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**  

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:00 AM – 10:00 AM</td>
<td>Poster Viewing (Authors not present) CME eligible</td>
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</tbody>
</table>
| 10:00 AM – 10:10 AM | Introduction and Welcome  
  **David K. Wallace, MD, MPH**                                      |
| 10:10 AM – 10:25 AM | AAPOS President’s and Past President’s Remarks, Honor Awards, Senior Honor Awards, Lifetime Achievement Awards  
  **Katherine A. Lee, MD, PhD & Jane C. Edmond, MD** |
| 10:25 AM – 10:30 AM | Introduction of Costenbader Lecturer  
  **Laura B. Enyedi, MD**                                           |
| 10:30 AM – 10:55 AM | Costenbader Lecture  
  *Childhood Glaucoma – How I Came to Know So Much and Yet So Little!*  
  **Sharon F. Freedman, MD**                                      |

**VISION SCREENING – AMBLYOPIA – LOW VISION**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 10:55 AM – 11:02 AM | Effect of Dichoptic Digital Therapeutic for Amblyopia: A Randomized Controlled Trial  
  **David G. Hunter, MD, PhD**                                    |
| 11:02 AM – 11:06 AM | DISCUSSION OF PREVIOUS PAPER  
  **Scott A. Larson, MD**                                          |
| 11:06 AM – 11:13 AM | A Novel Eye-Tracking-Based, Binocular Digital Therapeutic with High Compliance Improves Visual System Performances in Amblyopic Children – A Pilot Study  
  **Tamara Wygnanski-Jaffe, MD**                                    |
| 11:13 AM – 11:17 AM | DISCUSSION OF PREVIOUS PAPER  
  **Krista R. Kelly, PhD**                                         |
| 11:17 AM – 11:24 AM | Multifocal Electroretinography in Amblyopia  
  **Elza Rachid**                                                   |
| 11:24 AM – 11:31 AM | Clinical Evaluation of the Retinal Polarization Scanning-Based Vision Screening Device  
  **Lorenzo E. Bosque**                                             |
| 11:31 AM – 11:38 AM | Validity and Reliability of Eye Tracking for Visual Assessment in Children with Cortical/Cerebral Visual Impairment  
  **Melinda Chang, MD**                                            |

**CATARACT**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 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  
  **Michael X. Repka, MD, MBA**                                     |
| 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)  
  **David R. Weakley, MD**                                         |
| 11:52 AM – 11:59 AM | Long Term Outcome of Angle-Supported Anterior Chamber Intraocular Lens Implantation for Pediatric Aphakia  
  **M. Edward Wilson, Jr., MD**                                   |
| 11:59 AM – 12:06 PM | Unilateral Cataract Surgery Outcomes in Children 2 to 7 Years of Age Using the STORM Cataract Kids Cohort  
  **Anastasia A. Alex, MD**                                        |
| 12:06 PM – 12:13 PM | Bilateral Cataract Surgery Outcomes in Children 2 to 7 Years of Age Using the STORM Cataract Kids Cohort  
  **Carolina Adams, MD**                                           |
| 12:13 PM – 12:30 PM | PANEL DISCUSSION                                                                             |
| 12:30 PM – 1:30 PM | Interactive Poster Session – Author Presentation and Q/A – CME eligible  
  **1st Set of Posters (A1 – A75) – Authors present in individual chat rooms** |
| 1:30 PM – 1:45 PM | Children’s Eye Foundation of AAPOS Update  
  **Derek T. Sprunger, MD & Kristen Barbarics**                   |
## Retinal Hemorrhage Patterns: A New Paradigm

**Gil Benenbaum, MD, MSCE**

### Exploring the Vitreoretinal Interface Using Computer Simulation and Animal Models to Explain Retinal Hemorrhage Patterns in Abusive Head Trauma

**Donny W. Suh, MD**

### Appearance of the Optic Nerve in Children with Resolved Papilledema

**Pimpiroon Ploysangam, MD**

### Two Year Follow Up of the Prospective Outcomes Study of Pediatric Optic Neuritis

**Stacy L. Pineles, MD**

### Visual Outcomes of Optic Pathway Glioma Treated with Chemotherapy in Neurofibromatosis Type 1

**Patricia José**

## Workshops

### Evaluating Optic Nerve Head Elevation

**Robert A. Avery, DO; Carmelina Trimboli-Heidler; Stacy L. Pineles, MD; Gena Heidary, MD, PhD**

### Innovative Techniques Enhancing the Treatment of Complex Strabismus

**Linda R. Dagi, MD; Federico G. Velez, MD; Sean P. Donahue, MD, PhD; Matthew S. Pihlblad, MD**

### Challenges in Pediatric Uveitis: Update on Systemic Management of Pediatric Non-infectious Uveitis (NIU) and Family Perspective

