



23rd International
Symposium on Recent
Advances in Otitis
Media



INTERNATIONAL
SOCIETY FOR
**OTITIS
MEDIA**



Children's Hospital
of Philadelphia™
Hub for Clinical Collaboration



ISOM 2025 ★ June 15-18 ★ Philadelphia, PA
Abstract Submissions: January 1 – March 5, 2025



ISOM Program

SCIENTIFIC PROGRAM

Monday, June 16 th		
TIME	TITLE & PRESENTER/MODERATOR	LOCATION
7:00 AM – 5:00 PM	Registration Opens	
7:30 AM – 8:00 AM	Morning Coffee with Exhibitors	HUB Lobby
8:00 AM – 8:30 AM	Welcome & Special Remarks <i>President's Welcome – Allen Ryan, PhD</i> <i>Program Overview – Kavita Dedhia, MD, MSHP, FAAP</i>	HUB Auditorium
8:30 AM – 9:45 AM	Opening Keynote: Changing the Paradigm of Childhood Hearing Loss Globally Keynote Introduction by Allen Ryan, PhD Opening Keynote Speaker: Susan Emmett, MD, MPH	
9:45 AM – 10:00 AM	Coffee Break with Exhibitors	HUB Lobby
10:00 AM – 12:00 PM	Concurrent Session I Moderators: Aaron Moberly, MD; Neel Sangal, MD	Abramson CR-01-123 ABC
10:00 AM – 10:15 AM	Long-Term Effects of Recurrent Acute Otitis Media on Balance and Vestibular Function in Pediatric Patients Mirko Aldè, MD	
10:15 AM – 10:30 AM	Incidence and Risk Factors of Postoperative Sensorineural Hearing Loss After Cholesteatoma Removal Keshav V. Shah, BS	
10:30 AM – 10:45 AM	Risk Factors for Conversion to Canal Wall Down at Second Look Following Primary Canal Wall Reconstruction in Cholesteatoma Adam S. Vesole, MD	
10:45 AM – 11:05 PM	Clinical Characteristics and Surgical Outcomes of Secondary Acquired Cholesteatoma: A Retrospective Study Kaori Tateyama, MD, PhD	
11:05 AM – 11:20 PM	Conservative Treatment of Mastoiditis Without the Need for Imaging- A 20-Year Follow-Up Study Ayalon Hader, MD	
11:20 AM – 11:40 PM	Pediatric Acute Mastoiditis Severity – Can Inflammatory Biomarkers Help Us? Tal Marom MD	
11:40 AM – 12:00 AM	Biofilms-Related Tympanostomy Tube Otorrhea – In Vivo Eradication of Biofilms in Optical Tympanostomy Tube Activated by Antimicrobial Blue Light in a Chinchilla Model Vishakha Sabharwal, MD	
10:00 AM – 12:00 PM	Concurrent Session II Moderators: Ruth Thornton PhD, Zuzana Penxová	HUB Auditorium
10:00 AM – 10:15 AM	Otitis-prone Children Have a Distinct Innate Immune Signature with Higher Frequencies of Circulating Immune Cells and Reduced Cytokine Responses to Live NTHi and Protein D Sharon Clark	
10:15 AM – 10:30 AM	Immune Pathways in Chronic Otitis Media Jamil Taylor, MD MPH	
10:30 AM – 10:50 AM	Pneumococcal Vaccines: It's Complicated, and It Will Get More Complicated Andrew Cox, MD, PhD	
10:50 AM – 11:10 AM	Eighteen Year Longitudinal Study of Uncomplicated and Complex Acute Otitis Media during the Pneumococcal Conjugate Vaccine Era, 2006-2023 Frank Salamone, MD	
11:10 AM – 11:30 AM	Gene Regulation in Middle Ear Epithelial Cells During Otitis Media Allen F Ryan, PhD	

