

International Strabismological Association & American Association for Pediatric Ophthalmology and Strabismus
Joint Meeting and 44th Annual Meeting, March 18-22, 2018, Preliminary Program, Washington, DC

SUNDAY, MARCH 18, 2018

7:00 am – 2:30 pm	Finance Committee, Board of Directors Meetings
8:00 am – 4:00 pm	SEC/Administrators Pre-Meeting
12:00 pm – 8:00 pm	Registration
1:00 pm – 5:00 pm	ISA Council Meeting
1:00 pm – 4:00 pm	Poster Set Up (1 st Set)
4:00 pm – 6:00 pm	Poster Viewing (1 st Set) (Authors not present) CME eligible
4:00 pm – 5:00 pm	OMIC Workshop – Workable Solutions for High-Stake Risks Robert S. Gold, MD; Anne Menke
5:00 pm – 6:00 pm	Practice Management Workshop 2017 AAPOS Financial Benchmarking Survey Robert E. Wiggins, Jr., MD Cybersecurity and Cyberliability Michael Bartiss, OD, MD; Anne Menke
6:15 pm – 7:00 pm	International Attendees Reception
7:00 pm – 9:00 pm	Opening Reception & Children's Eye Foundation Silent Auction

MONDAY, MARCH 19, 2018

6:30 am – 5:00 pm	Registration
6:30 am – 7:30 am	Poster Viewing (Authors not present) CME eligible – Breakfast
7:30 am – 7:35 am	Introduction and Welcome Scott A. Larson, MD
7:35 am – 7:50 am	AAPOS President's Remarks, Honor Awards, Senior Honor Awards, Lifetime Achievement Awards, Champion for Vision Award Derek T. Sprunger, MD, FFAO, MAAPOS
7:50 am – 8:00 am	ISA Welcome Seyhan B. Ozkan, MD
8:00 am – 8:05 am	Introduction of Costenbader Lecturer Mohamad S. Jaafar, MD, FACS, FAAP
8:05 am – 8:30 am	Costenbader Lecture Supported by the Children's Eye Foundation Strides & Challenges in the Diagnosis, Classification & Treatment of Childhood Retinal Dystrophies Elias I. Traboulsi, MD, MEd
8:30 am – 8:33 am	Presentation Ceremony M. Edward Wilson, MD
8:35 am – 9:35 am	ISA Symposium Concepts for Management of Paralytic Strabismus Moderators: Michael X. Repka, MD & Andrea Molinari, MD
8:35 am – 8:45 am	Pearls for Management of Abducens Nerve Palsy Jan-Tjeerd de Faber
8:45 am – 8:55 am	New Approaches to Third Nerve Palsy Mauro Goldchmit
8:55 am – 9:05 am	Adjustable Bilateral Superior Oblique Tendon Advancement Jonathan Holmes
9:05 am – 9:15 am	Can We Correct Torsion with Inferior Rectus Surgery Miho Sato
9:15 am – 9:25 am	Significance of Compartmentalization in Ocular Motor Nerve Palsies Joseph Demer
9:25 am – 9:35 am	Question and Answer Session
9:35 am – 9:40 am	Introduction of the Jampolsky Lecturer Thomas D. France, MD
9:40 am – 10:05 am	Jampolsky Lecture Reoperation Strategies Burton J. Kushner, MD
10:05 am – 10:08 am	Presentation Ceremony

10:10 am – 11:10 am	Interactive Poster Session – Author Presentation and Q/A (1 st Set) 1st Set of Posters (1 – 96) – Authors Present – CME eligible (Odd Numbered Posters 10:10 – 10:45; Even Numbered Posters 10:35 – 11:10)
11:15 am – 11:25 am	Presentation of Parks Medals, Silver Medals and Children's Eye Foundation Update K. David Epley, MD & M. Edward Wilson, MD
11:25 am – 11:30 am	Introduction of Bielschowsky Lecturer Stephen P. Kraft, MD
11:30 am – 11:55 am	Bielschowsky Lecture Accommodation and Convergence – Ratios, Linkages, Styles, and Mental Somersaults Anna Horwood, PhD, DBOT
11:55 am – 12:05 pm	Presentation Ceremony and ISA Awards Seyhan B. Ozkan, MD

AMBLYOPIA – VISION – PUBLIC HEALTH

12:05 pm – 12:12 pm	New Pediatric Vision Questionnaires for Assessing Health-Related Quality of Life and Functional Vision in Childhood Eye Conditions Jonathan M. Holmes
12:12 pm – 12:19 pm	Red Reflex Examination in Reproductive and Child Health Clinics for Early Detection of Pediatric Cataract/Ocular Media Disorders: Evidence from Kilimanjaro Tanzania Furahini G. Mndeme, MD
12:19 pm – 12:26 pm	Impaired Motion Perception in the Fellow Eye of Amblyopic Children is Related to Abnormal Binocular Function Eileen E. Birch
12:26 pm – 12:33 pm	Treatment Outcomes for "Severe Amblyopia" using PEDIG Amblyopia Protocols – A Prospective Study of 232 Cases Miranda Buckle, FRCOphth
12:33 pm – 12:40 pm	Sparing of Vernier Acuity in Children with Recent Onset Strabismus and Amblyopia Before and After Treatment Arvind Chandna, MD, FRCOphth
12:40 pm – 12:47 pm	Novel Binocular iPad Cartoon Video Program Improves Stereoacuity and Central Fusion in Treated and Untreated Amblyopes Vicki M. Chen
12:47 pm – 12:54 pm	Effects of Immersive Virtual Reality Viewing on Young Children: Visuomotor Function, Postural Stability and Visually-Induced Motion Sickness Lawrence Tychsen
12:54 pm – 1:01 pm	Impact of Trainee on Patient Appointment Time in a Pediatric Ophthalmology Clinic Michael F. Chiang
1:01 pm – 1:15 pm	PANEL DISCUSSION
1:25 pm – 1:55 pm	AAPOS Business Meeting (Lunch Available for a Fee with Pre-Registration)
2:05 pm – 3:15 pm	Advocacy Preparation Workshop Kenneth P. Cheng, MD; AAPOS Legislative Committee
2:30 pm – 4:00 pm	ISA Symposium Developmental Disorders of Ocular Motility Moderators: Frank Martin & Tsuranu Yokoyama
2:30 pm – 2:42 pm	Current Perspectives of CCDD Elias Traboulsi
2:42 pm – 2:54 pm	CFEOM – Pearls for Management Arif Khan
2:54 pm – 3:06 pm	Treatment Guidelines in Typical Forms of Duane Syndrome Gill Adams
3:06 pm – 3:18 pm	What to Do in Atypical Duane Syndrome Seyhan Ozkan
3:18 pm – 3:30 pm	Brown Syndrome – When to Do Surgery and What to Do David A. Plager
3:30 pm – 3:42 pm	Monocular Elevation Deficiency Subhash Dadeya
3:42 pm – 4:00 pm	Question and Answer Session
3:25 pm – 5:00 pm	Coding Workshop – Another Day in the Life of the Pediatric Ophthalmologist Sue Vicchilli, COT, OCS; Michael J. Bartiss, OD, MD; Robert S. Gold, MD; Heather H. Dunn, COA, OCS

4:00 pm – 4:15 pm	Poster Removal (1 st Set)
4:30 pm – 5:00 pm	Poster Set Up (2 nd Set)
4:30 pm – 6:30 pm	Exhibitor Cocktail Reception

TUESDAY, MARCH 20, 2018

6:30 am – 5:30 pm	Registration
6:30 am – 8:00 am	Poster Viewing (2 nd Set) (Authors not present) CME eligible – Breakfast

