

## American Association for Pediatric Ophthalmology and Strabismus

Virtual Meeting – April 9-11, 2021 (All times listed in Eastern Daylight Savings Time)

### FRIDAY, APRIL 9, 2021

8:00 AM – 10:00 AM	Poster Viewing (Authors not present) CME eligible
10:00 AM – 10:10 AM	Introduction and Welcome <b>David K. Wallace, MD, MPH</b>
10:10 AM – 10:25 AM	AAPOS President's Remarks, Honor Awards, Senior Honor Awards, Lifetime Achievement Awards <b>Katherine A. Lee, MD, PhD</b>
10:25 AM – 10:30 AM	Introduction of Costenbader <b>Laura B. Enyedi, MD</b>
10:30 AM – 10:55 AM	Costenbader Lecture Childhood Glaucoma – How I Came to Know So Much and Yet So Little! <b>Sharon F. Freedman, MD</b>
<b>VISION SCREENING – AMBLYOPIA – LOW VISION</b>	
10:55 AM – 11:02 AM	Effect of Dichoptic Digital Therapeutic for Amblyopia: A Randomized Controlled Trial <b>David G. Hunter, MD, PhD</b>
11:02 AM – 11:06 AM	DISCUSSION OF PREVIOUS PAPER <b>Scott A. Larson, MD</b>
11:06 AM – 11:13 AM	A Novel Eye-Tracking-Based, Binocular Digital Therapeutic with High Compliance Improves Visual System Performances in Amblyopia Children – A Pilot Study <b>Tamara Wygnanski-Jaffe, MD</b>
11:13 AM – 11:17 AM	DISCUSSION OF PREVIOUS PAPER <b>Krista R. Kelly, PhD</b>
11:17 AM – 11:24 AM	Multifocal Electroretinography in Amblyopia <b>Elza Rachid</b>
11:24 AM – 11:31 AM	Clinical Evaluation of the Retinal Polarization Scanning-Based Vision Screening Device <b>Lorenzo E. Bosque</b>
11:31 AM – 11:38 AM	Validity and Reliability of Eye Tracking for Visual Assessment in Children with Cortical/Cerebral Visual Impairment <b>Melinda Chang, MD</b>
<b>CATARACT</b>	
11:38 AM – 11:45 AM	Cataract Surgery in Children from Birth to Less than 13 Years of Age in the PEDIG Registry: Status Five Years Following Surgery <b>Michael X. Repka, MD, MBA</b>
11:45 AM – 11:52 AM	Myopic Shift and Anisometropia after Unilateral IOL Implantation: Outcomes at the 10.5 Year Visit in the Infantile Aphakia Treatment Trial (IATS) <b>David R. Weakley, MD</b>
11:52 AM – 11:59 AM	Long Term Outcome of Angle-Supported Anterior Chamber Intraocular Lens Implantation for Pediatric Aphakia <b>M. Edward Wilson, Jr., MD</b>
11:59 AM – 12:06 PM	Unilateral Cataract Surgery Outcomes in Children 2 to 7 Years of Age Using the STORM Cataract Kids Cohort <b>Anastasia A. Alex, MD</b>
12:06 PM – 12:13 PM	Bilateral Cataract Surgery Outcomes in Children 2 to 7 Years of Age Using the STORM Cataract Kids Cohort <b>Carolina Adams, MD</b>
12:13 PM – 12:30 PM	<b>PANEL DISCUSSION</b>
12:30 PM – 1:30 PM	Interactive Poster Session – Author Presentation and Q/A – CME eligible <b>1<sup>st</sup> Set of Posters (A1 – A76) – Authors present in individual chat rooms</b>
1:30 PM – 1:45 PM	Children's Eye Foundation of AAPOS Update

## RETINA – OPTIC NERVE – RETINOBLASTOMA

1:45 PM – 1:52 PM	Retinal Hemorrhage Patterns: A New Paradigm <b>Gil Binenbaum, MD, MSCE</b>
1:52 PM – 1:59 PM	Exploring the Vitreoretinal Interface Using Computer Simulation and Animal Models to Explain Retinal Hemorrhage Patterns in Abusive Head Trauma <b>Donny W. Suh, MD</b>
1:59 PM – 2:06 PM	Appearance of the Optic Nerve in Children with Resolved Papilledema <b>Pimpiroon Ploysangam</b>
2:06 PM – 2:13 PM	Two Year Follow Up of the Prospective Outcomes Study of Pediatric Optic Neuritis <b>Stacy L. Pineles, MD</b>
2:13 PM – 2:20 PM	Visual Outcomes of Optic Pathway Glioma Treated with Chemotherapy in Neurofibromatosis Type 1 <b>Patrícia José</b>
2:20 PM – 2:24 PM	DISCUSSION OF PREVIOUS PAPER <b>Janice Lasky Zeid, MD</b>
2:24 PM – 2:31 PM	The Incidence of Retinoblastoma has Increased: Analysis Based on Results from 40 European Countries <b>Andrew W. Stacey</b>
2:31 PM – 2:45 PM	<b>PANEL DISCUSSION</b>

## WORKSHOPS

3:00 PM – 4:15 PM	Evaluating Optic Nerve Head Elevation <b>Robert A. Avery, DO; Carmelina Trimboli-Heidler; Stacy L. Pineles, MD; Gena Heidary, MD, PhD</b>
	Innovative Techniques Enhancing the Treatment of Complex Strabismus <b>Linda R. Dagi, MD; Federico G. Velez, MD; Sean P. Donahue, MD, PhD; Matthew S. Pihlblad, MD</b>
	Challenges in Pediatric Uveitis: Update on Systemic Management of Pediatric Non-infectious Uveitis (NIU) and Family Perspective <b>Virginia A. Miraldi Utz, MD; Melissa A. Lerman, MD, PhD; Stefanie L. Davidson, MD; Erin D. Stahl, MD; Kara C. LaMattina, MD; Alex V. Levin, MD, MHSc, FAAP, FAAO, FRCSC; Bharti R. Nihalani-Gangwani, MD; Sheila T. Angeles-Han, MD, MSc; Ashley M. Cooper, MD; Jennifer L. Jung, MD; Jing Jin, MD, PhD; Iris S. Kassem, MD, PhD; Darron A. Bacal, MD; Brenda L. Bohnsack, MD, PhD</b>
	ROP: A Team Approach <b>James D. Reynolds, MD; David T. Wheeler, MD; David K. Wallace, MD, MPH; Stephen P. Christiansen, MD; David G. Morrison, MD; David Hodgetts, CO; Sarah Whitecross, CO; Kyle Arnoldi, CO; Jorie Jackson, CO</b>

