Read all three of our prestigious publications, each offering high-quality content to keep you informed with the latest developments in the field.

**Laryngoscope**

Editor-in-Chief: Michael G. Stewart, MD, MPH

The leading source for information in head and neck disorders.

[Laryngoscope.com](http://Laryngoscope.com)

**Investigative Otolaryngology**

Editor-in-Chief: D. Bradley Welling, MD, PhD, FACS

Rapid dissemination of the science and practice of otolaryngology-head and neck surgery.

[InvestigativeOto.com](http://InvestigativeOto.com)

**ENTtoday**

Editor-in-Chief: Alexander Chiu, MD

Must-have timely information that Otolaryngologist-head and neck surgeons can use in daily practice.

[Enttoday.org](http://Enttoday.org)
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1727</td>
<td>Is Acupuncture Effective in Reducing Overall Symptomatology in Chronic Rhinosinusitis?</td>
<td>Andy J. Jin, MSc; Christopher J. Chin, MD, FRCS</td>
</tr>
<tr>
<td>1729</td>
<td>Should Patients With Obstructive Sleep Apnea Be Screened for Depression?</td>
<td>Josie Xu, MD; Kenny P. Pang, FRCS; Brian Rotenberg, MD, MPH</td>
</tr>
<tr>
<td>1731</td>
<td>Sphenopalatine Artery Surgery for Refractory Idiopathic Epistaxis: Systematic Review and Meta-Analysis</td>
<td>Takahiro Kitamura, MD; Yukinori Takenaka, MD, PhD; Kazuza Takeda, MD; Kyohei Oya, MD; Naoki Ashida, MD; Kotaro Shimizu, MD; Kazuya Takeda, MD; Yoshifumi Yamamoto, MD; Atsuhiko Uno, MD, PhD</td>
</tr>
<tr>
<td>1737</td>
<td>Effectiveness of Olfactory Training on Different Severities of Posttraumatic Loss of Smell</td>
<td>Robert Pellegrino, MS; Pengfei Han, PhD; Nicole Reither, MD; Thomas Hummel, MD</td>
</tr>
<tr>
<td>1744</td>
<td>Add-on Probiotics in Patients With Persistent Allergic Rhinitis: A Randomized Crossover Clinical Trial</td>
<td>Mir Mohammad Jalali, MD; Robabeh Soleimani, MD; Ali Alavi Fowami, MD; Hoosan Ganjah Khoravi, MD</td>
</tr>
<tr>
<td>1751</td>
<td>Factors Associated With Opioid Use After Endoscopic Sinus Surgery</td>
<td>Milap D. Raikundalia, MD; Tracy Z. Cheng, BS; Tracy Truong, MB; Maragatha Kuchibhatla, PhD; Jiyoung Ryu, MD; Ralph Abi Hachem, MD; David W. Jiang, MD</td>
</tr>
<tr>
<td>1756</td>
<td>Pediatricians' Proficiency in the Care of the Dysphonic Child</td>
<td>Carly S. Schiff, MS, CCC-SLP; Karen B. Zur, MD; Lisa M. Biggs, MD; Jia Guo, MS; Michael J. Pitman, MD</td>
</tr>
<tr>
<td>1763</td>
<td>3D-Printed, Externally-Implanted, Bioresorbable Airway Splints for Severe Tracheobronchomalacia</td>
<td>Andrea S. Loi, PhD; Richard G. Obye, MD; Amy G. Filbrun, MD; Maryam Ghadimi Mahani, MD; Colleen L. Flanagan, MS; Rodney C. Daniels, MD; Kelley M. Kidswell, PhD; David A. Zopf, MD, MS; Scott J. Hollister, PhD; Glenn E. Green, MD</td>
</tr>
<tr>
<td>1772</td>
<td>Initial Clinical Application of Tissue pH Neutralization After Esophageal Button Battery Removal in Children</td>
<td>Kris R. Jatana, MD; Christine L. Barron, BA; Ian N. Jacobs, MD</td>
</tr>
<tr>
<td>1777</td>
<td>Juvenile Nasopharyngeal Angiofibroma in Prepubertal Males: A Diagnostic Dilemma</td>
<td>P. Ryan Camilon, MD; Reza Rabbar, DMD, MD; Michael J. Cunningham, MD; Eclam A. Adil, MD, MBA</td>
</tr>
</tbody>
</table>

This journal is listed in Index Medicus/MEDLINE, Current Contents/Clinical Medicine, Biological Abstracts, Chemical Abstracts, Excerpta Medica, and Science Citation Index.
### FACIAL PLASTICS/RECONSTRUCTIVE SURGERY

1784  
**Septal Fractures Predict Poor Outcomes After Closed Nasal Reduction: Retrospective Review and Survey**  
*Mark A. Arnold, MD; Susan C. Yanik, MD; Amar C. Suryadevara, MD*

### GENERAL OTOLARYNGOLOGY

1791  
**How Design Characteristics of Tracheostomy Tubes Affect the Cannula and Tracheal Flows**  
*Dhananjay Radhakrishnan Subramaniam, PhD; J. Paul Willging, MD; Ephraim J. Gutmark, PhD, DSc; Liran Oren, PhD*

