

**TRIOLOGICAL SOCIETY  
113TH ANNUAL MEETING PROGRAM  
APRIL 30 - MAY 1, 2010  
LAS VEGAS, NEVADA**

**FRIDAY, APRIL 30, 2010**

**PLATINUM ROOM**

- 7:00 - 7:50      **Business Meeting (Fellows Only)**  
New Fellow Induction Ceremonies and Reception
- 8:00              **WELCOME/OPENING REMARKS**  
Frank E. Lucente, MD\*, Brooklyn, NY
- 8:04              **INTRODUCTION OF PRESIDENTIAL CITATIONS**  
Lanny Garth Close, MD\*, New York, NY  
Robert H. Miller, MD MBA\*, Houston, TX  
Myles L. Pensak, MD\*, Cincinnati, OH  
Richard M. Rosenfeld, MD MPH\*, Brooklyn, NY  
Nancy L. Snyderman, MD
- 8:14              **INTRODUCTION OF GUEST OF HONOR & PRESENTATION**  
The Role of Individualized Medicine in Management of Early Glottic Cancer  
Gady Har-El, MD\*, New York, NY
- 8:28              **PRESIDENTIAL ADDRESS**  
Upholding the Noble Legacy: *Noblesse Oblige*  
Frank E. Lucente, MD\*, Brooklyn, NY

**Panel**

- 8:40 - 9:30      **Ethical Issues in Otolaryngology/Head and Neck Surgery**  
**Moderator:** Robert H. Maisel, MD\*, Minneapolis, MN  
**Panelists:** Gerald S. Berke, MD\*, Los Angeles, CA  
Lanny Garth Close, MD\*, New York, NY  
Anna M. Pou, MD, New Orleans, LA  
Harold C. Pillsbury, MD\*, Chapel Hill, NC
- 9:30 - 9:45      **OGURA LECTURE**  
Teaching and Learning - Then and Now  
Marvin P. Fried, MD\*, Bronx, NY

-----9:45 - 10:15      **Break with Exhibitors - Visit Posters** -----

GOLD ROOM

**Panel Sessions**

**Panel**

10:15 -11:05

**Contemporary Management of Laryngeal Cancer**

**Moderator:** Jonas T. Johnson, MD\*, Pittsburgh, PA

**Panelists:** Christine G. Gourin, MD\*, Baltimore, MD  
Randal S. Weber, MD\*, Houston, TX  
Gregory T. Wolf, MD, Ann Arbor, MI  
Bruce H. Haughey, MBChB, St. Louis, MO

**Panel**

11:10 - 12:00

**Pearls in the Management of Sinus and Skull Base Tumors**

**Moderator:** David W. Kennedy, MD\*, Philadelphia, PA

**Panelists:** Ricardo Carrau, MD\*, Pittsburgh, PA  
Satish Govindaraj, MD, New York, NY  
Peter H. Hwang, MD\*, Stanford, CA  
Bert W. O'Malley Jr., MD\*, Philadelphia, PA  
Brent A. Senior, MD\*, Chapel Hill, NC  
S. James Zinreich, MD, Baltimore, MD

----- 12:00 - 1:00    **Lunch with Exhibitors - Visit Posters** -----

PLATINUM ROOM

**Laryngology**

**Moderator:** Gerald S. Berke, MD\*, Los Angeles, CA

**10:17**

**Early Injection Medialization for Unilateral Vocal Cord Paralysis**

Aaron D. Friedman, MD, Boston, MA; James A. Burns, MD\*, Boston, MA; Steven M. Zeitels, MD\*, Boston, MA

**10:25**

**Reinke's Edema Presenting as Stridor: Implications for Otolaryngologists in Difficult Airway**

Atta Mohyuddin, MD FRCS(Ed), London, UK; Arhi Chapreet, MD, Luton, UK; John Pickles, MD, Luton, UK

**10:33**      **Standardized High Level Disinfection of Flexible Laryngoscopes in Pediatric Otolaryngology**  
Melissa M. Statham, MD, Cincinnati, OH; J. Paul Willging, MD\*, Cincinnati, OH

**10:41**      **EMG and Histologic Evolution of the Recurrent Laryngeal Nerve from Transection and Anastomosis to Complete Reinnervation--A Rat Model**  
Michael J. Pitman, MD, New York, NY; Philip A. Weissbrod, MD, New York, NY; Rick M. Roark, PhD, Valhalla, NY; Sansar C. Sharma, PhD, Valhalla, NY; Steven D. Schaefer, MD\*, New York, NY

**10:49**      **The Efficacy of Transforming Growth Factor Beta-3 for the Prevention of Buccal Mucosa Scarring**  
Satoshi Ohno, MD, Kyoto, Japan; Shigeru Hirano, MD PhD, Kyoto, Japan; Shin-Ichi Kanemaru, MD PhD, Kyoto, Japan; Ichiro Tateya, MD PhD, Kyoto, Japan; Juichi Ito, MD PhD, Kyoto, Japan

**10:57 - 11:05**      **Discussion/Q&A**

**Pediatric Otolaryngology**  
Moderator: **Scott C. Manning, MD\*, Seattle, WA**

**11:12**      **Pediatric Acute Sinusitis: Predictors of Increased Resource Utilization**  
Deepak R. Dugar, BA, Washington, DC; Rishi Vashishta, BSc, Washington, DC; Lina Lander, ScD, Omaha, NE; Rahul K. Shah, MD FACS FAAP\*, Washington, DC

**11:20**      **The Increased Risk of Community Acquired Methicillin Resistant Staphylococcus Aureus (MRSA) Deep Space Neck Infections Requiring Surgical Intervention in Young Children**  
Praveen Duggal, MD, Atlanta, GA; Iman Naseri, MD, Jacksonville, FL; Steven E. Sobol, MD, Atlanta, GA

**11:28**      **Bony Mandibular Abnormalities Associated with Cervicofacial Lymphatic Malformations**  
Teresa M. O, MD, New York, NY; Roy Kwak, MD, New York, NY; Joanna d'Elia, MD, New York, NY; Milton Waner, MD, New York, NY

**11:36**      **Current Treatment of Parotid Hemangiomas**  
Inanna P. Weiss, MD, New York, NY; Teresa M. O, MD, New York, NY; Brian A. Lipari, MD, New York, NY; Milton Waner, MD, New York, NY

**11:44**

**Long Term Followup for Intracapsular Tonsillectomy Techniques**

Yushan Lisa Wilson, MD, New York, NY; Sudeep Roy, BS, Valhalla, NY; Guopei Yu, MD PhD, New York, NY; Augustine L. Moscatello, MD, Ardsley, NY

**11:52 - 12:00 Discussion/Q&A**

----- **12:00 - 1:00 Lunch with Exhibitors - Visit Posters** -----

**PLATINUM ROOM**

**Head and Neck**

**Moderator: Lanny Garth Close, MD\*, New York, NY**

**1:02**

**Minimally Invasive Surgery for Thyroid Gland**

Hiroya Kitano, MD PhD, Yonago, Tottori Japan

**1:10**

**A Novel Endoscopic Approach to the Paranasal Sinuses and Lateral Skull**

**Base: A Clinical and Radioanatomic Study of Endoscopic Anterior Maxillotomy**

Ivan H. El-Sayed, MD, San Francisco, CA; Matthew S. Russell, MD, San Francisco, CA (Presenter); Steven J. Pletcher, MD, San Francisco, CA; Michael W.

