AAPOS 2023
48TH ANNUAL MEETING • MARCH 29 – APRIL 2
NEW YORK CITY • NEW YORK, USA
PROGRAM
www.aapos.org

Photo: Julienne Schaer/NYC & Company
About the American Association for Pediatric Ophthalmology and Strabismus (AAPOS)

The mission of AAPOS is to identify and promote the highest quality medical and surgical eye care worldwide for all children, and for adults with eye misalignment. Established in 1974, AAPOS has over 2,000 members with representation from over 70 countries.
WELCOME!

On behalf of the AAPOS Board of Directors, welcome to the 48th Annual AAPOS meeting, our first ever in New York City!

We would like to extend our heartfelt thanks to our Program Committee and staff who have worked tirelessly to ensure we have a productive, educational, and fun meeting. We are so pleased to welcome over 1,300 attendees with representation from 49 countries. This year, we witnessed a record number of abstract submissions, have incorporated the largest volume of educational content ever, will host a sold-out exhibit hall, and have received extraordinary corporate sponsorship.

We are humbled that so many dedicated professionals committed to pediatric eye health have chosen to join us this week. We are especially pleased to welcome our 170 medical students and residents interested in a career in pediatric ophthalmology — many attending their first AAPOS meeting. These medical students and residents are wearing special ribbons on their badges — please reach out to them and share your experiences with your career.

It’s been an honor serving as your AAPOS President, Executive Vice President, and Secretary for Program — enjoy the meeting!

CONTENTS

Schedule at a Glance ................................................................. 2
AAPOS Leadership ................................................................. 4
Past Presidents ........................................................................ 5
AAPOS Committee/Task Force/Group Meetings ...................... 6
AAPOS Educational Mission ..................................................... 7
Continuing Medical Education ............................................... 8
Financial Disclosures ............................................................ 9
Awards and Lectures ............................................................... 10
AAPOS Pre-Meeting Day ......................................................... 18
AAPOS Administrators Program ............................................ 19
Hotel Maps ............................................................................. 20
Program Schedule ................................................................. 22
Posters .................................................................................. 34
Future AAPOS Meetings ....................................................... Inside Back Cover
### SCHEDULE AT A GLANCE

#### Wednesday, March 29

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM – 7:00 PM</td>
<td>Attendee Registration</td>
<td>NORTH REGISTRATION 5</td>
</tr>
<tr>
<td>8:00 AM – 4:00 PM</td>
<td>Pre-Day: Growing Your Practices’ Economic Potential: From Basics to Advanced Concepts (Separate Registration/Fee)</td>
<td>JUILLIARD COMPLEX 6</td>
</tr>
<tr>
<td>8:00 AM – 2:30 PM</td>
<td>AAPOS Board of Directors Meeting</td>
<td>ZIEGFELD 4</td>
</tr>
<tr>
<td>12:00 PM – 8:00 PM</td>
<td>Exhibitor Registration</td>
<td>NORTH REGISTRATION 5</td>
</tr>
<tr>
<td>12:00 PM – 8:00 PM</td>
<td>Exhibitor Installation</td>
<td>WESTSIDE BALLROOM 5</td>
</tr>
<tr>
<td>12:15 PM – 2:15 PM</td>
<td>AAPOS Council of Committee Chairs</td>
<td>ZIEGFELD 4</td>
</tr>
<tr>
<td>1:00 PM – 4:00 PM</td>
<td>Poster Set Up (1st Set)</td>
<td>LYCEUM COMPLEX 4</td>
</tr>
<tr>
<td>4:15 PM – 5:15 PM</td>
<td>OMIC Workshop</td>
<td>JUILLIARD COMPLEX 5</td>
</tr>
<tr>
<td>6:15 PM – 7:00 PM</td>
<td>International Attendees Reception</td>
<td>SKY LOBBY 16</td>
</tr>
<tr>
<td>7:00 PM – 9:00 PM</td>
<td>Opening Reception</td>
<td>THE TERRACE 9</td>
</tr>
</tbody>
</table>

#### Thursday, March 30

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM – 5:00 PM</td>
<td>Registration</td>
<td>NORTH REGISTRATION 5</td>
</tr>
<tr>
<td>8:00 AM – 8:55 AM</td>
<td>Opening Remarks and Costenbader Lecture</td>
<td>BROADWAY BALLROOM 5</td>
</tr>
<tr>
<td>8:00 AM – 5:00 PM</td>
<td>Administrators Program</td>
<td>JUILLIARD COMPLEX 5</td>
</tr>
<tr>
<td>8:55 AM – 10:05 AM</td>
<td>Scientific Session</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
<tr>
<td>10:05 AM – 11:05 AM</td>
<td>Interactive Poster Session – Author Presentation and Q/A (1st Set)</td>
<td>LYCEUM COMPLEX 5</td>
</tr>
<tr>
<td>11:10 AM – 11:25 AM</td>
<td>Presentation of Parks Medal Awards and CEF of AAPOS Update</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
<tr>
<td>11:25 AM – 11:55 AM</td>
<td>Helveston Lecture</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
<tr>
<td>11:55 AM – 1:05 PM</td>
<td>Scientific Session</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
<tr>
<td>1:15 PM – 2:00 PM</td>
<td>AAPOS Business Meeting</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
<tr>
<td>2:15 PM – 3:15 PM</td>
<td>SEC Practice Management Workshop</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
<tr>
<td>3:30 PM – 5:00 PM</td>
<td>Building Blocks of Documentation and Coding in Pediatric Ophthalmology (Separate Registration/Fee)</td>
<td>JUILLIARD COMPLEX 5</td>
</tr>
<tr>
<td>4:30 PM – 6:30 PM</td>
<td>Helveston Lecture/Founders Series Reception</td>
<td>WESTSIDE BALLROOM 5</td>
</tr>
</tbody>
</table>

#### Friday, March 31

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM – 5:00 PM</td>
<td>Registration</td>
<td>NORTH REGISTRATION 5</td>
</tr>
<tr>
<td>7:00 AM – 12:00 PM</td>
<td>Workshops (7:00 – 8:15; 8:30 – 9:45; 10:30 – 11:45)</td>
<td>BROADWAY NORTH SOUTH MAJESTIC SCHUBERT ALL 6</td>
</tr>
<tr>
<td>8:00 AM – 5:00 PM</td>
<td>Administrators Program</td>
<td>BROADHURST &amp; IMPERIAL 5</td>
</tr>
<tr>
<td>11:30 AM – 12:00 PM</td>
<td>Poster Removal (1st Set)</td>
<td>LYCEUM 5</td>
</tr>
<tr>
<td>11:45 AM – 1:15 PM</td>
<td>Lunch Break – On Your Own</td>
<td>ASTOR BALLROOM 7</td>
</tr>
<tr>
<td>12:00 PM – 1:00 PM</td>
<td>Corporate Sponsored Symposium with Lunch: Eyeing the Problem: Treating and Managing Ocular Manifestations of Nephropathic Cystinosis</td>
<td>ASTOR BALLROOM 7</td>
</tr>
<tr>
<td>1:15 PM – 4:00 PM</td>
<td>Workshops (1:15 – 2:30; 2:45 – 4:00)</td>
<td>BROADWAY NORTH SOUTH MAJESTIC SCHUBERT ALL 6</td>
</tr>
<tr>
<td>3:45 PM – 4:15 PM</td>
<td>Poster Set Up (2nd Set)</td>
<td>LYCEUM 5</td>
</tr>
<tr>
<td>4:15 PM – 5:15 PM</td>
<td>President’s Symposium</td>
<td>BROADWAY NORTH SOUTH 6</td>
</tr>
<tr>
<td>5:30 PM – 6:30 PM</td>
<td>Young Ophthalmologists, Senior Ophthalmologists, and New Member Reception</td>
<td>SKY LOBBY 16</td>
</tr>
</tbody>
</table>
## SCHEDULE AT A GLANCE

**Saturday, April 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM – 7:30 AM</td>
<td>AAPOS 5K Run/Walk</td>
<td>MEET ON 3RD FLOOR 3</td>
</tr>
<tr>
<td>6:45 AM – 7:45 AM</td>
<td>Corporate Sponsored Symposium with Breakfast: A New Reality in Amblyopia Treatment</td>
<td>ASTOR BALLROOM 7</td>
</tr>
<tr>
<td>7:00 AM – 5:00 PM</td>
<td>Registration</td>
<td>NORTH REGISTRATION 5</td>
</tr>
<tr>
<td>8:00 AM – 9:50 AM</td>
<td>Scientific Session</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
<tr>
<td>9:50 AM – 10:50 AM</td>
<td>Interactive Poster Session – Author Presentation and Q/A (2nd Set)</td>
<td>LYCEUM COMPLEX 5</td>
</tr>
<tr>
<td>10:55 AM – 11:25 AM</td>
<td>Updates: ABO; AAP, NEI, J AAPOS, IPOSC, Meetings, Solar Eclipse</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
<tr>
<td>11:25 AM – 1:00 PM</td>
<td>Scientific Session</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
<tr>
<td>1:15 PM – 2:00 PM</td>
<td>Corporate Sponsored Symposium with Lunch: Join the Digital Eye Care Revolution</td>
<td>ASTOR BALLROOM 7</td>
</tr>
<tr>
<td>2:15 PM – 3:30 PM</td>
<td>Rapid Fire Medical Student Paper Session</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
<tr>
<td>3:45 PM – 4:45 PM</td>
<td>Corporate Sponsored Symposium with Refreshments: Practical Considerations in the Management of VKC: A Case-Based Discussion</td>
<td>ASTOR BALLROOM 7</td>
</tr>
<tr>
<td>5:00 PM – 6:00 PM</td>
<td>Corporate Sponsored Symposium with Refreshments: Hot Topics in Pediatric Myopia</td>
<td>ASTOR BALLROOM 7</td>
</tr>
<tr>
<td>6:30 PM – 10:00 PM</td>
<td>Closing Reception featuring the Children’s Eye Foundation of AAPOS Celebration</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
</tbody>
</table>

**Sunday, April 2**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM – 10:40 AM</td>
<td>Registration</td>
<td>NORTH REGISTRATION 5</td>
</tr>
<tr>
<td>7:30 AM – 8:00 AM</td>
<td>Poster Removal (2nd Set)</td>
<td>LYCEUM COMPLEX 5</td>
</tr>
<tr>
<td>7:30 AM – 9:00 AM</td>
<td>Difficult Problems Non-Strabismus Workshop</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
<tr>
<td>9:10 AM – 10:40 AM</td>
<td>Difficult Problems Strabismus Workshop</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
</tbody>
</table>

## QUICK REFERENCE

### Meeting Attendees Continental Breakfast
- **Wednesday, April 1**: 7:00 AM – 5:00 PM (Alternate location this day only: 5th Floor Coat Room)
- **Thursday – Sunday**: 6:30 AM – 8:00 AM

### Registered Spouse & Guest Hospitality Suite
- **Thursday – Saturday**: 8:00 AM – 10:00 AM Continental Breakfast; Coffee & Tea available until 12:00 PM

### Poster Viewing
- **Wednesday**: 4:00 PM – 6:00 PM
- **Thursday – Saturday**: 6:30 AM – 8:00 PM

### Exhibitor Hours
- **Thursday**: 6:30 AM – 7:55 AM, 10:05 AM – 11:05 AM, 1:15 PM – 2:15 PM, 4:30 PM – 6:30 PM Reception
- **Friday**: 6:30 AM – 7:00 AM, 9:45 AM – 10:30 AM, 11:45 AM – 1:15 PM
- **Saturday**: 6:30 AM – 8:00 AM, 9:50 AM – 10:50 AM

### Speaker Ready Room
- **Wednesday**: 7:00 AM – 5:00 PM
- **Thursday**: 6:30 AM – 4:30 PM
- **Friday**: 6:30 AM – 4:30 PM
- **Saturday**: 7:00 AM – 5:00 PM
- **Sunday**: 6:30 AM – 10:30 AM
Meeting App
Download the Eventessential App to your device:

When the app is installed, open the AAPOS meeting site here:

Abstracts, Posters, and Workshop Handouts
The meeting program with abstracts, posters, and workshop handouts can be viewed and downloaded on the AAPOS 2023 Annual Meeting website.

Scan the QR code above.

OR
Go to www.aapos.org and click on the Meetings tab. Then select the 2023 Annual Meeting. You will find the Scientific Meeting Attendee Hub in the list of Quick Links.

AAPOS Board of Directors

President
Robert S. Gold, MD

Executive Vice President
Christie L. Morse, MD

Vice President
Deborah M. Alcorn, MD

Vice President Elect
Sean P. Donahue, MD, PhD

Past President
Oscar A. Cruz, MD

Secretary/Treasurer
Barry N. Wasserman, MD

Secretary for Program
David K. Wallace, MD, MPH

Councilor to AAO
Scott A. Larson, MD

Councilor to AAO
Stacey J. Kruger, MD

Director-at-Large
Yasmin S. Bradfield, MD

Director-at-Large
Catherine O. Jordan, MD

Director-at-Large
Tina Rutar, MD

CEF of AAPOS Advisory Board Chairman
Pamela E. Williams, MD

Public Director at Large
Dorothy Weinstein

Program Committee

Chair
David K. Wallace, MD, MPH

Rahul Bholia, MD

Yasmin S. Bradfield, MD

Hilda Capo, MD

Kimberly Merrill, CO

Leah Reznick, MD

M. Edward Wilson, Jr., MD

Staff

Executive Director of AAPOS
Danielle Bogert McKay

Executive Director of the Children’s Eye Foundation of AAPOS | IPOSC
Megan Pfefferle

Scientific Program Coordinator
Maria A. Schweers, CO

Membership & Communications Manager
Christina Scott

Meetings & Marketing Manager
Ashley Crunstedt, CMP

Program Manager for CEF of AAPOS | IPOSC
Christine Keightley

Manager of Program Administration
Kevin DuFour

The Apple Logo is a trademark of Apple Inc. Google Play and the Google Play logo are trademarks of Google LLC.
<table>
<thead>
<tr>
<th>AAPOS Past Presidents</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Marshall M. Parks, MD</td>
<td></td>
</tr>
<tr>
<td>Lake Tahoe, NV</td>
<td></td>
</tr>
<tr>
<td>1974-1975</td>
<td></td>
</tr>
<tr>
<td>Robert D. Reinecke, MD</td>
<td></td>
</tr>
<tr>
<td>Bermuda</td>
<td></td>
</tr>
<tr>
<td>1975-1976</td>
<td></td>
</tr>
<tr>
<td>Jack C. Crawford, MD</td>
<td></td>
</tr>
<tr>
<td>San Francisco, CA</td>
<td></td>
</tr>
<tr>
<td>1976-1977</td>
<td></td>
</tr>
<tr>
<td>Robison D. Harley, MD</td>
<td></td>
</tr>
<tr>
<td>Williamsburg, VA</td>
<td></td>
</tr>
<tr>
<td>1977-1978</td>
<td></td>
</tr>
<tr>
<td>David S. Friendly, MD</td>
<td></td>
</tr>
<tr>
<td>Toronto, Canada</td>
<td></td>
</tr>
<tr>
<td>1978-1979</td>
<td></td>
</tr>
<tr>
<td>Phillip Knapp, MD</td>
<td></td>
</tr>
<tr>
<td>San Diego, CA</td>
<td></td>
</tr>
<tr>
<td>1979-1980</td>
<td></td>
</tr>
<tr>
<td>Webb Chamberlain, MD</td>
<td></td>
</tr>
<tr>
<td>Orlando, FL</td>
<td></td>
</tr>
<tr>
<td>1980-1981</td>
<td></td>
</tr>
<tr>
<td>Arthur Jampolsky, MD</td>
<td></td>
</tr>
<tr>
<td>Monterey, CA</td>
<td></td>
</tr>
<tr>
<td>1981-1982</td>
<td></td>
</tr>
<tr>
<td>Alfred G. Smith, MD</td>
<td></td>
</tr>
<tr>
<td>Vancouver, BC</td>
<td></td>
</tr>
<tr>
<td>1982-1983</td>
<td></td>
</tr>
<tr>
<td>John A. Pratt-Johnson, MD</td>
<td></td>
</tr>
<tr>
<td>Vail, CO</td>
<td></td>
</tr>
<tr>
<td>1983-1984</td>
<td></td>
</tr>
<tr>
<td>Eugene R. Folk, MD</td>
<td></td>
</tr>
<tr>
<td>Puerto Rico</td>
<td></td>
</tr>
<tr>
<td>1984-1985</td>
<td></td>
</tr>
<tr>
<td>Thomas D. France, MD</td>
<td></td>
</tr>
<tr>
<td>Maui, HI</td>
<td></td>
</tr>
<tr>
<td>1985-1986</td>
<td></td>
</tr>
<tr>
<td>Gunter K. von Noorden, MD</td>
<td></td>
</tr>
<tr>
<td>Scottsdale, AZ</td>
<td></td>
</tr>
<tr>
<td>1986-1987</td>
<td></td>
</tr>
<tr>
<td>Arthur L. Rosenbaum, MD</td>
<td></td>
</tr>
<tr>
<td>Boston, MA</td>
<td></td>
</tr>
<tr>
<td>1987-1988</td>
<td></td>
</tr>
<tr>
<td>William E. Scott, MD</td>
<td></td>
</tr>
<tr>
<td>Kiawah, SC</td>
<td></td>
</tr>
<tr>
<td>1988-1989</td>
<td></td>
</tr>
<tr>
<td>Eugene M. Helveston, MD</td>
<td></td>
</tr>
<tr>
<td>Lake George, NY</td>
<td></td>
</tr>
<tr>
<td>1989-1990</td>
<td></td>
</tr>
<tr>
<td>Henry S. Metz, MD</td>
<td></td>
</tr>
<tr>
<td>Montreal, Canada</td>
<td></td>
</tr>
<tr>
<td>1990-1991</td>
<td></td>
</tr>
<tr>
<td>John T. Flynn, MD</td>
<td></td>
</tr>
<tr>
<td>Maui, HI</td>
<td></td>
</tr>
<tr>
<td>1991-1992</td>
<td></td>
</tr>
<tr>
<td>Forrest D. Ellis, MD</td>
<td></td>
</tr>
<tr>
<td>Palm Springs, CA</td>
<td></td>
</tr>
<tr>
<td>1992-1993</td>
<td></td>
</tr>
<tr>
<td>David L. Guyton, MD</td>
<td></td>
</tr>
<tr>
<td>Vancouver, BC</td>
<td></td>
</tr>
<tr>
<td>1993-1994</td>
<td></td>
</tr>
<tr>
<td>Malcolm L. Mazow, MD</td>
<td></td>
</tr>
<tr>
<td>Orlando, FL</td>
<td></td>
</tr>
<tr>
<td>1994-1995</td>
<td></td>
</tr>
<tr>
<td>John D. Baker, MD</td>
<td></td>
</tr>
<tr>
<td>Snowbird, UT</td>
<td></td>
</tr>
<tr>
<td>1995-1996</td>
<td></td>
</tr>
<tr>
<td>Earl A. Palmer, MD</td>
<td></td>
</tr>
<tr>
<td>Charleston, SC</td>
<td></td>
</tr>
<tr>
<td>1996-1997</td>
<td></td>
</tr>
<tr>
<td>John W. Simon, MD</td>
<td></td>
</tr>
<tr>
<td>Palm Springs, CA</td>
<td></td>
</tr>
<tr>
<td>1997-1998</td>
<td></td>
</tr>
<tr>
<td>Marilyn T. Miller, MD</td>
<td></td>
</tr>
<tr>
<td>Toronto, Canada</td>
<td></td>
</tr>
<tr>
<td>1998-1999</td>
<td></td>
</tr>
<tr>
<td>Maynard B. Wheeler, MD</td>
<td></td>
</tr>
<tr>
<td>San Diego, CA</td>
<td></td>
</tr>
<tr>
<td>1999-2000</td>
<td></td>
</tr>
<tr>
<td>Albert W. Biglan, MD</td>
<td></td>
</tr>
<tr>
<td>Orlando, FL</td>
<td></td>
</tr>
<tr>
<td>2000-2001</td>
<td></td>
</tr>
<tr>
<td>Jane D. Kivlin, MD</td>
<td></td>
</tr>
<tr>
<td>Seattle, WA</td>
<td></td>
</tr>
<tr>
<td>2001-2002</td>
<td></td>
</tr>
<tr>
<td>Joseph H. Calhoun, MD</td>
<td></td>
</tr>
<tr>
<td>Waikoloa, HI</td>
<td></td>
</tr>
<tr>
<td>2002-2003</td>
<td></td>
</tr>
<tr>
<td>George S. Ellis, Jr, MD</td>
<td></td>
</tr>
<tr>
<td>Washington, DC</td>
<td></td>
</tr>
<tr>
<td>2003-2004</td>
<td></td>
</tr>
<tr>
<td>Susan H. Day, MD</td>
<td></td>
</tr>
<tr>
<td>Orlando, FL</td>
<td></td>
</tr>
<tr>
<td>2004-2005</td>
<td></td>
</tr>
<tr>
<td>Michael X. Repka, MD, MBA</td>
<td></td>
</tr>
<tr>
<td>Keystone, CO</td>
<td></td>
</tr>
<tr>
<td>2005-2006</td>
<td></td>
</tr>
<tr>
<td>Christie L. Morse, MD</td>
<td></td>
</tr>
<tr>
<td>Seattle, WA</td>
<td></td>
</tr>
<tr>
<td>2006-2007</td>
<td></td>
</tr>
<tr>
<td>Edward G. Buckley, MD</td>
<td></td>
</tr>
<tr>
<td>Washington, DC</td>
<td></td>
</tr>
<tr>
<td>2007-2008</td>
<td></td>
</tr>
<tr>
<td>Bradley C. Black, MD</td>
<td></td>
</tr>
<tr>
<td>San Francisco, CA</td>
<td></td>
</tr>
<tr>
<td>2008-2009</td>
<td></td>
</tr>
<tr>
<td>C. Gail Summers, MD</td>
<td></td>
</tr>
<tr>
<td>Orlando, FL</td>
<td></td>
</tr>
<tr>
<td>2009-2010</td>
<td></td>
</tr>
<tr>
<td>David A. Plager, MD</td>
<td></td>
</tr>
<tr>
<td>San Diego, CA</td>
<td></td>
</tr>
<tr>
<td>2010-2011</td>
<td></td>
</tr>
<tr>
<td>Steven E. Rubin, MD</td>
<td></td>
</tr>
<tr>
<td>San Antonio, TX</td>
<td></td>
</tr>
<tr>
<td>2011-2012</td>
<td></td>
</tr>
<tr>
<td>K. David Epley, MD</td>
<td></td>
</tr>
<tr>
<td>Boston, MA</td>
<td></td>
</tr>
<tr>
<td>2012-2013</td>
<td></td>
</tr>
<tr>
<td>Sharon F. Freedman, MD</td>
<td></td>
</tr>
<tr>
<td>Palm Springs, CA</td>
<td></td>
</tr>
<tr>
<td>2013-2014</td>
<td></td>
</tr>
<tr>
<td>Sherwin J. Isenberg, MD</td>
<td></td>
</tr>
<tr>
<td>New Orleans, LA</td>
<td></td>
</tr>
<tr>
<td>2014-2015</td>
<td></td>
</tr>
<tr>
<td>M. Edward Wilson, Jr, MD</td>
<td></td>
</tr>
<tr>
<td>Vancouver, Canada</td>
<td></td>
</tr>
<tr>
<td>2015-2016</td>
<td></td>
</tr>
<tr>
<td>Robert E. Wiggins, JR, MD, MHA</td>
<td></td>
</tr>
<tr>
<td>Nashville, TN</td>
<td></td>
</tr>
<tr>
<td>2016-2017</td>
<td></td>
</tr>
<tr>
<td>Derek T. Sprunger, MD</td>
<td></td>
</tr>
<tr>
<td>Washington, DC</td>
<td></td>
</tr>
<tr>
<td>2017-2018</td>
<td></td>
</tr>
<tr>
<td>R. Michael Siatkowski, MD</td>
<td></td>
</tr>
<tr>
<td>San Diego, CA</td>
<td></td>
</tr>
<tr>
<td>2018-2019</td>
<td></td>
</tr>
<tr>
<td>Jane C. Edmond, MD</td>
<td></td>
</tr>
<tr>
<td>Austin, TX / Cancelled due to COVID</td>
<td></td>
</tr>
<tr>
<td>2019-2020</td>
<td></td>
</tr>
<tr>
<td>Katherine A. Lee, MD, PhD</td>
<td></td>
</tr>
<tr>
<td>Virtual</td>
<td></td>
</tr>
<tr>
<td>2020-2021</td>
<td></td>
</tr>
<tr>
<td>Oscar A. Cruz, MD</td>
<td></td>
</tr>
<tr>
<td>Scottsdale, AZ</td>
<td></td>
</tr>
<tr>
<td>2021-2022</td>
<td></td>
</tr>
</tbody>
</table>
# AAPOS Committee/Task Force/Group Meetings

