

2019 TRIOLOGICAL SOCIETY COMBINED SECTIONS MEETING
HOTEL DEL CORONADO, CORONADO, CALIFORNIA
JANUARY 24 - 26, 2019

CONTINUING MEDICAL EDUCATION CREDIT INFORMATION

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THURSDAY, JANUARY 24, 2019

7:30 **Attendee Breakfast with Exhibitors - Ballroom**

GENERAL SESSION - CROWN ROOM

8:00 **Welcome on behalf of the Section Vice Presidents**
Peak Woo, MD FACS, New York, NY

8:05 **Eastern Section Guest Introductions by Peak Woo, MD FACS, New York, NY, Eastern Section Vice President**
Citation Awardees: Kenneth W. Altman, MD PhD FACS, Houston, TX
Ellen M. Friedman, MD FACS, Houston, TX
Robert M. Kellman, MD FACS, Syracuse, NY
Guest of Honor: Eric M. Genden, MD FACS, New York, NY
The Future of the Academic Department in a Health-System World

8:20 **Southern Section Guest Introductions by Brent A. Senior, MD FACS, Chapel Hill, NC, Southern Section Vice President**
Citation Awardees: Byron J. Bailey, MD, Conroe, TX
Marvin P. Fried, MD FACS, Bronx, NY
David W. Kennedy, MD FACS, Philadelphia, PA
Guest of Honor: Harold C. Pillsbury, MD FACS, Chapel Hill, NC
Impediments to Utilization of New Technology in Patient Care

- 8:35 Western Section Guest Introductions by Brian J.F. Wong, MD PhD FACS, Irvine, CA, Western Section Vice President**
Citation Awardees: William B. Armstrong, MD FACS, Irvine, CA
Roger L. Crumley, MD MBA FACS, Irvine, CA
Victor Passy, MD, Irvine, CA
Guest of Honor: Richard E. Davis, MD FACS, Miramar, FL
To be presented in Friday Plastic Surgery session
How Tension Might Prolong Your Longevity - Advances in Nasal Surgery
- 8:50 Middle Section Guest Introductions by Pierre Lavertu, MD FACS, Cleveland, OH, Middle Section Vice President**
Citation Awardees: Michael S. Benninger, MD FACS, Cleveland, OH
Dennis H. Kraus, MD FACS, New York, NY
Rod Rezaee, MD, Cleveland, OH
Guest of Honor: David Adelstein, MD, Cleveland, OH
Treatment De-escalation: A Note of Caution
- PRESENTATION OF MIDDLE SECTION GEORGE ADAMS, MD YOUNG FACULTY AWARD to Jose P. Zevallos, MD MPH FACS, St. Louis, MO**
Introduction by Pierre Lavertu, MD FACS, Middle Section Vice President
- 9:10 PRESIDENTIAL ADDRESS - Sigsbee W. Duck, MD FACS, Rock Springs, WY**
The Triological Society-An Organization for Academic Practitioners
Introduction by Brian J.F. Wong, MD PhD FACS, Western Section Vice President
- 9:25 PRESENTATION OF SEVENTH ANNUAL PATRICK E. BROOKHOUSER, MD AWARD OF EXCELLENCE to Stanley M. Shapshay, MD FACS, Albany, NY**
Introduction by Sigsbee W. Duck, MD FACS, President
- 9:30 - 10:00 Break with Exhibitors/View Posters - Ballroom**
- 10:05 - 11:00 TRIOLOGICAL SOCIETY BEST PRACTICES (TRIO BP)**
Moderator: Andrew N. Goldberg, MD MSCE FACS, San Francisco, CA
Panelists: **Is Computed Tomography Necessary before Septoplasty?**
Ashutosh Kacker, MD FACS, New York, NY
What Is the Utility of Fine Needle Aspiration in Parotid Gland Neoplasm?
Samir S. Khariwala, MD, Minneapolis, MN
Does Concomitant Mastoidectomy Improve Outcomes for Patients Undergoing Repair of Tympanic Membrane Perforations?
Robert F. Labadie, MD PhD, Nashville, TN
When Should You Perform Injection Medialization for Pediatric Unilateral Vocal Fold Immobility?
Sukgi S. Choi, MD FACS, Boston, MA
Does Perioperative Skin Preparation Reduce Surgical Site Infection?
Margeaux R. Corby, MD, Charlottesville, VA
- 11:00 Q&A**

11:05 - 11:55 **HOW I DO IT: NOT WHEN AND WHY, JUST HOW VIDEO SESSION**
Moderator: Katherine A. Kendall, MD FACS, Salt Lake City, UT
Panelists: **Otology: Cartilage Graft Tympanoplasty**
Roland D. Eavey, MD FACS, Nashville, TN
 Sleep: Hypoglossal Nerve Stimulator
Erica R. Thaler, MD FACS, Philadelphia, PA
 Laryngology: Office Based Injection Laryngoplasty
Lucian Sulica, MD, New York, NY
 Peds: Endoscopic Type 3 Laryngeal Cleft Repair Techniques
Vikash Modi, MD, New York, NY

11:55 **Q&A**

12:00 - 1:00 **Lunch/Visit Exhibits/View Posters - Ballroom**

1:10 - 3:05 CONCURRENT SESSION 1A
HEAD AND NECK - CROWN ROOM

Moderator: Randal A. Otto, MD FACS, San Antonio, TX

- 1:10** **2018 TRIOLOGICAL SOCIETY THESIS - WITH DISTINCTION AWARD**
Gene Expression Subtype Analysis of Laryngeal and Oral Cavity Squamous Cell Carcinoma Reveals Novel Molecular Markers of Nodal Metastasis and Survival
Jose Pedro Zevallos, MD MPH FACS, St. Louis, MO
- 1:17** **Head and Neck Mucinous Adenocarcinoma: A Population Perspective**
Samer T. Elsamna, BA, Newark, NJ; Neel R. Sangal, BA, Newark, NJ;
Ariel O. Omiunu, BS, Newark, NJ; Richard Chan Woo Park, MD, Newark, NJ
- 1:24** **Paul H. Holinger, MD Resident Research Award - Middle Section**
Extranodal Extension Is a Strong Prognosticator in HPV Positive Oropharyngeal Squamous Cell Carcinoma
Eric L. Bauer, MD, St. Louis, MO; Angela L. Mazul, PhD MPH, St. Louis, MO;
Douglas R. Adkins, MD, St. Louis, MO; Wade L. Thorstad, MD, St. Louis, MO;
Jose P. Zevallos, MD MPH FACS, St. Louis, MO
- 1:31** **Cranial Nerve Outcomes Following Parotid Basin Recurrences and Salvage Parotidectomy for Cutaneous Head and Neck (H&N) Melanoma: Importance of Early Regional Control in the Parotid Basin**
John E. Hanks, MD, Ann Arbor, MI; Kevin J. Kovatch, MD, Ann Arbor, MI;
Syed A. Ali, MD, Ann Arbor, MI; Josh D. Smith, BA, Ann Arbor, MI;
Scott A. McLean, MD PhD, Ann Arbor, MI; Carol R. Bradford, MD, Ann Arbor, MI
- 1:38** **Impact of Perioperative Pain Management Protocol on Opioid Prescribing Patterns**
Max M. Scher, BS, Cleveland, OH; Kate L. Clancy, MD, Cleveland, OH (Presenter);
Jason E. Thuener, MD, Cleveland, OH; Emily N. Ahadizadeh, MD, Cleveland, OH;
Chad A. Zender, MD, Cleveland, OH
- 1:45** **Observed to Expected Ratio for Adherence to Treatment Guidelines as a Quality of Care Indicator for Laryngeal Cancer**
Warren C. Swegal, MD, Baltimore, MD; Robert J. Herbert, BS, Baltimore, MD;
David W. Eisele, MD, Baltimore, MD; Jenny Chang, Irvine, CA;
Robert E. Bristow, MD MBA FACS, Irvine, CA; Christine G. Gourin, MD MPH,
Baltimore, MD

1:52 **Tumor Infiltrating Lymphocyte Density Improves the Prognostic Resolution of AJCC 8th Edition Staging for HPV Positive Oropharyngeal Carcinoma**
Farhoud Faraji, MD PhD, San Diego, CA; Nicholas Fung, BS, Baltimore, MD;
Christine C. Gourin, MD, Baltimore, MD; David W. Eisele, MD, Baltimore, MD;
Lisa M. Rooper, MD, Baltimore, MD; Carole Fakhry, MD MPH, Baltimore, MD

1:59 **Q&A**

2:10 - 3:00 **THYROID CANCER - WHERE ARE WE NOW?**

Moderator: Michael C. Singer, MD, Detroit, MI

Panelists: **Molecular Markers**

Robert L. Witt, MD FACS, Newark, DE

Neuromonitoring

Gregory W. Randolph, MD FACS, Boston, MA

Hemi vs Total Thyroidectomy for T2 Well Differentiated Thyroid Cancers

Eric M. Genden, MD FACS, New York, NY

Active Surveillance for Thyroid Carcinoma

Marilene B. Wang, MD FACS, Los Angeles, CA

3:00 **Q&A**

3:05 - 3:30 **Break with Exhibitors/View Posters - Ballroom**

1:10 - 3:10 CONCURRENT SESSION 1B
OTOLOGY/NEUROTOLOGY - CAROUSEL ROOM

1:10 - 2:05 **CONTROVERSIES IN OTOLOGY/NEUROTOLOGY**

Moderator: M. Jennifer Derebery, MD FACS, Los Angeles, CA

Panelists: **Decision Making in Meniere's Disease: Medical vs. Surgical**

Clough Shelton, MD FACS, Salt Lake City, UT

Autoimmune Inner Ear Disease: Beyond Steroids

Michael Hoa, MD, Washington, DC

To Hybrid or Not to Hybrid in Cochlear Implantation: Is More Better?

Joni K. Doherty, MD PhD FACS, Seal Beach, CA

Management of Tinnitus: Fact or Fiction?

Carol A. Bauer, MD FACS, Springfield, IL

Eustachian Tube Balloon Dilatation: Help vs Hype

Jennifer L. Maw, MD, San Jose, CA

2:05 **Q&A**

Moderator: Arun K. Gadre, MD MS FACS, Prospect, KY

2:10 **Combining Stereoscopic Video with Modular 3D Anatomic Models for Lateral Skull Base Training**

Samuel R. Barber, MD, Tucson, AZ; Saurabh Jain, MS, Tucson, AZ; Young-Jun Son, PhD, Tucson, AZ; Shawn M. Stevens, MD, Phoenix, AZ

2:17 **2018 TRIOLOGICAL SOCIETY THESIS - WITH DISTINCTION AWARD**
Evaluation and Treatment of Pulsatile Tinnitus Associated with Sigmoid Sinus Wall Anomalies

David J. Eisenman, MD, Baltimore, MD

- 2:24** **Imaging Findings in Pediatric Single Sided Deafness and Asymmetric Hearing Loss**
 Noga Lipschitz, MD, Cincinnati, OH; Gavriel D. Kohlberg, MD, Cincinnati, OH;
 Nicholas Roetting, BS, Cincinnati, OH; Michael Scott, AuD, Cincinnati, OH;
 John H. Greinwald, MD, Cincinnati, OH
- 2:31** **Middle Cranial Fossa Approach for Management of Spontaneous Cerebrospinal Fluid Leaks: An Analysis of Audiometric Outcomes**
 Mohamedkazim M. Alwani, MD, Indianapolis, IN; Elhaam H. Bandali, MS, Indianapolis, IN; Lauren M. Van Buren, BS, Indianapolis, IN; Charles W. Yates, MD, Indianapolis, IN; Rick F. Nelson, MD PhD, Indianapolis, IN
- 2:38** **Lawrence R. Boies, MD Resident Research Award - Middle Section Predictors of Hearing in CHARGE Syndrome: Impact of Cochlear Nerve Deficiency and Cochlear Aperture Patency**
 Brittany A. Leader, MD, Cincinnati, OH; Kareem O. Tawfik, MD, San Diego, CA;
 Zoe A. Walters, BA, Cincinnati, OH; Daniel I. Choo, MD, Cincinnati, OH
- 2:45** **Middle Fossa Microsurgical Facial Nerve Decompression in Patients with Idiopathic Recurrent Facial Nerve Paralysis: Outcomes of Surgical Management in a Rare Clinical Entity**
 Christopher Blake Sullivan, MD, Iowa City, IA; Vivan L. Zhu, BS, Iowa City, IA;
 Daniel Q. Sun, MD, Baltimore, MD; Marlan R. Hansen, MD, Iowa City, IA;
 Bruce J. Gantz, MD, Iowa City, IA
- 2:52** **Ototoxicity Study of Topical Middle Ear Proflavine Application**
 Enrique R. Perez, MD MBA, Miami, FL; Cima P. Maliakal, BS, Miami, FL; Esperanza Bas, PhD, Miami, FL; Simon I. Angeli, MD, Miami, FL
- 2:59** **Q&A**
- 3:05 - 3:30** **Break with Exhibitors/View Posters - Ballroom**

3:30 - 5:15 CONCURRENT SESSION 2A

RHINOLOGY/ALLERGY - CROWN ROOM

Moderator: Ralph B. Metson, MD FACS, Boston, MA

- 3:30** **Utilization and Reimbursements for Sinus Procedures: A Five Year Analysis**
 Lindsey K. Koester, MD, Pittsburgh, PA; Parul Goyal, MD MBA, Syracuse, NY
- 3:37** **Contemporary Analysis of Otolaryngic Allergy**
 Willard C. Harrill, MD FACS, Hickory, NC; Gavin Setzen, MD FACS, Albany, NY;
 Harold C. Pillsbury, MD FACS, Chapel Hill, NC
- 3:44** **Clinical and Demographic Traits Characterizing a High Frequency of Acute Exacerbations of Chronic Rhinosinusitis Disease Phenotype**
 Katie M. Phillips, MD, Boston, MA; Lloyd P. Hoehle, BA BS, Boston, MA;
 David S. Caradonna, MD DMD, Boston, MA; Stacey T. Gray, MD, Boston, MA;
 Ahmad R. Sedaghat, MD PhD, Boston, MA
- 3:51** **Richard J. Bellucci, MD Resident Research Award - Eastern Section Opioid Prescription Patterns and Use among Patients Undergoing Sinus Surgery**
 Rosh K.V. Sethi, MD MPH, Boston, MA; Ashley L. Miller, MD, Boston, MA;
 Ryan A. Bartholomew, BS, Boston, MA; Regan Bergmark, MD, Boston, MA;
 Ahmad R. Sedaghat, MD PhD, Boston, MA; Stacey T. Gray, MD, Boston, MA

