

TRIOLOGICAL SOCIETY  
121ST ANNUAL MEETING AT COSM  
GAYLORD RESORT, NATIONAL HARBOR, MD

FRIDAY, APRIL 20, 2018

- 7:00 - 7:50**      ***Business Meeting (Triological Fellows only)***  
***New Fellow Ceremony and Reception***
- 7:55**              **Welcome and Introductions by President**  
Mark S. Persky, MD FACS, New York, NY
- Presidential Citations**  
Sujana S. Chandrasekhar, MD FACS, New York, NY  
Stanley M. Shapshay, MD FACS, Albany, NY  
My Residents - Past and Present
- 8:05**              **Presidential Address**  
**Patient Trust - Entitled or Earned?**  
Mark S. Persky, MD FACS, New York, NY
- 8:25 - 9:05**      **Introduction of Guest of Honor and Joseph H. Ogura, MD Annual Lecturer**  
**Modernizing VA: Caring for Veterans in the 21st Century**  
Honorable David J. Shulkin, MD, US Secretary of Veterans Affairs
- 9:05**              **Introduction of 2018 Thesis Award Presenters**  
Dana M. Thompson, MD FACS, Chicago, IL
- 9:07**              **2018 Harris P. Mosher Award for Clinical Research - *Thesis Presentation***  
**How Does Aging Affect Recognition of Spectrally Degraded Speech?**  
Aaron C. Moberly, MD, Columbus, OH
- 9:14**              **2018 Edmund Prince Fowler Award for Basic Research - *Thesis Presentation***  
**Disruption of Sinonasal Epithelial Nrf2 Enhances Susceptibility to Rhinosinusitis in a Mouse Model**  
Murugappan Ramanathan, MD FACS, Baltimore, MD
- 9:21**              **2018 Maureen Hannley Award for Alternative Science - *Thesis Presentation***  
**A Comprehensive Look at Chronic Rhinosinusitis Using a Claims Database**  
James C. Denny, MD FACS, Alexandria, VA
- 9:28**              **Q&A**
- 9:33**              ***Break in Exhibit Hall/View Posters***

CONCURRENT SESSION 1  
HEAD & NECK AND LARYNGOLOGY

- 9:55 - 10:35 HEAD AND NECK PANEL: SURVIVORSHIP: A CRITICAL PROGRAM FOR CANCER PATIENTS**  
**Moderator:** Jonas T. Johnson, MD FACS, Pittsburgh, PA  
**Panelists:** Susan George, PT DPT MS OCS WCS, Pittsburgh, PA  
Leila Mady, MD PhD MPH, Pittsburgh, PA  
Marci L. Nilsen, PhD RN, Pittsburgh, PA  
Tamara Wasserman, MS CCC-SLP, Pittsburgh, PA
- Moderators: Giovana R. Thomas, MD FACS, Miami, FL**  
**Miriam Lango, MD FACS, Philadelphia, PA**
- 10:35 Spinal Accessory Nerve Neural Mapping Reduces Shoulder Syndrome in Neck Dissection**  
Robert L. Witt, MD, Newark, DE; Marisa Srivareerat, PhD, Philadelphia, PA
- 10:40 Outcomes and Prognostic Factors for p16 Positive Oropharyngeal Carcinoma: A Long Term Analysis**  
Parul Sinha, MBBS, St. Louis, MO; Bruce H. Haughey, MBChB, Celebration, FL; Dorina Kallogjeri, MPH, St. Louis, MO; Ryan S. Jackson, MD, St. Louis, MO
- 10:45 Racial Differences in Oral Human Papillomavirus Infection and Sexual Behaviors in the United States**  
Janet S. Choi, MD MPH, Los Angeles, CA; Liyang Tang, MD, Los Angeles, CA; Niels C. Kokot, MD, Los Angeles, CA; Uttam K. Sinha, MD, Los Angeles, CA
- 10:50 Long Term Quality of Life in Patients Receiving Definitive Multimodality Treatment for Sinonasal Skull Base Malignancies**  
Matthew A. Tyler, MD, Houston, TX; Abdallah S.R. Mohamed, MD MSc, Houston, TX; Clifton D. Fuller, MD PhD, Houston, TX; Ehab Y. Hanna, MD, Houston, TX; Shirley Y. Su, MBBS FRACS, Houston, TX
- 10:55 Postoperative Analgesic Requirement and Pain Perceptions after Minor Head and Neck Surgery**  
Elizabeth D. Stephenson, BA, Chapel Hill, NC; Zainab Farzal, MD, Chapel Hill, NC; Katherine N. Adams, BA, Chapel Hill, NC; April M. Tanner, MD, Chapel Hill, NC; Adam M. Zanation, MD, Chapel Hill, NC; Eugenie Du, MD, Chapel Hill, NC
- 11:00 HPV+ Oropharyngeal Cancer: Do You Really Know Your Patients?**  
Annika M. Meyer, MD, New York, NY; Daniel A. Alicea, MD, New York, NY; Carol A. Fakhry, MD, Baltimore, MD; Gypsyamber A. D'Souza, PhD, Baltimore, MD; Brett A. Miles, MD, New York, NY
- 11:05 Utilization of Post-Acute Care Following Major Head and Neck Oncologic Surgery with Free Flap Microvascular Reconstruction**  
Harman S. Parhar, MD, Vancouver, BC Canada; Brent A. Chang, MD, Phoenix, AZ; Donald W. Anderson, MD, Vancouver, BC Canada; J. S. Durham, MD, Vancouver, BC Canada; Eitan Prisman, MD, Vancouver, BC Canada
- 11:10 Q&A**

**11:15 - 12:00**      **LARYNGOLOGY PANEL: STATE OF THE ART**  
**Moderator:** Julina Ongkasuwan, MD, Houston, TX  
**Panelists:**      **Injection Augmentation**  
Tanya K. Meyer, MD, Seattle, WA  
                  **Objective Reflux Testing**  
Jonathan M. Bock, MD, Milwaukee, WI  
                  **Reinnervation Revisited**  
Marshall E. Smith, MD FACS, Salt Lake City, UT  
                  **Pediatric Voice**  
Karen B. Zur, MD BS, Philadelphia, PA