<table>
<thead>
<tr>
<th>Committee</th>
<th>Date</th>
<th>Time</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Affairs Committee</td>
<td>Wednesday, March 29</td>
<td>3:00 PM – 4:30 PM</td>
<td>ODETS 4</td>
</tr>
<tr>
<td>Solar Eclipse Task Force</td>
<td>Wednesday, March 29</td>
<td>3:00 PM – 4:00 PM</td>
<td>GILBERT 4</td>
</tr>
<tr>
<td>Adult Strabismus Committee</td>
<td>Wednesday, March 29</td>
<td>4:30 PM – 5:30 PM</td>
<td>BARRYMORE 9</td>
</tr>
<tr>
<td>Fellowship Directors Group</td>
<td>Wednesday, March 29</td>
<td>4:30 PM – 5:30 PM</td>
<td>CANTOR 9</td>
</tr>
<tr>
<td>Pediatric Uveitis Committee</td>
<td>Wednesday, March 29</td>
<td>4:30 PM – 6:00 PM</td>
<td>GILBERT 4</td>
</tr>
<tr>
<td>IPOSC Council</td>
<td>Wednesday, March 29</td>
<td>4:30 PM – 6:00 PM</td>
<td>ODETS 4</td>
</tr>
<tr>
<td>Genetic Eye Disorder Committee</td>
<td>Wednesday, March 29</td>
<td>5:00 PM – 6:00 PM</td>
<td>ZIEGFELD 4</td>
</tr>
<tr>
<td>IPOSC Advisory Board</td>
<td>Thursday, March 30</td>
<td>6:30 AM – 8:00 AM</td>
<td>ODETS 4</td>
</tr>
<tr>
<td>Young Ophthalmologist Committee</td>
<td>Thursday, March 30</td>
<td>6:45 AM – 7:45 AM</td>
<td>GILBERT 4</td>
</tr>
<tr>
<td>Learning Disability and Vision Therapy Committee</td>
<td>Thursday, March 30</td>
<td>7:00 AM – 8:00 AM</td>
<td>CANTOR 9</td>
</tr>
<tr>
<td>Recruitment Task Force</td>
<td>Thursday, March 30</td>
<td>7:00 AM – 8:00 AM</td>
<td>JOLSON 9</td>
</tr>
<tr>
<td>Research Committee</td>
<td>Thursday, March 30</td>
<td>7:00 AM – 8:00 AM</td>
<td>ZIEGFELD 4</td>
</tr>
<tr>
<td>International Program Committee</td>
<td>Thursday, March 30</td>
<td>4:00 PM – 5:00 PM</td>
<td>GILBERT 4</td>
</tr>
<tr>
<td>Diversity, Equity, and Inclusion (DEI) Task Force</td>
<td>Friday, March 31</td>
<td>12:00 PM – 1:00 PM</td>
<td>CANTOR 9</td>
</tr>
<tr>
<td>Legislative Committee</td>
<td>Friday, March 31</td>
<td>12:00 PM – 12:45 PM</td>
<td>GILBERT 4</td>
</tr>
<tr>
<td>J AAPOS Editorial Board Meeting</td>
<td>Friday, March 31</td>
<td>12:00 PM – 1:00 PM</td>
<td>ZIEGFELD 4</td>
</tr>
<tr>
<td>Membership Committee</td>
<td>Friday, March 31</td>
<td>12:00 PM – 1:00 PM</td>
<td>JUILLIARD 4</td>
</tr>
<tr>
<td>Vision Screening Committee</td>
<td>Friday, March 31</td>
<td>12:00 PM – 1:00 PM</td>
<td>ODETS 4</td>
</tr>
<tr>
<td>Digital Education Committee</td>
<td>Friday, March 31</td>
<td>12:15 PM – 1:00 PM</td>
<td>JOLSON 9</td>
</tr>
<tr>
<td>Audit Committee</td>
<td>Friday, March 31</td>
<td>5:30 PM – 7:00 PM</td>
<td>JOLSON 9</td>
</tr>
<tr>
<td>Public Information Committee</td>
<td>Friday, March 31</td>
<td>5:30 PM – 6:30 PM</td>
<td>ODETS 4</td>
</tr>
<tr>
<td>Pediatric Low Vision Rehabilitation Committee</td>
<td>Saturday, April 1</td>
<td>1:15 PM – 2:15 PM</td>
<td>JOLSON 9</td>
</tr>
<tr>
<td>Professional Education Committee</td>
<td>Saturday, April 1</td>
<td>1:15 PM – 2:15 PM</td>
<td>ODETS 4</td>
</tr>
<tr>
<td>Technology Committee</td>
<td>Saturday, April 1</td>
<td>3:45 PM – 4:30 PM</td>
<td>GILBERT 4</td>
</tr>
</tbody>
</table>
The purpose of the American Association for Pediatric Ophthalmology and Strabismus’ (AAPOS) educational activities is to present pediatric ophthalmologists and strabismologists with the highest quality lifelong learning opportunities that promote improvement and change in physician practices, performance, or competence through joint sponsorship with Medical Education Resources (MER), thus enabling such physicians to maintain or improve the competence and professional performance needed to provide the best possible eye care for their patients.

Due to the nature of the subspecialty, the largest component of AAPOS’ educational program focuses on strabismus, amblyopia, visual development, and binocular function. However, the content also emphasizes the other Practice Emphasis Areas (PEAs) that have been defined by the American Board of Ophthalmology (ABO) for their Maintenance of Certification (MOC) process with emphasis on these disease processes in children, and adults with strabismus and eye movement disorders. These include:

- Cataract and Anterior Segment
- Cornea and External Disease
- Glaucoma
- Neuro-ophthalmology
- Oculoplastics and Orbit
- Refractive Management and Intervention
- Retina and Vitreous
- Uveitis

Additionally, AAPOS’ educational program provides content for topics such as effective management of a pediatric ophthalmology practice, medical ethics, risk management, and other areas deemed relevant by the needs of the membership.

Types of educational activities provided at the annual AAPOS meeting include:

- Didactic lectures
- Original research in the form of free papers and posters
- In-depth focused workshops and symposia on specific topics
- Small-group discussion opportunities with speakers and researchers

All meeting content is reviewed by the AAPOS Program Committee and Secretary for Program with respect to education quality and utility. Members are routinely queried regarding their assessment of quality and content, as well as needs for future meetings, and comments are reviewed by the Program Committee and Board of Directors, with necessary changes incorporated into future programs.

The expected result of AAPOS’ educational activities is a broad array of ophthalmic knowledge that contributes to the lifelong learning of members and advances physician performance or competence. Ongoing assessment of the impact of AAPOS’ educational program is important in determining modifications to existing activities and the development of new activities. Specific expected results include increased knowledge across the ophthalmic community, activities designed to increase competence and performance with evidence-based standards, current practices, and methods of diagnosis, therapies, and disease prevention.
CONTINUING MEDICAL EDUCATION

This activity is jointly provided by Medical Education Resources and AAPOS.

Accreditation Statement
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint provider-ship of Medical Education Resources and the American Association for Pediatric Ophthalmology and Strabismus. Medical Education Resources is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation Statement
Annual Meeting: Medical Education Resources designates this live activity for a maximum of 30.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

SEC Pre-Meeting: Medical Education Resources designates this live activity for a maximum of 7.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Upon completion of this activity, 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/discuss improved techniques, compare/contrast methods, and review clinical research results and advances in the field to provide the best possible treatment options and outcomes for patients
• Describe aspects of professionalism that will assist in the practice of pediatric ophthalmology and strabismus
• Describe new techniques of diagnosis and surgery pertinent to pediatric ophthalmology and strabismus

Specific Learning Objectives

1. Cite most recent data from randomized controlled clinical trials in the diagnosis and management of amblyopia.
2. Describe new preoperative evaluation techniques and surgical strategies to improve outcomes in patients with comitant, non-paretic strabismus.
3. Compare new surgical techniques for complicated strabismus (restrictive, paretic, miswiring syndromes, scarring, incomitance, etc) to improve outcomes and decrease reoperation rates.
4. Outline up-to-date patient selection criteria to identify children undergoing cataract surgery who should receive intraocular lenses.
5. Recognize new treatment techniques for pediatric glaucoma, retinal disease, and oculoplastic and orbital disease and make appropriate sub-specialty referrals for such cases.
6. Describe new treatment strategies to decrease the incidence of significant visual loss from severe ROP.
7. Recognize pediatric ophthalmic disease of neurologic origin and describe the process for appropriate referrals to pediatric neurology.
8. Utilize the latest resources for discussion of visual development, epidemiology of pediatric eye disease, learning disabilities, and vision screening strategies with other physicians and members of the lay community.
9. Identify current coding rules and regulations for pediatric eye diseases.
10. Utilize strategies that improve pediatric ophthalmology practice financial performance as well as physician and employee interactions and morale.
11. Recognize current laboratory research with potential for translation to pediatric ophthalmology.
12. Describe the role of OCT imaging in the diagnosis and treatment of optic nerve, retinal and anterior segment diseases.
13. Utilize the latest resources for the treatment of refractive errors and prevention of myopia progression.

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 judgement 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 such claims are asserted by a physician or any other person. Please note: The AAPOS requires all presenters and/or authors to disclose any drug or device that is not approved for use by the FDA in the manner discussed during any oral presentation and/or on all written materials.
FINANCIAL DISCLOSURES

The Program Committee reviews all financial interests for all authors on all abstracts. All authors are required to disclose any real or apparent conflicts of interest with ineligible companies (previously known as commercial interests) whose products or services may be mentioned in the activity. The ACCME considers financial relationships to create conflicts of interest in CME when individuals have both a financial relationship with an ineligible company and the opportunity to affect the content of CME about the products or services of that commercial interest.

All authors and AAPOS staff not listed have no relevant financial relationships to disclose.

Medical Education Resources (MER) and the American Association for Pediatric Ophthalmology and Strabismus (AAPOS) have determined that a financial relationship should not restrict expert scientific, clinical, or non-clinical presentation or publication, provided that appropriate disclosure of such relationship is made. As an ACCME accredited provider of CME, MER and AAPOS Joint Provider seeks to ensure balance, independence, objectivity, and scientific rigor in all individual or jointly provided CME activities.

Companies that are ineligible to be accredited by the ACCME System (known as ineligible companies) are those whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients.

The following individuals have relevant financial interests to disclose:

<table>
<thead>
<tr>
<th>Category (Code) – Description</th>
<th>Author/Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consultant/Advisor (C)</td>
<td>Consultant fee, paid advisory boards or fees for attending a meeting</td>
</tr>
<tr>
<td>Employee (E)</td>
<td>Hired to work for compensation or received a W2 from a company</td>
</tr>
<tr>
<td>Lecture Fees (L)</td>
<td>Lecture fees or honoraria, travel fees or reimbursements when speaking at the invitation of a commercial entity</td>
</tr>
<tr>
<td>Equity Owner (O)</td>
<td>Ownership or controlling interest in a company, other than stock</td>
</tr>
<tr>
<td>Patents/Royalty (P)</td>
<td>Beneficiary of patents and/or royalties for intellectual property</td>
</tr>
<tr>
<td>Grant Support (S)</td>
<td>Grant support, contracted research, or other financial support from all sources, including research support from government agencies (e.g., NIH), foundations, device manufacturers, and/or pharmaceutical companies</td>
</tr>
<tr>
<td>Shareholder/Ownership Interest (SH)</td>
<td>Shareholder or ownership interest</td>
</tr>
</tbody>
</table>

**AAPOS Program Committee**

Bhola, Rahul  
C, P – Graybug

Wilson, Edward  
C – Alcon  
S – EyePoint  
S – Ocular Therapeutix  
S – Ophtec  
S – Travere

**Oral Paper Presentations**

Belkin, Michael  
(presented by Wygnanski-Jaffe, Tamara)  
C, O, P, SH – Novasight  
C, O, P, SH – Belkin Vision  
C, O, P, SH – Springvisionbiomed  
SH – Biogencell

Orge, Faruk  
S – Regeneron

Thompson, Benjamin  
(presented by Jost, Reed)  
C, P – Novartis  
C, S – Canadian Institutes of Health Research

Wygnanski-Jaffe, Tamara  
C – Novasight (non-paid advisory board)  
C – Go Check Kids

**Poster Presentations**

Campbell, J. Peter  
(presented by Campbell, Peter; Coyner, Aaron; Ostmo, Susan; Young, Benjamin)  
S – Genentech  
O, S – Siloam Vision  
C – Boston Al

Chan, RV Paul  
(presented by Campbell, Peter; Coyner, Aaron; Young, Benjamin)  
O – Siloam Vision  
C – Alcon  
C – Genentech

Collins, Megan  
C – Warby Parker Impact Foundation

Coyner, Aaron  
(presented by Coyner, Aaron; Campbell, Peter; Ostmo, Susan; Young, Benjamin)  
P – Siloam Vision  
P – Boston Al Lab

Dalmann-Noor, Anneget  
(presented by Dalmann-Noor, Anneget; Lebron, Keyla)  
C – Santen

Donahue, Sean  
(presented by Groth, Sylvia)  
C, O – Olleys  
C – Gensight

Freedman, Sharon  
(presented by Freedman, Sharon; Stahl, Erin)  
C – Travere Therapeutics, Inc  
C – Olleys Bio, Inc

Gaier, Eric  
(presented by Gaier, Eric; Gulani, Aishkishwariya; Munsell, Mary; Oke, Isdin)  
C – Sante  
O – Siloam Vision  
C, O, P – Luminopia

Kalpathy-Cramer, Jayashree  
(presented by Campbell, Peter; Coyner, Aaron)  
C – Siloam Vision  
S – Genentech  
S – GE  
P – Boston Al

Lebron, Keyla  
C – Santen

Lederman, Carolyn  
C, L – Visioneering Technologies

Nihalani-Gangwani, Bharti  
(presented by Freedman, Sharon; Stahl, Erin)  
C, S – Travere Therapeutics, Inc

Repka, Michael  
(presented by Oke, Isdin)  
C, O, P – Luminopia  
C – Abbvie  
S – Objective Acuity Limited

Stahl, Erin  
(presented by Stahl, Erin; Freedman, Sharon)  
L, S – Travere Therapeutics, Inc  
C – Sydneysis  
C – Santen  
S – National Eye Institute

VanderVeen, Deborah  
(presented by Freedman, Sharon; Stahl, Erin)  
L, S – Travere Therapeutics, Inc  
C – National Eye Institute  
S – Ocular Therapeutix  
C, S – Ophthe

Wong, Rupa  
(presented by Luo, Emi Lin)  
L – CooperVision  
C – Vyluma

**Workshop Presentations**

Fung, Simon  
C – Santen

**AAPOS 2023 ANNUAL MEETING PROGRAM BOOK**

9
THE FRANK D. COSTENBADER LECTURE

The Frank D. Costenbader Lecture was inaugurated in 1974 at the Annual Meeting of the Costenbader Society to honor Dr. Costenbader. The American Association for Pediatric Ophthalmology, later the American Association for Pediatric Ophthalmology and Strabismus was created at this meeting. From its inception, AAPOS undertook to sponsor the Costenbader Lecture as the keynote presentation at its annual meeting. Due to failing health, Dr. Costenbader was unable to attend any of the lectures which honored him.

Dr. Costenbader was born and educated in Virginia and was a true Virginia Gentleman. He received his undergraduate education at Hampton-Sydney College, his medical degree from the University of Virginia and completed his residency at the Episcopal Eye, Ear, and Throat Hospital in Washington, DC. Dr. Costenbader started practice in 1932 in the depression and began a lifetime commitment to teaching, which set the stage for the tremendous influence he had on ophthalmology when he began to only see children. In 1933, Dr. Costenbader was appointed Instructor in Ophthalmology at Georgetown University and he became Special Lecturer and Conferee there in 1964. He also was on the faculty of George Washington University advancing to the rank of Clinical Professor. He was known for his enormous patience, generous with his time, always offering complete answers to even the weakest questions, and he rarely lost his equanimity. He changed the Children's Hospital Clinic from one of service only to teaching and clinical care. He committed a full day a week to teaching for many years, spending Tuesday afternoons at Children’s and another half day a week at the Episcopal EET Hospital. In 1946, the Episcopal residents started rotating at Children’s, and he was able to focus his teaching efforts there.

Dr. Costenbader is referred to as the Father of Pediatric Ophthalmology. That designation is because of his decision in 1943 to limit his practice to pediatric ophthalmology, and he was the first ophthalmologist to do so. He moved his office to a stately brownstone townhouse on 22nd Street in Washington, DC. His waiting room was referred to as Dr. Costenbader’s living room by many of his young patients because of its small furniture. He had two exam rooms on the first floor, which he used, and there were additional exam rooms on the lower level for his orthoptist, Ms. Dorothy Bair, and associates, fellows, and preceptors. It was a center for wonderful patient care and the first real education or training center for pediatric ophthalmology. His exam tools were limited. Dr. Costenbader had a picture of an airplane and a phone on a rotating box at the end of his room and kids would beg to come in and see his airplane and talk to him about it. The patient’s examination chair was a kitchen chair placed on a small wooden platform.

When asked why he limited his practice to pediatrics, the first thing Dr. Costenbader would say was that kids are just so much more fun. He also was fascinated with the eye problems of children and at that time, ophthalmologists interested in strabismus were more interested in adults and older children and in cosmetic alignment. Dr. Costenbader was an advocate for children. His concern for their health and the financial welfare of families in providing for the health of their children led him to establish and financially support the Eye Fund at Children’s Hospital to pay for indigent patient surgery. This fund is now used to support the training program at the Children’s National Medical Center in Washington, DC.

Continuing with his concern for providing for children’s health care, he was co-founder of the Medical Service Plan (today Blue Shield) of the District of Columbia and was the first president from 1946 to 1951. He remained on the board for many years. In addition, he started having parents be with their child in the anesthesia induction room before surgery, he eliminated bandages on eyes following strabismus surgery, and he changed strabismus surgery from two inpatient nights to same-day surgery. Dr. Costenbader was Chief of Ophthalmology at Children’s Hospital of Washington, DC, now The Children’s National Medical Center, from 1938 to 1965. He had a remarkable effect on children’s eye care and children’s health in general.

This lecture memorializes the man who had the foresight and the courage to begin a subspecialty in ophthalmology and the talent and dedication to train and mold the next generation according to his ideals.

2023 HONOR AWARDS

Thank you for your dedication and distinguished service to AAPOS.

