CONTENTS

THE
Laryngoscope
FOUNDED IN 1896

VOLUME 131 | NUMBER 6 | JUNE 2021 | www.laryngoscope.com

EDITORIAL

1195

New Editorial Board Members for the Laryngoscope
Samuel H. Selesnick, MD

TRILOGICAL SOCIETY BEST PRACTICE

1196

What Is the Best Approach to Prevent Advanced-Stage Pressure Injuries After Pediatric Tracheotomy?
Christopher B. Sullivan, MD; Michael D. Puricelli, MD; Richard J. Smith, MD

1198

Is Olfactory Training Effective Treatment for Postinfectious Smell Loss?
Aria Jafari, MD; Ashton E. Lehmann, MD; Ralph Metson, MD

ALLERGY, RHINOLOGY, AND IMMUNOLOGY

1200

Association Between Human Papilloma Virus Infection and Malignant Sinonasal Inverted Papilloma
Ronghua Ding, BS; Qiaorong Sun, MS; Yong Wang, MD

1206

Unbiased Measure of General Quality of Life in Chronic Rhinosinusitis Reveals Disease Modifiers
Madison V. Epperson, BA; Adam C. McCann, MD; Katie M. Phillips, MD; David S. Caradonna, MD, DMD; Stacey T. Gray, MD; Abadn R. Sedaghat, MD, PhD

1212

Is Ethmoidal Air Cell Count Relevant in Chronic Rhinosinusitis?
Eva C. Meier, MMEd; Stefanie L. Terryn, MD; Gregori H. A. Binz, MMEd; Christian M. Meerwein, MD; Michael B. Soyka, MD

E-Only Articles

E1750

Single Layer Biomaterial Repair of Frontal Sinus Encephalocele in a Pediatric Patient
Brooke M. Su-Velez, MD, MPH; David W. Hsu, MD; Alisha N. West, MD; Jeffrey D. Sub, MD

E1753

Impact of Particulate Matter on the Clinical Characteristics of Rhinitis
Jin Youp Kim, MD; Dong Su Lee, MS; Hyun-Joon Woo, MD; Hyung Gu Kim, MD; Bu-Soon Son, PhD; Moo Kyun Park, MD, PhD; Seung-No Hong, MD

E1760

Regional Peak Mucosal Cooling Predicts Radiofrequency Treatment Outcomes of Nasal Valve Obstruction
Zhenxing Wu, PhD; Jillian P. Krebs, BS; Barak M. Spector, BS; Bradley A. Otto, MD; Kai Zhao, PhD; Alexander A. Farag, MD

E1770

The Effect of Dupilumab on Intractable Chronic Rhinosinusitis with Nasal Polyps in Japan
Shigeharu Fujieda, MD, PhD; Shoji Matsune, MD, PhD; Sachio Takeno, MD, PhD; Mikiya Asako, MD, PhD; Makiko Takeuchi; Hiroayuki Fujita, MD, PhD; Yoshinori Takahashi, MS; Nikhil Amin, MD; Yamo Deniz, MD; Paul Rowe, MD; Leda Mannent, MD

Supporting information online

Triological Society Paper
American Laryngological Association Paper
Triological Society Best Practice
American Broncho-Esophagological Association Paper

This journal is listed in Index Medicus/MEDLINE, Current Contents/Clinical Medicine, Biological Abstracts, Chemical Abstracts, Excerpta Medica, and Science Citation Index.
BRONCHOESOPHAGOLOGY

1217 The Role of Vocal Fold Bowing on Cough and Swallowing Dysfunction in Progressive Supranuclear Palsy
Necati Enver, MD; James C. Borders, MS, CCC–SLP; James A. Curtis, MS, CCC–SLP; Jordan S. Sevitz, MS, CCC–SLP; Nora Vanegas-Arroyave, MD; Michelle S. Troche, PhD, CCC–SLP

1223 Inflammatory Effects of Thickened Water on the Lungs in a Murine Model of Recurrent Aspiration
Nogah Nativ-Zeltzer, PhD; Rumi Ueha, MD, PhD; Yuval Nachalon, MD; Betty Ma, DVM; Gabrielle Pastenkis, PhD; Clay Swackhamer; Gail M. Bornhorst, PhD; Maureen A. Lefton-Greif, PhD; Johnathon D. Anderson, PhD; Peter C. Belafsky, MD, PhD

1229 Predictors of Stricture and Swallowing Function Following Salvage Laryngectomy
Ari D. Schuman, MD, MS; Andrew C. Birkeland, MD; Janice L. Farlow, PhD; Teresa Lyden, MA, CCC–SLP; Anna Blakely, MA, CCC–SLP; Matthew E. Spector, MD; Andrew J. Rosko, MD

