# American Association for Pediatric Ophthalmology and Strabismus

### WEDNESDAY, MARCH 25, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 – 4:00</td>
<td>Finance Committee, Board of Directors and IPOSC Meetings</td>
</tr>
<tr>
<td>12:00 – 8:00</td>
<td>Registration</td>
</tr>
<tr>
<td>1:00 – 4:00</td>
<td>Poster Set Up</td>
</tr>
<tr>
<td>4:00 – 6:00</td>
<td>Poster Viewing (1st Set) (Authors not present – CME credit not awarded)</td>
</tr>
<tr>
<td>6:15 – 7:00</td>
<td>International Attendees Reception</td>
</tr>
<tr>
<td>7:00 – 9:00</td>
<td>Opening Reception</td>
</tr>
</tbody>
</table>

### THURSDAY, MARCH 26, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 – 5:00</td>
<td>Registration</td>
</tr>
<tr>
<td>6:30 – 7:45</td>
<td>Poster Viewing (Authors not present) – Breakfast</td>
</tr>
<tr>
<td>7:45 – 7:50</td>
<td>Introduction and Welcome</td>
</tr>
<tr>
<td>7:50 – 8:00</td>
<td>President’s Remarks, Honor Awards, Senior Honor Awards, Lifetime Achievement Awards, Champion for Vision Award</td>
</tr>
<tr>
<td>8:00 – 8:01</td>
<td>Introduction of David W. Parke, II, MD</td>
</tr>
<tr>
<td>8:01 – 8:15</td>
<td>AAPOS Address</td>
</tr>
<tr>
<td>8:15 – 8:20</td>
<td>Introduction of Costenbader Lecturer</td>
</tr>
<tr>
<td>8:20 – 8:45</td>
<td>Costenbader Lecture</td>
</tr>
<tr>
<td>8:45 – 9:48</td>
<td>Presentation Ceremony</td>
</tr>
</tbody>
</table>

### GLAUCOMA – OPTIC NERVE - TUMORS

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:50 – 8:57</td>
<td>The Macula in Pediatric Glaucoma: Quantifying the Inner and Outer Layer Via Optical Coherence Tomography Segmentation</td>
</tr>
<tr>
<td>8:57 – 9:04</td>
<td>Retinal Changes in Pediatric Glaucomatous and Non-Glaucomatous Optic Atrophy</td>
</tr>
<tr>
<td>9:04 – 9:11</td>
<td>Intraocular Medulloepithelioma: New Observations on Clinical Features, Pathology and Genetics</td>
</tr>
</tbody>
</table>

### EXTRAOCULAR MUSCLES

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:11 – 9:18</td>
<td>Extraocular Muscles and Stem Cells</td>
</tr>
<tr>
<td>9:18 – 9:25</td>
<td>Anterior Segment Optical Coherence Tomography of the Horizontal and Vertical Extraocular Muscles with Measurement of the Insertion to Limbus Distance</td>
</tr>
</tbody>
</table>

### STRABISMUS SURGERY

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:32 – 9:39</td>
<td>Improvements in Binocular Summation after Strabismus Surgery</td>
</tr>
</tbody>
</table>
  Erik Aznauryan

9:47 – 10:00  PANEL DISCUSSION

10:00 – 11:00  Interactive Poster Session – Author Presentation and Q/A (1st Set)
  1st Set of Posters (1 – 28) – Authors Present – CME eligible
  (Odd Numbered Posters 10:00 – 10:35; Even Numbered Posters 10:25 – 11:00)

11:05 – 11:20  Presentation of Parks Medals, Silver Medals and Children’s Eye Foundation Update
  George R. Beauchamp, MD

RETINOPATHY OF PREMATURITY

11:20 – 11:27  Postnatal Serum Insulin-Like Growth Factor I and Retinopathy of Prematurity
  Anne K. Jensen, MD

11:27 – 11:31  DISCUSSION OF PREVIOUS PAPER
  David Morrison, MD

11:31 – 11:38  Validation of WINROP for Detecting High-Grade Retinopathy of Prematurity in Colorado Preterm Infants
  Jennifer L. Jung, MD

11:38 – 11:45  Colorado ROP Screening Model: A Multi-Institutional Validation Study
  Jennifer H. Cao, MD

11:45 – 11:51  DISCUSSION OF TWO PREVIOUS PAPERS
  Gil Binenbaum

11:51 – 11:58  Evaluation of Real-Time Video Feed from the Digital Indirect Ophthalmoscope (Keeler) for Telehealth Consultations
  Tiffany C. Ho

  Amanda Way, MD

PUBLIC HEALTH

12:05 – 12:12  Ocular Complications in Children with Diabetes Mellitus
  Megan M. Geloneck, MD

12:12 – 12:16  DISCUSSION OF PREVIOUS PAPER
  Gregg T. Lueder, MD

HORIZONTAL STRABISMUS

12:16 – 12:23  Over-Minus Spectacle Correction in the Management of Intermittent Exotropia
  Shivani Sethi, MD

12:23 – 12:30  Comparison of Botulinum Toxin Versus Surgery in the Treatment of Acute-Onset, Comitant Esotropia in Children
  Michael J. Wan, MD

12:30 – 12:37  Intraoperative Botulinum Toxin in Large Angle Strabismus
  Saurabh Jain, FRCophth

12:37 – 12:43  DISCUSSION OF TWO PREVIOUS PAPERS
  Stephen P. Christiansen, MD

12:43 – 1:00  PANEL DISCUSSION

1:10 – 2:30  AAPOS Business Meeting (Lunch Available for a Fee with Pre-Registration)

2:45 – 4:00  OMIC Risk Management Workshop: The Risks and Benefits of Malpractice Litigation (No Additional Fee)
  Paul Weber, JD; Denise R. Chamblee, MD; Elyssa P. Rosenthal, MD; James R. Broening, JD

3:00 – 4:00  Interactive Poster Session – Review and Commentary from the Program Committee (1st Set)
  CME eligible

4:00 – 6:00  Exhibitor Cocktail Reception

FRIDAY, MARCH 27, 2015

6:30 – 5:30  Registration
6:30 – 8:00  Poster Viewing (1st Set) (Authors not present) - Breakfast
WORKSHOPS

7:00 – 8:15
Telemedicine for the Detection of Serious Acute Phase ROP: Time for a Paradigm Shift?
Graham E. Quinn, MD, MSCE; Peter L. Hildebrand, MD; Karen A. Karp, BSN; Ebenezer Daniel, MBBS, MS, MPH, PhD; Kely Wade, MD, PhD; Alex R. Kemper, MD, MPH, MS; Daniel T. Weaver, MD

AOC/AACO Workshop: Sensory Evaluation and Surgical Success. Is the Worth 4-dot Test Really Worthless?
Lisa P. Rovick, CO; Natalie Kerr, MD; Anna I. Schweigert, CO; Raymond Areaux, MD; Aaron M. Miller, MD; Jorie Jackson, CO; Cindy H. Pritchard, CO; George Ellis, MD; Erika Acera, CO; David Granet, MD; David Silbert, MD

The Tools of Data Analysis: Matching the Hammer to the Nail
Kristina Tarcy-Hornoch; Gil Binenbaum; Mays A. El-Dairi; Joost Felius; Jing Jin; Iris S. Kassem; Sudha Nallasamy; Stacy L. Pineles; Jingyun Wang

Tamara Wygnanski-Jaffe, MD; Alex V. Levin, MD; Sharon F. Freedman, MD; Joseph L. Demer, MD; Itay Ben-Zion, MD; Gregg T. Lueder, MD

WORKSHOPS

8:30 – 9:45
What Pediatric Ophthalmologists Need to Know about Clinical Quality Measurement, Registries, PQRS, and Measure Development
Michael F. Chiang; Michael X. Repka, MD; Christie Morse; Robert Wiggins; Kristina Tarczy-Hornoch