WORKSHOPS

7:00 am – 8:15 am	Child Abuse: When Do We Get it Wrong? Gil Binenbaum; Alex V. Levin; Steve E. Rubin; Cindy W. Christian
	Strabismus Surgery in Complex Neurologic Disease: Surgical Strategy and Outcomes Gena Heidary, MD; Stacy Pineles, MD; Jason Peragallo, MD; Jane Edmond, MD; Mitch Strominger, MD; Linda Dagi, MD
	Audience Directed Workshop: Modern Evaluation and Treatment of Nystagmus Richard W. Hertle, MD; Veeral Shah, MD, PhD; David B. Granet, MD; Lionel Kowal, MD
	Cortical/Cerebral Visual Impairment 2018: What You Need to Know to Diagnose and Treat Including Perspective from a Parent of a Child with CVI Sharon S. Lehman, MD; Rebecca Davis; Linda Lawrence, MD; Kanwal Nischal, MD, FRCOphth

WORKSHOPS

8:30 am – 9:45 am	What's New and Important in Pediatric Ophthalmology and Strabismus in 2018 Darron A. Bacal, MD; Tina Rutar, MD; Chrysvagi Adamopoulou, MD; Anat Zipori, MD; Kara Cavuoto, MD; Marina Eisenberg, MD; Ilana Freidman, MD; Jennifer Galvin, MD; Elena Gianfermi, MD; Michael Gray, MD
	New Signatures for Evidence Based Evaluation in Strabismus: Imaging and Genetics Zia Chaudhuri, FRCS (Glasg), FICO; Joseph L. Demer, MD, PhD
	Musculoskeletal Symptoms Among Ophthalmologists and How to Prevent Them Scott E. Olitsky, MD; Safeer F. Siddicky, MS; Donny Suh, MD; Derek Sprunger, MD
	Innovative Techniques for the Treatment of Adult Strabismus Stacy L. Pineles, MD; Federico Velez; Melinda Chang; Jonathan Holmes; Ramesh Kekunnaya; Seyhan Ozkan
9:45 am – 10:45 am	Interactive Poster Session – Author Presentation and Q/A (1 st Set) 2nd Set of Posters (97 – 192) – Authors Present – CME eligible (Odd Numbered Posters 9:45 – 10:20; Even Numbered Posters 10:10 – 10:45)

WORKSHOPS

10:45 am – 12:00 pm	Evaluating the Evidence: AAPOS Research Committee Analysis of What's Hot in Pediatric Ophthalmology Gil Binenbaum; Brian P. Brooks; Steven E. Brooks; Alejandra de Alba Campomanes; Sean Donahue; Sharon Freedman; Fatema Ghasia; Gena Heidary; Iris Kassem; Stacy Pineles
	The IOL Didn't Last: Indications and Tips for IOL Removal, Repositioning, and Exchange Erick D. Bothun, MD; David Morrison, MD; Faruk Orge, MD; David A. Plager, MD; M. Edward Wilson, MD
	Best Practice Patterns: How to Effectively Use OCT in Pediatric Ophthalmology Allison R. Loh; Leah G. Reznick; J. Peter Campbell; William L. Hills; Beth Edmunds
	Reading Difficulties and the Pediatric Ophthalmologist Melinda Rainey, MD; Deborah M. Alcorn, MD; Linn M. Mangano, MD; Laura J. Heinmiller, MD; Sheryl M. Handler, MD
12:00 pm – 1:15 pm	Lunch Break – On Your Own

WORKSHOPS

1:15 pm – 2:30 pm	AOC-AAPOS Combined Workshop: Re-Examining the Data: PEDIG Conundrums Stephen P. Christiansen, MD; Ronald J. Biernacki, CO; Alex Christoff, CO, COT; Sean Donahue, MD, PhD; Burton J. Kushner, MD; Nina M. Palomba, CO; Michael X. Repka, MD; Sarah Whitecross, OC(C)
	Difficult Discussion: Can We Improve the Way We Communicate with Patients and Families? Gregg T. Lueder; Brian Campolattaro; Robert Enzenauer; Gena Heidary; Alex Levin; Alan Richards
	Loosening the Tension – Evaluation, Differential Diagnosis and Treatment of Restrictive Strabismus Daniel J. Salchow, MD; Anja Eckstein, MD; Oliver Ehrt, MD; Michael Schittkowski, MD
	Pediatric Anterior Segment Surgery: The Basic, The Complex, The Novel and the Future Federico G. Velez, MD; Sharon F. Freedman, MD; Deborah K. VanderVeen, MD; Kamiar Mirescandari, MBChB, FRCSEd, FRCOphth, PhD

WORKSHOPS

2:45 pm – 4:00 pm	AAPOS Genetic Task Force Workshop: Does this patient have a genetic eye disease? Should I refer? Arlene V. Drack, MD; Brian P. Brooks, MD, PhD; Deborah M. Costakos, MD; Natario L. Couser, MD; Elias I. Traboulsi, MD; Alex V. Levin, MD, MHSc; I. Christopher Lloyd, MBBS, FRCOphth; Virginia Miraldi Utz, MD; Christina M. Ohnsman, MD; Melanie A. Schmitt, MD; Deborah M. Alcorn, MD; Elise Heon, MD; Mary C. Whitman, MD, PhD
	Amblyopia: Update on Basic and Translational Science, 2018 David G. Hunter; Takao K. Hensch; Elizabeth M. Quinlan; Jonathan M. Holmes
	The Academic Peer Review Process: How to Succeed as an Author and Reviewer James D. Reynolds, MD; William Good, MD; Rudy Wagner, MD; R.V. Paul Chan, MD; Michael Chiang, MD; Kyle Arnoldi, CO, COMT
	Adult Strabismus Surgery David Stager, Jr., MD; David B. Granet, MD; Edward G. Buckley, MD; Forrest J. Ellis, MD; Joanne Hancox, FRCOphth; Gena Heidary, MD, PhD; David L. Guyton, MD; Steven M. Archer, MD
4:00 pm – 4:30 pm	Pre-Symposium Refreshments
4:00 pm – 4:15 pm	Poster Removal (2 nd Set)
4:30 pm – 5:00 pm	Poster Set Up (3 rd Set)
4:30 pm – 6:00 pm	Special Symposium
6:00 pm – 7:00 pm	Young Ophthalmologists, Senior Ophthalmologists and New Member Reception
6:00 pm – 8:00 pm	Poster Viewing (Authors not present)

WEDNESDAY, MARCH 21, 2018

6:30 am – 5:00 pm	Registration
6:30 am – 8:00 am	Poster viewing (3 rd Set) (Authors not present) – CME eligible – Breakfast
6:30 am	8 th Annual AAPOS Run
7:30 am – 8:30 am	Rapid Fire Poster Presentations Moderator: Jan-Tjeerd de Faber

STRABISMUS – STRABISMUS SURGERY

8:35 am – 8:42 am	Incidence and Profile of Strabismus in an Acute Stroke Population Fiona J. Rowe
8:42 am – 8:49 am	Strabismus and Strabismus Surgery in the United States: Analysis from the IRIS Registry Michael X. Repka
8:49 am – 8:56 am	Evaluation and Valuation of an Innovative Digital Ocular Motility Measuring System Ossama M. Hakim, MD
8:56 am – 9:03 am	Eye-Tracking Based Device for Measurement of Both Manifest and Latent Eye Deviations in Adults and Children Tamara Wygnanski-Jaffe, MD
9:03 am – 9:10 am	Comparison of Preemptive Analgesic Effect of Retrobulbar Block and Intravenous Fentanyl in Pediatric Strabismus Surgery Dina H. Hassanein, MD, FRCS