- 3:58 Long Term Outcomes after Endoscopic Dacryocystorhinostomy without Mucosal Flap Preservation**
Todd T. Kingdom, MD, Aurora, CO; Henry P. Barham, MD, Baton Rouge, LA; Vikram D. Durairaj, MD, Austin, TX
- 4:05 Symptom Profile of Chronic Rhinosinusitis versus Obstructive Sleep Apnea**
Keven Sy Ji, BA, Durham, NC; Lyndon Chan, MD, Durham, NC; Ralph Abi Hachem, MD, Durham, NC; David W.J. Jang, MD, Durham, NC
- 4:12 Medical Liability in Rhinology**
Suparna N. Shah, MD, Galveston, TX; Kareem B Haroun, MD, Galveston, TX; Mohamad R. Chaaban, MD, Galveston, TX
- 4:19 Q&A**
- 4:25 - 5:10 IS SINUS SURGERY GOING AWAY?**
Moderator: Todd T. Kingdom, MD FACS, Denver, CO
Panelists: **The Role of Biologics and Their Impact on the Need for Surgery**
Robert C. Kern, MD FACS, Chicago, IL
The Expanding Application of Office Based Procedures
Sandra Y. Lin, MD, Baltimore, MD
Surgical Management of Fungal Rhinosinusitis
Stilianos E. Kountakis, MD PhD FACS, Augusta, GA
Changing Selection Criteria for Surgery and Impact on Utilization
Adam M. Zanation, MD, Chapel Hill, NC
- 5:10 Q&A**
- 5:15 ADJOURN SESSION**
- 5:30 - 7:00 VICE PRESIDENT'S WELCOME RECEPTION (for all attendees) - Sun Deck**

3:30 - 5:20 CONCURRENT SESSION 2B

LARYNGOLOGY/BRONCHOSOPHAGOLOGY - CAROUSEL ROOM

- 3:30 - 4:15 REFLUX, IRRITABLE LARYNX, AND COUGH**
Moderator: Kenneth W. Altman, MD PhD FACS, Houston, TX
Panelists: **How Often and under What Circumstances Does Reflux Cause or Contribute to Laryngeal Irritability or Cough?**
Kenneth W. Altman, MD PhD FACS, Houston, TX
Defining Reflux (GER vs LPR), How Is It Diagnosed/Quantified, and What Are Our Limitations as Otolaryngologists Relative to the Cough Guidelines?
Jonathan M. Bock, MD, Milwaukee, WI
Is the Pathophysiology Different in Children?
Romaine F. Johnson, MD MPH, Dallas, TX
What Are the Manifestations and Mechanisms of Laryngeal Irritability to Include PVFM, Episodic Reflux Laryngospasm, Chronic Irritable Larynx, and Chronic Cough?
Natasha Mirza, MD FACS, Philadelphia, PA
- 4:15 Q&A**

Moderator: Robert M. Kellman, MD FACS, Syracuse, NY

- 4:20** **2018 TRIOLOGICAL SOCIETY THESIS - HONORABLE MENTION FOR CLINICAL SCIENCE RESEARCH**
Oropharyngeal Symptoms Following Suspension Laryngoscopy: Procedural Factors and the Impact of Submucosal Perfusion Using Capillaroscopy
Paul C. Bryson, MD FACS, Cleveland, OH
- 4:27** **Topical Anesthetic Techniques in Office Based Laryngeal Surgery: A Comparison of Patient Preferences**
Matthew R. Naunheim, MD MBA, New York, NY; Peak Woo, MD, New York, NY (Presenter)
- 4:34** **Office Based Corticosteroid Injections as Adjuvant Therapy for Subglottic Stenosis**
Debbie R. Pan, BA, Miami, FL; David E. Rosow, MD, Miami, FL
- 4:41** **What a Pain in the Neck - Anterior Cervical Pain Syndrome Risk Factors, Variations in Hyolaryngeal Anatomy and Treatments**
Karuna Dewan, MD, Palo Alto, CA; Christine Yang, Palo Alto, CA; Mrudula Penta, MD, Palo Alto, CA
- 4:48** **Vice President's Resident Research Award - Western Section**
Long Term Alterations within Cortical Basal Ganglia Cerebellar Networks in Unilateral Vocal Fold Paralysis
Philip L. Perez, MD, San Francisco, CA; Kristine L. Cueva, BS, San Francisco, CA; Margaret L. Naunheim, MD, Seattle, WA; Leighton B. Hinkley, PhD, San Francisco, CA; Srikantan S. Nagarajan, PhD, San Francisco, CA; Steven W. Cheung, MD, San Francisco, CA
- 4:55** **Correlation of Salivary and Nasal Lavage Pepsin with MII-pH Testing**
Miles Jonathan Klimara, BA, Milwaukee, WI; Nikki Johnston, PhD, Milwaukee, WI; Tina L. Samuels, MS, Milwaukee, WI; Joel H. Blumin, MD, Milwaukee, WI; Jonathan M. Bock, MD, Milwaukee, WI
- 5:02** **Local Pepsin and Proton Pump Synthesis in Barrett's Esophagus May Promote Progression to Esophageal Adenocarcinoma**
Tina L. Samuels, MS, Milwaukee, WI; Kenneth W. Altman, MD PhD, Houston, TX; Jon C. Gould, MD, Milwaukee, WI; Tammy L. Kindel, MD PhD, Milwaukee, WI; Alexander C. MacKinnon, MD PhD, Milwaukee, WI; Nikki S. Johnston, PhD, Milwaukee, WI
- 5:09** **Q&A**
- 5:15** **ADJOURN SESSION**
- 5:30 - 7:00** **VICE PRESIDENT'S WELCOME RECEPTION (for all attendees) - Sun Deck**

7:00 - 7:50 **Business Meetings (Fellows Only)**
Southern Section - Continental
Western Section - Windsor Complex

7:30 **Attendee Breakfast with Exhibitors - Ballroom**

8:00 - 10:00 CONCURRENT SESSION 3A
FACIAL PLASTIC/RECONSTRUCTIVE SURGERY - CROWN ROOM

8:00 **Announcements - Peak Woo, MD FACS, Eastern Section Vice President**

Moderator: Lamont R.D. Jones, MD MBA, Detroit, MI

8:05 **Preoperative Characteristics of Over 1200 FSRP Patients**
Natalie S. Justicz, MD, Boston, MA; Shekhar K. Gadkaree, MD, Boston, MA;
Robin W. Lindsay, MD, Boston, MA

8:12 **Keloid Link to Clinical Outcomes in Breast Cancer: A Potential Link between Ethnic Variations in Immune Response and Tumor Behavior**
Melissa B. Davis, PhD, Detroit, MI; Edward M. Walton, BS, Detroit, MI (Presenter);
Brittany D. Jenkins, PhD, Athens, GA; Vanessa P. Chu, BA, Detroit, MI;
Haythem Y. Ali, MD, Detroit, MI; Christine M. Nesland-Dudas, PhD, Detroit, MI;
Lamont R. Jones, MD MBA, Detroit, MI

8:19 **Pediatric Midface Fractures: Outcomes and Complications**
Richard Kao, MD, Indianapolis, IN; Vincent J. Campiti, BS, Indianapolis, IN;
Cyrus C. Rabbani, MD, Indianapolis, IN; Jon Y. Ting, MD, Indianapolis, IN;
Michael W. Sim, MD, Indianapolis, IN; Taha Z. Shipchandler, MD, Indianapolis, IN

8:26 **Incidence of Inadequate Perforators and Salvage Options for Anterior Lateral Thigh (ALT) Flaps: A Multi-Institutional Retrospective Review of over 1000 Flaps**
Haley E. Calcagno, MS, Portland, OR; William W. Thomas, MD, Portland, OR;
Brett A. Miles, DDS MD, New York, NY; Steven B. Cannady, MD, Philadelphia, PA;
Matthew M. Hanasono, MD, Houston, TX; Mark K. Wax, MD, Portland, Oregon

8:33 **The Spectrum of Facial Palsy: The Facial Palsy Photo and Video Standard Set**
Jacqueline J. Greene, MD, Boston, MA; Joana Tavares, MD, Boston, MA; Diego Guarin, PhD, Boston, MA; Olivia Quatela, BA, Boston, MA; Nate Jowett, MD, Boston, MA; Tessa Hadlock, MD, Boston, MA

8:40 **Postoperative Pain Is Mild and Opioid Need Is Minimal after Rhinoplasty**
Anthony P. Sclafani, MD, New York, NY

8:47 **Radial Forearm Reconstruction of Oral Cavity and Oropharyngeal Defects without Tracheotomy**
Tara J. Wu, MD, Los Angeles, CA; Karam W. Badran, MD, Los Angeles, CA; Satvir Saggi, BS, Los Angeles, CA; Albert Y. Han, MD PhD, Los Angeles, CA;
Jordan P. Sand, MD, Spokane, WA; Keith E. Blackwell, MD, Los Angeles, CA

8:54 "July Effect" in Otolaryngology Microvascular Reconstruction: Analysis of the American College of Surgeons National Surgical Quality Improvement Program Database
Amishav Y. Bresler, MD, Newark, NJ; Richard Bavier, BA, Newark, NJ;
Richard Chan Woo Park, MD, Newark, NJ

9:01 Q&A

9:05 WESTERN SECTION GUEST OF HONOR INVITED PRESENTATION
How Tension Might Prolong Your Longevity - Advances in Nasal Surgery
Richard E. Davis, MD FACS, Miramar, FL

9:30 - 10:00 INNOVATION AND TRENDS IN AESTHETIC RHINOPLASTY
Moderator: Brian J.F. Wong, MD PhD FACS, Irvine, CA
Panelists: Deborah Watson, MD FACS, San Diego, CA
Stephen S. Park, MD, Charlottesville, VA
J. Madison Clark II, MD FACS, Chapel Hill, NC
Richard E. Davis, MD, Miramar, FL

10:00 Q&A

10:05 - 10:30 *Break with Exhibitors/View Posters - Ballroom*

8:00 - 10:00 CONCURRENT SESSION 3B
GENERAL/SLEEP MEDICINE - GRAND HALL

8:00 Announcements - Pierre Lavertu, MD FACS, Middle Section Vice President

8:05 - 8:55 COMPLEX SLEEP PROCEDURES IN CHILDREN
Moderator: Stacey L. Ishman, MD MPH, Cincinnati, OH
Panelists: Richard J. Schmidt, MD FACS, Wilmington, DE
Andrew R. Scott, MD FACS, Boston, MA

8:55 Q&A

Moderator: Robert H. Deeb, MD, Detroit, MI

9:00 The Conception, Planning and Execution of a Successful Medical Service Trip to Developing Countries
Larry A. Hoover, MD, Mission Hills, KS; Sreeya S. Yalamanchali, MD, Kansas City, MO; Ann B. Robinson, MD, Leawood, KS; Joseph L. Edmonds, MD, Houston, TX; Travis T. Tollefson, MD MPH, Sacramento, CA

9:07 The Utility of Smartphone Applications and Fitbit as a Screening Tool for the Diagnosis of Obstructive Sleep Apnea
Sunny S. Kim, BA, Washington, DC; Daniel Chung, MD, Washington, DC;
Richard L. Amdur, PhD, Washington, DC; Philip Zapanta, MD, Washington, DC

9:14 Statin Use Protective for Chronic Sinusitis in U.S. Outpatient Population
James H. Wilson, MChem, Charlottesville, VA; Spencer C. Payne, MD, Charlottesville, VA; Cyrelle-Elize R. Fermin, BS, Charlottesville, VA;
Ian T. Churnin, MD, Charlottesville, VA; Jamiluddin Qazi, BS, Charlottesville, VA;
Jose L. Mattos, MD MPH, Charlottesville, VA

9:21 Quality of Narrative Operative Reports in Endoscopic Sinus Surgery
Shannon C. Wheeler, BS, Phoenix, AZ; Amar Miglani, MD, Phoenix, AZ;
Nicholas L. Deep, MD, Phoenix, AZ; Devyani Lal, MD, Phoenix, AZ

- 9:28** **Can Movie Trailers Make You Deaf?**
Sujana S. Chandrasekhar, MD, New York, NY; Sajan N. Ramanathan, Glen Ridge, NJ
- 9:35** **A SIMPL Tool to Track Operative Autonomy in Otolaryngology Training**
Jenny X. Chen, MD, Boston, MA; Elliott D. Kozin, MD, Boston, MA;
Jordan D. Bohnen, MD, Boston, MA; Brian C. George, MD, Ann Arbor, MI;
Kevin S. Emerick, MD, Boston, MA; Stacey T. Gray, MD, Boston, MA
- 9:42** **William W. Montgomery, MD Resident Research Award - Eastern Section Teaching Tracheotomy Management: The Creation of an Active Learning Workshop for Non-Otolaryngology Residents**
Mingyang L. Gray, MD MPH, New York, NY; Scott A. Roof, MD, New York, NY;
Mark S. Courey, MD, New York, NY
- 9:49** **Implication of Fusobacterium Necrophorum and Streptococcal Species in Recurrent Peritonsillar Abscesses**
S. Ahmed A. Ali, MD, Ann Arbor, MI; Kevin J. Kovatch, MD, Ann Arbor, MI;
Josh S. Smith, BS, Ann Arbor, MI; Paul T. Hoff, MD, Ann Arbor, MI;
Carl M. Truesdale, MD, Ann Arbor, MI; John E. Hanks, MD, Ann Arbor, MI
- 9:56** **Q&A**
- 10:05 - 10:30** **Break with Exhibitors/View Posters - Ballroom**

10:30 - 12:30 CONCURRENT SESSION 4A
GENERAL AND RHINOLOGY/ALLERGY/SINUS - CROWN ROOM

- 10:30 - 11:20** **TOPICALS IN THE MANAGEMENT OF CRS**
Moderator: Stacey T. Gray, MD FACS, Boston, MA
Panelists: **Alternative Topicals**
Subinoy Das, MD FACS, Columbus, OH
 Topical Steroids (and Different Types of Formulations Including Stents)
Peter H. Hwang, MD FACS, Stanford, CA
 Topical Antibiotics and Antifungals
Alexander G. Chiu, MD, Kansas City, KS
- 11:20** **Q&A**

Moderator: Vishad Nabili, MD FACS, Los Angeles, CA
- 11:25** **Impact of Sinus Surgery on Hospital Utilization for Complications of Sinusitis**
Vivek C. Pandrangi, BA, Richmond, VA; Evan R. Reiter, MD FACS, Richmond, VA
- 11:32** **Trend and Predictors of Surgery for Orbital Cellulitis: An Analysis of State Inpatient Database**
Pawina Jiramongkolchai, MD, St. Louis, MO; Dorina Kallgojeri, MD MPH, St. Louis, MO; Kim Jiramongkolchai, MD, Baltimore, MD; Jay F. Piccirillo, MD, St. Louis, MO
- 11:39** **Presentation and Outcomes of Noninvasive Sinusitis in Patients Following Liver and Kidney Transplantation**
Aviv Spillinger, BS, Rochester, MI; Christopher M. Low, MD, Rochester, MN;
Janalee K. Stokken, MD, Rochester, MN; Erin K. O'Brien, MD, Rochester, MN;
Garret W. Choby, MD, Rochester, MN