McDermott, MD, San Francisco, CA; Andrew T. Parsa, MD PhD, San Francisco, CA

**1:18**

**Diagnostic and Interventional Sialendoscopy: A Preliminary Experience**

Rohan R. Walvekar, MD, New Orleans, LA; Celeste Gary, BS, New Orleans, LA;

David D. Beahm, MD, New Orleans, LA; Daniel W. Nuss, MD, New Orleans, LA

**1:26**

**Outcomes of Static and Dynamic Facial Nerve Repair in Head and Neck Cancer**

Tim A. Iseli, MBBS, Parkville, Victoria Australia; Nichole R. Dean, DO, Birmingham, AL (Presenter); Gregory E. Harris, BS, Birmingham, AL; Claire E. Iseli, MBBS,

Parkville, Victoria Australia; Eben L. Rosenthal, MD\*, Birmingham, AL

**1:34**

**Outcomes of Vascularized Bone Graft Reconstruction of the Mandible in**

**Bisphosphonate Related Osteonecrosis of the Jaws**

Rahul Seth, MD, Cleveland, OH; Neal D. Futran, MD DMD, Seattle, WA; Daniel S.

Alam, MD, Cleveland, OH; Philip D. Knott, MD, Cleveland, OH

**1:42 - 1:50 Discussion/Q&A**

## Head and Neck

Moderator: Christine G. Gourin, MD\*, Baltimore, MD

**1:57**

### **Predictors of Total Laryngectomy Survival**

Isaac A. Bohannon, MD, Birmingham, AL; Renee A. Desmond, PhD DVM, Birmingham, AL; William R. Carroll, MD, Birmingham, AL; J. Scott Magnuson, MD\*, Birmingham, AL; Eben L. Rosenthal, MD\*, Birmingham, AL

**2:05**

### **Gastroneopharyngeal Reflux in Patients with Laryngectomy, Do All Patients Need Antireflux Therapy?**

Ramez George Nassif, MBBCh, Toronto, ON Canada; Lesley G. Irvine, BSc, Dundee, Scotland UK; Rodney E. Mountain, MBCh, Dundee, Scotland UK

**2:13**

### **Analysis of Swallowing Function following Transoral Laser Microsurgery (TLM) ± Adjuvant Therapy for Advanced Oropharyngeal Cancer**

Jason T. Rich, MD, St. Louis, MO; Bruce H. Haughey, MBChB, St. Louis, MO

**2:21**

### **Cost Effective Community Based Screening for Oral Cancer in High Risk Males in the United States: A Decision Analysis Approach**

Raj C. Dedhia, MD, Pittsburgh, PA; Mark S. Roberts, MD, Pittsburgh, PA; Jonas T. Johnson, MD\*, Pittsburgh, PA

**2:29**

### **Histopathologic Findings of HPV and p16 Positive Head and Neck squamous Cell Carcinomas**

Abie H. Mendelsohn, MD, Los Angeles, CA; Chi K. Lai, MD, Los Angeles, CA; Peter Shinkatu, MD, Los Angeles, CA; Maie St. John, MD PhD, Los Angeles, CA

**2:37 - 2:45**

**Discussion/Q&A**

-----**2:45 - 3:15**

**Break with Exhibitors - Visit Posters** -----

## Otology

Moderator: Daniel I. Choo, MD\*, Cincinnati, OH

**3:17**

### **MOSHER AWARD PRESENTATION (Triological Society Thesis)**

### **The Assessment of Olivocochlear Function in Neonates with Real Time Distortion Product Otoacoustic Emissions**

Adrian L. James, MD\*, Toronto, ON, Canada

**3:25**

**Regenerative Treatment for the Soft Tissue Defect of External Auditory Tube**

Shin-ichi Kanemaru, MD PhD, Osaka, Japan; Hiroo Umeda, MD PhD, Shizuoka, Japan; Tatsuo Nakamura, MD PhD, Kyoto, Japan; Shigeru Hirano, MD PhD, Kyoto, Japan; Juichi Ito, MD PhD, Kyoto, Japan

**3:33**

**Laser Tissue Welding Tympanoplasty of Rabbit Tympanic Membrane Perforations**

Luv R. Javia, MD, Philadelphia, PA; Benjamin S. Bleier, MD, Charleston, SC; James N. Palmer, MD, Philadelphia, PA; Noam Cohen, MD PhD, Philadelphia, PA

**3:41**

**Osteoblasts Cultured from Stapes: An In Vitro Model for Otosclerosis**

Kourosh Parham, MD PhD, Farmington, CT; Yvonne L. Richardson, MD, Farmington, CT; Jonathan J. Romak, BA, Farmington, CT; Craig M. Rodner, MD, Farmington, CT; Gerry Leonard, MD, Farmington, CT; Gloria A. Gronowicz, MD, Farmington, CT

**3:49**

**Primary Anastomosis of Transected Facial Nerve Using Novel Nerve Probe in Rodent Model**

Amy P. Wu, MD, La Jolla, CA; Michael A. Whitney, PhD, La Jolla, CA; Jessica L. Crisp, BA, La Jolla, CA; Linda T. Nguyen, BA, La Jolla, CA; Roger Y. Tsien, PhD, La Jolla, CA; Quyen T. Nguyen, MD PhD, La Jolla, CA

**3:57**

**Phenotypic Comparison of Hearing Impaired Patients between Those with Homozygous Mutations of GJB2/Del (GJB6-D13S1830) and Heterozygous Mutation Carriers**

Michael J. Lipan, MD, Miami, FL; Xiao M. Ouyang, MD, Miami, FL; Simon I. Angeli, MD\*, Miami, FL; Denise Yan, PhD, Miami, FL; Xiu Z. Liu, MD PhD, Miami, FL

**4:05 - 4:15**

**Discussion/Q&A**

**Otology**

**Moderator: Jose N. Fayad, MD\*, Los Angeles, CA**

**4:21**

**Determining First Line Treatment for Migraine Related Dizziness**

Adam M. Cassis, MD, Morgantown, WV; Stephen J. Wetmore, MD\*, Morgantown, WV

**4:29**

**Presence of Cytomegalovirus in the Perilymphatic Fluid of Patients with Profound Sensorineural Hearing Loss Caused by Congenital Cytomegalovirus Infection**

Hiroshi Ogawa, MD, Fukushima, Japan; Takamichi Matsui, MD, Fukushima, Japan; Yoko Baba, MD, Fukushima, Japan; Naoko Yamada, PhD, Fukushima, Japan; Tatsuo Suzutani, MD, Fukushima, Japan; Koichi Omori, MD, Fukushima, Japan

**4:37**

**Correlation of Imaging Characteristics and Clinical Markers in Children with Enlarged Vestibular Aqueducts**

Adam P. Campbell, BA, Chapel Hill, NC; Oliver F. Adunka, MD, Chapel Hill, NC; Carlton J. Zdanski, MD, Chapel Hill, NC; Craig A. Buchman, MD\*, Chapel Hill, NC

**4:45**

**Anatomic Verification of a Novel, Non-Rigid Registration Method for Precise Intrascalar Localization of Cochlear Implant Electrodes in Adult Human Temporal Bones Using Clinically Available Computerized Tomography**

Theodore A. Schuman, MD, Nashville, TN; Jack H. Noble, BS, Nashville, TN; Charles G. Wright, PhD, Dallas, TX; George B. Wanna, MD, Nashville, TN; Benoit M. Dawant, PhD, Nashville, TN; Robert F. Labadie, MD PhD\*, Nashville, TN

**4:53**

**FOWLER AWARD PRESENTATION (Triological Society Thesis)**

**Laser Stimulation of Single Auditory Nerve Fibers**

Philip D. Littlefield, MD\*, Washington, DC

**5:01 - 5:08**

**Discussion/Q&A**

**5:30 - 7:00**

**Poster Reception (TRIO & ASPO) - Exhibit Hall**

**7:00 - 8:30**

**Wine Reception - Skyview 2 (Bally's 26th floor)**

## **SATURDAY, MAY 1, 2010**

**7:00 - 7:50**

**Business Meeting (Members Only) - Platinum Room**

**8:00**

**Announcements - Platinum Room  
Recognition of Poster Awardees**

### **PLATINUM ROOM**

#### **General**

**Moderator: Andrew H. Murr, MD\*, San Francisco, CA**

**8:07**

**Learning Curve for Competency in Flexible Laryngoscopy**

Kulsoom Laeeq, MD, Baltimore, MD; Nasir I. Bhatti, MD, Baltimore, MD (Presenter); Charles M. Stewart, MD PhD, Baltimore, MD; Hamid B. Masood, MD, Baltimore, MD; Robert A. Weatherly, MD, Kansas City, KS; Charles W. Cummings, MD, Baltimore, MD