**12:00**                **Adjourn**

**Afternoon**        **ALA/ABEA, AOS, ARS, AND ASPO MEET**

**5:30 - 7:00**      **TRIO, ANS, AOS, AAFPRS MEET THE AUTHORS POSTER RECEPTION**

**CONCURRENT SESSION 2**  
**OTOLOGY/NEUROTOLOGY AND PEDIATRIC OTOLARYNGOLOGY**

**Moderators: Joni K. Doherty, MD PhD FACS, Seal Beach, CA**  
**Michael Hoa, MD, Washington, DC**

- 9:55**                **Policy vs. Patient Safety and the Annulment of Medical Clearance Exams for Hearing Aids: Are We Closing the Book too Soon?**  
Tedeau K. Green, MD, Detroit, MI; Robert S. Hong, MD PhD, Detroit, MI;  
Jonathan W. Koons, BS, Detroit, MI
- 10:00**                **Twelve Month Outcomes of Eustachian Tube Procedures for Management of Patulous Eustachian Tube Dysfunction**  
Bryan K. Ward, MD, Baltimore, MD; Godwin Abiola, BA, Baltimore, MD; Kosuke Kawai, PhD, Boston, MA; Yehia Ashry, MD, Boston, MA; Dennis S. Poe, MD PhD, Boston, MA
- 10:05**                **Development of a Novel Augmented Reality (AR) Platform for Lateral Skull Base Anatomy**  
Pawina Jiramongkolchai, MD, St. Louis, MO; Michael Southworth, BS, St. Louis, MO; Nedim Durakovic, MD, St. Louis, MO; Craig A. Buchman, MD, St. Louis, MO;  
Jonathan R. Silva, PhD, St. Louis, MO; Jonathan L. McJunkin, MD, St. Louis, MO
- 10:10**                **Temporal Bone CT Scan for Middle Ear Ligaments Assessment**  
Yona Vaisbuch, MD, Stanford, CA; Davood K. Hosseini, MD, Stanford, CA (Presenter);  
Bryan Lanzman, MD, Palo Alto, CA; Stephen C. Marcott, BS, Palo Alto, CA; Yohan Song, MD, Palo Alto, CA; Jennifer C. Alyono, MD, Palo Alto, CA; Nikolas H. Blevins, MD, Palo Alto, CA
- 10:15**                **Human Caudate Nucleus Subdivisions in Tinnitus Modulation**  
Philip L. Perez, MD, San Francisco, CA; Leighton B. Hinkley, PhD, San Francisco, CA;  
Sarah Wang, PhD, San Francisco, CA; Srikantan S. Nagarajan, PhD, San Francisco, CA;  
Paul S. Larson, MD, San Francisco, CA; Steven W. Cheung, MD, San Francisco, CA
- 10:20**                **Otosyphilis: Resurgence of an Old Disease with a New Presentation**  
Hailey A. Theeuwen, BS, Seattle, WA; Jamie R. Litvack, MD MS, Seattle, WA;  
Mark E. Whipple, MD SM, Seattle, WA

- 10:25**            **Over the Counter Tinnitus Cures: Hucksters' Promises Do Not Ring True**  
 Varun Vendra, MD, Stanford, CA; Yona Vaisbuch, MD, Stanford, CA; Albert Mudry, MD, Stanford, CA; Robert Jackler, MD, Stanford, CA
- 10:30**            **Radiographic Findings in Young Adults with Asymmetric Sensorineural Hearing Loss**  
 Gregory G. Capra, MD, Chapel Hill, NC; Catherine Y. Park, MS, North Chicago, IL;  
 Hiba Z. Khan, MS, North Chicago, IL; Michelle A. Lim, MS, North Chicago, IL;  
 Amado J. Beltran, MS, North Chicago, IL; Myron W. Yench, MD, North Chicago, IL
- 10:35**            **Shifting Trends in Management of Vestibular Schwannoma - A National Cancer Database Analysis**  
 Bassel A. Bashjawish, BA, Newark, NJ; Suat Kilic, BA, Newark, NJ;  
 Jean Anderson Eloy, MD, Newark, NJ; Yu-Lan Mary Ying, MD, Newark, NJ
- 10:40**            **Q&A**
- 10:45 - 11:30**    **OTOLOGY/NEUROTOLOGY PANEL: IS THE EUSTACHIAN TUBE THE KEY?**  
**Moderator:** Joseph G. Feghali, MD FACS, Bronx, NY  
**Panelists:** Sujana S. Chandrasekhar, MD FACS, New York, NY  
 Dennis S. Poe, MD PhD FACS, Boston, MA  
 William H. Slattery III, MD, Los Angeles, CA  
 Eric E. Smouha, MD FACS, New York, NY

**PEDIATRIC OTOLARYNGOLOGY**

**Moderators: Jeffrey P. Simons, MD FACS, Pittsburgh, PA  
 Diego A. Preciado, MD PhD, Washington, DC**

- 11:30**            **Pediatric HIV and Otolaryngologic Manifestations: An Analysis of Hospital Admissions from 1997-2012**  
 Aparna Govindan, BA, Newark, NJ; Evelyne Kalyoussef, MD FACS, Newark, NJ
- 11:35**            **Age Stratified Differences in Management and Outcomes of Pediatric Cervical Abscesses**  
 Jonathan A. Harounian, MD, Philadelphia, PA; Robert A. Saadi, MD, Hershey, PA;  
 Michele M. Carr, MD PhD, Morgantown, WV
- 11:40**            **Validating Peritonsillar Abscess Surgical Drainage Rates among Pediatric Patients Using the Pediatric Hospital Information System (PHIS) Data**  
 Romaine F. Johnson, MD, Dallas, TX; Allison G. Ordemann, MD, Dallas, TX (Presenter);  
 Benjamin Little, BA, Villa Rica, GA
- 11:45**            **Increased Rate of Bleeding with Ibuprofen Use after Tonsillectomy: A Meta-Analysis**  
 William A. Stokes, MD, Morgantown, WV; Robert T. Swanson, BS, Hershey, PA;  
 Jane R. Schubart, PhD MS MBA, Hershey, PA; Michele M. Carr, MD PhD FRCS, Morgantown, WV
- 11:50**            **Are Zika Exposed Infants at Risk? Early Swallow and Hearing Outcomes One Year after the Outbreak**  
 Si Chen, MD, Los Angeles, CA; Joaquin E. Jimenez, BS, Miami, FL; Megan E. Ballard, MD, Miami, FL; Ramzi T. Younis, MD, Miami, FL

- 11:55**            **Evaluation of a Magnetic Resonance Imaging Only Protocol in the Assessment of Children Prior to Cochlear Implantation**  
Jennifer M. Siu, MD, Toronto, ON Canada; Sharon L. Cushing, MD, Toronto, ON Canada; Susan Blaser, MD, Toronto, ON Canada; Blake C. Papsin, MD, Toronto, ON Canada
- 12:00**            **Cervical Abscess Outcomes in Children under 2 Years**  
Jonathan A. Harounian, MD, Philadelphia, PA; Laila Siddique, MD, Hershey, PA; Michele M. Carr, MD, Morgantown, WV
- 12:05**            **Q&A**
- 12:10**            **Adjourn**
- Afternoon*        **ALA/ABEA, AOS, ARS, AND ASPO MEET**
- 5:30 - 7:00**     **TRIO, ANS, AOS, AAFPRS MEET THE AUTHORS POSTER RECEPTION**