Lifetime Achievement Awards
- David G. Hunter, MD, PhD
- Amy K. Hutchinson, MD

Senior Honor Awards
- Sylvia R. Kodsi, MD
- David G. Morrison, MD

Honor Awards
- Raymond G. Areaux Jr, MD
- John E. Bishop, MD
- Lisa Bohra, MD
- Alfred J. Cossari, MD
- Natario L. Couser, MD
- Lauren C. Ditta, MD
- Sergul A. Erzurum, MD
- Richard P. Golden, MD
- Jing Jin, MD, PhD
- Catherine O. Jordan, MD
- Courtney Lynn Kraus, MD
- Bharti R. Nihalani-Gangwani, MD
- Ankoor S. Shah, MD, PhD

Thank you for your dedication and distinguished service to AAPOS.
PAST COSTENBADER LECTURERS

1974  Los Angeles
Marshall M. Parks, MD

1975  Lake Tahoe
Robert N. Shaffer, MD

1976  Bermuda
Lorenz E. Zimmerman, MD

1977  San Francisco
T. Keith Lyle, MD

1978  Williamsburg
Jules Francois, MD

1979  Toronto
Robison D. Harley, MD

1980  San Diego
David G. Cogan, MD

1981  Orlando
Philip Knapp, MD

1982  Monterey
Joseph Lang, MD

1983  Vancouver
Jack C. Crawford, MD

1984  Vail
Gunter K. von Noorden, MD

1985  Puerto Rico
Arthur J. Jampolsky, MD

1986  Maui
Robert M. Ellsworth, MD

1987  Scottsdale
John E. Wright, MD

1988  Boston
Alan B. Scott, MD

1989  Kiawah
Kenneth C. Swan, MD

1990  Lake George
John T. Flynn, MD

1991  Montreal
John A. Pratt-Johnson, MD

1992  Maui
Eugene M. Helveston, MD

1993  Palm Springs
Henry S. Metz, MD

1994  Vancouver
William E. Scott, MD

1995  Orlando
Eugene R. Folk, MD

1996  Snowbird
Marilyn T. Miller, MD

1997  Charleston
Robert D. Reinecke, MD

1998  Palm Springs
David L. Guyton, MD

1999  Toronto
Malcolm L. Mazow, MD

2000  San Diego
David R. Stager, Sr., MD

2001  Orlando
Forrest Daryel Ellis, MD

2002  Seattle
Creig S. Hoyt, MD

2003  Hawaii
Burton J. Kushner, MD

2004  Washington, DC
Arthur L. Rosenbaum, MD

2005  Orlando
Albert W. Biglan, MD

2006  Keystone
Earl A. Palmer, MD

2007  Seattle
John D. Baker, MD

2008  Washington, DC
Edward G. Buckley, MD

2009  San Francisco
Richard A. Saunders, MD

2010  Orlando
A. Linn Murphree, MD

2011  San Diego
Susan H. Day, MD

2012  San Antonio
Michael X. Repka, MD

2013  Boston
M. Edward Wilson, MD

2014  Palm Springs
John F. O’Neill, MD

2015  New Orleans
David S. Walton, MD

2016  Vancouver
Edward L. Raab, MD

2017  Nashville
Steven M. Archer, MD

2018  Washington, DC
Elias I Traboulsi, MD

2019  San Diego
David A. Plager, MD

2020  Cancelled
due to COVID

2021  Virtual
Sharon F. Freedman, MD

2022  Scottsdale
David G. Hunter, MD, PhD
49th Annual Frank D. Costenbader Lecturer

Scott R. Lambert, MD
What We Have Learned from the Infant Aphakia Treatment Study
Thursday, March 30, 2023 • 8:25 AM – 8:50 AM

Dr. Scott R. Lambert was born in Ames, Iowa. He spent his formative years in Wisconsin and Northern California. He graduated from Stanford University in 1979 where he met his wife Elizabeth Wheatley. They were married a few weeks before he started medical school at Yale University. After completing medical school, he did a residency in ophthalmology at UC San Francisco where he was inspired by Creig Hoyt to pursue a career in pediatric ophthalmology. He then did a fellowship in pediatric ophthalmology in London with David Taylor and a fellowship in adult strabismus surgery with Art Jampolsky at the Smith-Kettlewell Eye Institute in San Francisco.

In 1988, he joined the faculty at Emory University as a clinician-scientist. His research at Emory focused on factors that influence the growth of an infant’s eye. While at Emory, he received funding from the NEI for the Infant Aphakia Treatment Study and he subsequently served as the principle investigator of the study for 16 years. In 2016, he returned to Stanford University where he is currently a Professor of Ophthalmology and Pediatrics and Chief of Ophthalmology at Stanford Children’s Health.

Dr. Lambert has published over 230 peer-reviewed publications, 74 of them reporting on the results of the Infant Aphakia Treatment Study. He was a co-editor with Chris Lyons for the 5th and 6th editions of Taylor and Hoyt’s Pediatric Ophthalmology and Strabismus. He has also been a co-editor of two books on Congenital Cataracts. He has trained 30 clinical fellows in pediatric ophthalmology and mentored 6 visiting scholars from South Korea and many medical students and residents.

Dr. Lambert has been active in AAPOS his entire career and currently serves on its International Affairs and Global Training & Education committees. Throughout his career, he has had a special interest in global ophthalmology. He currently serves as a co-chair of the Save Infants from Blindness (SIBA) committee for IPOS that is trying to reduce the burden of childhood blindness from retinopathy of prematurity in sub-Saharan Africa. He has also served as the chair of the Pediatric Ophthalmic Technology Assessment Committee for the AAO and has received the AAO and AAPOS Lifetime Achievement Awards.

Dr. Lambert and his wife, Elizabeth, have five adult children — three daughters and two sons and ten grandchildren. Their children currently live in California, Oregon, Utah, and Massachusetts. He enjoys spending time with his family, serving in his church, backpacking, gardening, running, swimming, and writing.
2023 Helveston Lecturer

Michael F. Chiang, MD

*How Research is Evolving the 21st Century Practice of Pediatric Ophthalmology*

Thursday, March 30, 2023 • 11:30 AM – 11:50 AM

Dr. Michael F. Chiang is Director of the National Eye Institute, at the National Institutes of Health in Bethesda, Maryland. By background, he is a pediatric ophthalmologist and is also board-certified in clinical informatics. His research focuses on the interface of biomedical informatics and clinical ophthalmology in areas such as retinopathy of prematurity (ROP), telehealth, artificial intelligence, electronic health records, data science, and genotype-phenotype correlation. He is an Adjunct Investigator at the National Library of Medicine, and his group has published over 250 peer-reviewed papers and developed an assistive artificial intelligence system for ROP that received Breakthrough Status from the U.S. Food and Drug Administration.

Dr. Chiang began at NIH in November 2020. He serves as Co-Chair of a trans-NIH working group for high value data asset sustainability, Chair of a trans-NIH clinical trials infrastructure working group, Co-Chair of a trans-NIH medical imaging working group, Co-Chair of the NIH AIM-AHEAD advisory committee, and Co-Chair of the NIH Common Fund Bridge2AI program. He is a member of the NIH Scientific Data Council. Before coming to NIH, he received a BS in Electrical Engineering and Biology from Stanford University, an MD from Harvard Medical School and the Harvard-MIT Division of Health Sciences and Technology, and an MA in Biomedical Informatics from Columbia University. He completed residency and pediatric ophthalmology fellowship training at the Johns Hopkins Wilmer Eye Institute. Between 2001-2010, he worked at Columbia University, where he was Anne S. Cohen Associate Professor of Ophthalmology & Biomedical Informatics, director of medical student education in ophthalmology, and director of the introductory graduate student course in biomedical informatics. From 2010-2020, he worked at Oregon Health & Science University (OHSU), where he was Knowles Professor of Ophthalmology & Medical Informatics and Clinical Epidemiology, and Associate Director of the Casey Eye Institute. He co-directed an NIH-funded T32 training program in visual science for graduate students and research fellows, as well as an NIH-funded KT2 clinician-scientist program at OHSU.

He previously served as a member of the American Academy of Ophthalmology (AAO) Board of Trustees, Chair of the AAO IRIS Registry Data Analytics Committee, Chair of the AAO Task Force on Artificial Intelligence, Chair of the AAO Medical Information Technology Committee, and on numerous other national and local committees. He currently serves as an Associate Editor for the *Journal of the American Medical Informatics Association* and on the Editorial Board for *Ophthalmology* and the *Asia-Pacific Journal of Ophthalmology*, and is Associate Editor of the textbook *Biomedical Informatics: Computer Applications in Health Care and Biomedicine*. He has previously served as an Associate Editor for the *Journal of the American Association for Pediatric Ophthalmology and Strabismus* and on the Editorial Board for *Ophthalmology Retina*. 

---

AAPOS 2023 ANNUAL MEETING PROGRAM BOOK
2023 Parks Award Recipients – Silver Medalist

Frank Martin, MBBS, FRACS, FRANZCO

Admired for his sound clinical knowledge, unwavering respect and compassion, his unlimited capacity for astute mentorship, and his overarching kindness.

Frank Joseph Martin was born in Budapest, Hungary. His family migrated to Sydney, Australia in 1949. He studied Medicine at the University of Sydney and trained in Ophthalmology at the Prince of Wales Hospital and the Sydney Eye Hospital. In 1971-1972 he undertook a fellowship at the Hospital of the University of Pennsylvania and the Children's Hospital of Philadelphia under the mentorship of Harold Scheie, MD and David Schaffer, MD.

He returned to Sydney after his fellowship and was appointed to the visiting medical staff at the Sydney Eye Hospital and the Royal Alexandra Hospital for Children (Sydney Children's Hospital Network).

Frank is the founding partner of Sydney Ophthalmic Specialists from where he conducts his private practice. Frank also holds an appointment at the University of Sydney as clinical professor in ophthalmology and in paediatrics and child health. He chairs the board of the Children’s Medical Research Institute at Westmead.

Frank has contributed to paediatric ophthalmology nationally and internationally. He is chairman of APSPOS, a past president of the ISA and of IPOS. He has been involved in a number of AAPOS committees and he currently serves as vice chairman of the recruitment taskforce. He has been president of the Royal Australian and New Zealand College of Ophthalmologists (RANZCO) in 1997 and a member of the board of the AAO.

His main area of clinical interest has been in strabismus and amblyopia. He has been a strong advocate for preschool vision screening and was part of the pivotal group that initiated the successful StEPS preschool vision screening program in NSW. Over his career, he has enjoyed watching his paediatric patients grow up and has had the honour of looking after the children of some of his patients, which brings him much joy.

Frank has been involved in teaching medical students, orthoptists, ophthalmology trainees, and fellows, as well as mentoring his younger colleagues in paediatric ophthalmology and strabismus. Frank has had a fundamental impact on many within the professions of ophthalmology and orthoptics within Australia and beyond.

Frank has authored and co-authored over 60 journal articles and six textbook chapters. He has delivered eight named lectures and has been awarded a number of honours including a Member of the Order of Australia, the RANZCO College Medal, the LINKSZ Medal, the Mark Tso Golden Apple Award for teaching, as well as a Secretariat award from the AAO and an honour award from AAPOS. Frank has served as an International Member on the Board of Trustees of the American Academy of Ophthalmology. Many would agree that if there was a prize for kindness and humility, he would have been awarded this one as well.

Frank spends his leisure time reading, playing tennis, coping with the frustrations of golf, and entertaining people with his mischievous personality. He resides with his loving wife Moya in the leafy harbourside suburbs of Sydney and their greatest joy and enduring interest are their family, son Jeremy and daughter Alison, and their six adoring grandchildren.
2023 Parks Award Recipients – Bronze Medalists

**Oscar A. Cruz, MD**

Dr. Oscar A. Cruz is the Anwar Shah Professor of Ophthalmology and Pediatrics at Cardinal Glennon Children’s Hospital and Saint Louis University School of Medicine. He has served as Chairman of the Department of Ophthalmology at Saint Louis University School of Medicine since 2000. Dr. Cruz served as President of the American Association for Pediatric Ophthalmology and Strabismus (AAPOS) 2021-2022. He has received the Lifetime Achievement Award from AAPOS. His service to the American Academy of Ophthalmology (AAO) includes serving on the AAO Council as the AAPOS Councilor. He has received the Senior Achievement Award from the AAO and the Distinguished Service Award. He served on the Board of the Association of University Professors of Ophthalmology (AUPO) for eight years, serving as President in 2016. He is an active member of the Association for Research in Strabismus (Squint Club). Dr. Cruz has authored over 80 peer-reviewed journal publications, many with his residents as co-authors. He is extremely proud that 18 former Saint Louis University Ophthalmology residents are current active members of AAPOS. Oscar is a life-time runner and triathlete. He and his wife, Mary, enjoy their three adult children and two grandchildren.

**Monte A. Del Monte, MD**

Dr. Monte A. Del Monte, MD, Skillman Professor of Pediatric Ophthalmology at the University of Michigan/Kellogg Eye Center, has served as chair of several committees on the American Association for Pediatric Ophthalmology and Strabismus, including the International Affairs Committee, the Membership committee, the nominating committee, the National Children’s Eye Care Foundation Advisory Board, and as a member-at-large of the Board of Directors. His service to the American Academy of Ophthalmology (AAO) included chairing the Section 6 BCSC committee, the Provision Self-Assessment Committee, and the Pediatric Ophthalmology section of the Eye Wiki Editorial Board. He has also served as president of the American Orthoptic Council and the Costenbader Pediatric Ophthalmology Society, Chair of the Certification Committee of the Joint Commission for Allied Health Professionals in Ophthalmology, and has been a member of the Scientific Advisory Committee of the Knights Templar Eye Research Foundation. He is the recipient of the Lifetime Achievement award from AAPOS and AAO, the Secretariat award from the AAO, and was selected as an Honorary member of the American Association of Certified Orthoptists for his service to Orthoptists. He has lectured and performed Medical Mission teaching and clinical care widely throughout the world with ORBIS and other organizations and has presented 47 invited, guest, keynote as well as 13 named lectures. Dr. Del Monte has authored or co-authored over 130 publications, 4 books, and 18 book chapters. He was the founding Director of Pediatric Ophthalmology and the University of Michigan for 37 years. He also served as director or co-director of Pediatric Ophthalmology Fellowship training at the University of Michigan for the past 34 years and considers the training 72 AUPO/FCC approved clinical and research fellows from the United States and 43 observer and research fellows from countries throughout the world his most significant and rewarding accomplishment.

**Burton Kushner, MD**

Burton Kushner is Professor Emeritus in the Department of Ophthalmology at the University of Wisconsin in Madison. He has been Program Secretary of AAPOS, Editor-in-Chief of the Journal of Pediatric Ophthalmology, Founding Editor of the Journal of AAPOS, and Co-Editor-in-Chief of Binocular Vision and Ocular Motility. He authored over 200 peer reviewed manuscripts, 43 textbook chapters, edited 3 textbooks, and was sole author of another 2 textbooks. Dr. Kushner has given 30 named lectures and received many awards including the Heed Award, the Bressler Prize, and the Senior Honor Award from the AAO and the AAPOS. He was listed in every annual edition of Best Physicians in America and was listed as one of the 20 most innovative pediatric surgeons alive by Top Masters in Health Care Administration. His passion has been understanding the mechanism behind, and treatment of complex strabismus, and the training of residents and fellows. Dr. Kushner played a major role in training over 35 AAPOS fellows as well as multiple other international fellows. A quote from one of his former fellows: “He is extremely humble, makes himself available for questions, truly cares about the education of the fellow, and has many pearls of wisdom to share.”
2023 Parks Award Recipients – Bronze Medalists

Zane Pollard, MD

Dr. Zane Pollard received his medical degree in 1966 from Tulane University where he graduated AOA. He completed his residency in ophthalmology at the University of Southern California, followed by his fellowship in pediatric ophthalmology at the Wills Eye Hospital. As director of the fellowship in pediatric ophthalmology at the James Hall Eye Center in Atlanta, Dr. Pollard trained 35 fellows, two of whom became president of AAPOS, and several have spent their careers in academics teaching at the university level. He has published over 95 articles in peer reviewed journals. He wrote his American Ophthalmological thesis on the diagnosis and treatment of persistent hyperplastic primary vitreous. He is a recipient of the Tulane School of Medicine lifetime achievement award, and he practiced pediatric ophthalmology for 47 years in Atlanta, Georgia.

Peter Montana

Peter Montana was instrumental in bringing awareness to a needed pediatric eye glass frame to North America when in 2002 he brought newly designed Italian frames dedicated to babies and children, called Miraflex.

After 50 rejections from optical shops in the Bay Area, he walked into the Pediatric Ophthalmology practice of Gordon Brown, MD in Oakland, CA and found his first customer with a 100-piece order; a business was born. In 2003, Peter attended his first AAPOS Meeting where his commitment and mission to children with eye challenges, not only in the US, but worldwide, was confirmed. Peter’s first modest donation of $50 to the newly formed CEF, grew as his business succeeded. New designs were developed after listening to Pediatric Ophthalmologists’ requests.

Peter is grateful for the acquaintances and solid friendships created from annual attendance at AAPOS meetings from 2003 until 2020 when COVID postponed the meeting. These relationships extend to the American Association for Certified Orthoptists where Miraflex became a staunch supporter attending all national meetings and most regional meetings. In 2018, Peter was asked and served on the International Pediatric Ophthalmology and Strabismus Council (IPOSC). Discreetly, for over half a decade, every children’s hospital in the US (225) and the Seva Foundation, dedicated to preventing unnecessary blindness in Asia, Africa, and Central America, received Peter’s support. Peter’s support to the Down Syndrome Association included participation in Buddy Walks and was able to support optical shops throughout the country that wanted to participate in their local walks.

Peter’s latest service was in The Gambia after participating in numerous eye care missions in China and El Salvador.
2023 PRESIDENT’S SYMPOSIUM SPEAKER

Kerry Sanders

*The Importance of Storytelling in Medical Practice*

Friday, March 31, 2023 • 4:15 PM – 5:15PM

Kerry Sanders began his reporting career at what was then called the South Middlesex News, newspaper, in the MetroWest Boston area. He also reported on Radio in Lima Peru for Radio del Pacifico. A graduate of the University of South Florida (BA liberal arts), Kerry joined WTLV-TV (then ABC) in Jacksonville, Florida in 1982. He then moved to WINK-TV (CBS) in Fort Myers, Florida in 1983. He moved to WTVT-TV (then CBS) in Tampa, Florida in 1987. He moved to WTVJ-TV (NBC) in Miami in 1991 where he was a regular contributor to the network. He then moved from the owned and operated station to full time network NBC News.

For 32 years, Kerry Sanders was NBC’s Miami-based correspondent. He contributed regularly to “NBC Nightly News with Lester Holt,” “Today” and MSNBC. And was a founding member of the NBC Nightly News Kids edition reporting staff. From plane crashes, like ValuJet that went down into the Everglades to swimming with bull sharks during a live report, to his personal interests in the environment and animals, he was a regular face on the Today Show.

When not covering features, he was on breaking news. He lead NBC News coverage of the Surfside condo collapse and was a key reporter for the high school shooting in Parkland. Kerry is perhaps best known for the moments after Hurricane Irma where he came upon two beached dolphins. In live reports that went viral, Kerry rescued a baby dolphin and then 20 minutes later, he enlisted 8 bystanders to rescue yet another full grown dolphin that was also beached.

Sanders has more than 40 years of experience providing in-the-field reports during hurricanes. He has covered more than 100 named storms including Andrew and Hugo. Kerry was a member of the NBC Nightly News reporting team awarded a Peabody, an Emmy, and the RTNDA Edward R. Murrow Award for coverage of Hurricane Katrina. And again, lead the Edward R. Murrow award winning coverage during the 2017 attack at the airport in Fort Lauderdale.

In 2011, he received the Society of Professional Journalists Bronze Medal for his weeks of reporting on the 33 Chileans trapped deep in a copper mine. A clip of his report was included in the Hollywood Movie “The 33.” Sanders was part of the NBC News team awarded a 2011 first place National Headliner Award went for his reporting from Haiti’s 2010 earthquake. He was also part of the Emmy winning NBC News team honored for its 2009 national election meltdown coverage. In 2000, Sanders won the Overseas Press Club Award for his coverage in Kosovo.

During the Iraq war, Sanders embedded with the U.S. Marine Corps and reported on various battles, including the harsh 11-day conflict in Nasiriya. In 1994, Sanders was recognized with the Columbia DuPont award for his reporting from Haiti as a military coup rocked the country. Sanders shared another Columbia DuPont award for his coverage of the widespread devastation of Hurricane Andrew in 1992. He also received the RTNDA Edward R. Murrow Award and the George Foster Peabody Award for coverage of Hurricane Andrew and the aftermath of the storm.

In 2023, Kerry retired from NBC News. His interests in reporting remain and he says he hopes to develop a longer form outlet for his reporting with a focus on the environment and animals.
## Growing Your Practices’ Economic Potential: From Basics to Advanced Concepts*

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM – 8:10 AM</td>
<td>Introduction/Welcome</td>
</tr>
<tr>
<td>8:10 AM – 9:00 AM</td>
<td>Leading Yourself and Your Team to Greater Socioeconomic Well-Being</td>
</tr>
<tr>
<td>9:00 AM – 9:20 AM</td>
<td>Question and Answer and Discussion</td>
</tr>
<tr>
<td>9:20 AM – 10:00 AM</td>
<td>Starting Your Own Practice</td>
</tr>
<tr>
<td>10:00 AM – 10:10 AM</td>
<td>Break</td>
</tr>
<tr>
<td>10:10 AM – 10:50 AM</td>
<td>Monitoring Your Practices Socioeconomic Health</td>
</tr>
<tr>
<td>10:50 AM – 11:20 AM</td>
<td>Ted Talk: Negotiation Contracts</td>
</tr>
<tr>
<td>11:20 AM – 12:00 PM</td>
<td>Maximizing Office Efficiency</td>
</tr>
<tr>
<td>12:00 PM – 12:10 PM</td>
<td>Break</td>
</tr>
<tr>
<td>12:10 PM – 1:00 PM</td>
<td>Working Lunch – Personal Finance/Investing</td>
</tr>
<tr>
<td>1:00 PM – 1:30 PM</td>
<td>Utilizing Physician Extenders</td>
</tr>
<tr>
<td>1:30 PM – 2:10 PM</td>
<td>Contracting: Hospital and ROP Contracts</td>
</tr>
<tr>
<td>2:10 PM – 2:50 PM</td>
<td>Ancillary Income: Optical Ownership, Real Estate, Surgery Center Investments</td>
</tr>
<tr>
<td>2:50 PM – 3:00 PM</td>
<td>Break</td>
</tr>
<tr>
<td>3:00 PM – 3:40 PM</td>
<td>Customer Service and Marketing</td>
</tr>
<tr>
<td>3:40 PM – 4:00 PM</td>
<td>Open Mic/Questions for Speakers</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Closing Remarks</td>
</tr>
</tbody>
</table>

*This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint provider-ship of Medical Education Resources and the American Association for Pediatric Ophthalmology and Strabismus. Medical Education Resources is accredited by the ACCME to provide continuing medical education for physicians. Medical Education Resources designates this live activity for a maximum of 7.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
# AAPOS Administrators Program

**Wednesday, March 29, 2023**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM – 4:00 PM</td>
<td>AAPOS Socioeconomic Committee Pre-Meeting: Growing Your Practices’ Economic Potential: From Basics to Advanced Concepts</td>
<td>JUILLIARD COMPLEX 5</td>
</tr>
<tr>
<td>4:00 PM – 5:00 PM</td>
<td>OMIC Workshop - OMIC’s Strabismus Claims – New Concerns</td>
<td>JUILLIARD COMPLEX 5</td>
</tr>
<tr>
<td>7:00 PM – 9:00 PM</td>
<td>Opening Reception</td>
<td>THE TERRACE 9</td>
</tr>
</tbody>
</table>

**Thursday, March 30, 2023**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM – 12:30 PM</td>
<td>Administrator Roundtables</td>
<td>JUILLIARD COMPLEX 5</td>
</tr>
<tr>
<td>3:30 PM – 5:00 PM</td>
<td>Building Blocks of Documentation and Coding in the Pediatric Ophthalmology Practice</td>
<td>JUILLIARD COMPLEX 5</td>
</tr>
<tr>
<td>4:30 PM – 6:30 PM</td>
<td>Helveston Founders Series Exhibitor Reception</td>
<td>WESTSIDE BALLROOM 5</td>
</tr>
</tbody>
</table>

**Friday, March 31, 2023**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM – 5:00 PM</td>
<td>Administrator Roundtables</td>
<td>BROADHURST &amp; IMPERIAL (JUILLIARD COMPLEX) 5</td>
</tr>
</tbody>
</table>
This floor will host Board and committee meetings.