## WORKSHOPS

4:30 PM – 5:45 PM	AAPOS Genetic Eye Disease Committee Workshop – Hiding in Plain Sight: Genetic Disorders in Routine Pediatric Practice <b>Alina V. Dumitrescu, MD; Virginia Miraldi Utz, MD; Mary C. Whitman, MD, PhD; Deborah Alcorn, MD; Natario L. Couser, MD; Arif O. Khan, MD; Alex V. Levin, MD, MHSc; I. Christopher Lloyd, MBBS, FRCOphth; Melanie A. Schmitt, MD; Wadih M. Zein, MD; Aaron Nagiel, MD, PhD; Kathryn M. Haider, MD; Jefferson Doyle, MBBCH, MHS, PhD; Janice Lasky Zeid, MD; Arlene V. Drack, MD</b>
	What's New and Important in Pediatric Ophthalmology and Strabismus <b>Tina Rutar, MD; Euna Koo, MD; Kimberly G. Yen, MD; Jasleen K. Singh, MD; Marina A. Eisenberg, MD; Ilana B. Friedman, MD; Sharon S. Lehman, MD; Gena Heidary, MD, PhD; Phoebe D. Lenhart, MD; Laryssa A. Huryn, MD; Emily McCourt, MD</b>
	Pediatric Eye Trauma Primer for the On-Call Ophthalmologist <b>Ankoor S. Shah, MD, PhD; Natalie C. Weil, MD; Kara M. Cavuoto, MD; Prethy Rao; Casey J. Beal, MD</b>

Pediatric Cataract Surgery – Techniques and Strategies for 2021 and Beyond  
**M. Edward Wilson, Jr, MD; Erick Bothun, MD; David G. Morrison, MD;  
David A. Plager, MD; Serena X. Wang, MD**

6:00 PM – 7:00 PM Symposium  
**NO CME**

8:00 PM – 9:00 PM CEF of AAPOS Celebration

**SATURDAY, APRIL 10, 2021**

8:00 AM – 10:00 AM Poster Viewing (Authors not present) CME eligible

**STRABISMUS – STRABISMUS SURGERY**

10:00 AM – 10:07 AM A Randomized Trial Evaluating Effectiveness of Overminus Spectacles in Children 3 to 10 Years of Age with Intermittent Exotropia

**Angela M. Chen, OD, MS**

10:07 AM – 10:14 AM Early vs. Late Surgery for Intermittent Exotropia: A Prospective Observational Study

**Ahmed Awadein**

10:14 AM – 10:18 AM DISCUSSION OF PREVIOUS PAPER

**Jonathan M. Holmes, MD**

10:18 AM – 10:25 AM Evaluation of Fenestration Technique of the Medial Rectus Muscle in Pediatric Partially Accommodative Esotropia

**Amr ElKamshoushy**

10:25 AM – 10:32 AM A Novel Suture: Adjustable Superior Oblique Spacer with Optional 7 Days Delayed Adjustment

**Jon Peiter Saunte**

10:32 AM – 10:39 AM The Flipped Classroom Approach to Teaching Horizontal Strabismus in Ophthalmology Residency: A Multi-Centered Randomized Controlled Study

**Randy Y. Lu, BS**

10:39 AM – 10:43 AM DISCUSSION OF PREVIOUS PAPER

**Douglas R. Fredrick, MD**

**OCULOPLASTICS – PUBLIC HEALTH**

10:43 AM – 10:50 AM OPTIC-X Study: Teprotumumab Use as Retreatment and in Longer Duration Thyroid Eye Disease (TED)

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

10:50 AM – 10:54 AM DISCUSSION OF PREVIOUS PAPER

**David B. Granet, MD**

10:54 AM – 11:01 AM Evaluating a More Conservative Approach to the Management of Congenital Nasolacrimal Duct Obstruction: Analysis of Outcomes over a Ten-Year Period

**Jocelyn G. Lam, MD**

11:01 AM – 11:05 AM DISCUSSION OF PREVIOUS PAPER

**Gregg T. Lueder, MD**

11:05 AM – 11:12 AM Patient and Provider Experience During Real-Time Pediatric Ophthalmology Telemedicine Consultations

**Sudha Nallasamy, MD**

11:12 AM – 11:30 AM **PANEL DISCUSSION**

11:30 AM – 12:30 PM Interactive Poster Session – Author Presentation and Q/A – CME eligible

**2<sup>nd</sup> Set of Posters (B1 – B76) – Authors Present in individual chat rooms**

**GLAUCOMA**

12:30 PM – 12:37 PM The Relationship Between Reversal of Optic Nerve Head Cupping and Morphometric Changes as Measured by Intra-Operative Mounted Optical Coherence Tomography in Childhood Glaucoma

**Tanya Glaser, MD**

12:37 PM – 12:44 PM Anterior Segment Optical Coherence Tomography (AS-OCT) Findings in the Infant Aphakia Treatment Study (IATS)

**Allen D. Beck, MD**

12:44 PM – 12:51 PM One-Year Results of Circumferential Trabeculotomy in Pediatric Glaucoma following Cataract Surgery

**Yasmine El Sayed**

12:51 PM – 12:58 PM Dual Blade Ab-interno Trabeculectomy versus Goniotomy in Primary Congenital Glaucoma  
**Hala M. Elhilali, MD, PhD**

### REFRACTION – GENETICS

12:58 PM – 1:05 PM Visual Acuity, Refractive Error and Regression Outcomes in 169 Children with High Myopia Implanted with 2 Different IOLs

**Nichola Faron**

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1:05 PM – 1:09 PM DISCUSSION OF PREVIOUS PAPER

**Deborah K. VanderVeen, MD**

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1:09 PM – 1:16 PM Excimer Laser Keratectomy and Phakic Intraocular Lens Implantation Surgery for Children with Autism: Improvements in Visual Function and Behavior

**Margaret Reynolds**

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1:16 PM – 1:23 PM Glasses versus Observation for Moderate Bilateral Astigmatism in 1- to 7-Year-Olds

**Jenny Wang**

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1:23 PM – 1:30 PM A Different Type of Genetic Therapy: Correcting A Defective Gene Using Antisense Oligonucleotide Treatment in CEP290 p.Cys998X LCA

**Arlene V. Drack, MD**

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1:30 PM – 1:45 PM **PANEL DISCUSSION**

### WORKSHOPS

2:00 PM – 3:15 PM Complicated Strabismus Management

**Rosario M. Gomez de Liano, MD; Jan Tjeerd De Faber, MD;  
Mohamad S. Jaafar, MD; Seyhan B. Özkan, MD; David A. Plager, MD;  
Miho Sato, MD**

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What Kept Me Up at Night: Strategies for Surgical Complications

**Justin D. Marsh, MD; Jennifer D. Davidson, MD; Courtney L. Kraus, MD;  
Scott E. Olitsky, MD; Evan Silverstein, MD; Sasha Strul, MD; Donny W. Suh, MD;  
Laura A. Torrado, MD;**

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Pediatric Ophthalmology at the Cutting Edge: 2020