Dyslexia: What Pediatric Ophthalmologists and Families Need to Know
Sheryl M. Handler, MD; Walter M. Fierson, MD; A. Melinda Rainey, MD; William O. Young, MD

The Impact of Brain Tumors on Vision and Ocular Motility
Gena Heidary, MD, PhD; Robert Avery, DO; Stacy Pineles, MD; Jane Edmond, MD

Secrets to Solve Pediatric Ophthalmology Case Mysteries
Aparna Ramasubramanian; Carol L. Shields; Alex V. Levin; Bruce Schnall; Jerry A. Shields

9:45 – 10:30
Refreshment Break and Exhibit Viewing

WORKSHOPS

10:30 – 11:45
Neuro-Ophthalmic Manifestations of Systemic Disease, Part 2
Jane C. Edmond, MD; R. Michael Siatkowski, MD

Kids are NOT a Line of Vision: Pediatric Low Vision
Linda M. Lawrence; A. Melinda Rainey, MD; Amanda Lueck, PhD; Kelly Lusk, PhD; William Daugherty

Apt Lecture Workshop: Science, Pseudoscience, and the Law in AHT
Alex V. Levin, MD, MHSc, FRCSC; Brian J. Forbes; Gil Binenbaum; Steve E. Rubin

Pediatric Ocular Tumors and Pseudotumors. Quick Cases and Clinical Pearls
Jerry A. Shields, MD; Carol L. Shields, MD

11:30 – 12:00
Poster Removal (1st Set)

12:00 – 1:00
Lunch Break – On Your Own – Boxed Lunch Available for a Fee with Pre-Registration

12:00 – 1:00
Special Symposium: Phenotype-genotype Correlations in Pediatric Cataract, Including Conditions you Don’t Want to Miss
Arif O. Khan, MD; Elias I. Traboulsi, MD

Supported by an Unrestricted Educational Grant from Retrophin

12:00 – 1:00
Special Symposium: Meaningful Use of Physician Extenders in the Pediatric Ophthalmology Practice
Jorie Jackson; Kyle Arnoldi; Karl Henson; Traci Fritz; Aaron M. Miller; Richard S. Freeman; Laurie Hahn-Parrott
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 1:15 – 2:30  | RPE65 Related Inherited Degeneration Gene Therapy Trials: Background and Current Status, Need for Genetic Testing, and Future Gene Therapies for Other Retinal Dystrophies  
Daniel C. Chung, DO, MA; Arlene V. Drack, MD |
|              | Does This Child Have Glaucoma or Something Else? Applying Newer Technologies to the Diagnosis and Management of Pediatric Glaucoma  
Sharon F. Freedman, MD; Allen D. Beck, MD; Alex V. Levin, MD |
|              | Adult Strabismus Workshop  
David B. Granet, MD; David L. Guyton, MD; Edward G. Buckley, MD; Steven M. Archer, MD; David Stager, Sr, MD; Forrest J. Ellis, MD; Lionel Kowal, MD; David Hunter, MD |
|              | Global Challenges in the Management of Childhood Cataracts  
Phoebe D. Lenhart; Ana Paula Rodrigues; M. Edward Wilson; Ramesh Kekunnaya; Arif Khan; Lee Woodward; Scott R. Lambert |
| 2:45 – 4:00  | Just Do It…Better: Tips for Efficiency in Clinical Practice  
Rebecca Leenheer, MD; Kara Cauvuto, MD; Janine Collinge, MD; S. Grace Prakalapakorn, MD; Theodore Curtis, MD; Michael Chiang, MD; David Silbert, MD; Kenneth Wright, MD |
|              | Low Vision Rehabilitation Update: New and Innovative 2015  
Terry L. Schwartz, MD; Kelly Lusk, PhD, CLVT; Rebecca Coakley, MA, CLVT |
|              | AAP/APOS Workshop: Difficult Conversations in Pediatric Ophthalmology and Strabismus  
R. Michael Siatkowski, MD; Sharon F. Freedman, MD; David B. Granet, MD; George S. Ellis, MD; Cindy Pritchard, CO, COT; Robert E. Wiggins Jr., MD; Christie L. Morse, MD |
| 3:45 – 4:15  | Poster Set Up (2nd Set)  
4:00 – 4:30 Pre-Symposium Refreshments: Refuel and Refresh  
4:30 – 6:00 Special Symposium  
Taking Care of Our Patients in a Changing Healthcare System  
A Call to Include Social Media and Patient Advocacy Activities in Our Professional Life  
Jean E. Ramsey, MD, MPH; Ken Cheng, MD; Brad Black, MD; Luxme Hariharan, MD; Stacey J. Kruger, MD; Daniel Briceland, MD; Pamela E. Williams, MD; Patrick Hynes |
| 5:30 – 6:30  | Administrators Meet & Greet  
6:30 – 7:30 Young Ophthalmologists’ and New Member Reception  
6:00 – 8:00 Poster Viewing (Authors not present) |

**SATURDAY, MARCH 28, 2015**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 6:30 – 5:00  | Registration  
6:30 – 8:00 Poster viewing (2nd Set) (Authors not present) - Breakfast  
6:30 | 5th Annual AAPOS Run  
7:00 – 8:15 Special Symposium: Use of Digital Photoscreeners to Detect Amblyopia Risk Factors (ARFs), A Multidisciplinary Evidence Based Approach; Care and Cost Implications  
David I. Silbert, MD; Sean P. Donahue, MD, PhD; Alan Greene, MD; Deborah Alcorn, MD; Robert Arnold, MD  
Supported by an Unrestricted Educational Grant from Gobiquity |
| 8:00 – 2:00  | Practice Management Workshop – Administrators Program  
Heather H. Dunn, COA  
8:00 – 5:00 Technician Course – Examination Skills for the Pediatric Patient  
No CME Merrill Stass-Isern, MD; Lisa P. Rovick, CO  
8:30 – 8:35 Introduction of the Apt Lecturer |

### 8:35 – 8:55
- **Apt Lecture**
  - "How the Ground is Shifting in Child Abuse"
  - **Alex V. Levin, MD, MHSc**

### 8:55 – 8:58
- **Presentation Ceremony**
  - **Sharon Lehman, MD**

### VERTICAL STRABISMUS

#### 9:00 – 9:07
- **Partial Muscle Recession for Small-Angle Vertical Strabismus**
  - **Catherine S. Choi, MD**

#### 9:07 – 9:14
- **Brown Syndrome Outcomes: A Forty-Year Retrospective Analysis**
  - **Scott A. Larson, MD**

#### 9:14 – 9:21
- **Quantitative Intraoperative Forced Torsion Traction Test**
  - **Jaeho Jung, MD**

#### 9:21 – 9:28
- **Synergistic Interaction of Inferior Oblique Weakening and Vertical Rectus Recession for Non-Restrictive Vertical Strabismus**
  - **Melanie Kazlas**

#### 9:28 – 9:35
- **The Incidence of Torsional Diplopia Following Inferior Rectus Muscle Recession in Thyroid Eye Disease**
  - **Tara Tae**

#### 9:35 – 9:39
- **DISCUSSION OF PREVIOUS PAPER**
  - **Oscar A. Cruz, MD**

#### 9:39 – 9:55
- **PANEL DISCUSSION**

#### 9:55 – 10:05
- **Interactive Poster Session – Author Presentation and Q/A (2nd Set)**
  - 2nd Set of Posters (29 – 56) – Authors Present – CME eligible
  - (Odd Numbered Posters 9:55 – 10:30; Even Numbered Posters 10:20 – 10:55)