Exhibitors will be featured in the Westside Ballroom. This is also where you will find Registration, as well as breaks, posters, and some pre-conference events.

The Scientific Sessions will be in the Broadway Ballroom. This floor will also host workshops and is where you will find the speaker ready room. The Children’s Eye Foundation of AAPOS Celebration event will be held in the Broadway Ballroom on Saturday, April 1 from 6:30 PM - 10:00 PM.
Come to the Astor Ballroom for corporate-sponsored symposia. You can also access the balcony of the Broadway Ballroom.

The Opening Reception will be held at The Terrace. This floor will also have some committee meetings, and the registered spouse/guest breakfasts are in Barrymore.
# PROGRAM SCHEDULE

## Wednesday, March 29, 2023

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM – 2:30 PM</td>
<td>Finance Committee, Board of Directors Meetings</td>
<td>ZIEGFELD</td>
</tr>
<tr>
<td>7:00 AM – 7:00 PM</td>
<td>Registration</td>
<td>NORTH REGISTRATION</td>
</tr>
<tr>
<td>8:00 AM – 4:00 PM</td>
<td>AAPOS Socioeconomic Committee Pre-Meeting: WORKSHOP 1</td>
<td>JUILLIARD COMPLEX</td>
</tr>
<tr>
<td></td>
<td>Growing Your Practices’ Economic Potential: From Basics to Advanced Concepts (Separate Registration/Fee)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Eric A. Packwood, MD; Traci Fritz, COE</em></td>
<td></td>
</tr>
<tr>
<td>1:00 PM – 4:00 PM</td>
<td>Poster Set Up (1st Set)</td>
<td>LYCEUM COMPLEX</td>
</tr>
<tr>
<td>4:00 PM – 6:00 PM</td>
<td>Poster Viewing (1st Set) (Authors not present)</td>
<td>LYCEUM COMPLEX</td>
</tr>
<tr>
<td>4:15 PM – 5:15 PM</td>
<td>OMIC Workshop WORKSHOP 2</td>
<td>JUILLIARD COMPLEX</td>
</tr>
<tr>
<td></td>
<td>OMIC’s Strabismus Claims – New Concerns</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Robert S. Gold, MD; Robert E. Wiggins, MD</em></td>
<td></td>
</tr>
<tr>
<td>6:15 PM – 7:00 PM</td>
<td>International Attendees Reception</td>
<td>SKY LOBBY</td>
</tr>
<tr>
<td>7:00 PM – 9:00 PM</td>
<td>Opening Reception</td>
<td>THE TERRACE</td>
</tr>
</tbody>
</table>

## Thursday, March 30, 2023

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM – 5:00 PM</td>
<td>Registration</td>
<td>NORTH REGISTRATION</td>
</tr>
<tr>
<td>6:30 AM – 8:00 AM</td>
<td>Breakfast</td>
<td>WESTSIDE BALLROOM</td>
</tr>
<tr>
<td>6:30 AM – 7:30 AM</td>
<td>Poster Viewing (Authors not present)</td>
<td>LYCEUM COMPLEX</td>
</tr>
<tr>
<td>8:00 AM – 10:05 AM</td>
<td>Moderators</td>
<td>BROADWAY BALLROOM</td>
</tr>
<tr>
<td></td>
<td><em>Robert S. Gold, MD; David K. Wallace, MD, MPH</em></td>
<td></td>
</tr>
<tr>
<td>8:00 AM – 8:05 AM</td>
<td>Introduction and Welcome</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>David K. Wallace, MD, MPH</em></td>
<td></td>
</tr>
<tr>
<td>8:05 AM – 8:20 AM</td>
<td>AAPOS President’s Remarks, Honor Awards, Senior Honor Awards, Lifetime Achievement Awards</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Robert S. Gold, MD</em></td>
<td></td>
</tr>
<tr>
<td>8:20 AM – 8:53 AM</td>
<td>Costenbader Lecture</td>
<td>BROADWAY BALLROOM</td>
</tr>
<tr>
<td>8:20 AM – 8:25 AM</td>
<td>Introduction of Costenbader Lecture</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Arlene V. Drack, MD</em></td>
<td></td>
</tr>
<tr>
<td>8:25 AM – 8:50 AM</td>
<td>Costenbader Lecture</td>
<td>LECTURE 1</td>
</tr>
<tr>
<td></td>
<td>What We Have Learned from the Infant Aphakia Treatment Study</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Scott R. Lambert, MD</em></td>
<td></td>
</tr>
<tr>
<td>8:50 AM – 8:53 AM</td>
<td>Presentation Ceremony</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Pamela E. Williams, MD</em></td>
<td></td>
</tr>
</tbody>
</table>
8:55 AM – 8:59 AM
Frequency and Type of Strabismus 5 Years Following Lensectomy for Pediatric Cataract

*Katherine A. Lee, MD, PhD*
Michael X. Repka, MD, MBA; Desirae R. Sutherland, MPH; Sarah R. Hatt, DO, BO; Donny W. Suh, MD; G. Robert LaRoche, MD; Rosanne Superstein, MD; David A. Leske, BS; B. Michele Melia, ScM; Raymond T. Kraker, MSPH; Susan A. Cotter, OD, MS; Jonathan M. Holmes, BM, BCh

9:02 AM – 9:06 AM
Objective Assessment And Quantitative Analysis of Pediatric Cataracts Using Optical Coherence Tomography: Correlation With Clinical Findings

*Savleen Kaur, MD*
Jaspreet Sukhiya, MD; Anand Bhardwaj, MD; Srishti Raj, MD; Jagat Ram, MD

9:09 AM – 9:13 AM
Factors Associated with Visual Acuity 5 Years Following Lensectomy for Infantile Cataract

*Michael X. Repka, MD, MBA*
Bahram Rahmani, MD; Desirae R. Sutherland, MPH; Sarah R. Hatt, DO, BO; Marielle P. Young, MD; Susanna M. Tamkins, OD; Mitchell B. Strominger, MD; Benjamin G. Jastrzembski, MD; Raymond T. Kraker, MSPH; B. Michele Melia, ScM; Susan A. Cotter, OD, MS; Jonathan M. Holmes, BM, BCh

9:16 AM – 9:20 AM
Standard Monofocal Intraocular Lenses Versus Enhanced Monofocal Intraocular Lenses for Children 6-13 Years Old with Pediatric Cataract

*Shaza Elzawahry, MD*
Hala Elhilali, MD; Ahmed Awadein, MD; Ghada Gawdat, MD; Sara Maher, MD

9:23 AM – 9:27 AM
DISCUSSION OF PREVIOUS PAPER

*M. Edward Wilson, MD*

9:27 AM – 9:31 AM
Anterior Chamber Iris-Claw Intraocular Lens Implantation for Aphakia in Children with Ectopia Lentis in Marfan Syndrome

*Marije Sminia*
Elisebeth Zeeburg van; Nicoline Schaliij-Delfos

9:34 AM – 9:38 AM
Anatomical and Functional Outcomes of Rotational Autokeratoplasty in Children: A Multicenter Retrospective Study

*Priscille de Laage de Meux, MD*
Damien Guindolet, MD, PhD; Georges Caputo, MD; Dominique Bremond-Gignac, MD, PhD; Pascal Dureau, MD; Matthieu Robert, MD, PhD; Gilles Martin, MD

9:41 AM – 9:45 AM
Probing and Irrigation versus Primary Nasal Endoscopy for the Treatment of Congenital Dacryocystoceles

*Tessnim R. Ahmad, MD*
Maanasa Indaram, MD

9:48 AM – 10:05 AM
PANEL DISCUSSION

*Katherine A. Lee, MD, PhD; Savleen Kaur, MD; Michael X. Repka, MD, MBA; Shaza Elzawahry, MD; Marije Sminia; Priscille de Laage de Meux, MD; Tessnim R. Ahmad, MD*
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:10 AM – 1:05 PM</td>
<td>Moderators: Tina Rutar, MD; Rahul Bhola, MD; David Wallace, MD, MPH</td>
<td>Broadway Ballroom</td>
<td></td>
</tr>
<tr>
<td>11:10 AM – 11:25 AM</td>
<td>Presentation of Parks Medals &amp; Children's Eye Foundation of AAPOS Update</td>
<td></td>
<td>Pamela E. Williams, MD; Bradley C. Black, MD; Robert S. Gold, MD</td>
</tr>
<tr>
<td>11:25 AM – 11:53 AM</td>
<td>Helveston Lecture</td>
<td></td>
<td>Michael F. Chiang, MD</td>
</tr>
<tr>
<td>11:55 AM – 1:05 PM</td>
<td>Scientific Session: Amblyopia – Vision Screening – Genetics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:55 AM – 12:02 PM</td>
<td>Ethnic Disparity in Timing of Amblyopia Diagnosis</td>
<td></td>
<td>Daniel A. Greninger, MD; James Ruben, MD; Carol Conell, PhD</td>
</tr>
<tr>
<td>12:02 PM – 12:09 PM</td>
<td>Randomized Clinical Trial of Patch-Free Streaming Binocular Contrast-Rebalanced Dichoptic Cartoons versus Patching for Treatment of Amblyopia in Children Aged 3 to 5 Years</td>
<td></td>
<td>Reed M. Jost, MS; Prashanti Giridhar, MD; David R. Stager, Jr, MD; Becky Luu, MD; Lori Dao, MD; Cynthia L. Beauchamp, MD; Taylor A. Brin, PhD; Yi-Zhong Wang, PhD; Robert F. Hess, PhD; Benjamin Thompson, PhD; Eileen E. Birch, PhD</td>
</tr>
<tr>
<td>12:09 PM – 12:16 PM</td>
<td>An Eye-Tracking Based Dichoptic Amblyopia Home Treatment is Comparable to Standard Occlusion for Amblyopia: A Multicenter Randomized Clinical Trial</td>
<td></td>
<td>Tamara Wygnanski-Jaffe, MD; Burton J. Kushner, MD; Michael Belkin, MD; Avital Moshkovitz, PhD</td>
</tr>
<tr>
<td>12:16 PM – 12:20 PM</td>
<td>DISCUSSION OF PREVIOUS PAPER</td>
<td></td>
<td>Eileen E. Birch, PhD</td>
</tr>
<tr>
<td>12:20 PM – 12:27 PM</td>
<td>A Multicentre Centre Randomized Controlled Trial Comparing Patching for Amblyopia with and without Extended Optical Treatment</td>
<td></td>
<td>Irene Gottlob; Frank A. Proudlock; Michael Hisaund; Gail D. Machonachie; Elena Papageorgiou; Ali Manouchehrinia</td>
</tr>
<tr>
<td>12:27 PM – 12:34 PM</td>
<td>Failed Vision Screenings and Childhood Refractive Errors: When Do We Actually Prescribe Glasses?</td>
<td></td>
<td>Yoon H. Lee, MD; Brian Forbes, MD, PhD; Alyssa Spiller; Yinxi Yu, MS; Gui-Shuang Ying, PhD; Gil Binenbaum, MD, MSCE</td>
</tr>
<tr>
<td>12:34 PM – 12:41 PM</td>
<td>Ocular Biometric Parameters Changes and Choroidal Vascular Abnormalities in Patients with Neurofibromatosis Type 1 Evaluated by OCT-A</td>
<td></td>
<td>Aldo Vagge, MD, PhD; Massimo Nicolo, MD, PhD; Paolo Corazza, MD; Giuseppe Giannaccare, MD, PhD; Paola Camicione, MD; Carlo Traverso, MD</td>
</tr>
</tbody>
</table>
### Thursday, March 30, 2023 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 12:41 PM – 12:48 PM | **FOVEAL HYPOPLASIA GRADING IN 95 CASES OF CONGENITAL ANIRIDIA: CORRELATION TO PHENOTYPE AND PAX6 GENOTYPE**  
**Alejandra Daruich**  
Matthieu Robert, Pr; Sophie Valleix, Pr; Dominique Bremond-Gignac, Pr |
| 12:48 PM – 1:05 PM | **PANEL DISCUSSION**  
Daniel A. Greninger, MD; Reed M. Jost, MS; Tamara Wygnanski-Jaffe, MD; Irene Gottlob; Yoon H. Lee, MD; Aldo Vagge, MD, PhD; Alejandra Daruich |

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 1:15 PM – 2:00 PM | **AAPOS Business Meeting**  
**BROADWAY BALLROOM** |
| 2:15 PM – 3:15 PM | **SEC Practice Management Workshop**  
**BROADWAY BALLROOM**  
**CHE**  
Implications of Socioeconomic Factors On the Future of Pediatric Ophthalmology and its Impact on Access to Care: The Next Generation Project  
**Charlotte Gore, MD; Karen E. Lee, MD, MS; Leonard B. Nelson, MD; Eric A. Packwood, MD** |
| 3:30 PM – 5:00 PM | **Building Blocks of Documentation and Coding in the Pediatric Ophthalmology Practice**  
**JJULLIARD & IMPERIAL**  
**CHE**  
**Heather Dunn, COA, OCS, OCRS; Traci Fritz, COE; Eric A. Packwood, MD; Maria P. Patterson, MD; Michael X. Repka, MD, MBA** |
| 4:30 PM – 6:30 PM | **Helveston Lecture/Founders Series Reception**  
**WESTSIDE BALLROOM** |

### Friday, March 31, 2023

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 6:30 AM – 5:00 PM | **Registration**  
**NORTH REGISTRATION** |
| 6:30 AM – 7:30 AM | **Breakfast**  
**WESTSIDE BALLROOM** |
| 6:30 AM – 7:30 AM | **Poster Viewing (1st Set) (Authors not present)**  
**LYCEUM COMPLEX**  
**CHE** |
| 7:00 AM – 8:15 AM | **Workshops**  
**CHE** |
| WORKSHOP 5       | Cortical/Cerebral Visual Impairment 2023 Update: What You Need to Know  
**Schubert**  
**Melinda Chang; Sharon Lehman; Richard Legge; Veeral Shah** |
| WORKSHOP 6       | Advanced and Innovative Techniques Managing Strabismus from Orbital Trauma  
**Broadway North**  
**5**  
**Linda R. Dagi, MD; Seyhan B. Özkan, MD; Eric D. Gaier, MD, PhD; Federico G. Velez, MD; Hilda Capo, MD** |
| WORKSHOP 7       | What’s New and Important in Pediatric Ophthalmology  
**Broadway South**  
**5**  
**Emily McCourt; Eunice Kohara; Smith Ann Chisholm; Hersh Varma; Lauren Mehner; Casey Smith; Catherine Choi; Robert Tuscher; Alex Khammar; Grace Wang** |
| WORKSHOP 8       | Intraoperative Cataract and Anterior Segment Dilemmas: Cases with Expert Opinions  
**Majestic**  
**6**  
**Azam Qureshi; Ken Nischal; M. Edward Wilson; Sarah Eppley** |
| 8:30 AM – 9:45 AM | **Workshops**  
**CHE** |
| WORKSHOP 9       | How to Use Posterior and Anterior OCT and OCT Angiography in Your Clinical Practice  
**Broadway South**  
**6**  
**Yasmin Bradfield; Savleen Kaur; Mays El-Dairi; Ken Nischal** |
| WORKSHOP 10      | Controversies in Pediatric Eye Trauma: An Evidence-Based Topic Debate and Discussion  
**Majestic**  
**6**  
**Ankoo S. Shah; Kara M. Cavuto, MD; Eric D. Gaier, MD, PhD; Eileen Gonzalez, MD; Charlotte Gore, MD; Courtney L. Kraus, MD; Prethy Rao, MD; J. Reeves Ellis Samaha, MD, MPH; Natalie C. Weil, MD; Marguerite C. Weinert, MD** |
| WORKSHOP 11      | AOC/AAPOS Joint Workshop: Thinking Outside the BOtoX: A Tribute to Alan Scott  
**Broadway North**  
**6**  
**Sarah Whittecross, CO; Doug Fredrick, MD; Alejandra de Alba Campanones, MD; Joseph L. Demer, MD; William V. Good, MD; Dusty Gronemeyer, CO; Eugene Helveston, MD; David G. Hunter, MD, PhD; Sarah Mackinnon, CO; Gill Roper-Hall, CO** |
| WORKSHOP 12      | Pharmapalooza 2023: Drug Updates for the Pediatric Ophthalmologist  
**Schubert**  
**6**  
**Tammy L. Yanovitch, MD, MHSc; Maria Lim, MD; Laura B. Enyedi, MD; Sawyer Vaclaw, BS; R. Michael Siatkowski, MD, MBA** |
WORKSHOP 13  
Novel Strabismus Surgery Techniques – A Hands-On Lab  
SKY LOBBY  
(Separate pre-registration required – limited to 50 participants)  
Kenneth W. Wright, MD; Yi Ning Strube, MD; Rebecca Leenheer, MD; Lisa Thompson, MD; Cem Mocan, MD  
9:45 AM – 10:30 AM  
Refreshment Break and Exhibit Viewing  
WESTSIDE BALLROOM  

WORKSHOP 14  
YAAPOS Rapid Fire Cases  
BROADWAY NORTH  
Smith Ann Chisholm; Sasha Strul; Zachary Elkin; Lauren Mehner; Stephanie Tillitt; Iniya Adhan; Alex Kwok; Tiffany Chen; Bryce Baugh; Carleigh Bruce; Maria Stunkel; Crystal Cheung; Brandon Kennedy; Matthew Javitt  
10:30 AM – 11:45 AM  

WORKSHOP 15  
Myopia and Amblyopia are Common Diagnoses in Pediatric Ophthalmology Practice. When Should You Suspect More?  
MAJESTIC  
Alina V. Dumitrescu, MD; Arif O. Khan, MD; Matthew Weed, MD; Janice Zeid, MD; Jaime Tejedor, MD; Kathryn M. Haider, MD; Arlene V. Drack, MD; Jefferson Doyle, MD, PhD, MHS, MA  
11:30 AM – 12:00 PM  
Poster Removal (1st Set)  
LYCEUM COMPLEX  

WORKSHOP 16  
SCHUBERT  
Gregg T. Lueder, MD; Mary Louise Collins, MD; David Epley, MD; Dan Karr, MD; Alex V. Levin, MD; Sheryl Menacker, MD  
12:00 PM – 1:00 PM  
Corporate Sponsored Symposium with Lunch (No AAPOS CME)  
ASTOR BALLROOM  
Eyeing the Problem: Treating and Managing Ocular Manifestations of Nephropatic Cystinosis  
Rachel J. Bishop, MD, MPH; Bradley S. Miller, MD, PhD  
1:15 PM – 2:30 PM  

WORKSHOP 17  
Torsional Diplopia – Evaluation and Evolving Treatment Options  
BROADWAY SOUTH  
Jon Peiter Saunte, MD; Sara Flodin, CO, PhD; Jonathan M. Holmes, MD; Pradeep Sharma, MD; Stacy Pineses, MD, MS; Federico Velez, MD  
2:45 PM – 4:00 PM  

WORKSHOP 21  
IPOSC Workshop: Surprises in Pediatric Ophthalmology & Strabismus: Cases with a Twist  
BROADWAY NORTH  
Jan Tjeerd de Faber, MD; Faruk Orge, MD; Tamara Wygnanski-Jaffe, MD; Scott R. Lambert, MD; Sonal Farzavandi, MD; Rohit Saxena, MD, PhD; Giovanni B. Marcon, MD; Alex V. Levin, MD  

WORKSHOP 22  
Surgical Management of Childhood Glaucoma – Pearls Learned the Hard Way  
MAJESTIC  
Sharon F. Freedman; Alex V. Levin; Allen D. Beck; Ta Chen Peter Chang; Brenda L. Bohnsack; Matthew L. Haynie  
2:45 PM – 4:00 PM  

WORKSHOP 23  
Management of Complex Strabismus: Pearls and Pitfalls  
BROADWAY SOUTH  
Saurabh Jain; Gillian Adams; Jonathan M. Holmes; Rosario Gomez de Liano; Seyhan B. Ozkan; Jon Peiter Saunte; Federico Velez; Anthony Vivian  

WORKSHOP 24  
Scratching Below the Surface: Clinical Pearls in Pediatric Ocular Surface Diseases  
SCHUBERT  
Kamiar Mireskandari; Asim Ali; Simon Fung; Angela Zhu  