E-Only Article
E1778 Upper Esophageal Sphincter Response to Laryngeal Adductor Reflex Elicitation in Humans
Frederik J. Meisoll, DMD; Michael Jungheim, MD; Jacob F. Fast, MS; Simone Miller, PhD; Martin Prok, MD

COMPREHENSIVE OTOLARYNGOLOGY

1235 Neuromodulators for Atypical Facial Pain and Neuralgias: A Systematic Review and Meta-Analysis
Triet M. Do, MS; Graham D. Unis, MD, MS; Nrusheel Kattar, BA; Ashwin Ananth, MD, Edward D. McCoul, MD, MPH

1254 A Meta-Analysis of 67 Studies with Presenting Symptoms and Laboratory Tests of COVID-19 Patients
Manish Main, MB; Hitesh Singhavi, MDS; Ameeta Pai, MDS; Jinesh Singhavi, DNB; Prachi Gandhi, MD; Peter Conboy, FRCS; Andrew Baker, FRCS; Sudip Das, FRCS

1266 Adherence to Subspecialty Guidelines in the Emergency Department
Zahrah Taufique, MD, MBA; Micah Timen, MD, MSc, CPA; Jordan L. Swartz, MD, MA; David R. Friedmann, MD, MSc

E-Only Articles
E1785 Compensation Rates for Otolaryngologic Procedures Under the Medicare Physician Fee Schedule in 2018
Neil S. Kondamuri, BA; Ashley L. Miller, MD; Vinay K. Rathee, MD, MBA

E1792 Modernizing the Otolaryngology Referral Workflow: The Impact of Electronic Consultation
Elizer C. Kinberg, MD; Diana N. Kirke, MD; Samuel J. Trostan, MD

E1797 Tracheotomy Outcomes in 64 Ventilated COVID-19 Patients at a High-Volume Center in Bronx, NY
Yasmina Ahmed, MD; Angela Cao, MD; Arielle Thal, MD; Sharan Shah, MD; Corin Kinshabalwala, MD; David Liao, MD; Daniel Li, BS; Michael Parides, PhD; Vikas Mehta, MD, MPH; Thomas Ow, MD; Richard Smith, MD; Bradley A. Schiff, MD

E1805 Improving Mortality Attribution in Otolaryngology—Head and Neck Surgery
Michael H. Freeman, MD; Jennifer M. Slayton, RN, MSN; Marcella C. Woods, PhD; Barbara J. Martin, RN, MBA; Roland D. Eavey, MD, SM; Alexander J. Langerman, MD, SM; Marc L. Bennett, MD, MMHC

E1811 Resident Safety Huddles: Our Department’s Experience in Improving Safety Culture
Seerat K. Poonia, MD; Aman Prasad, BS; Kevin Chorath, MD; Steven B. Cannady, MD; James Kearney, MD; Michael Ruckenstein, MD; Karthik Rajasekaran, MD

E1816 Recommendations for the Rising Otolaryngology Residency Programs’ Social Media Presence
Ariel M. Azhdam, MS; Amir A. Hakimi, BS; Deborah X. Xie, MD; Matthew K. Lee, MD

E1817 In Response to Recommendations for the Rising Otolaryngology Residency Programs’ Social Media Presence
Khodayar Goshtasbi, MS; Kotaro Tsutsumi, BA; Michael H. Berger, MD; Edward C. Kuan, MD, MBA; Tyson Tjoa, MD; Yaarab M. Haidar, MD
CRANIAL BASE

1271 Calvarium Thinning in Patients with Spontaneous Cerebrospinal Fluid Leaks of the Anterior Skull Base
Dhruv Sharma, MD; Brady J. Tucker, BS; Daveid S. Millay, OD; Kolin E. Rubel, MD; Mohamad Salati, MD; Rick F. Nelson, MD; Elisa A. Illing, MD; Jonathan Y. Ting, MD, MS, MBA

FACIAL PLASTICS-RECONSTRUCTIVE SURGERY

1277 Septal Perforation Repair Using Bilateral Mucosal Flaps With a Temporalis Fascia Interposition Graft
Amar Miglani, MD; Cullen Taylor, MD; Stephen F. Bansberg, MD

1281 Cleft Palate Repair by Otolaryngologist-Head and Neck Surgeons: Risk Factors for Postoperative Fistula
Grace R. Leu, Bridget E. Ebert; Brianne B. Roby, MD; Andrew R. Scott, MD