- 11:46** **Olfactory Outcomes after Endoscopic Skull Base Surgery: A Systematic Review and Meta-Analysis**
Linda X. Yin, MD, Rochester, MN; Christopher M. Low, MD, Rochester, MN; Cassandra L. Puccinelli, MD, Rochester, MN; Erin K. O'Brien, MD, Rochester, MN; Janalee K. Stokken, MD, Rochester, MN; Garret W. Choby, MD, Rochester, MN
- 11:53** **Effects of Essential Oils to Inhibit Biofilm Formation by Gram Positive and Gram Negative Bacteria**
James C. Wang, MD PhD, Cincinnati, OH; Aneesh Bapodra, BS, Lubbock, TX; Jeremy Doan, Lubbock, TX; Joshua C. Demke, MD, Lubbock, TX; Phat Tran, PhD, Lubbock, TX
- 12:00** **Results of Routine Nasolacrimal Sac Histopathology Sampling during Endoscopic Dacryocystorhinostomy (DCR)**
Catherine G. Banks, MBChB, Boston, MA; Zoe H. Fullerton, Boston, MA; Qasim Husain, MD, Boston, MA; George A. Scangas, MD, Boston, MA; Ralph B. Metson, MD, Boston, MA
- 12:07** **Identifying Risk Factors for Recurrence in Sinonasal Inverted Papilloma: High Grade Dysplasia and Frontal Sinus Involvement**
Jake J. Lee, MD, St. Louis, MO; Jordan J. Licata, DO, Philadelphia, PA; Lauren T. Roland, MD, Atlanta, GA; Cristine N. Klatt-Cromwell, MD, St. Louis, MO; Rebecca D. Chernock, MD, St. Louis, MO; John S. Schneider, MD, St. Louis, MO
- 12:14** **National Patterns and Survival Impact of Treatment Delays in Surgically Managed Sinonasal Cancer**
Alexander N. Goel, BA, Los Angeles, CA; Jivianne T. Lee, MD, Los Angeles, CA; Marilene B. Wang, MD, Los Angeles, CA; Jeffrey D. Suh, MD, Los Angeles, CA
- 12:21** **Q&A**
- 12:30** ***ADJOURN - afternoon activities are listed after Concurrent Session 4B***

10:30 - 12:30 CONCURRENT SESSION 4B
LARYNGOLOGY/BRONCHOSOPHAGOLOGY AND
PEDIATRIC OTOLARYNGOLOGY - CAROUSEL ROOM

Moderator: Udayan K. Shah, MD, Wilmington, DE

- 10:30** **2018 TRIOLOGICAL SOCIETY THESIS - HONORABLE MENTION FOR BASIC SCIENCE RESEARCH**
T-Helper 2 Lymphocyte Immunophenotype is Associated with Iatrogenic Laryngotracheal Stenosis
Alexander T. Hillel, MD, Baltimore, MD
- 10:37** **Computational Fluid Dynamics in the Diagnosis and Management of Complete Tracheal Rings**
Eric C. Mason, MD, Columbus, OH; Maria B. Koenigs, MD, Columbus, OH; Kai Zhao, PhD, Columbus, OH; Tendy Chiang, MD, Columbus, OH

- 10:44 Preoperative Communication Enhancement in Pediatric Tracheostomy: What Are We Missing?**
Rachel M. Santiago, MS CCC-SLP, Boston, MA; Reza Rahbar, DMD MD, Boston, MA (Presenter); Michelle Howard, MS CCC-SLP, Boston, MA; Natasha D. Dombrowski, BA, Boston, MA; Karen Watters, MB BCh, Boston, MA; John M. Costello, MA CCC-SLP, Boston, MA
- 10:51 The Natural History of Silent Aspiration Seen on Modified Barium Swallow Studies in the Pediatric Population: A Retrospective Chart Review**
Joseph B. Meleca, MD, Cleveland, OH; Elizabeth O. Shay, BS, Cleveland, OH; Samantha Anne, MD, Cleveland, OH; Brandon Hopkins, MD, Cleveland, OH
- 10:58 HPV RNA in Situ Hybridization as a Diagnostic Aid in Papillomatous Laryngeal Lesions**
Jordan A. Garcia, MD, Baltimore, MD; Lisa M. Rooper, MD, Baltimore, MD; Simon R. Best, MD, Baltimore, MD
- 11:05 James A. Harrill, MD Resident Research Award - Southern Section Tracheostomies among Extremely Preterm Infants in the United States - A Cross-Sectional Analysis**
Cynthia S. Wang, MD, Dallas, TX; Yann-Fuu Kou, MD, Dallas, TX; Gopi B. Shah, MD, Dallas, TX; Ron B. Mitchell, MD, Dallas, TX; Romaine F. Johnson, MD MPH, Dallas, TX
- 11:12 Outcomes of Surgical Treatment of Tracheal Stenosis**
Taylor W. Norton, MS, Memphis, TN; Madhu P. Mamidala, PhD, Memphis, TN; Marion B. Gillespie, MD MSc, Memphis, TN
- 11:19 Effect of Unilateral Cordotomy on Perception of Dysphagia**
Melissa L. Conklin, BS, Aurora, CO; Matthew S. Clary, MD, Aurora, CO; Elizabeth M. Cuadrado, MS, Aurora, CO; Marie E. Jette, PhD, Aurora, CO
- 11:26 Q&A**
- 11:30 - 12:25 COMMON ERRORS IN DIAGNOSIS OF VOICE DISORDERS IN ADULTS AND CHILDREN**
Moderator: C. Gaelyn Garrett, MD MMHC, Nashville, TN
Panelists: Karen B. Zur, MD, Philadelphia, PA
Julina Ongkasuwan, MD, Houston, TX
Jenny Muckala, MA CCC-SLP, Nashville, TN
Paul C. Bryson, MD FACS, Cleveland, OH
- 12:25 Q&A**
- 12:30 ADJOURN SESSIONS**
- AFTERNOON & EVENING - LEISURE OR ACTIVITIES**
- 12:30 GOLF OUTING (pre-registration required) - Coronado Course**
- 12:45 - 1:30 TRIOLOGICAL THESIS SEMINAR (pre-registration required) - Crystal/Continental**
- 12:45 - 2:00 RESIDENT BOWL (pre-registration required) - Crown Room**
- 12:45 - 2:45 PHYSICIAN/SCIENTIST MEETING (by invitation) - Windsor Complex**

2:00 - 6:00

**AMERICAN SOCIETY OF GERIATRIC OTOLARYNGOLOGY SCIENTIFIC
SESSION (registration required with ASGO) - Carousel**

SATURDAY, JANUARY 26, 2019

7:00 - 7:50

**Business Meetings (Fellows Only)
Eastern Section - Continental
Middle Section - Windsor Complex**

7:30

Attendee Breakfast with Exhibitors - Ballroom

7:55 - 9:45 GENERAL SESSION - CROWN ROOM

7:55

**Announcements - Brent A. Senior, MD FACS, Southern Section Vice President
and Brian J.F. Wong, MD PhD FACS, Western Section Vice President**

Introduction of Vice Presidents-Elect by Section Vice Presidents

Gregory A. Grillone, MD FACS - Vice President-Elect, Eastern Section

Fred F. Telischi, MD FACS - Vice President-Elect, Southern Section

Albert L. Merati, MD FACS - Vice President-Elect, Western Section

Alan G. Micco, MD FACS - Vice President-Elect, Middle Section

8:05 - 9:25

**ANOTHER LOOK AT PHYSICIAN WELLNESS: PUT YOUR OWN OXYGEN MASK
ON BEFORE HELPING OTHERS**

Moderator: Carol R. Bradford, MD FACS, Ann Arbor, MI

Panelists: **Creating a Wellness Initiative and Office**

Carol R. Bradford, MD FACS, Ann Arbor, MI

An Institutional Study of Wellness and ACS Wellness Resources

Michael S. Benninger, MD FACS, Cleveland, OH

The ACGME Back to Bedside Initiative

Jenna Devare, MD (Resident), Ann Arbor, MI

Perspectives on Resilience

Brian Nussenbaum, MD FACS, Houston, TX

From Burnout to Wellness: A Professional Imperative

Michael M. Johns III, MD, Los Angeles, CA

9:25

Q&A

9:30 - 10:00

Break with Exhibitors/View Posters - Ballroom

10:00 - 12:00 CONCURRENT SESSION 5A
GENERAL AND HEAD & NECK - CROWN ROOM

- 10:00 - 11:00** **TREATMENT STRATEGIES FOR MALIGNANCIES OF HEAD AND NECK**
Moderator: Maie A. St. John, MD, Los Angeles, CA
Panelists: **Treatment of HPV+ Cancers; What We Have Learned and How to Inform Future Therapy and Trials**
Bruce H. Haughey, MBChB FACS, Celebration, FL
 Opportunities for De-Escalation with Transoral Surgery for Cancer
Michael L. Hinni, MD FACS, Phoenix, AZ
 Case Driven Updates Using AJCC Staging Criteria
Cherie-Ann Nathan, MD FACS, Shreveport, LA
 Update: Young Tongue Cancer
Karen T. Pitman, MD FACS, Baltimore, MD
 Reconstructive Strategies for Cancer Patients - Value Based Utilization of Technology
Rod Rezaee, MD, Cleveland, OH
- 11:00** **Q&A**

 Moderator: Chad A. Zender, MD FACS, Cleveland, OH
- 11:05** **Prediction of Swallowing Function in TORS Patients Requiring Postoperative Adjuvant Treatment**
Opeoluwa O. Daniyan, MD, Miami, FL; Mario A. Landera, SLP-D, Miami, FL;
Donna S. Lundy, PhD, Miami, FL; Carlos L. Green, MD, Miami, FL;
Caitlin M. Coviello, BS, Miami, FL; Giovana R. Thomas, MD, Miami, FL
- 11:12** **Health Literacy: Impact on Quality of Life in Head and Neck Cancer Survivors**
Marci Lee Nilsen, PhD RN, Pittsburgh, PA; Lingyun Lyu, MS, Pittsburgh, PA;
Shyamal Das Peddada, PhD, Pittsburgh, PA; Evan J. Randazza, BA, Pittsburgh, PA;
Jonas T. Johnson, MD, Pittsburgh, PA
- 11:19** **Impact of Opioid Dependence on Major Head and Neck Surgery**
Varesh R. Patel, BA, Newark, NJ; Sana H. Siddiqui, BA, Newark, NJ;
Loka P. Thangamathesvaran, BA, Newark, NJ; Peter F. Svider, MD, Newark, NJ;
Jean Anderson Eloy, MD, Newark, NJ; Wayne D. Hsueh, MD, Newark, NJ
- 11:26** **The Effects of Pulmonary Hypertension on Major Head and Neck Procedures**
Varesh R. Patel, BA, Newark, NJ; Nirali M. Patel, BA, Newark, NJ (Presenter);
Mina T. Mikhael, BA, Newark, NJ; Peter F. Svider, MD, Newark, NJ;
Jean Anderson Eloy, MD, Newark, NJ; Wayne D. Hsueh, MD, Newark, NJ
- 11:33** **Outpatient Parotidectomy: A Safe and Feasible Alternative to Inpatient Surgery**
Margaret C. Michel, BS, Washington, DC; Sean B. Bury, MD, Washington, DC;
Collin F. Mulcahy, MD, Washington, DC; Daniel A. Benito, MD, Washington, DC;
Punam G. Thakkar, MD, Washington, DC; Arjun S. Joshi, MD, Washington, DC
- 11:40** **Parathyroid Protection with the Transoral Endoscopic Thyroidectomy Vestibular Approach (TOETVA)**
Christopher R. Razavi, MD, Baltimore, MD; Lena W. Chen, BA, Baltimore, MD;
Ralph P. Tufano, MD MBA, Baltimore, MD; Jonathon O. Russell, MD, Baltimore, MD

11:47 **Patterns of Subsequent Cancer Diagnosis in Older Patients with Head and Neck Squamous Cell Carcinoma: A Population Based Analysis**
John F. Ryan, BS, Baltimore, MD; Amanda L. Blackford, ScM, Baltimore, MD; David Lim, MS, Baltimore, MD; David W. Eisele, MD, Baltimore, MD; Carole Fakhry, MD MPH, Baltimore, MD

11:54 **Q&A**

12:00 - 1:00 **Lunch/Visit Exhibits/View Posters - Ballroom**

10:00 - 12:00 CONCURRENT SESSION 5B
OTOLOGY/NEUROTOLOGY - CAROUSEL ROOM

Moderator: Maroun T. Semaan, MD, Cleveland, OH

10:00 **Patterns and Severity of Transverse Sinus Stenosis in Patients with Pulsatile Tinnitus Associated with Sigmoid Sinus Wall Anomalies**
Daniel A. Hewes, MD, Cleveland, OH; Prashant Raghavan, MBBS, Baltimore, MD; David J. Eisenman, MD, Baltimore, MD

10:07 **Bulk of Bone for BAHA in Children 0-4 Years of Age**
Kareem M. Al-Mulki, BA, Atlanta, GA; Nadja Kadom, MD, Atlanta, GA; Norman Wendell Todd, MD MPH, Atlanta, GA

10:14 **Lloyd A. Storrs Jr., MD Resident Research Award - Southern Section Evaluating Correlation between Hearing Loss and Middle Ear Volume in Patients with a Tympanic Membrane Perforation**
Garrett G. Casale, MD, Charlottesville, VA; Ellen C. Shaffrey, BS, Charlottesville, VA; Bradley W. Kesser, MD, Charlottesville, VA

10:21 **VEMP Tuning Changes in Meniere's Disease Stages**
Stefania Goncalves, MD, Miami, FL; Simon Ignacio Angeli, MD, Miami, FL

10:28 **Assessment of Surgical Skills Using Intraoperative Videos of Mastoidectomies**
Kyle D. Kulbarsh, MPhil, Charleston, SC; Charmee H. Mehta, BSPH, Charleston, SC; James R. Dornhoffer, MD, Charleston, SC; Michaela F. Close, BS, Charleston, SC; Ted A. Meyer, MD PhD, Charleston, SC

10:35 **Utility of Balloon Dilation of the Eustachian Tube for Military Divers and Aviators**
Edward R. Utz, MD, San Diego, CA; Austin J. Labanc, DO, San Diego, CA; Mikal J. Nelson, MD, San Diego, CA; Philip A. Gaudreau, MD, San Diego, CA; Sean R. Wise, MD, San Diego, CA

10:42 **Eustachian Tube Dysfunction in Children with Cleft Palate: Tympanometric Time to Event Analysis**
Mena Said, BS, Sacramento, CA; Samantha N. McKinney, AuD F-AAA, Sacramento, CA; Ahmed G. Bayoumi, MB BCh CCRC, Sacramento, CA; Travis T. Tollefson, MD MPH, Sacramento, CA; Jamie Funamura, MD, Sacramento, CA

10:49 **Q&A**

10:55 - 12:00 **MENIERE'S DISEASE: PEARLS IN PATIENT MANAGEMENT**
Moderator: Sujana S. Chandrasekhar, MD FACS, New York, NY
Panelists: **Introduction and overview including clinical questions**
Sujana S. Chandrasekhar, MD FACS, New York, NY
 Making a Diagnosis: Understanding Testing in Meniere's
Yuri Agrawal, MD, Baltimore, MD
 When Is it Meniere's and When Is it Migraine?
Hamid R. Djalilian, MD, Irvine, CA
 Dietary Counseling for Meniere's - What Works and Why?
Mia E. Miller, MD, Los Angeles, CA
 Systemic Medications: Diuretics, Steroids, Betahistine,
 Antihistamines, Antivirals, Allergy Treatment
Brian W. Blakley, MD PhD FACS, Winnipeg, MB Canada
 Inner Ear Pharmacology - Steroids, Gentamicin, Other
Soha N. Ghossaini, MD FACS, Auburndale, NY
 Surgery for Meniere's: PE Tubes, Meniett, ELS, Vestibular Nerve
 Section, Labyrinthectomy
Mia E. Miller, MD, Los Angeles, CA

