TRIOLOGICAL SOCIETY 120th ANNUAL MEETING
GRAND HYATT, SAN DIEGO, CALIFORNIA
APRIL 28-29, 2017

FRIDAY, APRIL 28, 2017

7:00 - 7:50 **Business Meeting (Triological Fellows only)**
New Fellow Ceremony and Reception

8:00 - 9:20 SCIENTIFIC GENERAL SESSION
SEAPORT F-G-H

8:05 **Welcome and Introductions by President**
Charles W. Beatty, MD FACS, Rochester, MN

Presidential Citations
Kerry D. Olsen, MD FACS, Rochester, MN
John T. McElveen Jr., MD, Raleigh, NC
Juan Manuel Garcia, MD, Bogota, Colombia, SA

Introduction of Guest of Honor and Remarks
H. Bryan Neel, III, MD PhD FACS, Rochester, MN

8:25 **Presidential Address**
Just Say "Yes"!
Charles W. Beatty, MD FACS, Rochester, MN

8:40 **Introduction of 2017 Thesis Award Presenters**
By Dana M. Thompson, MD FACS, Chicago, IL

8:41 **Harris P. Mosher Thesis Award Presentation**
Evaluation of the Natural History of Patients Who Aspirate
Jonathan M. Bock, MD, Milwaukee, WI

8:48 **Edmund Prince Fowler Thesis Award Presentation**
An Animal Model of Deep Brain Stimulation (DBS) for Treating Tinnitus--A Proof of Concept Study
Syed F. Ahsan, MD FACS, Irvine, CA

8:55 **Joseph H. Ogura, MD Annual Lecture**
Lessons Learned While Following the Metamorphosis of Oropharyngeal Cancer
Eric J. Moore, MD FACS, Rochester, MN
Introduction by Charles W. Beatty, MD FACS, President

9:20 - 9:45 ***Break with Exhibitors/View Posters***

9:45 - 12:00 CONCURRENT SCIENTIFIC SESSIONS

CONCURRENT SESSION 1 - HEAD AND NECK/LARYNGOLOGY

SEAPORT F-G-H

9:45 - 10:25 **UPDATES IN HEAD AND NECK CANCER MANAGEMENT**

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

Panelists: Dennis H. Kraus, MD FACS, New York, NY
AJCC Staging System Changes: What and Why?
J. Scott Magnuson, MD, Celebration, FL
Robotics: Advances and Applications
Ravindra Uppaluri, MD FACS, St. Louis, MO
Immunotherapy-Emerging Roles in Head and Neck Cancer Therapy

Moderators: Albert L. Merati, MD FACS, Seattle, WA
Brett A. Miles, MD DDS FACS, New York, NY

10:25 **Thyroid Cancer Clinical Trials in the United States: Are We Maximizing Impact?**
Alan Hsieh, BSc, Boston, MA; Charles Murchison, MD, Boston, MA; Anand Devaiah, MD, Boston, MA

10:32 **Morbidity and Mortality of Oncologic Resections in Octogenarian and Older Head and Neck Cancer Patients**
Heidi E. L'Esperance, MD, St. Louis, MO; Jay F. Piccirillo, MD FACS, St. Louis, MO; Dorina Kallogjeri, MD MPH, St. Louis, MO; Shahnawaz Yousef, BS, Kansas City, MO; Jason T. Rich, MD, St. Louis, MO

10:39 **EGFR Detection in Saliva as an Easy Diagnostic and Prognostic Tool in Oral Squamous Cell Cancer**
Cesare Piazza, MD, Brescia, Italy; Alberto Paderno, MD, Brescia, Italy; Laura Zanotti, MD, Brescia, Italy; Elisabetta Bandiera, MD, Brescia, Italy; Francesca Del Bon, MD, Brescia, Italy; Antonella Ravaggi, MD, Brescia, Italy

10:46 **Clinical Characteristics and Outcomes for Salivary Gland Malignancies in Children: An Update from the SEER Database**
Shannon N. Radomski, BA, Washington, DC; Sarah M. Dermody, BS, Washington, DC; Earl H. Harley, MD, Washington, DC

10:53 **Health Disparities among Adults with Voice Problems in the United States**
Kevin Hur, MD, Los Angeles, CA; Sheng Zhou, BS, Los Angeles, CA; Michael M. Johns, MD, Los Angeles, CA

11:00 **Repairing the Vibratory Vocal Fold**
Jennifer L. Long, MD PhD, Los Angeles, CA

11:07 **Early Injection Laryngoplasty for Unilateral Vocal Fold Paralysis Decreases the Risk of Thyroplasty: A Systematic Review and Meta-Analysis**
Peter M. Vila, MD MSPH, St. Louis, MO; Neel K. Bhatt, MD, St. Louis, MO; Randall C. Paniello, MD PhD, St. Louis, MO

11:14 **Q&A**

11:20 - 12:00 **DYSPHONIA IN PATIENTS WITHOUT LESIONS OR MOTION ABNORMALITIES**
Moderator: Clark A. Rosen, MD FACS, Pittsburgh, PA
Panelists: Mark S. Courey, MD, New York, NY
Norman D. Hogikyan, MD FACS, Ann Arbor, MI
Michael M. Johns III, MD, Los Angeles, CA

12:00 ***Adjourn***

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

CONCURRENT SESSION 2
OTOLOGY/NEUROTOLOGY AND PEDIATRIC OTOLARYNGOLOGY
SEAPORT D-E

Moderators: Karen J. Enright, MD PhD, Detroit, MI
Howard W. Francis, MD, Baltimore, MD

9:45 **Classification of Endoscopic Ear Surgery**
Razan A. Basonbul, MBBS MPH, Boston, MA; Elliott D. Kozin, MD, Boston, MA; Samuel R. Barber, MS, Boston, MA; Alejandro C. Rivas, MD, Nashville, TN; Daniel J. Lee, MD FACS, Boston, MA; Michael S. Cohen, MD, Boston, MA

9:52 **Eustachian Tube Reconstruction for the Treatment of Patulous Eustachian Tube**
Elias M. Michaelides, MD, New Haven, CT; Madeline A. Coulter, BA, Farmington, CT (Presenter)

9:59 **The Impact of Obesity in Vestibular Schwannoma Surgery: A Parallel Analysis of the NIS and NSQIP Databases**
Jacob S. Brady, BA, Newark, NJ; Shreya Patel, BS, Newark, NJ; Omar M. Mohamed, BA, Newark, NJ; Soly Baredes, MD, Newark, NJ; Evelyne Kalyoussef, MD, Newark, NJ; Yu-Lan Mary Ying, MD, Newark, NJ

10:06 **A Systematic Review of Temporal Bone Trauma Causing Facial Nerve Injury: A Suggestion for Minimum Reporting Guidelines**
Prasanth Pattisapu, MD MPH, Houston, TX; Matthew L. Carlson, MD, Rochester, MN; Malia S. Gresham, BA, Houston, TX; Tyler J. McElwee, BS, Houston, TX; Jeffrey T. Vrabec, MD, Houston, TX; Alex D. Sweeney, MD, Houston, TX

10:13 **Otologic Biomarkers: Early Detection of Hearing Loss in a Cisplatin Ototoxicity Model**
James G. Naples, MD, Farmington, CT; Robert Cox, BS, Farmington, CT; Gregory S. Bonaiuto, MD, Farmington, CT; Kourosh Parham, MD PhD, Farmington, CT

10:18 **Q&A**

10:25 - 11:05 **EVALUATION AND MANAGEMENT OF A CHILD WITH SENSORINEURAL HEARING LOSS - WHAT'S NEW?**
Moderator: Bradley W. Kesser, MD, Charlottesville, VA
Panelists: John H. Greinwald Jr., MD, Cincinnati, OH
Margaret A. Kenna, MD FACS, Boston, MA
Robert C. O'Reilly, MD FACS, Philadelphia, PA
Harold C. Pillsbury, MD, FACS, Chapel Hill, NC

Moderators: Daniel I. Choo, MD FACS, Cincinnati, OH
Kristina W. Rosbe, MD FACS, San Francisco, CA

11:05 **Management Considerations for Octo- and Nonagenarian Cochlear Implant Recipients**
Harold C. Pillsbury, MD, Chapel Hill, NC; English R. King, AuD, Chapel Hill, NC; Ellen J. Deres, AuD, Chapel Hill, NC; Andrea L. Bucker, AuD, Chapel Hill, NC; Sarah A. McCarthy, AuD, Chapel Hill, NC; Margaret T. Dillon, AuD, Chapel Hill, NC

11:12 **Trends in Socioeconomic, Race, and Insurance Disparities of Pediatric Cochlear Implantation over a 15 Year Period**
Alex J.F. Tampio, MD, Syracuse, NY; Ronald J. Schroeder, MD, Syracuse, NY; John Boyle, BS, Syracuse, NY; Brian D. Nicholas, MD, Syracuse, NY

11:19 **Predictive Factors for Short and Long Term Functional Hearing Preservation in Cochlear Implantation**
George B. Wanna, MD, Nashville, TN; Brendan P. O'Connell, MD, Nashville, TN (Presenter); David O. Francis, MD, Nashville, TN; Rene H. Gifford, PhD, Nashville, TN; Jacob B. Hunter, MD, Nashville, TN; David S. Haynes, MD, Nashville, TN