**Stacy L. Pineles, MD; Maan S. Alkharashi, FRCSC, MD; Anat Zipori Bachar, MD;  
Steven E. Brooks, MD; Saurabh Jain, FRCOphth; Eedy Mezer, MD;  
Tamara Wygnanski-Jaffe, MD; Michael B. Yang, MD;  
Alejandra G. de Alba Campomanes, MD**

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Pressure's On: Challenging Cases and Considerations in Pediatric Glaucoma Treatment

**Deborah K. VanderVeen, MD; Raymond G. Areaux, MD; Ta Chen Peter Chang, MD;  
Bibiana Jin Reiser, MD; Faruk H. Orge, MD**

### WORKSHOPS

3:30 PM – 4:45 PM IPOSC Workshop: Nightmares in Strabismus

**Faruk H. Orge, MD; Jonathan M. Holmes, MD; Sonal Farzavandi;  
Jan Tjeerd de Faber, MD; Tamara Wygnanski-Jaffe, MD; Derek T. Sprunger, MD;  
Eedy Mezer, MD**

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Best Practice Patterns: How to Effectively Use OCT in Pediatric Ophthalmology

**Leah G. Reznick, MD; Allison R. Loh, MD; Pete Campbell, MD; Beth Edmunds, MD;  
Annie Kuo, MD**

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Pediatric Anterior Segment Problems You Don't Want to Miss

**Federico G. Velez, MD; Deborah K. VanderVeen, MD;  
Kamiar Mireskandari, MD, PhD; Phoebe D. Lenhart, MD; Monte A. Del Monte, MD;  
Christopher J. Lyons, MD**

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Pediatric Eye in the Wild Blue Yonder

**Daniel T. Weaver, MD; Katherine A. Lee, MD, PhD; Donny W. Suh, MD;  
Robert W. Arnold, MD**

### WORKSHOPS

5:00 PM – 6:15 PM Demystifying Dyslexia: Hints for the Ophthalmologist

**Deborah M. Alcorn, MD; Laura J. Heinmiller, MD; A. Melinda Rainey, MD;  
Sheryl M. Handler, MD; Tammy Yanovitch, MD; Learning Disabilities Committee**

Surgical Techniques in Strabismus: An International Masterclass  
**Saurabh Jain, FRCOphth; Faruk H. Orge, MD; Jan Tjeerd de Faber, MD; Miho Sato, MD; Anthony Vivian; Derek T. Sprunger, MD; Sonal Farzavandi, MD; Rosario M. Gomez de Liano, MD**

Lessons from Our Retirement  
**John W. Simon, MD; Albert W. Biglan, MD; John D. Baker, MD; Constance E. West, MD**

New Technologies in Pediatric Ophthalmology: A View from the Inside  
**Tamara Wygnanski-Jaffe, MD; Robert W. Arnold, MD; Michael F. Chiang, MD; Joseph L. Demer, MD, PhD; David G. Hunter, MD, PhD; Cynthia A. Toth, MD; Paul Yang, MD**

6:30 PM – 7:30 PM Symposium  
**NO CME**

**SUNDAY, APRIL 11, 2021**

8:00 AM – 10:00 AM Poster Viewing (Authors not present) CME eligible

10:00 AM – 10:20 AM Reevaluation of Strabismus Surgery Payments  
**Michael X. Repka, MD, MBA**

**RETINOPATHY OF PREMATURITY**

10:20 AM – 10:27 AM Validation of Use of Smartphone Based Screening for Retinopathy of Prematurity in Low Resource Setting  
**Srijana Adhikari**

10:27 AM – 10:34 AM Update on International Classification of Retinopathy of Prematurity, 3<sup>rd</sup> Edition (ICROP3)  
**Michael F. Chiang, MD**

10:34 AM – 10:41 AM Effectiveness of Very Low-Dose Intravitreal Bevacizumab for Retinopathy of Prematurity  
**David K. Wallace, MD, MPH**

10:41 AM – 10:45 AM DISCUSSION OF PREVIOUS PAPER  
**Graham E. Quinn, MD, MSCE**

10:45 AM – 10:52 AM Short-Term Risk of Retinal Detachment Following Treatment of Retinopathy of Prematurity with Laser Photocoagulation versus Intravitreal Anti-Vascular Endothelial Growth Factor  
**Gerard P. Barry, MD**

10:52 AM – 10:59 AM Infants Initially Treated with Bevacizumab for Retinopathy of Prematurity (ROP): Follow-up for those Receiving Prophylactic Laser versus Continued Screening per Current United States ROP Screening Guidelines  
**Gloria J. Hong**

10:59 AM – 11:06 AM Angiographic Review of Choroidal Involution in Eyes with Retinopathy of Prematurity Post-Bevacizumab Treatment  
**Swati Agarwal-Sinha, MD**

11:06 AM – 11:13 AM Vitreous Findings Quantified by Handheld Spectral Domain Optical Coherence Tomography Correlate with Retinopathy of Prematurity Severity  
**Michelle T. Cabrera, MD**

11:13 AM – 11:30 AM **PANEL DISCUSSION**

11:30 AM – 12:30 PM Interactive Poster Session – Author Presentation and Q/A – CME eligible  
**3<sup>rd</sup> Set of Posters (C1 – C80) – Authors Present in individual chat rooms**

12:30 PM – 2:00 PM Difficult Problems Non-Strabismus Workshop  
**Laura B. Enyedi, MD; David L. Rogers, MD; Brenda L. Bohnsack, MD, PhD; Yasmin S. Bradfield, MD; Stacy L. Pineles, MD; Erin D. Stahl, MD**

2:00 PM – 2:20 PM AAPOS Updates

2:30 PM – 4:00 PM Difficult Problems Strabismus Workshop  
**David K. Wallace, MD, MPH; Steven E. Brooks, MD; Stephen P. Christiansen, MD; Linda R. Dagi, MD; Nandini G. Gandhi, MD; David A. Plager, MD; Erin Schotthoefer, MD**

4:10 PM – 4:45 PM AAPOS Business Meeting

**ON DEMAND WORKSHOPS**

1 Hour SEC Practice Management Workshop: 2021: Private Equity and Ophthalmology in the Era of Covid-19  
**K. David Epley, MD; Gary Lelli, MD; Shira Robbins, MD; Eric Packwood, MD**

1 Hour	OMIC Workshop: Idiopathic Intracranial Hypertension Claims <b>Christie L. Morse, MD; Robert Wiggins, MD; Linda Harrison, PhD</b>
1.5 Hours	Documentation and Coding Updates for the Pediatric Practice in 2021 <b>Sue J. Vicchriilli, COT, OCS, OCSR; Michael Bartiss, OD, MD, FAAO, FAAP; Traci Fritz, COE; Robert S. Gold, MD, FAAP; Shira L. Robbins, MD, FAAO, FAAP; Lance M. Siegel, MD, FAAO, FAAP</b>

## **Posters**

*Poster numbers are subject to change. Please check the final program for poster number at the meeting.*