1286 Outcomes of Venous End-to-Side Microvascular Anastomoses of the Head and Neck
Matthew Stewart, BS; Perry Hammond, BA; Ishavi Khatiwala, BS; Brian Swenseng, MD; Farshid Taghizadeh, BS; Daniel Petrisor, DMD, MD; Tingting Zhan, PhD; Richard Goldman, MD; Adam Laginbcubhl, MD; Ryan Hoffelfinger, MD; Larissa Sweery, MD; Mark K. Wax, MD; Joseph M. Curry, MD

1291 Cancellous Tibial Bone Graft for Malunion after Mandibular Reconstruction in Head and Neck Cancer
Chelsea S. Hamill, MD; Christopher M. Maatouk, BA; Kate Clancy, MD; Chad A. Zender, MD, FACS; Rod P. Rezave, MD FACS

E-Only Articles

E1818 Immediate Postoperative Radiation Therapy after Free Tissue Transfer for Keloid Treatment
Jacqueline A. Wu, MD; Scott W. Finlay, MD; Minh-Tam Truong, MD; Walied H. Ezat, MD

E1821 Risk Factors for and Cost Implications of Free Flap Take-backs: A Single Institution Review
Mary Han, MD; Edgar Ochoa, BS; Bovey Zhu, MD; Andrea M. Park, MD; Chase M. Heaton, MD; Rahul Seth, MD; P. Daniel Knott, MD

E1830 Effect of Lateral Crural Procedures on Nasal Wall Stability and Tip Aesthetics in Rhinoplasty
Mohamed Abdelwahab, MD; Priyesh Patel, MD; Cherian K. Kandathil, MD; Hash Wadhwa, MD; Sam P. Most, MD

HEAD AND NECK

1297 Temporal Artery Posterior Auricular Skin Free Flap for Secondary Oral Cavity Reconstruction
Axel Sahovaler, MD; Ilyes Berania, MD; Marco Ferrari, MD; Hedeyh Ziai, MD; Ashok Jethwa, MD; David P. Goldstein, MD, MSc; John R. de Almeida, MD, MSc; Ralph Gilbert, MD

1301 Socioeconomic Status Drives Racial Disparities in HPV-negative Head and Neck Cancer Outcomes
Nicholas R. Lenze, MPH; Douglas Farquhar, MD, MPH; Siddharth Seth, DO, MPH; Jose P. Zevalltos, MD, MPH; Jeffery Blumberg, MD; Catherine Lumley, MD; Samip Patel, MD; Trevor Hackman, MD; Mark C. Weissler, MD; Wendell G. Yarbrough, MD, MMHC; Adam M. Zanation, MD; Andrew F. Olshan, PhD

1310 Survival of Young Versus Old Patients With Oral Cavity Squamous Cell Carcinoma: A Meta-Analysis
David S. Lee, MD; Ricardo J. Ramirez, MD, MSCI; Jake J. Lee, MD, MSCI; Carla V. Valenzuela, MD, MSCI; Jose P. Zevalltos, MD, MPH; Angela L. Mazul, PhD, MPH; Sidbarth V. Puram, MD, PhD; Michelle M. Doering, MLIS; Patrik Pipkorn, MD, MSCI; Ryan S. Jackson, MD

E-Only Articles

E1838 Prognostic Impact of Metastatic Site and Pattern in Patients with Metastatic Head and Neck Cancer
Craig A. Bollig, MD; Christopher I. Newberry, MD; Tabitha L. I. Galloway, MD; Robert P. Zitsch, MD; Elyse K. Hanly, MD, PhD; Vivian L. Zhu, MD; Nitin Pagadar, MD, MPH; Robit Nallani, MD; Andres M. Bar, MD; William C. Spanos, MD; Jeffrey B. Jorgensen, MD
Radiotherapy in Metastatic Oropharyngeal Cancer
Susanna Nguy, MD; Cheongun Oh, PhD; Jerome M. Karp, MD PhD; Shengyang Peter Wu, MD; Zujun Li, MD; Michael J. Persky, MD; Kenneth S. Hu, MD; Babak Givi, MD; Moses M. Tam, MD

Implantable Doppler Ultrasound Monitoring in Head and Neck Free Flaps: Balancing the Pros and Cons
Raymond Hayler, BMedSci; Tiu-Hui (Hubert) Lau, MBBS(Hons), FRACS; Kevin Fung, MD, FRCS(C); Anthony C. Nichols, MD, FRCS(C); S. Danielli MacNeil, MD, MSc, FRCS(C); John Yoo, MD, FRCS(C)