**SATURDAY, APRIL 21, 2018**

**7:00 - 7:50**        **Annual Business Meeting (Triological Fellows only)**

**8:00 - 12:00    SCIENTIFIC SESSION**

**8:00**            **Welcome by President**  
Mark S. Persky, MD FACS, New York, NY

**FACIAL PLASTIC/RECONSTRUCTIVE SURGERY**

**8:05 - 8:50**        **FACIAL PLASTIC/RECONSTRUCTIVE SURGERY PANEL: FACIAL ANOMALIES: THE "WONDER" EFFECT**

**Moderator:**    Deborah Watson, MD FACS, San Diego, CA  
**Panelists:**     Shelagh A. Cofer, MD, Rochester, MN  
                      Steven L. Goudy, MD FACS, Atlanta, GA  
                      Andrew R. Scott, MD FACS, Boston, MA  
                      Travis T. Tollefson, MD MPH FACS, Sacramento, CA

**Moderators: Robin W. Lindsay, MD, Boston, MA**  
**Jeffrey H. Spiegel, MD FACS, Newton, MA**

**8:50**            **In-Office Treatment of Nasal Valve Obstruction Using a Novel, Bipolar Radiofrequency Device**  
Ofer Jacobowitz, MD PhD, New York, NY; Mark S. Driver, MD, Middletown, NY; Moshe Ephrat, MD FACS, Lake Success, NY

**8:55**            **Major Auricular Avulsion Injuries and Reattachment Techniques: A Systematic Review**  
Andrew D. Gailey, MS, Chapel Hill, NC; William W. Shockley, MD, Chapel Hill, NC; Douglas Farquhar, MD, Chapel Hill, NC; Joseph M. Clark, MD, Chapel Hill, NC

**9:00**            **Return to Alcohol Use in Free Flap Patients for Head and Neck Cancer**  
Naillid Felipe, BA, Boston, MA; Pamela Huang, BA, Boston, MA; Richard D. Hubbell, MD, Boston, MA; Waleed Ezzat, MD, Boston, MA

**9:05**            **A High Throughput Platform for Nerve Conduit Assessment**  
Suresh Mohan, MD, Boston, MA; Wenjin Wang, MD PhD, Boston, MA; Ivan Coto Hernandez, PhD, Boston, MA; Nate T. Jowett, MD, Boston, MA

**9:10**            **Q&A**

## LARYNGOLOGY/BRONCHOSOPHAGOLOGY

**Moderators: Jennifer L. Long, MD PhD, Los Angeles, CA  
Amanda Hu, MD**

**9:15**            **Outcomes of Intubation Induced Vocal Fold Paralysis and Paresis**  
Debbie R. Pan, BA, Miami, FL; Nancy Jiang, MD, Oakland, CA

**9:20**            **Cranial Nerve X Compression at the Brainstem Associated with Chronic Cough, Unilateral Vocal Fold Paresis, Vocal Fold Spasm, Dysphoric Breathing, and Dysphagia: Diagnosis and Treatment Outcomes**  
Robert J. Taylor, MD, Charleston, SC; Stephen R. Lowe, MD, Charleston, SC; Nick Ellis, BS, Charleston, SC; Evan Abdullah, BS, Charleston, SC; Sunil J. Patel, MD, Charleston, SC; Lucinda A. Halstead, MD, Charleston, SC

**9:25**            **Brain Networks for Speech Motor Control and Auditory Processing in Unilateral Vocal Fold Paralysis**  
Molly L. Naunheim, MD, San Francisco, CA; Katherine C. Yung, MD, San Francisco, CA; Sarah L. Schneider, CCC-SLP, San Francisco, CA; Jennifer Henderson-Sabes, AuD, San Francisco, CA; Srikantan S. Nagarajan, PhD, San Francisco, CA; Steven W. Cheung, MD, San Francisco, CA

**9:30**            **The Effects of Endoscopic Sinus Surgery on Voice Characteristics and Quality of Life in Chronic Rhinosinusitis Patients**  
Danny B. Jandali, MD, Chicago, IL; Ashwin Ganti, BA, Chicago, IL; Inna A. Husain, MD, Chicago, IL; Pete S. Batra, MD FACS, Chicago, IL; Bobby A. Tajudeen, MD, Chicago, IL

**9:35**            **Q&A**

**9:40**            **Automated Quantification of Vocal Fold Motion after Iatrogenic Recurrent Laryngeal Nerve Injury in a Mouse Surgical Model**  
Megan M. Haney, DVM, Columbia, MO; Ali S. Hamad, BS, Columbia, MO; Filiz E. Bunyak, PhD, Columbia, MO; Teresa E. Lever, PhD, Columbia, MO

**9:45**            **Factors Associated with Epiglottic Petiole Prolapse Repositioning Success**  
Mathieu Bergeron, MD BPharm, Cincinnati, OH; Alessandro De Alarcon, MD MPH, Cincinnati, OH; Catherine K. Hart, MD, Cincinnati, OH; Michael J. Rutter, MD, Cincinnati, OH

**9:50**            **How Design Characteristics of Tracheostomy Tubes Affect the Cannula and Tracheal Flows**  
Liran Oren, PhD, Cincinnati, OH; Dhananjay Radhakrishnan Subramaniam, MS, Cincinnati, OH; Ephraim Gutmark, PhD, Cincinnati, OH; Paul Jay Willging, MD, Cincinnati, OH

**9:55 Adenoid Size by Drug Induced Sleep Endoscopy Compared to Nasopharyngeal Mirror Exam**  
Habib G. Zalzal, MD, Morgantown, WV; Michele M. Carr, MD, Morgantown, WV;  
William J. Kohler, Morgantown, WV; Steven W. Coutras, MD, Morgantown, WV

**10:00 Q&A**

**10:05 - 10:35 Break with Exhibitors**

## ALLERGY/RHINOLOGY

**10:35 - 11:20 ALLERGY/RHINOLOGY PANEL: ATYPICAL CHRONIC RHINOSINUSITIS**

**Moderator:** Andrew N. Goldberg, MD MSCE FACS, San Francisco, CA

**Panelists: Identification of Immune Deficiency**

Sandra Y. Lin, MD, Baltimore, MD

**Cystic Fibrosis**

Steven D. Pletcher, MD, San Francisco, CA

**Rheumatologic/Systemic Disorders**

Eric H. Holbrook, MD, Boston, MA

**Moderators: Melissa A. Pynnonen, MD Msc, Ann Arbor, MI**

**Leigh J. Sowerby, MD FRCSC, London, ON**

**11:20 Eustachian Tube Balloon Dilation: Emerging Practice Patterns for a Novel Procedure**

Steven B. Micucci, MD, Oakland, CA; Jonathan Liang, MD, Oakland, CA;

