medicine

**PAPER SESSION: DATA TO DRIVE ADVOCACY: THE EPIDEMIOLOGY OF EYE TRAUMA | Q+A****1:36 PM - 1:41 PM: "PEDIATRIC OCULAR INJURY: TRENDS, SEASONALITY, AND BURDEN FROM A LARGE DATASET AT A QUATERNARY-CARE HOSPITAL"**

- Blanche Kuo, MD, University Hospitals

**1:45 PM - 1:50 PM: "PEDIATRIC TOY-ASSOCIATED OCULAR INJURIES PRESENTING TO UNITED STATES EMERGENCY DEPARTMENTS"**

- Helia Ashourizadeh, MD, Massachusetts Eye & Ear

**1:54 PM - 1:59 PM: "ETIOLOGY AND DEMOGRAPHIC FACTORS ASSOCIATED WITH PEDIATRIC OPEN GLOBE INJURIES IN THE UNITED STATES: A MULTI CENTER STUDY"**

- Shruti Anant BA, Vanderbilt University Medical Center

**2:03 PM - 2:08 PM: "OPHTHALMIC PROFILE OF INCARCERATED PATIENTS AT AN ACADEMIC CENTER"**

- Taylor Kolosky, BS, University of Maryland

**2:12 PM - 2:17 PM: "INCREASING INCIDENCE OF SPORTS-RELATED RETINAL TEARS AND DETACHMENTS IN UNITED STATES EMERGENCY DEPARTMENTS FROM 2003 TO 2022: A MULTI-CENTER CROSS-SECTIONAL STUDY"**

- Edward Lu, MD, Massachusetts Eye and Ear

**2:21 PM - 2:26 PM: "ACCURACY OF TRAUMA RELATED DIAGNOSES FROM TRANSFERRING HOSPITALS TO A LEVEL 1 TRAUMA CENTER GUNSHOT WOUNDS TO THE ORBIT"**

- Hopkin Blake, BS, University of Washington School of Medicine

**2:30 PM - 2:35 PM: "GUNSHOT WOUNDS TO THE ORBIT"**

- Jennifer K Dunnigan, BS, University of Alabama at Birmingham

**LA PIANA-MAZZOLI LAUREATE LECTURE****2:39 PM - 2:54 PM: "PEDIATRIC OPHTHALMIC TRAUMA"**

- Bill Madigan, MD, Chief of Division of Ophthalmology at Children's National Hospital

**KEYNOTE****2:54 PM- 3:19 PM: "ETIOLOGY AND MANAGEMENT OF STRABISMUS FOLLOWING TRAUMA"**

- Jane C. Edmond, MD, President of the American Academy of Ophthalmology

**KUHN LAUREATE LECTURE****3:19 PM - 3:29 PM: "SHAPING THE FUTURE OF OPHTHALMIC TRAUMA CARE: PAST LESSONS, FUTURE DIRECTIONS"**

- Rupesh Agrawal, MD, Secretary of International Society of Ocular Trauma and Asia-Pacific Ophthalmic Trauma Society

**POSTER SESSION + INDUSTRY EXHIBITS + SPOTLIGHT TALKS****3:29 PM - 3:59 PM: BE ON THE LOOKOUT FOR A BINGO CARD TO USE WITH INDUSTRY EXHIBITS!****OCULAR AND ADNEXAL CHEMICAL AND THERMAL INJURIES****3:59 PM - 4:09 PM: "CORNEAL BURNS"**

- Arne Viestenz, MD (University Hospital Halle (Saale), Germany)

## CONTROVERSIAL CASES: "HOW WOULD YOU APPROACH THIS CASE?"

### 4:09 PM - 4:19 PM: "TRAUMATIC SUPERIOR ORBITAL FISSURE SYNDROME"

- Alexis Kassotis, MD, Edward Harkness Eye Center (author)
- James Auran, MD, Columbia University Department of Ophthalmology (presenting)

### 4:19 PM - 4:29 PM: "MANAGEMENT OF LASIK FLAP DISLOCATION DURING OPEN GLOBE INJURY"

- Flavius, Beca, MD, Bascom Palmer Eye Institute

### 4:29 PM - 4:39 PM: "ON EDGE - WHAT TO DO WHEN AN IOFB LANDS IN THE MACULA?"

- Lucy Li, MD, New York Medical College, Westchester Medical Center

### 4:39 PM - 4:49 PM: "ARTIFICIAL IRIS AND INTRAOCULAR LENS COMPLEX SCLERAL FIXATION VIA YAMANE TECHNIQUE IN TRAUMATIC ANIRIDIA AND APHAKIA"