Promoting Tobacco Use Among Students: The U.S. Smokeless Tobacco Company College Marketing Program
Z. Jason Qian, MD; Matthew J. Hill, MS; Divya Ramamurthi, MA; Robert K. Jackler, MD

Clinical Swallowing Profile Change in HNC Patients Treated with C/RT
Ikjae Im, PhD; Giselle D. Carnaby, MPH, PhD; Noriaki Takahashi, DDS, PhD; Sarah Dungan, BA; Michael A. Crary, PhD

Prevalence of Multidrug-Resistant Organisms in Patients Undergoing Free Flap Reconstruction
Chelsea S. Hamill, MD; Vusala Snyder, MD; Kevin J. Sykes, PhD, MPH; Thomas O'Toole, MD

Opioid Usage and Prescribing Predictors Following Transoral Robotic Surgery for Oropharyngeal Cancer
Nicholas B. Abt, MD; Andrew J. Holcomb, MD; Allen L. Feng, MD; Krish Suresh, MD; Tara E. Mokhtari, MD; Christopher I. McHugh, MD, PhD; Anuraag S. Parikh, MD; Daniel G. Deschler, MD; Mark A. Varvares, MD; Derrick T. Lin, MD; Daniel G. Deschler, MD; Mark A. Varvares, MD

Transoral Robotic Retropharyngeal Lymph Node Dissection in Nasopharyngeal Carcinoma With Retropharyngeal Lymph Node Recurrence
Xi Ding, PhD; Qing-Guang Lin, MD; Xiong Zou, MD, PhD; You-Ping Liu, MD; Yi-Jun Hua, MD, PhD; Yu-Lang Xie, MD; Zhi-Qiang Wang, MD; Yi-Nuan Zhang, MD; Yang-Kai Gu; Rui You, MD, PhD; Qi Yang, MD, PhD; Meng-Xiu Zhang, MD; Si-Yuan Chen, PhD; Yan-Feng Qiuang, MD; Zi-Kun Yu, MD; Rui Sun, MD, PhD; Ming-Yuan Chen, MD, PhD

Botulinum Toxin Injection for Chronic Parotitis: A Multi-Center and Prospective Trial
Soon Young Kwon, MD, PhD; Kyung Ju Chun, MD; Hong Kwon Kil, MD; Kyoung Ho Oh, MD, PhD; Chulhan Kim, MD, PhD; Su Jin Jang, MD, PhD; Min-Su Kim, MD

In Reference to The Psychological Impact of Head and Neck Cancer in Pain Perception
Amir Reza Akbari; Daniel Joseph Warrington; Jake Higginbottom; Jake Hancock

In Reference to The Psychological Impact of Head and Neck Cancer in Pain Perception
Vinita Takiar, MD, PhD

How I Do It: A Novel Technique for Endoscopic Placement of Stent in Management of Anterior Glottic Webs
 Necati Enver, MD; Aparupa Ramaswamy, MD; Michael J Pitman, MD

Novel Adaptation of a Validated Tactile Aesthesiometer to Evaluate Laryngopharyngeal Sensation
Madeleine P. Strobl, MD; VyVy N. Young, MD; Christopher D. Dwyer, MD; Abbasbek Bhuadada, BA; Ethan Crawford; Jolie L. Chang, MD; Clark A. Rosen, MD; Steven W. Cheung, MD

Changes of Laryngeal and Extralaryngeal Symptoms and Findings in Laryngopharyngeal Reflux Patients
Jérôme R. Lechien, MD, PhD, MS; Francois Bobin, MD; Vinciane Muls, MD; Francois Mouawad, MD, PhD, MS; Giovanni Dapri, MD, PhD, FACS; Didier Deguillaume, MD, PhD; Mihaela Horoi, MD; Marie-Paule Thill, MD; Alexandra Rodriguez Ruiz, MD; Sven Sausze, MD, PhD

The Effects of Menopause on Neuromuscular Parameters of the Rat Vocal Folds
Charles Lenell, PhD; Aaron M. Johnson, MM, PhD

Speech Performance after Anterolateral Thigh Phonatory Tube Reconstruction for Total Laryngectomy
Yi-An Lu, MD; Yu-Cheng Pei, MD, PhD; Hsiu-Feng Chuang, MS; Li-Yun Lin, BS; Li-Jen Hsin, MD; Chung-Jan Kang, MD; Shiang-Fu Huang, MD, PhD; Hui-Chen Chuang, PhD; Chung-Kan Tsao, MD; Tuan-Jen Fang, MD
E-Only Articles