9:10 am – 9:17 am	Analgesic Eyedrops Reduce Opioid Demand after Strabismus Surgery Jon Peiter Saunte, MD
GLAUCOMA – OPTIC NERVE – OCULOPLASTICS	
9:17 am – 9:24 am	Risk of Developing Glaucoma/Glaucoma Suspect within 18 Months after Pediatric Cataract Surgery Sharon F. Freedman, MD
9:24 am – 9:31 am	The Ahmed-Baerveldt Comparison (ABC) Study for Pediatric Refractory Glaucoma Bibiana J. Reiser
9:31 am – 9:38 am	Microcatheter-Assisted Trabeculotomy versus Circumferential Trabeculotomy with the Rigid Probe Trabeculotome in Pediatric Glaucoma Yasmine M. El Sayed
9:38 am – 9:45 am	Visual Outcomes after Chemotherapy for Optic Pathway Glioma in Children with and without Neurofibromatosis Type 1: Results of the International Society of Paediatric Oncology (SIOP) Low-Grade Glioma 2004 Trial United Kingdom (UK) cohort Kevin M. Falzon, MD, FRCOphth
9:45 am – 9:52 am	Two-Point Fixation Levator Aponeurosis Tucking versus Standard Levator Resection for Congenital Blepharoptosis Sameh H. Abdelbaky
9:52 am – 10:05 am	PANEL DISCUSSION
10:05 am – 11:05 am	Interactive Poster Session – Author Presentation and Q/A (1 st Set) 3rd Set of Posters (193 – 288) – Authors Present – CME eligible (Odd Numbered Posters 10:05 – 10:40; Even Numbered Posters 10:30 – 11:05)
11:10 am – 11:35 am	Updates
11:10 am – 11:14 am	JAAPOS Update William Good
11:14 am – 11:17 am	ABO Update on Continuous Certification Julia Stevens
11:17 am – 11:20 am	AAO Subspecialty Day Update Jonathan Holmes
11:20 am – 11:24 am	AAP Update Daniel Karr
11:24 am – 11:28 am	Surgical Scope Fund Update Kenneth Cheng
11:28 am – 11:32 am	IPOSC Update Frank Martin
11:32 am – 11:35 am	International Meetings Update Scott Larson
STRABISMUS SURGERY	
11:35 am – 11:42 am	Parent Attitudes Toward Resident Involvement in Their Child's Strabismus Surgery Hans W. Andrews
11:42 am – 11:49 am	Why Medial Rectus (MR) Recession is More Powerful Per Millimeter than Lateral Rectus (LR) Recession: The Globe's Rotational Axis is Not Where You Thought It Was Robert A. Clark
11:49 am – 11:56 am	Injection of Bupivacaine and Botulinum Type A Toxin to Treat Comitant Strabismus Talita M. Cunha, MD
11:56 am – 12:03 pm	Resection Versus Plication for the Management of Exotropia Twinkle Mehta
12:03 pm – 12:10 pm	Plication vs Resection: A Qualitative and Quantitative Comparison Jaspreet Sukhija, MD
12:10 pm – 12:17 pm	Comparison Between Augmented Recession and Medial Rectus Recession with Posterior Scleral Fixation in Partially Accommodative Esotropia Ahmed Awadein, MD, FRCS
12:17 pm – 12:24 pm	Comparison Between Medial Rectus Pulley Fixation and Augmented Recession in Children with Convergence Excess and Variable-Angle Infantile Esotropia Heba Ibrahim
12:24 pm – 12:31 pm	Evaluation of the Strengthening Effect of the Superior Oblique Tuck Procedure Shawn S. Gappy, MD

12:31 pm – 12:38 pm	Unwinding of Cyclodeviation After an Adjustable Harada-Ito Procedure Laura Liebermann
12:38 pm – 12:45 pm	Delayed Adjustment of Short Tag Noose Sutures in Strabismus Surgery Allows the Effect of Surgery to be Evaluated in Real Time up to 7 Days, Thus Reducing the Numbers Needed to Adjust Claes S. Lonkvist, MD
12:45 pm – 12:52 pm	Change in Iris Vessel Density in Ocular Coherence Tomography Angiography for Detection of Anterior Segment Ischemia after Strabismus Surgery Federico G. Velez, MD
12:52 pm – 1:05 pm	PANEL DISCUSSION
2:00 pm – 3:00 pm	ESA Symposium Moderator: John Sloper
2:00 pm – 2:08 pm	Dosage of Recessions and Muscle Elongation in Surgery for Grave's Orbitopathy Oliver Ehrt
2:08 pm – 2:16 pm	Management of Consecutive Exotropia Laura Lindberg
2:16 pm – 2:24 pm	The Tight Inferior Oblique Muscle Rosario Gomez de Liano
2:24 pm – 2:32 pm	The Role of Orbital MRI in Patients with Strange Strabismus Patterns Giovanni Marcon
2:32 pm – 2:40 pm	The Contribution of Examination Under Anesthesia to Decision Making in Strabismus Surgery Dominique Thouvenin
2:40 pm – 2:48 pm	The Effect of Suture Adjustment on Surgical Outcomes in Adults with Symptomatic Intermittent Exotropia John Sloper
2:48 pm – 3:00 pm	Question and Answer Session
3:10 pm – 4:10 pm	IOA Symposium Moderator: Karen McMain, MD, OC(C) & Shelly Klein, CO
3:10 pm – 3:20 pm	Dichoptic Training and Video Games in the Treatment of Amblyopia: Fantasy or (virtual) Reality? Linda Colpa OC(C)
3:20 pm – 3:30 pm	Inverse Occlusion Birgit Wahl, MSc
3:30 pm – 3:40 pm	Benefits, Barriers and Understanding: The Importance of Spectacle Wear in Young Children Alison Bruce, PhD
3:40 pm – 3:50 pm	Complications of Amblyopia Treatment David Newsham, PhD
3:50 pm – 4:00 pm	Adherence to Therapy in Occlusion Jan Roelof Polling, PhD candidate
4:00 pm – 4:10 pm	Question and Answer Session
4:00 pm – 4:15 pm	Poster Removal (3 rd Set)
4:14 pm – 5:15 pm	Rapid Fire Poster Presentations Moderator: Michael X. Repka, MD
7:30 pm – 10:30 pm	Closing Reception

THURSDAY, MARCH 22, 2018

6:30 am – 12:00 pm	Registration
6:30 am – 8:00 am	Breakfast
7:00 am – 8:00 am	Video Demonstrations of Signs, Diagnostics of Diseases, and Complex Surgical Procedures in Pediatric Ophthalmology and Strabismus Sharon F. Freedman, MD; Jan-Tjeerd de Faber, MD; Laura B. Enyedi, MD; Sandra Guimaraes, MD; Tamara Wygnanski-Jaffe, MD; Federico Velez, MD

RETINOPATHY OF PREMATURITY – RETINA – CORNEA

8:10 am – 8:17 am	Evidence-Based Schedule for Retinopathy of Prematurity (ROP) Examinations Gil Binenbaum
8:17 am – 8:24 am	Weight Gain Acceleration and Risk of Retinopathy of Prematurity Sila Bal, BS
8:24 am – 8:31 am	Automated Diagnosis of Plus Disease in Retinopathy of Prematurity Using Deep Learning J. Peter Campbell

8:31 am – 8:38 am	A Phase 1 Dosing Study of Bevacizumab for ROP: 12-Month Ocular Outcomes Eric R. Crouch, MD
8:38 am – 8:45 am	Refractive Outcomes Comparing Primary Laser to Primary Bevacizumab with Delayed Laser for Type 1 ROP Nandita Anand, MD
8:45 am – 8:52 am	Year 3 Results and Age-Stratified Analyses for a Phase 3 Trial of Voretigene Neparvovec in RPE65 Mutation – Associated Inherited Retinal Disease Arlene V. Drack, MD
8:52 am – 8:59 am	Mosaic Carriers of RB1 Develop Less Tumors Compared to Retinoblastoma Patients with Heterozygous Germline Mutations M. Ashwin Reddy, FRCOOth
8:59 am – 9:06 am	Corneal Confocal Microscopy Shows Progressive Reduction in Corneal Nerve Fiber Length over a 2 Year Time Period in Children with Type 1 Diabetes Stephanie A. Dotchin, MD
9:06 am – 9:20 am	PANEL DISCUSSION
9:30 am – 10:30 am	Difficult Non-Strabismus Problems in Pediatric Ophthalmology Laura B. Enyedi, MD; Sharon F. Freedman, MD; Phoebe Lenhart, MD; Steve Rosenberg, MD; Saurabh Jain, MD
10:40 am – 11:40 am	Difficult Problems Strabismus Linda R. Dagi, MD; Seyhan B. Ozkan, MD; Ramesh Kekunnaya, MD, FRCS; Lionel Kowal, MD; Andrea Molinari, MD; Yair Morad, MD; Federico G. Velez, MD
11:40 am	End of 2018 Meeting

Hard Board Posters

Poster numbers are subject to change. Please check the final program for poster number at the meeting. Poster Boards are vertically (portrait) oriented.