1800  
**Reaching Across the Aisle: Cross-Disciplinary Collaboration in Otolaryngology Research**  
*Son Joe Kim, BS; Won Kyu Choi, BS; Andrew H. Lee, MD; Paul H. Yi, MD; Emily Bass, MD, MPH*

1806  
**How Much Blood Could a JP Suck If a JP Could Suck Blood?**  
*Erin M. Mamuyac, MD; Andrew K. Pappa, MD; Brian D. Thorp, MD; Charles S. Ebert Jr., MD, MPH; Brent A. Senior, MD; Adam M. Zanation, MD; Feng-Chang Lin, PhD; Adam J. Kimple, MD, PhD*

### HEAD AND NECK

1810  
**Intraoperative Margin Control in Transoral Approach for Oral and Oropharyngeal Cancer**  
*Giancarlo Tirelli, MD; Francesca Boscolo Nata, MD; Annalisa Gatto, MD; Rossana Bassani, MD; Giacomo Spinato, MD; Serena Zacchigna, MD; Marco Piovesana, MD*

1816  
**Evaluation of Early Oral Cavity Cancer Treatment Quality at a Single Institution**  
*Steven Chang, MD; Ryan Sanii, MPH; Hamad Chaudhary, MD; Carol Lewis, MD; Michael Seidman, MD; Kathleen Yaremchuk, MD*

1822  
**Supraglottic Squamous Cell Carcinoma: A Population-Based Study of 22,675 Cases**  
*Tapan D. Patel, MD; Kristen A. Echanique, MD; Candice Yip, MD; Wayne D. Hsueh, MD; Soly Baredes, MD; Richard Chan Woo Park, MD; Jean Anderson Eloy, MD*

1828  
**Risk and Outcomes for Second Primary Human Papillomavirus–Related and –Unrelated Head and Neck Malignancy**  
*Eric Adjei Boakye, PhD, MA; Paula Buchanan, PhD, MPH; Leslie Hinyard, PhD, MSW; Katie Stamatakis, PhD, MPH; Nosayaba Osazuwa-Peters, BDS, PhD, MPH, CHES; Matthew C. Simpson, MPH; Mario Schootman, PhD; Jay F. Piccirillo, MD, FACS*

1836  
**Supraglottic Squamous Cell Carcinoma Detection and Surveillance: Advances of Liquid Biomarkers**  
*Paul L. Swiecicki, MD; Julia R. Brennan, BSE; Michelle Mierzwa, MD; Matthew E. Spector, MD; J. Chad Brenner, PhD*

1844  
**Clinical Value of Transoral Robotic Surgery: Nationwide Results From the First 5 Years of Adoption**  
*Hong Li, BCh; Sina J. Torabi, BCh; Henry S. Park, MD, MPH; Wendell G. Yarbrough, MD, MMHC; Saral Mehra, MD, MBA; Rachel Choi, BCh; Benjamin L. Judson, MD*

### LARYNGOLOGY

1856  
**A Novel Silk-Based Vocal Fold Augmentation Material: 6-Month Evaluation in a Canine Model**  
*Christopher P. Gulka, PhD; Joseph E. Brown, PhD; Jodie E.M. Giordano, PhD; Jennifer E. Hickey, BCh; Maria P. Montero, BS; Anh Hoang, PhD; Thomas L. Carroll, MD*

1863  
**Continuous Laryngoscopy During Provocation in The Assessment of Inducible Laryngeal Obstruction**  
*James Harry Hull, PhD; Emil Schwaar Walsted, MD, PhD; Johanna Foiry, PhD; Paul Cullinan, MD; Gay Scadding, PhD; Emma Bailey, PGDip; Julia Selby, PhD*

1867  
**The Ability of Conditioned Media From Stem Cells to Repair Vocal Fold Injuries**  
*Choung-Soo Kim, MD; Hyunsu Choi, SD; Sung Won Kim, MD, PhD; Dong-Il Sun, MD, PhD*

1876  
**Voice Outcomes Following Medialization Laryngoplasty With and Without Arytenoid Adduction**  
*Terence M. Zimmermann, MD; Diana M. Orbelo, PhD; Rebecca L. Pittelko; Stephanie J. Youssef; Christine M. Labbe; Dale C. Ekbom, MD*
1882 The Effect of Octanoic Acid on Essential Voice Tremor: A Double-Blind, Placebo-Controlled Study
Soren Y. Lowell, PhD, CCC-SLP; Richard T. Kelley, MD; Marika Monahan, MS, CCC-SLP;
Carly Jo Hoshbach-Cannon, PhD, CCC-SLP; Raymond H. Colton, PhD; Dragos Mihaila, MD