**Virginia A. Miraldi Utz, MD; Melissa A. Lerman, MD, PhD; Erin D. Stahl, MD; Stefanie L. Davidson, MD; Iris S. Kassem, MD, PhD; Jennifer L. Jung, MD; Alex V. Levin, MD, MHSc, FAAP, FAAO, FRCSC; Charlie, Catherine & Sarah Dehne**

### ROP: A Team Approach

**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**

## Workshops

### AAPOS Genetic Eye Disease Committee Workshop – Hiding in Plain Sight: Genetic Disorders in Routine Pediatric Practice

**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, FRCPht; 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**

### What's New and Important in Pediatric Ophthalmology and Strabismus

**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**

### Pediatric Eye Trauma Primer for the On-Call Ophthalmologist

**Ankoor S. Shah, MD, PhD; Natalie C. Weil, MD; Kara M. Cavouto, MD; Casey J. Beal, MD**

### 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**
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 PM – 7:00 PM</td>
<td>Pediatric Myopia: A Growing Epidemic Nevakar Corporate Sponsored Symposium</td>
<td>Michael X. Repka, MD, MBA (Chair); K. David Epley, MD; Richard Abbott, MD</td>
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<tr>
<td>8:00 PM – 9:00 PM</td>
<td>CEF of AAPOS Celebration</td>
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<tr>
<td><strong>SATURDAY, APRIL 10, 2021</strong></td>
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<tr>
<td>8:00 AM – 10:00 AM</td>
<td>Poster Viewing (Authors not present) CME eligible</td>
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<tr>
<td>10:00 AM – 10:07 AM</td>
<td>A Randomized Trial Evaluating Effectiveness of Overminus Spectacles in Children 3 to 10 Years of Age with Intermittent Exotropia</td>
<td>Angela M. Chen, OD, MS</td>
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<tr>
<td>10:07 AM – 10:14 AM</td>
<td>Early vs. Late Surgery for Intermittent Exotropia: A Prospective Observational Study</td>
<td>Ahmed Awadein</td>
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<td>10:14 AM – 10:18 AM</td>
<td>DISCUSSION OF PREVIOUS PAPER</td>
<td>Jonathan M. Holmes, MD</td>
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<tr>
<td>10:18 AM – 10:25 AM</td>
<td>Evaluation of Fenestration Technique of the Medial Rectus Muscle in Pediatric Partially Accommodative Esotropia</td>
<td>Amr ElKamshousy</td>
</tr>
<tr>
<td>10:25 AM – 10:32 AM</td>
<td>A Novel Suture: Adjustable Superior Oblique Spacer with Optional 7 Days Delayed Adjustment</td>
<td>Jon Peiter Saunte</td>
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<td>10:39 AM – 10:43 AM</td>
<td>DISCUSSION OF PREVIOUS PAPER</td>
<td>Douglas R. Fredrick, MD</td>
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<td>10:43 AM – 10:50 AM</td>
<td>OPTIC-X Study: Teprotumumab Use as Retreatment and in Longer Duration Thyroid Eye Disease (TED)</td>
<td>Raymond S. Douglas, MD, PhD</td>
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<td>10:50 AM – 10:54 AM</td>
<td>DISCUSSION OF PREVIOUS PAPER</td>
<td>David B. Granet, MD</td>
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<td>11:01 AM – 11:05 AM</td>
<td>DISCUSSION OF PREVIOUS PAPER</td>
<td>Gregg T. Lueder, MD</td>
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<tr>
<td>11:05 AM – 11:12 AM</td>
<td>Patient and Provider Experience During Real-Time Pediatric Ophthalmology Telemedicine Consultations</td>
<td>Sudha Nallasamy, MD</td>
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<tr>
<td>11:12 AM – 11:30 AM</td>
<td>PANEL DISCUSSION</td>
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<tr>
<td>11:30 AM – 12:30 PM</td>
<td>Interactive Poster Session – Author Presentation and Q/A – CME eligible</td>
<td>2nd Set of Posters (B1 – B75) – Authors Present in individual chat rooms</td>
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<tr>
<td>12:30 PM – 12:37 PM</td>
<td>The Relationship Between Reversal of Optic Nerve Head Cupping and Morphometric Changes as Measured by Intra-Operative Mounted Optical Coherence Tomography in Childhood Glaucoma</td>
<td>Tanya Glaser, MD</td>
</tr>
<tr>
<td>12:37 PM – 12:44 PM</td>
<td>Anterior Segment Optical Coherence Tomography (AS-OCT) Findings in the Infant Aphakia Treatment Study (IATS)</td>
<td>Allen D. Beck, MD</td>
</tr>
<tr>
<td>12:44 PM – 12:51 PM</td>
<td>One-Year Results of Circumferential Trabeculotomy in Pediatric Glaucoma following Cataract Surgery</td>
<td>Yasmine El Sayed</td>
</tr>
<tr>
<td>12:51 PM – 12:58 PM</td>
<td>Dual Blade Ab-interno Trabeculectomy versus Goniotomy in Primary Congenital Glaucoma</td>
<td>Hala M. Elhilali, MD, PhD</td>
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</table>
REFRACTION – GENETICS