### 11:00 – 11:05
- **American Academy of Pediatrics - Update**
  - **Sharon Lehman, MD**

### CATARACT

#### 11:20 – 11:27
- **Pediatric Cataract Surgery: Baseline Characteristics of a North American Pediatric Eye Disease Registry**
  - **Michael X. Repka, MD**

#### 11:27 – 11:34
- **Genetic Testing for Congenital Cataracts**
  - **Matthew C. Weed, MD**

#### 11:34 – 11:38
- **DISCUSSION OF PREVIOUS PAPER**
  - **Christopher Lloyd**

#### 11:38 – 11:45
- **The Association between Patching Adherence and Visual Acuity at Age 4 ½ Years in the Infant Aphakia Treatment Study**
  - **Carolyn D. Drews-Botsch, PhD, MPH**

### AMBLYOPIA

#### 11:45 – 11:52
- **A Randomized Trial of Amblyz Liquid Crystal Occlusion Glasses vs Traditional Patching for Treatment of Moderate Unilateral Amblyopia in Children**
  - **Daniel E. Neely, MD**

#### 11:52 – 11:59
- **Evolution of Eye-Hand Coordination Deficits in Children with Amblyopia and Abnormal Binocular Function**
  - **John J. Sloper**

#### 11:59 – 12:06
- **Binocular Movie Treatment of Amblyopia Improves Visual Acuity in Children**
  - **Simone L. Li, PhD**

#### 12:06 – 12:13
- **Reading Rate and Scantron Completion Time in Children with Amblyopia**
  - **Eileen E. Birch**
VISION SCREENING

12:13 – 12:20 Detection of Strabismus by the Spot Vision Screener
Mae Millicent W. Peterseim

12:20 – 12:27 Efficacy of a Mobile Smart Phone Vision-Screening Device with Automated Image-Processing Analysis in the Evaluation of Amblyopia Risk Factors in Preschool Children
Robert W. Arnold, MD

12:27 – 12:31 DISCUSSION OF PREVIOUS PAPER
Erick Bothun, MD

12:31 – 12:38 Validation of Photo Screening Technology in the General Pediatrics Office
Jana A. Bregman

12:38 – 1:00 PANEL DISCUSSION

2:00 – 3:15 Fiscal Benchmarking Workshop – Data from FY 2013 – AAPOS Socioeconomic Committee
(Separate Registration – No Additional Fee)
(SEC Practice Managers Program & AAPOS attendees)
Deborah S. Lenahan, MD; Nils Mungan, MD; Eric Lichtenstein, MD; Bob Wiggins, MD; John Bishop, MD; Mike Bartiss, MD, OD

3:15 – 4:15 Interactive Poster Session – Review and Commentary from the Program Committee (2nd Set)
CME eligible

3:30 - 5:30 The Ups, Downs, Ins and Out of Strabismus and Pediatric Ophthalmology Coding
(Separate Registration – Additional Fee)
(SEC Practice Managers Program & AAPOS attendees)
Sue Vicchrilli, COT, OCS

5:00 – 8:00 Poster Viewing (Authors not present)

7:00 – 10:00 Closing Reception

SUNDAY, MARCH 29, 2015

6:30 – 12:00 Registration

6:30 – 8:00 Poster Viewing (2nd Set) (Authors not present) – Breakfast

7:30 – 8:30 Video Demonstrations of Signs, Diseases, and Complex Surgical Procedures in Pediatric Ophthalmology and Strabismus
Federico G. Velez, MD; Evelyn A. Paysse, MD; Jonathan M. Holmes, MD; Michael X. Repka, MD; Bibiana Jin Reiser, MD; Ramesh Kekunnaya, MD

8:00 – 11:00 Administrators Roundtable

8:00 – 12:00 Technician Course – Ophthalmic Technician Clinical Skills Workshop
Merrill Stass-Isern, MD; Lisa P. Rovick, CO,

8:40 – 8:42 Introduction of Young Investigator Award
Kristina Tarczy-Hornoch, MD

8:42 – 8:50 Young Investigator Award
Fixational Eye Movements – Microsaccades in Amblyopia
Fatema Ghasia, MD

9:00 – 10:00 Difficult Problems – Non Strabismus
Elias I. Traboulsi, MD, MEd; Arlene V. Drack, MD; F. James Ellis, MD; Mohamad S. Jaafar, MD; Virginia Utz, MD; Deborah K. VanderVeen, MD

10:10 – 11:10 Difficult Problems – Strabismus
Sean P. Donahue, MD, PhD; Edward G. Buckley, MD; Stacy Pineles, MD; Oscar Cruz, MD; Linda Dagi, MD; Marc Greenberg, MD

11:10 End of 2015 Meeting

Hard Board Poster Program
First Set of Posters

STRABISMUS

<table>
<thead>
<tr>
<th>#</th>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Strabismus Outcomes in the Infant Aphakia Treatment Study</td>
<td>Erick D. Bothun, MD</td>
</tr>
<tr>
<td>2</td>
<td>Divergence Insufficiency: Increased Incidence and Hypothesis Regarding Etiology</td>
<td>Justin D. Marsh</td>
</tr>
<tr>
<td>3</td>
<td>Treatment of Symptomatic Convergence Insufficiency (CI) with Home-Based Computerized Vergence System (CVS) Therapy in Children Age 5 to 18 Years</td>
<td>Pamela A. Huston, CO</td>
</tr>
<tr>
<td>4</td>
<td>Heavy Eye Syndrome (HES) and Sagging Eye Syndrome (SES) in High Myopes with Strabismus</td>
<td></td>
</tr>
<tr>
<td>Page</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>------</td>
<td>----------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>5</td>
<td>A Novel Finding of Amyloidosis of Superior Oblique Tendon in Brown Syndrome</td>
<td>Roland Joseph D. Tan, MD Ramesh Kekunnaya, FRCS</td>
</tr>
<tr>
<td>6</td>
<td>A Tool for Evaluating Ergonomic Posture During Strabismus Surgery</td>
<td>Scott E. Olitsky, MD</td>
</tr>
<tr>
<td>7</td>
<td>Treatment of Surgical Sutures with Antiseptic or Antibiotic to Reduce Suture Contamination: An In Vitro Experiment</td>
<td>Namratha Turlapati</td>
</tr>
<tr>
<td>8</td>
<td>Slipping the Knot: A Comparison of Knots Used in Adjustable Suture Strabismus Surgery</td>
<td>Kyle E. Miller, MD</td>
</tr>
<tr>
<td>9</td>
<td>Effect of Horizontal Strabismus Surgery on Lateral Comitance</td>
<td>Carolyn Graeber, MD</td>
</tr>
<tr>
<td>10</td>
<td>Long-Term Success in Surgically and Non-Surgically Managed Intermittent Exotropia</td>
<td>Sarah R. Hatt, DBO</td>
</tr>
<tr>
<td>11</td>
<td>Characteristics, Surgical Management and Outcomes of Adult-Onset Cranial Nerve Six Palsy</td>
<td>Sara F. Grace, MD</td>
</tr>
<tr>
<td>12</td>
<td>Retinal Dysfunction and Nerve Fiber Layer Loss in Pediatric Patients on Vigabatrin: An ERG and SD-OCT Study</td>
<td>Joshua M. Barnett</td>
</tr>
<tr>
<td>13</td>
<td>Visual Outcomes in Congenital Foveal Toxoplasmosis</td>
<td>Smith Ann M. Chisholm, MD</td>
</tr>
<tr>
<td>14</td>
<td>Fluorescein Angiography versus Fundus Photography on the Diagnosis and Management of Retinopathy of Prematurity</td>
<td>Samir N. Patel</td>
</tr>
<tr>
<td>15</td>
<td>Patterns of Retinal Hemorrhage Associated with Pediatric Cerebral Sinovenous Thrombosis</td>
<td>Julia E. Reid, MD</td>
</tr>
<tr>
<td>16</td>
<td>Predictors for the Development of Referral-Warranted Retinopathy of Prematurity in the Telemedicine Approaches to Evaluating of Acute-Phase ROP (e-ROP) Study</td>
<td>Gui-shuang Ying</td>
</tr>
<tr>
<td>17</td>
<td>Training Retinal Imagers for Retinopathy of Prematurity (ROP) Screening</td>
<td>Karen A. Karp, BSN</td>
</tr>
<tr>
<td>18</td>
<td>A Closer Look at Retinopathy of Prematurity Persisting After 40 Weeks and the Costs of Applying 2013 Screening Guidelines</td>
<td>Natalie C. Weil, MD</td>
</tr>
<tr>
<td>19</td>
<td>Clinical Efficacy and Pharmacology of Bevacizumab in Treatment of Retinopathy of Prematurity: A Comparison of Two Dosages</td>
<td>Lingkun Kong, MD, PhD</td>
</tr>
<tr>
<td>20</td>
<td>Uncertainty in the Diagnosis of Pre-Plus Disease in Retinopathy of Prematurity</td>
<td>Allison R. Loh, MD</td>
</tr>
<tr>
<td>21</td>
<td>Optic Nerve Morphology in Normal Children</td>
<td>John W. Simon, MD</td>
</tr>
<tr>
<td>22</td>
<td>Reproducibility of Retinal Nerve Fiber Layer Thickness Measures Using Eye-Tracking with Spectral-Domain Optical Coherence Tomography in Children with Optic Neuropathy</td>
<td>Robert A. Avery</td>
</tr>
<tr>
<td>23</td>
<td>Pediatric Spectral Domain-Optical Coherence Tomography (SD-OCT) Normative Data for Novel Optic Nerve Parameters Using the Heidelberg Spectralis</td>
<td>Gena Heidary, MD, PhD</td>
</tr>
<tr>
<td>24</td>
<td>Visual Outcomes in Children with Dorsal Midbrain Syndrome as a Result of Pineal Tumors</td>
<td>Julie K. Calderwood, MD</td>
</tr>
<tr>
<td>26</td>
<td>Management of Iris Cysts in Children</td>
<td>Carol L. Shields, MD</td>
</tr>
<tr>
<td>28</td>
<td>Epidemiology and Clinical Characteristics of Pediatric Eyelid Retraction</td>
<td></td>
</tr>
</tbody>
</table>
### AMBLYOPIA