11:26 **Linguistic and Behavioral Outcomes of Bilingual Children with Hearing Loss**
Neelaysh Vukkadala, BS, San Francisco, CA; Cimeran Kapur, BA, San Francisco, CA; Danielle Perez, BS, San Francisco, CA; Dylan Chan, MD PhD, San Francisco, CA

11:33 **Blood Transfusion in Children with Sickle Cell Disease Undergoing Tonsillectomy**
Carlyn M. Atwood, MD, Charleston, SC; Sharon H. Gnagi, MD, Charleston, SC; Shayla M. Bergmann, MD, Charleston, SC; Ronald J. Teufel, MD, Charleston, SC; Shaun A. Nguyen, MD, Charleston, SC; David R. White, MD, Charleston, SC

11:40 **Diagnosis and Treatment of Paradoxical Vocal Fold Motion in Infants**
Ashley P. O'Connell Ferster, MD, Hershey, PA; Tom Shokri, MD, Hershey, PA; Michele M. Carr, MD, Hershey, PA

11:47 **National Admission Patterns and Complication Rates for Thyroglossal Duct Cyst Surgery**
Sharon H. Gnagi, MD, Charleston, SC; Darrell T. Wright, MD, Charleston, SC; Clarice S. Clemmens, MD, Charleston, SC; David R. White, MD, Charleston, SC

11:54 **Changes in Management Trends for Lymphatic Malformations in the United States from 1997-2012**
Carlyn M. Atwood, MD, Charleston, SC; Sharon H. Gnagi, MD, Charleston, SC; Ronald J. Teufel, MD, Charleston, SC; Shaun A. Nguyen, MD, Charleston, SC; David R. White, MD, Charleston, SC

12:01 **Q&A**

12:05 ***Adjourn***

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

SATURDAY, APRIL 29, 2017

7:00 - 7:50 **Annual Business Meeting (Triological Fellows only) – Seaport F-G-H**

7:55 **Welcome by President**
Charles W. Beatty, MD FACS, Rochester, MN

8:00 - 5:00 SCIENTIFIC SESSIONS
SEAPORT F-G-H

8:00 - 9:50 FACIAL PLASTIC/RECONSTRUCTIVE SURGERY AND SLEEP MEDICINE

8:00 - 8:35 **THE AGING FACE - WHAT'S REAL AND WHAT'S HYPE?**
Moderator: Lisa E. Ishii, MD MHS, Baltimore, MD
Panelists: J. Madison Clark II, MD FACS, Chapel Hill, NC
Stephen S. Park, MD, Charlottesville, VA
Travis T. Tollefson, MD MPH FACS, Sacramento, CA

Moderators: David B. Hom, MD FACS, Cincinnati, OH
Erica R. Thaler, MD FACS, Philadelphia, PA

8:35 **Tobacco Exposure and Biomarkers of Wound Healing in Head and Neck Surgical Wounds**
Amy Anne D. Lassig, MD, Minneapolis, MN; Anne M. Joseph, MD MPH, Minneapolis, MN; Bevan Yueh, MD MPH, Minneapolis, MN; Bruce R. Lindgren, MS, Minneapolis, MN; Joan E. Bechtold, PhD, Minneapolis, MN

8:42 **Facial Fractures in Helmeted and Non-Helmeted Bicycle Trauma**
Tania Benjamin, BS, San Francisco, CA; P. Daniel Knott, MD, San Francisco, CA; Nancy K. Hills, PhD, San Francisco, CA; Rahul Seth, MD, San Francisco, CA

8:49 **Is There a Good Side? The Role of Laterality in Facial Paralysis Severity Perceptions**
Jason C. Nellis, MD, Baltimore, MD; Masaru Ishii, MD PhD, Baltimore, MD; Patrick J. Byrne, MD MBA, Baltimore, MD; Kofi D.O. Boahene, MD, Baltimore, MD; Jacob K. Dey, MD, Rochester, MN; Lisa E. Ishii, MD MHS, Baltimore, MD

8:56 **Workplace Facial Trauma 2004-2014 - Progress Made, Progress Pending**
Joshua E. Romero, MD, Syracuse, NY; Amar C. Suryadevara, MD, Syracuse, NY

9:03 **Comparison of Manual Reduction, Arch Bars, and Other Maxillomandibular Fixation Techniques for Mandibular Angle Fractures**
Ronald J. Schroeder, MD, Syracuse, NY; Kaete A. Archer, MD, Melbourne, FL; Amar C. Suryadevara, MD, Syracuse, NY; Robert M. Kellman, MD, Syracuse, NY

9:10 **Q&A**

9:15 **Voice and Swallowing Outcomes Following Hypoglossal Nerve Stimulation for Obstructive Sleep Apnea**
Andrew J. Bowen, BS, Cleveland, OH; Paul C. Bryson, MD, Cleveland, OH; Michael S. Benninger, MD, Cleveland, OH; Douglas K. Trask, MD PhD, Cleveland, OH; Alan H. Kominsky, MD, Cleveland, OH

9:22 **Correlation of Friedman Tongue Position and Cone Beam Computed Tomography (CBCT) Results in Patients with Obstructive Sleep Apnea**
Rebecca S. Harvey, MD, Ann Arbor, MI; Louise M. O'Brien, PhD, Ann Arbor, MI; Sharon Aronovich, DMD, Ann Arbor, MI; Anita V. Shelgikar, MD, Ann Arbor, Mi; John M. Palmisano, BS, Ann Arbor, MI; Jeffrey J. Stanley, MD, Ann Arbor, MI

9:29 **The Association of Palatine Tonsil Size and Obstructive Sleep Apnea in Adults**
Sebastian M. Jara, MD, Seattle, WA; Edward M. Weaver, MD MPH, Seattle, WA

9:36 **Effect of Prior Airway Surgery on Outcomes Following Implantation of Hypoglossal Nerve Stimulator for Obstructive Sleep Apnea**
Ahmad F. Mahmoud, MD, Philadelphia, PA; Erica R. Thaler, MD, Philadelphia, PA

9:43 **Q&A**

9:48 - 10:20 ***Break with Exhibitors/View Posters***

10:20 - 12:00 ALLERGY/RHINOLOGY

10:20 - 11:05 **SINUSITIS MANAGEMENT OF ATYPICAL RHINOSINUSITIS**
Moderator: Peter H. Hwang, MD FACS, Stanford, CA
Panelists: Alexander G. Chiu, MD, Kansas City, KS
Ralph B. Metson, MD FACS, Boston, MA
Richard R. Orlandi, MD FACS, Salt Lake City, UT
Brent A. Senior, MD FACS, Chapel Hill, NC

Moderators: Melissa A. Pynnonen, MD Msc, Ann Arbor, MI
Timothy L. Smith, MD MPH FACS, Portland, OR

11:05 **Baseline Sleep Dysfunction Increases Likelihood of Escalation to Endoscopic Sinus Surgery after Continued Medical Therapy for Chronic Rhinosinusitis**
Adam S. DeConde, MD, San Diego, CA; Jess C. Mace, MPH CCRP, Portland, OR; Vijay R. Ramakrishnan, MD, Aurora, CO; Jeremiah A. Alt, MD PhD, Salt Lake City, UT; Timothy L. Smith, MD MPH, Portland, OR

11:12 **Facilitating Early Diagnosis in Invasive Fungal Sinusitis: A Retrospective Study of Predictive Factors**
Elizabeth M. Nichols, BS, Baltimore, MD; Liliana E. Ein, MD, Miami, FL; Amal I. Isaiah, MD, Baltimore, MD; Jeffrey S. Wolf, MD, Baltimore, MD

11:19 **Revision Rates Following Endoscopic Sinus Surgery**
Nathan R. Stein, BS, La Jolla, CA; Aria Jafari, MD, San Diego, CA (Presenter); Adam S. DeConde, MD, San Diego, CA

11:25 **Anatomic Comparison of the Main Nasal Cavity and Paranasal Sinuses before and after Maximal Medical Therapy for Chronic Rhinosinusitis**
Satyan B. Sreenath, MD, Chapel Hill, NC; Julia S. Kimbell, PhD, Chapel Hill, NC; Tatyana E. Fontenot, MD, Chapel Hill, NC; Charles S. Ebert Jr., MD MPH, Chapel Hill, NC; Brent A. Senior, MD, Chapel Hill, NC; Adam M. Zanation, MD, Chapel Hill, NC

11:32 **What Drives Productivity Costs in Chronic Rhinosinusitis: A SNOT-22 Subdomain Analysis**
Naweed I. Chowdhury, MD, Portland, OR; Jess C. Mace, MPH, Portland, OR; Timothy L. Smith, MD MPH, Portland, OR; Luke R. Rudmik, MD MSc, Calgary, AB Canada

11:39 **Serum Periostin as a Biomarker for Chronic Rhinosinusitis**
Alice Z. Maxfield, MD, Boston, MA; Lukas D. Landegger, MD, Boston, MA; Christopher D. Brook, MD, Boston, MA; Ashton E. Lehmann, MD, Boston, MA; Konstantina M. Stankovic, MD PhD, Boston, MA; Ralph B. Metson, MD, Boston, MA