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

1:05 PM – 1:09 PM  DISCUSSION OF PREVIOUS PAPER
Deborah K. VanderVeen, MD

Margaret Reynolds

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

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

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

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;

Pediatric Ophthalmology at the Cutting Edge: 2021
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

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  IPOS C Workshop: Nightmares in Strabismus
Faruk H. Orge, MD; Jonathan M. Holmes, MD; Sonal Farzavandi, MD; Jan Tjeerd De Faber, MD; Tamara Wygnanski-Jaffe, MD; Derek T. Sprunger, MD; Eedy Mezer, MD

Best Practice Patterns: How to Effectively Use OCT in Pediatric Ophthalmology
Leah G. Reznick, MD; Pete Campbell, MD; Beth Edmunds, MD; Annie Kuo, MD; Lorri B. Wilson, MD

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

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; Steven E. Rubin, 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  
TEPEZZA® (teprotumumab-trbw): A Breakthrough Medicine for the Treatment of Thyroid Eye Disease (TED)  
Horizon Therapeutics Corporate Sponsored Symposium  
Raymond S. Douglas, MD, PhD

SUNDAY, APRIL 11, 2021

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

10:00 AM – 10:20 AM  
Revaluation of Strabismus Surgery Payments  
Michael X. Repka, MD, MBA; David B. Glasser, MD

RETNOPATHY OF PREMATURENESS

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, 3rd Edition (ICROP3)  
Michael F. Chiang, MD

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

10:45 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 Intravital 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, AB

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  
3rd Set of Posters (C1 – C78) – 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

2:00 PM – 2:04 PM  
JAAPOS Update  
William V. Good, MD

2:04 PM – 2:08 PM  
Surgical Scope Fund Update  
Kenneth P. Cheng, MD

2:08 PM – 2:12 PM  
AAP Update  
Steven E. Rubin, MD

2:12 PM – 2:16 PM  
IPOSC Update  
Faruk H. Orge, MD

2:16 PM – 2:20 PM  
ABO Update on Continuous Certification  
Julia L. Stevens, MD

2:20 PM – 2:24 PM  
National Eye Institute Update  
Michael F. Chiang, MD

2:30 PM – 4:00 PM  
Difficult Problems Strabismus Workshop
4:10 PM – 4:45 PM  AAPOS Business Meeting

ON DEMAND WORKSHOPS

K. David Epley, MD; Gary Lelli, MD; Shira Robbins, MD; Eric Packwood, MD

1 Hour  OMIC Workshop: Idiopathic Intracranial Hypertension Claims
Christie L. Morse, MD; Robert Wiggins, MD; Linda Harrison, PhD

1.5 Hours  Documentation and Coding Updates for the Pediatric Practice in 2021
Sue J. Vicchrilli, 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

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 Alfreih, 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  Fixational Eye Movements and Visual Functions in Amblyopia
Fatema Ghasia, MD

A5  Implementation of a Novel, Web-Based Platform for Tracking Amblyopia Patients: Our Experiences
Tinh Le