First Set of Posters

First set of posters will be displayed from 4:00 PM Sunday, March 18 – 4:00 Monday, March 19

PEDIATRIC OPHTHALMOLOGY PRACTICE – PUBLIC HEALTH

1	Linear and Periodic Trends in Ophthalmology-Related Internet Search Patterns of the US Population Isdin Oke
2	Parental Stress in a Pediatric Ophthalmology Population Sachin Kalarn, MD
3	The Impact of Child Life Specialists in an Outpatient Pediatric Ophthalmology Clinic Leeanne K. Lackey, CCLS
4	Direct-to-Consumer Virtual Visits: Is This The Next Generation Health-Care Delivery System for Pediatric Ophthalmology? Ankoor S. Shah
5	The Cycloplegic and Mydriatic Impact of Tropicamide Omission from a Routine Pediatric Eye Drop Combination Alain E. Sherman
6	Prevalence of Visual Impairment and Ocular Pathology and Achievability of Examination in a University-Based Eye Clinic for Patients with Disabilities Sheryl J. Menacker, MD
7	Microethics in Pediatric Ophthalmology Amy Huang, BA
8	Pediatric Ophthalmology Scope of Practice: Results of an AAPOS Survey Gregg T. Lueder, MD
9	Dyslexia: What We Know Irma Muminovic, MD
10	Postural Considerations During Retinal Examination at the Slit Lamp: Positional Adjustments to Patients and Equipment May Reduce the Risk of Musculoskeletal Symptoms in Ophthalmologists Safeer F. Siddicky, MD

OCULAR SENSORY

11	Treatment of Monofixation Syndrome by Laser Speckle Aidai R. Bazarbaeva, MD
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12	Sensory Testing and Stereopsis with Nintendo 3DS Game Robert W. Arnold
13	Investigation of Maximum Disparity and Stereopsis Helen Davis, DBO(T)
14	Fusional Vergence Amplitudes According to Ages Dilara Pirhan, MD
15	New Developed 4 Dot Light Test Mobile Application Rosario Gomez-de-Liano, MD, PhD

EXTRAOCULAR MUSCLES

16	Degeneration of Orbital Pulleys in Elderly Patients with Diplopia Toshiaki Goseki, MD, PhD
17	Normal Range of Ocular Duction in Various Age Brackets by Prism Shifting Light-Reflex Test Worawalun Honglertnapakul, MD
18	Extraocular Movement Deficits Secondary to Granulomatosis with Polyangiitis Lesions in Children Andre N. Ali-Ridha, MD
19	Correlation Between Age and Insertional Distance Between the Nasal Limbus and the Insertion of the Medial Rectus Muscle Measured in Surgery Takashi Negishi, MD, PhD
20	AS-OCT to Assess Extraocular Muscle Insertion Ana C. Almeida, MD
21	Characterization of the Neuromuscular Junction in Patients with Strabismus Jolene C. Rudell, MD, PhD

STRABISMUS

22	Strabismus Evaluation with a New Videoculograph Device (GazeLab) Maryo C. Kohen
23	Semi-Automatic Measurement of Horizontal Angle of Strabismus Using Digital Pictures Chloe C. Couret
24	Pediatric Strabismus Cases Possibly Related to Excessive Use of Information and Communication Technology Devices Tomoyo T. Yoshida, MD
25	Natural History of Accommodative Esotropia with High AC/A Ratio Margaret M. Reynolds
26	Distance Stereopsis in Patients with Accommodative Esotropia Sibel Oto, MD
27	New Method of Sensory Fusion Rehabilitation Using Intermittent Occlusion with LCD Glasses Satenik G. Agagulyan, MD
28	Axial Length as a Risk Factor for Development of Acquired Distance Esotropia Dana Garzuzi, MD
29	Decompensated Esophoria As A Benign Cause of Acute, Adult Onset Esotropia Muhammad Hassan Ali, MD
30	Cyclic Esotropia: White Matter Changes on MRI and Surgical Outcomes Kimberly Merrill, CO
31	Health-Related Quality of Life in Japanese Children with Intermittent Exotropia and Their Parents Akiko Hikoya
32	Abnormal Biorbital Angle in Children with Infantile Exotropia Mariko Tsukui, MD
33	Reversal of Central Fusional Disruption Associated with Severe Convergence Insufficiency Laura C. Huang, MD
34	Re-Reading the Same Line in Intermittent Exotropia is Related to the Saccadic Disconjugacy Takashi Fujikado, MD
35	Horizontal Saccadic Velocity in Patients with Exotropia Before and After Strabismus Surgery Miharu Mihara, MD
36	Binocular Coordination During Smartphone Reading in Patients with Intermittent Exotropia Masakazu Hirota
37	Quantitative Analysis of Inflammation in Orbital Fat of Thyroid-Associated Ophthalmology Using MRI Signal Intensity Tomoaki T. Higashiyama, MD

38	Background and Characteristics of Elderly Patients with Bilateral Diplopia Manami Kawai, CO
39	Influence of Diplopia on Health-Related Quality of Life in Medically-and Surgically-Treated Glaucoma Patients David A. Leske
40	Correlation of Diplopia and Quality of Life in Patients with Graves Orbitopathy Maria Alarcon, MD
41	Enlargement of the Superior Rectus and Superior Oblique Muscles Causes Intorsion in Graves' Eye Disease Yan Wei, MD, PhD
42	Observer Variability in Assessing Passive Cyclorotation Using Guyton's Exaggerated Traction Test Before Strabismus Surgery Tobias E. Torp-Pedersen
43	Objective Cyclodeviation Measurement in Normal Subjects by Means of Cyclocheck Application Piotr Loba
44	Strabismus Sursumadductorium or IVth Nerve Palsy: Similar Clinical Picture, Different MRI Imaging Features Giovanni B. Marcon, MD
45	Does Asymmetric DVD Exist? Improving Diagnosis with VOG Susana Gamio, MD
46	Innovative Non-Surgical Method in Vertical Strabismus Treatment Using New Prismatic Strabismus Compensators (PSC) Yevgeniya Shvets, MD
47	Ocular Neuromyotonia: Hypovitaminosis as a Possible Underlying Cause Catherine Cassiman
48	Strabismus Combined with Congenital Optic Disc Anomaly Heeyoung Choi, MD, PhD

NYSTAGMUS

49	Visual Acuity in Eccentric Gaze in Patients with Infantile Nystagmus Syndrome (INS) Rachida Bouhenni
50	Visual Outcomes in Children with Infantile Nystagmus (IN) Zahir B. Mirza, BSc, MBChB, FRCOphth
51	Visual Functioning in Adults with Idiopathic Infantile Nystagmus Syndrome (IINS) Aditi Das, MD, FRCOphth
52	Long-Term Follow-Up of Spasmus Nutans John W. Simon, MD
53	Nystagmus in Trisomy 21 (Down Syndrome) Dilys L. Oladiwura, MBBS, MSc, FRCOphth