**8:15**

**Utility of Imaging Studies in Idiopathic Vocal Cord Paralysis**

Brad W. deSilva, MD, Columbus, OH; Bradley R. Lawson, BS, Columbus, OH;  
Lowell A. Forrest, MD, Columbus, OH

**8:23**

**Development and Pilot Testing of an Objective Structured Clinical Examination (OSCE) on Hoarseness**

Charles M. Stewart, MD PhD, Baltimore, MD; Hamid Masood, MD, Baltimore, MD;  
Kulsoom Laeeq, MD, Baltimore, MD; Amit Kochhar, MD, Baltimore, MD; Nasir I. Bhatti, MD, Baltimore, MD

**8:31**

**Site Involvement as a Predictor of Airway Intervention in Angioedema**

Michael E. McCormick, MD, Detroit, MI; Adam J. Folbe, MD, Detroit, MI; John H. Krouse, MD PhD\*, Philadelphia, PA

**8:39**

**Angioedema: Assessment, Risk Factors, Treatment, and Patient Demographics in an Urban Tertiary Care Center**

Danny M. Meslemani, MD, Detroit, MI; Natalie N. Rizk, PhD, Detroit, MI; Michael D. Seidman, MD\*, Detroit, MI

**8:47**

**Efficacy of Preoperative Neck Ultrasound in the Detection of Cervical Lymph Node Metastasis from Thyroid Cancer**

Harry S. Hwang, MD, San Francisco, CA; Lisa A. Orloff, MD, San Francisco, CA

**8:55**

**The Successes and Pitfalls of Using Sialoendoscopy for the Diagnosis and Management of Salivary Gland Obstruction**

Alison M. Maresh, MD, New York, NY; David I. Kutler, MD, New York, NY;  
Ashutosh S. Kacker, MD, New York, NY

9:03 - 9:10

Discussion/Q&A

**General**

Moderator: Michael G. Stewart, MD\*, New York, NY

**9:12**

**Awake Pulse Dye Laser (PDL) treatment of Hereditary Hemorrhagic Telangiectasia Epistaxis**

Chih-Kwang Sung, MD MS, Boston, MA; Ramon A. Franco Jr., MD, Boston, MA

**9:20**

**Tongue Base Coblation as an Adjunct to Uvulopalatopharyngoplasty in the Surgical Treatment of Sleep Apnea: Experience with 100 Patients**

Nora W. Perkins, MD, Albany, NY; Steven M. Parnes, MD\*, Albany, NY

**9:28**

**Open Bedside Tracheotomy: Impact on Patient Care and Patient Safety**

Donald B. Yoo, MD, Bronx, NY; Bradley A. Schiff, MD, Bronx, NY; Richard V. Smith, MD, Bronx, NY; Marvin P. Fried, MD\*, Bronx, NY

**9:36**

**Temperature Variations of Nasal Endoscopes and Other Otolaryngic Lighting**

Jeffrey J. Nelson, MD, Syracuse, NY; Parul Goyal, MD, Syracuse, NY

**9:44**

**A New Tool for Measuring Therapeutic Outcome for Oral Malodor**

Yosef P. Krespi, MD\*, New York, NY; Victor Kizhner, MD, New York, NY

9:52 - 9:58

**Discussion/Q&A**

-----9:58 - 10:25 Break with Exhibitors - Visit Posters -----

**Facial Plastic/Reconstructive Surgery**

Moderator: Soly Baredes, MD\*, Newark, NJ

**10:27**

**Interposition Vein Grafts in Microvascular Head and Neck Reconstruction**

Maxwell C. Furr, MD, Portland, OR; Steven B. Cannady, MD, Rochester, NY; Mark K. Wax, MD, Portland, OR

**10:35**

**Orthodromic Transfer of the Temporalis Tendon and Coronoid Process of the Mandible to Reanimate the Paralyzed Face**

Douglas M. Sidle, MD, Chicago, IL; Andrew J. Fishman, MD, Chicago, IL

**10:43**

**Cleft Lip Repair: Closing the Skin, Does it Matter How?**

Daniel Luke Crozier, MD, Syracuse, NY; Joshua A. Demke, MD, Lubbock, TX; Sherard A. Tatum, MD, Syracuse, NY

**10:51**

**Effectiveness of CO2 Fraxel Laser Therapy in the Management and Treatment of Facial Scars**

Brian A. Lipari, MD, New York, NY; Teresa M. O, MD, New York, NY; Inanna P. Weiss, MD, New York, NY; Milton Waner, MD, New York, NY

10:59 - 11:05

**Discussion/Q&A**

# Sinus and Nasal

Moderator: Ralph B. Metson, MD\*, Boston, MA

**11:07**

**Outcomes after Middle Turbinate Resection: Revisiting a Controversial Topic**

Zachary M. Soler, MD, Portland, OR; Peter H. Hwang, MD\*, Stanford, CA; Jess C. Mace, MPH, Portland, OR; Timothy L. Smith, MD MPH\*, Portland, OR

**11:15**

**Correlations between Symptoms, Nasal Endoscopy, and In-Office Computed Tomography in Postoperative Chronic Rhinosinusitis Patients**

William R. Ryan, MD, Palo Alto, CA; Tara T. Ramachandra, MD, Nashville, TN; Peter H. Hwang, MD\*, Stanford, CA

**11:23**

**The Early Postoperative Course of Surgical Sleep Apnea Patients**

Brian W. Rotenberg, MD FRCPC, London, ON Canada; Amanda C. Hu, MD, London, ON Canada (Presenter); John Fuller, MD, London, ON Canada; Yves Bureau, PhD, London, ON Canada; Ian Arra, MD, London, ON Canada; Mithu Sen, MD, London, ON Canada

**11:31**

**In-Training Assessment and Attainment of Competency in Endoscopic Sinus Surgery**

Kulsoom Laeeq, MD, Baltimore, MD; Andrew P. Lane, MD\*, Baltimore, MD; Sandra Y. Lin, MD, Baltimore, MD; Masaru Ishii, MD PhD, Baltimore, MD; Douglas Reh, MD, Baltimore, MD; Nasir I. Bhatti, MD, Baltimore, MD

**11:39**

**Evaluation of a Novel Polysaccharide Based Gel for Use in Laser Assisted Skull Base Repair: A Rabbit Model**

Benjamin S. Bleier, MD, Philadelphia, PA; James N. Palmer, MD, Philadelphia, PA; Alexander G. Chiu, MD, Philadelphia, PA; Noam A. Cohen, MD PhD, Philadelphia, PA