11:55 **Q&A**

12:00 - 1:00 **Lunch/Visit Exhibits/View Posters - Ballroom**

12:10 - 1:00 **Tips for Peer-Reviewing from the Editors - *Open to current and potential reviewers for The Laryngoscope and Laryngoscope Investigative Otolaryngology (attendees should bring lunch from the buffet to the seminar)***

1:10 - 3:05 CONCURRENT SESSION 6A
PEDIATRIC OTOLARYNGOLOGY - CROWN ROOM

Moderator: Sherard A. Tatum, MD FACS, Syracuse, NY

1:10 **Cytokeratin Expression in Respiratory Progenitor Cells in Mouse Model of Orthotopic Segmental Tracheal Replacement**
Matthew G. Wiet, MS, Columbus, OH; Audrey L. White, BS, Columbus, OH; Sayali Dharmadhikari, MS, Columbus, OH; Susan D. Reynolds, PhD, Columbus, OH; Tandy Chiang, MD, Columbus, OH

1:17 **Validation of the Maxillary Roof for Avoiding Skull Base Injury in Pediatric Sinus Surgery**
Sean S. Evans, MD, Birmingham, AL; Catherine H. Banks, MBChB FRACS, Sydney, NSW Australia; Joshua J. Richman, MD PhD, Birmingham, AL; Audie L. Woolley, MD, Birmingham, AL; Bradford A. Woodworth, MD, Birmingham, AL

1:24 **Detection of Pepsin in Oral Secretions of Infants with and without Laryngomalacia**
Miles J. Klimara, BA, Milwaukee, WI; Nikki Johnston, PhD, Milwaukee, WI (Presenter); Tina L. Samuels, MS, Milwaukee, WI; Robert H. Chun, MD, Milwaukee, WI; Michael E. McCormick, MD, Milwaukee, WI

- 1:31** **Clinical and Radiological Features of Ectopic Cervical Thymus in Children**
 Patricia L. Purcell, MD, Toronto, ON Canada; Faisal Zawawi, MD MSc FRCSC, Toronto, ON Canada; Evan J. Propst, MD MSc FRCSC, Toronto, ON Canada; Blake C. Papsin, MD MSc FRCSC, Toronto, ON Canada; Susan I. Blaser, MD FRCP(C), Toronto, ON Canada; Nikolaus E. Wolter, MD MSc FRCSC, Toronto, ON Canada
- 1:38** **Treatment of Children with Obstructive Sleep Apnea and Laryngomalacia: The Role of Laser Supraglottoplasty, a Randomized Controlled Trial**
 Alhasan N. Elghouche, MD MS, Indianapolis, IN; Bruce H. Matt, MD MSc FAAP FACS, Indianapolis, IN
- 1:45** **Perception of Secondary Cleft Lip Deformity in the Pediatric Population, a Pilot Study**
 Emily E. Karp, BS, Minneapolis, MN; Andrew R. Scott, MD, Boston, MA; Sivakumar Chinnadurai, MD MPH, Minneapolis, MN; Katherine B. Martin, PhD, Falls Church, VA; Brianne B. Roby, MD, St. Paul, MN
- 1:52** **Resource Utilization of Intraoperative Cultures for Pediatric Deep Neck Space Abscesses**
 Sophie G. Shay, MD, Milwaukee, WI; Sarah Khayat, MD, Chicago, IL; Rebecca Xu, MD, Chicago, IL; Taher Valika, MD, Chicago, IL; Sameer J. Patel, MD, Chicago, IL; Jennifer M. Lavin, MD MS, Chicago, IL
- 1:59** **Q&A**
- 2:05 - 3:00** **COLLABORATIVE PANEL WITH AMERICAN SOCIETY OF PEDIATRIC OTOLARYNGOLOGY: PEDIATRIC MULTIDISCIPLINARY TEAMS**
Moderator: Dana M. Thompson, MD FACS, Chicago, IL
Panelists: **Value of Teams in the CI/SNHL Population**
 Blake C. Papsin, MD FACS, Toronto, ON Canada
 Value of Teams in Pediatric Voice Disorders
 Alessandro de Alarcon, MD MPH, Cincinnati, OH
 Craniofacial Teams and VPI
 Amelia F. Drake, MD FACS, Chapel Hill, NC
 Aerodigestive Teams
 Shelagh A. Cofer, MD, Rochester, MN
- 3:00** **Q&A**
- 3:10 - 3:30** **Break/View Posters - Ballroom**
- 1:10 - 3:05 CONCURRENT SESSION 6B**
GENERAL AND SLEEP MEDICINE - CAROUSEL ROOM
- 1:10 - 2:05** **CHALLENGES TO PROFESSIONALISM IN OUR HEALTHCARE SYSTEM 2019**
Moderator: Gerald B. Healy, MD FACS, Boston, MA
Panelists: Stanley M. Shapshay, MD FACS, Albany, NY
 Jonas T. Johnson, MD FACS, Pittsburgh, PA
- 2:05** **Q&A**

Moderator: Liana Pucas, MD MHS MA FACS, Durham, NC

- 2:10 Francis L. Lederer, MD Resident Research Award - Middle Section
Polysomnographic Outcomes in Children under 3 Years with Mild Obstructive Sleep Apnea Treated with Observation**
Douglas C. Von Allmen, MD, Cincinnati, OH; Kathleen M. Sarber, MD, Cincinnati, OH; Javier Howard, BS MPH, Cincinnati, OH; Raisa Tikhtman, BS, Cincinnati, OH; David F. Smith, MD, Cincinnati, OH; Stacey L. Ishman, MD MPH, Cincinnati, OH
- 2:17 Polysomnographic Outcomes in Children with Down Syndrome and Mild Obstructive Sleep Apnea Treated with Medication versus Oxygen or Observation Alone**
Javier J.M. Howard, BS MPH, Cincinnati, OH; Kathleen M. Sarber, MD, Cincinnati, OH; Wenwen Yu, MD, Shanghai, China; David F. Smith, MD PhD, Cincinnati, OH; Narong Simakajornboon, MD, Cincinnati, OH; Stacey L. Ishman, MD MPH, Cincinnati, OH
- 2:25 The Association between Asthma, Obesity, and Severe OSA among Pediatric Patients - A Case Control Series**
Ajay Narayanan, BS, Dallas, TX; Ahana Yogesh, BA, Dallas, TX; Ron B. Mitchell, MD, Dallas, TX; Romaine F. Johnson, MD, Dallas, TX
- 2:32 Ketorolac Usage in Perioperative Tonsillectomy and Uvulopalatopharyngoplasty**
Kathleen E. McClain, DO, Detroit, MI; Amy M. Williams, PhD, Detroit, MI; Zaahir Turfe, MD, Detroit, MI; Kathleen L. Yaremchuk, MD, Detroit, MI
- 2:39 Rare Electrosurgical Complications during Tonsillectomy: Analysis of National Adverse Event Reporting**
Alisa Yamasaki, MD, Boston, MA; Neil Bhattacharyya, MD, Boston, MA
- 2:46 The Use of Peer Tympanic Membrane Photographs in Preclinical Otoscopy Training**
Amir A. Hakimi, BS, North Chicago, IL; David S. Foulad, MD, Loma Linda, CA
- 2:53 The Current State of Surgical Simulation Training in Otolaryngology: A Systematic Review of Otolaryngology Boot Camp Outcomes and an Analysis of Current Trends in Simulation**
Mohamedkazim M. Alwani, MD, Indianapolis, IN; Michael K. Larsen, BA, Indianapolis, IN; Elhaam H. Bandali, MS, Indianapolis, IN; Taha Z. Shipchandler, MD, Indianapolis, IN; Jonathan Ting, MD, Indianapolis, IN
- 3:00 Do Standardized Letters of Recommendation Forms in Otolaryngology Residency Applications Correlate with Objective Data?**
Alice L. Tang, MD, Cincinnati, OH; Javier V. Howard, BA, Cincinnati, OH; James C. Wang, MD PhD, Cincinnati, OH; Meredith E. Tabangin, MPH, Cincinnati, OH; Mekibib Altaye, PhD, Cincinnati, OH; Sarah L. Rohde, MD, Nashville, TN
- 3:05 Q&A**
- 3:10 - 3:30 Break/View Posters - Ballroom**

3:30 - 4:40 - GENERAL SESSION - CROWN ROOM

3:30 - 4:30

MILITARY MEDICAL PANEL: DEPARTMENT OF DEFENSE RESEARCH AND INNOVATION FROM THE BATTLEFIELD TO THE BEDSIDE

Moderators: Michael E. Hoffer, MD, CAPT (ret) MC USN, Miami, FL
Earl H. Harley, MD, CAPT (ret) MC USN, Washington, DC

Panelists: **Optimizing Warfighter Performance: A DoD Clinical and Operational Research Update**

LaKeisha Henry, COL MC USAF, Division Chief, DoD Hearing Center of Excellence, San Antonio, TX

Tanisha Hammill, PhD, Branch Chief, DoD Hearing Center of Excellence, San Antonio, TX

Acquired Olfactory Sensory Losses and Potential Therapeutic Role for Basal Stem Cells

Bradley J. Goldstein, MD PhD FACS, University of Florida, Miami, FL

A Rabbit Model for Airway Stenosis and Treatment with Fractionated CO2 Laser

Philip A. Gaudreau, MD LCDR MC USN, Assistant Chair, Department of Otolaryngology, Naval Medical Center, San Diego

En Route Care of the Battlefield Casualty

Guillermo J. Tellez, COL MC USAF, Command Surgeon, United States Southern Command, Miami, FL

4:30

Q&A

4:45

ADJOURN SESSION

5:00 - 6:15

MEET THE AUTHORS POSTER RECEPTION - for all attendees - Ballroom

6:15 - 7:30

PARTY - for all attendees - Ballroom
Buffett, beverages, and fun

POSTER PROGRAM

Allergy/Rhinology

1. **The Use of Diagnostic Imaging to Detect Intracranial Tumors in Idiopathic Olfactory Dysfunction: A Systematic Review**
Jack L. Birkenbeuel, BS, Irvine, CA; Dillon C. Cheung, BS, Irvine, CA; Ronald Sahyouni, PhD, Irvine, CA; Janice T. Chua, BA, Irvine, CA; Joseph Ai Choy, BS, Irvine, CA; Edward C. Kuan, MD MBA, Irvine, CA
2. **Functional Endoscopic Sinus Surgery and Sleep Outcomes in OSA Patients: A Systematic Review with Meta-Analysis**
Joshua B. Calton, BS, Oakland, CA; Megan L. Durr, MD FACS, Oakland, CA; Jonathan Liang, MD FARS FACS, Oakland, CA
3. **Misdiagnosis of Rhinosinusitis in Primary Care: If not Chronic Rhinosinusitis, Do Patients Have Acute Rhinosinusitis?**
Joshua B. Calton, BS, Oakland, CA; Christopher C. Xiao, MD, Oakland, CA; Mitchell Anderson, MS, Oakland, CA; Jonathan Liang, MD FACS FARS, Oakland, CA
4. **Spontaneous Involution of Juvenile Nasopharyngeal Angiofibromas: A Systematic Review**
Janice T. Chua, BA, Irvine, CA; Joseph A. Choy, BS, Irvine, CA; Jack L. Birkenbeuel, BS, Irvine, CA; Dillon C. Cheung, BS, Irvine, CA; Edward C. Kuan, MD MBA, Irvine, CA; Naveen D. Bhandarkar, MD, Irvine, CA
5. **Intraoperative Detection and Management of Internal Carotid Artery Thrombosis during Transsphenoidal Resection of Meningioma**
Alhasan N. Elghouche, MD MS, Indianapolis, IN; Shaheryar Ansari, MD, Indianapolis, IN; Mitesh V. Shah, MD, Indianapolis, IN; Jonathan Y. Ting, MD, Indianapolis, IN
6. **Transnasal Approach to Odontoid Resection in Pediatric Patients: A Single Institution's Experience**
John D. Gettelfinger, MD, Indianapolis, IN; Jonathan Y. Ting, MD, Indianapolis, IN; Daniel H. Fulkerson, MD, South Bend, IN; Stephen K. Mendenhall, MD, Indianapolis, IN
7. **Frailty as a Predictor of Short Term Outcomes and Cost of Care in Sinonasal Cancer Surgery**
Alexander N. Goel, BA, Los Angeles, CA; Jivianne T. Lee, MD, Los Angeles, CA; Marilene B. Wang, MD, Los Angeles, CA; Jeffrey D. Suh, MD, Los Angeles, CA
8. **Characterization of Sinus Disease in Patients with Yellow Nail Syndrome**
Claudia N. Gutierrez, MS, Rochester, MN; Christopher M. Low, MD, Rochester, MN; Janalee K. Stokken, MD, Rochester, MN; Garret W. Choby, MD, Rochester, MN; Erin K. O'Brien, MD, Rochester, MN
9. **Geographic Variation in Epistaxis Interventions among the Medicare Population**
Kevin Hur, MD, Los Angeles, CA
10. **Graduated Approach for Resection of Large Paranasal Sinus Osteomas with Orbital Involvement**
Qasim Husain, MD, Boston, MA; Catherine G. Banks, MD, Boston, MA; George A. Scangas, MD, Boston, MA; Ralph B. Metson, MD, Boston, MA
11. **Socioeconomic and Demographic Determinants of Outcomes after Endoscopic Sinus Surgery**
Aria Jafari, MD, San Diego, CA; Sarek A. Shen, BS, San Diego, CA; John Pang, MD, San Diego, CA; Adam S. DeConde, MD, San Diego, CA