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>Audiovisual Perception in Children with Amblyopia</td>
<td>Agnes M. Wong, MD, PhD</td>
</tr>
<tr>
<td>30</td>
<td>Macular Structure and Fixation Pattern in Amblyopic and Healthy Eyes</td>
<td>Jing Jin, MD, PhD</td>
</tr>
<tr>
<td>31</td>
<td>The Analysis of Peripapillary Retinal Nerve Fiber Layer, Macular, Macular Ganglion Cell Layer Thicknesses in Patients with Monocular Amblyopia Using SD OCT</td>
<td>Young Je Choi, MD</td>
</tr>
<tr>
<td>32</td>
<td>Distinctive Features of Microsaccades in Amblyopia and Refractive Blur</td>
<td>Priyanka Kumar, MD</td>
</tr>
<tr>
<td>33</td>
<td>Objective Compliance for Atropine Penalization Treatment of Amblyopic Children</td>
<td>Jingyun Wang</td>
</tr>
<tr>
<td>34</td>
<td>Amblyogenic Factors in Children with Neurofibromatosis Type 1 and their Relation to the Management of Optic Pathway Gliomas</td>
<td>Eva Gajdosova, MD, PhD</td>
</tr>
<tr>
<td>35</td>
<td>Severe Corneal Complications in Children with Blepharitis</td>
<td>Diyaa Rachdan, MD, MSc(Oxon), FRCPht</td>
</tr>
<tr>
<td>36</td>
<td>A Review of Traumatic Open Globe Injury in Young Pediatric Patients: Epidemiology and Outcomes</td>
<td>Sarah P. Read</td>
</tr>
<tr>
<td>37</td>
<td>Clinical Application of the ATOM2 Study: Atropine 0.01% Significantly Reduces Childhood Myopic Progression</td>
<td>Tiana Y. Clark</td>
</tr>
<tr>
<td>38</td>
<td>Excimer Laser Refractive Surgery Outcomes in 405 Children and Adolescents</td>
<td>Nicholas Faron</td>
</tr>
<tr>
<td>39</td>
<td>Long-Term Developmental Improvement in Children with Neurobehavioral Disorders Following Photorefractive Keratectomy for Bilateral Isoametropic Amblyopia</td>
<td>Charity H. Grannis, MD</td>
</tr>
<tr>
<td>40</td>
<td>A Cost Comparison Study between Recommendations from the American Optometric Association and Recommendations from the American Association for Pediatric Ophthalmology and Strabismus on the Correction of Hyperopia in Children</td>
<td>Philip Niles</td>
</tr>
</tbody>
</table>

### VISION SCREENING

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>41</td>
<td>Pediatric Vision Screening: The Colorado School Nurse Experience</td>
<td>Rebeca S. Braverman, MD</td>
</tr>
<tr>
<td>42</td>
<td>Vision First: A Comprehensive Screening Program for Young Children</td>
<td>Joseph F. Griffith, MD</td>
</tr>
<tr>
<td>43</td>
<td>A New Computer-Based Pediatric Vision-Screening Test</td>
<td>David A. Leske, MS</td>
</tr>
</tbody>
</table>

### CATARACT

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>44</td>
<td>Visual Outcomes of Patients with Congenital Cataracts and Sensory Nystagmus</td>
<td>Charlene H. Crockett, MD</td>
</tr>
<tr>
<td>45</td>
<td>Axial Growth and Clinical Outcomes of Children Operated for Bilateral Ectopia Lentis</td>
<td>Jennifer D. Davidson, MD</td>
</tr>
<tr>
<td>46</td>
<td>Baseline Characteristics of the Infant Aphakia Treatment Study Population: How Well Can They Predict Recognition Visual Acuity at 4.5 Years?</td>
<td>E. Eugenie Hartmann, PhD</td>
</tr>
<tr>
<td>47</td>
<td>Endothelial Cell Counts in Children after Unilateral Cataract Surgery in the Infant Aphakia Treatment Study</td>
<td>David G. Morrison</td>
</tr>
<tr>
<td>48</td>
<td>Incidence, Natural History, and Outcomes of Traumatic Cataract after Hyphema Associated with Blunt Ocular Trauma in Children</td>
<td>Ankoor S. Shah, MD, PhD</td>
</tr>
<tr>
<td>49</td>
<td>A New Diagnostic Approach to Children with Cataract Caused by Metabolic Disease</td>
<td>Rachel L. Gillespie</td>
</tr>
</tbody>
</table>

### GLAUCOMA

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>Rebound Tonometry over an Air-Filled Anterior Chamber in the Supine Child after Intraocular Surgery</td>
<td>Ryan Davis</td>
</tr>
<tr>
<td>51</td>
<td>Longitudinal Evaluation of Intraocular Pressure in Pediatric Hyphema: A New Paradigm for Follow Up</td>
<td></td>
</tr>
</tbody>
</table>
### NYSTAGMUS

| 52 | Surgical Outcomes using a Modified Anderson-Kestenbaum Operation  
    | Charline S. Boente |
| 53 | Two Types of Head Oscillations in Infantile Nystagmus Syndrome  
    | Fatema F. Ghasia, MD |

### PUBLIC HEALTH

| 54 | Clinicopathological Findings in Abusive Head Trauma: Analysis of 110 Infant Autopsy Eyes  
    | Kelly H. Unkrich, MD |
| 55 | Pediatric Eye Injuries Due to Nonpowder Guns in the United States, 2002-2012  
    | Rachel H. Lee, BS |
| 56 | Residency Factors that Affect Residents’ Pursuit of Pediatric Ophthalmology  
    | Elizabeth S. John, BA |

### Electronic Poster Program

Poster numbers are subject to change. Please check the final program for poster number at the meeting. E-Poster review is not eligible for CME.