GENETICS

54	Letting Nature Teach Us How to Cure Genetic Disease: The Identification of Modifier Genes Jefferson J. Doyle
55	Recognizing Bradyopsia in Children Arif O. Khan
56	Fresh Frozen Plasma (Octaplas) and Topical Heparin in the Management of Ligneous Conjunctivitis Anuradha Ganesh, MD
57	COMMAND: A Novel Syndrome Caused by Biallelic Mutation of the MITF Gene Brian P. Brooks
58	Electroretinographic and Optical Coherence Tomographic Characteristics of Mucopolysaccharidosis Type 1 Hurler and I Hurler-Scheie Stephanie N. Kletke, MD

NEURO-OPHTHALMOLOGY

59	Attitudes Concerning Cortical Visual Impairment Among Pediatric Ophthalmologists and Teachers of the Visually Impaired Sharon S. Lehman
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60	Visual Function after Cerebral Hemispherectomy Stacy L. Pineles
61	Comparison of Non-Sedated Cone Flicker ERG Screening Test and Conventional ERG under Anesthesia in Children Carla J. Osigian, MD
62	VEP Responses to Superior and Inferior Half-Field Stimuli in Children with Periventricular Leukomalacia Manca Tekavcic Pompe
63	Identification of Underlying Causes of Papilledema in Children Mihmet C. Mocan, MD
64	Iatrogenic Papilledema in Pediatric Patients Daniel J. Lattin, MD
65	Incidence of Surgical Intervention in Pediatric Intracranial Hypertension Hilliary E. Inger, MD
66	Visual Field Defects in Pediatric Intracranial Hypertension David L. Rogers, MD
67	Clinical Features, Management and Visual Outcomes of Children with Cerebral Venous Sinus Thrombosis, Raised Intra-Cranial Pressure and Papilloedema Ryan Davies, MBBCH
68	Venous Sinus Thrombosis and Alterations in CSF Dynamics, A Basis for ONSF for Vision Preservation: Theory and Case Examples Jason D. Jensen
69	A Population-Based Study of Neurofibromatosis Type I Brian G. Mohnney, MD
70	Tubulin Mutations and Ophthalmic Manifestations: A Pediatric Case Series Vasiliki Panteli, MD, PhD
71	Cerebroretinal Microangiopathy with Calcifications and Cysts (CRMCC) or Coats Plus When Peripheral Retinal Vasculature Signals Neurologic Disease Michael C. Brodsky, MD
72	Correlation of Disorders of the Spatial Vision System (Strabismus) and Amblyopia by Changes in Neural-Reflex Excitability and Metabolic Disorders at the Stages of Restoration of Pre-, Perinatal Encephalopathy Sevinj Salmanova
73	Carbon Monoxide Poisoning: Neuro-Ophthalmologic Findings in Three Patients Gill Roper-Hall, DBOT, CO
74	Oculomotor Ophthalmoplegic Migraine Associated with Schwannoma Shaza N. Al-Holou
75	Incidence and Clinical Features of Pediatric Myasthenia Gravis Erick D. Bothun, MD

TRAUMA

76	Corneal Injury and Impact of a Standard Eye Care Protocol in the Pediatric Intensive Care Unit Angela Niemi, BS
77	A Comparison of Unintentional Pediatric Ocular Trauma and Injuries Secondary to Assault – Analysis of the National Trauma Data Bank Ryan A. Gise, MD
78	Firearm-Related Pediatric Ocular Trauma: Analysis of Patterns in the United States Rebecca S. Weiss
79	Pediatric ATV Facial and Ocular Injuries in the United States Logan Wolford
80	Periocular Facial Scald Burns in Children: Is an Ophthalmology Consultation Necessary? Konstantinos Spiliopoulos
81	Hand-Held Spectral Domain Optical Coherence Tomography (HH-SDOCT) Findings in Children with Non-Accidental Injury (NAI) Bhamy Hariprasad Shenoy
82	Pathology of Macular Retinoschisis Due to Vitreoretinal Traction in Abusive Head Trauma Alex V. Levin, MD, MHSc

OCULAR INFECTION

83	A 6-Year Review on Preseptal and Orbital Cellulitis in Patients Under 18 Years Old and The Use of Steroids in Its Management within our Tertiary Center in Abu Dhabi Rawdha K. Al Nuaimi
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84	Pediatric Endophthalmitis: Incidence and Management Sahar Parvizi, FRCOphth
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VISION SCREENING

85	AAPOS Member Understanding of Regional Vision Screening in the United States Matthew Fukuda
86	Vision Screening Outcomes in Children Less than 3 Years of Age Compared to Children Older than 3 Years of Age Heather A. Stiff, MD
87	Results of Yearly Screening Using the SPOT Vision Screener in a Pediatric Cohort Between 2015-2017 Stephanie B. Terrill, MD
88	Accuracy of Spot Vision Screener in Detecting Refractive Errors in Adults Mehdi Tavakoli
89	Refractive and Biometric Outcomes Following Bevacizumab Versus Laser for Retinopathy of Prematurity Claire Hartnett, MD
90	Neurodevelopmental Outcomes Comparing Bevacizumab to Laser for Type 1 ROP Sarah M. Hilkert Rodriguez
91	Retinopathy of Prematurity Growth Pattern after Anti-VEGF Treatment Molly D. Scripture
92	Re-Treatment of Retinopathy of Prematurity after Primary Intravitreal Bevacizumab Monotherapy Youssef A. Helmy, MSc
93	Fluorescein Angiography Findings in Infants Treated with Intravitreal Bevacizumab for Retinopathy of Prematurity Sasha A. Mansukhani, MBBS, MS, FICO
94	Corneal Complications in Preterm Infants Jennifer Pan, MD

Second Set of Posters

Second set of posters will be displayed from 4:30 PM Monday, March 19 – 4:00 Tuesday, March 20

STRABISMUS SURGERY

97	Do Ophthalmology Residents Benefit from a Strabismus Surgery Course? Aldo Vagge
98	Gender and Strabismus Surgery Maureen E. Lloyd
99	What Makes a Good Operation Great?: The Role of HRQOL in Evaluating Success of Strabismus Surgery Peng Yong Sim
100	Using an Electronic Medical Record (EMR) to Audit the Clinical Outcomes of Strabismus Surgery John D. Ferris, FRCOphth
101	Towards Standardized Primary Strabismus Surgery: A Systematic Approach for a Surgical Plan Mari M. Gutter, MSc
102	Generating a Minimum Set of Outcome Measures for Auditing Strabismus Treatments – What to Collect and How to Do It – A Delphi Exercise John E. Somner
103	Strabismus Success in Children of Lower Socioeconomic Backgrounds Robert L. Dembinski
104	3-D Visualization System for Heads Up Strabismus Surgery Maanasa Indaram
105	Comparison of the Suture Material Vicryl 6-0 and 7-0 in Strabismus Surgery Elena A. Kudryashova, MD
106	Use of Intra-Operative Optical coherence Tomography in Assessing Depth of Scleral Passes During Strabismus Surgery Andrew N. Troia, MD
107	Fornix Incision Versus Minimally Invasive Strabismus Surgery (MISS) Approaches to Strabismus Surgery, An Effectiveness Study Saurabh Jain
108	Risk Factors for the Surgical Failure in Different Types of Strabismus Huseyin Gursoy, MD