12. **Translation, Cross-Cultural Adaptation, Statistical Validation of the Sino-Nasal Outcome Test-22 to Kenyan Swahili**
Aria Jafari, MD, San Diego, CA; Sarek A. Shen, BS, San Diego, CA;
Bharat A. Panuganti, MD, San Diego, CA; Bruce H. Campbell, MD, Milwaukee, WI;
Henry N. Ngoitisi, MMED, Eldoret, UasinGishu Kenya; Adam S. DeConde, MD, San Diego, CA
13. **Trends in Endoscopic Sinus Debridement in the Medicare Population: We Do A Lot. More Than We Should?**
Rijul S. Kshirsagar, MD, Oakland, CA; Jonathan N. Liang, MD, Oakland, CA
14. **Endoscopic, Transoral Retrieval of Infratemporal Fossa Foreign Bodies**
Ashton E. Lehmann, MD, Boston, MA; George A. Scangas, MD, Boston, MA; Ralph Metson, MD, Boston, MA
15. **Is Chronic Sphenoid Sinusitis Associated with Pneumonia?**
Robert A. McQuitty, BS, Galveston, TX; Roger D. Rui, BS, Galveston, TX;
Mohamad R. Chaaban, MD MSCR MBA, Galveston, TX
16. **Optical Coherence Tomography of Upper Respiratory Cilia**
Tiffany T. Pham, MS, Irvine, CA; Lily Y. Chen, BS, Irvine, CA; Andrew E. Heidari, PhD, Irvine, CA; Naveen D. Bhandarkar, PhD, Irvine, CA; Zhongping Chen, PhD, Irvine, CA;
Brian J.F. Wong, MD PhD, Irvine, CA
17. **Association between Objective Anosmia and Depression in Adults**
Jamiluddin J. Qazi, BS, Charlottesville, VA; Jose L. Mattos, MD MPH, Charlottesville, VA (Presenter); Ian T. Churnin, MD, Charlottesville, VA; James H. Wilson, BS, Charlottesville, VA; Cyrelle-Elize R. Fermin, BS, Charlottesville, VA; Spencer C. Payne, MD, Charlottesville, VA
18. **Transient Abducens Nerve Palsy after Regional Anesthesia Following Endoscopic Sinus Surgery**
Robert Saddawi-Konefka, MD PhD, San Diego, CA; Aria Jafari, MD, San Diego, CA;
Adam S. DeConde, MD, San Diego, CA
19. **Differences in Clinical Presentation of Chronic Rhinosinusitis in Pediatric Patients with Cystic Fibrosis Based on Severity of Disease**
Gopi B. Shah, MD MPH, Dallas, TX; Ramya K. Krothapally, BA, Dallas, TX;
Ashleigh A. Halderman, MD, Dallas, TX
20. **Effects of Eosinophilia and Nasal Polyposis on Quality of Life in Chronic Rhinosinusitis Patients with Concurrent Asthma**
Sandra Y. Tadros, BS, Augusta, GA; Aykut A. Unsal, DO, Augusta, GA;
Thomas W. Holmes, MD, Augusta, GA; Stilianos E. Kountakis, MD PhD, Augusta, GA
21. **Preventing Restenosis of Marsupialized Rathke's Cleft Cysts Using a Nasoseptal Flap Lining**
Monica S. Trent, BS, Irvine, CA; Neil N. Luu, BA, Philadelphia, PA; Edward C. Kuan, MD MBA, Philadelphia, PA; Michael A. Kohanski, MD PHD, Philadelphia, PA;
Charles C. Tong, MD, Philadelphia, PA; Bert W. O'Malley Jr., MD, Philadelphia, PA
22. **Gender and Chronic Rhinosinusitis: An Investigation of Subtypes and Quality of Life**
Aykut A. Unsal, DO MS, Augusta, GA; Sandra Y. Tadros, BS, Augusta, GA;
Thomas W. Holmes, MD, Augusta, GA; Stilianos E. Kountakis, MD PhD, Augusta, GA

23. **Predictive Value of Olfactory Deficit for Future Cognitive Decline in Healthy Adults: A Systematic Review**
Melina J. Windon, MD, Baltimore, MD; Sun Joo Kim, BS, Baltimore, MD; Esther Oh, MD PhD, Baltimore, MD; Sandra Lin, MD, Baltimore, MD

Facial Plastic & Reconstructive

24. **Chondrosarcoma of the Mandibular Coronoid Process with Custom PEEK Implant and Radial Forearm Free Flap Reconstruction**
Benjamin F. Bitner, BS, Irvine, CA; Beverly Y. Wang, MD, Irvine, CA; Tjason Tjoa, MD, Irvine, CA
25. **Association between Preoperative Serum Albumin Levels and Complications Following Free Flap Procedures**
Chris B. Choi, BA, Newark, NJ; Michael W. Song, BA, Newark, NJ; Richard D. Bavier, BA, Newark, NJ; Soly Baredes, MD FACS, Newark, NJ; Richard C. Park, MD FACS, Newark, NJ
26. **Surgical Reconstruction of Acquired Cocaine Induced Cleft Lip, a Case Report**
David W. Chou, MD, Oakland, CA; Charles W. Shih, MD, Oakland, CA
27. **Regenerative Implications of Priming Stimuli on the Peripheral Nervous System**
Michael S. Chow, BS, Los Angeles, CA; Sanjana Ahsan, BA, Los Angeles, CA; Kyohei Itamura, BS, Los Angeles, CA; David D. Lam, BS, Los Angeles, CA; Joseph T. Rodgers, PhD, Los Angeles, CA; Amit Kochhar, MD, Los Angeles, CA
28. **Rate and Factors Associated with Change in Surgeon for Revision Septorhinoplasty**
Kayva Crawford, MD, San Diego, CA; Bharat Panuganti, MD, San Diego, CA; Brittany N. Burton, MHS MAS, San Diego, CA; Aria Jafari, MD, San Diego, CA; Deborah Watson, MD, San Diego, CA
29. **Delayed Facial Palsy Associated with Polytetrafluoroethylene Granuloma: A Late Consequence of Microvascular Decompression**
Adeeb Derakhshan, MD, Boston, MA; Jenny X. Chen, MD, Boston, MA; Jacqueline J. Greene, MD, Boston, MA; Nate Jowett, MD, Boston, MA; Tessa A. Hadlock, MD, Boston, MA
30. **Role of Mobile Health on Patient Enrollment for Cleft Lip Palate Surgery: A Comparative Study Using SMS Blast Text Messaging in Zimbabwe**
Shekhar K. Gadkaree, MD, Boston, MA; Jennifer C. Fuller, MD, Boston, MA; Travis T. Tollefson, MD, Sacramento, CA; Faith C. Muchemwa, MBChB PhD, Harare, Zimbabwe; Aleck Gongga, MBChB, Harare, Zimbabwe; David A. Shaye, MD, Boston, MA
31. **Assessing Patient Satisfaction in Hair Restoration Surgery: Opportunities to Improve**
Amir A. Hakimi, BS, North Chicago, IL; Jonathan P. Yasmeh, MS, Los Angeles, CA; Benjamin D. Boodaie, BS, New York, NY; David S. Foulad, MD, Loma Linda, CA
32. **Economic Impact of a Facial Plastic and Reconstructive Surgeon: The Case Mix Index**
Nikolaus S. Hjelm, MD, Philadelphia, PA; Akshay Sanan, MD, Stanford, CA; Howard D. Krein, MD PHD, Philadelphia, PA; Ryan N. Heffelfinger, MD, Philadelphia, PA
33. **Electrochemolysis of Human Adipose Tissue**
Dana M. Hutchison, MS, Irvine, CA; Melissa Bircan, , Irvine, CA; Tiffany T. Pham, MS, Irvine, CA; Yueqiao Qu, PhD, Irvine, CA; Mark R. Kobayashi, MD, Irvine, CA; Brian J.F. Wong, MD PhD, Irvine, CA

34. **Correlating Gene Methylation and MicroRNA Function in Keloid Pathogenesis**
Joanna Kam, MD, Detroit, MI; Laura Garcia-Rodriguez, MD, Detroit, MI; Indrani Datta, MS, Detroit, MI; George Divine, PhD, Detroit, MI; Maria J. Worsham, PhD, Detroit, MI; Lamont R. Jones, MD MBA, Detroit, MI
35. **Simultaneous Maxillary and Mandibular Reconstruction with a Single Osteocutaneous Fibular Free Flap: A Case Series**
Natalie A. Krane, MD, Portland, OR; Adam P. Fagin, DMD MD, Portland, OR; Tamer A. Ghanem, MD PhD, Detroit, MI; Steven B. Cannady, MD, Philadelphia, PA; Daniel I. Petrisor, DMD MD, Portland, OR; Mark K. Wax, MD, Portland, OR
36. **Facial Artery Musculomucosal Flap for Nasopharyngeal Reconstruction and Velopharyngeal Insufficiency**
Elizabeth A. Mannino, BS, Norfolk, VA; Benjamin J. Rubinstein, MD, Norfolk, VA; Eric J. Dobratz, MD, Norfolk, VA
37. **Comparison of Outpatient vs. Inpatient Orbital Fracture Repair: A NSQIP Analysis**
Parsa P. Salehi, MD, New Haven, CT; Sina J. Torabi, BA, New Haven, CT; Yan H. Lee, MD, New Haven, CT
38. **Postoperative Pain and Opioid Need after Facial Mohs Defect Reconstruction**
Anthony P. Sclafani, MD, New York, NY
39. **Optical Coherence Tomography Imaging of the Internal Nasal Valve during Inspiration: Correlation of Cross-Sectional Area and Intranasal Pressure**
Giriraj K. Sharma, MD, Irvine, CA; Tuan Ngo, BS, Irvine, CA; Christopher Badger, BS, Irvine, CA; Prem B. Tripathi, MD MPH, Irvine, CA; Zhongping Chen, PhD, Irvine, CA; Brian J.F. Wong, MD PhD, Irvine, CA
40. **Safety and Efficacy of MRI Scanning in Patients with Implanted Microvascular Coupling Devices**
William W. Thomas, MD, Portland, OR; Neelam Phalke, MD, Baton Rouge, LA; James Azzi, MD, Portland, OR; Ryan J. Li, MD, Portland, OR; Daniel Petrisor, DMD MD, Portland, OR; Mark K. Wax, MD, Portland, OR
41. **Incidence of Delayed Surgery and Predicting Factors for Adverse Events in Elective Maxillofacial Fracture Repair**
Sina J. Torabi, BA, New Haven, CT; Jonathan M. Avery, BS, New Haven, CT; Parsa P. Salehi, MD, New Haven, CT; Yan H. Lee, MD, New Haven, CT
42. **Venous Flow Coupler in Head and Neck Free Flap Reconstruction**
Scott H. Troob, MD, New York, NY; Quinn Self, MD, Burlington, VT (Presenter); James Azzi, MD, Palm Beach, FL; William W. Thomas, MD, Portland, OR; Daniel I. Petrisor, MD DDS, Portland, OR; Mark K. Wax, MD, Portland, OR
43. **Anatomic Optical Coherence Tomography (aOCT) for Evaluation of the Internal Nasal Valve: A Cadaveric Study**
Candace Mitchell Waters, MD, Chapel Hill, NC; William W. Shockley, MD, Chapel Hill, NC; J. Madison Clark, MD FACS, Chapel Hill, NC
44. **Comparing Caliper versus CT Measurements of Cephalic Index in Children with Craniosynostosis**
Grace T. Wu, MD, Syracuse, NY; Jason R. Audlin, MD, Syracuse, NY; Jeewanjot S. Grewal, BS, Syracuse, NY; Sherard A. Tatum, MD, Syracuse, NY
45. **The Case of the Eyelid Silicone Granulomas**
Jacqueline A. Wulu, MD, Boston, MA; Laura R. Garcia-Rodriguez, MD, Boston, MA; Jeffrey H. Spiegel, MD, Boston, MA

46. **Septorhinoplasty and Endoscopic Sinus Combination Surgery: Surgical Characteristics, Demographics, Charge, and OR Time Comparisons**
Yanchen Zhang, BA, Los Angeles, CA; Amit Kochhar, MD, Los Angeles, CA; Laurel Fisher, PhD, Los Angeles, CA; Patrick Byrne, MD, Baltimore, MD; Stephanie Smith, MD, Chicago, IL; Elisabeth Ference, MD, Los Angeles, CA

General

47. **Socioeconomic Status and Otolaryngology Disease Factors on CPAP Compliance**
Eric H. Abello, BS, Chicago, IL; Abdul Basit, MS, Chicago, IL; Alexandra C. Lastra, MD, Chicago, IL; Mahboobeh Mahdavinia, MD, Chicago, IL; Jill S. Jeffe, MD, Chicago, IL; Philip S. Losavio, MD, Chicago, IL
48. **Multicenter Validation of a Tracheostomy Care Teaching Program for Internal Medicine Residents**
Ashwin Ananth, MD MBA, New Orleans, LA; Jeremy Barr, BS, New Orleans, LA; Gabriella Frisenda, BS, New Orleans, LA; Edward D. McCoul, MD MPH, New Orleans, LA
49. **Upper Airway Stimulation Therapy and Sleep Architecture in Patients with Obstructive Sleep Apnea**
Dominique Bohorquez, BA, Philadelphia, PA; Ahmad F. Mahmoud, MD, Philadelphia, PA; Jason L. Yu, MD, Philadelphia, PA; Erica R. Thaler, MD, Philadelphia, PA
50. **Where Do Nasal Mesenchymal-like Stem Cells Reside in vivo?**
Rhea Choi, BA, Miami, FL; Michael A. Durante, BA, Miami, FL; Garrett M. Goss, BA, Miami, FL; Zukaa B. Sargi, MD, Miami, FL; Bradley J. Goldstein, MD PhD, Miami, FL
51. **Assessing Clinical Practice Guideline Compliance for Evaluation and Management of Idiopathic Sudden Sensorineural Hearing Loss**
Christopher O. DaSilva, BS, Chicago, IL; Benjamin D. Malkin, MD, Oakland, CA
52. **Cytomegalovirus Legislation Update: Implications for Pediatric Hearing Loss Prevention**
Yalda Dehghan, BA, La Jolla, CA; Sapideh Gilani, MD FACS, San Diego, CA
53. **Palliative Care in Head and Neck Squamous Cell Carcinoma: Are the Most Common Treatments Improving Survival?**
Marcus L. Elias, BS, Newark, NJ; Joseph S. Weisberger, MS, Newark, NJ; Richard D. Bavier, BA, Newark, NJ; Soly Baredes, MD, Newark, NJ; Richard Chan Woo Park, MD, Newark, NJ
54. **High Volume Surgeons Have Lower Complication Rates for Thyroidectomy**
Antoinette R. Esce, BA, Rochester, NY; Paul D. Allen, PhD, Rochester, NY; Alexis M. Strohl, MD, Rochester, NY
55. **The Role of Safety Net Hospitals in Otolaryngology Residency**
Annie N. Farrell, BS, Atlanta, GA; Charles E. Moore, MD, Atlanta, GA; Anita B. Sethna, MD, Atlanta, GA; Oswaldo A. Henriquez, MD, Atlanta, GA
56. **Electronic Consults (eConsults) in Otolaryngology: A Retrospective Review of Use, Content, and Outcomes in an Academic Health System**
Sapideh Gilani, MD, San Diego, CA; Krishna K. Bommakanti, BA, San Diego, CA (Presenter)

57. **The Impact of Medical Scribes on Patient Satisfaction in an Academic Otolaryngology Clinic**
Katherine R. Keefe, BA, Boston, MA; Jessica R. Levi, MD, Boston, MA;
Christopher D. Brook, MD, Boston, MA
58. **Consideration of Mononucleosis in Diagnosis and Treatment of Peritonsillar Abscess**
Kevin J. Kovatch, MD, Ann Arbor, MI; S. Ahmed Ali, MD, Ann Arbor, MI;
Joshua D. Smith, BS, Ann Arbor, MI; Emily L. Bellile, MS, Ann Arbor, MI;
John E. Hanks, MD, Ann Arbor, MI; Paul T. Hoff, MD, Ann Arbor, MI
59. **Practice Patterns of Antireflux Medication Prescriptions in Otolaryngology Compared to Other Specialties**
Friederike S. Luetzenberg, BS, Orlando, FL; Nancy Jiang, MD, Oakland, CA
60. **Surgical Outcomes and Quality of Life Changes Following a Spectrum of Head and Neck Surgeries in a Resource Limited Setting**
Bharat A. Panuganti, MD, San Diego, CA; Aria Jafari, MD, San Diego, CA;
Henry N. Ngoitisi, MMED, Eldoret, NA Kenya; Bruce H. Campbell, MD, Milwaukee, WI;
Susan R. Cordes, MD, Ukiah, CA
61. **Development of a Validated Assessment of Patient Reported Outcomes Following Sialendoscopy for Management of Chronic Sialadenitis**
Fatemeh Ramazani, BMSc, Edmonton, AB Canada; Amr F. Hamour, MD,
Toronto, ON Canada; Caroline C. Jeffrey, MD, Edmonton, AB Canada;
Vincent L. Biron, MD, Edmonton, AB Canada; Yaser A. Alrajhi, MD, Edmonton, AB Canada;
David W.J. Cote, MD, Edmonton, AB Canada