WORKSHOP 25  
Hot Topics in Pediatric Neuro-Ophthalmology  
BROADWAY NORTH  
Jason Peragallo; Melinda Chang; Mays El-Dairi; Gena Heidary; Julius Oatts; Stacy Pineses
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:45 PM – 4:15 PM</td>
<td>Poster Set Up (2nd Set)</td>
<td>LYCEUM COMPLEX</td>
</tr>
<tr>
<td>4:15 PM – 5:15 PM</td>
<td>President’s Symposium</td>
<td>BROADWAY NORTH &amp; BROADWAY SOUTH</td>
</tr>
<tr>
<td></td>
<td>The Importance of Storytelling in Medical Practice</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Kerry Sanders</em></td>
<td></td>
</tr>
<tr>
<td>5:30 PM – 6:30 PM</td>
<td>Young Ophthalmologists, Senior Ophthalmologists, and New Member Reception</td>
<td>SKY LOBBY</td>
</tr>
<tr>
<td>6:00 PM – 8:00 PM</td>
<td>Poster Viewing (2nd Set) (Authors not present)</td>
<td>LYCEUM COMPLEX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CME</td>
</tr>
<tr>
<td><strong>Saturday, April 1, 2023</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6:30 AM – 7:30 AM</td>
<td>AAPOS 5K Run</td>
<td>HOTEL LOBBY</td>
</tr>
<tr>
<td>6:45 AM – 7:45 AM</td>
<td>Corporate Sponsored Symposium with Breakfast (No CME)</td>
<td>ASTOR BALLROOM</td>
</tr>
<tr>
<td></td>
<td>A New Reality in Amblyopia Treatment</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>David Epley, MD; Rupa Wong, MD</em></td>
<td></td>
</tr>
<tr>
<td>7:00 AM – 5:00 PM</td>
<td>Registration</td>
<td>NORTH REGISTRATION</td>
</tr>
<tr>
<td>6:30 AM – 8:00 AM</td>
<td>Breakfast</td>
<td>WESTSIDE BALLROOM</td>
</tr>
<tr>
<td>7:00 AM – 8:00 AM</td>
<td>Poster Viewing (2nd Set) (Authors not present)</td>
<td>LYCEUM COMPLEX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CME</td>
</tr>
<tr>
<td>8:00 AM – 9:50 AM</td>
<td>Moderators:</td>
<td>BROADWAY BALLROOM</td>
</tr>
<tr>
<td></td>
<td><em>Catherine O. Jordan, MD; M. Edward Wilson, MD; Yasmin S. Bradfield, MD</em></td>
<td></td>
</tr>
<tr>
<td>8:00 AM – 8:10 AM</td>
<td>Gunter K. von Noorden Young Investigator Award</td>
<td>BROADWAY BALLROOM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CME</td>
</tr>
<tr>
<td>8:00 AM – 8:01 AM</td>
<td>Introduction of the Gunter K. von Noorden Young Investigator Paper</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Stacy L. Pineles, MD</em></td>
<td></td>
</tr>
<tr>
<td>8:01 AM – 8:09 AM</td>
<td>Gunter K. von Noorden Young Investigator Award Paper</td>
<td>PAPER 15</td>
</tr>
<tr>
<td></td>
<td><em>Childhood Glaucoma Treatment Outcomes: From Case Reports to Big Data Analysis</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Ta Chen Peter Chang, MD</em></td>
<td></td>
</tr>
<tr>
<td>8:09 AM – 8:10 AM</td>
<td>Presentation Ceremony</td>
<td>Mohamad S. Jaafar, MD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CME</td>
</tr>
<tr>
<td>8:10 AM – 8:17 AM</td>
<td>Risk Factors for Glaucoma Diagnosis and Surgical Intervention following Pediatric Cataract Surgery in the IRIS® Registry</td>
<td>PAPER 16</td>
</tr>
<tr>
<td></td>
<td><em>Daniel M. Vu, MD</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Tobias Elze, PhD; Joan W. Miller, MD; Alice C. Lorch, MD, MPH; Deborah K. VanderVeen, MD; Isdin Oke, MD; IRIS® Registry Analytic Center Consortium</em></td>
<td></td>
</tr>
<tr>
<td>8:17 AM – 8:24 AM</td>
<td>Impact of Socioeconomic Factors on the Outcomes of Childhood Glaucoma</td>
<td>PAPER 17</td>
</tr>
<tr>
<td></td>
<td><em>Deborah K. VanderVeen, MD</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Isdin Oke; Jean Adomfeh; Muhammad Z. Chauhan; Abdelrahman M. Elhusseiny</em></td>
<td></td>
</tr>
<tr>
<td>8:24 AM – 8:31 AM</td>
<td>Ocular Surface Disease in Childhood Glaucoma</td>
<td>PAPER 18</td>
</tr>
<tr>
<td></td>
<td><em>Abid A. Haseeb, MD</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Omar Solyman; MD; Dina Abdelfattah, MD; Nashwa Sadik, MD; Taher K. Eleiwa, MD; Ibrahim A. Elsaadani, MD; Hajirah N. Saeed, MD, MPH; Abdelrahman M. Elhusseiny, MD</em></td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Presenters</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>8:31 AM – 8:38 AM</td>
<td>Pilot Study Comparing a New Virtual Reality-Based Visual Field Test to Standard Perimetry</td>
<td>Yeabsira Mesfin; Murtaza Saifee; Michael Deiner; Yvonne Ou; Julius Oatts</td>
</tr>
<tr>
<td>8:38 AM – 8:45 AM</td>
<td>Performance of a Novel Virtual Reality Automated Perimetry in Patients with Pediatric Glaucoma</td>
<td>Bo Wang; Samuel Alvarez; Mays El-Dairi; Sharon F. Freedman</td>
</tr>
<tr>
<td>8:45 AM – 8:51 AM</td>
<td>DISCUSSION OF TWO PREVIOUS PAPERS</td>
<td>Gena Heidary, MD, PhD</td>
</tr>
<tr>
<td>8:51 AM – 8:58 AM</td>
<td>One Year Results of Gonioscopy-Assisted Transluminal Trabeculotomy versus Two-Site Rigid-Probe Trabeculotomy in Primary Congenital Glaucoma</td>
<td>Hala ElHilali, MD; Reem M. Aboulhassan, MSc; Yasmine M. ElSayed, MD; Amanne Esmael, MD; Ahmed ElKateb, MD; Ghada Gawdat, MD</td>
</tr>
<tr>
<td>8:58 AM – 9:05 AM</td>
<td>Analysis of Ganglion Cell Thinning in Paediatric Papilledema – At What Point Does Visual Function Become Affected?</td>
<td>Michael J. Wan; Andi H. Malem, Dr; Y. Arun Reginald, Dr</td>
</tr>
<tr>
<td>9:05 AM – 9:12 AM</td>
<td>Predicting Visual Acuity and Myopic Changes in Children Wearing Glasses with a Photoscreener</td>
<td>Sandra Guimaraes, MD, PhD; Maria Joao Vieira, MD; Jose Miguel Vilas Boas</td>
</tr>
<tr>
<td>9:12 AM – 9:19 AM</td>
<td>Rebound Effect in Gradual vs. Prompt Cessation of Atropine 0.01% Treatment for Childhood Myopia</td>
<td>Asaf Shemer; Nir Erdinest; Naomi London; Biana Dubinsky-Pertzov; Eran Pras; Yair Morad</td>
</tr>
<tr>
<td>9:19 AM – 9:23 AM</td>
<td>DISCUSSION OF PREVIOUS PAPER</td>
<td>Amy K. Hutchinson, MD</td>
</tr>
<tr>
<td>9:23 AM – 9:30 AM</td>
<td>Short-Term Effect of Atropine 0.01% vs Atropine 0.05% on Higher Order Aberration, Retinal Image Quality and Contrast Sensitivity in Progressive Myopia</td>
<td>Vinay Gupta; Rohit Saxena; Rebika Dhiman; Swati Phuljhele; Jyoti Rawat; JS Titiyal</td>
</tr>
<tr>
<td>9:30 AM – 9:37 AM</td>
<td>Excimer Laser Refractive Surgery Outcomes in 355 Myopic Children Followed an Average 5 Years</td>
<td>Nicolas Faron; James Hoekel; Margaret Reynolds; Lawrence Tychsen</td>
</tr>
<tr>
<td>9:37 AM – 9:50 AM</td>
<td>PANEL DISCUSSION</td>
<td>Daniel M. Vu, MD; Deborah K. VanderVeen, MD; Abid A. Haseeb, MD; Yeabsira Mesfin; Bo Wang; Hala ElHilali, MD; Andy H. Malem; Sandra Guimaraes, MD, PhD; Asaf Shemer; Vinay Gupta; Nicolas Faron</td>
</tr>
<tr>
<td>9:50 AM – 10:50 AM</td>
<td>Interactive Poster Session – Author Presentation and Q/A</td>
<td>BD</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td>Room</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>10:55 AM – 1:00 PM</td>
<td>Moderators</td>
<td>BROADWAY BALLROOM</td>
</tr>
<tr>
<td>10:55 AM – 11:25 AM</td>
<td>AAPOS Updates</td>
<td>BROADWAY BALLROOM</td>
</tr>
<tr>
<td>10:57 AM – 11:25 AM</td>
<td>AAPOS Updates</td>
<td>BROADWAY BALLROOM</td>
</tr>
<tr>
<td>11:07 AM – 11:11 AM</td>
<td>National Eye Institute Update</td>
<td></td>
</tr>
<tr>
<td>11:11 AM – 11:15 AM</td>
<td>JAAPOS Update</td>
<td></td>
</tr>
<tr>
<td>11:25 AM – 1:00 PM</td>
<td>Scientific Session: Strabismus – Retinoblastoma – Retinopathy of Prematurity</td>
<td>BROADWAY BALLROOM</td>
</tr>
<tr>
<td>11:32 AM – 11:39 AM</td>
<td>Reoperation following Pediatric Eye Muscle Surgery</td>
<td></td>
</tr>
<tr>
<td>11:43 AM – 11:50 AM</td>
<td>Non-Absorbable Sutures use in Bi-Medial Rectus Recession and Bilateral Lateral Rectus Recession Improves Surgical Outcomes</td>
<td></td>
</tr>
<tr>
<td>11:50 AM – 12:08 PM</td>
<td>The Outcome of a Dissolvable Adhesion Barrier for Management of Adhesion in Strabismus Surgery</td>
<td></td>
</tr>
<tr>
<td>12:04 PM – 12:08 PM</td>
<td>DISCUSSION OF PREVIOUS PAPER</td>
<td></td>
</tr>
</tbody>
</table>

PAPER 27: Reoperation following Pediatric Eye Muscle Surgery
PAPER 28: Reoperation after Unilateral Recess-Resect versus Bilateral Lateral Rectus Recession for Intermittent Exotropia in a Randomized Clinical Trial
PAPER 29: Non-Absorbable Sutures use in Bi-Medial Rectus Recession and Bilateral Lateral Rectus Recession Improves Surgical Outcomes
PAPER 30: The Outcome of a Dissolvable Adhesion Barrier for Management of Adhesion in Strabismus Surgery
PAPER 31: Dose Response Analysis of Vertical Central Plication

Saturday, April 1, 2023 (continued)
### Saturday, April 1, 2023 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:08 PM – 12:15 PM</td>
<td>Long Term Outcomes of the Intraoperative Relaxed Muscle Positioning Technique of Strabismus Surgery in Thyroid Eye Disease</td>
<td><em>PAPER 32</em></td>
<td><strong>Justin Muste</strong> Kevin Wang; Elias Traboulsi</td>
</tr>
<tr>
<td>12:15 PM – 12:22 PM</td>
<td>Single-Center, Long-Term, Real-World Outcomes of Intravenous and/or Intra-Arterial Chemotherapy for Retinoblastoma. Does it Last to 10 or 20 Years?</td>
<td><em>PAPER 33</em></td>
<td><strong>Carol L. Shields, MD</strong> Philip W. Dockery; Pascal Jabbour; Stavropoula Tjoumakaris; Amish Shah; Ann Leahey; Sara E. Lally; Jerry A. Shields</td>
</tr>
<tr>
<td>12:22 PM – 12:29 PM</td>
<td>Efficacy of High-Saturation Oxygen Therapy to Prevent Progression of Late-Stage Retinopathy of Prematurity: A Retrospective Cohort Study</td>
<td><em>PAPER 34</em></td>
<td><strong>Robert J. Minturn</strong> Kelly A. Hartigan; Kok Lim Kua; Sravanthi Vegunta; Charline S. Boente; Kathryn M. Haider</td>
</tr>
<tr>
<td>12:29 PM – 12:36 PM</td>
<td>Effect of Intravitreal Aflibercept Versus Laser Photocoagulation for Retinopathy of Prematurity: Results from the Phase 3 BUTTERFLEYE Trial</td>
<td><em>PAPER 35</em></td>
<td><strong>Faruk H. Orge, MD</strong> (On behalf of the BUTTERFLEYE Study team)</td>
</tr>
<tr>
<td>12:36 PM – 12:40 PM</td>
<td>DISCUSSION OF PREVIOUS PAPER</td>
<td></td>
<td><strong>J. Peter Campbell, MD, MPH</strong></td>
</tr>
<tr>
<td>12:40 PM – 12:47 PM</td>
<td>Quantifying Laser Burn Spots to Avascular Retina Post-Bevacizumab Treatment in Retinopathy of Prematurity Infants at Different Age Groups</td>
<td><em>PAPER 36</em></td>
<td><strong>Michelle T. Cabrera, MD</strong> Swati Agarwal-Sinha, MD, FASRS; Wei Xue, PhD</td>
</tr>
<tr>
<td>12:47 PM – 1:00 PM</td>
<td>PANEL DISCUSSION</td>
<td></td>
<td><strong>Melissa Li, MS; Sean P. Donahue, MD, PhD; Yair Morad; Michael C. Struck, MD; Yi Ning J. Strube, MD, MS, FRCSC; Justin Muste; Carol L. Shields; Robert J. Minturn; Faruk H. Orge, MD; Michelle T. Cabrera, MD</strong></td>
</tr>
<tr>
<td>1:15 PM – 2:00 PM</td>
<td>Corporate Sponsored Symposium with Lunch (No CME)</td>
<td></td>
<td><strong>Burton Kushner, MD; Michael Repka, MD; Tamara Wyzganski-Jaffe, MD; Nicholas Sala, DO; Ran Yam</strong></td>
</tr>
<tr>
<td>2:15 PM – 3:30 PM</td>
<td>Rapid Fire Medical Student Paper Presentations</td>
<td></td>
<td><strong>Hilda Capo, MD; Angeline Nguyen, MD</strong></td>
</tr>
<tr>
<td>2:15 PM – 2:17 PM</td>
<td>Introduction</td>
<td></td>
<td><strong>Hilda Capo, MD</strong></td>
</tr>
<tr>
<td>2:17 PM – 2:20 PM</td>
<td>Patient Education in Pediatric Ophthalmology: A Systematic Review</td>
<td><em>RAPID FIRE PAPER 1</em></td>
<td><strong>Tahvi D. Frank, MPH</strong> Steven Rosenberg, MD; Sonali Talsania, MD; Lauren Yeager, MD</td>
</tr>
<tr>
<td>2:23 PM – 2:26 PM</td>
<td>Association between Socioeconomic Status and Amblyopia Treatment Compliance</td>
<td><em>RAPID FIRE PAPER 3</em></td>
<td><strong>Thanvi Vatti</strong> Hao-Tinh Le; Andrea Arline; Zain Q. Khawaja; Faruk Orge</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Title</td>
<td>Presenters</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------</td>
<td>------------------------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>2:26 PM – 2:29 PM</td>
<td>RAPID FIRE PAPER 4</td>
<td>Low-Dose Atropine vs Peripheral Defocus Soft Contact Lenses for Myopia Control</td>
<td>Anna Mueller, BS; Juan Gabriel Ruiz Pelaez, MD; Roberto Warman, MD</td>
</tr>
<tr>
<td>2:29 PM – 2:32 PM</td>
<td>RAPID FIRE PAPER 5</td>
<td>What Are Patients Asking Online About Strabismus? An Analysis of the Strabismus Subreddit</td>
<td>Parastou Pakravan; Araliya N. Gunawardene; James Lai; Jayanth Sridhar; Kara M. Cauvuto</td>
</tr>
<tr>
<td>2:32 PM – 2:35 PM</td>
<td>RAPID FIRE PAPER 6</td>
<td>Depictions of Strabismus in Children’s Animated Films</td>
<td>Jintong Liu; Tyler D. Benjamin, MM; Aditya Mantha; Maksym Goryachok; Michael A. Puente, MD</td>
</tr>
<tr>
<td>2:35 PM – 2:38 PM</td>
<td>RAPID FIRE PAPER 7</td>
<td>Physician Reimbursement for Strabismus Surgery versus Cataract Surgery across Provinces and Territories in Canada</td>
<td>Kaylin O’Hara; Vishaal Bhambhwan, MD</td>
</tr>
<tr>
<td>2:38 PM – 2:41 PM</td>
<td>RAPID FIRE PAPER 8</td>
<td>Correction of Co-Existing Small Angle Vertical Deviation by Horizontal Muscle Surgery</td>
<td>Urvi Gupta; Blake Boehm; David Chong; Jason Singer; Zeina Salem; Faruk Orge</td>
</tr>
<tr>
<td>2:41 PM – 2:44 PM</td>
<td>RAPID FIRE PAPER 9</td>
<td>Outcomes of Strabismus Surgery in Patients following Teprotumumab Therapy</td>
<td>Grant Hilliard; Natalie Kerr, MD</td>
</tr>
<tr>
<td>2:44 PM – 2:47 PM</td>
<td>RAPID FIRE PAPER 10</td>
<td>Trends in Ocular Injury in Children Two Years and Under from 2017 to 2021 in the United States</td>
<td>Muhammad Z. Chauhan, MS, MA; Paul H. Phillips, MD; Abdelrahman M. Elhusseiny, MD; Ahmed B. Sallam, MD; Sami H. Uwaydat, MD</td>
</tr>
<tr>
<td>2:47 PM – 2:50 PM</td>
<td>RAPID FIRE PAPER 11</td>
<td>Pediatric Ocular Injury: Trends, Seasonality, and Burden from a Large Dataset at a Quaternary-Care Hospital</td>
<td>Blanche L. Kuo; Melissa Yuan, MD; Mikhayla Armstrong; Jennifer Welcher; Colin Lemire; Efren Gonzalez, MD; Ankoor S. Shah, MD, PhD</td>
</tr>
<tr>
<td>2:50 PM – 2:53 PM</td>
<td>RAPID FIRE PAPER 12</td>
<td>Optical Coherence Tomography Angiography in Pediatric Glaucomas and Glaucoma Suspects</td>
<td>Namrata Kadambi; Lauren Yoo; Brenda L. Bohnsack</td>
</tr>
<tr>
<td>2:53 PM – 2:56 PM</td>
<td>RAPID FIRE PAPER 13</td>
<td>Characterizing Peripapillary Hyper-Reflective Ovoid Mass-like Structures (PHOMS) in Pediatric Patients with Optic Nerve Pathologies</td>
<td>Jacqueline Jean-Chapman; Gena Heidary; Ryan Gise</td>
</tr>
<tr>
<td>2:56 PM – 2:59 PM</td>
<td>RAPID FIRE PAPER 14</td>
<td>Apparent Diffusion Coefficient (ADC) Differentiates Retinoblastoma from Coats Disease on MRI</td>
<td>Wendy Zhang; Gregg Lueder; Joshua Shimony; Margaret Reynolds</td>
</tr>
<tr>
<td>2:59 PM – 3:02 PM</td>
<td>RAPID FIRE PAPER 15</td>
<td>Semi-Automated Analysis of Dome-Shaped Macula in Premature and Full-Term Infants Using Handheld Swept-Source Optical Coherence Tomography</td>
<td>Joshua N. Dang; Yujiao Zheng; Emily K. Tam, MD; Karen Lee, MD; Sumner E. Lawson; Tatiana R. Monger; Leona Ding; Ruikang Wang, PhD; Michelle T. Cabrera, MD</td>
</tr>
</tbody>
</table>
### Saturday, April 1, 2023 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:02 PM – 3:05 PM</td>
<td>RAPID FIRE PAPER 16</td>
<td>The Effect of Erythropoietin on Retinal Function in Children Born Prematurely</td>
<td>Lorena Sisera, James V.M. Hanson, PhD; Jonas Füglistaler; Brida Jeltsch, MD; Cornelia Hagmann, Prof., MD; Jean-Claude Fauchere, Prof., MD; Rachel Heyard, PhD; Christina Gerth-Kahlert, Prof., MD</td>
</tr>
<tr>
<td>3:05 PM – 3:08 PM</td>
<td>RAPID FIRE PAPER 17</td>
<td>Risk Factors for the Development of Retinopathy of Prematurity – A National Analysis</td>
<td>Nitish Sood, BS; Arnav Goyal, BS; Steven Brooks, MD</td>
</tr>
<tr>
<td>3:08 PM – 3:11 PM</td>
<td>RAPID FIRE PAPER 18</td>
<td>Are Eyes with Nasal Location of Retinopathy of Prematurity at Initial Presentation More Likely to Eventually Require Treatment?</td>
<td>Nicole T. Nudelman, Zena Ibrahim; Sonia Scallon; Nicole Storey; Paul Feustel; Gerard Barry</td>
</tr>
<tr>
<td>3:11 PM – 3:14 PM</td>
<td>RAPID FIRE PAPER 19</td>
<td>Retinopathy of Prematurity Screening: Prevalence and Risk Factors of Ophthalmic Complications in Non-Treated Preterm Infants</td>
<td>Jacob I. Strelnikov, BA; Rakesh Rao, MD; Shahriyar Majidi, MD, PhD; Gregg Lueder, MD; Andrew Lee, MD; Margaret M. Reynolds, MD</td>
</tr>
<tr>
<td>3:14 PM – 3:17 PM</td>
<td>RAPID FIRE PAPER 20</td>
<td>The Bile Acid–Gut Microbiome Axis and Retinopathy of Prematurity</td>
<td>Tommy Bui, BS; Brian Stansfield, MD; Rachel Spurrier, DO; Menaka Thounaogam, PhD</td>
</tr>
<tr>
<td>3:17 PM – 3:20 PM</td>
<td>RAPID FIRE PAPER 21</td>
<td>The Efficacy and Safety of Prophylactic Agents in the Prevention of Retinopathy of Prematurity: A Systematic Review and Meta-analysis</td>
<td>Abeer K. Alhindi, Waleed T. Batais; Nada O. Taher; Abdullah A. Ghaddaf; Sarah A. Al-Ghamdi, Dr; Jumanah J. Homsi, Dr; Hashem S. Almarzouki, Dr; Mansour A. Qurashi, Dr</td>
</tr>
<tr>
<td>3:20 PM – 3:23 PM</td>
<td>RAPID FIRE PAPER 22</td>
<td>Effects of Improved Oxygen Management Practices and Technology on Management of Retinopathy of Prematurity in Sub-Saharan Africa – SIBA Phase 2</td>
<td>Sarthak Shah, BS; Sherwin Isenberg, MD; Martha Mkony, MD; Dupe Ademola-Popoola, MD; Scott Lambert, MD</td>
</tr>
<tr>
<td>3:23 PM – 3:26 PM</td>
<td>RAPID FIRE PAPER 23</td>
<td>Quantitative Comparison of Vessel Characteristics of Plus Disease Images Published in the International Classification of Retinopathy of Prematurity Over Time</td>
<td>Weiliang Wang, BS; Sharon F. Freedman, MD; David K. Wallace, MD, MPH; S. Grace Prakashaporn, MD, MPH</td>
</tr>
<tr>
<td>3:26 PM – 3:29 PM</td>
<td>RAPID FIRE PAPER 24</td>
<td>Ocular Blood Flow Association with Retinopathy of Prematurity Disease Staging using Laser Speckle Contrast Imaging</td>
<td>Danielle Sidelnikov, Tara Balasubramaniam; Daniel Shats; Ndidi-Amaka Onyekaba, MD; Urjita Das; Kristin Williams; Janet Alexander, MD</td>
</tr>
<tr>
<td>3:29 PM – 3:30 PM</td>
<td></td>
<td>Closing Remarks</td>
<td>Angeline Nguyen, MD</td>
</tr>
</tbody>
</table>
**Saturday, April 1, 2023 (continued)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:45 PM</td>
<td>Practical Considerations in the Management of VKC: A Case-Based Discussion</td>
<td>ASTOR BALLROOM 7</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Hot Topics in Pediatric Myopia</td>
<td>ASTOR BALLROOM 7</td>
</tr>
<tr>
<td>6:30 PM</td>
<td>Closing Reception Featuring the Children’s Eye Foundation of AAPOS Celebration</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
</tbody>
</table>