### AMBLYOPIA

| 1 | Lash ptosis as a Complication of Patching for Treatment of Amblyopia  
    | Moustafa S. Abdelhafez, FRCS, MD |
| 2 | Amblyopia Occlusion Therapy Compliance: Amblyz™ Liquid Crystal Glasses Versus Traditional Adhesive Patches  
    | Tina Damarjian |
| 3 | Prevalence of Amblyopia in Children in Bulgaria  
    | Stela P. Dikova, MD |
| 4 | False Positive Amblyopia Prediction During Fixation Preference Testing of Strabismic Patients (pseudoamblyopia) Correlates with Ocular Dominance  
    | Arif O. Khan |
| 5 | Atropine Penalization in the Management of Amblyopia in Children: Survey of UK Pediatric Ophthalmologists  
    | Neda Minakaran |
| 6 | Binocular Dichoptic Video Content Treatment for Amblyopia – Pilot Study  
    | Chaim Stolovitch, MD |
| 7 | Measurement Tool for Assessing Visual Function in Patients with Amblyopia  
    | Kathryn P. Winkler |
| 8 | Alternate Occlusion for Bilateral Ametropic Amblyopia  
    | Di D. Zou |

### ANTERIOR SEGMENT

| 9 | Using Anterior Segment Imaging as a Guide for the Surgical Management of Pediatric Corneal Opacities  
    | Luxme Hariharan, MD, MPH |
| 10 | Effect of Blink Rate During Videogame Related Activities and Reading in School-Aged Children  
    | Catherine O. Jordan, MD |
| 11 | Episodic Excessive Blinking in Children  
    | Yasmin P. Mali, MD |
| 12 | Peters Anomaly Phenotypic Spectrum – from Mild to Severe Disease  
    | Kamiar Mireskandari |
| 13 | Lamellar Keratoplasty for Excision of Limbal Dermoids  
    | Oriel Spierer, MD |