11:47 - 11:55

Discussion/Q&A

**11:55**

**Introduction of President-Elect**

**Gerald S. Berke, MD\*, Los Angeles, CA**

-----Lunch with Exhibitors/View Posters -----

# Scientific Poster Program

## **General**

- A1.**            **Roller Coaster Induced Ear Barotrauma**  
Samer Al-khudari, MD, Detroit, MI; Kathleen Yaremchuk, MD\*, Detroit, MI
- A2.**            **Under the Microscope: Assessing Surgical Aptitude of Otolaryngology Residency Applicants**  
David J. Archibald, MD, Rochester, MN; Matthew L. Carlson, MD, Rochester, MN; Eric J. Moore, MD\*, Rochester, MN
- A3.**            **Patent Pyriform Sinus Fistula in a Third Branchial Cleft Cyst**  
Deidra A. Blanks, MD, Chapel Hill, NC; Carol G. Shores, MD PhD, Chapel Hill, NC
- A4.**            **Acquired Nasopharyngeal Stenosis in a Patient with Sarcoidosis**  
Jacob R. Brodsky, MD, Syracuse, NY; Richard T. Kelley, MD, Syracuse, NY; Sherard A. Tatum, MD, Syracuse, NY
- A5.**            **A Simple Technique: External Light Guidance for Percutaneous Dilatational Tracheotomy**  
Ivan H. El-Sayed, MD FACS, San Francisco, CA; James E. Ho, PhD, San Francisco, CA; David W. Eisele, MD FACS\*, San Francisco, CA
- A6.**            **The Monetary Value of Physician Services in America: A Survey of the General Population**  
Paul C. Frake, MD, Washington, DC; Mark C. Domanski, MD, Washington, DC; Rebecca J. Howell, MD, Washington, DC; Thomas Troost, MD, Washington, DC
- A7.**            **Upper Airway Radiofrequency Ablation with Nasal Surgery: An Effective and Cost Effective Strategy for Socially Disruptive Snoring**  
M. Boyd Gillespie, MD, Charleston, SC; Jared M. Intaphan, MD, Charleston, SC; Shaun A. Nguyen, MD, Charleston, SC
- A8.**            **Otolaryngology Resident Perspective of Proposed Duty Hour Restrictions**  
Rebecca J. Howell, MD, Washington, DC; Amy Caggiola, BS, Washington, DC; Mark C. Domanski, MD, Washington, DC; Philip E. Zapanta, MD, Washington, DC

- A9.**                   **Anesthesia Induced Methemoglobinemia in a Patient with Hansen's Disease: A Case Report**  
David Hu, MD, Los Angeles, CA; Trac Duong, MD, Los Angeles, CA; Maie St. John, MD PhD, Los Angeles, CA
- A10.**                   **The Feasibility of Telemedicine in Fiberoptic Laryngoscopy**  
Lori A. Lemonnier, MD, Detroit, MI; Corey K. Treadway, MD, Traverse City, MI; Adam J. Folbe, MD, Detroit, MI
- A11.**                   **Effects of Early Ozone Exposure on the Immunologic Response to Infection in Respiratory Mucosal Cells of Rhesus Macaque Monkeys**  
Jonathan Liang, MD, Sacramento, CA; Rebecca Fishman, BS, Davis, CA; Justin Fontaine, BS, Davis, CA; Joan Gerriets, PhD, Davis, CA; Edward Postlethwait, PhD, Birmingham, AL; Lisa Miller, PhD, Davis, CA
- A12.**                   **Lateral Dermoid Cyst of the Floor of Mouth: Unusual Radiologic and Pathologic Findings**  
Harrison W. Lin, MD, Boston, MA; Amanda L. Silver, MD, Boston, MA; Mary E. Cunnane, MD, Boston, MA; Peter M. Sadow, MD PhD, Boston, MA; David A. Kieff, MD, Boston, MA
- A13.**                   **The Role of Inhalant Allergy in Caring for the Chronic Laryngitis Patient**  
Elizabeth J. Mahoney, MD, Boston, MA; Marisa A. Ryan, BA, Boston, MA (Presenter)
- A14.**                   **Sharps Exposures among Otolaryngology-Head and Neck Surgery Residents**  
Patrick G. Maiberger, MD, Richmond, VA; Angela S. Peng, MD, Richmond, VA; Evan R. Reiter, MD, Richmond, VA
- A15.**                   **HTLV Associated T-cell Lymphoma Presenting as a Sinus Mass with Proptosis: A Case Report**  
Christopher A. Mascarinas, MD, Brooklyn, NY; Neil L. Prufer, MD, Brooklyn, NY; Matthew B. Hanson, MD, Brooklyn, NY
- A16.**                   **Increased Estrogen and the Risk of Papillary Thyroid Cancer**  
Vikas Mehta, MD, New York, NY; Sarah L. Cooke, BS, Tallahassee, FL; Theodore Scott Nowicki, BS, Valhalla, NY; Theresa Tran, MD, New York, NY; Jan Geliebter, PhD, Valhalla, NY; Mark S. Persky, MD\*, New York, NY
- A17.**                   **Techniques to Achieve Minimally Invasive Endoscopic Excision of Second Branchial Cleft Cysts**  
Benjamin C. Paul, MD, New York City, NY; David J. Myssiorek, MD\*, New York, NY

**A18. Occult Metastatic Papillary Thyroid Carcinoma Presenting as an Isolated Lateral Cervical Cyst**

Francisco G. Pernas, MD, Galveston, TX; Alejandro Vazquez, BS, Miami, FL; Sandeep P. Dave, MD, Miami, FL; Carlos S. Duque, MD, Miami, FL; Rita Bhatia, MD, Miami, FL; Donald T. Weed, MD\*, Miami, FL

**A19. Massive Enlargement and Complete Ossification of a Stylohyoid Chain with Associated Neck Pain**

Rajanya S. Petersson, MD, Rochester, MN; Kerry D. Olsen, MD\*, Rochester, MN

**A20. Improving Methods of Resident Selection**

Jeremy D. Prager, MD, Cincinnati, OH; Charles M. Myer IV, MD, Cincinnati, OH; Kay M. Hayes, MPH, Cincinnati, OH; Charles M. Myer III, MD\*, Cincinnati, OH; Myles L. Pensak, MD\*, Cincinnati, OH

**A21. Unusual Presentation of an Idiopathic Deep Lobe Parotid Sialocele**

Rahul Seth, MD, Cleveland, OH; Philip D. Knott, MD, Cleveland, OH

**A22. Post-Tonsillectomy Hemorrhage: A National Perspective**

Shankar K. Sridhara, MD, Washington, DC; Rahul K. Shah, MD\*, Washington, DC; Lina Lander, ScD, Omaha, NE

**A23. Thyroglossal Duct Cyst with Intralaryngeal Extension**

Chaz L. Stucken, MD, New York, NY; Vivek V. Gurudutt, MD, New York, NY

**A24. Novel Suction System Free from Obstruction**

Hiroo Umeda, MD PhD, Shizuoka, Japan; Shin-Ichi Kanemaru, MD PhD, Osaka, Japan; Juichi Ito, MD PhD, Kyoto, Japan

**Head and Neck**

**A25. Securing Feeding Tubes in Head and Neck Surgery Patients: Septal Suture or Bridal Technique**

Samer Al-khudari, MD, Detroit, MI; Lisa Morris, MD, Portland, OR; Tammara Watts, MD, Portland, OR; Tamer Ghanem, MD PHD, Detroit, MI; Mark Wax, MD, Portland, OR

**A26. Ear Melanoma: The Sunbelt Melanoma Trial**

Adam C. Augenstein, MD, Louisville, KY; Jeffrey M. Bumpous, MD\*, Louisville, KY; Kelly M. McMasters, MD PhD, Louisville, KY