11:30 AM – 11:45 AM	Pharmacokinetic Comparison of Augmentin ES-600 and a Reduced Concentration Clavulanate Formulation in Young Children Carl Peck MD	
11:45 AM – 12:00 PM	The Effect of Antimicrobial Treatment on the Resolution of Pain in Children with Acute Otitis Media Tuuli Vuorisalo	
12:00 PM – 1:30 PM	Lunch with Exhibitors	HUB Lobby
12:15 PM – 1:30 PM	Exhibitor Presentations	HUB Auditorium
1:30 PM – 3:30 PM	Session III Moderators: Ken Brockman PhD; Arwa Kurabi PhD	HUB Auditorium
1:30 PM – 1:50 PM	Quantitative and qualitative evaluation of anti-pneumococcal specific antibodies in children with recurrent acute otitis media Masamitsu Kono	
1:50 PM – 2:10 PM	Immune Dysfunction Explains Otitis Proneness in Children Michael Pichichero, MD	
2:10 PM – 2:25 PM	Cross-Talk Between the Stringent Response and Natural Competence in Haemophilus influenzae Mary Marino, B.S., B.A.	
2:25 PM – 2:40 PM	Long-term Quality of Life Outcomes in Pediatric Surgical Otitis Media Management Mimi Kim, BS	
2:40 PM – 2:55 PM	Multimodal Handheld Raman Spectroscopy and Optical Coherence Tomography System for In-Vivo Clinical Evaluation of Otitis Media Maya Modi, M.S.	
2:55 PM – 3:10 PM	Towards Developing a Bacterial Gene Expression Diagnostic of Persistent Ear Infections Evangeline Williams, MS	
3:10 PM – 3:30 PM	Rare and low-frequency genetic variants in families with otitis media Regie Santos-Cortez, MD, PhD	
3:45 PM – 4:15 PM	Poster Pitch Session	HUB Auditorium
4:15 PM – 4:30 PM	ISOM Members Meeting	HUB Auditorium
4:30 PM – 7 PM	Welcome Reception/Poster Session	HUB Lobby

Tuesday, June 17th

TIME	TITLE & PRESENTER/MODERATOR	LOCATION
7:00 AM – 5:00 PM	Registration Opens	
7:30 AM – 8:00 AM	Morning Coffee with Exhibitors	HUB Lobby
8:00 AM – 11:15 AM	Panel Sessions	HUB Auditorium
8:00 AM – 9:00 AM	The Role of Artificial Intelligence in Otitis Media Diagnostics Moderator: Guillermo Monroy, PhD Panelists: Tulio Valdez MD MSC; Aaron Moberly MD; Anke Leichtle, MD; Alejandro Hoberman, MD	
9:00 AM – 10:00 AM	Multidisciplinary Approach to Complex Otitis Media Cases Moderator: Tal Marom, MD Panelists: Nofar Ben-Mordechai Sharon, MD; John Mcateer MD; Brian Dunham MD; Michele Gaffuri MD; Diego Preciado, MD PhD	
10:00AM – 10:15 AM	Coffee with Exhibitors & Networking	HUB Lobby
10:15 AM – 11:15 AM	Novel Medical and Surgical Techniques in Otitis Media Management Moderator: Tiffany Hwa, MD Panelists: Ruth Thornton, PhD; Joseph Kerschner, MD; John Germiller, MD PhD; John Gleeson PhD	
11:15 AM—12:00PM	Eustachian Tube Dilation Updates Scott Rickert, MD	HUB Auditorium
12:00 PM – 1:00 PM	Lunch with Exhibitors	
1:00 PM – 4:00 PM	Concurrent Session: Surgeons Program Ken Kazahaya, MD MBA FACS FAAP	Penn Temporal Bone Lab
1:00 PM – 1:15 PM	Perceptis Presentation	
1:15 PM – 1:30 PM	Surgical Adenoidectomy Coblation Techniques Ken Kazahaya, MD MBA FACS FAAP	
1:30 PM – 1:45 PM	TULA: In-office Myringotomy and Tube Placement Jordan Schram, MD MS	
1:45 PM – 4:00 PM	Hands on Eustachian Tube Dilation and In-office Myringotomy and Tube Placement	
1:00 PM – 4:00 PM	Concurrent Session: COMMeND Works in Progress Symposium Moderators: Regie Santos-Cortez, MD PhD; Diego Preciado, MD PhD; Allen Ryan, PhD	HUB Auditorium
1:00 PM – 1:15 PM	The first year of COMMeND: Results from an R25-funded mentoring network program for otitis media researchers Regie Santos-Cortez, MD PhD	