A6  Vision Screening Practices of Pediatric Primary Care Providers in New Haven County, Connecticut
Anuoluwapo E. Sopyein, 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
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<tr>
<td>A15</td>
<td>Anterior Segment Ischemia after Laser for Retinopathy of Prematurity Previsouly Treated with Anti-Vascular Endothelial Growth Factor</td>
<td>Clara Castilejo Becerra</td>
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<tr>
<td>A16</td>
<td>Combined Scheimpflug and Optical Coherence Tomography Imaging in Screening of Keratoconus in Down Syndrome Children</td>
<td>Kareem Elessawy</td>
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<tr>
<td>A17</td>
<td>Clinical Features of Posterior Polymorphous Corneal Dystrophy in Children</td>
<td>Abdelrahman M. Elhusseiny, MD</td>
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<tr>
<td>A18</td>
<td>Efficacy of Systemic Immunomodulatory Therapy in Pediatric Anterior Uveitis</td>
<td>Elisah M. Huynh, BS</td>
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<tr>
<td>A19</td>
<td>Correlation of Central Corneal Thickness and Systemic Factors in Premature Infants with and without Retinopathy of Prematurity</td>
<td>Yasmin Islam, MD</td>
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<tr>
<td>A20</td>
<td>Pediatric Corneal Collagen Crosslinking Clinical Outcomes at a Single Children's Hospital</td>
<td>William J. Johnson</td>
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<tr>
<td>A21</td>
<td>Population-Based Incidence and Clinical Features of Pediatric Anterior Segment Disorders</td>
<td>Eric J. Kim</td>
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<tr>
<td>A22</td>
<td>Ophthalmic Involvement in Pediatric Eczema Herpeticum</td>
<td>Elana Meer, BA</td>
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<tr>
<td>A23</td>
<td>Indications and Long-Term Outcomes of Pediatric Penetrating Keratoplasty in a Hispanic Population</td>
<td>Nallely R. Morales-Mancillas, MD</td>
</tr>
<tr>
<td>A24</td>
<td>Timing of Systemic Immunosuppressive Initiation and its Impact on Complications of Pediatric Noninfectious Anterior Uveitis using Claims Data</td>
<td>Solin Saleh, MD</td>
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<td>A25</td>
<td>Treatment of Infantile Conjunctival Hemangiomas with Topical Timolol</td>
<td>Jamie Weiser, OD</td>
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<tr>
<td>A26</td>
<td>Ultrasound Biomicroscopy to Detect Iris Structural Changes following Pediatric Cataract Surgery</td>
<td>Jana Bregman, MD</td>
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<td>A27</td>
<td>Systemic Evaluation of Children with Cataract</td>
<td>Joyce J. Chan, FRCOphth</td>
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<tr>
<td>A28</td>
<td>Serum Cortisol and Adrenocorticotropic Hormone (ACTH) in Infants Receiving Topical Ocular Corticosteroids Following Cataract Surgery</td>
<td>Dina El-Fayoumi</td>
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<tr>
<td>A29</td>
<td>Accuracy of A Universal Theoretical Formula for Lens Power Calculation in Pediatric Intraocular Lens Implantation</td>
<td>Sarah E. Eppley</td>
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<tr>
<td>A30</td>
<td>Incidence of Retinal Detachment following Lens Surgery in Children and Young Adults with Non-Traumatic Ectopia Lentis</td>
<td>Hwan Heo</td>
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<tr>
<td>A31</td>
<td>Assessment of Macular Edema After Pediatric Cataract And Intraocular Lens Implantation Surgery Using Handheld Spectral Domain Optical Coherence Tomography</td>
<td>Heldz Khalil</td>
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<tr>
<td>A32</td>
<td>Pediatric Cataract Surgery following Treatment for Retinoblastoma</td>
<td>Stephanie N. Kletke, MD, FRCSC</td>
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<tr>
<td>A33</td>
<td>Refractive Growth of the Crystalline Lens</td>
<td>Scott R. Lambert, MD</td>
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<tr>
<td>A34</td>
<td>Ultrasound Biomicroscopy Characterization of Pediatric Cataract Morphology and Posterior Capsular Abnormalities</td>
<td>Andrew R. Lee, MD</td>
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<tr>
<td>A35</td>
<td>Aqueous Humor Proteomics of Subjects Undergoing Cataract Surgery</td>
<td>Jacob S. Martin</td>
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<tr>
<td>A36</td>
<td>Incidence of Early Retinal Detachment after Pediatric Cataract Surgery using Optum® Dataset</td>
<td>Angeline Nguyen, MD</td>
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<tr>
<td>A37</td>
<td>Systemic Diagnoses in Pediatric Patients undergoing Cataract Surgery</td>
<td>Bharti Nihalani-Gangwani, MD</td>
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<tr>
<td>A38</td>
<td>Management of Cataracts in Pediatric Patients with Developmental Delay</td>
<td>Sugi Panneerselvam, BA</td>
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Fixation Instability during Binocular Viewing in Children following Dense Unilateral Cataract Extraction
Prem N. Patel, BSA