OTOLOGY/NEUROTOLOGY
1891 Diagnostic Accuracy and Confidence for Otoscopy: Are Medical Students Receiving Sufficient Training?
Weston L. Niermeyer, BS; Ramez H. W. Philips, MD; Garth F. Essig Jr., MD; Aaron C. Moherly, MD
1898 Over-the-Counter Tinnitus “Cures”: Marketers’ Promises Do Not Ring True
Varun Vendra, MD; Yona Vaisbuch, MD; Albert C. Mudry, MD, PhD; Robert K. Jackler, MD
1907 Middle-Ear Dexamethasone Delivery via Ultrasound Microbubbles Attenuates Noise-Induced Hearing Loss
Cheng-Ping Shih, MD, PhD; Hiin-Chien Chen, MD, PhD; Yi-Chun Lin, MS; Hang-Kang Chen, MS; Hao Wang, MS;
Chao-Yin Kuo, MD; Yuan-Yang Lin, MD; Chih-Hung Wang, MD, PhD

PEDIATRICS
1915 Free Flap Transfer for Pediatric Head and Neck Reconstruction: What Factors Influence Flap Survival?
Shuo Liu, MM; Wen-bo Zhang, MD; Yao Yu, MD; Yang Wang, MD, DDS; Chi Mao, MD; Chuan-bin Guo, MD, PhD;
Guang-yan Yu, MD, DDS; Xin Peng, MD, DDS
Howard J. Hoffman, MA; Robert A. Dobie, MD; Katalin G. Losonczy, MA; Christa L. Themann, MA, CCC-A;
Gregory A. Flamme, PhD

SLEEP MEDICINE
1940 Clinical Trials in Obstructive Sleep Apnea: Recognizing Trends and Future Opportunities
Sameer K. Singh, BA; David Gu, BA; Robson Capasso, MD; Stanley Liu, MD; Christopher J. Gouveia, MD
1945 First Successful Mechanical Splint for Obstructive Sleep Apnea With an Orally Administrable Pharyngeal Stenting Device
Daniel Neu, MD, PhD; Grégory Nawara, MD; Johan Newell, MD; David Bouchez, MEng; Olivier Mairesse, PhD
1949 Dysfunctional Hypoglossal Nerve Stimulator After Electrical Cardioversion: A Case Series
Adam P. Vasconcellos, MD; Colin T. Huntley, MD; Amy E. Schell, MD; Ryan J. Soose, MD; Maurit S. Boon, MD

THYROID/PARATHYROID
1954 Recurrent Laryngeal Nerve Paralysis After Thyroid Cancer Surgery and Intraoperative Nerve Monitoring
Kayoko Mizuno, MD; Masato Tukuchi, MD; Yoji Kanazawa, MD; Morinasa Kitamura, MD; Kazuki Ide, PhD;
Koichi Omori, MD; Koji Kawakami, MD

E-ONLY ARTICLES
THYROID, PARATHYROID, AND ENDOCRINE
E263 Regarding: Cricothyroid Muscle Twitch Could Be a Preventive Tool for EBSLN Injury in Thyroid Surgery
Tzu-Yen Huang, MD; Wing-Hei Viola Yu, MA; Feng-Yu Chiang, MD; Che-Wei Wu, MD, PhD

THYROID/PARATHYROID
E264 In Response to Letter to the Editor Regarding: Is Cricothyroid Muscle Twitch Predictive of the Integrity of the EBSLN in
Thyroid Surgery?
Eui-Suk Sung, MD, PhD; Jae Hyook Chang, MD, PhD; Jia Kim, MD; Wonjae Cha, MD, PhD
HEAD AND NECK
E265 Regarding the Lack of Evidence for a Microbial Etiology of Sialolithiasis
John D. Harrison, PhD, FDSRCSEng, FRCPath

ALLERGY, RHINOLOGY, AND IMMUNOLOGY
E266 Establishment and Verification of a Mouse Model of Nasal Wound Healing
Yeon-Hee Joo, MD; Seo-Yuong Jeon, MD, PhD; Hyo Jung An, MD; Hyun-Jin Cho, MD; Jin Hyun Kim, PhD;
Myeong Hee Jung, MS; Rock Bum Kim, MD, PhD; Jung Je Park, MD, PhD; Sang-Wook Kim, MD, PhD

FACIAL PLASTICS/RECONSTRUCTIVE SURGERY
E272 Engineering of Scaffold-Free Tri-layered Auricular Tissues for External Ear Reconstruction
Lorraine L. Y. Chiu, PhD; Joanna F. Weber, PhD; Stephen D. Waldman, PhD, PEng

HEAD AND NECK
E284 Management of N0 Neck in Early Oral Squamous Cell Carcinoma: A Systematic Review and Meta-analysis
Conner Massey, MD; Anbuselvan Dharmarajan, MBBS; Raveendhara R. Bannuru, MD, PhD; Elie Rebeiz, MD

LARYNGOLOGY
E299 The Impact of Nasalance on Cepstral Peak Prominence and Harmonics-to-Noise Ratio
Catherine Madill, PhD, CPSP; Duong Duy Nguyen, MD, PhD; Kristie Yick-Ning Cham, BAppSc(SpPath) Hons, CPSP;
Daniel Novakovic, FRACS, MBBS, MPH, BSc; Patricia McCabe, PhD, CPSP

On the Cover
Endoscopic esophageal images: A, prior to button battery removal; B, immediately after button battery removal; C and D, immediately after 150 ml of sterile 0.25% acetic acid irrigation.