### CATARACTS

| 14 | Endophthalmitis after Cataract Surgery in Children  
    | Sumita Agarkar, MD |
| 15 | Manifest Nystagmus in Children with Monocular Congenital Cataract  
    | Luai T. Eldweik |
| 16 | Pentacam and OCT Imaging Techniques in Pseudophakic Eyes of Children  
    | Catherine Gasper, BS |
| 17 | Preferred Practice Patterns for Pediatric Cataract Surgery and Post-Operative Management  
    | Jennifer J. Greebel |
| 18 | Traumatic Cataract in Children: A Long Term Follow Up – A Retrospective Observational Review  
<pre><code>| Assaf Hilely, MD |
</code></pre>
<p>| 19 | Visual Acuity and Refractive Outcome in Pediatric IOL Implantation with Initial Low vs High Hyperopia |</p>
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Structural Changes of the Anterior Chamber Following Cataract Surgery During Infancy</td>
<td>Matthew Nguyen, MD</td>
</tr>
<tr>
<td>21</td>
<td>Refractive Growth in Pseudophakic Children Age 2-6 Years</td>
<td>Bharti Nihalani-Gangwani</td>
</tr>
<tr>
<td>22</td>
<td>Bilateral Pediatric Cataracts: Nystagmus, Strabismus and Visual Outcome: A 10-Year Data Analysis</td>
<td>Judith R. Sabah</td>
</tr>
<tr>
<td>23</td>
<td>Ocular Axial Growth in Pseudophakic Eyes of Patients Operated for Monocular Infantile Cataract: A Comparison of Operated and Fellow Eyes Measured at Surgery and 5 or More Years Later</td>
<td>Dina Tadros, MD</td>
</tr>
<tr>
<td>24</td>
<td>Associated Systemic and Ocular Disorders in Patients with Congenital Unilateral Cataracts – The IATS Experience</td>
<td>Elias I. Traboulsi, MD, MEd</td>
</tr>
<tr>
<td>25</td>
<td>Long-Term Outcomes of Anterior Chamber Intraocular Lens Placement in a Pediatric Cohort</td>
<td>Reid P. Turner, MD</td>
</tr>
<tr>
<td>26</td>
<td>Benchmarks for Outcome Indicators in Pediatric Cataract Surgery</td>
<td>Deborah K. VanderVeen</td>
</tr>
<tr>
<td>27</td>
<td>Ocular Hypertension and Glaucoma Suspects in Pediatric Patient Population</td>
<td>Kara M. Cavuoto</td>
</tr>
<tr>
<td>28</td>
<td>Canaloplasty in Juvenile Glaucoma – A Case Report</td>
<td>Susan H. Senft, MD</td>
</tr>
<tr>
<td>29</td>
<td>Assessment of intraocular Pressure with iCare Rebound Tonometry in a Pediatric Ophthalmology Clinic</td>
<td>Aman Sharma, MD</td>
</tr>
<tr>
<td>30</td>
<td>Survey of Health- and Vision-Related Quality of Life and Functional Vision in Children and Young People with Childhood Glaucoma and Cataract</td>
<td>Vijay K. Tailor</td>
</tr>
<tr>
<td>31</td>
<td>Accommodation in Children with Cerebral Palsy</td>
<td>Claudia Aviles, MD</td>
</tr>
<tr>
<td>32</td>
<td>Pediatric Idiopathic Intracranial Hypertension: A Major Review</td>
<td>Rahul Bhola</td>
</tr>
<tr>
<td>33</td>
<td>Strabismus in Patients with Cortical Visual Impairment: Observations of Spontaneous Resolution and Outcomes of Surgery</td>
<td>Nicholas R. Binder</td>
</tr>
<tr>
<td>34</td>
<td>Outcome of Pediatric Patients Referred for Papilledema</td>
<td>Jessica J. Kovarik, MD</td>
</tr>
<tr>
<td>35</td>
<td>Correlation of Optic Nerve Sheath Diameter Using B-Scan Ultrasound with MRI Anatomy in Pediatric Patients</td>
<td>Ellen R. Miller</td>
</tr>
<tr>
<td>36</td>
<td>The Post-Concussion Syndrome: Influence on Binocular Function</td>
<td>Gill Roper-Hall, DBOT</td>
</tr>
<tr>
<td>37</td>
<td>Ocular Long Term Effects of Airsoft Gun Pellet Injury, the Most Frequent Ocular Trauma Mechanism among Danish Children, A 7 Year Follow-Up Study of 28 Cases</td>
<td>Jon Peiter Saunte, MD</td>
</tr>
<tr>
<td>38</td>
<td>Idiopathic Orbital Pseudotumor Preceding Systemic Inflammatory Disease in Children</td>
<td>Mai Tsukikawa</td>
</tr>
<tr>
<td>39</td>
<td>Ophthalmic Pathology in Down Syndrome Patients: Characterization in Chilean Children</td>
<td>Bernardita Alamos, MD</td>
</tr>
<tr>
<td>40</td>
<td>Eye and Systemic Manifestations of Moebius Syndrome</td>
<td>Juan Carols Juarez Echenique</td>
</tr>
<tr>
<td>41</td>
<td>Is It Usher Syndrome? Diagnosing Children with Hearing Loss and Ocular Findings</td>
<td>Ashley S. Ko, MD</td>
</tr>
<tr>
<td>42</td>
<td>Prevalence and Clinical Characteristics of Ocular Diseases in Children with HIV/AIDS</td>
<td>Taliva D. Martin, MD</td>
</tr>
<tr>
<td>43</td>
<td>Intraocular Pressure in Children with Down Syndrome</td>
<td>Maria Teresa Rodriguez Neira, CO</td>
</tr>
<tr>
<td>44</td>
<td>Novel Technique for the Repair of Large Upper Eyelid Colobomas</td>
<td>Alexandra T. Elliott, MD</td>
</tr>
<tr>
<td>Page</td>
<td>Title</td>
<td>Author(s)</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>45</td>
<td>Multi-Tool Instrument Decreases Complications with Nasolacrimal Intubation</td>
<td>Celia Haering</td>
</tr>
<tr>
<td>46</td>
<td>Retrieval of a Monoka Silicone Tube from the Pharynx during Silicone Intubation Procedure for Persistent Congenital Nasolacrimal Duct Obstruction Assisted by the Anesthesiologist</td>
<td>Daphna Mezad-Koursh, MD</td>
</tr>
<tr>
<td>47</td>
<td>Canaliculac Laceration Repair with a Novel Viscoelastic Injection Technique to Locate and Dilate the Proximal Torn Edge</td>
<td>Faruk H. Orge</td>
</tr>
<tr>
<td>48</td>
<td>Analysis of the Readability of Patient Education Materials in Pediatric Ophthalmology</td>
<td>Ann M. John, BA</td>
</tr>
<tr>
<td>49</td>
<td>Evaluating Patient Satisfaction in the Pediatric Ophthalmology and Strabismus Clinic During the Transition to Electronic Medical Records</td>
<td>Pedro F. Monsalve, MD</td>
</tr>
<tr>
<td>50</td>
<td>Predicting Total Physician Time per Patient Using Linguistic Features in an Electronic Health Record</td>
<td>Constance E. West, MD</td>
</tr>
<tr>
<td>51</td>
<td>A Comparison of Food and Drug Administration (FDA) Status to Current Guidelines for Medications used in Pediatric Ophthalmology</td>
<td>Gerard P. Barry</td>
</tr>
<tr>
<td>52</td>
<td>Establishing a Surgical Outreach Program in the Developing World: Pediatric Strabismus Surgery in Guatemala City, Guatemala</td>
<td>Lauren C. Ditta</td>
</tr>
<tr>
<td>53</td>
<td>Ophthalmologic Outcome of Extremely Preterm Infants at 6.5 Years of Age; Extremely Preterm Infants Study in Sweden (EXPRESS)</td>
<td>Kerstin M. Hellgren, MD, PhD</td>
</tr>
<tr>
<td>54</td>
<td>A Comparison between Pediatric and Adult Ophthalmology Consults in an Urban Academic Institution</td>
<td>Sunju Park, MD</td>
</tr>
<tr>
<td>55</td>
<td>The Effectiveness of a Mobile Clinic in Improving Follow-Up Eye Care for At-Risk Children</td>
<td>Jinali Patel, MD</td>
</tr>
<tr>
<td>56</td>
<td>Epidemiology of Pediatric Ophthalmic Trauma</td>
<td>Joshua A. Schliesser</td>
</tr>
<tr>
<td>57</td>
<td>The Impact of Insurance Status on Hospital Resource Utilization in Pediatric Ophthalmic Inpatients</td>
<td>Daniel C. Terveen</td>
</tr>
<tr>
<td>58</td>
<td>Seizures Induced by Cycloplegic Eye Drops</td>
<td>Tamara Wygnanski-Jaffe, MD</td>
</tr>
<tr>
<td>59</td>
<td>Evaluation of Optic Nerve Compression as a Potential Cause of Retinal Hemorrhage in Infants</td>
<td>Gil Binenbaum, MD, MSCE</td>
</tr>
<tr>
<td>60</td>
<td>Circumferential Macular Folds Associated with Reduced Macular Hemorrhages in Non-Accidental Trauma: Implications for the Theory of Vitreous Traction</td>
<td>Alexander E. Pogrebniak, MD</td>
</tr>
<tr>
<td>61</td>
<td>Spectral Domain-Optical Coherence Tomography Findings in Pediatric Tilted Disc Syndrome</td>
<td>Massimiliano Serafino, MD</td>
</tr>
<tr>
<td>62</td>
<td>Pediatric Ophthalmologists’ Trends in Abusive Head Trauma</td>
<td>Evan C. Sussenbach, MD</td>
</tr>
<tr>
<td>63</td>
<td>UK National Survey of Treatment for Retinopathy of Prematurity (ROP)</td>
<td>Gillian G. Adams, FRCSEd</td>
</tr>
<tr>
<td>64</td>
<td>Ensuring Successful Enrollment of Premature Babies into NICU Based Clinical Studies: Lessons Learned from the Telemedicine Approach to Evaluating Acute-Phase Retinopathy of Prematurity (ROP) – e-ROP Study</td>
<td>Agnieszka Baumritter</td>
</tr>
<tr>
<td>65</td>
<td>An Evaluation of Trainees’ Ability to Acquire Retinal Images of Premature Infants Using an Indirect Ophthalmoscopy System</td>
<td>Jared E. Duncan</td>
</tr>
<tr>
<td>66</td>
<td>Quantifying and Qualifying the Use of Topical Anesthetics in Retinopathy of Prematurity Examinations, A Survey</td>
<td>Blake D. Forcina, MD</td>
</tr>
<tr>
<td>67</td>
<td>Program for Prevention on Blindness in Peru: An Update</td>
<td>Luz J. Gordillo, MD</td>
</tr>
<tr>
<td>68</td>
<td>A Comparison of Food and Drug Administration (FDA) Status to Current Guidelines for Medications used in Pediatric Ophthalmology</td>
<td>Gerard P. Barry</td>
</tr>
<tr>
<td>69</td>
<td>Establishing a Surgical Outreach Program in the Developing World: Pediatric Strabismus Surgery in Guatemala City, Guatemala</td>
<td>Lauren C. Ditta</td>
</tr>
<tr>
<td>70</td>
<td>Ophthalmologic Outcome of Extremely Preterm Infants at 6.5 Years of Age; Extremely Preterm Infants Study in Sweden (EXPRESS)</td>
<td>Kerstin M. Hellgren, MD, PhD</td>
</tr>
<tr>
<td>71</td>
<td>A Comparison between Pediatric and Adult Ophthalmology Consults in an Urban Academic Institution</td>
<td>Sunju Park, MD</td>
</tr>
<tr>
<td>72</td>
<td>The Effectiveness of a Mobile Clinic in Improving Follow-Up Eye Care for At-RiskChildren</td>
<td>Jinali Patel, MD</td>
</tr>
<tr>
<td>73</td>
<td>Epidemiology of Pediatric Ophthalmic Trauma</td>
<td>Joshua A. Schliesser</td>
</tr>
<tr>
<td>74</td>
<td>The Impact of Insurance Status on Hospital Resource Utilization in Pediatric Ophthalmic Inpatients</td>
<td>Daniel C. Terveen</td>
</tr>
<tr>
<td>75</td>
<td>Seizures Induced by Cycloplegic Eye Drops</td>
<td>Tamara Wygnanski-Jaffe, MD</td>
</tr>
<tr>
<td>76</td>
<td>Evaluation of Optic Nerve Compression as a Potential Cause of Retinal Hemorrhage in Infants</td>
<td>Gil Binenbaum, MD, MSCE</td>
</tr>
<tr>
<td>77</td>
<td>Circumferential Macular Folds Associated with Reduced Macular Hemorrhages in Non-Accidental Trauma: Implications for the Theory of Vitreous Traction</td>
<td>Alexander E. Pogrebniak, MD</td>
</tr>
<tr>
<td>78</td>
<td>Spectral Domain-Optical Coherence Tomography Findings in Pediatric Tilted Disc Syndrome</td>
<td>Massimiliano Serafino, MD</td>
</tr>
<tr>
<td>79</td>
<td>Pediatric Ophthalmologists’ Trends in Abusive Head Trauma</td>
<td>Evan C. Sussenbach, MD</td>
</tr>
<tr>
<td>80</td>
<td>UK National Survey of Treatment for Retinopathy of Prematurity (ROP)</td>
<td>Gillian G. Adams, FRCSEd</td>
</tr>
<tr>
<td>81</td>
<td>Ensuring Successful Enrollment of Premature Babies into NICU Based Clinical Studies: Lessons Learned from the Telemedicine Approach to Evaluating Acute-Phase Retinopathy of Prematurity (ROP) – e-ROP Study</td>
<td>Agnieszka Baumritter</td>
</tr>
<tr>
<td>82</td>
<td>An Evaluation of Trainees’ Ability to Acquire Retinal Images of Premature Infants Using an Indirect Ophthalmoscopy System</td>
<td>Jared E. Duncan</td>
</tr>
<tr>
<td>83</td>
<td>Quantifying and Qualifying the Use of Topical Anesthetics in Retinopathy of Prematurity Examinations, A Survey</td>
<td>Blake D. Forcina, MD</td>
</tr>
<tr>
<td>84</td>
<td>Program for Prevention on Blindness in Peru: An Update</td>
<td>Luz J. Gordillo, MD</td>
</tr>
<tr>
<td>Page</td>
<td>Title</td>
<td>Author(s)</td>
</tr>
<tr>
<td>------</td>
<td>----------------------------------------------------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>68</td>
<td>Accommodative Lag in Children with Retinopathy of Prematurity Treated with Intravitreal Injection of Bevacizumab</td>
<td>Kathryn M. Haider</td>
</tr>
<tr>
<td>69</td>
<td>Severe Retinopathy of Prematurity (ROP) is Associated with Hypocarbia in Ventilated Preterm Infants</td>
<td>Hana Leiba, MD</td>
</tr>
<tr>
<td>70</td>
<td>Babies at Risk for Retinopathy of Prematurity in Ghana</td>
<td>Akosua A. Nti, MD</td>
</tr>
<tr>
<td>71</td>
<td>Short and Intermediate-Term Clinical Outcomes in Infants Treated with 0.5 mg and 0.625 mg Intravitreal Bevacizumab for Vision-Threatening Retinopathy of Prematurity</td>
<td>Leah A. Owen</td>
</tr>
<tr>
<td>72</td>
<td>Characterization of Leukocyte Infiltration and Microglial Activation after Ischemia-Reperfusion Injury Induced Retinal Neuroinflammation</td>
<td>Dolly Ann Padovani-Claudio, MD, PhD</td>
</tr>
<tr>
<td>73</td>
<td>Facilitated versus Self-Guided Training for Grading of Retinal Images for ROP</td>
<td>Nikolas N. Raufi</td>
</tr>
<tr>
<td>74</td>
<td>Evaluating the Clinical Benefit of Earlier Retinopathy of Prematurity Screening</td>
<td>Dipal P. Shah</td>
</tr>
<tr>
<td>75</td>
<td>Involution of Type 1 Retinopathy of Prematurity after Treatment with Intravitreal Bevacizumab</td>
<td>Nasrin Tehrani, FRCSC</td>
</tr>
<tr>
<td>76</td>
<td>ROPTool Analysis of Images from a Non-Contact Handheld Fundus Camera</td>
<td>Laura A. Vickers</td>
</tr>
<tr>
<td>77</td>
<td>Racial Disparity in the Association of Average Day Length During Early Gestation with Treated Retinopathy of Prematurity: A Multicenter Study</td>
<td>Michael B. Yang</td>
</tr>
</tbody>
</table>