1:15 PM – 1:30 PM	Prospective evaluation of the effectiveness of adjuvant adenoidectomy for pediatric otitis media protocol Kavita Dedhia, MD MSHP FAAP
1:30 PM – 1:45 PM	<i>The myth of the silver bullet: Multidrug tolerance and the stringent response in Haemophilus influenzae</i> Mary Marino BS BA
1:45 PM – 2:00 PM	Condition-specific transcriptomic shifts associated with outer membrane decoration due to loss of <i>msf</i> in <i>Haemophilus influenzae</i> Evangeline M. Williams MS
2:00 PM – 2:15 PM	Impact of Triplication of <i>IFNRs</i> on Otitis Media and Hearing Loss in a Mouse Model of Down Syndrome Regina Gendzelevski Kelmann PhD
2:15 PM – 2:30 PM	The <i>A2m11</i> knockout mouse as a model for chronic otitis media: Hearing thresholds and middle ear analysis Matthew Hill MD
2:30 PM – 2:45 PM	Role of <i>Muc5b</i> overexpression in middle ear pathology and otitis media susceptibility Helen Z. Gomez BS
2:45 PM – 3:00 PM	Type I Interferon signaling enhances <i>Streptococcus pneumoniae</i> middle ear infection Steven C. Shaw BS
3:00 PM – 3:15 PM	Specific immune response of the epithelium in otitis media Jonas Fleckner MD
3:15 PM – 3:30 PM	Commensal-derived protein RL-2020 reduces Haemophilus influenzae colonisation and prevents otitis media in mice Brianna Atto, PhD
3:30 PM – 3:45 PM	Single-cell genomic profiling of middle ear mucosa in otitis media with effusion Z. Jason Qian MD
3:45 PM – 4:00 PM	Developing cold microplasma exposure as a novel therapeutic treatment for bacterial acute otitis media with preliminary results in a small animal model Guillermo Monroy, PhD
6:00 PM – 8:00 PM	ISOM Banquet at The College of Physicians Philadelphia

Wednesday, June 18th

TIME	TITLE & PRESENTER/MODERATOR	LOCATION
7:00 AM – 5:00 PM	Registration Opens	
7:30 AM – 8:00 AM	Morning Coffee with Exhibitors	Poster Hall
8:00 AM – 10:00 AM	Concurrent Session IV Moderators: Anke Leichtle MD; Regina Gendzelevski Kelmann PhD	HUB Auditorium
8:00 AM – 8:20 AM	Advantages of Digital Otoscopy Videos Over Still Images for Computer-aided Diagnosis of Ear Diseases Aaron Moberly, MD	
8:20 AM – 8:40 AM	Explainable Artificial Intelligence for the Diagnosis of Acute Otitis Media Nader Shaikh, MD	
8:40 AM – 8:55 AM	Clinical impact of artificial intelligence in otology: a systematic review Yuriy Stankov	
8:55 AM – 9:15 AM	Clinical Utility of an Optical Coherence Tomography Middle Ear Scope: Interim Results of the Modification of Antibiotic Treatment Intervention in Children (OTO-MATIC) Pragmatic Cluster Randomized Controlled Trial April Zambelli Weiner, PhD MPH	
9:15 AM – 9:30 AM	Exploration of Polarization-Sensitive OCT as a Diagnostic Tool for Microstructural Changes in Diseased Tympanic Membranes Jordan, Villa, BS	
9:30 AM – 9:45 AM	Coherent Optical Detection of Middle Ear Disease Roger Daley Jr MS	
9:45 AM – 10:00 AM	Machine learning approaches to evaluate optical coherence tomography images and clinical data of patients with otitis media Guillermo L, Monroy, PhD	
8:00 AM – 10:00 AM	Concurrent Session V Moderators: Garth Ehrlich PhD; Brianna Atto PhD	Abramson CR-01-123 ABC
8:00 AM – 8:20 AM	In vivo evolution and the regulation of heme-iron utilization by Haemophilus influenzae during otitis media Alistair Harrison, PhD	
8:20 AM – 8:35 AM	Non-typeable Haemophilus influenzae small RNAs in the middle ear during otitis media Kylie Krohmaly, PhD	
8:35 AM – 8:55 AM	Dysregulation of tryptophan biosynthesis as a putative treatment approach for the otopathogen nontypeable Haemophilus influenzae Kevin, Mason PhD	
8:55 AM – 9:10 AM	Tissue-specific effects of virus-induced type I interferon signaling on bacterial clearance from the middle ear Sarah, Clark, PhD	