David B. Keschner, MD, Irvine, CA

**11:25 Modified EEA with a Minimally Invasive Transoral Approach--An Adjunct to Infrapetrous Approaches**

Guillermo Maza, MD, Columbus, OH; Ali M. Moustafa Omar, MD, Columbus, OH;

Somasundaram Subramaniam, MD, Columbus, OH; Bradley A. Otto, MD, Columbus, OH;

Daniel M. Prevedello, MD, Columbus, OH; Ricardo L. Carrau, MD, Columbus, OH

**11:30 Does Appropriate Medical Therapy Improve SNOT-22 Domain Scores? An Investigation of the Minimum Clinically Important Difference**

Naweed I. Chowdhury, MD, Nashville, TN; Jess C. Mace, MPH, Portland, OR;

Todd E. Bodner, PhD, Portland, OR; Jeremiah A. Alt, MD PhD, Salt Lake City, UT;

Adam S. DeConde, MD, San Diego, CA; Timothy L. Smith, MD MPH, Portland, OR

**11:35 Balloon Catheter Dilation of the Sinuses: A 2011-2014 MarketScan® Analysis**

David W. Jang, MD, Durham, NC; Cecily F. Abraham, BS, Durham, NC; Derek D. Cyr, PhD,

Durham, NC; Kristine A. Schulz, MPH DrPH, Durham, NC; Ralph Abi Hachem, MD MS,

Durham, NC; David L. Witsell, MD MHS, Durham, NC

**11:40 Mucosal Bleeding and Intraoperative Visibility during Endoscopic Sinus Surgery: A Blinded Randomized Controlled Trial with Labetalol and Esmolol**

Philip F. Lavere, BS, Galveston, TX; Nikunj A. Rana, MD, Galveston, TX;

Michael P. Kinsky, MD, Galveston, TX; Mohamad R. Chaaban, MD, Galveston, TX

**11:45 Does Inferior Turbinate Augmentation Help Empty Nose Syndrome Patients? Using Validated Disease Specific Questionnaires**

Andrew V. Thamboo, MD MHSc, Vancouver, BC Canada; Navarat Tangbumrungtham, MD,

Palo Alto, CA; Nicole Bouchard, BA, Palo Alto, CA; Sachi Dholakia, BS, Palo Alto, CA;

Vishal S. Patel, BS, Palo Alto, CA; Jayakar V. Nayak, MD PhD, Palo Alto, CA

**11:50 Factors Associated with Patient Nonattendance in Rhinology Clinics**

Benjamin N. Hunter, MD, Springfield, IL; Arun Sharma, MD MS, Springfield, IL; Dana Crosby, MD, Springfield, IL

11:55 Q&A

12:00 - 1:00 Lunch Break

1:00 - 5:00 SCIENTIFIC SESSION

GENERAL AND SLEEP MEDICINE

1:00 - 1:50 **PANEL: WHAT TO EXPECT WHEN BABY BOOMERS GO BUST**

**Moderator:** Kathleen L. Yaremchuk, MD MSA, Detroit, MI

**Panelists:** **Age Is More Than a Number: Frailty**

Christine G. Gourin, MD FACS, Baltimore, MD

**Do Not Go Gentle Into That Good Night: Aging Up**

M. Boyd Gillespie, MD MSc FACS, Memphis, TN

**Caring for Older Adults Who Are Dizzy and Giddy**

Yuri Agrawal, MD, Baltimore, MD

**The Voice of the Baby Boomer**

Katherine A. Kendall, MD FACS, Salt Lake City, UT

**Moderators: Nasir I. Bhatti, MD FACS, Baltimore, MD**

**Kourosh Parham, MD PhD, Farmington, CT**

1:55 **Lingual Tonsillectomy and Pediatric Obstructive Sleep Apnea: Does Doing More Improve Outcomes?**

Habib G. Zalzal, MD, Morgantown, WV; Michele M. Carr, MD, Morgantown, WV; Steven W. Coutras, MD, Morgantown, WV

2:00 **Upper Airway Stimulation (UAS) and Sleep Outcomes: A Meta-Analysis**

Anvesh R. Kompelli, BA, Charleston, SC; Jonathan S. Ni, BA, Charleston, SC; Shaun A. Nguyen, MD, Charleston, SC; Eric J. Lentsch, MD, Charleston, SC; David M. Neskey, MD, Charleston, SC; Ted A. Meyer, MD PhD, Charleston, SC

2:05 **Gender Bias in Human Otolaryngology Clinical Research**

Zainab Farzal, MD, Chapel Hill, NC; Elizabeth D. Stephenson, BA, Chapel Hill, NC; Lauren A. Kilpatrick, MD, Chapel Hill, NC; Brent A. Senior, MD, Chapel Hill, NC; Adam M. Zanation, MD, Chapel Hill, NC

2:10 **Analysis of Patient Factors Associated with Mortality after Tracheostomy Using the Global Tracheostomy Collaborative Database**

Khaled Kashlan, MD, Detroit, MI; Steven S. Chang, MD, Detroit, MI; Amy Williams, PhD, Detroit, MI; Kathleen L. Yaremchuk, MD, Detroit, MI; Ross M. Mayerhoff, MD, Detroit, MI

2:15 **Otolaryngology Hospitalist Provides Effective and Efficient Tracheostomy Service**

Mohamad R. Issa, MD MS, Pittsburgh, PA; Sara Mater, BS, Pittsburgh, PA; Carl H. Snyderman, MD MBA, Pittsburgh, PA; Yan W. Ho, MD, Pittsburgh, PA

2:20 **Gender Bias and Reporting in Basic Science and Translational Otolaryngology Research**

Elizabeth D. Stephenson, BA, Chapel Hill, NC; Zainab Farzal, MD, Chapel Hill, NC (Presenter); Lauren A. Kilpatrick, MD, Chapel Hill, NC; Brent A. Senior, MD, Chapel Hill, NC; Adam M. Zanation, MD, Chapel Hill, NC