- Prerna, Das, MD, University of Texas Health Science Center at San Antonio Long School of Medicine

### 4:49 PM - 4:59 PM: "A PEDIATRIC TRAUMA SURPRISE"

- Sandra R Montezuma, MD, University of Minnesota

### 4:59 PM - 5:09 PM: "SUPERIOR OPHTHALMIC VEIN CANNULATION FOR TREATMENT OF TRAUMATIC CAROTID-CAVERNOUS SINUS FISTULAS"

- Sruti, Rachapudi, BS/MBA, The University of Texas Medical Branch

## MODERATORS:

- Amy Coburn, MD (Blanton Eye Institute)
- Masih Uddin Ahmed, MD (Baylor College of Medicine)
- Emanuel Chang, MD (Retina and Vitreous of Texas)
- Tammy Hsu, MD (Duke)
- Grayson W Armstrong, MD (Harvard Medical School)
- Nicholas Scoville, MD (Ohio State College of Medicine)
- Grant Justin, MD (Uniformed Services University of the Health Sciences)
- Ankoor Shah, MD, PhD (Boston Children's Hospital)
- Boonkit Purt, MD (University of Michigan)

---

### 5:09 PM - 5:20 PM: CLOSING REMARKS

- Grant Justin, MD, Uniformed Services University of the Health Sciences, ASOT President

## COCKTAIL RECEPTION & BEST PAPER AWARDS

5:30 PM - 7:00 PM: JOIN US FOR DINNER & THE BEST PAPER AWARDS!

## Station 1: Eyelid and Adnexal Trauma

### *o Educational Objectives:*

1. Gain knowledge and experience taking a history of eye injuries involving the eyelids, lacrimal system, and bony orbit.
2. Evaluate and repair marginal eyelid lacerations, treat orbital compartment syndrome, and canalicular lacerations.
3. Discuss the indications for and perform an enucleation.
4. Discuss indications and timing for orbital fracture repair.

### *o Learning Objectives:*

1. Exploration to identify structures; debridement; full-thickness lid marginal laceration repair; reapproximating tarsal plate; reapproximating levator to tarsus; eyelid septal defects; brief teaching of canalicular exploration and repair; tarsorrhaphy; lateral canthotomy/cantholysis for orbital compartment syndrome; enucleation
2. Emphasis on anatomic structures; closure in layers; ideal would construction

## Station 2: Corneoscleral Open Globe Repair

### *o Educational Objectives:*

1. Gain knowledge and experience taking a history of and managing repair of eye injuries involving the cornea, limbus and sclera
2. Become competent at repair of an open-globe injury and understand common complications of open-globe injury.
3. Manage/repair corneal lacerations, limbal and scleral lacerations, hyphema, and endophthalmitis

### *o Learning Objectives:*

1. Suture simple and complex corneal, limbal, scleral lacerations; peritomy with relaxing incision; muscle isolation and repair; manage uveal prolapse; vitreous prolapse; irrigate liquid hyphema; tap/culture/inject; glue; discuss timing of potential vitrectomy, removal of intraocular foreign bodies



### Station 3: Traumatic Cataract

#### *o Educational Objectives:*

1. Gain knowledge and experience taking a history of eye injuries involving complex crystalline lens trauma scenarios with emphasis on capsular integrity, zonular stability, vitreous prolapse and iris injury.
2. Gain proficiency in understanding and practicing lensectomy and be introduced to various intraocular lens implantation techniques in a traumatized eye

#### *o Learning Objectives:*

1. Lensectomy; anterior vitrectomy; paracentesis; trypan blue and triamcinolone staining; removal of clotted hyphema; managing iris prolapse; faculty introduction to capsular tension ring; capsular ring segments and intraocular lens.

### Station 4: Diagnostics & Surgical Equipment

#### *o Educational Objectives:*

1. Gain knowledge in utilization of diagnostic equipment to assess and pre-operatively manage ocular trauma
2. Become familiar with using surgical equipment to plan and execute proper ocular trauma repair

#### *o Learning Objectives:*

1. Ultrasonography, CT and MRI interpretation; use of viscoelastics; personalization and customization of surgical microscopes; phacoemulsification machines; vitrectomy machines; surgical equipment; suture material