Head & Neck

62. **Insurance Status Effect on Laryngeal Cancer Survival**
Nicholas B. Abt, MD, Boston, MA; Anuraag S. Parikh, MD, Boston, MA; Neil
Bhattacharyya, MD, Boston, MA
63. **Risks of Thyroidectomy after Indeterminant Fine Needle Aspiration**
Richard D. Bavier, BA, Newark, NJ; Sana H. Siddiqui, BA, Newark, NJ; Jesse Veisblatt, BA,
Newark, NJ; Soly Baredes, MD FACS, Newark, NJ; Richard Chan Woo Park, MD FACS,
Newark, NJ
64. **Under-Utilization of Treatment in Elderly Patients with Oropharynx Cancer**
Elaine O. Bigelow, MD, Baltimore, MD; Carole Fakhry, MD MPH, Baltimore, MD;
Karen T. Pitman, MD, Baltimore, MD; Wayne M. Koch, MD, Baltimore, MD;
David W. Eisele, MD, Baltimore, MD; Christine G. Gourin, MD MPH, Baltimore, MD
65. **Effect of Medical Comorbidities on Treatment Regimen and Survival Outcomes in Locally Advanced Laryngeal Cancer**
Craig A. Bollig, MD, Columbia, MO; Jumah G. Ahmad, BS, Columbia, MO;
Laura M. Dooley, MD, Columbia, MO
66. **Cesium-131 Brachytherapy for Patients Unable to Tolerate External Beam Radiation Therapy: A Case Series**
Jonathan D. Bornstein, BA, Philadelphia, PA; Michael Zhao Cheng, BS, New York, NY
(Presenter); Andi J. Cummins, BS, Cleveland, OH; Voika Bar-Ad, MD, Philadelphia, PA;
David I. Kutler, MD, New York, NY; Adam J. Luginbuhl, MD, Philadelphia, PA;
Chad A. Zender, MD, Cleveland, OH

67. **Adjuvant Radiation for Head and Neck Malignant Paragangliomas Is Associated with Improved Survival Outcomes: Analysis of the SEER Database**
Richard B. Cannon, MD, Salt Lake City, UT; Luke O. Buchmann, MD, Salt Lake City, UT; Jason P. Hunt, MD, Salt Lake City, UT; Shane Lloyd, MD, Salt Lake City, UT; Ying J. Hitchcock, MD, Salt Lake City, UT; Marcus M. Monroe, MD, Salt Lake City, UT
68. **Predictors of Recurrence in T1 and T2 Oral Tongue Squamous Cell Carcinoma**
Benjamin J. Damazo, MD, Loma Linda, CA; Yuan F. Liu, MD, Loma Linda, CA; Jared C. Inman, MD, Loma Linda, CA; Jason E. Gilde, MD, Loma Linda, CA; Daniel I. Kwon, MD, Loma Linda, CA; Pedro F. De Andrade, MD, Loma Linda, CA
69. **Determination of Micrometastasis in PET Negative Neck Nodes Primarily Treated with Radical CTRT for Pharyngeal and Laryngeal Lesions: A Retrospective Analysis**
Somdipto B. Das, MD, Los Angeles, CA; Niels C. Kokot, MD FACS, Los Angeles, CA; Uttam K. Sinha, MD FACS, Los Angeles, CA; Mark S. Swanson, MD, Los Angeles, CA
70. **Presumed Diagnosis of Branchial Cleft Cysts Leads to Delayed Recognition of Metastatic HPV Positive Oropharyngeal Squamous Cell Carcinoma**
Ruth J. Davis, MD, Baltimore, MD; Eleni M. Rettig, MD, Rochester, MN; Nafi Aygun, MD, Baltimore, MD; David W. Eisele, MD, Baltimore, MD; Carole Fakhry, MD MPH, Baltimore, MD
71. **A Low Cost High Fidelity Model for Training Peritonsillar Abscess Drainage**
Aaron J. Done, PhD, Tucson, AZ; Marshall J. Fairres, BS, Tucson, AZ; Cody J. Smith, BS, Tucson, AZ; Shawn M. Stevens, MD, Phoenix, AZ
72. **Characterizing Posterior Neck Masses: A Single Institution Retrospective and Systematic Review**
Andrey Finegersh, MD PhD, San Diego, CA; William Moss, MD, San Diego, CA; Danielle Gillard, BS, San Diego, CA; Kevin Brumund, MD, San Diego, CA; Charles Coffey, MD, San Diego, CA; Ryan Orosco, MD, San Diego, CA
73. **First Line Surgery Is Associated with Improved Survival among Patients with Locoregionally Advanced Hypopharyngeal Squamous Cell Carcinoma: An Evaluation of SEER Data**
Colleen G. Hochfelder, BS, Bronx, NY; Vikas Mehta, MD, Bronx, NY; Aileen P. McGinn, PhD, Bronx, NY; Thomas J. Ow, MD, Bronx, NY
74. **The Determinants of Overall Survival in Head and Neck Cancer: The Interaction of Charlson Comorbidity Index, Socioeconomic Factors, and Race**
Ayaka J. Iwata, MD MS, Detroit, MI; Amy M. Williams, PhD, Detroit, MI; Meredith G. Van Harn, MS, Detroit, MI; Steven S. Chang, MD, Detroit, MI
75. **Head and Neck Juxtacortical Chondrosarcoma: A Case Report and Systematic Review**
Alexander J. Jones, BS, Indianapolis, IN; Mohamedkazim Alwani, MD, Indianapolis, IN; Don-John Summerlin, DMD, Indianapolis, IN; Michael W. Sim, MD, Indianapolis, IN
76. **Impact of High Volume Centers in TORS for Oropharyngeal Squamous Cell Carcinoma**
Suat Kilic, MD, Cleveland, OH; Sarah S. Kilic, MD, Cleveland, OH; Meghan M. Crippen, MD, Philadelphia, PA; Jean Anderson Eloy, MD, Newark, NJ
77. **Intratracheal Ectopic Parathyroid: An Unexpected Diagnosis**
Susan J. Kurian, MD, Shreveport, LA; Mingxia M. Shi, MD, Shreveport, LA; Monsour L. Mirfakhraee, MD, Shreveport, LA; Cherie-Ann O. Nathan, MD FACS, Shreveport, LA

78. **Lymph Node Metastasis Patterns in Soft Palate Squamous Cell Carcinoma: A Population Based Analysis**
Jingfeng Liang, BA, Los Angeles, CA; Albert Y. Han, MD PhD, Los Angeles, CA;
Christine M. Kim, MD, Los Angeles, CA; Maie St. John, MD PhD, Los Angeles, CA
79. **Recurrent Laryngeal Nerve Paralysis after Total Thyroidectomy in Commercially Insured Patients**
Ioan A. Lina, MD, Baltimore, MD; Hsien-Yen Chang, PhD, Baltimore, MD; Jonathon Russell, PhD, Baltimore, MD; Ralph Tufano, MD, Baltimore, MD; David Eisele, MD, Baltimore, MD
80. **Intramuscular Myxoma Mistaken for Vagal Nerve Schwannoma: A Case Report**
Brian F. Manzi, MD, Shreveport, LA; Cherie-Ann A. Nathan, MD, Shreveport, LA
81. **NK-T Cell Lymphoma of the Soft Palate**
Jacqueline Joy Masehi-Lano, BS, San Francisco, CA; Christopher G. Tang, MD, San Francisco, CA (Presenter)
82. **Delayed Recurrence of Metastatic Testicular Teratoma in the Neck**
Thomas H. McMullen, BS, Shreveport, LA; Cherie-Ann O. Nathan, MD, Shreveport, LA
83. **Rigid Tracheostomy Tubes and Cutaneous Ulceration: An Institutional Review across Multiple Surgical Services**
Catherine M. Merna, MD, Irvine, CA; Daniel L. Diaz-Aguilar, MD, San Diego, CA; Tjason T. Tjoa, MD, Irvine, CA
84. **A Novel Technique for Tracheal Resection and Reconstruction**
Margaret C. Michel, BS, Washington, DC; Sahil P. Patel, BA, Washington, DC; Daniel A. Benito, MD, Washington, DC; Sean B. Bury, MD, Washington, DC; Punam G. Thakkar, MD, Washington, DC; Arjun S. Joshi, MD, Washington, DC
85. **Oral Cavity Squamous Cell Carcinoma as a Complication of Treatment for Recurrent Ovarian Cancer**
Lindsey E. Moses, MD, New York, NY; Janine M. Rotsides, MD, New York, NY; Fiyinfolu O. Balogun, MD, New York, NY; Mark S. Persky, MD, New York, NY; Franco M. Muggia, MD, New York, NY; Michael J. Persky, MD, New York, NY
86. **Floral Variant Follicular Lymphoma of the Oropharynx**
Kelly F. Moyer, MD, Washington, DC; Christopher P. Mesick, MD, Washington, DC
87. **Obstructive Pyriform Sinus Lipoma Excised with CO2 Laser**
Kelly F. Moyer, MD, Washington, DC; Matthew L. Pierce, MD, Washington, DC; Sarah K. Rapoport, MD, Washington, DC
88. **Primary Clear Cell Adenocarcinoma of the Head and Neck: A Population Based Analysis**
Laith A. Mukdad, BA, Los Angeles, CA; Albert Y. Han, MD PhD, Los Angeles, CA; Karam W. Badran, MD, Los Angeles, CA; Jose E. Alonso, MD, Los Angeles, CA; Maie A. St. John, MD PhD, Los Angeles, CA
89. **Barriers to Thyroid Cancer Screening with Ultrasound in Patients with Familial Adenomatous Polyposis**
Celeste Z. Nagy, MD, Atlanta, GA; Zachary A. Kelly, MD, Atlanta, GA; Steven A. Keilin, MD, Atlanta, GA; Field F. Willingham, MD MPH, Atlanta, GA; Amy Y. Chen, MD MPH, Atlanta, GA

90. **The Role of Palliative/Curative Reirradiation in Persistent and Recurrent Head and Neck Squamous Cell Carcinoma**
Hassan B. Nasser, MD, Los Angeles, CA; Kelly J. Pettijohn, MD, Los Angeles, CA; William C. Lorentz, MD, Los Angeles, CA; Vishad Nabili, MD, Los Angeles, CA; Marilene B. Wang, MD, Los Angeles, CA
91. **Decreasing Pharyngocutaneous Fistula with Use of Fibrin Tissue Adhesive**
Jaime J. Park, BA, Loma Linda, CA; Crystal H. Chang, BS, Loma Linda, CA; Khan K. Nguyen, MD, Loma Linda, CA; Daniel I. Kwon, MD, Loma Linda, CA
92. **Development of Ultrasound Induced Acoustic Imaging for Locating Tissue Boundaries**
Peter A. Pellionisz, BS, Los Angeles, CA; Nikan K. Namiri, BS, Los Angeles, CA; Gregory M. Suematsu, BS, Los Angeles, CA; Yong Hu, PhD, Los Angeles, CA; Maie A. St. John, MD PhD, Los Angeles, CA; Warren S. Grundfest, MD, Los Angeles, CA
93. **Giant Sized Periosteal Osteosarcoma of the Head and Neck: Case Report and Literature Review**
Peter A. Pellionisz, BS, Los Angeles, CA; Brooke M. Su, MD MPH, Los Angeles, CA; Keith E. Blackwell, MD, Los Angeles, CA; Maie A. St. John, MD PHD, Los Angeles, CA
94. **Outcomes Associated with Hurthle Cell Neoplasm on Fine Needle Aspiration of Thyroid Nodules**
Cyrus C. Rabbani, MD, Indianapolis, IN; Henna D. Patel, BS, Indianapolis, IN; Michael W. Sim, MD, Indianapolis, IN
95. **Prior Radiation Exposure Alters Airway Deformation during Laryngoscopy**
Christiaan A. Rees, PhD, Hanover, NH; Joseph A. Paydarfar, MD, Lebanon, NH (Presenter); Xiaotian Wu, BE, Hanover, NH; Eric A. Eisen, MD, Hanover, NH; David A. Pastel, MD, Lebanon, NH; Ryan J. Halter, PhD, Hanover, NH
96. **Use of Dental Extraction and Nonsurgical Airway Management in Early Cervical Necrotizing Fasciitis: A Report of 5 Cases**
John P. Richards, MD, Tucson, AZ; Jonathan N. Young, MD, Tucson, AZ
97. **Autonomous Computed Guided Robotic Resection for Oropharyngeal Carcinoma: An Experimental Protocol**
Hamed Saeidi, PhD, College Park, MD; Margaret Michel, BS, Washington, DC (Presenter); Justin Opfermann, PhD, Washington, DC; Jiawei Ge, MS, College Park, MD; Axel Krieger, PhD, College Park, MD; Arjun Joshi, MD, Washington, DC
98. **Understanding Giant Cell Sarcoma of the Head and Neck: A Population Based Study**
Rohan Sawhney, BA, Newark, NJ; Neel R. Sangal, BA, Newark, NJ; Lena A. Sheorey, BS, Newark, NJ; Soly Baredes, MD FACS, Newark, NJ; Richard Chan Woo Park, MD FACS, Newark, NJ
99. **Management of Giant Hemifacial Plexiform Neurofibroma in a Resource Limited Setting**
Sarek Alexander Shen, BS, La Jolla, CA; Aria Jafari, MD, San Diego, CA; Bharat A. Panuganti, MD, San Diego, CA; David M. Chan, MD, San Diego, CA; Bruce H. Campbell, MD, Milwaukee, WI; Susan R. Cordes, MD, Ukiah, CA
100. **Oculopharyngeal Muscular Dystrophy: A Rare Genetic Disorder**
Rebekah C. Smith, BA, Los Angeles, CA; Christopher G. Tang, MD, San Francisco, CA