- 2:25**      **A Standardized Clinical Assessment and Management Plan (SCAMP) to Optimize Treatment for Adults with Obstructive Sleep Apnea**  
David R. Lee, MD, Cincinnati, OH; Nithin S. Peddireddy, BS, Cincinnati, OH;  
Rahul N. Prasad, MBA, Cincinnati, OH; Matthew T. Maksimoski, MD, Chicago, IL;  
Hannah E. Qualls, MD, Cincinnati, OH; Stacey L. Ishman, MD MPH, Cincinnati, OH
- 2:30**      **Q&A**
- 2:35 - 3:05**      **Break with Exhibitors**
- 3:05 - 3:55**      **PANEL: POTPOURRI**  
**Moderator:** Thomas L. Carroll, MD, Boston, MA  
**Panelists:**    **Patenting and Commercializing Your Intellectual Property: Important Lessons**  
Subinoy Das, MD FACS, Columbus, OH  
                  **Effective Teaching for the Next Generation**  
Kevin Fung, MD FRCS(C) FACS, London, ON  
                  **CPG's in Your Practice**  
Eunice Y. Chen, MD PhD, Lebanon, NH  
                  **Use Your EMR to Document Quality**  
Jennifer J. Shin, MD, Boston, MA  
                  **Simulation for the Practitioner**  
Marvin P. Fried, MD FACS, Bronx, NY
- CLINICAL FUNDAMENTALS AND GENERAL**
- Moderators: Charles A. Hughes, MD FACS, Houston, TX**  
**Oliver F. Adunka, MD, Columbus, OH**
- 3:55**      **Critical Care Resources Utilized in High Risk Adenotonsillectomy Patients**  
Jennifer M. Lavin, MD MS, Chicago, IL; Craig M. Smith, MD, Chicago, IL;  
Zena Leah Harris, MD, Chicago, IL; Dana M. Thompson, MD MS, Chicago, IL
- 4:00**      **Implementation of a Nurse Telephonic Triage Service for After Hour Patient Calls in Otolaryngology**  
Shannon F. Rudy, MD, Palo Alto, CA; Jennifer Y. Lee, MD, Palo Alto, CA; Nidhi Rohatgi, MD, Palo Alto, CA
- 4:05**      **Operating Room Ergonomics: A Practical Approach for Reducing OR Ergonomic Hazards**  
Yona Vaisbuch, MD, Stanford, CA; Ksenia Aaron MD, Stanford, CA (Presenter);  
Justin M. Moore, MD PhD, Palo Alto, CA; John Vaughan, CPE MSE, Palo, CA;  
Robert K. Jackler, MD, Stanford, CA
- 4:10**      **Lean Thinking in an Inpatient Otolaryngology Consult Service**  
Kristen D. Pitts, MD, Jackson, MS; Jonathan E. Sorrel, MD, Jackson, MS;  
Alexandra S. Brown, MD, Jackson, MS
- 4:15**      **I Dream of Gini: Quantifying Inequality in Otolaryngology Residency Interview Invitations**  
Andrew H. Lee, MD, Baltimore, MD; Patrick J. Young, BS, Baltimore, MD; Ross S. Liao, BS, Baltimore, MD; Paul H. Yi, MD, Baltimore, MD; Douglas D. Reh, MD, Baltimore, MD
- 4:20**      **Q&A**

- 4:25 Evaluation of the Program Specific Paragraph in the Otolaryngology Residency Application**  
Katelyn O. Stepan, MD, New York City, NY; Vivian F. Kaul, MD, New York City, NY; Aaishah Raquib, BA, Boston, MA; Rosh K. Sethi, MD MPH, Boston, MA; Stacey T. Gray, MD, Boston, MA; Marita S. Teng, MD, New York, NY
- 4:30 Patient Opinions Regarding Surgeon Presence, Trainee Participation, and Overlapping Surgeries**  
Alexandra M. Arambula, BS BA, Nashville, TN; Kemberlee Bonnet, MA, Nashville, TN; David G. Schlundt, PhD, Nashville, TN; Alexander Langerman, MD FACS, Nashville, TN
- 4:35 Eliminating Tracheostomy Tube Related Pressure Injuries in Adults**  
Daniel J. Carroll, MD, Augusta, GA; Christopher J. Leto, MD, Augusta, GA; Mark A. Fritz, MD, Lexington, KY; James K. Byrd, MD, Augusta, GA; Stilianos E. Kountakis, MD PhD, Augusta, GA; Gregory N. Postma, MD, Augusta, GA
- 4:40 Otolaryngology Head and Neck Surgery Resident Well Being and Perceptions of the Clinical Learning Environment**  
Kelley M. Dodson, MD, Richmond, VA; Nital P. Appelbaum, PhD, Richmond, VA; Nathaniel A. Lee, MD, Richmond, VA; Michael F. Amendola, MD, Richmond, VA; Brian J. Kaplan, MD, Richmond, VA
- 4:45 Occult Malignancy in Adult Tonsillectomy for Benign Indication: Systematic Review and Case Series**  
Noah P. Syme, MD, Albuquerque, NM; Noah P Syme, MD, Albuquerque, NM; Ashley M. Dorneden, BS, Albuquerque, NM; Therese J. Bocklage, MD, Albuquerque, NM; Fred S. Herzon, MD, Albuquerque, NM; Duncan A. Meiklejohn, MD, Albuquerque, NM
- 4:50 Q&A**
- 4:55 Introduction of President-Elect by Mark Persky, MD**  
Sigsbee W. Duck, MD, Rock Springs, WY
- 5:00 *Adjourn***

## POSTER PROGRAM

### Allergy/Rhinology

- I 1. **The Utility of Preoperative Imaging and Intrathecal Fluorescein in the Operative Management of Cerebrospinal Fluid Rhinorrhea**  
John P. Flynn, MD, Kansas City, KS; Anna C. Pavelonis, BS, Kansas City, KS;  
Alexander G. Chiu, MD, Kansas City, KS; Jennifer A. Villwock, MD, Kansas City, KS
- I 2. **Safety and Feasibility Endoscopic Sinus Surgery in the Geriatric Patient**  
Samuel N. Helman, MD, New York, NY; Brian Deutsch, BS, New York, NY; Robert Chouake, BS,  
New York, NY; Alfred M. Iloreta, MD, New York, NY; Anthony Del Signore, MD, New York, NY
- I 3. **Unilateral Hyposmia: A Case of Sinonasal Glomangiopericytoma**  
Jessica B. Howell, MD, Richmond, VA; Sherna S. Sheth, DDS, Richmond, VA; Adele O. Kraft, MD,  
Richmond, VA; Ryan S. Nord, MD, Richmond, VA
- I 4. **Safety and Efficacy of Frontal Sinus Stents: A Systematic Review**  
Ahmed Awad Hussein, MD, Cairo, Egypt
- I 5. **Using Mucosal Eosinophilic Count as a Guide in the Management of Chronic Rhinosinusitis**  
Mingsi Li, MD, Augusta, GA; Christopher J. Ito, MD, Augusta, GA; Stilianos E. Kountakis, MD,  
Augusta, GA
- I 6. **Crowd vs. Surgeons: Assessing Skill in Functional Endoscopic Sinus Surgery for Tasks that Require Anatomical Knowledge**  
Anand Malpani, PhD, Baltimore, MD; Masaru Ishii, MD PhD, Baltimore, MD (Presenter); Narges  
Ahmidi, PhD, Baltimore, MD; Lisa Ishii, MD MHS, Baltimore, MD; S. Swaroop Vedula, MBBS PhD,  
Baltimore, MD; Gregory D. Hager, PhD, Baltimore, MD
- I 7. **Endoscopic Removal of Intranasal Supernumerary Tooth Presenting as Nasal Obstruction and Epistaxis**  
Tiffany T. Pham, MS, Irvine, CA; Steven M. Chau, MD, Irvine, CA; Ifegwu O. Ibe, MD, Irvine, CA;  
Beverly Y. Wang, MD, Irvine, CA; Brian J.F. Wong, MD PhD, Irvine, CA
- I 8. **Intraseptal Mucocele as a Long Term Complication of Revision Septorhinoplasty: A Case Report and Review of a Rare Entity**  
Jordan W. Rawl, MD, Galveston, TX; Nicholas A. Rossi, BA, Galveston, TX;  
Mohamad R. Chaaban, MD, Galveston, TX; Paul C. Brindley, MD, Galveston, TX