**Sunday, April 2, 2023**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 AM</td>
<td>Registration</td>
<td>NORTH REGISTRATION 5</td>
</tr>
<tr>
<td>6:30 AM</td>
<td>Breakfast</td>
<td>WESTSIDE BALLROOM 5</td>
</tr>
<tr>
<td>6:30 AM</td>
<td>Poster Viewing (2nd Set) (Authors not present)</td>
<td>LYCEUM COMPLEX 5</td>
</tr>
<tr>
<td>7:30 AM</td>
<td>Poster Removal (2nd Set)</td>
<td>LYCEUM COMPLEX 5</td>
</tr>
<tr>
<td>7:30 AM</td>
<td>Difficult Problems – Non-Strabismus</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
<tr>
<td>9:10 AM</td>
<td>Difficult Problems – Strabismus</td>
<td>BROADWAY BALLROOM 6</td>
</tr>
<tr>
<td>10:40 AM</td>
<td>End of the 2023 Meeting</td>
<td></td>
</tr>
</tbody>
</table>
# POSTERS

## First Set of Posters – Poster Session A

First set of posters will be displayed from 4:00 PM, Wednesday, March 29 to 11:30 AM, Friday, March 31

### AMBLYOPIA

| A1 | Avoiding Bias in Randomized Clinical Trials for Amblyopia  
**Bryson N. Tudor**  
Raymond T. Kракer; Jonathan M. Holmes |
| A2 | Natural Language Processing to Identify Amblyopia Patients in the Electronic Health Record  
**Michelle R. Hribar, PhD**  
Hannah Hsieh; Wei-Chun Lin, MD, PhD; Earnest Kim, PhD;  
Sunil Samuel, MD; Abigail Lucero, MS; Kellyn N. Bellsmith, MD;  
Leah G. Reznick, MD |
| A3 | Recovery from Amblyopia in Adulthood: A Meta-Analysis  
**Eric D. Gaier, MD, PhD**  
Madison P. Leet; Hannah H. Resnick, MD; Daniel Bowen;  
Deborah Goss; Mark F. Bear, PhD |
| A4 | Parental Experience in Amblyopia Treatment and its Correlation with Visual Acuity Outcomes: A Pilot Study  
**Allison R. Bradee, MD**  
Jackson Lemhouse, BS; Christa J. Prentiss, BS; Leah G. Reznick, MD;  
Michelle R. Hribar, PhD, MS; Kellyn N. Bellsmith, MD |
| A5 | Perceptual Learning Improves Vision in Adults with Amblyopia and Nystagmus  
**Sigal Zmujack Yehiam, MD**  
Idan Hecht, MD; Ora Abaev; Adi Einan-Lifshitz, MD; Eran Pras, MD |
| A6 | Tailoring Amblyopia Treatment with Visually Evoked Potentials (VEPs)  
**Marco H. Ji, MD**  
Fiorin Grigorian, MD; Adriana P. Grigorian, MD |
| A7 | Is Electrodiagnostic Testing Useful Following Treatment Failure or Suboptimal Outcome Post Amblyopia Management?  
A Retrospective Audit  
**Emily Robertson**  
Eoghan Millar; Ruth Hamilton |

### ANTERIOR SEGMENT

| A8 | Autism as a Cause of Nutritional Xerophthalmia  
**Samantha Marek, MD**  
Brian Forbes, MD, PhD; Kristin Hammersmith, MD |

| A9 | Brittle Cornea Syndrome: Clinical Characteristics and Management  
**Betul N. Bayraktutar, MD**  
Mohamed Khoidery, MD; Elena Franco, MD; Michelle Alabek;  
Hannah Scanga; Ken K. Nischal, MD |
| A10 | Corneal Neurotization as a Treatment for Neurotrophic Keratopathy Due to Congenital Causes  
**Charline S. Boente, MD, MS**  
Asim Ali, MD; Khoa D. Tran, MPH; Sara Williams, MSc;  
Manokama Agarwal, MD; Gregory H. Borschel, MD |
| A11 | Clinical Characteristics of Pediatric Keratoconus  
**Marybeth K. Farazdaghi, MD**  
Erick D. Bothun, MD; Brian G. Mohney, MD |
| A12 | Three-Year Outcomes of Corneal Collagen Cross-Linking under General Anesthesia in Pediatric and Developmental Delay Keratoconus Patients  
**Shreya Menon, AB**  
Tessnim Ahmad, MD; Neel D. Pasricha, MD; Maanasa Indaram, MD |
| A13 | Outcomes of Surgical Excision for Complex Ocular Choristoma in Children  
**Larissa Gouvea**  
Manokama Agarwall; Kamiar Mireskandari; Asim Ali |
| A14 | Technique for the Management of Extensive Ocular Surface Lipodermoid Involving the Cornea in Children  
**Elena Franco**  
Mehgan Gagrani; Vaitheeswaran G. Laligud; Parth R. Shah;  
Phoebe Lenhart; Rahul Bhole; Ken K. Nischal |
| A15 | Ciclosporin 1mg/ml Cationic Emulsion Reduces Need for Topical Corticosteroids in Vernal, Atopic and Blepharokeratoconjunctivitis  
**Annegret H. Dahlmann-Noor, MD, PhD**  
Melanie Hingorani, MD, FRCOphth; Kirithika Muthusamy, FRCOphth;  
Clare Roberts, FRCOphth; Virginia Calder, PhD |

### CATARACT

| A16 | Socioeconomic Status and Visual Outcomes in Infantile Aphakia  
**Cigdem Ozturk**  
Karen Lee; Jade Minor; Nidhi Rana; Kammi Gunton |
| A17 | Assessing the Effect on Visual Quality in Pediatric Cataracts by the Use of a Novel Tool: Double Pass Aberrometer  
**Nur Azem**  
Ana Navarrete; Samer Abu-Tair; David Smadjia; Irene Antebay |
A18 An Evaluation of the Prevalence of Systemic Conditions in Patients with Bilateral Congenital Cataracts
   Erica Luse
   Yuli Lim; Kimberly Yen

A19 Pathologic Calcification Contributes to the Formation of Pediatric Cataracts of Different Etiologies
   Sarah H. Rodriguez
   Peter J. Minogue; Viviana M. Berthoud; Eric C. Beyer

A20 Mydriasis in Paediatric Cataract Surgery using Intracameral Solution
   Jaspreet Sukhija, MD
   Savleen Kaur; Srishti Raj

A21 Surgical Management and Outcomes of Persistent Fetal Vasculature
   Nallely R. Morales-Mancillas, MD
   Serena Wang, MD

A22 The Rate of Emmetropization after Early Cataract Removal: A Comparison Between Eyes with PFV and Eyes with Simple Congenital Cataract
   Ana Navarrete
   Hadas Mechoulam; Milka Matanis-Suidan; Ran David; Irene Anteby

A23 A Model to Predict Refractive Shift After Ocular Growth in Children Undergoing Bilateral Cataract Surgery
   Emily Y. Ye, MSCR
   Rupal H. Trivedi, MD, MSCR; Bethany Wolf, PhD; M. Edward Wilson, MD

GENETICS

A24 Are Larger Panels better? An Analysis of Comprehensive Next-Generation Sequencing Multigene Panels for the Diagnosis of Inherited Ocular Conditions
   Maria F. Villalba
   Ta C. Chang

A25 Genetic Testing Identified Causative Variants in 20% of Early-Onset Bilateral Cataracts Cases
   Erin D. Stahl, MD
   Jamie C. Fox, PhD; Dana M. Talsness, PhD; Sharon F. Freedman, MD; Bharti R. Nihalani, MD; Deborah K. VanderVeen, MD

A26 Prevalence of Cerebrotendinous Xanthomatosis (CTX) Among Patients Diagnosed With Juvenile-Onset Idiopathic Bilateral Cataracts
   Sharon F. Freedman, MD
   Bharti R. Nihalani, MD; Erin D. Stahl, MD; Deborah K. VanderVeen, MD

A27 Diagnostic Yield of Retinal Dystrophies in a Diverse Pediatric Population
   Charles Miller
   Brenda Bohnsack, MD; Safa Rahmani, MD; Valerie Castelluccio; Hantamalala Ralay-Ranaivo; Jennifer L. Rossen, MD

A28 Clinical and Molecular Findings in Children with a Diagnosis of Blue Cone Monochromacy with Longitudinal Follow-up
   Rommel Izaguirre Pereira, MD
   Preston Land, BS; Diana S. Brightman, PhD, MS; Robert A. Sisk, MD; Terry L. Schwartz, MD; Virginia Miraaldi Utz, MD

A29 Outcomes and Challenges of Voretigene Neparvovec Gene Therapy in the Paediatric Population
   Elisabeth De Smit
   Weijen Tan; Sian Handley; James Wawrzynski; Dorothy Thompson; Robert Henderson

A30 Patau Syndrome and the Development of Retinal Detachments
   Rachel Scott
   Zachary Richards; Emily McCourt

A31 Ophthalmic Features of CHARGE Patients Diagnosed with Cortical Visual Impairment
   Jillian Eltzroth, MPH
   Eniolami Dosunmu, MD

GLAUCOMA

A32 Changes in Intraocular Pressure due to Body Position in Healthy Pediatric Population
   Stephanie Suzanne S. Garcia, MD
   Theo Stoddard-Bennett; Philip Villanueva, CO; Soh Youn Suh, MD; Stacy Pineles, MD; Federico Velez, MD; Joseph L. Demer, MD, PhD; Simon Fung, MD

A33 Corneal Biomechanics and Endothelial Cell Characteristics in Pediatric Glaucomas and Glaucoma Suspects
   Lauren Yoo
   Namrata Kadambi; Brenda L. Bohnsack

A34 Long-Term Glaucoma-Related Adverse Events following Congenital Cataract Surgery at Age 1-6 Months with Intraoperative Intracameral Triamcinolone
   Sonal Dangda, MBBS, MS (Ophthalm)
   Ashley K. Sherman, MA; Erin D. Stahl, MD

A35 Association between Vascular and Structural Parameters by Optical Coherence Tomography Angiography in Primary Congenital Glaucoma
   Rosario Gomez de Liaño
   Laura Morales Fernandez; Pilar Perez Garcia
| A36 | Characterization of the Iris, Ciliary Body, and Anterior Segment Angles in Congenital Glaucoma using Ultrasound Biomicroscopy: A Case-Control Study  
Radhika Gholap, BS  
Esther Xu, BA; Libby Wei, MD; Taylor Kolosky, BS;  
Mohamad Jaafar, MD; Marlet Bazemore, MD;  
William Madigan, Jr., MD; Janet Alexander, MD |
| A37 | Bruch Membrane Opening Minimum Rim Width in Pediatric Glaucoma using Overhead-Mounted Spectral Domain Optical Coherence Tomography: A Pilot Study  
Saraniya Sathiamoorthi  
Allison Umfress; Bo Wang; Sharon Freedman; Mays El-Dairi;  
Tanya Glaser |
| A38 | Virtual Reality Game-Based Automated Perimetry Performance in Healthy Children  
Samuel Alvarez, MD  
Bo Wang, MD, PhD; Emma Taleb, BA; Nathan L. Cheung, OD;  
Chelsea A. Scriven, OD; Yos Priestley, OD; Mays El-Dairi, MD;  
Sharon F. Freedman, MD |
| A39 | Retest-Variability of a Virtual Reality Perimeter in Children  
Sylvia L. Groth, MD  
Jaron K. Pruett, MS3; Edward F. Linton, MD;  
Sean P. Donahue, MD, PhD |
| A40 | Transient Narrow Angle Glaucoma of Prematurity: A Novel Glaucomatous Process in Premature Infants  
Adam Jacobson, MD  
David Skanchy, MD; Brenda L. Bohnsack, MD, PhD |
| A41 | Ocular Hypertension and Glaucoma in Pediatric Uveites  
Tiffany A. Chen, MD  
Abdelrahman M. Elhusseiny, MD; Andrew D. Brown, OD;  
Brita S. Rook, MD; Ahmed B. Sallam, MD, PhD;  
Bharti R. Nihalani, MD |
| A42 | Eye Tracking and Teller Acuity in Children with Cortical/Cerebral Visual Impairment (CVI)  
Mark S. Borchert, MD  
Melinda Chang |
| A43 | Relevance of MRI Imaging in Paediatric Ophthalmology  
Ryad Adrar, MD  
Lecler Augustin MD, PhD;  
Zoe Dobbelts, MD; Matthieu P. Robert, MD, PhD, Pr;  
Martini Ken, MD; Caputo Georges, MD, PhD; Amandine Barjol, MD |
| A44 | Sensorimotor Outcomes in Pediatric Patients with Dorsal Midbrain Syndrome  
Marguerite C. Weintert, MD  
Ryan Gise, MD; Eric D. Gaier, MD, PhD; Gena Heiday, MD, PhD |
| A45 | Ocular Torsional Instability – A Neurodiagnostic Sign of Prenuclear Disease  
Michael C. Brodsky |
| A46 | Longitudinal Clinical Features of Pediatric Hereditary Optic Neuropathy  
Aashwariya A. Gulani  
Batool Sahar Emadi; Ryan Gise; Gena Heiday; Eric D. Gaier |
| A47 | Artificial Intelligence to Classify Fundus Photographs of Pediatric Pseudopapilledema and True Papilledema  
Melinda Chang, MD  
Gena Heiday; Shannon Beres; Stacy Pineles; Kleanthis Avramidis;  
Mohammad Rostami; Shrikant Narayanan |
| A48 | The Diagnostic Utility of Point-of-Care Ultrasound (POCUS) and Optical Coherence Tomography (OCT) for Papilledema in Children  
Hannah H. Chiu  
Michael J. Wan; Mark O. Tessaro; Adrienne Davis |
| A49 | An Analysis of Papilledema Using an OCT Scan in the Pediatric Population  
Abhinaya Bhardh  
Dorothy Hendricks; Sharon Lehman; Jing Jin |
| A50 | Papilledema and Pseudopapilledema in Children: Vascular Density Analysis with OCT-Angiography  
Hugo Bouvarel  
Antoine Gavoille; Nicolas Pianton; Claudia Laitang; Carole Burillon;  
Aude Taleb |
| A51 | Evaluation of Papilledema Versus Pseudopapilledema in Children  
Kelsey T. Chen, DO  
Kaitlin Ziadeh, BS; Shaza N. Al-Holou, MD; Amanda Ismail, MD;  
Reetcha S. Bahl, MD |
| A52 | Papilledema Secondary to Idiopathic Intracranial Hypertension in Children with Optic Disc Drusen  
Robert G. Tauscher, MD  
Fiorella R. Gomez, BS; Mehdi Tavakoli, MD |
| A53 | The Role of Enucleation in the Development of Nystagmus in Children with Retinoblastoma  
Andrzej Olechowski  
Emma Reed; Zishan Naeem; Mandeep S. Sagoo; M. Ashwin Reddy |

**NEURO-OPHTHALMOLOGY – OPTIC NERVE**

| A54 | Sensorimotor Outcomes in Pediatric Patients with Dorsal Midbrain Syndrome  
Marguerite C. Weintert, MD  
Ryan Gise, MD; Eric D. Gaier, MD, PhD; Gena Heiday, MD, PhD |
| A55 | Ocular Torsional Instability – A Neurodiagnostic Sign of Prenuclear Disease  
Michael C. Brodsky |
| A56 | Longitudinal Clinical Features of Pediatric Hereditary Optic Neuropathy  
Aashwariya A. Gulani  
Batool Sahar Emadi; Ryan Gise; Gena Heiday; Eric D. Gaier |
| A57 | Artificial Intelligence to Classify Fundus Photographs of Pediatric Pseudopapilledema and True Papilledema  
Melinda Chang, MD  
Gena Heiday; Shannon Beres; Stacy Pineles; Kleanthis Avramidis;  
Mohammad Rostami; Shrikant Narayanan |
| A58 | The Diagnostic Utility of Point-of-Care Ultrasound (POCUS) and Optical Coherence Tomography (OCT) for Papilledema in Children  
Hannah H. Chiu  
Michael J. Wan; Mark O. Tessaro; Adrienne Davis |
| A59 | An Analysis of Papilledema Using an OCT Scan in the Pediatric Population  
Abhinaya Bhardh  
Dorothy Hendricks; Sharon Lehman; Jing Jin |
| A60 | Papilledema and Pseudopapilledema in Children: Vascular Density Analysis with OCT-Angiography  
Hugo Bouvarel  
Antoine Gavoille; Nicolas Pianton; Claudia Laitang; Carole Burillon;  
Aude Taleb |
| A61 | Evaluation of Papilledema Versus Pseudopapilledema in Children  
Kelsey T. Chen, DO  
Kaitlin Ziadeh, BS; Shaza N. Al-Holou, MD; Amanda Ismail, MD;  
Reetcha S. Bahl, MD |
| A62 | Papilledema Secondary to Idiopathic Intracranial Hypertension in Children with Optic Disc Drusen  
Robert G. Tauscher, MD  
Fiorella R. Gomez, BS; Mehdi Tavakoli, MD |
| A63 | The Role of Enucleation in the Development of Nystagmus in Children with Retinoblastoma  
Andrzej Olechowski  
Emma Reed; Zishan Naeem; Mandeep S. Sagoo; M. Ashwin Reddy |

**NYSTAGMUS**

A53 | The Role of Enucleation in the Development of Nystagmus in Children with Retinoblastoma  
Andrzej Olechowski  
Emma Reed; Zishan Naeem; Mandeep S. Sagoo; M. Ashwin Reddy |
A54 Genetic Testing for Initial Evaluation of Idiopathic Infantile Nystagmus
Alexis M. Flowers
Nancy N. Benegas; Anvesh C. Reddy; Allison C. Umfress; Dolly A. Padovani-Claudio; Sean P. Donahue

A55 Visual Outcomes and Clinical Features of Infants with History of Intrauterine Exposure to Drugs of Abuse (IUDE) and Nystagmus
Alexandra Sebren, MD
Veeral Shah, MD, PhD

OCULOPLASTICS

A56 Ocular Involvement in Pediatric Rhabdomyosarcoma – A Single Center Review
Sybille Graef, MD
Dan DeAngelis, MD; Abha A. Gupta, MD; Michael J. Wan, MD

A57 Facial Nerve Palsy in Children: Risk Factors for Severe Visual Loss and Exposure Keratopathy
Manju Bhate
Anthony Vinp Dass; Swati Singh

A58 Pediatric Ophthalmologic Outcomes of Marcus Gunn Jaw Winking Synkinesis
Sameera Nadimpalli
Kevin Firl; Adam Jacobson

A59 Frequency of Chalazion Surgery in Children First Treated with Oral Antibiotics
David I. Silbert
Sina Khalili; Heather Modjesky

PRACTICE AND WORKFORCE MANAGEMENT

A60 Publication Rates for Abstracts Presented at the AAPOS Annual Meeting
Oscar A. Cruz, MD
Joshua S. Kim, BS; Scott A. Larson, MD; Tiffany S. Fung, BS

Lauren Hucko
Sarah Pajek; Hailey Robles-Holmes; Arjun Watane; Jayanth Sridhar; Kara Cavuoto

A62 Pediatric Chief Medical Officer/Medical Director Perspectives on the Role of Pediatric Ophthalmologists in their Hospital
Arsalan A. Ali
Eric A. Packwood, MD

PRACTICE MANAGEMENT – PUBLIC HEALTH

A63 Discrimination, Bullying and Sexual Harassment Experienced by Pediatric Ophthalmologists
Angeline M. Nguyen, MD
Sarah Pike; Mark Reid, PhD; Jesse Berry, MD; Jessica Chang, MD; Jenny Chen, MD; Annie Nguyen, MD; Melinda Y. Chang, MD

A64 Edutainment Videos for Teaching Pediatric Ophthalmology and Strabismus to Medical Students and Residents: A Pilot Study
Joy Li, AB
Angeline M. Nguyen, MD; Ajay Soni, MD; Michelle T. Cabrera, MD; Matthew Gearinger, MD; Evan Silverstein, MD; Annie Kuo, MD; Thomas C. Lee, MD; Sudha Nallasamy, MD

A65 At-Home Pupil Dilation During the COVID-19 Pandemic in the Pediatric Population
Rina Su, MD
Sylvia R. Kodsi, MD; Hal Schwartzstein, DO; Stacey J. Kruger, MD

A66 Patient Characteristics Associated with Telemedicine Utilization in Pediatric Ophthalmology Visits During the COVID-19 Pandemic
Jenay Yuen
Neha Pondicherry; Sandra Perez, MD; Sudha Nallasamy, MD; Allison R. Loh, MD; Alejandra G. de Alba Campomanes, MD, MPH

A67 Socioeconomic Analysis of Pediatric Closed-Globe Injuries at a Quaternary Care Hospital
Melissa Yuan, MD
Blanche Kuo; Mikhayla Armstrong; Jennifer Welcher; Colin Lemire; Efren Gonzalez, MD; Ankoor S. Shah, MD, PhD

A68 An Analysis of Pediatric Ophthalmology Content on Instagram
Rucha K. Borkhetaria, BS
Amanda L. Ely, MD

A69 Social Media and the Strabismus Surgery Experience
Tiffany Eatz
Meghana Kalavar, MD; Michael Birnhak; Hasenin Al-khersan; Jayanth Sridhar, MD; Kara M. Cavuoto, MD

A70 Characterization of Strabismus in the Veteran Health Administration System
John H. Lillvis
Robert Finley; Leah A. Owen; Margaret DeAngelis

A71 Evaluation of Publicly Available Online Source Material for Amblyopia
Sarah McCord, MD
Courtney Kraus, MD
REFRACTIVE ERROR

A72 Evolution of Myopia in Children with Stickler Syndrome
Matthieu P. Robert
Alexandre Dentel; Alejandra Daruich; Olivia Xerri; Dominique Bremond-Gignac

A73 Effect of COVID-19 Lockdown on Myopia Progression of School-aged Children: A Retrospective Chart Review
Dalia El Hadi, MD
Hassan Moukhadder, MD; Hana Mansour, MD; Zahi Wehbi, MD; Alaa Bou Ghannam, MD; Christiane Al-Haddad, MD

A74 Pediatric Myopia Prevalence Before and After the Initial COVID-19 Pandemic
Eva Teng
Christina Scelfo

A75 Myopia Control with Extended Depth of Focus Multifocal Contact Lenses
Carolyn R. Lederman, MD

A76 Myopia Control - A Retrospective Analysis of Low-Dose Atropine and Peripheral Defocus Contact Lenses at an Urban Academic Institution
Noreen Shaikh, OD
Magdalena Stec, OD; Brenda Bohnsack, MD, PhD

RETINA

A77 Peripheral Hemorrhagic Detachment of the Internal Limiting Membrane in Abusive Head Trauma
Adam Rockter, BS
Ralph Eagle, MD; Albert Chu, MD; Alex V. Levin, MD