109	A Survey on Conjunctival Closure in Strabismus Surgery J. Rotsen M. Evaristo
110	Chronic Inflammatory Granulomata after Intraoperative Use of GenTeal Gel during Strabismus Surgery Raymond G. Areaux, Jr., MD
111	Orbital Cysts after Strabismus Surgery: A Worldwide Survey Vincent N. Vu
112	Post-Operative Infection Following Strabismus Surgery: Case Series and Increased Incidence in a Single Large Referral Center Robert J. House
113	The Effect of Strabismus Muscle Surgery on Corneal Biomechanics Heba A. El Gendy, MD
114	Effects of Strabismus Surgery on Fixational Eye Movements Fatema Ghasia
115	A Quantitative Inferior Oblique Traction Test: Clinical Applications Stephen P. Kraft, MD
116	Evaluation of Stereoacuity Changes after Surgery in Vertical and Horizontal Strabismus Patients Gozde Bicaklioglu, MD
117	The Effect of Horizontal Rectus Muscle Surgery on Distance-Near Disparity Paul H. Phillips, MD
118	Botulinum Toxin-Augmentation of Strabismus Surgery in Large-Angle, Infantile Esotropia Michael J. Wan
119	Botulinum Toxin in High AC/A Ratio Accommodative Esotropia Jaime Tejedor
120	Long-Term Effect of Botulinum Toxin A in Early and Late Onset Esotropia Rita Gama, MD
121	The Use of Botulinum Toxin to Treat Infantile Esotropia: A Systematic Review with Meta-Analysis Dayane C. Issaho, MD
122	Role of Botulinum Toxin A in Cyclic Esotropia – A Long Term Follow Up Ayşe İpek Akyuz Unsal, MD
123	Characteristics and Surgical Outcomes of Acquired Non-Accommodative Comitant Esotropia with Diplopia in Children and Young Adults with Different Functional Prognoses Noriko Nishikawa, MD
124	The Value of Fusional Convergence Amplitudes in Esodeviation Surgery without Adjustable Sutures Anu Maudgil, FRCOphth
125	Surgical Dose-Response Relationship in Patients with Down Syndrome with Esotropia: A Comparative Study Osman Bulut Ocak
126	Bilateral Medial Rectus Recession for Mobius Syndrome Esotropia Carolina H. Torres, MD
127	A New Approach to Treat Esotropia in Patients with Large V-Pattern Moustafa S. Abdelhafez, FRCS, MD
128	Audit of Inferior Oblique Weakening Surgery to Determine Impact on Horizontal Alignment Yesa Yang
129	Comparison of Surgical Approaches to Inferior Oblique Overaction Erin G. Sieck, MD
130	Evaluation of Augmented Temporal Superior Rectus Transposition Combined with Adjustable Medial Rectus Recession in Sixth Nerve Palsy and Esotropic Duane Syndrome Type 1 Adeel Suhali Sethi, Medical Student
131	Lateral Rectus Resection in Type 1 Duane Retraction Syndrome (DRS) Selcen Celik, MD
132	Long Term Surgical Results Patients with Duane Retraction Syndrome Ebru Demet Aygit
133	Surgical Outcomes of Exotropic Duane Retraction Syndrome Jenil N. Sheth, DNB
134	Factors Associated with Surgical Success in Intermittent Exotropia Ecem Onder, MD
135	Comparison of Supramaximal Recession and Disinsertion/Extirpation of the Lateral Rectus Muscle for Treatment of Large Angle or Recurrent Exotropia Marlo Galli, CO
136	The Importance of the Orthoptist in the Treatment of Neurological Acquired Binocular Diplopia Sophie Polychroniadis-Scouros, DBOD

GENETICS

137	Longitudinal Study of the Ocular Phenotype in Mucopolysaccharidosis Krishanthi A. Sornalingam, MBBS
138	Prevalence of Cerebrotendinous Xanthomatosis Among Patients Diagnosed with Acquired Juvenile-Onset Idiopathic Bilateral Cataracts Monte A. Del Monte, MD
139	Factors Associated with Improved BCVA in OCA1A Laura May, CO
140	Multimodal Imaging Including Optical Coherence Tomography in Pediatric RP2 Patients Wadih M. Zein, MD
141	OCT and ERG Initial Findings in Leber Congenital Amaurosis and Genetic Analysis Sachiko Nishina, MD, PhD
142	Leber Congenital Amaurosis in Chuuk, Federated States of Micronesia Amani S. Albakri, MD

CONJUNCTIVA

143	Impact of Age on the Ocular Surface Microbiome Kara M. Cavuoto
144	A Phase 2, Randomized, Controlled Trial of Povidone-Iodine/Dexamethasone Ophthalmic Suspension for the Treatment of Adenoviral Conjunctivitis Jay S. Pepose

CORNEA

145	Pediatric Corneal Structural Development Characterized by Ultrasound Biomicroscopy Julia M. Byrd, MD
146	Use of Integrated Intraoperative Optical Coherence Tomography in Pediatric Corneal Surgery Sapna Tibrewal
147	Outcomes Following Crosslinking for Keratoconus in Pediatric Population Euna B. Koo, MD

ANTERIOR SEGMENT

148	Visualization of Schlemm's Canal From 3D Reconstruction of UMB Images Richard W. Helms, PhD
149	Evaluation of the Digital Slit Lamp for Anterior Segment Telemedicine Consultations Tiffany Ho, MD
150	Efficacy of Infliximab Treatment and Effect of Treatment Adherence on Disease Control in Children with Severe, Refractory Uveitis Virginia A. Miraldi Utz
151	Precision Pulse Capsulotomy (PPC) in Pediatric Cataract Surgery – Initial Results Ramesh Kekunnaya, FRCS
152	Clinical Outcomes of Pars Plana Capsulectomy and Anterior Vitrectomy in Pediatric Cataract Surgery William J. Johnson, MD
153	Comparison of Transscleral Sutureless Intraocular Lens and Retropupillary Iris-Claw Lens Fixation for Aphakia without Capsular Support in Children Asmaa Shuaib, MSc
154	Anatomic and Visual Outcomes Following Surgery for Persistent Fetal Vasculature: A 20-Year Retrospective Review Bashar M. Bata
155	Rate and Success of Secondary Procedure in Children with Primary Intraocular Lens Implantation Bharti Nihalani-Gangwani
156	Cataract Surgery in the Second Decade of Life: Outcomes and Cataract Characteristics Leah Bonaparte
157	Lensectomy for Ectopia Lentis Sarah A. Logan
158	A Comparison of Lens Fixation Techniques Versus Aphakia in the Treatment of Pediatric Ectopia Lentis Rohini R. Sigreddi

159	Strabismus in Infants Following Congenital Cataract Surgery Fatma Sumer, MD
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RETINA

160	Optos Ultra-Wide Field Imaging in Intubated Pediatric Patients Fabienne C. Fierz, MD
161	Electroretinography Using the RetEval ERG System in Healthy Children Katie M. Keck
162	Case Series of Children Presenting with Unilateral Retinitis Pigmentosa Carmel L. Mercado, MD
163	Optical Coherence Tomography Angiography after External Beam Irradiation Janelle Fassbender Adeniran
164	Retinal Findings in Children with Increased Intracranial Pressure Angell Shi, BS
165	Diabetic Retinopathy in Children: Results from a National Screening Programme Patrick Watts

OPTIC NERVE

166	Spectralis Spectral Domain Ocular Coherence Tomography in the Supine Child: Normative Reference Ranges for Children Ages 0-5 Years Jill Rotruck, MD
167	Optic Nerve Morphology in Normal Children: A Validation Study Devang L. Bhowala, MD

RETINOBLASTOMA

168	Retinoblastoma – A Point of Concern Asma Mushtaq
169	Optical Coherence Tomography of Retinoblastoma Shows Origin in Inner Nuclear Layer. Goldfish tail, Shark Fin, Porpoise Nose Signs Carol L. Shields, MD
170	Invisible Intraocular Tumors in Children: Detection with Multimodal Imaging Jerry A. Shields, MD
171	Preferred Retinal Locus in a Child with a Macular Retinoblastoma in the Only Eye Kenneth P. Johnson, C. MD
172	Associated Features of Strabismus in the Presentation of Retinoblastoma Miles F. Kiernan, MD