E1912  One Hundred Cases of Localized Laryngeal Amyloidosis - Evidence for Future Management
Georgina Harris, MBBS, Bsc, FRACS (ORL-HNS); Helen Lachmann, MA, MB, BCHir, MD, FRCP;
Philip Hawkins, PhD, MD, FRCP; Guri Sandhu, MBBS, MD, FRCS (ORL-HNS)

E1918  A Prospective Study of Voice, Swallow, and Airway Outcomes Following Tracheostomy for COVID-19
Maral J. Rouhani, MA, MRCS, DOHNS; Gemma Clunie, MSc; Gerard Thong, MCh, MRCS, DOHNS;
Lindsay Lovell, MA Cert., RCSLT; Justin Roe, PhD, FRCSLT; Margaret Ashcroft, DipHE, BSc, ANP;
Andrew Holroyd, DipHE, BSc, RGN; Guri Sandhu, MD, FRCS; Chadwan Al Yaghchi, PhD, FRCS

E1926  Long-Term Follow-Up on Systemic Bevacizumab Treatment in Recurrent Respiratory Papillomatosis
Georg Evers, MD; Christoph Schliemann, MD; Achim Beule, MD; Lars-Henning Schmidt, MD; Arik B. Schulze, MD;
Christina Kesler, MD; Thomas K. Hoffmann, MD; Rainer Wiebink, MD; André H. Groll, MD; Annalen Bleckmann, MD;
Claudia Rudack, MD; Wolfgang E. Berdel, MD; Michael Mohr, MD

E1934  Impact of Vertical Stiffness Gradient on the Maximum Divergence Angle
Charles Farbos de Luzan, PhD; Alexandra Maddox, BS; Liran Oren, PhD; Ephraim Gutmark, PhD; Rebecca J. Howell, MD;
Sid M. Khosa, MD

E1941  Systemic Bevacizumab for Treatment of Respiratory Papillomatosis: International Consensus Statement
Douglas R. Sidell, MD; Karthik Balakrishnan, MD, MPH; Simon R. Best, MD; Karen Zur, MD; Julia Buckingham, MS;
Alejandro De Alarcon, MD; Paul Henry; Jonathan M. Block, MD; Emily F. Bass, MD; Charles M. Bowes, MD;
Pablo Campisi, MD; Sharon F. Chen, MD; Jeffrey M. Clarke, MD; Kevin D. Clarke, MD; Alejandro Coccia, MD;
Robin T. Cotton, MD; Giselle Cuestas, MD; Kara L. Davis, MD; Victor H. DeFago, MD; Frederik G. Dijkers, MD;
Ines Dussans, MD; Walter Flores, MD; Elizabeth Fox, MD; Aaron D. Friedman, MD; Nazaanan Grant, MD;
Osama Hamdi, BS; Norman D. Hugikyan, MD; Kailan Johnson, MD; Liane B. Johnson, MD; Romaine F. Johnson, MD;
Peggy Kelly, MD; Adam M. Klein, MD; Claire M. Lawlor, MD; Nicolas Lemboulan, MD; Alejandro G. Levy, MD;
Derek Lam, MD; Greg R. Licameli, MD; Steve Long, MD; David G. Lott, MD; Dayne Manrique, MD;
James Scott McMurray, MD; Kara D. Meister, MD; Anna H. Messner, MD; Michael Mohr, MD; Pamela Madd, MD;
Anthony J. Mortelliti, MD; Daniel Novakovic, MD; Julian Onkgaswana, MD; Shazia Peer, MD; Krzysztof Piersiak, MD;
Jeremy D. Prager, MD; Seth M. Pransky, MD; Diego Preciado, MD; Tiffany Raynor, MD; Rico N. P. M. Rinkel, MD;
Hugo Rodriguez, MD; Verónica P. Rodríguez, MD; John Russell, MD; Maria Laura Scatolini, MD; Patrick Scheffler, MD;
David F. Smith, MD; Lee P. Smith, MD; Marshall E. Smith, MD; Richard J. H. Smith, MD; Abraham Sorom, MD;
Amalia Steinberg, MD; John A. Stith, MD; Dana Thompson, MD; Jerome W. Thompson, MD; Patricia Varela, MD;
David R. White, MD; André M. Wineland, MD; Christina J. Yang, MD; Carlton J. Zdanski, MD; Craig S. Derkay, MD

E1950  Effects of 445-nm Laser on Vessels of Chick Chorioallantoic Membrane with Implications to Microlaryngeal Laser Surgery
Duy Duong Nguyen, MD, PhD; Jing-Yin Pang, MBBS, MRCS, DOHNS, MMed; Catherine Madill, PhD, CPSP;
Daniel Novakovic, FRACS, MBBS, MPH