### **First Set of Posters – Poster Session A**

#### **AMBLYOPIA**

- A1 Clinical Profile of Amblyopia in a Community's Tertiary Care Facility without Effective Vision Screening in Saudi Arabia.  
**Shatha Alfreihi, MD**
- A2 Amblyopia Treatment Outcomes in Patients with Neurodevelopmental Delay  
**Ryan N. Chinn**
- A3 Hand Kinematics during Visually-Guided Reaching in Children with Deprivation Amblyopia  
**Krista R. Kelly, PhD**
- A4 Implementation of a Novel, Web-Based Platform for Tracking Amblyopia Patients: Our Experiences  
**Tinh Le**
- A5 Fixational Eye Movements and Visual Functions in Amblyopia  
**Fatema Ghasia, MD**
- A6 Vision Screening Practices of Pediatric Primary Care Providers in New Haven County, Connecticut  
**Anuoluwapo E. Sopeyin, MD**
- A7 Change in Refractive Error With Atropine Penalization in Anisohypermetropic Amblyopia  
**Hersh Varma**
- A8 Visual Acuity Outcomes and Loss to Follow-Up in the Treatment of Amblyopia in Children of Lower Socioeconomic Backgrounds  
**Sean M. Yuan**

#### **ANESTHESIA**

- A9 Oculocardiac Reflex during Retinopathy of Prematurity Exams  
**Robert W. Arnold, MD**
- A10 Deep Sedation for Ophthalmology Procedures Outside of the Operating Room  
**Adriana P. Grigorian, MD**

#### **ANTERIOR SEGMENT**

- A11 Keratoconus Incidence Among Children with High Regular Astigmatism: Tomographic and Refractive Changes over Time  
**Maamoun Abdul Fattah, MD**
- A12 Idiopathic Bleb Formation in Childhood: Report of Two Cases and Literature Review  
**Nouf Al-Farsi, MD, FRCSC**
- A13 Visual Outcomes of Herpes Simplex Keratitis in Children Age 6 Years and Younger  
**Omair Ali, MD**
- A14 Open Globes in Children: Characteristics, Accuracy, and Prognosis of Computed Tomography Imaging in the Management of Pediatric Open Globe Injuries  
**Adam J. Cantor, MD**
- A15 Anterior Segment Ischemia after Laser for Retinopathy of Prematurity Previously Treated with Anti-Vascular Endothelial Growth Factor  
**Clara Castillejo Becerra**
- A16 Combined Scheimpflug and Optical Coherence Tomography Imaging in Screening of Keratoconus in Down Syndrome Children  
**Kareem Elessawy**
- A17 Clinical Features of Posterior Polymorphous Corneal Dystrophy in Children  
**Abdelrahman M. Elhusseiny, MD**

- A18 Efficacy of Systemic Immunomodulatory Therapy in Pediatric Anterior Uveitis  
**Elisah M. Huynh, BS**
- A19 Correlation of Central Corneal Thickness and Systemic Factors in Premature Infants with and without Retinopathy of Prematurity  
**Yasmin Islam, MD**
- A20 Pediatric Corneal Collagen Crosslinking Clinical Outcomes at a Single Children's Hospital  
**William J. Johnson, MD**
- A21 Population-Based Incidence and Clinical Features of Pediatric Anterior Segment Disorders  
**Eric J. Kim**
- A22 Ophthalmic Involvement in Pediatric Eczema Herpeticum  
**Elana Meer, BA**
- A23 Indications and Long-Term Outcomes of Pediatric Penetrating Keratoplasty in a Hispanic Population  
**Nallely R. Morales-Mancillas, MD**
- A24 Timing of Systemic Immunosuppressive Initiation and its Impact on Complications of Pediatric Noninfectious Anterior Uveitis using Claims Data  
**Solin Saleh, MD**
- A25 Treatment of Infantile Conjunctival Hemangiomas with Topical Timolol  
**Jamie Weiser, OD**

### CATARACT

- A26 Ultrasound Biomicroscopy to Detect Iris Structural Changes following Pediatric Cataract Surgery  
**Jana Bregman, MD**
- A27 Systemic Evaluation of Children with Cataract  
**Joyce J. Chan, FRCOphth**
- A28 Serum Cortisol and Adrenocorticotrophic Hormone (ACTH) in Infants Receiving Topical Ocular Corticosteroids Following Cataract Surgery  
**Dina El-Fayoumi**
- A29 Accuracy of A Universal Theoretical Formula for Lens Power Calculation in Pediatric Intraocular Lens Implantation  
**Sarah E. Eppley**
- A30 Incidence of Retinal Detachment following Lens Surgery in Children and Young Adults with Non-Traumatic Ectopia Lentis  
**Hwan Heo**
- A31 Assessment Of Macular Edema After Pediatric Cataract And Intraocular Lens Implantation Surgery Using Handheld Spectral Domain Optical Coherence Tomography  
**Heldz Khalil**
- A32 Pediatric Cataract Surgery following Treatment for Retinoblastoma  
**Stephanie N. Kletke, MD, FRCSC**
- A33 Refractive Growth of the Crystalline Lens  
**Scott R. Lambert, MD**
- A34 Ultrasound Biomicroscopy Characterization of Pediatric Cataract Morphology and Posterior Capsular Abnormalities  
**Andrew R. Lee, MD**
- A35 Aqueous Humor Proteomics of Subjects Undergoing Cataract Surgery  
**Jacob S. Martin**
- A36 Incidence of Early Retinal Detachment after Pediatric Cataract Surgery using Optum® Dataset  
**Angeline Nguyen, MD**
- A37 Systemic Diagnoses in Pediatric Patients undergoing Cataract Surgery  
**Bharti Nihalani-Gangwani, MD**
- A38 Management of Cataracts in Pediatric Patients with Developmental Delay  
**Sugi Panneerselvam, BA**
- A39 Fixation Instability during Binocular Viewing in Children following Dense Unilateral Cataract Extraction  
**Prem N. Patel, BSA**
- A40 Characteristics and Outcomes of Cataract surgery in Children with a Cataract at Uveitis Presentation  
**Veronique Promelle**
- A41 Results of Genetic, Infectious, and Metabolic Testing in the Work-Up of Bilateral Pediatric Cataracts at a Tertiary Pediatric Hospital  
**Michael A. Puente**
- A42 Preoperative Central Corneal Thickness in Eyes with Pediatric Cataract versus Normal Fellow Eyes  
**Katherine S. Wood, MD**