**STRABISMUS**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>78</td>
<td>The Spectrum of Diplopia Management in Ocular Motility Disorders</td>
<td>Shauna E. Berry, DO</td>
</tr>
<tr>
<td>79</td>
<td>Acquired Inverse Duane Retraction Syndrome Secondary to Medial Rectus Muscle Cysticercosis</td>
<td>Venkateshwar Bhoompally, MD</td>
</tr>
<tr>
<td>80</td>
<td>Comparison of Objective and Subjective Techniques of Strabismus Measurement in Adults with Normal Retinal Correspondence</td>
<td>Derek P. Bitner, MD</td>
</tr>
<tr>
<td>81</td>
<td>Corrective of Binocular Diplopia with Novel Contact Lens Technology</td>
<td>Tara L. Bragg, CO</td>
</tr>
<tr>
<td>82</td>
<td>Quality of Life in Strabismus</td>
<td>Melinda Chang, MD</td>
</tr>
<tr>
<td>83</td>
<td>Functional Morphometry Using Magnetic Resonance Imaging (MRI) of Cyclovertical Extraocular Muscles (EOMs) During Vertical Ductions</td>
<td>Robert A. Clark, MD</td>
</tr>
<tr>
<td>84</td>
<td>Knobby Eye Syndrome: Irregular Posterior Staphyloma as a Factor Complicating Strabismus in High Myopia</td>
<td>Joseph L. Demer, MD, PhD</td>
</tr>
<tr>
<td>85</td>
<td>Dissociated Ocular Deviations in Adults</td>
<td>Sneh S. Dhannawat, MBBS</td>
</tr>
<tr>
<td>86</td>
<td>Childhood Intermittent Exotropia from a Different Angle: Does Severity Affect Quality of Life?</td>
<td>Shin B. Lim</td>
</tr>
<tr>
<td>87</td>
<td>A Twisted Tale of Ocular Torsion</td>
<td>Vaishali Lodhia</td>
</tr>
<tr>
<td>88</td>
<td>Stereoaucity in Children with Accommodative Esotropia versus Partially Accommodative Esotropia</td>
<td>Brian Mohney</td>
</tr>
<tr>
<td>89</td>
<td>Superior Oblique Muscle Size in Brown Syndrome</td>
<td>Soh Youn Suh, MD</td>
</tr>
<tr>
<td>90</td>
<td>What Does Convergence Insufficiency Look Like to the Strabismologist?</td>
<td>Naomie K. Warner, DO</td>
</tr>
</tbody>
</table>