RETINOPATHY OF PREMATURETY

173	Evaluation of International Retinopathy of Prematurity Training Tala Al-Khaled, BA
174	Survey of Current Retinopathy of Prematurity Practices in China Thao Phuong H. Le
175	Practice Patterns for Retinopathy of Prematurity Examination Zachary P. Elkin
176	Identifying Premature Infants at Lowest Risk of Developing any ROP Graham E. Quinn, MD, MSCE
177	Winter Season of Conception Associated with an Increased Risk for Retinopathy of Prematurity (ROP) Michael B. Yang, MD
178	Perspectives of Parents, Clinicians, and Administrators on Digital Imaging in Infants at Risk for ROP Agnieshka Baumritter, MS
179	ROP Telemedicine M-Health Network with Smartphone Holder Helmet Device – Hands-Free Digital Indirect Ophthalmoscopy Technique Guillermo Andres Monteoliva, MD
180	Influence of Serial Retinal Images on the Diagnosis and Management of Retinopathy of Prematurity (ROP) Shin Hae Park

181	Symmetry of Disease of Retinopathy of Prematurity Anne K. Jensen, MD
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VISION – VISION SCREENING

182	The Fix and Follow Grade: A New Method of Grading the Visual Performance in Infant Hyeshin Jeon, MD
183	Comparison of Three Contrast Sensitivity Tests Anja M. Palmowski-Wolfe
184	Vision and Ametropia in Students with Albinism Susan M. Carden
185	Routine Testing of Visual Evoked Potential Asymmetry in Pediatric Patients with Albinism Simone Li
186	Visual Function Assessment in Children with Congenital Zika Virus Infection Julia D. Rossetto, MD
187	Prevalence of Uncorrected Refractive Errors among School-Aged Children in the School District of Philadelphia Eileen L. Mayro, BA
188	Discriminative Validity of Color Vision Tests in Young Children: Comparison of Normal and Impaired Vision Subjects Oliver A. Pfaeffli
189	Baltimore Reading and Eye Disease Study (BREDS): Two-Year Results on Compliance with Eyeglass Usage Megan E. Collins, MD, MPH
190	School-Based Delivery of Eye Care: The Baltimore Experience Moneesha R. Mukherjee, BA

Third Set of Posters

Third set of posters will be displayed from 4:30 PM Tuesday, March 20 – 4:00 Wednesday, March 21

STRABISMUS SURGERY

193	Long Term Outcomes of Adjustable Nasal Transposition of Split Lateral Rectus Muscle for Third Nerve Palsy – An International Perspective Mary-Magdalene U. Dodd, MD
194	Fascia Lata Augmented Nasal Transposition of Split Lateral Rectus for Reoperation of Complete Third Nerve Palsy Chong-Bin Tsai, MD, PhD
195	Treatment of Oculomotor Paralysis in Patients at Risk of Anterior Ischemia by Transposition without Disinsertion of the Rectus Muscles Elena E. Hernandez Garcia
196	Surgical Overcorrection in Two-Muscle Surgery for Unilateral Superior Oblique Palsy Associated with Ipsilateral Gaze Deviation David L. Nash, MD
197	Long Term Outcome of Surgery for Vertical Strabismus Secondary to 4 th Nerve Palsy Alina V. Dumitrescu
198	Novel Surgical Approach to Superior Oblique Myokymia Hersh Varma
199	Challenges of Managing Monocular Elevation Deficiency – A Series of 14 Patients Chandni Chakraborty, MS
200	Single Muscle Transposition in Monocular Elevation Deficit (MED) – A Novel Surgical Technique Uppal V. Gandhi, DNB
201	An Easy and Safe Operation Technique for Monocular Elevation Deficiency Birsen Gokyigit, MD
202	Lateral Rectus Equatorial Myopexy (LREM) for Sagging Eye Syndrome (SES) Azam A. Qureshi
203	The Management of Vertical Deviations in Sagging Eye Syndrome Sauna Berry, DO
204	Techniques and Outcomes of Strabismus Surgery in the Setting of Glaucoma Drainage Devices in the Pediatric Population Andrew R. Lee, MD

205	Botulinum Toxin for Strabismus Following Retinal Surgery Sonia S. Moorthy
206	Induced Hypertrophy of Extraocular Muscles after the Administration of Synthetic Peptides into Them Igor L. Plisov, MD
207	Comparison of Immediate and Long-Term Outcomes in Basic Exotropia Treated with and without Adjustable Suture Strabismus Surgery Majid Rouhbakhshzaeri
208	Evaluation of Surgical Efficacy of Plication Versus Resection of Medial Rectus in Intermittent Exotropia Pradeep I. Sharma, MD, FAMS
209	Primary Bilateral Medial Rectus Resection in Large Angle Childhood Exotropia Cristiana Soares Ronconi, MD
210	Comparison of Bilateral Lateral Rectus Muscle Insertion in Patients Who Have Intermittent Exotropia with Non-Dominant Eye Seung Ah Chung, MD
211	Clinical Outcomes of Adjustable Strabismus Surgery for Sensory Exotropia Samiksha Fouzdar Jain
212	Evaluating the Clinical Effectiveness of Medial Rectus Local Anesthetic Injections for the Treatment of Near Exotropia Rahul Dwivedi, BSc(Hons), MBChB
213	Periosteal Muscle Anchoring for Large Angle Incomitant Squint Sarah Hull

GENETICS

214	Genetic Analysis of Children with Hereditary Retinal Dystrophy within the National Health Care System of Costa Rica Joaquin Martinez, MD
215	Neuronal Ceroid Lipofuscinosis: The National Eye Institute Experience with Retinal Dystrophy Panel Testing Laryssa A. Huryn
216	Optical Coherence Tomography in Knobloch Syndrome Avrey Thau, BS
217	Prevalence of Ophthalmic Pathology in Children with Trisomy 21: A 5 Year Retrospective Review Collin Hair, MD
218	Whole Exome Sequencing in Familial Primary Comitant Exotropia Zia Chaudhuri, FRCS (Glasg), FICO

VISION SCREENING

219	Vision Screening in Finland Elina Karvonen, MD
220	Access to Pediatric Eye Care Following Vision Screening Michael Chung
221	Clinical Outcomes of State Mandated Kindergarten Eye Examinations in a Suburban Ophthalmology Clinic Noha S. Ekdawi, MD
222	Traditional and Instrument-Based Vision Screening in Third Grade Students Evan Silverstein
223	Setting High Referral Thresholds in Non-Cycloplegic Refraction Screening: Most Missed Children Have Borderline Refractive Risk Factors Oliver Ehrt, MD
224	Referral Outcomes from a Vision Screening Program for School-Aged Children John Anhalt, MD

AMBLYOPIA

225	What is Amblyopia? A Primary Care Physician's Perspective Maria C. Fernandez-Ruiz, MD
226	Intact Reading But Impaired Motor Skills During Binocular Viewing in Deprivation Amblyopia Krista R. Kelly
227	Vernier-Derived Position and Motion Deficits in Previously Untreated Anisometropic Amblyopia Sean I. Chen, PhD