- A27.** **Factors Determining the Need for Thyroidectomy during Laryngectomy for Squamous Cell Carcinoma**  
Brooke Nicole Bosley, MD, Washington, DC; Ameet K. Grewal, BS, Washington, DC; Lynn F. Huang, MD, Washington, DC; Stanley H. Chia, MD, Washington, DC
- A28.** **Invasive Aspergillus Masquerading as Chronic Otitis Externa: A Case Report and Review of the Literature**  
Nipun Chhabra, MD, Cleveland, OH; Philip E. Zapanta, MD, Washington, DC; Nader Sadeghi, MD FRCSC, Washington, DC
- A29.** **Chondrosarcoma of the Larynx and Trachea: A Report of Two Rare Cases and Review of the Literature**  
E. Ashlie Darr, MD, New York, NY; Bruce M. Wenig, MD, New York, NY; Mark L. Urken, MD, New York, NY
- A30.** **Use of the Harmonic Scalpel in Head and Neck Free Flap Harvesting**  
Nichole R. Dean, DO, Birmingham, AL; Eben L. Rosenthal, MD\*, Birmingham, AL; Bruce A. Morgan, MD, Birmingham, AL; J. Scott Magnuson, MD\*, Birmingham, AL; William R. Carroll, MD, Birmingham, AL
- A31.** **Use of Excimer Laser for Dilation of a Benign Esophageal Stricture**  
Nitasha D. Garcia, MD, Temple, TX; Clifford J. Buckley, MD, Temple, TX; Timothy P. Pfanner, MD, Temple, TX; Scott I. Reznik, MD, Temple, TX; Reginald F. Baugh, MD, Toledo, OH
- A32.** **The Calcium Challenge Test in Determining Secondary Hyperparathyroidism in Post-Gastric Bypass Patients**  
Michelle Soltan Ghostine, MD, Loma Linda, CA; Alfred Anthony Simental, MD, Loma Linda, CA
- A33.** **Volume Based Trends in Surgical Care of Patients with Parotid Cancer**  
Christine G. Gourin, MD\*, Baltimore, MD; James H. Clark, MBBCh, Baltimore, MD (Presenter); Robert E. Bristow, MD, Baltimore, MD; Arlene A. Forastiere, MD, Baltimore, MD; Wayne M. Koch, MD\*, Baltimore, MD
- A34.** **Severe Symptomatic Hypocalcemia following Total Thyroidectomy after Roux-en-Y Gastric Bypass**  
Justin A. Gross, BS, Grand Forks, ND; Steven M. Olsen, MD, Rochester, MN; Cody A. Koch, MD, Rochester, MN; Eric J. Moore, MD\*, Rochester, MN
- A35.** **Skull Base Osteoradionecrosis following Radiotherapy for Acromegaly**  
Michael S. Harris, MD, Indianapolis, IN; Louis T. Moore, MD, Indianapolis, IN; Don-John Summerlin, DMD, Indianapolis, IN; Michael B. Pritz, MD, Indianapolis, IN; Michael G. Moore, MD, Indianapolis, IN

- A36.**            **Alcohol Induces Reactive Oxygen Species and Migration in Keratinocytes**  
Alex W. Helkin, BA, Stony Brook, NY; Hoang-Lan T. Nguyen, PhD, Stony Brook, NY;  
Ghassan J. Samara, MD, Stony Brook, NY
- A37.**            **Lymphomatous Neoplasms within the Carotid Sheath**  
Vivian Jolley, BA MBS, Atlanta, GA; Ryan J. Li, MD, Baltimore, MD; Jeremy D.  
Richmon, MD, Baltimore, MD
- A38.**            **The Outcomes of Intraoperative Radiation Therapy Use in the Treatment of  
Head and Neck Cancers**  
Nathan D. Joos, MD, Louisville, KY; Beth N. McNulty, MD, Louisville, KY; Brian B.  
Coleman, MD, Louisville, KY; Jeffrey M. Bumpous, MD\*, Louisville, KY
- A39.**            **Routine Surveillance Imaging following Chemoradiation for Advanced Stage  
Oropharyngeal Carcinoma: Better Than Clinical Exam?**  
Gerald T. Kangelaris, MD MBA, San Francisco, CA; Sue S. Yom, MD, San  
Francisco, CA; Kim Huang, MD, San Francisco, CA; Steven J. Wang, MD\*, San  
Francisco, CA
- A40.**            **The Protective Efficacy of Basic Fibroblast Growth Factor in Radiation  
Damaged Salivary Glands of Mouse**  
Tsuyoshi Kojima, MD, Kyoto, Japan; Shinichi Kanemaru, PhD MD, Kyoto, Japan;  
Shigeru Hirano, PhD MD, Kyoto, Japan; Ichiro Tateya, PhD MD, Kyoto, Japan; Juichi  
Ito, PhD MD, Kyoto, Japan
- A41.**            **The Use of Direct Autofluorescence in Detection of Oral Lesions**  
Jessica L. Kulak, MD, Miami, FL; Elizabeth J. Franzmann, MD, Miami, FL
- A42.**            **Institutional Review of All Cause and Cancer Related Mortality in Head and  
Neck Cancer Patients with Preexisting Diabetes Mellitus**  
Ryan J. Li, MD, Baltimore, MD; Jeremy D. Richmon, MD, Baltimore, MD
- A43.**            **Sarcoidosis of the Thyroid: A Case Report and Review of the Literature**  
Renee L. Makowski, MD, Tacoma, WA; David J. Peterson, DO, Tacoma, WA;  
Kerry L. O'Brien, MD, Tacoma, WA; Wayne J. Harsha, MD, Tacoma, WA
- A44.**            **Free Tissue Transfer in Solid Organ Transplant Patients**  
Matthew W. Miller, MD, Portland, OR; Mark K. Wax, MD, Portland, OR; Steven B.  
Cannady, MD, Rochester, NY; Eben L. Rosenthal, MD\*, Birmingham, AL

- A45.** **A Novel Classification System for Perineural Invasion: Histologic Subcategory Relates to Patient Outcome**  
Mia E. Miller, MD, Los Angeles, CA; Beth Palla, MD, Los Angeles, CA; David A. Elashoff, PhD, Los Angeles, CA; Chi K. Lai, MD, Los Angeles, CA; Maie A. St. John, MD PhD, Los Angeles, CA
- A46.** **Algorithms for Difficult Airway in Adults: The Role of Otolaryngologist**  
Atta Mohyuddin, MD FRCS(Ed), London, UK; Nasir Islam Bhatti, MD, Baltimore, MD; David Feller Kopmann, MD, Baltimore, MD; Lauren Berkow, MD, Baltimore, MD
- A47.** **Excision of a Recurrent Oropharyngeal Malignant Lesion Utilizing a Minimally Invasive Transoral Robotic Surgical (TORS) Technique**  
Lucia S. Olarte, MD, New York, NY; Karan Dhir, MD, New York, NY; Eric M. Genden, MD\*, New York, NY
- A48.** **Treatment Response of Esthesioneuroblastoma to Neoadjuvant Chemotherapy**  
Aric K. Park, MD, Boston, MA; Kevin Taheri, BA, Houston, TX; Richard O. Wein, MD, Boston, MA
- A49.** **Transnasal Panendoscopy for Cancer Staging: Feasibility and Evaluation of Outcomes**  
Sera Pena, BS, New Orleans, LA; Vladimir Zuzukin, MD, New Orleans, LA; David D. Beahm, MD, New Orleans, LA; Dan W. Nuss, MD, New Orleans, LA; Rohan R. Walvekar, MD, New Orleans, LA
- A50.** **Use of Quantitative Immunohistochemistry to Identify Predictors of Response in Patients with Advanced Thyroid Cancer Treated with Sorafenib**  
Evan R. Ransom, MD, Philadelphia, PA; Jason M. Leibowitz, Merion Station, PA; William M. Lee, MD, Philadelphia, PA; Andrea B. Troxel, MD, Philadelphia, PA; Michael D. Feldman, MD PhD, Philadelphia, PA; Marcia S. Brose, MD PhD, Philadelphia, PA
- A51.** **Correlation of Radiographic and Dermal Pathologic Findings in Head and Neck Cancer**  
Matthew E. Spector, MD, Ann Arbor, MI; Kathleen K. Gallagher, MD, Ann Arbor, MI; Jonathan B. McHugh, MD, Ann Arbor, MI; Suresh K. Mukherji, MD, Ann Arbor, MI
- A52.** **Transoral Resection of Parapharyngeal Space Lipoma**  
Thomas A. Stewart, MD, Loma Linda, CA; Michael D. Sim, BA, Loma Linda, CA; Oscar D. Garcia, MD, Loma Linda, CA; Paul D. Kim, MD, Loma Linda, CA
- A53.** **Thyroid Fine Needle Aspiration Biopsy: Optimizing the Technique**  
J. Tee Todd, BS, Augusta, GA; David J. Terris, MD\*, Augusta, GA; Michelle D. Reid-Nicholson, MD, Augusta, GA; Paul W. Biddinger, MD, Augusta, GA; Edward A. Chin, MD, Augusta, GA; Melanie W. Seybt, MD, Augusta, GA