E1957  Characterization of Functional Dysphonia: Pre- and Post-Treatment Findings
William S. Tierney, MD, MS, MS; Roy Xiao, MD, MS; Claudio F. Milstein, PhD

E1965  Tracheoesophageal Diversion and Puncture for Preserving Phonation in Intractable Aspiration: A Case Series
Kazuo Adachi, MD; Toshihiro Umezaki, MD, PhD; Takashi Inoguchi, MD, PhD; Naoko Matsubara, MD, PhD;
Norimoto Kise, MD; Yogaku Lee, MD

E1971  Quantitative Evaluation of Subglottic Stenosis Using Ultrashort Echo Time MRI in a Rabbit Model
Deep B. Gandhi, MS; Andrew Rico, BS; Chaimindu C. Gunatilaka, BS; Nara S. Higano, PhD; Robert J. Fleck, MD;
Alejandro De Alarcon, MD; Catherine K. Hart, MD; I-Chun Kuo, MD; Raouf S. Amin, MD; Jason C. Woods, PhD;
Erik B. Hysinger, MD; Alister J. Bates, PhD

E1980  Prognostic Features in Intermediate-Size Supraglottic Tumors Treated With Open Supraglottic Laryngectomy
Marialvessa Damiani, MD; Giuseppe Mercante, MD; Mohammed Abdellaoui, MD; Joanne Guerlain, MD;
Antoine Moya-Plana, MD, PhD; Odile Casiago, MD; Stéphane Temam, MD, PhD; Yungau Tso, MD, PhD;
Philippe Gorphe, MD, MSc

E1987 Disparities in Laryngeal Cancer Treatment and Outcomes: An Analysis by Hospital Safety-Net Burden
Muhammad M. Qureshi, MBBS; Oluwadamilola T. Oladera, MD; Christa M. Lam, MS; Michael A. Dyer, MD; Kimberly M. Mak, MD; Ariel E. Hirsch, MD; Minh Tuan Truong, MD

E1998 Regarding Cricopharyngeal Myotomy in Inclusion Body Myositis: Comparison of Endoscopic and Transcervical Approaches
Kenichiro Taira, MD, PhD; Madoka Mori-Yoshimura, MD, PhD

E1999 In Response to Regarding Cricopharyngeal Myotomy in IBM: Comparison of Endoscopic and Transcervical Approaches
Ryan A. McMillan, MD; Andrew J. Bowen, MD; Brian A. Crum, MD; Semirra L. Bayan, MD; Jan L. Kasperbauer, MD; Dale C. Ekbom, MD

OTOLOGY-NEUROTOLOGY

1358 Scalar Translocation Comparison Between Lateral Wall and Perimodiolar Cochlear Implant Arrays - A Meta-Analysis
Saad Juwair, MD; Adrianus Prins, BSc; Inge Wegner, MD, PhD; Robert J. Stokroos, MD, PhD; Huib Versnel, PhD; Hans G. X. M. Thomeer, MD, PhD

1369 Risk of Stroke and Myocardial Infarction After Sudden Sensorineural Hearing Loss: A Meta-Analysis
Marc J. W. Lammers, MD, PhD; Emily Young, MBChB, MPH, FRCS; Brian D. Westerberg, MD, FRCSC, MHSc; jane Lea, MD, FRCS

1378 Hearing Status and Aural Rehabilitative Profile of 878 Patients With Sporadic Vestibular Schwannoma
Robert J. Macielak, MD; John P. Marinelli, MD; Samuel A. Spear, MD; Debbie L. Habs-Vaughn, PhD; Michael J. Link, MD; Chad Nye, PhD; Matthew L. Carlson, MD

1382 Usefulness of Exam Questions and Vital Signs for Predicting the Outcome of Objective Vestibular Tests
Helen S. Cohen, EdD, OTR; Haleh Sangi-Haghpeykar, PhD; Megan Watts, MSN, RN; Alex D. Sweeney, MD; Angela S. Peng, MD

E-Only Articles

E2000 MRI Texture Features are Associated with Vestibular Schwannoma Histology
Nicholas A. George-Jones, BS; Rati Chkheidze, MD; Samantha Moore, MD, PhD; Jing Wang, PhD; Jacob B. Hunter, MD

E2007 Audiometric Profile of Cochlear Implant Recipients Demonstrates Need for Revising Insurance Coverage
Jason H. Barnes, MD; Linda X. Yin, MD; John P. Marinelli, MD; Matthew L. Carlson, MD