- 101. Under-Utilization of Treatment in Elderly Patients with Laryngeal Cancer**
Kaitlyn F. Strickland, MD, Baltimore, MD; Carole Fakhry, MD MPH, Baltimore, MD;
Karen T. Pitman, MD, Baltimore, MD; Wayne M. Koch, MD, Baltimore, MD;
David W. Eisele, MD, Baltimore, MD; Christine G. Gourin, MD MPH, Baltimore, MD
- 102. 3D Exoscope vs Microscope for Microvascular Anastomosis: A not so Steep Learning Curve**
Warren C. Swegal, MD, Baltimore, MD; Suhael Momin, MD, Detroit, MI; Tamer Ghanem, MD PhD, Detroit, MI
- 103. Demographic and Clinicopathologic Factors Impacting Nodal Involvement in Oral Cavity Cancers at Time of Diagnosis**
Eve C. Swirski, BA, Newark, NJ; Neel R. Sangal, BA, Newark, NJ; Richard Chan Woo Park, MD, Newark, NJ
- 104. Supraclavicular Island Flap Used in the Surgical Repair of Tracheoesophageal Fistula and Esophageal Stricture**
John T. Symms, MD, Tucson, AZ; Audrey H. Baker, MD, Tucson, AZ; Samuel S. Kim, MD, Tucson, AZ
- 105. Robot Assisted Sialolithotomy with Sialoendoscopy for Large Submandibular Gland Sialoliths: A Review of Safety, Efficacy and Cost**
Alex J.F. Tampio, MD, Syracuse, NY; Mark Marzouk, MBBCH, Syracuse, NY
- 106. Submental Flap Practice Patterns and Complications: A Survey of AHNS Surgeons**
Liyang Tang, MD, Los Angeles, CA; Andrew T. Day, MD MPH, Dallas, TX;
Daniel G. Deschler, MD FACS, Boston, MA; Urjeet Patel, MD, Chicago, IL;
Kevin S. Emerick, MD, Boston, MA; Jeremy D. Richmond, MD, Boston, MA
- 107. Outcomes of Single Stage Integra Graft Reconstruction of Scalp Defects after Oncologic Resection**
Vanessa F. Torrecillas, MD, Salt Lake City, UT; Jason P. Hunty, MD, Salt Lake City, UT;
Luke O. Buchmann, MD, Salt Lake City, UT; Richard B. Cannon, MD, Salt Lake City, UT;
Marcus M. Monroe, MD, Salt Lake City, UT
- 108. Intraoperative Methylene Blue Use and Risk of Postoperative Complications in Head and Neck Microvascular Reconstruction**
Prem B. Tripathi, MD, Irvine, CA; Benjamin Bitner, BS, Irvine, CA; Govind Rajan, MD, Irvine, CA; Tjosen Tjoa, MD, Irvine, CA
- 109. The Effects of Cervical Compression Garment Therapy on Symptomatic Laryngeal Edema in Head and Neck Cancer Patients Treated with Radiation: A Pilot Study**
Andrew G. Tritter, MD, Shreveport, LA; Patrick T. Spiller, BS, Shreveport, LA;
Melanie L. Brown, CCC-SLP, Shreveport, LA; Paul M. Weinberger, MD, Shreveport, LA;
Cherie-Ann O. Nathan, MD, Shreveport, LA
- 110. Dyskeratosis Congenita: The Increased Risk of Early Development of Oral Squamous Cell Carcinoma**
Spencer D. Uetz, MS4, Grand Forks, ND; Alan W. Johnson, MD, Grand Forks, ND
- 111. Unplanned Readmission after Total Laryngectomy**
Swar N. Vimawala, BS, Philadelphia, PA; Michael C. Topf, MD, Philadelphia, PA;
Adam J. Luginbuhl, MD, Philadelphia, PA; Richard A. Goldman, MD, Philadelphia, PA;
David M. Cognetti, MD, Philadelphia, PA; Joseph M. Curry, MD, Philadelphia, PA

- 112. Relationship of Mass and Volume of Parathyroid Adenoma with Parathyroid Hormone Levels**
Emily L. Waddick, BS, Shreveport, LA; Rafay Q. Soleja, MD, Shreveport, LA; Ameya A. Asarkar, MD, Shreveport, LA; Tara N. Moore-Medlin, BS, Shreveport, LA; Cherie-Ann O. Nathan, MD FACS, Shreveport, LA
- 113. Core Needle Biopsy versus Fine Needle Biopsy in Salivary Glands: Complication Rate and Diagnostic Accuracy**
Edward M. Walton, BS, Detroit, MI; Amy M. Williams, PhD, Detroit, MI; Iyaka J. Awata, MD MS, Detroit, MI; Steven S. Chang, MD, Detroit, MI; Christian E. Keller, MD, Detroit, MI
- 114. Different Approaches to Palliative Management of Thyroid Carcinomas**
Joseph S. Weisberger, MS, Newark, NJ; Marcus L. Elias, BS, Newark, NJ; Chris B. Choi, BS, Newark, NJ; Soly Baredes, MD, Newark, NJ; Richard Chan Woo Park, MD, Newark, NJ
- 115. Prognostic Value of T and N Stage in Advanced Cutaneous Squamous Cell Carcinoma of the Head and Neck**
Angela W. Zhu, MPhil, Miami, FL; Samuel Trosman, MD, Miami, FL; Zoukaa Sargi, MD, Miami, FL

Laryngology/Bronchoesophagology

- 116. Burden of Allergic Disease and Laryngopharyngeal Reflux in Dysphonia Patients**
Cynthia R. Duck, JD, Louisville, KY; Heather E. Lee, MD, Rochester, NY; Liz L. Cash, PhD, Louisville, KY; Kevin R. Potts, MD, Louisville, KY; Swapna K. Chandran, MD, Louisville, KY
- 117. Computational Fluid Dynamics Evaluation of Pediatric Laryngotracheal Stenosis**
Michael E. Dunham, MD, New Orleans, LA; Tyler W. Crosby, MD, New Orleans, LA (Presenter); Keith A. Gonthier, PhD, Baton Rouge, LA; William J. Poynot, BS, Baton Rouge, LA
- 118. Laryngeal Blastomycosis in a Young Male with Cystic Fibrosis: A Case Report and Systematic Review of the Literature**
Abhinav R. ETTYREDDY, MD, Saint Louis, MO; Laura R. Marks, MD, St. Louis, MO; Joseph P. Bradley, MD, St. Louis, MO
- 119. Laryngeal Force Sensor Metrics Are Predictive of Increased Perioperative Narcotic Requirements**
Allen L. Feng, MD, Boston, MA; Alex Ciaramella, BSc, Boston, MA; Shekhar K. Gadkaree, MD, Boston, MA; Iuliu Fat, MD, Boston, MA; Phillip C. Song, MD, Boston, MA
- 120. The Heterogeneity of the Location of Optimal Medialization in Type I Laryngoplasty**
Mark R. Gilbert, MD, Nashville, TN; Sarah M. Tittman, MD, Nashville, TN; David O. Francis, MD MS, Madison, WI; Kimberly N. Vinson, MD, Nashville, TN; Alexander R. Gelbard, MD, Nashville, TN; C. Gaelyn Garrett, MD, Nashville, TN
- 121. Functional Total Laryngectomy: Impact on Quality of Life**
Scott R. Hall, MD, Phoenix, AZ; Jeffrey C. Mecham, BS, Phoenix, AZ; David G. Lott, MD, Phoenix, AZ
- 122. The Laryngeal Tongue: A Case Report and Literature Review of Laryngeal Oncocytic Papillary Cystadenoma**
William T. Hines, BS, Los Angeles, CA; William Z. Gao, MD, Los Angeles, CA; Chandnish Ahluwalia, MD, Los Angeles, CA; Michael Johns, MD, Los Angeles, CA

123. **Hemi-Laryngopharyngeal Spasm (HELPS): Defining a New Clinical Entity**
Amanda Hu, MD FRCSC, Vancouver, BC Canada; Murray D. Morrison, MD FRCSC, Vancouver, BC Canada; Christopher R. Honey, MD, DPhil, FRCSC, Vancouver, BC Canada
124. **A Safe and Effective Management Algorithm for the Critical Airway Due to Acquired Tracheal Stenosis in Adults**
Jacob B. Kahane, MD, Las Vegas, NV; Nathaniel Reeve, MD, Las Vegas, NV; Caleena Longworth, BS, Las Vegas, NV; Laruan Evans, BS, Las Vegas, NV; Robert C. Wang, MD, Las Vegas, NV
125. **Is a Voice Specific Quality of Life Questionnaire more Predictive of Laryngoscopy/Stroboscopy Findings than Common Clinical Queries?**
Elliana R. Kirsh, BM BS, Boston, MA; Thomas L. Carroll, MD, Boston, MA; Jennifer J. Shin, MD, Boston, MA
126. **Systematic Review and Meta-Analysis of Surgery for Pediatric Laryngotracheal Stenosis**
Nikita V. Kohli, MD, Brooklyn, NY; Hamid R. Arjomandi, MD, Brooklyn, NY; Richard M. Rosenfeld, MD, MPH, Brooklyn, NY; Joshua B. Silverman, MD PhD, New Hyde Park, NY
127. **Endoscopic Findings in Prepubertal Boy Choir Singers**
David R. Lee, MD, Cincinnati, OH; Barbara Weinrich, PhD, Cincinnati, OH; Wendy Leborgne, PhD, Cincinnati, OH; Stephanie Zacharias, PhD, Cincinnati, OH; Christopher Eanes, PhD, Cincinnati, OH; Alessandro De Alarcon, MD, Cincinnati, OH
128. **Laryngeal Botox Injections for Treatment of Chronic Ulcerative Laryngitis**
Sara W. Liu, MD, Cleveland, OH; Paul C. Bryson, MD, Cleveland, OH
129. **The New Normal: Subjective Voice Measures Following Type I Thyroplasty in Patients with Unilateral Vocal Fold Motion Impairment**
Emily C. Malik, MS CCC-SLP, Seattle, WA; Simon R. Brisebois, MD MSc, Sherbrooke, QC Canada (Presenter); Lisa A. D'Oyley, MS CCC-SLP, Seattle, WA; Margaret M. Naunheim, MD, Seattle, WA; Albert L. Merati, MD, Seattle, WA;
130. **Management of a Laryngeal Venous Malformation via Nd:YAG Laser and Bleomycin Sclerotherapy**
Sayan Manna, BS, New York, NY; Annika Meyer, MD, New York, NY; Alejandro Berenstein, MD, New York, NY; Mark Courey, MD, New York, NY
131. **Role of Pepsin in Epithelia Mesenchymal Transition in Subglottic Stenosis**
Alec J. McCann, BS, Milwaukee, WI; Tina L. Samuels, MS, Milwaukee, WI; Joel H. Blumin, MD, Milwaukee, WI; Nikki Johnston, PhD, Milwaukee, WI
132. **A Patient with Two Tracheas? Transglottic Stenosis Diagnosed Intraoperatively: Case Report and Review of the Literature**
Kevin A. Moore, MD, Shreveport, LA; Paul M. Weinberger, MD, Shreveport, LA
133. **Evidence of Nonresponse to OnabotulinumtoxinA in Spasmodic Dysphonia Patients**
Jamie L. Rashty, BS, Detroit, MI; Diana N. Kirke, MD, New York, NY; Andrew Blitzer, MD DDS, New York, NY
134. **Transient Bilateral Vocal Fold Paralysis after Laryngeal Mask Airway**
Saranya Reghunathan, MD, Cleveland, OH; William S. Tierney, MD MS, Cleveland, OH; Paul C. Bryson, MD, Cleveland, OH

135. **Vocal Cord Paralysis Associated with Multiple Sclerosis**
Maya M. Samman, San Francisco, CA; Christopher G. Tang, MD FACS, San Francisco, CA
136. **Primary Herpes Simplex virus Supraglottitis Presenting as Acute Airway Obstruction: Report of a Case and Review of Literature**
Sarek Alexander Shen, BS, La Jolla, CA; Aria Jafari, MD, San Diego, CA;
Peter J. Martin, MD, San Diego, CA
137. **Meige's Syndrome and Respiratory Dystonia: A Clinical Overview and Case Series**
William S. Tierney, MD, Cleveland, OH; Claudio F. Milstein, PhD, Cleveland, OH;
Paul C. Bryson, MD, Cleveland, OH

Otology/Neurotology

138. **Women in Otopathology: A Review of Women Who Have Contributed to the Study of the Human Temporal Bone**
Daniel P. Ballard, MD, Brooklyn, NY; Sandra H. Ho, MD, Brooklyn, NY;
Alisa T. Timashpolsky, MD, Brooklyn, NY; Sujana S. Chandrasekhar, MD, New York, NY
139. **Quality Improvement Initiative to Increase Access to Audiometry in the Emergency Department Setting**
Eric R. Barbarite, MD, Boston, MA; Rebecca M. Lewis, AuD PhD, Boston, MA;
Renata M. Knoll, MD, Boston, MA; Aaron K. Remenschneider, MD MPH, Boston, MA; Kevin Franck, PhD MBA, Boston, MA; Elliott D. Kozin, MD, Boston, MA
140. **Transcanal Computed Tomography View for Lateral Skull Base Endoscopic Ear Surgery**
Samuel R. Barber, MD, Tucson, AZ; Judith Kempfle, MD, Boston, MA; Danielle Trakimas, BS, Boston, MA; Aaron K. Remenschneider, MD MPH, Boston, MA;
Daniel J. Lee, MD, Boston, MA; Elliott D. Kozin, MD, Boston, MA
141. **The Anteriorly Based Tympanomeatal Flap for Management of Anterior Tympanic Membrane Perforations**
Joshua T. Blotter, BS, Salt Lake City, UT; Geoffrey C. Casazza, MD, Salt Lake City, UT;
Hilary C. McCrary, MD, Salt Lake City, UT; Albert H. Park, MD, Salt Lake City, UT
142. **Recurrent and Progressive Facial Baroparesis on Flying Relieved by Eustachian Tube Dilation**
Tracy Z. Cheng, MHS, Durham, NC; David M. Kaylie, MD MS, Durham, NC
143. **Meniere's Disease Clinical Subgroups in a US Cohort**
Jason R. Crossley, BA, Washington, DC; Adnan S. Hussaini, MD, Washington, DC;
Hung J. Kim, MD, Washington, DC; Michael Hoa, MD, Washington, DC
144. **The Role of Body Mass Index on Hearing Outcomes after Stapes Surgery**
Shekhar K. Gadkaree, MD, Boston, MA; Rachel E. Weitzman, MS, Boston, MA;
Ashley L. Miller, MD, Boston, MA; Yin Ren, MD PhD, Boston, MA; Michael J. McKenna, MD, Boston, MA; Eduardo C. Corrales, MD, Boston, MA
145. **Subjective Stapedotomy Failure despite Air Bone Gap Closure**
Michael P. Gebhard, BS, Gainesville, FL; Varun V. Varadarajan, MD, Gainesville, FL;
Doug M. Bennion, MD PhD, Iowa City, IA; Patrick J. Antonelli, MD, Gainesville, FL
146. **Characteristics and Progression of Hearing Loss in Children with Turner's Syndrome**
Alexandra O. Hamberis, BS, Charleston, SC; Charmee M. Mehta, BSPH, Charleston, SC;
James R. Dornhoffer, MD, Charleston, SC; Ted A. Meyer, MD PhD, Charleston, SC