9:10 AM – 9:25 AM	Investigation of the effects of competitive inhibitors on the of the Bacterial Stringent Response Responsible for Multi-Drug Tolerance associated with Biofilms and Persisters Felicity Tso, MS	
9:25 AM – 9:40 AM	Anti-Inflammatory Estrogen Signaling During Pediatric Otitis Media Rachel, Jones, BS	
9:40 AM – 10:00 AM	Longitudinal dynamics of the upper respiratory microbiome in children with recurrent acute otitis media Jillian Hurst, PhD	
10:00 AM – 10:10 AM	Coffee with Exhibitors	
10:10 AM – 12:00 PM	Concurrent Session VI Moderators: Robyn Marsh MLS, MSc, PhD; Michal Trope MD	Abramson CR-01-123 ABC
10:10 AM – 10:25 AM	Outcomes and Complications of Surgical Otitis Media Management: A Systematic Review and Meta-analysis Alex Irace, MD	
10:25 AM – 10:40 AM	Postinfective modiolus erosion – a case series Torsten Buddee Roos, MD	
10:40 AM – 11:00 AM	Innovative workforce enhancement model to strengthen cultural, social, and health care determinants of ear and hearing problems in remote regions. Peter S Morris, MD PhD	
11:00 AM – 11:15 AM	A program of research to transform the landscape of middle ear disease in young people within the Hunter New England Local Health District (NSW, Australia) and beyond: methodology and goals Olivia Carroll	
11:15 AM – 11:30 AM	What factors do health professionals perceive as affecting the success of otitis media detection programs for First Nations children? A scoping review of qualitative literature. Lisa, Callahan	
11:30 AM – 11:45 AM	Aboriginal Health Practitioner Improvement of Children’s Access to ENT Service in Primary Practice Trumaine Rankmore	
11:45 AM – 12:00 PM	Parental Perspectives on Machine Learning for Childhood Ear Health. Jacqueline Stephens, MPH PhD	
10:10 AM – 12:05 PM	Concurrent Session VII Moderators: Michael Pichichero, MD; Jonas Fleckner MD	HUB Auditorium
10:10 AM – 10:30 AM	Update on In-office Tympanostomy Tube Insertion after 1,400 Children in 14 Years Richard M. Rosenfeld, MD MPH MBA	
10:30 AM – 10:50 AM	Long Term Effectiveness of Solo+ TTD: A Single Step Tympanostomy Tube (TT) Delivery Device Joseph E. Kerschner, MD FACS FAAP	
10:50 AM – 11:05 AM	Effects of adenoidectomy and adenotonsillectomy on tympanostomy tube reinsertion based on population data of Korea Junhui Jeong, MD PhD	
11:05 AM – 11:20 AM	Complications of Pediatric Ventilating Tubes: A National Population-Based Longitudinal Study Nofar Ben Mordechai, MD	
11:20 AM – 11:35 AM	Atypical Bacterial Species in Chronic Suppurative Otitis Media Jemima Beissbarth, PhD	
11:35 AM – 11:50 AM	A hybrid emulsion-hydrogel for noninvasive treatment of acute otitis media Charles, Knisely	
11:50 AM – 12:05 PM	Blue and Ultraviolet Irradiation as Possible Therapeutic Alternatives for Otitis Media Zuzana Penxová	
12:05 PM – 1:00 PM	Lunch with Exhibitors	
1:00 PM – 2:00 PM	Panel: Clinical Practice Guidelines From Around the World Moderator: Paula Tähtinen, MD PhD Panelists: Richard M. Rosenfeld, MD, MPH, MBA; Tania Sih, MD; Anne Hermansson MD	HUB Auditorium
2:00 PM – 3:00 PM	Awards & Closing Remarks <i>Program Remarks – Ken Kazahaya, MD MBA FACS FAAP</i> <i>Awards Ceremony - Kavita Dedhia, MD, MSHP, FAAP</i> <i>Closing Remarks – Kevin Mason, PhD</i>	HUB Auditorium
3:00 PM	Meeting Adjourns	