A78 The Effect of Erythropoietin on the Macular Structural and Vascular Characteristics in Children Born Prematurely
Brida M. Jeltsch, MD
James V.M. Hanson, PhD; Jonas Füglistaler; Lorena Sisera; Cornelia Hagmann, Prof., MD; Jean-Claude Fauchère, Prof., MD; Rachel Heyard, PhD; Christina Gerth-Kahlert, Prof., MD

RETINOBLASTOMA

A79 Visual Function and Quality of Life of Retinoblastoma Survivors
Jacob Wise
Robert Hayashi; Tiffany Wu; Amer Al Badawi; Allison King; Mae Gordon; Gregg Lueder; Margaret Reynolds

A80 Staging Mexican Retinoblastoma Patients Using the Updated TNM Classification
Eduardo Camacho-Martínez
Marco Antonio Ramírez-Ortiz

A81 Histologic Findings in Retinoblastoma with Magnetic Resonance Imaging Detected Post-Laminar Optic Nerve Invasion
Chanyanut Phlaiphichit, MD
Phanthipha Wongwai, MD, PhD; Nipaporn Tewattanarat, MD; Teerawatchara Rerksoontree, MD; Chaiwat Aphivatanasiri, MD; Somkiat Asawaphureekorn, MD; Supinda Koonmee, MD

RETINOPATHY OF PREMATURITY

A82 Validation of a Published Model to Reduce Duration of Retinopathy of Prematurity Screening
Kelly L. Ruland, MD
Sean P. Donahue, MD, PhD

A83 Incidence and Implications of Retinopathy of Prematurity Outside Gestational Age and Birthweight Screening Criteria in a Single Metropolitan Area
William Johnson, MD
Derek Bitner, MD; Connor Ericksen, MD

A84 Application of the Postnatal Growth and Retinopathy of Prematurity (G-ROP) Screening Criteria in the Tertiary Hospital in Bangkok, Thailand
Chavisa Bunyavee, MD
Kornwipa Hemarat, MD

A85 Retrospective Evaluation of G-ROP and CO-ROP Screening Algorithms in University of Pittsburgh Medical Center Cohort
Meghal Gagrani
Jamila G. Hiasat; Amgad Eldib; Matthew S. Pihlblad

A86 Artificial Intelligence-Assisted Detection of Referral-Warranted Retinopathy of Prematurity Using Smartphone-Based Retinal Fundus Cameras
Aaron S. Coyner
Emily D. Cole; Benjamin Young; Parag K. Shah; RV Paul Chan; Michael F. Chiang; Jayashree Kalpathy-Cramer; John P. Campbell

A87 Monitoring Changes in Retinopathy of Prematurity Severity in South India Using Artificial Intelligence
John P. Campbell
Mallory deCampos-Stairiker; Aaron Coyner; Aditi Gupta; Minn Oh; Parag Shah; Jayashree Kalpathy-Cramer; Paul Chan

A88 Comparison of Two Smartphone-Based Imaging Technologies with Widefield Fundus Imaging for Telemedicine in Retinopathy of Prematurity
Benjamin K. Young
Emily D. Cole; Parag Shah; Susan Ostmo; Prema Subramanian; Andrew Tsai; Aaron S. Coyner; RV Paul Chan; Michael F. Chiang; Jayashree Kalpathy-Cramer; J. Peter Campbell
A89  Association of Device Measured Fibrovascular Ridge Thickness and Clinical Disease Stage in Retinopathy of Prematurity
Susan R. Ostmo, MS
Thanh-Tin P. Nguyen; Shuibin Ni; Archeta Rajagapalan; Aaron S. Coyner; Mani Woodward; Michael F. Chiang; Yali Jia; David Huang; John P. Campbell; Yifan Jian

A90  Cost-Effectiveness of Addressing Retinopathy of Prematurity in an African Country
Connor J. Alder
Francis Mutangana, MD; Edmund R. Becker, PhD; Neil S, Fleming, PhD; Sherwin J. Isenberg, MD; Scott R. Lambert, MD; Tahvi D. Frank, MPH

A91  Pain and Stress Responses During Retinopathy of Prematurity Screening: Non-Contact Laser Speckle Contrast Imaging versus the Standard of Care
Urjita Das
Tara Balasubramanian; Daniel Shats; Danielle Sidelnikov; Ndidi-Amaka Onyekaba, MD; Sripriya Sundararajan, MD; Janet L. Alexander, MD

STRABISMUS

A92  Comparison of the Timeliness of Diagnosis and Treatment of Strabismus Based on Race and Preferred Language
Emily A. McCourt, MD
Tiffany N. Lien; Helio V. Neves da Silva; India V. Bonner; Chiagziem Anigbogu; Jennifer Patnaik, PhD

A93  Comparison of Reading Speed in Patients with Strabismus without Amblyopia versus Controls
Vishaal Bhambhwani, MD
Daniel Lamoureux; Sarah Yeo

A94  But Doctor, Will I Be Able to Drive?
Nicole M. Jody, MD
Jolene Rudell, MD, PhD; David Granet, MD

A95  Strabismus Detection and Telemedicine
Rachel L. Spurrier, DO
Mary M. Moses, MD; Steven Brooks, MD

A96  A Free Software for Measurement of Horizontal Angle of Strabismus Using Digital Pictures
Chloé Couret

A97  Association of Strabismus with Neurodevelopmental Disorders Among Pediatric Patients
Sara Emami, MSc
Yoon H. Lee, MD; Michael Repka, MD; Marcy F. Borlik, MD; Federico G. Velez, MD; Fei Yu, PhD; Anne L. Coleman, MD, PhD; Stacy L. Pineles, MD, MSc

A98  The Incidence, Clinical Features, and Management of Essential Infantile Esotropia in the United Kingdom
Patrick Watts
Damien Yeo

A99  Evaluation of Factors related to Decompensation in Initially Well Aligned Patients with Accommodative Esotropia
Osama Al Deyabat, MBBS
Yusairah Basheer; Mehmet Mocan, MD

STRABISMUS SURGERY

A100  Can Residents Develop Basic Strabismus Surgery Competencies without Any Face-to-Face Teaching?
Rebecca L. Jones
John D. Ferris

A101  Strabismus Surgery Simulation Study: Review of the Literature and Comparative Anatomical Study of Eyes used for Strabismus Surgery Simulation
Lisa S. Thompson, MD
Kenneth W. Wright, MD; Yi Ning J. Stube, MD, MS, FRCSC

A102  Simplified Approach to Amniotic Membrane for Restrictive Strabismus Associated with Conjunctival Scarring and Loss of Fornix
Chelsea L. Reighard, MD
Steven M. Archer, MD

A103  Single Minimal Conjunctival Incision for Rectus Muscles
Jaime Tejedor
Francisco J. Gutiérrez-Carmona

A104  Early Successful Strabismus Surgery May Decrease the Risk of Anxiety and Depression in Teenagers
Hal R. Schwartzstein
Yoav Glidai; Stacey J. Kruger; Sylvia R. Kodsi

A105  Correlation of Goal-Determined Metric and Patient Satisfaction with Strabismus Surgery Outcomes
Linda R. Dagi, MD
Abdelrahman M. Elhusseiny, MD; Surya Agrawal, MPH; David G. Hunter, MD, PhD; Steven J. Staffa, MS; David Zurakowski, PhD

A106  Patient Satisfaction with Strabismus Surgery Postoperative Care via Telemedicine
Luisa M. Hopker
Carolina Zuccolotto; Jessica Queiroz; Julia Rossetto

A107  Evaluating Surgical Outcomes and Associated Risk Factors in Infantile Esotropia
Nadia Abbass, MA
Andy Kuo; Zeina Salem, MD; Faruk Orge, MD
A108  Risk Associations and Surgical Outcomes in a Retrospective Study of Divergence Insufficiency Esotropia
Brandon Kennedy, MD
Marielle Young, MD; Leah Owen, MD

A109  Exploring the Need for Correction Factors with Bilateral Medial Rectus Recession in Combination with Oblique Muscle Involvement in Esotropic Patients
Neha Sharma
Zeina M. Salem, MD; Nadia Abbass; Faruk Orge, MD

A110  Medial Rectus Posterior Fixation Suture Reduces the Angle of Esotropia at Distance and Near
Moustafa S. Abdelhafez, FRCS, MD
Mohamad Elridy, FRCS; Sameh Sabahy, FRCS; Mahmoud Abdelhafez

A111  The Long-Term Surgical Outcomes of Esotropic Duane Retraction Syndrome Type 1
Jihae Park, MD
Hee Kyung Yang; Jeong-Min Hwang

A112  Early Surgery for Acquired Non Accommodative Esotropia
David Barnes, MD
Alan B. Richards, MD

A113  Early Post-Operative Angle as a Predictor of Surgical Success in Patients with Intermittent Exotropia
Surinder S. Dosanjh
Akshay Narayan; Jonathan Dominic; Saurabh Jain

A114  Surgical Outcomes of Medial Rectus Plication Versus Resection in the Treatment of Exotropia
Andrew Fischer, MD
Twinkle Mehta, MD; Marla Shainberg, CO; Emilia Varrone, MD; Sarah Devaro, MD; Natalie Weil, MD; Amy Hutchinson, MD; Jason Peragallo, MD; Phoebe Lenhart, MD

A115  Evaluation of True Muscle Transplant versus Novel Hang Back Recession in Extra-Large Angle Exotropia: A Randomised Comparative Clinical Trial
Amar Pujari, MD

A116  Outcomes for Two-Muscle Surgery in Large-Angle and Very Large-Angle Exotropia
David D. Chong
Blake Boehm; Urvi Gupta; Zeina Salem, MD; Jason Singer; Faruk Orge, MD

VISION ASSESSMENT – VISION SCREENING

A117  Evaluation of Distance Stereoacuity in Children Aged 4-17 Years with a Novel Digital Application
Guy Barnett-Itzhaki, CO
Zohar Barnett-Itzhaki, PhD; Noa Ela-Dalman, MD

A118  A Novel Pediatric Eye Test to Assess the Visual Function in a Global Manner: A Prospective Study
Nikolaos Kozais, MD, PhD
Magdalini Triantafylla, MD, MSc; Athina Kozei; Christina Tsenikoglou, MD; Evangelia Panagiotou, PhD; Panagiota Pouliou, MD; Sofia Kozei; Straton Tyradellis, MD, MSc

A119  Validation of Cloudscaper Optotypes versus LEA Symbols for Virtual Visual Acuity Measurement in Children 3 to 16 Years Old
Cristiana Ronconi, MD
Julia D. Rosseto, MD, PhD; Luisa M. Hopker, MD, PhD; Ana Carolina S. Carneiro, MD; Bárbara S. Ventorin, MD; Paulo Schor, MD, PhD

A120  Utility of the Red Reflex Test for Detecting Ophthalmic Pathology in the Pediatric Population
Monica Manrique
Isabel Pinnell; Catherine Sano; Md Sohel Rana; Heather De Beaufort; William P. Madigan
Second Set of Posters – Poster Session B
Second set of posters will be displayed from 4:30 PM, Friday, March 31 to 8:00 AM, Sunday, April 2

**AMBYLOPIA**

**B1** IoT Patch with Built-In Micro-Sensor: Real-Time Monitoring of Occlusion Therapy  
*Songa Che*  
*Ji-Woo Hwang; A-Uk Kim; Yung-Ju Yoo*

**B2** Binocular Treatment for Amblyopia: A Meta-Analysis of Randomized Clinical Trials  
*Matilde Roda*  
*Nicola Valsecchi; Natalie di Geronimo*

**B3** Oculomotor Abnormalities and Contrast Balanced Dichoptic Treatments in Amblyopia  
*Fatema Ghasia*  
*Sinem Beylergil; Jordan Murray; Gokce Cakir; Alexa Kaudy; Aasef Shaikh*

**B4** Factors Associated with Visual Acuity Improvement with a Binocular Digital Therapeutic for Amblyopia  
*Isdin Oke*  
*Eric D. Gaier; Michael X. Repka*

**B5** Optical Coherence Tomographic Angiography-Based Retinal Vascular Density Changes at the Macula in Children with Unilateral Amblyopia  
*Gorka Sesma, MD*  
*Tasnim Almairi, MD; Heba Khashoggi, OD; Fahad Aljohar, OD*

**ANTERIOR SEGMENT**

**B6** Scleral Lens Visual Rehabilitation After Selective Endothelial Removal in Peters’ Anomaly  
*Lucie B. Moore*  
*Penny Straughn, OD; Casey Beal, MD*

**B7** Exposure Keratopathy in Hospitalized Patients at a Tertiary Care Children’s Hospital  
*Leyla Yavuz Saricay*  
*Ryan Gise; Isdin Oke; Eric Gaier; Bharti R. Nihalani; Joseph Griffith; Ankoor S. Shah; Gena Heidary*

**B8** Rise in The Incidence of Pediatric Severe Blepharokeratoconjunctivitis During The COVID-19 Pandemic  
*Asim Ali*  
*Ramez Barbara; Sina Khalili; Kamiar Mireskandari*

**B9** Blepharokeratoconjunctivitis Outcomes in Children  
*Kamiar Mireskandari*  
*Ramez Barbara; Sina Khalili; Asim Ali*

**CATARACT**

**B10** Preliminary Outcomes of Cyclosporine Ophthalmic Emulsion 0.05% Use in Pediatric Blepharokeratoconjunctivitis  
*Tiffany L. Huang, MD*  
*Liane O. Dallalzadeh, MD; Simon S. Fung, MD, MA, FRCOphth*

**B11** Efficacy of Cyclosporine A Cationic Emulsion (CsA CE) in Patients with Vernal Keratoconjunctivitis (VKC) not Needing Rescue Medication: Pooled VEKTIS  
*Kara M. Cauvuto, MD*  
*Dominique Bremond-Gignac, MD, PhD, FEBO; Serge Doan, MD; Pierre-Jean Pisella, MD; Sherif El-Harazi, MD, MPH; Andrea Leonard; MD*

**B12** Usability of Delivery Aid for Vernal Keratoconjunctivitis Single-Dose Treatment  
*Keyla N. Lebron, MD, MMEd*  
*Annegret Dahlmann-Noor, Dr, Med, PhD, FRCOphth, FRCS (Ed) DipMedEd*

**B13** Clinical Outcomes in Pediatric Tubulointerstitial Nephritis and Uveitis Syndrome (TINU) – A Multicenter Review  
*Mallory Mandel, MD, MPH*  
*Abdelrahman Elhusseiny, MD; Stefanie Davidson; Adam Rockter; Alex Levin; Laura Huang; Crystal Cheung; Erin Stahl; Ashley Cooper; Jing Jin; Catherine Jordan; Jennifer Jung; Virginia Utz; Sheila Angeles-Han; Isdin Oke; Bharti Nihalani-Gangwani, MD*

**B14** Comparison of Uveitis Incidence by Medication in Juvenile Idiopathic Arthritis and Implications for Screening  
*Brenda L. Bohnsack*  
*Henry S. Bison; Timothy Janets; David L. Zhang; Jessica Song; Hans Gao*

**B15** Leukemic Relapse in the Anterior Segment of the Eye: A Systematic Review & Meta Analysis  
*Nathan J. Brown, BS*  
*Todd R. Christensen, OD; Thomas B. Gillette, MD; Andrew W. Stacey, MD, MSc*

**B16** Characterization of the Anterior Eye in Trisomy 21 Patients  
*Esther M. Xu*  
*Dhruv M. Shah; Radhika S. Ghola; Moran R. Levin; Grace Forbes; Taylor Kolosky; Janet L. Alexander*

**B17** A Comparison of Aphakic Contact Lenses in Children – 1 Year Follow Up Data  
*Magdalena Stec, OD*  
*Noreen Shaikh, OD; Brenda Bohnsack, MD, PhD*
B18 Primary Iris Claw Intraocular Lens Implantation in Children
Claudia Castro, MD
Larissa Gouvea, MD; Sara Williams, MSc; Asim Ali, MD

B19 IOL Calculation in Pediatric Cataract with Immersion Ultrasound and SRK/T Formula in a Mexican Population
Yordan R. Miranda-Cepeda
Andrea Rangel-Padilla; Sara Gonzalez-Godinez; Hector J. Morales-Garza; Indumathi Krishnan-Sivadoss; Cinthya E. Parra-Bernal; Eugenia M. Ramos-Davila; Juan H. Paez-Garza

B20 Surgical and Visual Outcomes of Lensectomy with and without IOL Implantation in Microspherophakia: A Retrospective Analysis
Jylan Gouda, MD
Christina S. Farag, M.Sc; Dina Elfayoumi, MD; Ghada Gawdat, MD; Yasmine Elsayed, MD; Amanne E. Faisal, MD; Hala Elhilali, MD

B21 Safety of Simultaneous Bilateral Intraocular Surgery in Pediatric Patients: Long-Term Outcomes
Serena Wang, MD
Nallely R. Morales-Mancillas, MD

B22 Incidence and Risk Factors of Retinal Detachment after Pediatric Cataract Surgery (A Tertiary Center Model)
Heba Fouad
Jylan Gouda; Christina Ibrahim; Rasha Zedan; Ahmed Awadein; Heba Elgendy; Hala Elhilali

B23 Prevalence of Retinal Detachment in Pediatric Cataract Population
Malack Hamade
Rupal Trivedi, MD; M. Edward Wilson, MD

B24 Risk Factors for Endophthalmitis after Pediatric Cataract Surgery Using Insurance Claims Database
Lindsay Y. Chun, MD
Chuanhong Liao, MS; Sarah M. Hilker Rodriguez, MD, MPH

B25 Glaucoma following Infantile Cataract Surgery
Bharti R. Nihalani-Gangwani, MD
Deborah K. VanderVeen, MD

GENETICS

B26 Intravitreal Cerliponase Alfa for the Treatment of Neuronal Ceroid Lipofuscinosis Type 2 (CLN2) Related Retinal Dystrophy: A First in Man Report of Ocular Enzyme Replacement
Ana Catalina Rodriguez Martinez, MD
James Wawrzynski; Dorothy Thompson; Richard Bowman; Paul Gissen; Robert Henderson

B27 NPH1-Related Ciliopathies: A New Case and Major Review of the Ophthalmic Manifestations of 147 Reported Cases
Shivania Reddy
Russell Simmers; Arth Shah; Natario Couser

GLAUCOMA

B28 The Frequency and Specificity of Choroidal Nodules in Ocular Coherent Tomography (OCT) in Neurofibromatosis -1 (NF-1) Patients Compared to Controls
Aarti Vyas, CO
Sung Yoon, OD; Brent A. Siegel, BS; Lance M. Siegel, MD, FAAO, FAAP

B29 Ophthalmic Features of Lamb-Shaffer Syndrome
Yoav Glidai
Moe H. Aung; Jane Edmond; Linda Lawrence; G. Vike Vicente; Sylvia R. Kodsi

B30 Chorioretinal Lesions in Chronic Granulomatous Disease
Denis Georgelin
Dominique Bremond-Gignac; Matthieu Robert

B31 The Role of Genetic Testing in Avoiding Diagnostic Delays in Inherited Retinal Disease
Arth H. Shah
Elisse Park; Tamara Luke; Qingguo Xu; Ann Jewell; Natario L. Couser

B32 Visual Performance in Children with Albinism During the Second Decade of Life
Claudia Yahalom
Ana Navarrete; Atara Juster; Ayan Galbin; Anat Blumenfeld; Karen Hendler

B33 Expanding the Spectrum of Oculocutaneous Albinism: Does Isolated Foveal Hypoplasia Really Exists?
Giacomo M. Bacci
Roberto Caputo

B34 Cost Analysis of Childhood Glaucoma Surgeries
Abdelrahman M. Elhusseiny
Mohamed M. Khodeiry; Nicolas A. Yannuzzi; Ta C. Chang; Richard K. Lee; William E. Smiddy

B35 Demographics and Surgical Outcomes in Sturge-Weber Syndrome (SWS) Associated Glaucoma (SWS-glaucoma) in the Academy IRIS® Registry
Karen E. Lee, MD
Alexander Li; Jade Minor, MD; Luke Alonso; Reza Razeghinejad, MD; Leslie Hyman, PhD; Kammi B. Gunton, MD

B36 Microcatheter-Assisted Circumferential Trabeculotomy in Primary Congenital Glaucoma: Long-Term Clinical Outcomes
Natalie di Geronimo
Matilde Roda; Luigi Fontana
B37  Long-Term Outcomes of Ahmed Valve Capsulectomies in Pediatric Glaucoma Patients  
Sharmila Segar, MD  
Amanda Ismail, MD; Riya Shah, BS; Aditi Kappagantu, BS; Jacob Im, MD; John Roarty, MD  

B38  Outcomes of Ab-Externo Microshunt Implantation in the Management of Complex Paediatric Glaucoma  
Panagiota Antonopoulou  
Asim Ali  

B39  The Outcomes of Glaucoma Drainage Devices in Childhood Glaucoma: A Meta-Analysis  
Jamal O. Azhari  
Amr K. Hassan; Fatmah D. Elkheniny; Ahmed B. Sallam; Abdelrahman M. Elhusseiny  

B40  Long-Term Outcomes of Aurolab Aqueous Drainage Implant (AADI) vs Ahmed Glaucoma Valve (AGV) in Pediatric Patients: A Retrospective Study  
Abdullah M. Khan  
Syed Khabir Ahmad; Humoud AlOtaibi; Motazz Alarfaj; Rizwan Malik; Konrad Schargel  

B41  Long Term Follow-up of Pediatric Eversional Angle Closure with Headache (PEACH) Syndrome Following Laser PI  
Luke A. Donahue, MTS  
Jeffrey Griffin, MD; Mario Montelago, BS; Grant Slagle, DO; Sylvia L. Groth, MD; William E. Sponsel, MD; Sean P. Donahue, MD, PhD  

B42  The Use of Ologen Collagen Matrix in Combination with XEN Microstent for the Treatment of Glaucoma in Pediatrics: A Retrospective Case Series  
John Musser, MPH  
Nathan Brown, BS; Ryan Wallace, MD; Cole Swiston, MD; Benjamin Britz, PhD; Craig Chaya, MD  

NEURO-OPHTHALMOLOGY – OPTIC NERVE

B43  Retinal Findings in Pediatric Idiopathic Intracranial Hypertension  
Michael T. Curley, MD  
Eric D. Gaier, MD, PhD; Gena Heidary, MD, PhD; Ryan Gise, MD  

B44  Analysis of Pediatric Idiopathic Intracranial Hypertension at a Tertiary Care Hospital: Features and Management  
Katherine S. Wood, MD  
Elizabeth Gammeltoft; Rupal H. Trivedi, MD; M. Edward Wilson, MD  