11:46 **Fungal Protease and Generated Cleavage Products as an Inducer of IL-33 Expression in Chronic Rhinosinusitis with Nasal Polyps**
Caroline J. Padro Dietz, PhD, Houston, TX; Amber U. Luong, MD PhD, Houston, TX (Presenter); Ryan P. Drake, BS, Houston, TX; David B. Corry, MD, Houston, TX; William C. Yao, MD, Houston, TX; Martin J. Citardi, MD, Houston, TX

11:53 **Q&A**

12:00 - 1:00 ***Lunch Break***

1:00 - 5:00 CLINICAL FUNDAMENTALS AND GENERAL OTOLARYNGOLOGY

1:00 - 1:50 **OPTIMIZING OUTCOMES AFTER TONSILLECTOMY**
Moderator: Scott C. Manning, MD FACS, Seattle, WA
Panelists: Emily F. Boss, MD, Baltimore, MD
Kenny H. Chan, MD FACS, Aurora, CO
Charles M. Myer III, MD FACS, Cincinnati, OH
Julie L. Wei, MD, Orlando, FL

Moderators: C. Ron Cannon, MD FACS, Jackson, MS
Richard W. Waguespack, MD FACS, Birmingham, AL

1:50 **Interdisciplinary Assessment of Tracheostomy Care Knowledge: A Quality Improvement Project**
Ruth J. Davis, BS, Cleveland, OH; Swathi Appachi, MD, Cleveland, OH (Presenter); Paul C. Bryson, MD, Cleveland, OH

1:57 **Prevalence of Work Related Musculoskeletal Symptoms among Otolaryngologists by Subspecialty: A National Survey**
Thuy-Van T. Ho, MD, Kansas City, KS; Kevin J. Sykes, PhD, Kansas City, KS; Shannon M. Kraft, MD, Kansas City, KS

2:04 **Expeditious Emergency Center Referral Pathway Improves Patient Access to Otolaryngology Care**
Jeffrey D. Johnson, MD, Houston, TX; Ibrahim T. Alava, MD, Houston, TX

2:11 **Frailty, Hospital Volume, and Failure to Rescue after Head and Neck Cancer Surgery**
Carrie L. Nieman, MD MPH, Baltimore, MD; C. Matthew Stewart, MD PhD, Baltimore, MD; David W. Eisele, MD, Baltimore, MD; Peter J. Pronovost, MD PhD, Baltimore, MD; Christine G. Gourin, MD MPH, Baltimore, MD

2:18 **Disparate Medicaid Payments: A National Study of Otolaryngologist Reimbursement**
Joseph H. Conduff, BS, Richmond, VA; Daniel H. Coelho, MD, Richmond, VA

2:25 **Patient Cost Savings Associated with an Outpatient Otolaryngology Telemedicine Clinic**
Ramez H.W. Philips, BS, Columbus, OH; Nolan B. Seim, MD, Columbus, OH; Laura A. Matrka, MD, Columbus, OH; Brittany R. Locklear, MS RRT, Columbus, OH; Mark E. Inman, MBA, Columbus, OH; Garth F. Essig, MD, Columbus, OH

2:32 **Development of a Synchronous Otolaryngology Telemedicine Clinic: A Prospective Study to Assess Fidelity and Viability**
Nolan B. Seim, MD, Columbus, OH; Ramez H.W. Philips, BS, Columbus, OH; Laura A. Matrka, MD, Columbus, OH; Brittany Locklear, MS RRT, Columbus, OH; Mark Inman, MBA, Columbus, OH; Garth F. Essig, MD, Columbus, OH

2:39 **Q&A**

2:45 - 3:15 ***Break with Exhibitors/View Posters***

3:15 - 4:05 **TEACHING MILLENNIALS: WHAT WORKS AND WHAT DOES NOT**
Moderator: Stacey T. Gray, MD FACS, Boston, MA
Panelists: Kevin Fung, MD FRCS FACS, London, ON
Judith E.C. Lieu, MD MSPH, St. Louis, MO
Anna H. Messner, MD, Stanford, CA
Mark K. Wax, MD FACS, Portland, WA

Moderators: Robert A. Buckmire, MD, Chapel Hill, NC
Ellen S. Deutsch, MD, Philadelphia, PA

4:05 **WITHDRAWN -- Variation in Training: Evaluating Differences in Otolaryngology Residents Surgical Case Experience**
Muhammad Abbas Abid, MD, Baltimore, MD; Charles W. Cummings, MD, Baltimore, MD; Sukgi S. Choi, MD, Pittsburg, PA; Nasir I. Bhatti, MD, Baltimore, MD

4:12 **Impact of a Federal Healthcare Consortium on Otolaryngology Residency Training**
Alexander E. Lanigan, MD, San Antonio, TX; Mark Spaw, BS, Kansas City, MO; Christopher Donaghe, San Antonio, TX; Joseph Brennan, MD, San Antonio, TX

4:19 **Craniomaxillofacial Trauma Experience in Otolaryngology Residency: A National Survey of Residency Program Directors**
Melissa S. Oh, BA, Atlanta, GA; Anita B. Sethna, MD, Atlanta, GA; Oswaldo A. Henriquez, MD, Atlanta, GA

4:26 **Simulation as a Tool for Increasing Medical Student Interest in and Understanding of Otolaryngology**
Lara K. Reichert, MD MPH, Galveston, TX; Daniel Z. Farishta, BS, Galveston, TX; Kevin Lin, BS, Galveston, TX; Harold S. Pine, MD, Galveston, TX; Susan D. McCammon, MD, Galveston, TX

4:33 **Social Media Presence of Otolaryngology Journals: The Past, Present, and Future**
Kevin Wong, BA, Boston, MA; Varun Thakkar, BA, Boston, MA; Jessica R. Levi, MD, Boston, MA

4:40 **Otolaryngology Resident Education and the Core Competencies: A Systematic Review**
Erynne A. Faucett, MD, Tucson, AZ; Jonnae Y. Barry, MD, Tucson, AZ; Hilary C. McCrary, MPH, Tucson, AZ; Ahlam A. Saleh, MD, Tucson, AZ; Audrey B. Erman, MD, Tucson, AZ; Stacey L. Ishman, MD MPH, Cincinnati, OH

4:47 **Proliferation and Contributions of National Database Studies**
Rahul S. Subbarayan, MD, Kansas City, KS; Lindsey Koester, MD, Pittsburgh, PA; Jennifer Villwock, MD, Kansas City, KS

4:54 **Q&A**

4:59 **Introduction of President-Elect**
Mark Persky, MD FACS, New York, NY
By Charles W. Beatty, MD FACS, Rochester, MN

Allergy/Rhinology

H1. **Invasive Fungal Sinusitis in a Patient with Intranasal Opiate Abuse**
Suhyla Alam, MD, Richmond, VA; Scott A. Hardison, MD, Richmond, VA; Joseph D. Jakowski, MD, Richmond, VA; Evan R. Reiter, MD, Richmond, VA

H2. **Prevalence of Clinically Significant Worsening after Endoscopic Sinus Surgery**
Adam S. DeConde, MD, San Diego, CA; Jess C. Mace, MPH, Portland, OR; Jeremiah A. Alt, MD PhD, Salt Lake City, UT; Claire Hopkins, MD, London, UK; Zachary M. Soler, MD MSc, Charleston, SC; Timothy L. Smith, MD MPH, Portland, OR

H3. **The Effects of Chronic Rhinosinusitis on Sniff Inspiratory Muscle Strength**
Dennis O. Frank-Ito, PhD, Durham, NC; Jihong Wu, MD, Chapel Hill, NC; Saikat Basu, PhD, Chapel Hill, NC; Julia S. Kimbell, PhD, Chapel Hill, NC; Brent A. Senior, MD, Chapel Hill, NC

H4. **Recovery in a Grave Case of Rhinocerebral Mucormycosis**
Edmund B. Haywood, MD, Temple, TX; David W. Clark, MD, Temple, TX

H5. **Primitive Neuroectodermal Tumors (PNETs) of the Nose: A Case Report and a Literature Review**
Ahmed Awad Hussein, MD, Cairo, Egypt; Hussam Mohamed Elbosraty, MD, Cairo, Egypt

H6. **Management Strategies for Recurrent Acute Rhinosinusitis**
Jiahui Lin, MD, New York, NY; Ashutosh Kacker, MD, New York, NY

H7. **A Multicenter Study on Endoscopic Management of Esthesioneuroblastoma**
Takayuki Nakagawa, MD PhD, Kyoto, Japan; Satoru Kodama, MD PhD, Yufu, Japan; Masayoshi Kobayashi, MD PhD, Tsu, Japan; Tetsuji Sanuki, MD PhD, Kumamoto, Japan; Shuho Tanaka, MD PhD, Tsukuba, Japan; Koichi Omori, MD PhD, Kyoto, Japan

H8. **Seasonal Variation of Baseline Chronic Rhinosinusitis Symptomatology**
Katie M. Phillips, MD, Boston, MA; Lloyd P. Hoehle, BA BS, Boston, MA; Regan W. Bergmark, MD, Boston, MA; David S. Caradonna, MD DMD, Boston, MA; Stacey T. Gray, MD, Boston, MA; Ahmad R. Sedaghat, MD PhD, Boston, MA