147. **Trans-Graft T tube Tympanoplasty for Tympanic Membrane Perforation in the Setting of Granulomatosis with Polyangiitis**
Andrea L. Hanick, MD, Cleveland, OH; Thomas J. Haberkamp, MD, Cleveland, OH
148. **Pure Word Deafness after Unilateral MCA Stroke: A Case Report**
Erin A. Harvey, BS, Cincinnati, OH; Andrew J. Redmann, MD, Cincinnati, OH; Rebecca Cornelius, MD, Cincinnati, OH; Myles L. Pensak, MD, Cincinnati, OH
149. **Development of a Robotic Assisted Cochlear Implant Insertion System**
Allan M. Henslee, PhD, Iowa City, IA; Christopher R. Kaufmann, MD, Iowa City, IA; Marlan R. Hansen, MD, Iowa City, IA
150. **John J. Conley, MD Resident Research Award - Eastern Section Case Series with Chart Review of a Novel Chronic Ear Grading System**
Sandra H. Ho, MD, Brooklyn, NY; Daniel P. Ballard, MD, Brooklyn, NY; Lori A. Hoepner, DrPH MPH, Brooklyn, NY; Matthew M. Hanson, MD, Brooklyn, NY
151. **Seasonal Patterns of Benign Paroxysmal Positional Vertigo: An Institutional Experience**
Neal M. Jackson, MD, New Orleans, LA; Alexander Leo Luryi, MD, New Haven, CT; Dennis I. Bojrab, MD, Farmington Hills, MI; Michael J. Larouere, MD, Farmington Hills, MI; Seilesh Babu, MD, Farmington Hills, MI; Christopher A. Schutt, MD, Farmington Hills, MI
152. **Characteristics and Outcomes of Pediatric Vestibular Schwannomas**
Tyler A. Janz, BS, Charleston, SC; P. Ryan Camilon, MD, Boston, MA; Shaun A. Nguyen, MD, Charleston, SC; Ted A. Meyer, MD PhD, Charleston, SC; Theodore R. McRackan, MD, Charleston, SC; Paul R. Lambert, MD, Charleston, SC
153. **Cranial Suture Diastasis in Pediatric Temporal Bone Trauma**
Jacob B. Kahane, MD, Las Vegas, NV; Nathaniel Reeve, MD, Las Vegas, NV; Jordan A. Miller, BS, Las Vegas, NV; Matthew Ng, MD, Las Vegas, NV
154. **Understanding the Etiology, Pathogeneses, and Treatment of Objective Tinnitus: A Unique Case Series Presentation**
David A. Kasle, MD, New Haven, CT; Parsa P. Salehi, MD, New Haven, CT; Sina J. Torabi, BA, New Haven, CT; Douglas M. Hildrew, MD, New Haven, CT
155. **Acute Sensorineural Hearing Loss Due to Erythrocytosis with Hyperviscosity Syndrome - Case Report and a Review of the Literature**
Naushad M. Khakoo, MD, Syracuse, NY; Charles I. Woods, MD, Syracuse, NY
156. **Histopathology of the Peripheral Vestibular System Following Temporal Bone Fracture**
Renata M. Knoll, MD, Boston, MA; Reuven Ishai, MD, Boston, MA; Danielle R. Trakimas, MSE, Boston, MA; David H. Jung, MD PHD, Boston, MA; Aaron K. Remenschneider, MD MPH, Boston, MA; Elliott D. Kozin, MD, Boston, MA
157. **Multicenter Outcomes of Cochlear Implantation Following Head Trauma**
Renata Malimpensa Knoll, MD, Boston, MA; Danielle R. Trakimas, MSE, Boston, MA; Joseph B. Nadol Jr., MD, Boston, MA; David H. Jung, MD PHD, Boston, MA; Aaron K. Remenschneider, MD MPH, Boston, MA; Elliott D. Kozin, MD, Boston, MA
158. **Examining the Relationship between Angular Insertion Depth and Hearing Outcomes in Patients Receiving Cochlear Implants**
Timothy K. Koo, BA, Tampa, FL; Christopher J. Danner, MD, Tampa, FL

- 159. Clinical Significance of the Mysterious Internal Auditory Canal Diverticula**
Elliott D. Kozin, MD, Boston, MA; Dawson Wells, , Boston, MA; Jenny X. Chen, MD, Boston, MA; Katherine Reinshagen, MD, Boston, MA; Joseph B. Nadol, MD, Boston, MA; Alicia M. Quesnel, MD, Boston, MA
- 160. Rat Model of External Auditory Canal Stenosis**
Dustin M. Lang, MD, Gainesville, FL; Patrick J. Antonelli, MD, Gainesville, FL; Carolyn O. Dirain, PhD, Gainesville, FL
- 161. Hydroxyapatite Cement Cranioplasty for Translabyrinthine Acoustic Surgery: A Single Institution Experience**
Alexander L. Luryi, MD, New Haven, CT; John F. Kveton, MD, New Haven, CT; Elias M. Michaelides, MD, New Haven, CT; Christopher A. Schutt, MD, Farmington Hills, MI
- 162. Failure to Close the Gap: Concomitant Superior Canal Dehiscence in Otosclerosis Patients**
Anne K. Maxwell, MD, Los Angeles, CA; William H. Slattery III, MD, Los Angeles, CA; Mia E. Miller, MD, Los Angeles, CA
- 163. Isolated Saccular Hydrops on High Resolution Magnetic Resonance Imaging (MRI) and its Association with Full Spectrum Meniere's Disease**
Anne K. Maxwell, MD, Los Angeles, CA; Thomas Muelleman, MD, Los Angeles, CA; Akira Ishiyama, MD, Los Angeles, CA; Stellios Karnezis, MD, Los Angeles, CA; Gail Ishiyama, MD, Los Angeles, CA
- 164. Characteristics and Progression of Hearing Loss in Children with Either Patau Syndrome or Edward's Syndrome**
Charmee H. Mehta, BSPH, Charleston, SC; Alexandra O. Hamberis, BS, Charleston, SC; James R. Dornhoffer, MD, Charleston, SC; Ted A. Meyer, MD PhD, Charleston, SC
- 165. Otologic Outcomes in Children with Cleft Lip and Palate and Effects of Surgical Repair**
Charmee H. Mehta, BSPH, Charleston, SC; Alexandra O. Hamberis, BS, Charleston, SC; Forest W. Weir, MD, Cincinnati, OH; James R. Dornhoffer, MD, Charleston, SC; Yuan F. Liu, MD, Charleston, SC; Ted A. Meyer, MD PhD, Charleston, SC
- 166. Temporal Bone Abscess 11 Years after Translabyrinthine Surgery**
Jessa E. Miller, BS, Ann Arbor, MI; Emily Marchiano, MD, Ann Arbor, MI; Steven A. Telian, MD, Ann Arbor, MI
- 167. Sonic Attack on Diplomats in Cuba--A Possible Migraine Etiology**
Omid Moshtaghi, MD, San Diego, CA; Jack Birkenbeuel, BS, Irvine, CA; Autefeh Sajjadi, BS, Irvine, CA; Marlon Maducdoc, MD, Irvine, CA; Harrison W. Lin, MD, Irvine, CA; Hamid R. Djalilian, MD, Irvine, CA
- 168. The Size of Internal Auditory Canal Diverticula Is Unrelated to Degree of Hearing Loss**
Thomas J. Muelleman, MD, Los Angeles, CA; Kaley J. Pippin, MD, Kansas City, KS; Alicia M. Quesnel, MD, Boston, MA; James A. Lin, MD, Kansas City, KS; Luke N. Ledbetter, MD, Kansas City, KS; Hinrich S. Staecker, MD PhD, Kansas City, KS
- 169. Migraine Symptoms and Weather: An Investigation of Climate Triggers Using Internet Search Activity**
Stephen J. Romeo, DO, Stratford, NJ; Aykut Unsal, DO, Augusta, GA; Claudine Jurkovitz, MD MPH, Newark, DE; Zugui Zhang, PhD, Newark, DE; Michael Teixido, MD, Wilmington, DE

- 170. Combined Transmastoid and Transcanal Approach to Cochlear Implantation in CHARGE Syndrome**
Janine M. Rotsides, MD, New York, NY; Baishakhi Choudhury, MD, New York, NY;
J. Thomas Roland Jr., MD, New York, NY
- 171. The Association of Age and Race with Calvarial and Zygoma Thickness**
Mohamad Z. Saltagi, MD, Indianapolis, IN; Amit Nag, BS, Indianapolis, IN;
Cyrus C. Rabbani, MD, Indianapolis, IN; Elizabeth Schueth, BS, Indianapolis, IN;
Rick F. Nelson, MD, Indianapolis, IN
- 172. Factors Contributing to Development of Idiopathic CSF Rhinorrhea versus Otorrhea: A Retrospective Review**
Taylor B. Teplitzky, MD, Baltimore, MD; Jason M. Thomas, MD, Baltimore, MD; Prashant Raghavan, MBBS, Baltimore, MD; Andrea M. Hebert, MD, Baltimore, MD;
David J. Eisenman, MD, Baltimore, MD
- 173. Preservation of Low Frequency Hearing Following Cochlear Implantation Is Associated with Improved Word Recognition Scores**
Danielle R. Trakimas, MSE, Worcester, MA; Nayha Chopra-Tandon, BS, Worcester, MA;
Elliott D. Kozin, MD, Boston, MA; Aaron K. Remenschneider, MD MPH, Worcester, MA
- 174. Timing of Sequential Cochlear Implantation (CI) Influences Performance of Initial CI in Pediatric Patients**
Danielle R. Trakimas, MSE, Worcester, MA; Julia Buirkle, BS, Worcester, MA;
Elliott D. Kozin, MD, Boston, MA; Aaron K. Remenschneider, MD MPH, Worcester, MA
- 175. Frances E. LeJeune Sr., MD Resident Research Award - Southern Section Neonatal Abstinence Syndrome and Infant Hearing Assessment: A Kids' Inpatient Database (KID) Review**
Adam J. Van Horn, MD, Lexington, KY; Liza M. Creel, PhD MPH, Louisville, KY;
Alexander S. Hines, BA, Lexington, KY; Matthew L. Bush, MD PhD FACS, Lexington, KY
- 176. Cochlear Basal Turn Dehiscence Width in Unrecognized Perilymph Gushers**
Varun V. Varadarajan, MD, Gainesville, FL; Orrin L. Dayton, MD, Gainesville, FL;
Reordan O. De Jesus, MD, Gainesville, FL; Patrick J. Antonelli, MD, Gainesville, FL
- 177. Assessing Laterality and Location of External Auditory Exostoses Using Computed Tomography**
David J. Weiland, BS, Irvine, CA; Hossein Mahboubi, MD, Irvine, CA;
Jack L. Birkenbeuel, BS, Irvine, CA; Dillon C. Cheung, BS, Irvine, CA; Harrison W. Lin, MD, Irvine, CA; Hamid R. Djalilian, MD, Irvine, CA
- 178. Skull Base Osteomyelitis Complicated by Petrous Internal Carotid Artery Blowout**
Rachel E. Weitzman, MS, Boston, MA; Anuraag S. Parikh, MD, Boston, MA;
Shekhar K. Gadkaree, MD, Boston, MA; C. Eduardo Corrales, MD, Boston, MA
- 179. Embryonal Rhabdomyosarcoma of the Middle Ear and Mastoid**
Candice B. Yip, MD, Newark, NJ; Yu-Lan M. Ying, MD, Newark, NJ

Pediatric Otolaryngology

- 180. A Review of Pediatric Laryngeal Tumors and Analysis of the Demographics, Management, and Survival of Pediatric Laryngeal Squamous Cell Carcinoma**
Alexandra M. Forsyth, BA, Boston, MA; Philip R. Camilon, MD, Boston, MA;
Jessica R. Levi, MD, Boston, MA

- 181. Facelift Incision for Parotidectomy in Pediatric Nontuberculous Mycobacterial Lymphadenitis**
Rebecca A. Compton, MD, Boston, MA; Andrew R. Scott, MD, Boston, MA;
Mark A. Vecchiotti, MD, Boston, MA
- 182. Jugular Bulb Height Is Unrelated to Isolated Unilateral Congenital Aural Atresia**
Tyler R. Halle, MD, Atlanta, GA; Amanda S. Corey, MD, Atlanta, GA; N. Wendell Todd, MD MPH, Atlanta, GA
- 183. Population Based Survival Analysis of Pediatric Tonsillar Malignancies and Review of a Rare Case**
Tyler A. Janz, BS, Orlando, FL; Ramamoorthy Nagasubramanian, MD, Orlando, FL;
Julie L. Wei, MD, Orlando, FL
- 184. Prevalence of Prescription Medication Use in Preschool Aged Children Seen in Pediatric Otolaryngology**
Friederike S. Luetzenberg, BS, Orlando, FL; Timothy M. Maul, PhD, Orlando, FL;
Julie L. Wei, MD, Orlando, FL
- 185. Diagnosis of Otitis Media with Effusion with Optical Tympanometry**
Hossein Mahboubi, MD MPH, Irvine, CA; Autefeh Sajjadi, MD, Irvine, CA;
David T. Chang, MD, Irvine, CA; Nguyen S. Pham, MD, Irvine, CA; Elliot Botvinick, PhD, Irvine, CA; Hamid R. Djalilian, MD, Irvine, CA
- 186. Ear Mass in Pediatric Patient with Leukocytosis: A Case Report and Review of the Literature**
Weston L. Niermeyer, BS, Columbus, OH; Scott R. Smith, BA, Columbus, OH;
Patrick C. Walz, MD, Columbus, OH
- 187. Drivers of Prolonged Length of Stay in Children with Parotitis**
Nirali M. Patel, BA, Newark, NJ; Aparna Govindan, BA, Newark, NJ; Lea C. George, BS, Newark, NJ; Amy P. Bansal, MD, Newark, NJ; Evelyne Kalyoussef, MD FACS, Newark, NJ
- 188. Regional Influences on the Management of Pediatric Deep Neck Abscesses**
Nirali M. Patel, BA, Newark, NJ; Aparna Govindan, BA, Newark, NJ; Lea C. George, BS, Newark, NJ; Sana H. Siddiqui, BA, Newark, NJ; Amy P. Bansal, MD, Newark, NJ; Evelyne Kalyoussef, MD FACS, Newark, NJ
- 189. Improving Interspecialty Communication in the Treatment of Pediatric Craniofacial and Skull Base Tumors Using Personalized 3D Printed Models**
Sanjay P. Prabhu, MBBS, Boston, MA; Natasha D. Dombrowski, BA, Boston, MA (Presenter); Salim Afshar, DMD MD, Boston, MA; Carolyn R. Rogers-Vizena, MD, Boston, MA; Peter Weinstock, MD PhD, Boston, MA; Reza Rahbar, DMD MD, Boston, MA
- 190. Revision Surgery Rates among Children Receiving Percutaneous Bone Conduction Implants**
Patricia L. Purcell, MD MPH, Toronto, ON Canada; Karen A. Gordon, PhD CCC-A, Toronto, ON Canada; Blake C. Papsin, MD MSc, Toronto, ON Canada;
Sharon L. Cushing, MD MSc, Toronto, ON Canada
- 191. Shirley Baron Resident Research Award - Western Section
The Validation of Laryngomalacia Classification Systems: A Multi-Institutional Agreement Study**
Shanmugappiriya Ummaiyal Sivarajah, MD, Edmonton, AB Canada; Andre Isaac, MD MSc FRCSC, Edmonton, AB Canada; Deepak Mehta, MD, Houston, TX; Paul Hong, MD FRCSC, Halifax, NS Canada; Yaser Alrajhi, MD FRCSC, Edmonton, AB Canada; Hamdy El-Hakim, MB ChB FRCS, Edmonton, AB Canada

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Impact of Multidisciplinary Rounds within a Pediatric Otolaryngology Unit

Matthew M. Smith, MD, Cincinnati, OH; Douglas C. Von Allmen, MD, Cincinnati, OH;

Michelle M. Coleman, MSN, Cincinnati, OH; Anna Sheets, DNP, Cincinnati, OH;

Emily E. Donoghue, BSN, Cincinnati, OH; Alessandro de Alarcon, MD MPH, Cincinnati, OH