E2013 Expression of ACE2, TMPRSS2, and Furin in Mouse Ear Tissue, and the Implications for SARS-CoV-2 Infection
Tsukasa Urunaka, MD; Akinori Kashio, MD, PhD; Rumi Ueha, MD, PhD; Taku Sato, MD; Han Bing, MD; Gao Ying, MD; Makoto Kinoshita, MD, PhD; Kenji Kondo, MD, PhD; Tatsuya Yamasoba, MD, PhD

E2018 Neurprotectin D1 Attenuates Blast Overpressure Induced Reactive Microglial Cells in the Cochlea
Jose David Rios, PhD; Charlotte K. Hughes, MD; John Lally, MD; Nathan Wienandt, DVM, DACVP; Carlos Esquivel, MD; Charles N. Serhan, PhD, DSc; Erik K. Weitzel, MD

E2026 Outcomes After Tympanic Membrane Perforation During Primary Stapes Surgery for Otosclerosis
Alexander L. Luryi, MD; Amy Schettino, MD; Elias M. Michaelides, MD; Seilesh Babu, MD; Dennis I. Bojrab, MD; Christopher A. Schutt, MD

E2031 Long-Term Survival in 1,931 Patients With Dizziness: Disease- and Symptom-Specific Mortality
Jan Erik Berge, MD; Stein Helge Glad Nordahl, MD, PhD; Hans Jørgen Aarstad, MD, PhD; Frederik Kragerud Goplen, MD, PhD

E2038 Influence of Protective Face Coverings on the Speech Recognition of Cochlear Implant Patients
Teresa G. Vo, MD; Margaret T. Dillon, AuD; Emily Buss, PhD; Meredith A. Rooth, AuD; Andrea L. Buckner, AuD; Sarah Dillon, AuD; Adrienne Pearson, AuD; Kristen Quinones, AuD; Margaret E. Richter, BA; Noelle Roth, AuD;
In Reference to A Modern Case Sheds Light on a Classical Enigma: Beethoven’s Deafness
Kotaro Tsutsumi, BA; Mehdad Ahourzari, MD, PhD; Hamid R. Djafarian, MD

In Response to In Reference to A modern Case Sheds Light on a Classical Enigma: Beethoven’s Deafness
Davide Broatto, MD; Renato Fellin, Prof; Flavia Sorrentino, MD; Flavia Gheller, Dr; Patrizia Trevisi, Prof; Roberto Bovo, Prof

PEDIATRICS

1386 Pediatric Post-Tonsillectomy Opioid Prescribing Practices
Yusuf M. Agamawi, MD; Lauren M. Cass, MD, MPH; Maggie Mouzourakis, BS; Jaihir S. Pannu, BS; Jennifer V. Brinkmeier, MD

1392 Active Observation as an Alternative to Invasive Treatments for Pediatric Head and Neck Lymphatic Malformations
Juliana Bonilla-Velez, MD; Kathryn B. Whitlock, MS; Sheila Ganti, PhD; Hailey A. Theuwen, BS; Scott C. Manning, MD; Randall A. Bly, MD; John P. Dahl, MD, MBA, PhD; Jonathan A. Perkins, DO

1398 Ability of Bedside Ultrasonography to Detect Pediatric Nasal Bone Fractures
Emre Gökçen, MD; Arakan Savrun, MD; Mikail Kuydogan, MD; Ibrahim Caltekin, MD; Levent Albayrak, MD; Dilek Atik, MD; Sevilay Vural, MD; Seyda T. Savrun, MD; Gökbah Yıldırım, MD

1404 Unilateral Sialendoscopy for Juvenile Recurrent Parotitis: What Happens to the Other Side?
Konstantinidis Iordanis, MD, PhD; Dogantzis Panagiotis, MD; Chatziavramidis Angelos, MD; Metzikofis Antonios, MD; Delides Alexander, MD, PhD; Alataki Sofia, MD; Papadopoulou-Alataki Efimia, MD, PhD

1410 Transcutaneous CO2 Monitoring in Children Undergoing Tonsillectomy for Sleep Disordered Breathing
Debra Don, MD; Beth Osterbauer, MPH; Sameh Nour, MD; Marla Matar, MD, FAAP; Rebecca Margolis, DO; Gerald Bushman, MD

1416 Obesity as a Possible Risk Factor for Pediatric Sensorineural Hearing Loss
Andrew Bluher, MD; Kosuke Kawai, ScD; Alicia Wang, BSE; Derek Stiles, PhD, CCC-A, CH-AP; Greg Licameli, MD

E-Only Articles

E2046 Speech Outcomes After Sphincter Pharyngoplasty for Velopharyngeal Insufficiency
Austin S. Lam, MD; Erin M. Kirchham, MD, MPH; John P. Dabl, MD, PhD, MBA; Sara L. Kinter, MA, CCC-SLP; Jonathan A. Perkins, DO; Kathleen C.Y. Sie, MD