**A54.**            **Management of the Difficult Papilla: Current Techniques and Review of Literature**  
Rohan R. Walvekar, MD, New Orleans, LA; Barry Schaitkin, MD, Pittsburgh, PA

**A55.**            **A Rare Case of Eccrine Spiradenoma of the Upper Lip**  
Denise Rae Wong, MD, Minneapolis, MN; Douglas A. Olson, MD, St. Paul, MN;  
Harley S. Dresner, MD, St. Paul, MN

**A56.**            **Follicular Dendritic Cell Sarcoma: A Differential in Neck Mass**  
Estelle S. Yoo, MD, Shreveport, LA; Jaiyeola O. Thomas, MD, Shreveport, LA;  
Patrick A. Adegboyega, MD, Shreveport, LA; Timothy S. Lian, MD, Shreveport, LA

### **Laryngology-Bronchoesophagology**

**A57.**            **Airway Collapse Due to Unsuspected Epiglottic Cyst**  
Egbert J. de Vries, MD, Weston, FL; Johanna Serrano, BS, Weston, FL

**A58.**            **Analysis of Swallowing Function Using DIPP-Motion Pro 2D**  
Kazunori Fujiwara, MD, Yonago, Japan; Katsuyuki Kawamoto, MD, Yonago, Japan;  
Hiroya Kitano, MD, Yonago, Japan

**A59.**            **Laryngopharyngeal Reflux and Post-Intubation Dysphonia**  
Andrew R. Hetland, MD, Madison, WI; Charles N. Ford, MD\*, Madison, WI;  
Nadine P. Connor, PhD, Madison, WI

**A60.**            **Surgical Treatment of MALT Lymphoma of the Larynx: Beyond Biopsy**  
Ruwan Kiringoda, BA, Columbus, OH; Laura A. Matrka, MD, Columbus, OH  
(Presenter); Brad W. deSilva, MD, Columbus, OH

**A61.**            **Two Staged Laryngeal Regeneration Using Tissue Engineering Techniques in a Canine Model**  
Yoshiharu Kitani, MD, Kyoto, Japan; Shin-ichi Kanemaru, MD PhD, Osaka, Japan;  
Shigeru Hirano, MD PhD, Kyoto, Japan; Satoshi Ohno, MD, Kyoto, Japan; Tsuyoshi Kojima, MD, Kyoto, Japan; Juichi Ito, MD PhD, Kyoto, Japan

**A62.**            **Three Dimensional Compartmentalization of Myosin Heavy Chain Isoforms in the Human Thyroarytenoid Muscle**  
Laura A. Matrka, MD, Columbus, OH; Peter J. Reiser, PhD, Columbus, OH; L. Arick Forrest, MD, Columbus, OH; Brad W. deSilva, MD, Columbus, OH

**A63.**            **Use of 3D Reconstruction of CT Images in Surgical Planning of Laryngeal Fracture Repair**  
Amy K. Mettman, MD, Dallas, TX; Ted Mau, MD PhD, Dallas, TX

**A64.**            **Near Total Laryngectomy for Functional Preservation of Recurrent Laryngeal Nerve Branches for Potential Future Laryngeal Transplantation**  
Randal C. Paniello, MD\*, St. Louis, MO

**A65.**            **Recurrent Supraglottic Pyogenic Granuloma, Treated with Excision and Topical Mitomycin C**  
Katherine S. Perry, BS, Washington, DC; Joseph F. Goodman, MD, Washington, DC; Steven A. Bielamowicz, MD\*, Washington, DC

**A66.**            **Saccular Cysts: A Current Review of Characteristics and Management**  
VyVy N. Young, MD, Pittsburgh, PA; Libby J. Smith, DO, Pittsburgh, PA

## **Otology**

**A67.**            **Temporal Bone Simulator as a Training and Assessment Tool for Temporal Bone Dissection**  
Wes A. Allison, MD, Louisville, KY; Arun K. Gadre, MD, Louisville, KY; Sanford T. Hamilton, MD, Salt Lake City, UT

**A68.**            **Head Shaking Nystagmus Is Associated with Greater Self-Perceived Dizziness Handicap in Unilateral Peripheral Vestibulopathy**  
Simon I. Angeli, MD\*, Miami, FL; Sandra L. Velandia, AuD, Miami, FL; Hillary Snapp, AuD, Miami, FL

**A69.**            **Bilateral Facial Nerve Paralysis Associated with Acute Otomastoiditis: A Case Report**  
Bob B. Armin, MD, Los Angeles, CA; Audrey Calzada, MD, Los Angeles, CA; Akira Ishiyama, MD, Los Angeles, CA

**A70.**            **Cochlear Implantation following a Major Natural Disaster**  
Moises A. Arriaga, MD MBA\*, New Orleans, LA; Tammy H. Crabtree, MCD CCC-A, New Orleans, LA; Herbert W. Marks, MD, New Orleans, LA; Dennis d'Antoni, MD, New Orleans, LA

**A71.**            **Novel Method of External Auditory Canal Atresia/Stenosis Repair**  
Joshua R. Bedwell, MD, New York, NY; Ana H. Kim, MD, New York, NY; Christopher J. Linstrom, MD\*, New York, NY; George Alexiades, MD, New York, NY; Simon C. Parisier, MD\*, New York, NY

- A72.**            **Preauricular Infratemporal Approach for Removal of a Tophaceous Calcium Pyrophosphate Mass of the Infratemporal Fossa: Case Report and Review of the Literature**  
Alexander G. Bien, MD, Los Angeles, CA; Gregory P. Lekovic, MD PhD, Los Angeles, CA; Rick A. Friedman, MD PhD\*, Los Angeles, CA
- A73.**            **Treatment of Glomus Jugulare Tumors with Gamma Knife Radiosurgery**  
Philip G. Chen, MD, Charlottesville, VA; James H. Nguyen, BA, Charlottesville, VA; Jason P. Sheehan, MD PhD, Charlottesville, VA; Spencer C. Payne, MD, Charlottesville, VA; George T. Hashisaki, MD\*, Charlottesville, VA
- A74.**            **The Effectiveness of Split Thickness Skin Grafting in Canal Wall Down Tympanomastoidectomy**  
Jamey L. Cost, MD, Morgantown, WV; Stephen J. Wetmore, MD\*, Morgantown, WV
- A75.**            **Audiologic and Otologic Manifestations of Hutchinson-Gilford Progeria Syndrome**  
Elizabeth A. Guardiani, MD, Washington, DC; Christopher K. Zalewski, MA CCC-A, Bethesda, MD; Carmer C. Brewer, AuD, Bethesda, MD; Melissa A. Merideth, MD MPH, Bethesda, MD; Wendy J. Introne, MD, Bethesda, MD; Hung J. Kim, MD, Bethesda, MD
- A76.**            **Operative Management of Posterior Semicircular Canal Dehiscence from a High Jugular Bulb**  
Samuel P. Gubbels, MD, Madison, WI; Paul W. Lenkowski, MD, Iowa City, IA; Marlan R. Hansen, MD\*, Iowa City, IA
- A77.**            **The Course of the Facial Nerve in Evaluation of Congenital Aural Atresia Repair Candidacy**  
Patrick J. Haas, AB, Cincinnati, OH; Daniel I. Choo, MD\*, Cincinnati, OH
- A78.**            **Residual Recurrence following Staged Canal Wall Up Tympanoplasty for Middle Ear Cholesteatoma**  
Yasuyuki Y. Hinohira, MD, Tokyo, Japan; Naoaki N. Yanagihara, MD, Matsuyama, Ehime Japan; Masahiro M. Komori, MD, Nankoku, Kochi Japan; Naohito N. Hato, MD, Toon, Ehime Japan
- A79.**            **When Do We Choose the "Better Balance" Ear for Cochlear Implants?**  
Sarah C. Hugh, BAsC, Toronto, ON Canada; David B. Shipp, MA FAAA, Toronto, ON Canada; Joseph M. Chen, MD FRCS, Toronto, ON Canada; Julian M. Nedzelski, MD FRCS\*, Toronto, ON Canada; Vincent Y.W. Lin, MD FRCS, Toronto, ON Canada
- A80.**            **Facial Nerve Paralysis following Transtympanic Penetrating Middle Ear Trauma**  
Alfred Marc C. Illoreta, MD, New York, NY; Benjamin Malkin, MD, New York, NY