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- I 9. **Factors Impacting Otolaryngology in Training Exam (ITE) Scores**  
Kristan P. Alfonso, MD, Lexington, KY; Frank W. Dicken, BS, Lexington, KY; Marcia V. Rojas  
Ramirez, DDS, Lexington, KY; Matthew L. Bush, MD PhD, Lexington, KY; Brett T. Comer, MD,  
Lexington, KY
- I 10. **Citation and Quotation Errors in Otolaryngology Journals: An Update**  
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John E. Fenton, FRCSI, Limerick, Ireland; Daniel H. Coelho, MD, Richmond, VA
- I 11. **Word Cloud Visual Letters of Recommendation Non-Inferior to Standard Letters of Recommendation**  
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Jennifer A. Villwock, MD, Kansas City, KS; Alexander G. Chiu, MD, Kansas City, KS;  
Kevin J. Sykes, PhD MPH, Kansas City, KS

- I 12. **Comparison of Otolaryngologic Surgery Referral Pathways at a Public Safety Net Hospital versus a Private Tertiary Care Academic Hospital**  
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- I 13. **Quality Improvement: Improving Education amongst Healthcare Providers in Management of Obligate Neck Breathers**  
Elizabeth S. Burckardt, MD, Louisville, KY; Craig H. Ziegler, PhD, Louisville, KY; Swapna K. Chandran, MD, Louisville, KY; Jeffrey M. Bumpous, MD, Louisville, KY
- I 14. **Otolaryngologists in the Veterans Health Administration: Is There a Gender Gap?**  
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- I 15. **Insurance Barriers for Tracheotomy Related Durable Medical Equipment**  
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- I 16. **The Role of Otolaryngology in a Tracheostomy Care Team**  
Mohamad R. Issa, MD MS, Pittsburgh, PA; Sara Mater, BS, Pittsburgh, PA; Carl H. Snyderman, MD MBA, Pittsburgh, PA; Yan W. Ho, MD, Pittsburgh, PA
- I 17. **Otolaryngology Residency Interviewing Dates and Practices: What Should an Applicant Expect?**  
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- I 18. **Reaching Across the Aisle: The State of Cross-Disciplinary Collaboration in Otolaryngology**  
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- I 19. **Representation of Developing Countries in Otolaryngology Research: A Survey of Three Influential Otolaryngology Journals**  
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- I 20. **Resident Selection Process: Comparison of Traditional Ranking to Talent Based Assessment on Two Interview Days**  
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- I 21. **Time Driven Activity Based Costing (TDABC) in Otolaryngology - Head & Neck Surgery: Dissecting the Cost of an Adenotonsillectomy in an Academic Medical Center**  
Jonathan C. Simmonds, MD, Boston, MA; Russell J. Hollis, BS, Boston, MA; Ruby K. Tamberino, MBA, Allston, MA; Mark A. Vecchiotti, MD, Boston, MA
- I 22. **Discharge by Noon: An Initiative by the Otolaryngology Service**  
Akina Tamaki, MD, Cleveland, OH; Kathryn Rose Hoppe, MD, Cleveland, OH; Nicole Catherine Maronian, MD, Cleveland, OH

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- I 23. **Orbital Fractures: A Retrospective Analysis of 173 Cases at a Nationally Recognized Trauma Center**  
Kareem M. Al-Mulki, , Atlanta, GA; Oswaldo A. Henriquez, MD, Atlanta, GA; Angela Cheng, MD, Atlanta, GA; Steven M. Roser, DMD MD, Atlanta, GA; Dina Amin, DDS, Atlanta, GA
- I 24. **Epistaxis in Patients with Antithrombotic Treatment: A Comparison between Factor Xa Inhibitors, Warfarin and Antiplatelet Therapy**  
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- I 25. **Evolving Trends in Thyroid Cancer among Pediatric and Adult Inpatient Populations**  
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- I 26. **Dangers of Videolaryngoscopy Assisted Intubation: Risk for Multiple Otolaryngologic Complications**  
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- I 27. **Unclogging the Drain: Case Report of a Rare Complication**  
Anna E. Jackanich, BS, Los Angeles, CA; Caitlin Bertelson, MD, Los Angeles, CA; Jasper Shen, MD, Chicago, IL; Karla O'Dell, MD, Los Angeles, CA
- I 28. **Syphilis of the Oropharynx: Case Series of "The Great Masquerader"**  
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- I 29. **Complementary and Alternative Medicine within Otolaryngologic Perioperative Care: A Review**  
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- I 30. **A Review of Open Access Solicitation in Otolaryngology**  
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- I 31. **Secondary Syphilis: A Case of Unknown Primary**  
Jaclyn Klimczak, MD, New York, NY; Arvind K. Badhey, MD, New York, NY; Angela Damiano, MD, Arsdley, NY
- I 32. **Cost Differences between Otic and Ophthalmic Drops**  
Jiahui Lin, MD, New York, NY; Lawrence R. Lustig, MD, New York, NY
- I 33. **Indications for Surgical Management of Hyoid Bone Syndrome**  
Jenny F. Ma, BA, Philadelphia, PA; Arvind K. Badhey, MD, New York, NY; Raymond L. Chai, MD, New York, NY
- I 34. **Epidemiology and Resource Utilization of Ludwig's Angina Emergency Department Visits in the United States from 2006 to 2014**  
Jamiela A. McDonough, BS, Washington, DC; Iasson Yi, BS MA, Washington, DC; Adedoyin O. Kalejaiye, MD, Washington, DC; Gezzer Ortega, MD MPH, Washington, DC