Characteristics and Outcomes of Cataract surgery in Children with a Cataract at Uveitis Presentation
Veronique Promelle

Results of Genetic, Infectious, and Metabolic Testing in the Work-Up of Bilateral Pediatric Cataracts at a Tertiary Pediatric Hospital
Michael A. Puente

Preoperative Central Corneal Thickness in Eyes with Pediatric Cataract versus Normal Fellow Eyes
Katherine S. Wood, MD

**GENETIC DISORDERS**

Ocular Manifestations in Turner Syndrome
Rebecca Mets Halgrimson, MD

Stargardt Misdiagnosis: How Ocular Genetics Helps
Manuel Benjamin B. Ibanez, IV

Ocular Phenotype of Genetically Confirmed Kabuki Patients
Mireille N. Jabroun, MD

Ophthalmic Features in Hereditary Sensory Neuropathy Type 1A: A Case Report and Systematic Review
Virang Kumar

A Syndrome of Hearing Loss and FEVR in a Girl with Biallelic FZD4 Mutations
Benjamin S. Meyers

Interpretation of Electoretinograms in Children- Know your Equipment
Wanda L. Pfeifer, OCC, COMT

Phenotypic and Genetic Differences of Autosomal Recessive Bestrophinopathy and Best Vitelliform Macular Dystrophy
Tyler Pfister

The Demographics, Clinical and Molecular Features of Pediatric Patients with Retinitis Pigmentosa due to Variants in the EYS Gene
Karishma Popli

Hereditary Motor and Sensory Neuropathy Type VIA with Optic Atrophy in Two Sisters with Pathologic Myopia: A Case Series and Review
Kimberly M. Seamon

A Retrospective Analysis of the Multi-Disciplinary Approach to Ocular Genetics: First Year Clinical Results
Jackson Townsend

**GLAUCOMA**

Structural Changes of the Anterior Segment Measured by Ultrasound Biomicroscopy Following Pediatric Glaucoma Surgery
Hampton Addis

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

Fusional Amplitudes in Glaucoma Patients with Variable Visual Field Loss Compared to Controls
Apostolos G. Anagnostopoulos, MD

Childhood Glaucoma in Down Syndrome
Raymond G. Areaux, Jr, MD

Examining the Association of Prostaglandin Analogs with Uveitis in Pediatric Patients with Glaucoma
Nicholas R. Bello, BS

Subconjunctival versus Combined Subconjunctival and Subscleral Flap Mitomycin C in Pediatric Trabeculectomy: A Randomized Clinical Study
Ahmed Elansary

Outcomes and Associations in Children with Sturge-Weber Syndrome and Glaucoma
Harald Gjerde, MD

Evaluation of Macular Abnormalities in Childhood Glaucoma by Mounted Optical Coherence Tomography
Michelle S. Go, MD

Pediatric Glaucoma Suspects: Characteristics and Outcomes
Monte D. Mills, MD

Falsely High Rebound Tonometry
Jade M. Price, MD

Quantitative Assessment of the Ciliary Body following Transcleral Cyclophotocoagulation using 3D
Ahmed Elansary
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
James L. Mims III, MD
A73 Medium-Term Observation of Children with Untreated Intermittent Exotropia
Brian G. Mohney, 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 Surgical Outcomes of Medial Rectus Plication for Management of Basic Type Intermittent Exotropia
Heba Fouad, MD, PhD, FRCSophth
B3 Weakening Effectiveness of Y Splitting Recession in Lateral Rectus
Birsen Gokyigit, MD
B4 Unilateral Horizontal Muscle Recessions for Pediatric Comitant Strabismus
Kimberly S. Merrill
B5 Routine Use of Non-absorbable Sutures in Bi-medial Rectus Recession as a Measure to Reduce the Incidence of Consecutive Exotropia
Yair Morad
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, MD
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
Prevalence of Cerebral Visual Impairment (CVI) Education During Ophthalmology and Optometry Training Programs
Katherine Castleberry

Cerebral Visual Impairment (CVI) Education and Practice Reported by Practicing Ophthalmologists and Optometrists
Monica Sandoval