- A81.**            **Acquired Cholesteatoma Presenting as a Large Pars Squamosa Temporal Bone Mass**  
Eric M. Jaryszak, MD PhD, Washington, DC; Christopher Vanison, MS, Washington, DC; Amanda L. Yaun, MD, Washington, DC; Diego A. Preciado, MD PhD, Washington, DC
- A82.**            **Otitis Media with Effusion after Surgery under General Anesthesia**  
Rie Kanai, MD, Osaka, Japan; Ken-ichi Kaneko, MD PhD, Nagasaki, Japan; Masanao Kishimoto, MD, Fukui, Japan; Yumi Ito, MD, Fukui, Fukui Japan
- A83.**            **Bone Destructive Mechanisms of Cholesteatoma**  
Shin-ichi Kanemaru, MD PhD, Osaka, Japan; Yayoi Kikkawa, MD PhD, Kyoto, Japan; Juichi Ito, MD PhD, Kyoto, Japan
- A84.**            **Facial Schwannoma: Clinical Presentation and Surgical Management**  
Matthew L. Kircher, MD, Maywood, IL; John P. Leonetti, MD, Maywood, IL; Sam J. Marzo, MD, Maywood, IL
- A85.**            **A Model for Training and Assessment of Myringotomy and Tube Placement Skills**  
Sonya Malekzadeh, MD, Washington, DC; Brett Wilson, RN, Washington, DC; Greg Milmoie, MD, Washington, DC
- A86.**            **Cervical Plexus Block in Bilateral Simultaneous Cochlear Implants: An Innovative Idea We Won't Adopt**  
Mazin A. Merdad, MD, Toronto, ON Canada; Karen A. Gordon, PhD, Toronto, ON Canada; Blake C. Papsin, MD\*, Toronto, ON Canada
- A87.**            **CO2 Laser Myringoplasty**  
Jason T. Miller, MD, Durham, NC; David M. Kaylie, MD\*, Durham, NC; Debara L. Tucci, MD\*, Durham, NC
- A88.**            **Pneumolabyrinth and Pneumocochlea--Natural History, Interventions, and Outcomes**  
Jacob S. Minor, MD, Aurora, CO; Vincent D. Eusterman, MD, Denver, CO
- A89.**            **Correlation of Unilateral Sporadic Vestibular Schwannoma Growth Rates with Genetic and Immunohistochemical Abnormalities**  
Atta Mohyuddin, MD FRCS FRCS(Ed), London, UK; David Gareth Evans, MD, Manchester, Lancashire UK; Richard T. Ramsden, MD, Manchester, Lancashire UK

- A90.** **Inverting Papilloma of the Middle Ear: A Case report and Review of the Literature**  
Brendan P. O'Connell, MS, Charleston, SC; Alejandro Rivas, MD, Nashville, TN (Presenter); George B. Wanna, MD, Nashville, TN; David S.C. Haynes, MD\*, Nashville, TN
- A91.** **Stapes Surgery in the Pediatric Population: Our 20 Year Experience**  
Rajanya S. Petersson, MD, Rochester, MN; Matthew L. Carlson, MD, Rochester, MN; Charles W. Beatty, MD\*, Rochester, MN; Colin L. W. Driscoll, MD, Rochester, MN
- A92.** **Implantation of the Common Cavity Malformation May Prevent Meningitis**  
Benjamin R. Roman, MD, New York, NY; Daniel H. Coelho, MD, Richmond, VA; J. Thomas Roland Jr., MD\*, New York, NY
- A93.** **Vestibular Ocular Reflex Response in Caspase-3 Knockout Mice**  
Eric S. Rosenberger, BA, Galveston, TX; Tomoko A. Makishima, MD PhD, Galveston, TX; Scott J. Wood, PhD, Galveston, TX
- A94.** **Mitotic Blockade with Ionizing Radiation: A New Means to Investigate Hair Cell Regeneration**  
Mark S. Schneyer, MD, Charlottesville, VA; George T. Hashisaki, MD\*, Charlottesville, VA; Jeffrey T. Corwin, PhD, Charlottesville, VA
- A95.** **Quality of Life after Treatment for Acoustic Neuroma Using the New PANQOL Scale**  
Brian T. Shaffer, MD, Philadelphia, PA; Michael S. Cohen, MD, Pittsburgh, PA; Douglas C. Bigelow, MD, Philadelphia, PA; Michael J. Ruckenstein, MD\*, Philadelphia, PA
- A96.** **A Prospective Study of Cardiovascular Risk Factors and Incident Hearing Loss in Men**  
Josef Shargorodsky, MD, Boston, MA; Roland D. Eavey, MD MS\*, Nashville, TN; Sharon G. Curhan, MD ScM, Boston, MA; Gary G. Curhan, MD ScD, Boston, MA
- A97.** **Frequency of mtDNA Mutations in Nonsyndromic Hearing Loss**  
Richard J. Vivero, MD, Miami, FL; Xiaomei Ouyang, MD, Miami, FL; Denise Yan, MD, Miami, FL; Simon I. Angeli, MD\*, Miami, FL; Xue Z. Liu, MD, Miami, FL
- A98.** **Anesthetic Complications Associated with Pediatric Cochlear Implantation**  
Joseph S. Yeh, MD, New York, NY; Jung T. Kim, MD, New York, NY; Anil K. Lalwani, MD\*, New York, NY

## **Pediatrics**

**A99.**

**A Pediatric Case of Gorham's Disease with Extensive Maxillofacial Involvement**

Samer Al-khudari, MD, Detroit, MI; Mark Toma, BS, Detroit, MI; Vanessa Schweitzer, MD\*, Detroit, MI

**A100.**

**Neck Soft Tissue Perineurioma in a Child**

Sean Callahan, MD, Dallas, TX; Seckin Ulualp, MD, Dallas, TX (Presenter)

**A101.**

**Retained Suture Needle after Tonsillectomy**

Sherry L. Fishkin, MD, Brooklyn, NY; Michael C. Singer, MD, Brooklyn, NY

**A102.**

**An Unusual Lateral Nasal Wall Mass: Heterotopic Glial Tissue**

Eric Flavill, MD, Dallas, TX; Seckin Ulualp, MD, Dallas, TX (Presenter)

**A103.**

**Unexpected Pathologies in Pediatric Parotid Lesions: Management Paradigms Revisited**

Eric M. Jaryszak, MD PhD, Washington, DC; Rahul K. Shah, MD\*, Washington, DC; Rebecca J. Howell, MD, Washington, DC; Nancy M. Bauman, MD, Washington, DC; Diego A. Preciado, MD PhD, Washington, DC

**A104.**

**An Unusual Case of Nasal Pyriform Aperture Stenosis**

Kailash Narasimhan, MD, Detroit, MI; James M. Coticchia, MD, Detroit, MI; Ryan George, BS, Detroit, MI

**A105.**

**Endoscopic Coblation of Advanced Juvenile Nasopharyngeal Angiofibroma**

Rosser K. Powitzky, MD, Oklahoma City, OK; Brandon W. Pierson, MS, Oklahoma City, OK; German Paul Digoy, MD, Oklahoma City, OK; John R. Houck, MD, Oklahoma City, OK