- I 35. **A Branchial Cleft Cyst of the Parapharyngeal Space**  
Kinneri Mehta, MD, Farmington, CT; Maheep Sohal, MD, Farmington, CT; Clinton Kuwada, MD, Farmington, CT; Gregory Bonaiuto, MD, Farmington, CT
- I 36. **Extracranial Carotid Artery Aneurysm Presenting as a Parapharyngeal Space Mass**  
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- I 37. **Maternity and Paternity Leave in Otolaryngology Residency Training**  
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- I 38. **Frontal Sinus Obliteration by Autologous Fat Complicated by Infection: A Case Report**  
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- I 39. **Assessing Basic Otolaryngology Competency among Medical Students: A Multi-Institutional Study**  
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- I 40. **Nasal Fractures: Analysis of 255,533 Patients in the National Trauma Data Bank**  
Tiffany T. Pham, MS, Irvine, CA; Ellen K. Lester, BS, Irvine, CA; Areg Grigorian, MD, Irvine, CA; Rachel E. Roditi, MD, Boston, MA; Jeffry T. Nahmias, MD MHPE, Irvine, CA
- I 41. **A Low Cost Simulator for Flexible Laryngoscopy**  
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- I 42. **Multifocal Extra Parotid Warthin's Tumor - An Uncommon Presentation of Bilateral Cervical Lymphadenopathy**  
Ryan A. Rimmer, MD, Philadelphia, PA; Elizabeth E. Cottrill, MD, Philadelphia, PA
- I 43. **Balloon Sinuplasty for the Unstable Frontal Sinus Fracture: A Case Report**  
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- I 44. **Tracheotomy Care for the Nonsurgical Provider: A Quality Improvement Project**  
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- I 45. **The Otolaryngology Match: A Bibliometric Analysis of 222 First Year Residents**  
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- I 46. **Going Global: Interest in Global Health among US Otolaryngology Residents**  
Julia C. Toman, MD, New Haven, CT; Melynda A. Barnes, MD, New York, NY; Elias M. Michaelides, MD, New Haven, CT
- I 47. **Thyroglossal Duct Cyst in the Elderly: Case Report and Review of the Literature.**  
Weitao Wang, MD, Rochester, NY; Sveta Karelsky, MD, Rochester, NY

- I 48. **Epidemiology and Survival Outcomes of Gingival Squamous Cell Carcinoma: A Comparison by Primary Site**  
Jose E. Alonso, MD, Los Angeles, CA; Thomas E. Heineman, MD, Los Angeles, CA;  
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- I 49. **Patterns of Cervical Node Metastases and Their Prognostic Impact in Patients with Squamous Cell Carcinoma of the Lower Gingiva: A Population Based Analysis**  
Jose E. Alonso, MD, Los Angeles, CA; Thomas E. Heineman, MD, Los Angeles, CA;  
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- I 50. **The Impact of Sentinel Lymph Node Biopsy and Neck Dissection on Survival of Patients with Early Stage Merkel Cell Carcinoma of the Head and Neck**  
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- I 51. **National Evaluation of Sentinel Lymph Node Biopsy for Early Stage Oral Cavity Cancer**  
John D. Cramer, MD, Pittsburgh, PA; Robert L. Ferris, MD PhD, Pittsburgh, PA; Sandeep Samant, MD, Chicago, IL
- I 52. **Cervical Thoracic Duct Cyst: A Case Report and Discussion of Diagnosis and Management**  
Anna Frants, MD, New York, NY; Sonya Marcus, MD, New York, NY; Elcin Zan, MD, New York, NY; Adam S. Jacobson, MD, New York, NY
- I 53. **Transplanted Human Bone Marrow Derived Mesenchymal Stem Cells Do not Engraft in the Injured Rat Tongue**  
Alexander N. Goel, BA, Los Angeles, CA; Jonathan W. Frederick, MD, Los Angeles, CA;  
Andrew M. Vahabzadeh-Hagh, MD, Los Angeles, CA; Jennifer L. Long, MD PhD, Los Angeles, CA
- I 54. **Impact of Retropharyngeal Lymph Node Involvement in Squamous Cell Carcinoma of the Soft Palate and Uvula**  
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Christine M. Kim, MD, Los Angeles, CA; Karam W. Badran, MD, Los Angeles, CA;  
Edward C. Kuan, MD MBA, Philadelphia, PA; Maie A. St. John, MD PhD, Los Angeles, CA
- I 55. **Compressed Management Pathway for Thyroid and Parathyroid Surgery**  
Norman H. Heindel, BS, Augusta, GA; Seth T. Kay, MD, Winfield, IL; David J. Terris, MD, Augusta, GA
- I 56. **Utilizing Consumer Photoplethysmography Technology to Augment the Modified Allen's Test in Measuring Collateral Circulation to the Hand: A Proof of Concept**  
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- I 57. **Perioperative Outcomes Associated with Bipolar versus Cold Knife Dissection in Parotid Gland Surgery**  
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- I 58. **Investigating the Role of Adjuvant Chemotherapy during Primary Treatment of Esthesioneuroblastoma**  
John P. Marinelli, BS, Rochester, MN; Kevin C. Miller, BS, Rochester, MN; Jamie J. Van Gompel, MD, Rochester, MN; Robert L. Foote, MD, Rochester, MN; Katharine A. Price, MD, Rochester, MN; Ashish V. Chintakuntlawar, MBBS PhD, Rochester, MN

- I 59. **Factors Affecting Readmission Rate Following Major Salivary Gland Surgery**  
Suresh Mohan, MD, Boston, MA; Neil Bhattacharyya, MD FACS, Boston, MA
- I 60. **39 Years of Trends in Oral Cavity Cancer in New York State**  
William T. Reed, BS, Syracuse, NY; Susannah C. Orzell, MD MPH, Syracuse, NY;  
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- I 61. **Esophageal Adenocarcinoma Presenting as a Metastatic Nasal Mass**  
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- I 62. **Sublingual Epidermoid Cyst Mimicking a Plunging Ranula: Case Report and Literature Review**  
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- I 63. **Impact of Abnormal Coagulation Profile on Postoperative Complications after Major Head and Neck Surgeries**  
Joseph S. Weisberger, MS, Newark, NJ; Greg L. Barinsky, PharmD, Newark, NJ;  
Marcus L. Elias, BS, Newark, NJ; Jean A. Eloy, MD, Newark, NJ; Soly Baredes, MD, Newark, NJ;  
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- I 64. **Direct Infiltration of Papillary Thyroid Carcinoma to the Trachea: A Case Report and Systematic Review**  
Kevin Wong, BA, Boston, MA; Leah Sax, BA, Boston, MA; Gregory A. Grillone, MD, Boston, MA
- I 65. **Management of a Rare Complete Fourth Branchial Cleft Fistula Presenting as a Discharging Pharyngocutaneous Fistula in an Adult: A Case Report and Review of the Literature**  
Paul Zhang, MD MPH, Los Angeles, CA; Ksenia A. Aaron, MD, Los Angeles, CA;  
Ronica R. Patel, MD, Los Angeles, CA; Niels Kokot, MD, Los Angeles, CA