**STRABISMUS SURGERY**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>91</td>
<td>Extraocular Muscles Abnormalities and Surgical Management of Strabismus Following Melanoma Plaque Brachytherapy</td>
<td>Shatha H. Alfreih, MD</td>
</tr>
<tr>
<td>92</td>
<td>Successfully Managed Endophthalmitis Following Strabismus Surgery in Three Patients</td>
<td>Saba T. Alniemi, MD</td>
</tr>
<tr>
<td>Page</td>
<td>Title</td>
<td>Author(s)</td>
</tr>
<tr>
<td>------</td>
<td>----------------------------------------------------------------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>93</td>
<td>Defining Quality Standards in Primary Convergent Squint Surgery – A Prospective 5 Year Audit</td>
<td>Adam Bates</td>
</tr>
<tr>
<td>94</td>
<td>Instructions to Patients and Families Following Strabismus Surgery</td>
<td>Gad Dotan</td>
</tr>
<tr>
<td>95</td>
<td>Total Transposition Combined with Resection of Superior and Inferior Rectus Muscles in the Treatment of Complete 6th Cranial Nerve Palsy</td>
<td>Marina A. Eisenberg</td>
</tr>
<tr>
<td>96</td>
<td>Accommodative Esotropia (AET) Treatment Utilizing Simultaneous Strabismus Surgery and Photorefractive Keratoplasty</td>
<td>H. Sprague Eustis, MD</td>
</tr>
<tr>
<td>97</td>
<td>Long-Term Outcomes of Strabismus Surgery in Mobius Syndrome</td>
<td>Marlo Galli, CO</td>
</tr>
<tr>
<td>98</td>
<td>Novel Technique for Surgical Correction of Small Angle Vertical Deviation</td>
<td>Larissa A. Habib, MD</td>
</tr>
<tr>
<td>99</td>
<td>Immediate Postoperative Alignment Following Surgery for Esotropia in Children Compared to Adults</td>
<td>Mohamed B. Hassan</td>
</tr>
<tr>
<td>100</td>
<td>The Newcastle Control Score – A Predictor of Surgical Outcomes in Distance Intermittent Exotropia?</td>
<td>Hugh Jewsbury</td>
</tr>
<tr>
<td>101</td>
<td>Factors Affecting the Difference between Simultaneous Prism Cover Test (SPCT) and Alternate Prism Cover Test (APCT): Monitoring Post-Operative Alignment after Surgery for Exotropia</td>
<td>Pavlina S. Kemp, MD</td>
</tr>
<tr>
<td>102</td>
<td>Improved Maintenance of Binocularity in Ocular Neuromyotonia after Strabismus Surgery</td>
<td>Anna Kim, MD</td>
</tr>
<tr>
<td>103</td>
<td>Long-Term Surgical Outcome and Developmental Abnormalities in Infantile Exotropia</td>
<td>Gregg Lueder, MD</td>
</tr>
<tr>
<td>104</td>
<td>A Comparison of Surgical Outcomes in Patients with Unilateral Cranial Nerve VI Palsy</td>
<td>Kimberly S. Merrill, CO</td>
</tr>
<tr>
<td>105</td>
<td>A Modified Technique for Strabismus Surgery in the Presence of a Scleral Buckle</td>
<td>Mitra Nejad</td>
</tr>
<tr>
<td>106</td>
<td>Surgical Success in Strabismus Surgery with Conventional vs Hang-Back Technique</td>
<td>Cristian M. Salgado, MD</td>
</tr>
<tr>
<td>107</td>
<td>Adjustable Partial Vertical Rectus Transpositioning in Cases of Lateral Rectus Palsy</td>
<td>Pradeep I. Sharma, MD</td>
</tr>
<tr>
<td>108</td>
<td>Long-Term Stability of Postoperative Deviation in Sensory Strabismus: Surgery of the Dominant or Non-Dominant Eye</td>
<td>Federica Solanes, MD</td>
</tr>
<tr>
<td>109</td>
<td>Divergence Insufficiency: Increasing Numbers of Surgeries and Changing Referral Pattern for a Common Type of Adult Strabismus</td>
<td>David R. Stager, Sr</td>
</tr>
<tr>
<td>110</td>
<td>Rectus Muscle Advancement for the Treatment of Ocular Misalignment Following Scleral Buckle</td>
<td>Kirstin L. Tawse</td>
</tr>
<tr>
<td>111</td>
<td>Results of Esotropia Surgery in Premature Children</td>
<td>Carolyn Wu, MD</td>
</tr>
<tr>
<td>112</td>
<td>Surgical Treatment of Divergence Insufficiency Esotropia</td>
<td>Chris Y. Wu, BS</td>
</tr>
<tr>
<td></td>
<td>VISION</td>
<td></td>
</tr>
<tr>
<td>113</td>
<td>The Newly Sighted Match Seen with Felt – An Answer to Molyneux Question from 1688</td>
<td>Itay Ben-Zion, MD</td>
</tr>
<tr>
<td>114</td>
<td>New Trends in Childhood Vision Impairment in a Developed Country</td>
<td>Susan Carden, MBBS, FRANZCO, PhD</td>
</tr>
<tr>
<td>115</td>
<td>Atropine 0.01% for the Treatment of Progressive Myopia Feasibility Study</td>
<td>Noha S. Ekdawi, MD</td>
</tr>
<tr>
<td>116</td>
<td>Prescribing Eye Glasses in Preverbal Children: Simplified Rules and Preferred Practice Patterns – AAPOS Members Survey Results</td>
<td>Suqin Guo, MD</td>
</tr>
<tr>
<td>117</td>
<td>Parent Experiences and Perspectives on Medical Services for their Children with Albinism: A Qualitative Study</td>
<td>Kelly E. Lusk, PhD, CLVT</td>
</tr>
<tr>
<td>118</td>
<td>It Does Matter, Outcomes of Prescribing Glasses in Students with Neuro-Developmental Disabilities</td>
<td>Ivonne M. Radinson Alvarado, BS</td>
</tr>
<tr>
<td>119</td>
<td>Functional Outcomes of Young Infants with and without Macular Edema</td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>---------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Adam L. Rothman, BS</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>120</th>
<th>Outcome of Optical Iridectomy in Peters Anomaly</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sirinya Suwannaraj</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>121</th>
<th>Visual Acuity and Associations in Children with High Hypermetropia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Patrick Watts</td>
</tr>
</tbody>
</table>

**VISION SCREENING**

<table>
<thead>
<tr>
<th>122</th>
<th>Refractive Errors and Amblyopia in the UCLA Preschool Vision Program; First Year Results</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Karen Hendler</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>123</th>
<th>Bruckner Test, A Novel Technique for the Rapid Detection of Refractive Errors in Children by the Pediatricians</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Piyush Jain</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>124</th>
<th>High Specificity of the Pediatric Vision Scanner in a Private Pediatric Primary Care Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Reed M. Jost, MS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>125</th>
<th>BVAT Ordering of Letters: More than Visual Acuity?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jill C. Rotruck</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>126</th>
<th>Do We Need to Directly Detect Astigmatism when Photoscreening for Amblyopia Risk Factors (ARFs)?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>David I. Silbert, MD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>127</th>
<th>Efficacy of a Vision-Screening Tool for Birth to 3 Early Intervention Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Roger Struble, Jr</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>128</th>
<th>Oregon Elks Children’s Eye Clinic Vision Screening Results</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Joannah M. Vaughan</td>
</tr>
</tbody>
</table>

**EDUCATIONAL OBJECTIVES:** Upon completion of this symposium, participants will be able to:

- Describe recent medical advances in the diagnosis, management, and treatment of conditions encountered in the practice of pediatric ophthalmology and strabismus.
- Apply improved techniques, compare/contrast methods, and review clinical research and advances in order to provide the best possible treatment options and care to patients.
- Describe aspects of professionalism that will assist in practice of pediatric ophthalmology and strabismus.
- Describe new techniques in select aspects of surgery pertinent to pediatric ophthalmology and strabismus.

**FDA Status Disclaimer:** The FDA has stated that it is the responsibility of the physician to determine the FDA status of each drug or device he or she wishes to use in clinical practice, and to use these products with appropriate patient consent and in compliance with applicable law. The AAPOS provides the opportunity for material to be presented for educational purposes only. The material represents the approach, ideas, statement, or opinion of the presenter and/or author, not necessarily the only or best method or procedure in every case, nor the position of AAPOS. The material is not intended to replace a physician’s own judgment or give specific advice for case management. AAPOS specifically disclaims any and all claims that may arise out of the use of any technique demonstrated or described in any material by any presenter and/or author, whether a physician or any other person asserts such claims. Please note: AAPOS requires all presenters and/or authors to disclaim any drug or device that is not approved for use by the FDA during any oral presentation and/or on all written material.

**Accreditation Statement**
This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint providership of the American Academy of Ophthalmology and American Association for Pediatric Ophthalmology and Strabismus. The American Academy of Ophthalmology is accredited by the ACCME to provide continuing medical education for physicians.

**Credit Designation Statement**
The American Academy of Ophthalmology designates this enduring material for a maximum of 26.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.