**A106.**

**Utility of the Followup CT Scan in Pediatric Deep Neck Infections**

Andrew J. Tompkins, MD, Columbus, OH; Charles A. Elmaraghy, MD, Columbus, OH

## **Plastics-Aesthetics**

**A107.**

**Spitz Lesions: A Diagnostic and Clinicopathologic Dilemma**

Neda Ahmadi, MD, Washington, DC; Steven P. Davison, MD FACS, Washington, DC

- A108.** **Three Dimensional CT Derived Custom Implant for Repair of Facial Defects**  
Jason S. Hamilton, MD, Los Angeles, CA; Hootan Zandifar, MD, Los Angeles, CA;  
Ryan F. Osborne, MD\*, Los Angeles, CA
- A109.** **Reconstruction of Complex Nasal Dorsal Sidewall Defects**  
Thorsen W. Haugen, MD, Danville, PA; John L. Frodel, MD, Danville, PA
- A110.** **The Efficacy of Rhinoplasty Alone in Facial Rejuvenation**  
Kian Karimi, MD, Gainesville, FL; Robert T. Adelson, MD, Gainesville, FL
- A111.** **Total Excision of an Intraosseous Zygomatic Hemangioma via Subciliary Approach**  
Linda N. Lee, MD, Boston, MA; Kevin S. Emerick, MD, Boston, MA; David A. Kieff, MD, Boston, MA
- A112.** **Giant Chondroid Syringoma of the Nose**  
Linda T. Nguyen, BS, San Diego, CA; Jennifer Kum, MD, San Diego, CA; Chris M. Bergeron, MD, San Diego, CA
- A113.** **Surgical Management of the Paralyzed Face in Neurofibromatosis Type 2 Patients**  
Kalpesh T. Vakharia, MD, Boston, MA; Scott Randall Plotkin, MD PhD, Boston, MA;  
Mack Cheney, MD, Boston, MA; Tessa Hadlock, MD, Boston, MA
- A114.** **Two Stage Nasolabial Flaps for Facial Reconstruction: Revisiting the Three Week Rule for Pedicle Division**  
Jeremy B. White, MD, Washington, DC; Steven D. Macht, MD, Washington, DC
- A115.** **Septal Perforation in Crohn's Disease**  
Ahmed A. Younes, MBBCh MSc, Rochester, MN; Oren Friedman, MD, Rochester, MN
- A116.** **Subcutaneous Carboxy Therapy Injection for Aesthetic Improvement of Scars**  
Hootan Zandifar, MD, Los Angeles, CA; Raphael Nach, MD, Los Angeles, CA;  
Jason S. Hamilton, MD, Los Angeles, CA

### **Sinus-Rhinology**

- A117.** **Comparison of HemoStase versus FloSeal in Controlling Bleeding during Endoscopic Sinus Surgery: A Non-Inferiority Randomized Controlled Clinical Trial**  
Jason A. Beyea, MD PhD, London, ON Canada; Brian W. Rotenberg, MD, London, ON Canada

- A118.**      **Influence of Itraconazole on T-cell Mediated Deviation**  
Elizabeth W. Chance, MD, Charlottesville, VA; Spencer C. Payne, MD, Charlottesville, VA; Larry L. Borish, MD, Charlottesville, VA
- A119.**      **Unusual Presentations of Sinonasal Undifferentiated Carcinoma**  
Michelle Soltan Ghostine, MD, Loma Linda, CA; Samer S. Ghostine, MD, Los Angeles, CA; Mark R. Rowe, MD, Loma Linda, CA; Dennis F. Chang, MD, Loma Linda, CA
- A120.**      **Surgical Management of Compressive Optic Neuropathy Due to Orbital Osseous Lesions**  
Gregg H. Goldstein, MD, New York, NY; Eunice E. Park, MD MPH, New York, NY; Ebrahim Elahi, MD, New York, NY; Michael R. Shohet, MD, New York, NY
- A121.**      **CT and MR Imaging Characteristics of Acute Fulminant Invasive Fungal Sinusitis**  
Eli R. Groppo, MD, San Francisco, CA; Ashley H. Aiken, MD, Atlanta, GA; Ivan H. El-Sayed, MD, San Francisco, CA; Christine M. Glastonbury, MBBS, San Francisco, CA
- A122.**      **Balloon Sinuplasty in the Treatment of Intracranial Abscess**  
Luis G. Izquierdo, MD, Bethesda, MD; Jason L. Acevedo, MD, Silver Spring, MD; Jeffrey L. Cutler, MD, Washington, DC
- A123.**      **Minimally Invasive Endoscopic Septoplasty: A Review of Technique and Outcomes in 296 Cases**  
Sashikanth Jonnalagadda, MD, Burlington, MA; Vivian Yu, MD, Burlington, MA; Peter J. Catalano, MD, Burlington, MA
- A124.**      **Subpopulations of Lymphocytes in Nasal Polyps**  
Daniel A. Larson, MD, Norfolk, VA; Joseph K. Han, MD, Norfolk, VA; Marc Silverberg, MD, Norfolk, VA; Rachel G. Moebus, BS, Norfolk, VA
- A125.**      **Fibromyxomatous Spindle Cell Neoplasm of the Ethmoid Sinus with Extension into the Optic Cavity: Report of a Case and Review of the Literature**  
Joshua M. Levy, BS, New Orleans, LA; Christian P. Hasney, MD, New Orleans, LA; Paul L. Friedlander, MD FACS, New Orleans, LA; Michael S. Ellis, MD FACS, New Orleans, LA; Mary A. Fazekas-May, MD FACS, New Orleans, LA
- A126.**      **Frontal Sinus Encephalocele Masquerading as a Nasal Polyp and Mucocele: Beware the Posterior Table Defect**  
Renee L. Makowski, MD, Tacoma, WA; John J. Simmer, MD, Tacoma, WA

**A127.**

**Transpalatal Greater Palatine Canal Injection: How to Bend the Needle for Pediatric Sinus Surgery?**

Kibwei A. McKinney, MD, Chapel Hill, NC; Michael E. Stadler, MD, Chapel Hill, NC; Yu-Tung C. Wong, MD, Chapel Hill, NC; Carlton J. Zdanski, MD, Chapel Hill, NC; Charles S. Ebert, MD MPH, Chapel Hill, NC; Adam M. Zanation, MD, Chapel Hill, NC

**A128.**

**Nasoseptal "Rescue" Flap: A Novel Modification of the Nasoseptal Flap Technique for Pituitary Surgery**

Carlos M. Rivera-Serrano, MD, Pittsburgh, PA; Ricardo L. Carrau, MD\*, Pittsburgh, PA; Carl H. Snyderman, MD, Pittsburgh, PA; Daniel Prevedello, MD, Pittsburgh, PA; Kassam B. Amin, MD, Pittsburgh, PA; Adam Zanation, MD, Chapel Hill, NC

**A129.**

**Endoscopic Transnasal Transsphenoidal Approaches to the Cavernous Sinus: An Anatomical Dissection Study, Report on Patients, and Comparison to Transcranial Approaches**

Madeleine R. Schaberg, MD, New York, NY; Vijay K. Anand, MD\*, New York, NY; Theodore H. Schwartz, MD, New York, NY; Jonathan A. Roth, MD, New York, NY; Justin F. Fraser, MD, New York, NY

**A130.**

**Nasoseptal Flap Repair of Traumatic Skull Base Cerebrospinal Fluid Leaks**

Stephen A. Wheless, BS, Chapel Hill, NC; Ricardo L. Carrau, MD\*, Pittsburgh, PA; Carl H. Snyderman, MD, Pittsburgh, PA; Anand V. Germanwala, MD, Chapel Hill, NC; Adam M. Zanation, MD, Chapel Hill, NC