H9. **Malignant Fibrosarcoma of the Maxillary Sinus Masquerading as an Angioectatic Nasal Polyp: Case Report and Review of the Literature**
Jordan W. Rawl, MD, Galveston, TX; Bailey A. LeConte, BS, Galveston, TX; Suimin M. Qiu, MD, Galveston, TX; Mohamad R. Chaaban, MD, Galveston, TX

H10. **Endoscopic Balloon Eustachian Tuboplasty (BET) for Treatment of Otitis Media with Effusion (OME) in Radiated Patients**
Reza Vaezeafshar, MD, Palo Alto, CA; Jennifer Y. Lee, MD, Palo Alto, CA

H11. **Progression of a Frontal Sinus Pneumocele in a Patient with Recurrent Nasal Polyps**
Jason L. Yu, MD, Philadelphia, PA; Erica Thaler, MD, Philadelphia, PA

Clinical Fundamentals/General

H12. **Allometric Quantification of Respiratory Minute Ventilation for Chronic Rhinosinusitis Subjects Using Body Mass**
Saikat Basu, PhD, Chapel Hill, NC; Julia S. Kimbell, PhD, Chapel Hill, NC; Dennis O. Frank-Ito, PhD, Durham, NC; Jihong Wu, MD, Chapel Hill, NC; Brent A. Senior, MD FACS, Chapel Hill, NC

H13. The Use of Smartphone Adapters in Otolaryngology Residencies: A Survey of Program Directors
Caroline M. Bockus, BS, Washington, DC; Johnny P. Mai, MD, Washington, DC (Presenter); Philip E. Zapanta, MD, Washington, DC

H14. Penetrating Pharyngeal Trauma: A Unique Case Presentation
Carolyn A. Brydon, MD, Albany, NY; Shilpa Darivemula, BS, Albany, NY; Kristina Piastro, MD, Albany, NY; Maria Brown, MD, Albany, NY; Christina Lee, MD, Albany, NY

H15. Quality of Preclinical Medical Student Otolaryngology Shadowing Experiences in the Operating Room
Yi Cai, AB, New York, NY; Kyle Zuniga, BS, New York, NY; Joseph Haddad Jr., MD, New York, NY

H16. MRSA Bacterial Laryngitis: A Chronic Problem
Patrick S. Carpenter, MD, Salt Lake City, UT; Katherine A. Kendall, MD, Salt Lake City, UT

H17. A Diagnostic Dilemma: Sinonasal Intestinal Type Adenocarcinoma in a Patient with Peutz-Jeghers Syndrome
Divya Aditi Chari, MD, San Francisco, CA; Margaret Naunheim, MD, San Francisco, CA; Ivan H. El-Sayed, MD, San Francisco, CA

H18. Community Acquired Methicillin Resistant Staphylococcus Aureus Abscesses of the Head and Neck: Comparing Populations
Wesley L. Davison, MD, New York, NY; Luke A. Donatelli, MD, New York, NY; Aaron N. Pearlman, MD, New York, NY

H19. Patient Positioning during In-Office Otologic Procedures Impacts Physician Ergonomics
William M. DeMayo, BS, Pittsburgh, PA; Nandini Govil, MD MPH, Pittsburgh, PA; Barry E. Hirsch, MD, Pittsburgh, PA; Andrew A. McCall, MD, Pittsburgh, PA

H20. Zitches vs. Stitches in a Rodent Model
Benjamin F. Erhardt, MD, Columbia, MO; Kaitlin K. July, BS, Columbia, MO; Eric J. Johannesen, DO, Columbia, MO; Robert P. Zitsch, MD, Columbia, MO

H21. Standardized Recommendation Letters for OTO-HNS Residency: A Review
Yaser Ghavami, MD, Irvine, CA; Jay Bhatt, MD, Irvine, CA; Yarah M. Haidar, MD, Irvine, CA; Kasra Ziai, MD, Irvine, CA; Omid Moshtaghi, BS, Irvine, CA; Hamid R. Djalilian, MD, Irvine, CA

H22. Validity of the Hum Test in Predicting Hearing Loss
Yaser Ghavami, MD, Irvine, CA; Omid Moshtaghi, BS, Irvine, CA; Jeffrey Gu, BS, Irvine, CA; Afsheen Moshtaghi, BS, Irvine, CA; Melissa Huang, BS, Irvine, CA; Hamid R. Djalilian, MD, Irvine, CA

H23. WITHDRAWN -- Strategic Planning and Cultural Assessment for Otolaryngology Departments in Transition
Chelsea S. Hamill, MD, Kansas City, KS; Jennifer A. Villwock, MD, Kansas City, KS; Kevin J. Sykes, PhD, Kansas City, KS; Alexander G. Chiu, MD, Kansas City, KS

H24. ANCA Positive Leukocytoclastic Vasculitis Presenting as Hypopharyngeal Mass
Jessica B. Howell, MD, Richmond, VA; Evan R. Reiter, MD, Richmond, VA

H25. Impact of a Novel Social Network Application to Enhance Resident Education in Otolaryngology
Wayne D. Hsueh, MD, Bronx, NY; John P. Bent, MD, New York, NY

H26. Macrolide Associated Sensorineural Hearing Loss: A Systemic Review
Allison K. Ikeda, BS, Atlanta, GA; Anthony A. Prince, MD, Boston, MA (Presenter); Jenny X. Chen, MD, Boston, MA; Judith E.C. Lieu, MD MPH, St. Louis, MO; Jennifer J. Shin, MD SM, Boston, MA

H27. Impact of Humanitarian Experiences on Otolaryngology Trainees
Aria H. Jafari, MD, San Diego, CA; Kathryn R. Tringale, BS, San Diego, CA; Bruce H. Campbell, MD, Milwaukee, WI; Jacob W. Husseman, MD, San Diego, CA; Susan R. Cordes, MD, Ukiah, CA

H28. Fine Needle Aspiration Utilization in the Community Hospital Setting: A Quality Improvement Study
Christopher R. Kieliszak, DO, Columbus, OH; Dustin J. Jones, BS, Athens, OH; Richard T. Klapchar, DO, Columbus, OH; David L. Steward, MD, Cincinnati, OH

H29. Survival for Lip Cancer: Europe vs. United States
Sarah S. Kilic, MA, Newark, NJ; Suat Kilic, BA, Newark, NJ; Zachary S. Mendelson, BS, Newark, NJ; Aykut A. Unsal, DO, Newark, NJ; Soly Baredes, MD, Newark, NJ; Jean Anderson Eloy, MD, Newark, NJ

H30. Survival for Major Salivary Gland Cancer: Europe vs. United States
Suat Kilic, BA, Newark, NJ; Sarah S. Kilic, MA, Newark, NJ; Zachary S. Mendelson, BS, Newark, NJ; Aykut A. Unsal, DO, Newark, NJ; Soly Baredes, MD, Newark, NJ; Jean Anderson Eloy, MD, Newark, NJ

H31. Cholesteatomas Arising from Misplaced Tympanomeatal Flap during Tympanoplasty
Garrett D. Locketz, MD, Philadelphia, PA; Oren D. Cavel, MD, Tel Aviv, Israel; Ophir D. Handzel, MD, Tel Aviv, Israel

H32. Survival for Thyroid Cancer in the 21st Century: Europe vs. United States
Zachary S. Mendelson, BS, Newark, NJ; Suat Kilic, BA, Newark, NJ; Sarah S. Kilic, MA, Newark, NJ; Aykut A. Unsal, DO, Newark, NJ; Soly Baredes, MD, Newark, NJ; Jean Anderson Eloy, MD, Newark, NJ

H33. Intranasal Tissue Necrosis Associated with Oxycodone Abuse: A Case Report and Systematic Review
Danielle A. Morrison, BA, Atlanta, GA; Sarah K. Wise, MD, Atlanta, GA; John M. DelGaudio, MD, Atlanta, GA; Joshua M. Levy, MD MPH, Atlanta, GA

H34. Two Cases of Unusual Cholesteatomas Involving the Facial Nerve
Omid Moshtaghi, BS, Irvine, CA; Ronald Sahyouni, BA, Irvine, CA; Yarah M. Haidar, MD, Irvine, CA; Kasra N. Ziai, MD, Irvine, CA; Harrison W. Lin, MD, Irvine, CA; Hamid R. Djalilian, MD, Irvine, CA

H35. Evaluating the Readability of Spanish Patient Education Materials in Otolaryngology
Samih J. Nassif, BS, Boston, MA; Kevin Wong, BA, Boston, MA; Jessica R. Levi, MD, Boston, MA

H36. Diagnosis of Bleeding Disorder after Ventilation Tube Placement
Ashley P. O'Connell Ferster, MD, Hershey, PA; Michele M. Carr, MD, Hershey, PA

H37. Gastroesophageal Reflux as a Precursor to Nasopharyngeal Carcinoma and Sinonasal Malignancy in the United States
Charles A. Riley, MD, New Orleans, LA; Eric L. Wu, BS, New Orleans, LA; Meichin L. Hsieh, PhD MSPH CTR, New Orleans, LA; Michael J. Marino, MD, Houston, TX; Xiao C. Wu, MD MPH, New Orleans, LA; Edward D. McCoul, MD MPH, New Orleans, LA