## GENETIC DISORDERS

- A43 Ocular Manifestations in Turner Syndrome  
**Rebecca Mets Halgrimson, MD**
- A44 Stargardt Misdiagnosis: How Ocular Genetics Helps  
**Manuel Benjamin B. Ibanez, IV**
- A46 Ocular Phenotype of Genetically Confirmed Kabuki Patients  
**Mireille N. Jabroun, MD**
- A47 Ophthalmic Features in Hereditary Sensory Neuropathy Type 1A: A Case Report and Systematic Review  
**Virang Kumar**
- A48 A Syndrome of Hearing Loss and FEVR in a Girl with Biallelic FZD4 Mutations  
**Benjamin S. Meyers**
- A49 Interpretation of Electroretinograms in Children- Know your Equipment  
**Wanda L. Pfeifer, OCC, COMT**
- A49 Phenotypic and Genetic Differences of Autosomal Recessive Bestrophinopathy and Best Vitelliform Macular Dystrophy  
**Tyler Pfister**
- A50 The Demographics, Clinical and Molecular Features of Pediatric Patients with Retinitis Pigmentosa due to Variants in the EYS Gene  
**Karishma Popli**
- A51 Hereditary Motor and Sensory Neuropathy Type VIA with Optic Atrophy in Two Sisters with Pathologic Myopia: A Case Series and Review  
**Kimberly M. Seamon**
- A52 A Retrospective Analysis of the Multi-Disciplinary Approach to Ocular Genetics: First Year Clinical Results.  
**Jackson Townsend**

## GLAUCOMA

- A53 Structural Changes of the Anterior Segment Measured by Ultrasound Biomicroscopy Following Pediatric Glaucoma Surgery  
**Hampton Addis**
- A54 Clinical Outcomes in Children and Adolescents Referred for Increased Cup-Disc Ratio at a Tertiary Referral Center over 9 Years  
**Shaza N. Al-Holou, MD**
- A55 Fusional Amplitudes in Glaucoma Patients with Variable Visual Field Loss Compared to Controls  
**Apostolos G. Anagnostopoulos, MD**
- A56 Childhood Glaucoma in Down Syndrome  
**Raymond G. Areaux, Jr, MD**
- A57 Examining the Association of Prostaglandin Analogs with Uveitis in Pediatric Patients with Glaucoma  
**Nicholas Bello**
- A58 Subconjunctival versus Combined Subconjunctival and Subscleral Flap Mitomycin C in Pediatric Trabeculectomy: A Randomized Clinical Study.  
**Ahmed Elansary**
- A59 Outcomes and Associations in Children with Sturge-Weber Syndrome and Glaucoma  
**Harald Gjerde, MD**
- A60 Evaluation of Macular Abnormalities in Childhood Glaucoma by Mounted Optical Coherence Tomography  
**Michelle S. Go**
- A61 Pediatric Glaucoma Suspects: Characteristics and Outcomes  
**Monte D. Mills, MD**
- A62 Falsely High Rebound Tonometry  
**Jade M. Price, MD**
- A63 Quantitative Assessment of the Ciliary Body following Transscleral Cyclophotocoagulation using 3D Ultrasound Biomicroscopy  
**Duriye Damla Sevgi**
- A64 Survey of Childhood Glaucoma at a Tertiary Referral Center: Etiology and Outcomes  
**Emily K. Tam**
- A65 Rebound vs. Applanation Tonometry Comparison in Supine Patients under Anesthesia  
**Allison C. Umfress, MD**
- A66 Micropulse Transscleral Cyclophotocoagulation for the Management of Refractory Pediatric Glaucoma  
**Bo Wang, MD**



## HORIZONTAL STRABISMUS

- A67 Evaluation of Efficacy of Botulinum Toxin Injection In the Treatment of Infantile Esotropia  
**Muneeb Alam, MD**
- A68 Surgery Versus Botulinum Toxin for the Treatment of Partially Accommodative Esotropia  
**Sara H. Alshammari**
- A69 Habitual Fixation in Monocular Esotropia (ET) Does Not Alter Properties of the Horizontal Rectus Extraocular Muscles (EOMs)  
**Robert A. Clark, MD**
- A70 Stereopsis in Children with Intermittent Exotropia and DVD  
**Lindsay Klaehn**
- A71 Characteristics of Childhood Intermittent Exotropia with and without DVD  
**Andrea M. Kramer, CO**
- A72 Correlates of Consecutive Exotropia  
**Jims L. Mims III, MD**
- A73 Medium-Term Observation of Children with Untreated Intermittent Exotropia  
**Brian G. Mohny, MD**
- A74 Accommodative Esotropia Greater at Near Fixation: Can a Patch Test Differentiate a Novel Subtype?  
**J. Reeves Ellis Samaha, MD, MPH**
- A75 Demographic Characteristics of Duane Syndrome Patients with Synergistic Divergence and Accessory Fibrotic Extraocular Muscles  
**Federico G. Velez, MD**

## Second Set of Posters – Poster Session B

### HORIZONTAL STRABISMUS SURGERY

- B1 Acute-Onset, Comitant Esotropia Outcomes are Optimized by Prompt Intervention: An International Experience  
**Crystal S. Cheung, MD**
- B2 Routine Use of Non-absorbable Sutures in Bi-medial Rectus Recession as a Measure to Reduce the Incidence of Consecutive Exotropia  
**Yair Morad**
- B3 Surgical Outcomes of Medial Rectus Plication for Management of Basic Type Intermittent Exotropia  
**Heba Fouad**
- B4 Weakening Effectiveness of Y Splitting Recession in Lateral Rectus  
**Birsen Gokyigit, MD**
- B5 Unilateral Horizontal Muscle Recessions for Pediatric Comitant Strabismus  
**Kimberly S. Merrill**
- B6 Favorable Long Term Surgical Outcome of Rectus Muscle Plication  
**Harshad P. Patel, MD**
- B7 Patterns of Esotropia in Down Syndrome Patients  
**Christina Scelfo**
- B8 Intermediate-Term Outcomes of Horizontal Muscle Plication versus Resection  
**Maria Stunkel**
- B9 Surgical Outcomes of Strabismus Surgery in Sensory Exotropia  
**Emilia Varrone**
- B10 Income Disparities in Outcomes of Horizontal Strabismus Surgery in a Pediatric Population  
**Alexandra N. Zdonczyk**

### LOW VISION

- B11 Prevalence of Cerebral Visual Impairment (CVI) Education During Ophthalmology and Optometry Training Programs  
**Katherine Castleberry**
- B12 Cerebral Visual Impairment (CVI) Education and Practice Reported by Practicing Ophthalmologists and Optometrists  
**Monica Sandoval**
- B13 Telemedicine-Based Approach in Children with Cerebral Visual Impairment (CVI)  
**Terry L. Schwartz, MD**