Telemedicine-Based Approach in Children with Cerebral Visual Impairment (CVI)
Terry L. Schwartz, MD

**NEURO-OPHTHALMOLOGY**

Etiology and Outcomes of Pediatric Sixth Nerve Palsies With and Without Underlying Neurologic Disease
Mark Borchert, MD

Idiopathic Intracranial Hypertension (IIH) in Children: Clinical Features and Long-Term Outcomes
Hannah H. Chiu

Pseudotumor Cerebri Syndrome from Secondary Causes
Michelle M. Falcone, MD

Incidence and Prognostic Role of the Ocular Manifestations of Neuroblastoma in Children
Sybille Graef

Ophthalmic Complications of Spina Bifida: A 10-Year Review of the Irish Experience
Treasa Murphy

Three Cases of Ocular Neuromyotonia Associated with Proton Beam Therapy
Cody Richardson

Birth Parameters that Predict Retinal Nerve Fiber Layer Thickness at 36 Weeks Postmenstrual Age in Preterm Infants
Liangbo L. Shen, BS

Pediatric Optic Disc Drusen: A Retrospective Study of 63 Children
Barrett N. Thompson, MD

Utility of a Virtual Clinic for Suspected Papilledema
Jack West, MBBS

**OCULAR INFECTION**

Toxic Epidermal Necrolysis Triggered by COVID-19
Andrea Jara, MD

Optimal Dosing of Trimethoprim Sulfamethoxazole in Outpatient Treatment of Pre-Septal Orbital Cellulitis
Alan B. Richards, MD

**OCULAR SENSORY**

The Baltimore Pediatric Ocular Trauma Study: Sensorimotor Outcomes Following Pediatric Open Globe Injuries
Sue Junn, BS

Visual Acuity and Stereoeacuity Improvement in Children With and Without Fusion Maldevelopment Nystagmus Syndrome
Matteo Scaramuzzi

**OCULOPLASTICS**

Telemmedicine in the Diagnosis and Management of Pediatric Blepharoptosis
Natasha N. Loudin

Efficacy and Cost Comparison of Congenital Dacryocystocele Treatment Options
W. Walker Motley, III, MS, MD

Primary Moncanalicular Stent Intubation for the Treatment of Congenital Nasolacrimal Duct Obstruction in Children with Down Syndrome
Daphna Prat

Association between Mitochondrial Myopathy and Isolated Congenital Ptosis
Varsha S. Sathappan

Strabismus Associated with Craniosynostosis and Related Craniofacial Surgery
Jessica N. Thayer
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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 Moushmoonsh

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, BS

B47 Trends in Pediatric Ocular Trauma Presenting to an Ophthalmology-Specific Emergency Department During the COVID-19 Pandemic
Kara M. Cuvuoto, MD

B48 Strabismus Surgery Decreases the Risk of Injuries among Pediatric Patients in the OptumLabs Data Warehouse
Anne Coleman

B49 A Randomized Clinical Trial Evaluating Learning Impacts of Provision of Eyeglasses through a School-Based Vision Program
Megan E. Collins

B50 Opioid Prescribing Patterns of Pediatric Ophthalmologists and Strabismologists in the Medicare Part D Database
Stephen C. Dryden, MD

B51 The Development of an Institutional Protocol Based on National Guidelines Can Help Effectively Utilize Ophthalmic Consults in Suspected Child Abuse
Austin Ellyson, DO

B52 Impact of COVID-19 on Mental Health in Eye Care Professionals, Staff and Students
Samiksha Fouzdar Jain

B53 Visual Acuity and Refractive Findings in Children Prescribed Glasses from a School-Based Vision Program
Xinxing Guo, MD, PhD
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### RETINA

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<td>Bilal Shaukat, MD</td>
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### RETINOBLASTOMA

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<th>B75</th>
<th>Primary Laser Therapy as Monotherapy for Discrete Retinoblastoma</th>
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<td>Sameh E. Soliman</td>
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**Third Set of Posters – Poster Session C**
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

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

Ema Avdagic, MD

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

Ellis J. Bloom, BS

Influence of Mosaic Fundus and Fluorescein Angiography Photographs on Treatment Requiring Retinopathy of Prematurity Diagnosis

Basak Can, MD

Risk of Corneal Epithelial Defects with and without Post-Operative Erythromycin Ointment after Laser Photocoagulation for Retinopathy of Prematurity (ROP)