E2053 Genetic Testing Leading to Early Identification of Childhood Ocular Manifestations of Usher Syndrome
Kara D. Brodie, MD, MPhil; Anthony T. Moore, BM, BCh, FMedSci; Anne M. Slavotinek, MBBS, PhD; Anna K. Meyer, MD; Garani S. Nadaraja, MD; David E. Conrad, MD; Jacqueline E. Weinstein, MD; Dylan K. Chan, MD, PhD

E2060 Malnutrition as a Risk Factor in Cleft Lip and Palate Surgery
Paul J. Escher, BA; Hanan Zavala, PhD; Daniel Lee, PhD; Brianne Barnett Rohy, MD; Sivakumar Chinnadurai, MD, MPH

E2066 Suspension Microsophagopy for Foreign Body Removal in Children
Evan J. Propst, MD, MSc, FRCS; Blake C. Papiin, MD; Nikolaus E. Wolter, MD

E2069 Post-Tonsillectomy Hemorrhage and the Diagnosis of Occult Pediatric Coagulopathies
Stephen R. Chorney, MD, MPH; Rena Weinberger; Ari Y. Weintraub, MD; Adva Buzi, MD

E2074 Detection of Respiratory Pathogens Does Not Predict Risks After Outpatient Adenotonsillectomy
Donald M. Vickers, MD; Arundathi Reddy, MD, MBA; Chary Akmyradav, PhD; Kesley M. Brown, BS; Bobby L. Boyanton Jr., MD; Heather D. Wright, MS; Jay A. Taylor, MT(ASCP); Sherry H. Childress, MT(ASCP); Larry D. Hartzell, MD;
Adam B. Johnson, MD, PhD; James M. Key, MD; Abby R. Nolder, MD; Gresham T. Richter, MD; Andre M. Wineland, MD; Graham M. Strub, MD, PhD

E2080 Lingual Hamartomas: Clinical Characteristics, Diagnostic Evaluation, Treatment, and Outcomes
Yi-Chun Carol Liu, MD; Michael Shih; M. John Hicks, MD, DDS, PhD; Matthew S. Sitton, MD

SLEEP MEDICINE

1420 Barbed Reposition Pharyngoplasty versus Expansion Sphincter Pharyngoplasty: A Meta-Analysis
Chairat Neruntarat, MD; Kitsarawut Khuancharee, PhD; Petcharat Saengthong, MD

E-Only Article
E2089 Predictive Factors for Efficacious Oral Appliance Therapy in Moderate to Severe Obstructive Sleep Apnea Patients
Guillaume Buiret, MD; Maroun Bechara, MD; Isabelle Plouin-Gaudon, MD; Frederique Bavozet, MD; Olivia Dancea, MD; Kevin Fuji, MD; Frederic Chidias, MD

THYROID, PARATHYROID, AND ENDOCRINE

1429 Immediate Intraoperative Repair of the Recurrent Laryngeal Nerve in Thyroid Surgery
Ricard Simó, FRCS (ORL-HNS) FEBORL-HNS (Hon) PhD; Iain J. Nixon, FRCS (ORL-HNS) PhD; Aleix Rovira, MD, FEBORL-HNS; Vincent Vander Poorten, MD PhD MS; Alvaro Sanabria, MD MC PhD FACS; Mark Zaferos, MD PhD; Dana M. Hartl, MD PhD; Luiz P. Kowalski, MD PhD; Gregory W. Randolph, MD; Dipti Kamani, MD; Ashok R. Shaha, MD FRCS; Jatin Shah, MD, PhD (Hon); Jean-Paul Marie, MD; Alessandra Rinaldo, MD FRCS ad honorem FRCSEd FACS FRCSGlasg; Alvaro Sanabria, MD; Dipti Kamani, MD; Amr H. Ahmed, MBBCH, MMSc; Okewun I. Oke, MD; Bo Wang, MD; Gregory W. Randolph, MD

E-Only Article
E2097 Comparison of Autofluorescence With Near-Infrared Fluorescence Imaging Between Primary and Secondary Hyperparathyroidism
Mika Takeuchi, MD; Takeshi Takahashi, MD; Ryusuke Shodo, MD; Hisayuki Ota, MD; Yushi Ueki, MD; Keisuke Yamazaki, MD; Arata Hori, MD

On the Cover
Nasal septal perforation. (A) Incisions used to develop superior and inferior flaps. (B) Superior and inferior bipedicle flaps advanced and sutured.