## NEURO-OPHTHALMOLOGY

- B14 Etiology and Outcomes of Pediatric Sixth Nerve Palsies With and Without Underlying Neurologic Disease  
**Mark Borchert, MD**
- B15 Idiopathic Intracranial Hypertension (IIH) in Children: Clinical Features and Long-Term Outcomes  
**Hannah Chiu**
- B16 Pseudotumor Cerebri Syndrome from Secondary Causes  
**Michelle M. Falcone, MD**
- B17 Incidence and Prognostic Role of the Ocular Manifestations of Neuroblastoma in Children  
**Sybille Graef**
- B18 Ophthalmic Complications of Spina Bifida: A 10-Year Review of the Irish Experience  
**Treasa Murphy**
- B19 Three Cases of Ocular Neuromyotonia Associated with Proton Beam Therapy  
**Cody Richardson**
- B20 Birth Parameters that Predict Retinal Nerve Fiber Layer Thickness at 36 Weeks Postmenstrual Age in Preterm Infants  
**Liangbo L. Shen, BS**
- B21 Pediatric Optic Disc Drusen: A Retrospective Study of 63 Children  
**Barrett N. Thompson, MD**
- B22 Utility of a Virtual Clinic for Suspected Papilledema  
**Jack West, MBBS**

## OCULAR INFECTION

- B23 Toxic Epidermal Necrolysis Triggered by COVID-19  
**Andrea Jara, MD**
- B24 Optimal Dosing of Trimethoprim Sulfamethoxazole in Outpatient Treatment of Pre-Septal Orbital Cellulitis  
**Alan B. Richards, MD**

## OCULAR SENSORY

- B25 The Baltimore Pediatric Ocular Trauma Study: Sensorimotor Outcomes Following Pediatric Open Globe Injuries  
**Sue Junn, BS**
- B26 Visual Acuity and Stereoacuity Improvement in Children With and Without Fusion Maldevelopment Nystagmus Syndrome.  
**Matteo Scaramuzzi**

## OCULOPLASTICS

- B27 Telemedicine in the Diagnosis and Management of Pediatric Blepharoptosis  
**Natasha N. Loudin**
- B28 Efficacy and Cost Comparison of Congenital Dacryocystocele Treatment Options  
**W. Walker Motley, III, MD**
- B29 Primary Monocanalicular Stent Intubation for the Treatment of Congenital Nasolacrimal Duct Obstruction in Children with Down Syndrome  
**Daphna Prat**
- B30 Association between Mitochondrial Myopathy and Isolated Congenital Ptosis  
**Varsha S. Sathappan**
- B31 Strabismus Associated with Craniosynostosis and related Craniofacial Surgery  
**Jessica N. Thayer**

## OPTIC NERVE

- B32 Predictors of Surgical Necessity in Pediatric Idiopathic Intracranial Hypertension  
**Monica Manrique**
- B33 Optic Nerve Aplasia  
**Brooke Saffren**
- B34 Optic Nerve Size Assessed by Magnetic Resonance Imaging and Visual Acuity in Optic Nerve Hypoplasia  
**Samantha D. Sagaser**
- B35 Uveitis and Optic Nerve Edema: When is Neuroimaging Necessary?  
**Danielle Sarlo, DO**

B36 Rates of Endocrine Disease in Patients with Unilateral versus Bilateral Optic Nerve Hypoplasia  
**Raghav Vadhul**

### **PRACTICE MANAGEMENT**

- B37 Scheduling Lag Time for Leukocoria, Cataracts, and Abnormal Red Reflex Referrals  
**Joseph F. Griffith**
- B38 Gender Diversity of First Author Posters and Presenters at AAPOS Annual Conferences: 2010-2018  
**Obadah Moushmoush**
- B39 The Strength of Rebound: Patient Care and Financial Consequences of COVID-19 in U.S. Pediatric Ophthalmology  
**Shira L. Robbins, MD, FAAO, FAAP**
- B40 Publication Rates of Abstracts Submitted to the American Association of Pediatric Ophthalmology and Strabismus Annual Meeting  
**Rachel Shemesh**
- B41 The Socioeconomic Burden of Imaging in Pediatric Ophthalmology Private Practices  
**Lance M. Siegel, MD**
- B42 Economic Evaluations in Pediatric Ophthalmology and Strabismus  
**Anania G. Woldetensaye**

### **PUBLIC HEALTH**

- B43 Evaluation of Pediatric Ophthalmologists' Perspectives of Artificial Intelligence in Ophthalmology: A Pilot Study  
**Tala Al-Khaled, MD**
- B44 Gender Authorship of Articles in Pediatric Ophthalmology and Strabismus between 2002 and 2018  
**Einav Baharav**
- B45 Ocular Findings and Visual Function in Children Examined during the Zika Health Brigade in the US Virgin Islands, March 2018  
**Lucas Bonafede, MD**
- B46 Impact of Socioeconomic Factors in Access to Care in Pediatric Ophthalmology during the COVID-19 Pandemic  
**Kaitlyn Brettin**
- B47 Trends in Pediatric Ocular Trauma Presenting to an Ophthalmology-Specific Emergency Department During the COVID-19 Pandemic  
**Kara M. Cavuoto, MD**
- B48 A Randomized Clinical Trial Evaluating Learning Impacts of Provision of Eyeglasses through a School-Based Vision Program  
**Megan E. Collins**
- B49 Opioid Prescribing Patterns of Pediatric Ophthalmologists and Strabismologists in the Medicare Part D Database  
**Stephen C. Dryden, MD**
- B50 The Development of an Institutional Protocol Based on National Guidelines Can Help Effectively Utilize Ophthalmic Consults in Suspected Child Abuse  
**Austin Ellyson, DO**
- B51 Impact of COVID-19 on Mental Health in Eye Care Professionals, Staff and Students.  
**Samiksha Fouzdar Jain**
- B52 Visual Acuity and Refractive Findings in Children Prescribed Glasses from a School-Based Vision Program  
**Xinxing Guo, MD, PhD**
- B53 Impact of Socioeconomic Inequities and Adverse Childhood Experiences on Visual Function in Pediatric Ophthalmology Patients  
**Bonnie He**
- B54 Photopsias in the Pediatric Population  
**Amanda Ismail, MD**
- B55 Missed Appointments in a Canadian Tertiary Care, Academic Centre Pediatric Ophthalmology and Adult Strabismus Service: Rates and Financial Impact  
**Karthikeyan Manickavachagam, HBSc, BScN**
- B56 Prevalence and Distribution of Ocular Disorders in the First Year of Life  
**Sasha A. Mansukhani, MBBS**
- B57 Eye Injuries Associated with Nerf Gun Use in a Pediatric Population: A Case Series  
**Natalia G. Morales**
- B58 Influence of Mother Tongue on Eye Movement During Reading in Primary School Aged Children

**Anja M. Palmowski-Wolfe**

B59 Epidemiology of Pediatric School-Associated Ocular Injuries

**Parth S. Patel**

B60 Strabismus Surgery Decreases the Risk of Injuries among Pediatric Patients in the OptumLabs Data Warehouse

**Anne Coleman**

B61 The Parks Record Project: A Searchable Database of Dr. Marshall Parks' Clinic Records

**Dakota Vaughan**

B62 Trends in Pediatric Visits at a Tertiary Ophthalmology Center During COVID-19 Pandemic