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- I 66. **Iatrogenic Pneumothorax during Hypoglossal Nerve Stimulator Implantation**  
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- I 67. **Hypoglossal Nerve Stimulation for Obstructive Sleep Apnea in the Veteran Population**  
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- I 68. **Changes in Proton Pump Inhibitor Prescribing Patterns in 2014-2016: A Single Institution Study**  
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- I 69. **Is Drug Induced Sleep Endoscopy Safe?**  
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- I 70. **The Relationship between Obstructive Sleep Apnea and Posturography**  
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- I 71. **Perioperative Considerations for Airway Evaluation and Management in the Setting of Tracheal Diverticulosis**  
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- I 72. **Ossification of the Cartilage Island after Type I Thyroplasty**  
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CCC-SLP, Rochester, MN; Dale C. Ekbohm, MD, Rochester, MN
- I 73. **The Need for Preoperative Echocardiogram in Pediatric Population with Severe Obstructive Sleep Apnea prior to Adenotonsillectomy**  
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- I 74. **Prevalence of Obstructive Sleep Apnea and Associated Symptoms by Validated Questionnaires in a Tertiary Care Cardiology Clinic**  
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- I 75. **Hyoid Bone Movement along Multiple Planes as a Result of Hyomandibular Suspension to Treat Obstructive Sleep Apnea**  
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- I 76. **Combined Anterograde Retrograde Pharyngoesophageal Dilation Followed by Serial Self-Dilation in Patients with an Intact Larynx**  
Lindsay S. Reder, MD, Los Angeles, CA; Brenda C. Villegas, CCC-SLP, Los Angeles, CA
- I 77. **The Indication of a Concomitant Use of Veno-Venous Extracorporeal Membrane Oxygenation (V-V ECMO) in Tracheostomy**  
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- I 78. **Vocal Cord Paralysis as a Relapse Symptom of Otitis Media with ANCA Associated Vasculitis (OMAAV)**  
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- I 79. **Optimizing Testing for BPPV: (The Loaded Dix-Hallpike)**  
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- I 80. **Recurrent Spontaneous Pneumocephalus Caused by Middle Fossa Encephaloceles**  
Amy P. Bansal, MD, Newark, NJ; James K. Liu, MD, Newark, NJ; Yu-Lan M. Ying, MD, Newark, NJ
- I 81. **Utility of Annotated Surgical Case Videos for Resident Education: A Pilot Study**  
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- I 82. **Individual Minimally Clinically Important Difference for Patients with Vestibular Schwannoma: A Step beyond Statistical Significance**  
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- I 83. **Malignant Transformation of Paraganglioma Following Radiation: A Case Report**  
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- I 84. **Supporting Cell Survival after Cochlear Implant Surgery**  
Alvin T. Detorres, MD, Washington, DC; Rafal T. Olszewski, PhD, Bethesda, MD; Ivan A. Lopez, PhD, Los Angeles, CA; Akira Ishiyama, MD, Los Angeles, CA; Fred H. Linthicum, MD, Los Angeles, CA; Michael Hoa, MD, Bethesda, MD
- I 85. **Durability of Hearing Preservation Following Microsurgical Resection of Vestibular Schwannoma**  
Eric M. Dowling, MD, Rochester, MN; Neil S. Patel, MD, Rochester, MN; Michael J. Link, MD, Rochester, MN; Matthew L. Carlson, MD, Rochester, MN
- I 86. **Comparison of Microscopic and Endoscopic Approaches for Auditory Brainstem Implantation: A Cadaveric Study**  
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- I 87. **Tragal Cartilage Graft Anterior Perforation Tympanoplasty: Surgical Technique and Outcomes**  
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- I 88. **Auditory Rehabilitation for the Otolaryngologist: A Systematic Review**  
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- I 89. **Patient Oriented Assessment of Online Bone Anchored Hearing Aid Resources**  
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- I 90. **Using Virtual Reality to Help Depict Round Window Exposure for Cochlear Implantation**  
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- I 91. **Audiometric Findings in Children with Unilateral Enlarged Vestibular Aqueduct**  
Robert J. Macielak, BS, Columbus, OH; Jameson K. Mattingly, MD, Columbus, OH; Ursula M. Findlen, PhD, Columbus, OH; Oliver F. Adunka, MD, Columbus, OH
- I 92. **Clinician Adherence to the Clinical Practice Guideline: Acute Otitis Externa**  
Nicholas R. Mildenhall, MD, Durham, NC; Adam L. Honeybrook, MD, Durham, NC; David M. Kaylie, MD, Durham, NC

- I 93. **Characterizing Mid-Frequency Sensorineural Hearing Loss**  
Omid Moshtaghi, MS, Irvine, CA; Afsheen Moshtaghi, BS, Irvine, CA; Sammy Sahyouni, , Irvine, CA; Hossein Mahboubi, MD, Irvine, CA; Harrison W. Lin, MD, Irvine, CA; Hamid R. Djalilian, MD, Irvine, CA
- I 94. **Retinal Detachment Secondary to Otitic Hydrocephalus Associated with Acute Otitis Media in a Child: A Case Report**  
Koshi Otsuki, MD PhD, Fukushima, Japan; Mitsuyoshi Imaizmi, MD PhD, Fukushima, Japan; Shigeyuki Murono, MD PhD, Fukushima, Japan
- I 95. **Effect of Cochlear Implant Candidacy Delay on Speech Perception Outcomes in Children with Hearing Loss**  
Elizabeth L. Perkins, MD, Chapel Hill, NC; Lisa R. Park, AuD, Chapel Hill, NC; Kevin D. Brown, MD PhD, Chapel Hill, NC
- I 96. **Recurrent Apocrine Hidrocystoma of the External Auditory Canal**  
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- I 97. **Clinical Outcomes in Patients with Eustachian Tube Dysfunction**  
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Mary J. Xu, MD, San Francisco, CA; Josephine A. Czechowicz, MD, San Francisco, CA

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Steven A. Zuniga, MD, Philadelphia, PA; Sean P. Lerner, DO, Pittsburgh, PA; David M. Souza, DO, Pittsburgh, PA; Todd A. Hillman, MD, Pittsburgh, PA; Douglas A. Chen, MD, Pittsburgh, PA

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Katharina M. Mitchell, BS, Morgantown, WV; Bridget A. Radmer, BS, Morgantown, WV;  
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Vinita B. Pai, PharmD, Columbus, OH