Apoorv P. Chebolu, MD

Investigating Association Between Sardh Gene RS582326 Polymorphism and Retinopathy of Prematurity (ROP) in Malaysian Infants

May M. Choo, FRCS

Detectability of Synthetic Retinopathy of Prematurity Retinal Fundus Images

Aaron S. Coyner

Validation of the WINROP Algorithm for Predicting Retinopathy of Prematurity Requiring Treatment in a Large Canadian Cohort

Stephanie Dotchin

Daily Oxygen Supplementation and Risk of Retinopathy of Prematurity

Marcela M. Estrada, MD

Prevalence of Peripheral Avascular Retina in Spontaneously Regressed Retinopathy of Prematurity

Adam M. Hanif, MD

Management of Stage 3-and-a-Half Retinopathy of Prematurity

Youssef A. Helmy, MD

Blindness Secondary to Retinopathy of Prematurity in Sub-Saharan Africa

Scott K. Herrod

Reducing Neonatal Pain Scores During Retinopathy of Prematurity (ROP) Screening Exams

Vivian Hill

Comparison of the G-ROP Versus WINROP Algorithm in Predicting Retinopathy of Prematurity

Paul Huang, MD

A Comparison of Primary Laser versus Delayed Laser after Bevacizumab for Type 1 Retinopathy of Prematurity (ROP)

Juliann E. Lajoie, MD

Retinopathy of Prematurity and Telemedicine in Developing Countries

Viviane Lanzelotte, MD

Machine Learning and Logistic Mixed Model Approach to Create Handheld Optical Coherence Tomography Models Predicting Referral-Warranted Retinopathy of Prematurity

Alex T. Legocki, MD

Characteristics of Spontaneous Regression of Mild and Moderate Retinopathy of Prematurity (ROP)

Ryan M. Leverant

Do All Children Screened for Retinopathy of Prematurity Require Follow-up Ophthalmic Examinations after Discharge?

Shahriyar Majidi

Preterm Infant Stress during Handheld Optical Coherence Tomography versus Binocular Indirect Ophtalmoscopy Examination for Retinopathy of Prematurity

Shwetha Mangalesh, MD

A Comparison of ROP in Preterm Infants over 1000 grams: Shreveport, LA and Kyiv, Ukraine

Cynthia Noguera, MD

Validation of a Retinopathy of Prematurity Activity Scale

Alomi O. Parikh, MD

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
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

Effects of Altitude on Retinopathy of Prematurity
Rachel E. Reem, MD

Late Visual Outcomes in Infants Treated with Primary Bevacizumab for Type 1 Retinopathy of Prematurity
Sarah H. Rodriguez, MD, MPH

Effects of Timing and Type of Enteral Feedings on Risk of Retinopathy of Prematurity
Yvette L. Schein, BA

Vitreous Opacities in Full-Term and Preterm Infants by Handheld Swept Source Optical Coherence Tomography
Nicholas M. Scoville

Semi-Automated Vessel Analysis of En Face Vessel Maps of the Posterior Pole Generated from Bedside Optical Coherence Tomography
Kai R. Seely, BS

A Smartphone Application to Measure Neurodevelopmental Outcomes among Infants with Retinopathy of Prematurity
Zhuangjun Si, MD

Birth Weights Are a Stronger Predictor of ROP Progression to Plus Disease than Gestational Age in Community Hospital Screenings
Brent A. Siegel

Associations of Cardiovascular Disease with Retinopathy of Prematurity
Alyssa Spiller, BS

Association of Surgical Necrotizing Enterocolitis with Retinopathy of Prematurity
Lauren A. Tomlinson, BS

Racial Differences in Retinopathy of Prematurity
Jingyun Wang

STRABISMUS

Strabismus Rehabilitation – Where Surgery and Orthoptic Treatment are Side by Side
Victoria O. Balasanyan, MD, PhD

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

Long-Term Ophthalmic Outcomes in 120 Children with Unilateral Coronal Synostosis: A Retrospective Look Over 20 Years
Linda R. Dagi, MD

Binocular Vision Abnormalities in Parkinson's Disease
Palak Gupta

Impact of Diplopic versus Non-Diplopic Strabismus on Quality of Life in Adolescent Children, Assessed using the PedEyeQ
Sarah R. Hatt

Effectiveness of Single Botulinum Toxin Injection for Strabismus in Children with and without Neurological Disorders
Jing Jin, MD, PhD