**Mariam S. Vila Delgado**

B63 The Impact of Geographic Socioeconomic Disadvantage on Vision Screening Failure Rates in Schools: Analysis of a School-Based Vision Program

**Hursuong Vongsachang**

**REFRACTIVE**

B64 Excimer Laser Keratectomy for Hyperopia in Special Needs Children: Longer Term Outcomes

**Kamran Ahmed, MD**

B65 A Novel Grading Method to Compare Sphero-Cylinder Spectacle Refractions for Instrument Validation and Remote Lay Dispensing

**Joshua S. Beveridge**

**RETINA**

B66 The Impact of Moderate-to-Late Prematurity on Ocular Structures and Visual Function in Saudi Children

**Ola Abudaowd**

B67 Retinal Hemorrhage after Pediatric Neurosurgical Procedures

**Caroline W. Chung, MD**

B68 Early Recognition of Raccoon Roundworm Retinitis in Toddlers May Limit Neurologic Devastation: A Photographic Report of Two Cases

**Malka Davina Kirschenbaum, MD**

B69 Retinal Pigment Epitheliopathy in DRESS Syndrome

**Zachary T. Lowery**

B70 Congenital Retinal Folds

**Gregg T. Lueder, MD**

B71 Ocular Examinations and Findings in Children on Vigabatrin

**Keith D. Miller**

B72 Predictors of Long-Term Visual Outcome following Retinal Hemorrhage from Abusive Head Trauma

**Julia E. Reid, MD**

B73 Normative Values for Standard Full Field Electroretinography in a Tertiary Care Pediatric Population in Chicago

**Jennifer L. Rossen, MD**

B74 Retinal Complications of Optic Nerve and Choroidal Colobomas in Pediatric Patients

**Bilal Shaukat, MD**

**RETINOBLASTOMA**

B75 Primary Laser Therapy as Monotherapy for Discrete Retinoblastoma

**Sameh E. Soliman**

**Third Set of Posters – Poster Session C**

**RETINOPATHY OF PREMATUREITY**

C1 Comparative Study of Serum Levels of Vascular Endothelial Growth Factor (VEGF) before and after Intravitreal Injection of Two Different Doses of Bevacizumab (IVB) for Retinopathy of Prematurity (ROP)

**Nooran M. Abdelkader, Msc**

C2 Systemic Hypertension after Intravitreal Bevacizumab Therapy for Type I ROP: Is There Evidence for Concern?

**Ema Avdagic, MD**

C3 Validation of the Postnatal Growth and Retinopathy of Prematurity Modified Criteria in Latin American Infants

- Ellis J. Bloom, BS**
- C4 Influence of Mosaic Fundus and Fluorescein Angiography Photographs on Treatment Requiring Retinopathy of Prematurity Diagnosis
- Basak Can, MD**
- C5 Risk of Corneal Epithelial Defects with and without Post-Operative Erythromycin Ointment after Laser Photocoagulation for Retinopathy of Prematurity (ROP)
- Apoorv P. Chebolu, MD**
- C6 Investigating Association Between SARDH Gene RS582326 Polymorphism and Retinopathy of Prematurity (ROP) in Malaysian Infants
- May M. Choo**
- C7 Detectability of Synthetic Retinopathy of Prematurity Retinal Fundus Images
- Aaron S. Coyner**
- C8 Validation of the WINROP Algorithm for Predicting Retinopathy of Prematurity Requiring Treatment in a Large Canadian Cohort
- Stephanie Dotchin**
- C9 Daily Oxygen Supplementation and Risk of Retinopathy of Prematurity
- Marcela M. Estrada, MD**
- C10 Prevalence of Peripheral Avascular Retina in Spontaneously Regressed Retinopathy of Prematurity
- Adam M. Hanif, MD**
- C11 Management of Stage 3-and-a-Half Retinopathy of Prematurity
- Youssef A. Helmy, MD**
- C12 Blindness Secondary to Retinopathy of Prematurity in Sub-Saharan Africa
- Scott K. Herrod**
- C13 Reducing Neonatal Pain Scores During Retinopathy of Prematurity (ROP) Screening Exams
- Vivian Hill**
- C14 Comparison of the G-ROP Versus WINROP Algorithm in Predicting Retinopathy of Prematurity
- Paul Huang, MD**
- C15 A Comparison of Primary Laser versus Delayed Laser after Bevacizumab for Type 1 Retinopathy of Prematurity (ROP)
- Juliann E. Lajoie, MD**
- C16 Retinopathy of Prematurity and Telemedicine in Developing Countries
- Viviane Lanzelotte, MD**
- C17 Machine Learning and Logistic Mixed Model Approach to Create Handheld Optical Coherence Tomography Models Predicting Referral-Warranted Retinopathy of Prematurity
- Alex T. Legocki, MD**
- C18 Characteristics of Spontaneous Regression of Mild and Moderate Retinopathy of Prematurity (ROP)
- Ryan M. Leverant**
- C19 Do all Children Screened for Retinopathy of Prematurity Require Follow-up Ophthalmic Examinations after Discharge?
- Shahriyar Majidi**
- C20 Preterm Infant Stress during Handheld Optical Coherence Tomography versus Binocular Indirect Ophthalmoscopy Examination for Retinopathy of Prematurity
- Shwetha Mangalesh, MD**
- C21 A Comparison of ROP in Preterm Infants over 1000 grams: Shreveport, LA and Kyiv, Ukraine
- Cynthia Noguera, MD**
- C22 Validation of a Retinopathy of Prematurity Activity Scale
- Alomi O. Parikh, MD**
- C23 Brain Development in Infants Treated for Retinopathy of Prematurity (ROP) with Anti-VEGF Injection vs Laser Using Data from Term Brain MRIs
- Michael Pham, MD**
- C24 Trends in Retinopathy of Prematurity Screening, Incidence, Severity, and Treatment in the United States, the Vermont Oxford Network Experience from 2008-2018
- S. Grace Prakalapakorn**
- C25 Effects of Altitude on Retinopathy of Prematurity
- Rachel E. Reem, MD**
- C26 Late Visual Outcomes in Infants Treated with Primary Bevacizumab for Type 1 Retinopathy of Prematurity
- Sarah H. Rodriguez, MD, MPH**
- C27 Effects of Timing and Type of Enteral Feedings on Risk of Retinopathy of Prematurity
- Yvette L. Schein, BA**
- C28 Vitreous Opacities in Full-Term and Preterm Infants by Handheld Swept Source Optical Coherence Tomography
- Nicholas M. Scoville**