228	Boston Amblyopia Study 1: Complete Resolution of Subthreshold Amblyopia with Standard Clinical Treatment Suzanne M. Michalak, MD
229	Boston Amblyopia Study 2: Treatment Outcomes in Patients with Asymmetric, Bilateral Amblyopia Talia N. Shoshany, BA
230	Use of Electronic Reminders in the Treatment of Amblyopia Kammi B. Gunton
231	Characteristic of Objective Compliance with Intermittent Occlusion Therapy Glasses Jingyun Wang
232	Role of Mobile Game Exercises as an Adjuvant to Amblyopia Therapy in Children Subhash Dadeya
233	Anatomical Retinal Comparison Using SD-OCT Between Previous Treated Amblyopic and Non-Amblyopic Eyes Tatiana T. Queiros, MD
234	Amblyopia with Eccentric Fixation: Is Inverse Occlusion Still an Option? Daisy J. Godts, CO
235	Using Electronic Medical Record to Perform a Live Audit of the Results of Amblyopia Treatment Jane Hadlington, BSc

MYOPIA – REFRACTIVE ERROR

236	Myopia Growth Chart Based on Korean National Health and Nutrition Examination Survey – A Novel Way to Predict Myopic Progression in Childhood Dae Hee Kim, MD
237	Myopia Progression in School Aged Children and Adolescence in Israel – A Clinical Practice Based Study Chaim Stolovitch
238	Risk Stratification of the Prevalence of Children Myopia by Parental Myopia in Hong Kong: Hong Kong Children Eye Study Jason C. S. Yam, MBBS, FRCS (Ed)
239	Current Trends to Decrease Myopia Progression Survey: An IPOSC Global Study Eedy Mezer, MD
240	Influence of Orthokeratology Lens on Axial Length Elongation and Myopic Progression in Childhood Myopia Su Jin Kim, MD
241	A Three Year Follow-Up Study of Atropine Treatment for Progressive Myopia in Europeans Jan Roelof Poling
242	Computed Tomography (CT) Based 3D Modeling to Provide Custom 3D Printed Glasses for Children with Craniofacial Abnormalities Frank L. Brodie, MD

CATARACT

243	Rubella Virus a Cause of Congenital Cataract – Not to Be Forgotten Seema Qayyum
244	Infectious Risk Factors for Congenital Cataract in Tanzania Richard Bowman, MD
245	Molecular Characteristics of Primary Pediatric Lens Epithelium Cells Daniel J. Salchow, MD
246	Assessment of the Necessity for Surgical Intervention in Unilateral Pediatric Cataract Michael C. Struck
247	Influences of Unilateral Posterior Lens Opacity on Visual Function and Ocular Structure Duoru Lin, PhD
248	Factors Affecting Visual Acuity after Unilateral Cataract Extraction in Pediatric Age Group Shereen H. Sadek Mourad, MD
249	Estimation of Intraocular Lens Power without Keratometry in Children under 4 Years of Age Soveeta Rath
250	Automated Volumetric Measurement of Anterior Chamber and Other Structures and Iridocorneal Angle Based on 3D Reconstruction of UBM Images Faruk H. Orge
251	Long-Term Experience Utilizing Optic Capture Through a Capsular Buttonhole for Pediatric Cataracts Stephen N. Lipsky, MD

RETINOPATHY OF PREMATURITY

252	Clinical Course and Treatment Rates of Retinopathy of Prematurity in Extremely Premature Infants Gurdeep Jhaj
253	Delayed Resolution of Retinopathy of Prematurity Mariam S. Ahmad, MD
254	Level, Timing, and Duration of Thrombocytopenia as a Risk Factor for the Development of Severe ROP in the Postnatal Growth and ROP (G-ROP) Study Alejandra G. de Alba Campomanes
255	The Relationship between Severe Bronchopulmonary Dysplasia and Severe Retinopathy of Prematurity in a Colorado Cohort Jasleen K. Singh, MD
256	Prevalence and Risk Factors of Retinal Detachment from Retinopathy of Prematurity Lauren A. Tomlinson
257	Treatment of Pre-Type 1 Disease in the Postnatal Growth and Retinopathy of Prematurity (G-ROP) Study Tianyu Liu, BA
258	Outcomes of Zone 1 Retinopathy of Prematurity Julius Oatts, MD
259	Plus Disease in Retinopathy of Prematurity: Should Diagnosis Be Eye-Based or Quadrant-Based? Sang Jin Kim
260	How is Plus Disease Diagnosed in ROP? Insights from a Deep Learning Computer-Based Image Analysis System with Occlusion Analysis Layla M. Ghergherehchi, MD
261	New and Unique Features of Aggressive Posterior Retinopathy of Prematurity Jason M. So, MD
262	Outcomes of Laser Photocoagulation for ROP in the Decade after Early Treatment for Retinopathy of Prematurity Trial (ETROP) Nasrin N. Tehrani, MD
263	Retinopathy of Prematurity after Intravitreal Ranibizumab Monotherapy Mariana A. Flores Pimentel, MD

GLAUCOMA

264	Does Esotropia (ET) Cause Globe Retraction in Adduction Similar to Primary Open Angle Glaucoma (POAG) with Normal Intraocular Pressure (IOP)? Joseph L. Demer
265	Primary Angle Closure Glaucoma in Children: Four Cases and a Review of Pediatric Plateau Iris Configuration Unikora Yang, MD
266	Risk Factors and Time to Failure of Pediatric Angle Surgeries Nader M. Mettias
267	Glaucoma Drainage Devices in Children: Risk Factors of Failure and Complications Austin Bach
268	Nanophthalmos in Children – Morphometric and Clinical Characterization Sumita Agarkar
269	Cyclodiode Photocoagulation in the Management of Pediatric Glaucomas over a 15-Year Period Eulee Seow, MD
270	Endoscopic Diode Cyclophotocoagulation (ECP) for Refractory Childhood Glaucoma Tanya S. Glaser
271	Management of Glaucoma Associated with Peters Anomaly Kara A. Dolezal, MD
272	Surgical Outcomes of Glaucoma Drainage Device (GDD) Implantation for Refractory Sturge Weber-Associated Childhood Glaucoma Landon C. Meekins, MD
273	Failure of Goniosurgery for Glaucoma Associated with Struge-Weber Syndrome Helen H. Yeung, MD

NACOLACRIMAL DUCT OBSTRUCTION

274	Relationship Between Mode of Delivery, Gestational Age and Birth Weight on the Incidence of Congenital Nasolacrimal Duct Obstruction Senem Salar-Gomceli, MD
275	Association Between Congenital Nasolacrimal Duct Obstruction and Mode of Delivery Daniela P. Reyes-Capo, BA
276	Resolution Rates in Congenital Nasolacrimal Duct Obstruction Managed with Massage and Antibiotics Compared to Observation Alone Saraiya Sathiamoorthi, BS
277	The Treatment of Neonatal and Infantile Dacryocystoceles and Dacryocystitis with the Microdebrider Lame Khatib, MD
278	Endoscopic Abnormalities in Children with Nasolacrimal Duct Obstruction Zisansha Zahirsha
279	Visual and Refractive Outcomes in Early Versus Late Congenital Nasolacrimal Duct Obstruction Spontaneous Resolution or Intervention Thomas B. Gillette, MD
280	Refractive Status of Children with Unilateral Congenital Nasolacrimal Duct Obstruction Aysel Pelit, MD

OCULOPLASTICS

281	Developmental Change of the Biorbital Angle in Normal Japanese Children Yoshimi Yokoyama, MD
282	An Alternative Surgical Approach for Marcus Gunn Jaw Wink Ptosis Karen Revere, MD
283	Using a Low Cost 3D Printer for Pre-Contouring Orbital Implants in Children with Floor and Rim Fractures Mitchell Strominger
284	Topical Cyclosporine-A in Pediatric Ocular Graft Versus Host Disease Pinar Bingol Kiziltunc
285	Meibum Structure in Pediatric Graft Versus Host Disease Aparna Ramasubramanian
286	Periocular Asymmetry in Patients with Deformational Plagiocephaly Anna I. Schweigert, CO
287	Canine Tooth Syndrome Following Cosmetic Rhinoplasty Alejandro Armesto, MD
288	Strabismus Associated with Congenital Ptosis Lauren Fletcher, DO