H38. Trends in Ambulatory Otolaryngologic Surgery in the Era of the Affordable Care Act 2011-2015
Joshua E. Romero, MD, Syracuse, NY; Haidy A. Marzouk, MD, Syracuse, NY

H39. Management of Candida Parotitis with Abscess Formation Using VAC Therapy: A Rare Case and Review of the Literature
Isaac L. Schmale, MD, Rochester, NY; Glenn T. Schneider, MD MS, Rochester, NY

H40. Pemphigus Vulgaris of the Upper Aerodigestive Tract
Marissa A. Schwartz, MD, Farmington, CT; Todd E. Falcone, MD, Farmington, CT

H41. Sensitivity of Emergency Medicine Residents in Triage of Airway Pathology on Flexible Laryngoscopy
Manan Udayan Shah, MD, Farmington, CT; Seth A. Lotterman, MD, Hartford, CT; Gregory S. Bonaiuto, MD, Hartford, CT

H42. Smartphone Telemedical ER Consults for BPPV: Proof of Concept and Cost Saving Potential
Manan U. Shah, MD, Farmington, CT; Seth A. Lotterman, MD, Hartford, CT; Danial S. Roberts, MD, Farmington, CT; Marc D. Eisen, MD, Hartford, CT

H43. Elective Tracheostomy in a Second Trimester Pregnant Female with Subglottic Stenosis
Karthik S. Shastri, MD, Albany, NY; Jessica W. Scordino, MD, Albany, NY

H44. Post-Obstructive Pulmonary Edema (POPE) and Negative Pressure Pulmonary Edema (NPPE) after Upper Airway Surgery: A Systematic Review and Meta-Analysis
Sungjin A. Song, MD, Honolulu, HI; Joseph Sarette, BS, Bethesda, MD; Cindy L. Pubols, BA, Bethesda, MD; John Neighbors, BS, Bethesda, MD; Scott E. Brietzke, MD MPH, Bethesda, MD; Macario Camacho, MD, Honolulu, HI

H45. Migration of Broken Dental Needle through the Internal Jugular Vein in the Parapharyngeal Space
Jeffrey C. Teixeira, MD, Bethesda, MD; Lauren P. Kecskes, BA, Bethesda, MD; Wayne A. Cardoni, DO, Bethesda, MD; George L. Coppit, MD, Bethesda, MD

H46. Competitiveness of Otolaryngology Applicants without a Home Program
James C. Wang, MD PhD, Cincinnati, OH; Rebecca Gabrilska, BS, Lubbock, TX; Mayank Aranke, BS, Lubbock, TX; Maleeh Effendi, BS, Lubbock, TX; Phillip Watkins, MS, Lubbock, TX; Joehassin Cordero, MD, Lubbock, TX

H47. Opioid Associated Bilateral Sudden Sensorineural Hearing Loss: A Case Report and Literature Review
Yin Yiu, MD, Columbus, OH; Minka L. Schofield, MD, Columbus, OH

Facial Plastic & Reconstructive

H48. The Role of Gli1+ Mesenchymal Stem Cells in Facial Nerve Regeneration
Gabriela L. Bobarnac Dogaru, BS, Los Angeles, CA; Alireza Shokrani, MD MS, Los Angeles, CA; Roseanne Y. Hui, BA, Los Angeles, CA; Jon-Paul Pepper, MD, Los Angeles, CA

H49. First Case of Pyoderma Gangrenosum after Submental Kybella (Deoxycholic Acid) Injection
Shumon I. Dhar, MD, Syracuse, MY; Amar C. Suryadevara, MD, Syracuse, NY; Richard O. Davila, MD, Syracuse, NY; Mark F. Marzouk, MD, Syracuse, NY; Ramsey S. Farah, MD, Syracuse, NY

H50. Repair of Nasal Mucocutaneous Fistula and Scarring Caused by Leishmaniasis through Excision, Local Tissue Advancement, and Alar Rim Grafting
Yula A. Indeyeva, MD, Richmond, VA; Thomas S. Lee, MD, Richmond, VA; Rajanya S. Petersson, MD, Richmond, VA

H51. Endoscopic and Transcervical Approach for Free Flap Reconstruction of Nasopharyngeal and Clival Defects
Natalie A. Krane, MD, Portland, OR; Scott H. Troob, MD, New York, NY; Mark K. Wax, MD, Portland, OR

H52. Alaeque Nasi Myocutaneous Flap: A Novel Approach for Reconstruction of Through and Through Nasal Defects
Richard W. Thompson, MD, Shreveport, LA; Kevin A. Moore, MD, Shreveport, LA; Timothy S. Lian, MD MBA FACS, Shreveport, LA

Head & Neck

H53. Online Reviews of 526 Otolaryngologists
Mai M.G. Al Khadem, MBBCh, Baltimore, MD; Monira M. Albathi, MBBS, Baltimore, MD; Jonathon O. Russell, MD, Baltimore, MD; Salem I. Noureldine, MD, Washington, DC; Ralph P. Tufano, MD, Baltimore, MD

H54. Magnesium Disorders and Hypocalcemia after Total Thyroidectomy in Commercially Insured Patients
Monirah M. Albathi, MBBS, Baltimore, MD; Jason C. Nellis, MD, Baltimore, MD; Jonathon O. Russell, MD, Baltimore, MD; David W. Eisele, MD, Baltimore, MD; Ralph Tufano, MD MBA, Baltimore, MD; Christine Gourin, MD MPH, Baltimore, MD

H55. 3D Printed Tracheoesophageal Puncture and Prosthesis Placement Simulator
Samuel R. Barber, MS, Boston, MA; Elliott D. Kozin, MD, Boston, MA; Matthew R. Naunheim, MD MBA, Boston, MA; Rosh Sethi, MD MPH, Boston, MA; Aaron K. Remenschneider, MD MPH, Boston, MA; Daniel G. Deschler, MD, Boston, MA

H56. The Futility of Intraoperative Frozen Section in the Evaluation of Follicular Thyroid Lesions
Craig A. Bollig, MD, Columbia, MO; David R. Gilley, BS, Columbia, MO; David W. Lesko, BS, Columbia, MO; Laura M. Dooley, MD, Columbia, MO

H57. Fibrin Sealant and Parotidectomy Wound Complications
Stephen R. Chorney, MD MPH, Syracuse, NY; Jesse Ryan, MD, Syracuse, NY

H58. Online Referral for Endocrine Surgical Pathology within Institutions
Vaninder K. Dhillon, MD, Baltimore, MD; Mai Al-khadem, BS, Baltimore, MD; Jonathan O. Russell, MD, Baltimore, MD; Ralph P. Tufano, MD MBA, Baltimore, MD

H59. Trends of Patients by Age Undergoing Thyroidectomy: An Analysis of Inpatient Data in the U.S. from 2005-2011
Kristen A. Echanique, BS, Newark, NJ; Aparna Govindan, BA, Newark, NJ; Michael Sylvester, AB, Newark, NJ; Soly Baredes, MD FACS, Newark, NJ; Mary Ying, MD, Newark, NJ; Evelyne Kalyoussef, MD FACS, Newark, NJ

H60. Accuracy of Preoperative Ultrasound for Characterizing the Size of Obstructive Salivary Ductal Calculi
Nahir R. Estremera, MD, Washington, DC; Arjun S. Joshi, MD, Washington, DC (Presenter); Andrew R. Fuson, MD, Washington, DC; Bernard L. Mendis, BS, Washington, DC

H61. Sonolocation during Submandibular Gland Sialolithotomy
Nahir R. Estremera, MD, Washington, DC; Andrew R. Fuson, MD, Washington, DC (Presenter); Bernard L. Mendis, BS, Washington, DC; Arjun S. Joshi, MD, Washington, DC

H62. Ultrasound Characteristics of Sublingual Calculi
Andrew R. Fuson, MD, Washington, DC; Nahir J. Romero Estremera, MD, Washington, DC; Bernard L. Mendis, BS, Washington, DC; Arjun S. Joshi, MD, Washington, DC

H63. Application of a Novel Vibrating Device for Fine Needle Aspiration Cytology
Ryusuke Hori, MD PhD, Tenri, Nara Japan; Mami Morita, MD, Kyoto, Japan; Tsuyoshi Kojima, MD PhD, Tenri, Nara Japan; Koichi Omori, MD PhD, Kyoto, Japan; Kazuhiko Shoji, MD PhD, Tenri, Nara Japan

H64. Destructive Lesion of Temporomandibular Joint: A Rare Case of Tophaceous Pseudogout
Jessica B. Howell, MD, Richmond, VA; Yula A. Indeyeva, MD, Richmond, VA; Evan R. Reiter, MD, Richmond, VA

H65. Follicular Dendritic Cell Sarcoma: Case Report and Review of Literature
Natalie A. Kim-Orden, MD, Los Angeles, CA; Ksenia A. Aaron, MD, Los Angeles, CA; Uttam Sinha, MD, Los Angeles, CA

H66. Differences in Predictors for Oral Tongue Squamous Cell Carcinoma Survival as Stratified by Age and Sex: A SEER Analysis
Edward C. Kuan, MD, Los Angeles, CA; Jose E. Alonso, BS, Los Angeles, CA; Thomas E. Heineman, MD, Los Angeles, CA; Karam W. Badran, MD, Los Angeles, CA; Maie A. St. John, MD PhD, Los Angeles, CA