- C29 Semi-Automated Vessel Analysis of En Face Vessel Maps of the Posterior Pole Generated from Bedside Optical Coherence Tomography  
**Kai R. Seely, BS**
- C30 A Smartphone Application to Measure Neurodevelopmental Outcomes among Infants with Retinopathy of Prematurity  
**Zhuangjun Si, MD**
- C31 Birth Weights Are a Stronger Predictor of ROP Progression to Plus Disease than Gestational Age in Community Hospital Screenings  
**Brent A. Siegel**
- C32 Associations of Cardiovascular Disease with Retinopathy of Prematurity  
**Alyssa Spiller, BS**
- C33 Association of Surgical Necrotizing Enterocolitis with Retinopathy of Prematurity  
**Lauren A. Tomlinson, BS**
- C34 Racial Differences in Retinopathy of Prematurity  
**Jingyun Wang**

### STRABISMUS

- C35 Strabismus Rehabilitation – Where Surgery and Orthoptic Treatment are Side by Side  
**Victoria Balasanyan, MD, PhD**
- C36 Comparison of Simultaneous Prism and Cover Test (SPCT) with Prism and Alternate Cover Test (PACT) Measurements with Final Power of Press-On Prism Power Dispensed  
**Alex Christoff, CO**
- C37 Long-Term Ophthalmic Outcomes in 120 Children with Unilateral Coronal Synostosis: A Retrospective Look Over 20 Years  
**Linda R. Dagi, MD**
- C38 Binocular Vision Abnormalities in Parkinson's Disease  
**Palak Gupta**
- C39 Impact of Diplopic versus Non-Diplopic Strabismus on Quality of Life in Adolescent Children, Assessed using the PedEyeQ  
**Sarah R. Hatt**
- C40 Effectiveness of Single Botulinum Toxin Injection for Strabismus in Children with and without Neurological Disorders  
**Jing Jin, MD, PhD**
- C41 Effect of Lane Length on Strabismus Measurements  
**Michael Langué**
- C42 Appearance of Strabismus in Implicit Association Tests  
**Justin D. Marsh, MD**
- C43 Strabismus in Pediatric Cataract Surgery  
**Laruen C. Mehner, MD**

### STRABISMUS SURGERY

- C44 Effect of Combining Inferior Oblique Muscle Weakening Procedures with Bilateral Injection of Botulinum Toxin to both Medial Recti on Esotropia's Surgical Correction  
**Manar Alzahrani**
- C45 Old Strabismus Surgery is not a Sight for Sore Eyes: New Approaches are Necessary  
**Igor Aznauryan, MD, PhD**
- C46 Surgical Dose-Response in Paretic Strabismus  
**Kaila Bishop**
- C47 Accuracy of Surgical Memory in Patients with Prior Strabismus Surgery  
**Jennifer Bu**
- C48 Population-based Prevalence of Infectious Complications Following Strabismus Surgery  
**Arthika Chandramohan, MD, MPH**
- C49 Suture Plication in the Treatment of Complicated Paralytic Strabismus  
**Patrick J. Droste, MS, MD**
- C50 Overcorrection After Vertical Muscle Transposition with Augmentation Sutures in Sixth Nerve Palsy  
**Dina H. Hassanein**
- C51 Current Practice Patterns of Vasoconstrictor Use Among Strabismus Surgeons  
**David Nash**
- C52 Post-Operative Outcomes in Pediatric Patients with Strabismic Amblyopia Unresponsive to Therapy  
**Casey G. Smith**

- C53 Anatomical Features of Extraocular Muscles in Patients with Strabismus Who Underwent Surgical Treatment  
**Adriana Solano**
- C54 The Efficacy of Unilateral Lateral Rectus Recession for Moderate-angle Exotropia in Young Children  
**Oriel Spierer**
- C55 Dorsal Midbrain Syndrome: Outcomes after Strabismus Surgery  
**Marguerite C. Weinert**

#### VERTICAL STRABISMUS

- C56 Range of Forced Cyclorotation in Superior Oblique Palsy and V-Pattern Strabismus  
**Seung Ah Chung, MD**
- C57 Quantitative Intraoperative Torsional Forced Duction Test in a Pediatric Population  
**Andrew Jilwan, MD**
- C58 Outcomes of Botulinum Toxin Injection of the Inferior Oblique Muscles  
**Isdin Oke, MD**
- C59 Cerebral Correlates of Facial Asymmetry Associated with Superior Oblique-Related Ocular Torticollis  
**Sachin Patel**
- C60 The Use of OCT in the Assessment of Ocular Torsion  
**Gill Roper-Hall, DBOT, CO**

#### VERTICAL STRABISMUS SURGERY

- C61 Different Surgical Modalities for Varying Presentations of Superior Oblique Palsy  
**Ghada H. Allam, MD**
- C62 Unilateral Graded Marginal Myotomy for Minimally Overacting Inferior Oblique Muscle  
**Rahul Bhola, MD, MBA**
- C63 Treatment of Persistent Strabismus Following Anterior Transposition of the Inferior Oblique Muscles  
**Marlo Galli**
- C64 Effect of Anterior and Nasal Transposition of the Inferior Oblique Muscle  
**Tobias Torp-Pedersen**

#### VISION ASSESSMENT

- C65 Trichromatic Enhanced Dynamic Color Screening with a Handheld Gaming Device  
**Andrew W. Arnold**
- C66 A New Visual Acuity Test for Use in Children age 4-17  
**Guy Barnett-Itzhaki, CO**
- C67 Comparison of a Virtual-Reality Headset-Based Perimetry Device to Standard Humphrey Visual Field in Normal Children  
**Edward F. Linton, MD**
- C68 Visual Acuity Testing Methods in Children  
**Lana D. Verkuil, MD**

#### VISION SCREENING

- C69 Pupil-Size and Refractive Normative Data in Israeli Children  
**Daniel Bahir, BSc**
- C70 Detection of Treatment-Requiring Hyperopia using a Photo Vision Screening Device in a Preschool Population  
**Kellyn N. Bellsmith**
- C71 Quickly Closing the Loop for Failed Vision Screening Referrals - A Multi-Disciplinary Rapid Access Vision Screening Pilot Clinic  
**Laura K. Chalkley, CO**
- C72 Drive-thru Children Eye Screening using a Vision Screening Device in Response to Covid 19 in Indonesia  
**Kianti R. Darusman, MD**
- C73 A Retrospective Cohort Study of Failed Vision Screening Visits for Refractive Error Presenting to Pediatric Eye Providers  
**Alexander H. de Castro-Abeger, MD, MBA**
- C74 Comparison of Two Photo-Screeners in a Population of Syrian Refugee Children  
**John P. Gorham, MD**
- C75 Outcomes of Pediatric Photoscreening for Children with Diabetes Mellitus  
**Alison Teo**

- C76 Assessment of the Utilization and Barriers of Eye Care Services following Pediatric Vision Screening within Public Schools  
**Patrick Wang, BHSc**
- C77 Age Does Not Influence the Positive Predictive Value of Vision Screening to Detect Amblyopia Risk Factors  
**Raymond Zhou, BS**
- VISION SCREENING – NO CME**
- C78 Detection of Strabismus with a Vision Screening Device in a Statewide Vision Screening Program  
**Abigail Petrunak, BS**