B45  An Analysis of Presenting Features and Visual Outcomes for Paediatric Patients with Idiopathic Intracranial Hypertension in a Single British Centre  
Robert Thomas Brady, Dr  
Fiona Pearce, Dr; Audrey Pang, Dr; Ciara O’Sullivan, Miss; Pooja Harijan, Dr; Deepa Krishnakumar, Dr; Brinda Muthusamy, Miss  

B46  Optical Coherence Tomography and Optical Coherence Tomography Angiography Findings in Optic Disc Hypoplasia  
Min Chae Kang  
Kyung-Ah Park; Sei Yeul Oh  

B47  Single-Line Macular Optic Coherence Tomography (OCT) to Diagnose Optic Neuropathies in Young, Awake Children  
Sarah Madison Duff  
Samuel Alvarez-Falcon; Sharon F. Freedman; Mays A. El-Dairi  

B48  Design and Implementation of a Screening Protocol to Improve Diagnosis of Visual Sequelae in Children with Primary Brain Tumors  
Lauren C. Mehner, MD  
Samantha N. Wilson, MS  

B49  Visual Acuity at 20% Contrast and its Correlation with Optic Nerve Atrophy in Children and Young People Diagnosed with Brain Tumours  
Magnus Theodorsson, Dr  
George Archontakis, Mr; Lily Lai, Miss; Joanna Dilley, Dr; Jane Leitch, Miss  

B50  Clinical and Radiologic Findings in Patients with Morning Glory Disc Anomaly and Associated Optic Pathway Enlargement  
Paul H. Phillips  
Alexander S. Kwok; Raghu Ramakrishnaiah; Abdelrahman Elhusseiny  

B51  Characteristics of Optic Papillitis in Pediatric Uveitis  
Lindsay Rothfield, MD  
Bharti R. Nihalani, MD; Ryan Gise, MD  

B52  Peripapillary Hyperreflective Ovoid Mass-like Structures (PHOMS) in Children: Optical Coherence Tomography Measurements and Refractive Status  
Luke Pratt  
Shaz Rehan; Jack West; Patrick Watts
### NYSTAGMUS

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>B53</td>
<td>Globe Stabilization in Acquired Nystagmus using a Titanium T-Plate</td>
<td>Smith Ann M. Chisholm, MD</td>
</tr>
<tr>
<td>B54</td>
<td>Surgery for Acquired Nystagmus in Patients with Cerebellar Dysfunction</td>
<td>Ahmad Halawa, Steven Archer</td>
</tr>
<tr>
<td>B55</td>
<td>Chiasmal Misrouting in Infantile Nystagmus Syndrome (INS): Phenotypes in Patients with Molecular Diagnoses</td>
<td>Michael James Gilhooley, MB, PhD, FRCOphth; Mariya Moosajee, MB, PhD, FRCOphth; Maria Theodorou, MB, PhD, FRCOphth; Magella M. Neveu, BSc, PhD</td>
</tr>
<tr>
<td>B56</td>
<td>Global Prevalence and Epidemiological Characteristics of Infantile Nystagmus: A Systematic Review and Meta-Analysis</td>
<td>Yawen Xiang, MBChB; Doaa Elfadaly, MD, FRCS (Glasgow); Maria Theodorou, PhD, FRCOphth</td>
</tr>
<tr>
<td>B57</td>
<td>Does Spasmus Nutans Really Exist?</td>
<td>Salma A. Dawoud, MD; Alina V. Dumitrescu, MD; Arlene V. Drack, MD</td>
</tr>
</tbody>
</table>

### OCULOPLASTICS – NASOLACRIMAL DUCT OBSTRUCTION

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>B58</td>
<td>Cutaneous Lower Eyelid Retractor Release (CLERR): A Simple Method to Avert Lower Lid Malposition After Inferior Rectus (IR) Muscle Recession</td>
<td>Joseph L. Demer, MD, PhD</td>
</tr>
<tr>
<td>B59</td>
<td>Frontalis Flap Advancement versus Frontalis Sling in the Management of Congenital Blepharoptosis</td>
<td>Rania El Essawy; Hesham Shahin; Magda Salah; Sameh Hassan; Kareem Bakr</td>
</tr>
<tr>
<td>B60</td>
<td>Outcomes of Levator Resection for Congenital Ptosis with Poor Levator Function</td>
<td>Jenny C. Dohlman; Lisa Y. Lin; Bharti R. Nihalani; Alexandra T. Elliott</td>
</tr>
<tr>
<td>B61</td>
<td>Anisometropia in a Population-Based Cohort of Children with Nasolacrimal Duct Obstruction</td>
<td>Maude Anderson, MD, FRCS; Saraniya Sathiamoorthi, MD; David O. Hodge, MS; Brian G. Mohney, MD</td>
</tr>
<tr>
<td>B62</td>
<td>Safety and Efficacy of Nasolacrimal Duct Stenting Outside of the Operating Room – Comparing Three Types of Stents</td>
<td>Adriana P. Grigorian, MD; William Henry, MD; Abdallah Dalabih, MD</td>
</tr>
</tbody>
</table>

### PRACTICE MANAGEMENT – PUBLIC HEALTH

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>B63</td>
<td>Comparing Extrusion Rates and Post-Operative Emergency Visits between Tied and Untied Silicone Stents in Pediatric Lacrimal Surgery</td>
<td>Sarah M. Kamal, MD; Katherine Williams, MD; Richard Allen, MD, PhD</td>
</tr>
<tr>
<td>B64</td>
<td>Demographic Barriers to Subspecialty Care in Patients with Juvenile Idiopathic Arthritis</td>
<td>Rebecca G. Edwards Mayhew; Therese M. Sassalos; Adam Jacobson</td>
</tr>
<tr>
<td>B65</td>
<td>Increasing Pediatric Eye Care Access in the United States: Pilot Results from the All Children See Program</td>
<td>Bani Antonio-Aguirre, MD, MPH; Cynthia Beauchamp, MD; Denise Chamblee, MD; Mary Louise Collins, MD; David Epley, MD; Christie Morse, MD; Megan E. Collins, MD, MPH</td>
</tr>
<tr>
<td>B66</td>
<td>Cost Analysis of a School-Based Vision Program in an Urban, High-Poverty School District</td>
<td>Megan E. Collins; Gwyneth Alexander; Xinming Gu; Azka Tariq; Kevin Frick</td>
</tr>
<tr>
<td>B67</td>
<td>Protective Eyewear in Children with an Impaired Monocular Vision: Compliance and Trends</td>
<td>Tal Yahalomi; Gad Dotan; Anat Bachar Zipori; Daphna Mezad Koursh</td>
</tr>
<tr>
<td>B68</td>
<td>Protective Eyewear Reduces Retinal Damage in Sports Trauma</td>
<td>Matthew Lam; Andrew Suh; Yasin Shokrollahi; Pengfei Dong, PhD; Linxia Gu, PhD; Donny Suh, MD</td>
</tr>
<tr>
<td>B69</td>
<td>Use of the World Health Organization Primary Eye Care Protocol to Investigate the Ocular Health Status of School Children in Rwanda</td>
<td>Alex V. Levin; Wanjiku C. Mathenge; Nicholas R. Bello; Olivia M. Hess; Jean-Marie Dangou; John Nkurikye</td>
</tr>
<tr>
<td>B70</td>
<td>Parental Attitudes Toward Myopia Management</td>
<td>Emi Lin Luo; Rupa Wong</td>
</tr>
<tr>
<td>B71</td>
<td>Ophthalmic Outcomes in Children with In-Utero Drug Exposure</td>
<td>Salvatore Bellante, CO, MS; Carly Triana, CO, BS; Alyssa Spiller, BS; Barbara Chaiyachati, MD, PhD; Yinxing Yi, MS; Gui-Shuang Ying, PhD; Gil Binenbaum, MD, MSCE</td>
</tr>
</tbody>
</table>
B72 Role of Prenatal Imaging in the Identification of Congenital Ocular Anomalies: A Systematic Review
Taylor D. Kolosky
Bhakti K. Panchal; Ndidi-Amaka E. Onyekaba, MD; Emilie Ludeman; Mariama Jallow, MD; Janet L. Alexander, MD

REFRACTIVE ERROR

B73 Association of Refractive Error with Bruch’s Membrane Opening and Gamma and Delta Parapapillary Zone among Progressive High Myopic School-aged Children
Rohit Saxena, MD
Vinay Gupta; Rebika Dhiman; Swati Phuljhele; Dheeraj Kumar; Rohan Chawla

B74 Prevalence of Pediatric Astigmatism in the Navajo Nation
Jenna L. Jensen, BS
Ryan Wallace, MD; John A. Musser, MD; Abigail B. Jacketta; Theresa Long, MD; Lori McCoy, COA; Jeff Pettey, MD, MBA; Robert Hoffman, MD; Craig Chaya, MD

B75 Longitudinal Development of Ocular Biometric Components and Refractive Error in Children with Infantile ET vs Late-onset Accommodative ET
Jingyun Wang
Reed M. Jost; Brooke Koritala; Eileen E. Birch

RETINA

B76 Outcome of Ocular Toxoplasmosis in Children and Adolescents
Alice M. Kitay
Fabio Meier; Eva Friedli; Sandrine Zweifel; Daniel Barthelmes; Christina Gerth-Kahlert; Jeanne M. Gunzinger

B77 Characterizing Myelinated Retinal Nerve Fibers in Patients With and Without Myopia and Amblyopia
Mary K. Munsell
Gena Heidary; Melanie A. Kazlas; Linda R. Dagi; Eric D. Gaier; Efren Gonzalez

RETINOBlastOMA

B78 A Phase I Study of Episceral Topotecan Plaque for Retinoblastoma
Aparna Ramasubramanian

B79 Long Term Efficacy of Intravitreal Melphalan Chemotherapy for Vitreous Seeding in Retinoblastoma
Ghaida Alahmadi
Azza Maktabi; Gorka Sesma; Saleh Almesfer

B80 Direct Medical Costs of Globe Preservation in Patients with Group C-E Retinoblastoma
Jennifer L. Rossen, MD
Elizabeth M. Bolton, MD; David L. Zhang; Bahram Rahmani, MD

RETINOPATHY OF PREMATURITY

B81 Persistent Retinopathies of Prematurity after 40 Weeks Corrected Age
Mélissa Santorini
Romain Milheiro; Amandine Barjot; Georges Caputo

B82 Association between Treatment for Retinopathy of Prematurity and Blood Monocyte Counts
Shumpei Obata
Riko Matsumoto; Masashi Kakinoki; Osamu Sawada; Tomoko Sawada; Yoshitsugu Saisin; Masahito Ohji

B83 A Comparison of Efficacy between Intravitreal Bevacizumab versus Ranibizumab for Type I Retinopathy of Prematurity
Laura E. Andaluz-Scher, MD
Melissa Warne; Nicole A. Storey, OD; Gerard P. Barry, MD

B84 Use of anti-Vascular Endothelial Growth Factor (antiVEGF) in the Treatment of Retinopathy of Prematurity (ROP), A Systematic Review and Meta-Analysis
Sankha Udakumbura
Patrick Watts

B85 Atypical Reactivation of Retinopathy of Prematurity Six Years after Bevacizumab Intravitreal Injection
Anas Yasin
Thomas Hejkal; Paul Rychwalski; Samiksha Fouzdar Jain

B86 Refractive Outcomes of ROP Treated with Laser Photocoagulation, Bevacizumab, and Combination Therapy
Margaret M. Reynolds, MD
Jacob I. Strehlikov, BA; Rakesh Rao, MD; Andrew Lee, MD; Gregg Lueder, MD

B87 Maternal and Neonatal Factors Associated with More Severe Retinopathy Of Prematurity
Lauren Young, MD
Lema Noubani; Alyson Win; Jonathan Thomas; Kendall Hammond; Matthew Recko, MD

B88 Changing Fields of View: Perceived Plus Disease Severity using the New ICROP3 Definition
David A. Ramirez, MD
Alyssa Spiller, BS; Gui-Shuang Ying, MD, PhD; Graham E. Quinn, MD, MSCE; Gil Binenbaum, MD, MSCE
### STRABISMUS – EXTRAOCULAR MUSCLES

| B89 | Objective Assessment of Control Compared with Clinical Triple Office Control Score in Children with Intermittent Exotropia  
*Eileen E. Birch*  
*Kartik Kumar; Reed M. Jost; Lori Dao; Becky Luu; David Stager; Krista R. Kelly*

| B90 | Assessment and Management of Intermittent Exotropia in France: An AFSOP Study  
*François Audren*

| B91 | Refractive and Sensorimotor Outcomes of Intermittent Exotropia Managed with Overminus Glasses  
*Sudhi P. Kurup, MD*  
*Henry S. Bison; Bonnie Huang; Caroline Canning; Bahram Rahmani, MD*

| B92 | Clinical Features and Analysis of Spontaneous Consecutive Exotropia in Children with Refractive Accommodative Esotropia  
*Aysel Pelit, MD*  
*Nazife Sefi-Yurdakul, MD*

| B93 | Restoration of Binocular Vision with Liquid Crystal Glasses  
*Satenik Agagulyan*  
*Elena Kudryashova; Victoria Balasanyan; Alexander Shpak; Igor Azmauryan*

| B94 | A Chip Off the Old Block – Slab-Off Prism for Symptomatic, Vertical Heterophoria in the Reading Position  
*Alex Christoff, CO*

| B95 | Strabismus Outcomes in Children Post-Hemispheric Surgery: A Systematic Review  
*Daiana Roxana Pur, MD Candidate*  
*Gayathri K. Sivakumar, MD; Lulu L. Bursztyn, MD; Yiannis Iordanous, MD; Sandrine de Ribaupierre*

| B96 | Changes in Strabismus Pattern in Cranial Nerve 3 Palsies  
*Sameea Tahir*  
*Charlotte Gore, Dr*

| B97 | Hierarchically Structured Hydrogels as Synthetic Muscles for the Treatment of Strabismus and Amblyopia  
*Stacy Pineles*  
*Federico Velez; Martin Martins; R. Sergio Solorzano-Vargas; Yingie Du; Ximin He*

| B98 | Comprehensive High-Fidelity 3D Modelling of the EOM at the Fibre Bundle–Aponeurosis Level as in Situ: A Pilot Anatomical Study  
*Adele Kim*  
*Valera Castanov, Maxine Vienneau, Yi Ning Strube, Anne M. Agur*

| B99 | Effect of Plasma Enriched with Platelet Growth Factors in Human Tenon’s Capsule Fibroblast  
*Federico G. Velez, MD*  
*Martha L. Arango, Bc, MSc, PhD; Virgilio Galvis, MD, PhD; Stacy L. Pineles MD, MPH; Noemi Rosello, MD; Alejandro Tello, MD, PhD*

### STRABISMUS SURGERY

| B100 | Factors Associated with the Change of Horizontal Deviation after Inferior Oblique Weakening Surgery  
*Yujin Gim*  
*Seong-Joon Kim*

| B101 | Effect of Inferior Oblique Weakening Procedures on Horizontal Alignment in Patients Treated Surgically for Exotropia  
*Blake A. Boehm*  
*David Chong; John Wang; Urvi Gupta; Jason Singer; Zeina Salem; Faruk Orge*

| B102 | Outcomes of Inferior Oblique Myectomy versus Recession Combined with Lateral Rectus Recession in V-pattern Exotropias  
*Olivia T. Cheng, MD*  
*Jennifer L. Rossen, MD; Brenda L. Bohnsack, MD, PhD*

| B103 | Surgical Management of Exotropia in Superior Oblique Palsy  
*Jaron K. Pruett*  
*Allison C. Umfress, MD; Sean P. Donahue, MD, PhD*

| B104 | Outcomes of Inferior Oblique Muscle Myectomy with and without Tucking into Tenon’s Capsule, A Cohort Prospective Study  
*Shatha Aalfreihi*  
*Hana Almuhawas; Saja Alhoshan; Bashair Alnasser; Saif Alobaiei*

| B105 | Can Inferior Oblique Myectomy Alone Correct the Downgaze Deviation in Superior Oblique Palsy?  
*Treasa Murphy*  
*Sharon Armarnik, MD; Christopher J. Lyons, MD*

| B106 | Clinical Outcomes of Inferior Oblique Myectomy in Patients with Unilateral Superior Oblique Palsy  
*Micah Blau-Most, MD*  
*Robert LaRoche, MD, FRCSC*

| B107 | Effect of Conversion from Traditional Transposition to Anterior and Nasal Transposition of the Inferior Oblique Muscle  
*Claes S. Lønkvist, MD*  
*Tobias E. Torp-Pedersen, MD, PhD; Jon Peiter Saunte, MD*

| B108 | Unilateral Superior Oblique Palsies: Fixation Preference and its Effect on Misdiagnosis, Surgical Outcomes, and Clinical Characteristics  
*Daniel Cyr, DO*  
*Elizabeth Bolton, MD; Jennifer Rossen, MD; Hanta Ralay-Ranaivo, PhD, CCRP; Brenda Bohnsack, MD, PhD*
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>B109</td>
<td>Anteriorization of the Inferior Oblique Muscle versus Anteriorization and Resection for Asymmetrical Dissociated Vertical Deviation</td>
<td>Ghada Osama, Hala Elhilali, Magda Salah ElDin, Heba Fouad</td>
</tr>
<tr>
<td>B110</td>
<td>Comparative Evaluation of the Effect of Inferior Rectus Plication Versus Superior Rectus Recession in Cases of Dissociated Vertical Deviation</td>
<td>Pradeep Sharma, MD, Zakia Anwer, MD, Rohit Saxena, MD, Swati Phuljele Aalok, MD</td>
</tr>
<tr>
<td>B111</td>
<td>Vertical Rectus Muscle Recession for Non-Restrictive Strabismus</td>
<td>Melanie Kazlas, MD, Abdelrahman M. Elhusseiny, MD, Charlotte Gore, MD, Mohammad Ali A. Sadiq, MD, Linda R. Dagi, MD, David G. Hunter, MD, PhD</td>
</tr>
<tr>
<td>B112</td>
<td>Dose-Response Relationship in Mini-Plication Surgery for Small-Angle Deviations</td>
<td>Otana A. Jakpor, MD, MSc, Steven M. Archer, MD</td>
</tr>
<tr>
<td>B113</td>
<td>Superior Oblique Anterior Fibers Plication Utilizing Adjustable Noose for Ex torsion</td>
<td>Erick D. Bothun, Maude Anderson</td>
</tr>
<tr>
<td>B114</td>
<td>Socioeconomic and Racial Variations in Childhood Vision Care Access and Utilization</td>
<td>Brita S. Rook, MD, Muhammad Z. Chauhan, MS, MA, Abdelrahman M. Elhusseiny, MD, Ahmed B. Sallam, MD, PhD, Paul H. Phillips, MD</td>
</tr>
<tr>
<td>B115</td>
<td>Improving Access to Visual Screening in 4-5 Year Old Children in Deprived Areas of London through School Nurse Led Assessment</td>
<td>Meena Arunakirinathan, FRCOphth, Lucy Fox, MBBS, Vivienne Kit, FRCOphth, Kate Reed, MBBS, Maria Theodorou, FRCOphth</td>
</tr>
<tr>
<td>B116</td>
<td>The Association of Vision Concerns with the Physical and Mental Health of Adolescents in the United States</td>
<td>Sean C. Teebagy, Benjamin G. Jastrzembski, MD, Isdin Oke, MD</td>
</tr>
<tr>
<td>B117</td>
<td>Feasibility of a High School Student Assisted Elementary School Vision Screening Community Service Project</td>
<td>Mitchell Strominger, Sydney Strominger, Brianne Thoreson</td>
</tr>
<tr>
<td>B118</td>
<td>Pediatric Vision Screening Guidelines and Practices in Florida</td>
<td>Meghan Sharma, BA, Eleonore Savatovsky, MD, PhD, Alana Grajewski, MD</td>
</tr>
<tr>
<td>B119</td>
<td>Primary Care Vision Screening during 3- to 5-Year-old Well Child Visits at an Academic Health System</td>
<td>Olivia J. Killeen, MD, MS, Amani Mubeen, Francine Moriguchi, Joshua R. Ehrlich, MD, MPH, Paula Anne Newman-Casey, MD, MS</td>
</tr>
<tr>
<td>B120</td>
<td>Clinical Findings in Children Referred for an Abnormal Red Reflex</td>
<td>Soraiya Thura, David Zurakowski, Joseph Griffith</td>
</tr>
</tbody>
</table>
Notes
Notes
Join us at the closing reception for the

**BROADWAY CELEBRATION AND AUCTION**

This complimentary event will be full of **food, fun, fundraising, and fellowship!**

6:30 PM – 10:00 PM, Saturday, April 1 in the Broadway Ballroom

This is your opportunity to make an impact to your Foundation by participating in the silent auction, live auction, and paddle raise.

Bidders can text **CEF23** to **99192** to go to the auction page.

Or scan this QR code to register now!
Ending preventable vision loss and improve the lives of visually impaired children worldwide

**Children’s Eye Foundation of aapos**

ChildrensEyeFoundation.org

**All Children See**
A public service program that provides critically needed access to quality eye care for children by pairing them with a nearby volunteer ophthalmologist.

**Stop Infant Blindness in Africa**
An initiative to end preventable vision loss and blindness caused by Retinopathy of Prematurity (ROP) among infants in sub-Saharan Africa.

**Global Education & Training**
A program which focuses on engaging international physicians from underserved areas of the world in training alongside AAPOS members in the US.

**Vision Through Music**
A collaboration with the Academy of Music for the Blind to recruit and train music teachers to nurture musicality among children with vision loss.

All Children See and Stop Infant Blindness in Africa are supported by the Knights Templar Eye Foundation.
Claim Your CME Credits Online!

Scan the QR code above.

OR

Go to www.aapos.org and click on the Meetings tab. Then select the 2023 Annual Meeting from the dropdown. Access the CME link in the list of Quick Links.

AAPOS Future Meeting Dates

2023 AAPOS/AAP Fall Virtual Meeting
September 9, 2023
Additional Information
Coming Soon!

2024 AAPOS 49th Annual Meeting
Austin, TX
April 7 – 11, 2024
JW Marriott Austin

2024 Joint Conference with the Association for Ophthalmology and Strabismus and the Egyptian Association of Pediatric Ophthalmology
Luxor, Egypt
November 6 – 9, 2024
Steigenberger Nile Palace

2025 Joint Conference with the Association for Ophthalmology and Strabismus and the Turkish Ophthalmological Association Strabismological Society
Cappadocia, Turkey
Dates and Additional Information
Coming Soon!
Audience Response System
Scan the QR code on the right to access the audience response system so that you can provide comments, answer questions, and respond to the polls.