H67. Characteristics of Head and Neck Cancer Patients Seen in Multidisciplinary Tumor Clinic
Anisha R. Kumar, MD, Baltimore, MD; Amy Brady, BS, Baltimore, MD; Carole Fakhry, MD MPH, Baltimore, MD; Wayne Koch, MD, Baltimore, MD; David Eisele, MD, Baltimore, MD; Christine G. Gourin, MD MPH, Baltimore, MD

H68. Survival of Renal Cell Carcinoma Metastatic to Non-Thyroid Head and Neck Regions
Tzyy-Nong Liou, MD, St. Louis, MO; Nicholas R. Scott-Wittenborn, BA, St. Louis, MO; Kallogjeri Dorina, MD MPH, St. Louis, MO; Judith E. Lieu, MD, St. Louis, MO; Patrik Pipkorn, MD, St. Louis, MO

H69. Preoperative Assessment of Benign Parotid Masses: Further Imaging and When?
Bernard Mendis, BSc, Washington, DC; Nahir Romero, MD, Washington, DC; Arjun S. Joshi, MD, Washington, DC

H70. Identifying Preoperative Variables and Ultrasound Data to Better Predict Operative Times in Thyroidectomy Surgeries
Jeremy A. Mock, MD, Danville, PA; Eric F. Succar, MD, Danville, PA; Benjamin A. Dixon, BA, Danville, PA; Nicholas C. Purdy, DO, Danville, PA

H71. Management of T1 and T2 Oropharyngeal Malignancies--Geographic Trends and Outcomes--An Analysis of the SEER Database
Hani M. Rayess, MD, Detroit, MI; Andrew P. Johnson, MD, Detroit, MI; Aaron Dezube, MD, Boston, MA; Syed N. Raza, MD, Detroit, MI; Ho-Sheng Lin, MD, Detroit, MI

H72. Oropharyngeal Adenoid Cystic Carcinoma - A Population Based Analysis of Trends and Outcomes
Hani M. Rayess, MD, Detroit, MI; Ho-Sheng Lin, MD, Detroit, MI; Syed N. Raza, MD, Detroit, MI

H73. Robotic Facelift Thyroidectomy: A Case Series
Jonathan O. Russell, MD, Baltimore, MD; Mai M.G. Al Khadem, MBBCh, Baltimore, MD; Sejal R. Saraf, BDS MPH, Baltimore, MD; Jason D. Prescott, MD PhD, Baltimore, MD; Heather M. Starmer, MA CCC-SLP BCS-S, Stanford, CA; Jeremy D. Richmon, MD, Boston, MA

H74. A New Nasoseptal Flap for Skull Base Reconstruction
Saurav Sarkar, MBBS FACS, Bhubaneswar, Orissa India; Ashis Pattnaik, MBBS MS, Bhubaneswar, Orissa India; Sumit Bansal, MBBS MS, Bhubaneswar, Orissa India; Chapity Preetam, MBBS, Bhubaneswar, Orissa India; Preetam Mahajan, MBBS MD, Bhubaneswar, Orissa India; Rabin Narayan Sahoo, MBBS MS, Bhubaneswar, Orissa India

H75. Association of Diabetes with Head and Neck Malignancies
Saurav Sarkar, MBBS FACS, Bhubaneswar, Odisha India; Shibani Mishra, MBBS, Bhubaneswar, Odisha India; Dillip Samal, MBBS, Bhubaneswar, Odisha India; Anjan Kumar Sahoo, MBBS, Bhubaneswar, Odisha India

H76. Amyloidoma of the Carotid Body: A Rare Presentation of Head and Neck Amyloidosis
Ameer T. Shah, MD, Boston, MA; Andrew Katz, BS, Providence, RI; Mark D. Iafrati, MD, Boston, MA; Richard O. Wein, MD, Boston, MA

H77. Lacrimal Sac and Nasolacrimal Duct Non-Keratinizing Squamous Cell Carcinoma: Diagnostic Challenge
Megan P. Sterling, DO, Bethesda, MD; Jeffrey C. Teixeira, MD, Bethesda, MD; Wayne A. Cardoni, DO, Bethesda, MD; Ester L. Kim, MD, Bethesda, MD; James T. Castle DDS, Bethesda, MD

H78. Diagnosis of Double Hit Diffuse Large B Cell Lymphoma
Olivia Twu, MD PhD, San Francisco, CA; Christopher G. Tang, MD, San Francisco, CA

H79. Experience of First Bite Syndrome during Chemotherapy for Hodgkin's Lymphoma: A Case Report
Carla V. Valenzuela, MD, St. Louis, MO; Joseph P. Bradley, MD, St. Louis, MO

Laryngology/Bronchoesophagology/Sleep Medicine

H80. WITHDRAWN -- Improving Residents' Education for Sleep Disordered Breathing
Muhammad Abbas Abid, MD, Baltimore, MD; Matthew C. Stewart, MD, Baltimore, MD; Charles W. Cummings, MD, Baltimore, MD; Nasir I. Bhatti, MD, Baltimore, MD

H81. Transcervical Ultrasound Guided Needle Decompression of Combined Laryngocele Presenting as Acute Airway Obstruction - A Novel Approach to a Rare Condition
James R. Biery, PA-C, Sayre, PA; Phillip K. Pellitteri, DO, Sayre, PA

H82. Trends in Sleep Studies Performed for Medicare Beneficiaries
Whitney Chiao, BA, San Francisco, CA; Megan L. Durr, MD, Oakland, CA

H83. Improved Cardiac Function after Upper Airway Stimulation Therapy: A Case Report
David W. Chou, BS, Philadelphia, PA; Colin Huntley, MD, Philadelphia, PA; Maurits Boon, MD, Philadelphia, PA

H84. The Effects of Vibrotactile Stimulation on Spasmodic Dysphonia, a Crossover Trial
Shumon I. Dhar, MD, Syracuse, NY; Richard T. Kelley, MD, Syracuse, NY; Soren Y. Lowell, PhD, Syracuse, NY

H85. Pyogenic Granuloma of the Larynx: A Rare Cause of Hemoptysis
Andrea L. Hanick, MD, Cleveland, OH; Paul C. Bryson, MD, Cleveland, OH

H86. **Selective Upper Airway Stimulation for Obstructive Sleep Apnea in Obese Patients**
Colin Huntley, MD, Philadelphia, PA; Clemens Heiser, MD, München, Germany; Benedikt Hofauer, MD, München, Germany; Maurits Boon, MD, Philadelphia, PA; Armin Steffen, MD, Luebeck, Germany

H87. **Upper Airway Stimulation Can Successfully Treat Obstructive Sleep Apnea in Patients with a BMI Greater than 32**
Colin T. Huntley, MD, Philadelphia, PA; Karl Doghramji, MD, Philadelphia, PA; Maurits Boon, MD, Philadelphia, PA

H88. **Upper Airway Stimulator Implantation Is Safe to Perform on Systemically Anticoagulated Patients**
Colin T. Huntley, MD, Philadelphia, PA; Karl Doghramji, MD, Philadelphia, PA; Maurits Boon, MD, Philadelphia, PA

H89. **Nasal Septal Deviation among Patients with and without Obstructive Sleep Apnea: A Pilot Study**
Yoseph A. Kram, MD, Tripler AMC, HI; Macario Camacho, MD, Tripler AMC, HI; Soroush Zaghi, MD, Redwood City, CA; Camilo Fernandez-Salvador, MD, Tripler AMC, HI; Clete A. Kushida, PhD, Redwood City, CA

H90. **Upper Esophageal Sphincter Assist Device Effectiveness in Treating Aspiration Due to Radiation and Surgically Induced Patulous Upper Esophageal Sphincters**
Phong T. Le, MD, Charleston, SC; Lucinda A. Halstead, MD, Charleston, SC

H91. **Vocal Cord Injection Augmentation: An Option for Temporary Pitch Elevation for the Male-to-Female Transgender Voice**
Brian A. Nuyen, MD, Stanford, CA; Christopher G. Tang, MD, San Francisco, CA

H92. **Morbidity and Mortality in Children Undergoing Bronchoscopy for Foreign Body Removal**
Christopher A. Roberts, BS, Hershey, PA; Michele M. Carr, DDS MD PhD, Hershey, PA

Otology/Neurotology

H93. **Utility of Intraoperative Imaging in Cochlear Implantation: A Systematic Review**
Swathi Appachi, MD, Cleveland, OH; Samantha Anne, MD, Cleveland, OH; Stacey L. Ishman, MD MPH, Cincinnati, OH; Seth R. Schwartz, MD MPH, Seattle, WA

H94. **Middle Ear Tuberculosis as the Initial Manifestation of Miliary Tuberculosis in a Non-Endemic Region**
Amy P. Bansal, MD, Newark, NJ; Mark A. Galan, MD, Newark, NJ; Yu-Lan M. Ying, MD, Newark, NJ

