

**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, Philadelphia, PA
- 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; Kazunori Fujiwara, MD, Yonago, Tottori Japan (Presenter)

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

Kouros Parham, MD PhD, Farmington, CT; Yvonne L. Richardson, MD, Farmington, CT (Presenter); 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; Quyen T. Nguyen, MD PhD, La Jolla, CA (Presenter); 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

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 (Fellows 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 **The Final Dermal Closure of the Cleft Lip Deformity**
Daniel Luke Crozier, MD, Syracuse, NY; Joshua A. Demke, MD, Lubbock, TX;
Sherard A. Tatum, MD, Syracuse, NY

10:51 **WITHDRAWN--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 **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; Michael Jacob Loochtan, BA, Toledo, OH;
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 Caggiula, 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. Pruffer, 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 Sialoceles
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; Daniel R. Clayburgh, MD PhD, Portland, OR; 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.** **WITHDRAWN--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**
Ruan 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.** **WITHDRAWN--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, BSc, Toronto, ON Canada; David B. Shipp, MA FAAA, Toronto, ON Canada; Joseph M. Chen, MD FRCSC, Toronto, ON Canada; Julian M. Nedzelski, MD FRCSC*, Toronto, ON Canada; Vincent Y.W. Lin, MD FRCSC, Toronto, ON Canada
- A80. Facial Nerve Paralysis following Transtympanic Penetrating Middle Ear Trauma**
Alfred Marc C. Iloreta, 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, 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.** **Withdrawn--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; William C. Faquin, MD PhD, 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