Effect of Lane Length on Strabismus Measurements
Michael Langue

Appearance of Strabismus in Implicit Association Tests
Justin D. Marsh, MD

Strabismus in Pediatric Cataract Surgery
Laruen C. Mehner, MD

STRABISMUS SURGERY

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

Old Strabismus Surgery is not a Sight for Sore Eyes: New Approaches are Necessary
Igor Aznauryan, MD, PhD

Surgical Dose-Response in Paretic Strabismus
Kaila Bishop
Accuracy of Surgical Memory in Patients with Prior Strabismus Surgery
Jennifer Bu

Population-based Prevalence of Infectious Complications Following Strabismus Surgery
Arthika Chandramohan, MD, MPH

Suture Plication in the Treatment of Complicated Paralytic Strabismus
Patrick J. Droste, MS, MD

Overcorrection After Vertical Muscle Transposition with Augmentation Sutures in Sixth Nerve Palsy
Dina H. Hassanein

Current Practice Patterns of Vasoconstrictor Use Among Strabismus Surgeons
David Nash

Post-Operative Outcomes in Pediatric Patients with Strabismic Amblyopia Unresponsive to Therapy
Casey G. Smith

Anatomical Features of Extraocular Muscles in Patients with Strabismus Who Underwent Surgical Treatment
Adriana Soiano

The Efficacy of Unilateral Lateral Rectus Recession for Moderate-angle Exotropia in Young Children
Oriel Spierer

Dorsal Midbrain Syndrome: Outcomes after Strabismus Surgery
Marguerite C. Weinert

Vertebral Strabismus

Range of Forced Cyclorotation in Superior Oblique Palsy and V-Pattern Strabismus
Seung Ah Chung, MD

Quantitative Intraoperative Torsional Forced Duction Test in a Pediatric Population
Andrew Jilwan, MD

Outcomes of Botulinum Toxin Injection of the Inferior Oblique Muscles
Isdin Oke, MD

Cerebral Correlates of Facial Asymmetry Associated with Superior Oblique-Related Ocular Torticollis
Sachin Patel

The Use of OCT in the Assessment of Ocular Torsion
Gill Roper-Hall, DBOT, CO

Vertebral Strabismus Surgery

Different Surgical Modalities for Varying Presentations of Superior Oblique Palsy
Ghada H. Allam, MD

Unilateral Graded Marginal Myotomy for Minimally Overacting Inferior Oblique Muscle
Rahul Bhola, MD, MBA

Treatment of Persistent Strabismus Following Anterior Transposition of the Inferior Oblique Muscles
Marlo Galli

Effect of Anterior and Nasal Transposition of the Inferior Oblique Muscle
Tobias Torp-Pedersen

Vision Assessment

Trichromatic Enhanced Dynamic Color Screening with a Handheld Gaming Device
Andrew W. Arnold

A New Visual Acuity Test for Use in Children age 4-17
Guy Barnett-Itzhaki, CO

Comparison of a Virtual-Reality Headset-Based Perimetry Device to Standard Humphrey Visual Field in Normal Children
Edward F. Linton, MD

Visual Acuity Testing Methods in Children
Lana D. Verkuil, MD

Vision Screening

Pupil-Size and Refractive Normative Data in Israeli Children
Daniel Bahir, BSc

Detection of Treatment-Requiring Hyperopia using a Photo Vision Screening Device in a Preschool Population
Kellyn N. Bellsmith
Quickly Closing the Loop for Failed Vision Screening Referrals - A Multi-Disciplinary Rapid Access Vision Screening Pilot Clinic
Laura K. Chalkley, CO

Drive-thru Children Eye Screening using a Vision Screening Device in Response to Covid 19 in Indonesia
Kianti R. Darusman, MD

A Retrospective Cohort Study of Failed Vision Screening Visits for Refractive Error Presenting to Pediatric Eye Providers
Alexander H. de Castro-Abeger, MD, MBA

Comparison of Two Photo-Screeners in a Population of Syrian Refugee Children
John P. Gorham, MD

Outcomes of Pediatric Photoscreening for Children with Diabetes Mellitus
Alison Teo, MD, MEng

Utilization and Barriers of Eye Care Services following Pediatric Vision Screening within Public Schools
Patrick Wang, BHSc

Age Does Not Influence the Positive Predictive Value of Vision Screening to Detect Amblyopia Risk Factors
Raymond Zhou, BS

Detection of Strabismus with a Vision Screening Device in a Statewide Vision Screening Program
Abigail Petrunak, BS