H95. **Cochlear Implantation Outcomes Evaluated Using Health Related Quality of Life**
Michael J. Bauschard, MD MS, Charleston, SC; Jonathan L. Hatch, MD, Charleston, SC; Shaun A. Nguyen, MD, Charleston, SC; Judy R. Dubno, PhD, Charleston, SC; Craig A. Velozo, PhD, Charleston, SC; Theodore R. McRackan, MD, Charleston, SC

H96. **Can Oxidation in the Ear Be Controlled?**
Brian W. Blakley, MD PhD, Winnipeg, MB Canada; Stacey M. McPhees, MD, Winnipeg, MB Canada

H97. **Inpatient Mastoidectomy: An Analysis of Patient Comorbidities, Complications, Procedure Type, and Diagnosis**
Meghan M. Crippen, MS, Newark, NJ; Jacob S. Brady, BA, Newark, NJ; Omar M. Mohamed, BA, Newark, NJ; Soly Baredes, MD, Newark, NJ; Evelyne Kalyoussef, MD, Newark, NJ; Yu-Lan Mary Ying, MD, Newark, NJ

H98. Hearing Loss on Social Media: Who is Winning Hearts and Minds?
Matthew G. Crowson, MD, Durham, NC; Debara L. Tucci, MD, Durham, NC; David M. Kaylie, MD, Durham, NC

H99. Osteoblastoma of the Temporal Bone in a Young Child
Micah M. Gibson, BS, Houston, TX; Matthew M. Michalowicz, MD, Bethesda, MD; John Aranake-Chrisinger, MD, Houston, TX; Lawrence E. Ginsberg, MD, Houston, TX; Franco DeMonte, MD, Houston, TX; Paul W. Gidley, MD, Houston, TX

H100. Improvement in Tinnitus Handicap Inventory Measures in Patients Participating in a Staged Tinnitus Habituation Therapy Protocol
Saikrishna C. Gourishetti, BS, Baltimore, MD; Chelsea Carter, AuD, Baltimore, MD; Nicole K. Nguyen, AuD, Baltimore, MD; David J. Eisenman, MD, Baltimore, MD

H101. An Analysis of Patient Characteristics and 30 Day Postoperative Adverse Events in Adult Otologic Surgery
Aparna Govindan, BA, Newark, NJ; Kristen A. Echanique, BS, Newark, NJ (Presenter); Meghan M. Crippen, MS, Newark, NJ; Soly Baredes, MD FACS, Newark, NJ; Evelyne Kalyoussef, MD FACS, Newark, NJ; Yu-Lan Mary Ying, MD, Newark, NJ

H102. The Role of Computed Tomography Angiography in Temporal Bone Fractures
Yarah M. Haidar, MD, Irvine, CA; Omid Moshtaghi, BS, Irvine, CA; Anadjeet Khahera, BS, Irvine, CA; Afsheeen Moshtaghi, BS, Irvine, CA; Harrison W. Lin, MD, Irvine, CA; Hamid R. Djalilian, MD, Irvine, CA

H103. Radiographic Variations of Surgically Relevant Middle Cranial Fossa Anatomy in Three Neurotologic Disorders
Kiefer D. Hock, BS, Cincinnati, OH; Shawn M. Stevens, MD, Cincinnati, OH; Myles L. Pensak, MD, Cincinnati, OH; Ravi N. Samy, MD, Cincinnati, OH

H104. Tinnitus Prevalence, Characteristics and Relationship with Cardiometabolic Risk in an African American Cohort
Laura K. House, MD, Jackson, MS; Charles E. Bishop, AuD PhD, Jackson, MS; John M. Schweinfurth, MD, Jackson, MS; Christopher S. Spankovich, AuD PhD, Jackson, MS

H105. Novel Use of Visual Biofeedback for Binocular Microscopy/Otoscopy in the Otolaryngology Office
Wayne Daniel Hsueh, MD, Bronx, NY; Judd H. Fastenberg, MD, Bronx, NY; Christina H. Fang, MD, Bronx, NY; Howard S. Moskowitz, MD, Bronx, NY

H106. Ear Preference and Interaural Asymmetry
Camille M. Huwyler, BS, San Francisco, CA; Jennifer H. Sabes, AuD, San Francisco, CA; Steven W. Cheung, MD, San Francisco, CA; Jolie L. Chang, MD, San Francisco, CA

H107. Location of Small Intracanalicular Vestibular Schwannomas Based on Magnetic Resonance Imaging
Elliott D. Kozin, MD, Boston, MA; Chandler Shapiro, BA, Boston, MA; Aaron K. Remenschneider, MD MPH, Boston, MA; Mary Beth Cunnane, MD, Boston, MA; Michael J. McKenna, MD, Boston, MA; David H. Jung, MD PhD, Boston, MA

H108. Assessment of the Prognosis for the Outcome of Delayed Transmastoid Facial Nerve Decompression Surgery
Yoshihiko Kumai, MD PhD, Kumamoto, Japan; Yutaka Toya, MD PhD, Kumamoto, Japan; Kohei Nishimoto, MD PhD, Kumamoto, Japan; Haruka Kodama, MD PhD, Kumamoto, Japan; Satoru Miyamaru, MD PhD, Kumamoto, Japan

H109. Functional Gait Assessment as an Objective Metric for Outcome after Cartilage Cap Surgery for Superior Canal Dehiscence
Larry B. Lundy, MD, Jacksonville, FL; David A. Zapala, PhD, Jacksonville, FL; Samantha J. Kleindienst, PhD, Scottsdale, AZ

H110. New Bone Formation over Dehiscent Superior Semicircular Canals after Cartilage Cap Resurfacing Surgery
Larry B. Lundy, MD, Jacksonville, FL; Prasanna Vibhute, MD, Jacksonville, FL; Vivek Gupta, MD, Jacksonville, FL; Robert A. Pooley, PhD, Jacksonville, FL; David A. Zapala, PhD, Jacksonville, FL

H111. Overcoming High Frequency Limitations of Air Conduction Hearing Aids Using a Light Driven Contact Hearing Aid; A Comparative Self-Controlled Study
John T. McElveen Jr., MD, Raleigh, NC; Bruce Gantz, MD, Iowa City, IA; Rodney Perkins, MD, Menlo Park, CA; Michael Murray, MD, San Jose, CA; Charles A. Syms, MD, San Antonio, TX; Douglas A. Chen, MD, Pittsburgh, PA

H112. Effect of Rituximab on AAV Related Otitis Media Case
Koshi Otsuki, MD PhD, Fukushima, Japan; Takamichi Matsui, MD PhD, Fukushima, Japan; Yukio Nomoto, MD PhD, Fukushima, Japan; Mitsuyoshi Imaizumi, MD PhD, Fukushima, Japan; Koichi Omori, MD PhD, Fukushima, Japan

H113. Improved Autologous Cortical Bone Harvest and Viability with 2Flute Otologic Burs
Adam A. Roth, BS, Indianapolis, IN; Pei Ciao Tang, PhD, Indianapolis, IN; Mohammad S. Khalid, MD PhD, Indianapolis, IN; Rick F. Nelson, MD PhD, Indianapolis, IN

H114. The Effects of Positive Airway Pressure on the Middle Ear: Systematic Review and Meta-Analysis
Douglas S. Ruhl, MD MSPH, Charlottesville, VA; Stephen S. Schoeff, MD, Charlottesville, VA; Edward T. Chang, MD, Honolulu, HI; Bradley W. Kesser, MD, Charlottesville, VA; George T. Hashisaki, MD, Charlottesville, VA; Macario Camacho, MD, Honolulu, HI

H115. Wegener's Granulomatosis Presenting with Otological Manifestations
Ronald Sahyouni, BA, Irvine, CA; Yarah M. Haidar, MD, Irvine, CA; Omid Moshtaghi, BS, Irvine, CA; Harrison W. Lin, MD, Irvine, CA; Hamid R. Djalilian, MD, Irvine, CA

H116. The Transpetrosal/Transtentorial (TPTT) Approach for the Placement of an Auditory Brainstem Implant
Ravi N. Samy, MD, Cincinnati, OH; Mario Zuccarello, MD, Cincinnati, OH; Shawn M. Stevens, MD, Cincinnati, OH; Joseph T. Breen, MD, Cincinnati, OH; Myles L. Pensak, MD, Cincinnati, OH

H117. 30 Day Morbidity and Mortality Following Otologic/Neurotologic Surgery: Analysis of the NSQIP
Zachary G. Schwam, MD, New Haven, CT; Elias Michaelides, MD, New Haven, CT; Phoebe Kuo, BA, New Haven, CT; Michael A. Hajek, BA, New Haven, CT; Benjamin L. Judson, MD MGA, New Haven, CT; Christopher Schutt, MD, New Haven, CT

H118. The Effect of Subway Station Noise Exposure on Commuter Hearing
Ravi R. Shah, MD, Philadelphia, PA; Jonathan J. Suen, AuD, Baltimore, MD; Ilana P. Cellum, AuD, New York, NY; Jaclyn B. Spitzer, PhD, New York, NY; Anil K. Lalwani, MD, New York, NY

H119. Relationship of Stroke Risk and Hearing Loss in African Americans
Jonathan E. Sorrel, MD, Jackson, MS; Charles E. Bishop, AuD, Jackson, MS; Christopher Spankovich, AuD PhD MPH, Jackson, MS; John M. Schweinfurth, MD, Jackson, MS; Samantha R. Seals, PhD, Pensacola, FL

H120. Position of the Vertical Portion of the Facial Nerve in Adult Cranial Specimens with Big versus Small Mastoids
Norman Wendell Todd, MD MPH, Atlanta, GA

H121. Cochlear Implantation in a Patient with Osteopetrosis
Andrew G. Tritter, MD, Shreveport, LA; Lindsay M. Olinde, BS, Shreveport, LA; Maura K. Cosetti, MD, Shreveport, LA

H122. Exclusive Endoscopic Transcanal Transpromontorial Approach: Defining the Surgical Corridor
Cameron C. Wick, MD, Dallas, TX; Amy M. Moore, BS, Dallas, TX; Jacob B. Hunter, MD, Dallas, TX; Carlos L. Perez, MD, Dallas, TX; Alejandro Rivas, MD, Nashville, TN; Brandon Isaacson, MD, Dallas, TX

H123. Application of Augmented Reality for Preoperative Planning in Lateral Skull Base Surgery
Kevin Wong, BA, Boston, MA; Brian A. Xavier, BA, Boston, MA; Vivek V. Kanumuri, MD, Boston, MA; Maria J. Duarte, BS, Boston, MA; Elliott D. Kozin, MD, Boston, MA; Daniel J. Lee, MD, Boston, MA

H124. Pediatric Auditory Brainstem Implant Surgery: Effect of Anesthesia on Electrically Evoked Auditory Brainstem Responses
Kevin Wong, BA, Boston, MA; Ruwan Kiringoda, MD, Boston, MA; Samuel R. Barber, MS, Boston, MA; Barbara S. Herrmann, PhD, Boston, MA; Daniel J. Lee, MD, Boston, MA

Pediatric Otolaryngology

H125. An Analysis of Risk Factors in Unilateral versus Bilateral Hearing Loss Identified through Universal Newborn Hearing Screening
Eric N. Appelbaum, MD, Richmond, VA; Michael F. Armstrong, BS, Richmond, VA; Derek A. Chapman, PhD, Richmond, VA; Elizabeth Musser, PhD, Richmond, VA; Kelley M. Dodson, MD, Richmond, VA

H126. Case Report: Duodenal Ulcer, an Unusual Presentation of Pediatric Post-Tonsillectomy Hematemesis
Carolyn A. Brydon, MD, Albany, NY; Kristina Piastro, MD, Albany, NY; John P. Gavin, MD, Albany, NY; Nikki Allmendinger, MD, Albany, NY; Walter E. Edge, MD, Albany, NY

H127. The Role of the Otolaryngologist in the Zika Epidemic
Si Chen, MD, Miami, FL; Ramzi T. Younis, MD, Miami, FL

H128. Comprehensive Pediatric Vestibular Testing: Identifying Factors Predictive of Successful Testing
Peter J. Ciolek, MD, Cleveland, OH; Elise M. Kang, BA, Cleveland, OH; Erika A. Woodson, MD, Cleveland, OH; Samantha Anne, MD, Cleveland, OH

H129. Peritonsillar Abscesses in Children
Christine M. Clark, BA, Hershey, PA; Michele M. Carr, DDS MD PhD, Hershey, PA

H130. Salivary Cotinine Levels in Children with Otolaryngological Disorders
Christine M. Clark, BA, Hershey, PA; Jillian N. Printz, BS, Hershey, PA; Lauren E. Stahl, BS, Hershey, PA; Brett E. Phillips, PhD, Hershey, PA; Michele M. Carr, DDS MD PhD, Hershey, PA

H131. Type 1 Laryngeal Cleft Repair through a Novel Transoral, Non-Endoscopic Approach
Austin N. DeHart, MD, Richmond, VA; Rajanya S. Petersson, MD, Richmond, VA

H132. Modified Minerva Cervical Thoracic Orthosis for the Postoperative Management of Cricotracheal Resection: A Single Institutional Review
Jennifer F. Ha, MBBS FRACS, Ann Arbor, MI; Timothy Baerg, BS, Ann Arbor, MI; Megan Christ, BS, Ann Arbor, MI; Glenn E. Green, MD, Ann Arbor, MI

H133. Consulting Dr. Google: Quality of Online Resources About Tympanostomy Tube Placement
Vandra C. Harris, MD, Baltimore, MD; Emily F. Boss, MD MPH, Baltimore, MD; Paul Hong, MD, Haifax, NS Canada; Anne R. Links, MS MHS, Baltimore, MD; Desi P. Schoo, MD, Baltimore, MD; David E. Tunkel, MD, Baltimore, MD

H134. Pediatric Outpatient Tonsillectomy: Safe in Children under Three
Claire M. Lawlor, MD, New Orleans, LA; C. Alexander Riley, MD, New Orleans, LA; J. Lindhe Guarisco, MD, New Orleans, LA; Kimsey H. Rodriguez, MD, New Orleans, LA

H135. Efficacy of a Decision Aid Prototype for Treatment of Pediatric Sleep Disordered Breathing: A Pilot Study
Jeremy D. Meier, MD, Salt Lake City, UT; Jill M. Chorney, PhD, Halifax, NS Canada; Samuel D. Fox, BS, Salt Lake City, UT; Paul S. Hong, MD, Halifax, NS Canada

H136. Congenital Nasal Obstruction in Infants
Vijay A. Patel, MD, Hershey, PA; Michele M. Carr, MD, Hershey, PA

H137. Pediatric Tracheostomy Knowledge among Pediatric Residents
Vijay A. Patel, MD, Hershey, PA; Robert S. Saadi, MD, Hershey, PA; Hetal H. Patel, MD, Hershey, PA; Michele M. Carr, MD, Hershey, PA

H138. Morbidity of Thyroglossal Duct Cyst Excision in Children under Two Years: Analysis of NSQIP 30 Day Outcomes
Christopher D. Pool, MD, Hershey, PA; Shivani Shah, MD, Hershey, PA; Michelle Carr, DDS MD PhD, Hershey, PA

H139. Decisional Regret Following Ventilation Tube Insertion
Jillian A. Printz, BS, Hershey, PA; Michele M. Carr, DDS MD PhD, Hershey, PA (Presenter); Shreya Thakur, Pittsburgh, PA

H140. Examining Outcomes and Costs in the Management of Pediatric Lateral Neck Infections
Nicholas A. Quinn, MD, Salt Lake City, UT; Jeremy D. Meier, MD, Salt Lake City, UT; Laura N. Hodo, MD, Salt Lake City, UT; Jared A. Olson, PharmD, Salt Lake City, UT

H141. Invasive Fungal Pharyngitis in a Pediatric Bone Marrow Transplant Patient
Andrew J. Redmann, MD, Cincinnati, OH; Charles M. Myer IV, MD, Cincinnati, OH (Presenter); Lara A. Danziger-Isakov, MD, Cincinnati, OH; Pooja Khandelwal, MD, Cincinnati, OH

H142. Outcome Predictors for Cervical Abscesses in the Pediatric Population
Christopher A. Roberts, BS, Hershey, PA; Erik B. Lehman, MS, Hershey, PA; Michele M. Carr, DDS MD PhD, Hershey, PA

H143. Conservative Management of a Trans-Spatial Infantile Subglottic Hemangioma
Marissa A. Schwartz, MD, Farmington, CT; Amy L. Hughes, MD, Boston, MA; Tulio A. Valdez, MD MSc, Hartford, CT

H144. Hemoptysis in Pediatric Tracheostomy Patients
Rishabh Sethia, BS, Columbus, OH; Joseph J. Lopez, MD, Columbus, OH; Charles A. Elmaraghy, MD, Columbus, OH

H145. Pediatric Facial Kaposiform Hemangioendothelioma: A Case Report and Review of the Literature
Rishabh Sethia, BS, Columbus, OH; Kris R. Jatana, MD, Columbus, OH; Charles A. Elmaraghy, MD, Columbus, OH

H146. Current Management and Referral Patterns of Pediatricians for Acute Otitis Media
Shivani U. Shah-Becker, MD, Hershey, PA; Michele M. Carr, MD PhD DDS, Hershey, PA

H147. Tracheocutaneous Fistula Closure: Outcomes and Complications in the Pediatric Population
Blaine D. Smith, BS, Houston, TX; Sancak D. Yuksel, MD, Houston, TX; Farrukh R. Virani, BS, Houston, TX; Kevin J. Caceres, MD, Houston, TX; Soham Roy, MD, Houston, TX

H148. The Effect of Strontium Citrate on Bone Consolidation during Mandibular Distraction Osteogenesis in a Rabbit Model
Benjamin A. Taylor, MD, Halifax, NS Canada; Michael B. Bezuhly, MD MSc, Halifax, NS Canada; Michael C. Carter, MD PhD, Halifax, NS Canada; Paul H. Hong, MD MSc, Halifax, NS Canada

H149. Effect of Race and Ethnicity on Pediatric Adenotonsillectomy Outcomes for OSA: A Systematic Review
Justin M. Wei, MD, Honolulu, HI; Macario Camacho, MD, Honolulu, HI; Erika Ho, BS, Honolulu, HI; Brandyn Dunn, MD MPH, Irvine, CA; Bryant Giles, BS, Suwanee, GA; Lauren K. Reckley, MD, Honolulu, HI