



## Karthik Balakrishnan, MD, MPH, FAAP, FACS

Professor of Otolaryngology - Head & Neck Surgery (OHNS) and, by courtesy, of Pediatrics

Otolaryngology (Head and Neck Surgery)

 Curriculum Vitae available Online

### CLINICAL OFFICE (PRIMARY)

- **Respiratory Specialties and ENT**

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### Bio

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#### BIO

Dr. Balakrishnan is a pediatric otolaryngologist specializing in the care of children with complex disorders of breathing, voice, and swallowing. He is an expert in complex surgical reconstruction of the larynx (voice box) and trachea (windpipe); innovative approaches to pediatric airway reconstruction; and in vascular anomalies of the head and neck. He has interests in improving the quality, safety, and value of pediatric surgical care, reducing costs of care, and optimizing the patient, family, and caregiver healthcare experience. He also has expertise in how cognitive and implicit bias may affect medical decision-making and in healthcare disparities and injustice. Dr. Balakrishnan is also a committed educator. He has twice been selected as otolaryngology faculty Teacher of the Year at Stanford and has worked with residents to develop an innovative quality improvement education program for surgical trainees. He has mentored multiple fellows, residents, medical students, and undergraduates, several of whom have pursued careers in otolaryngology. He frequently works with international colleagues to provide otolaryngology education in multiple resource-limited settings as well. Dr. Balakrishnan serves as medical director for surgical performance improvement at Stanford Lucile Packard Children's Hospital. He also serves in several other leadership roles in Stanford Medicine, including co-chair of the Teamwork Advisory Council, co-lead for the Otolaryngology department's diversity/equity/inclusion program, and NSQIP-Pediatric Surgeon Champion. In 2022, he was appointed the Susan B. Ford Surgeon-in-Chief of Stanford Medicine Children's Health and Lucile Packard Children's Hospital.

Dr. Balakrishnan has nationally and internationally recognized expertise in these areas, with many national and international invited presentations. He has published over 90 peer-reviewed papers, multiple textbook chapters, and a textbook (Evidence-Based Management of Head and Neck Vascular Anomalies, 2019). He has also served as Associate Editor for the journal Otolaryngology – Head and Neck Surgery and the Journal of Vascular Anomalies. He serves on multiple national and institutional quality committees and is founding co-chair of the national multicenter Aerodigestive Research Collaborative. His commitment to quality care in pediatric surgery has been recognized with fellowships in the American College of Surgeons and American Academy of Pediatrics.

Dr. Balakrishnan was born and raised in Baltimore, Maryland and attended college at Harvard University. After taking a year to work as a high school teacher in Baltimore, he attended medical school at Johns Hopkins, with an additional year to complete a Howard Hughes Medical Institute research fellowship. He then completed residency in Otolaryngology – Head & Neck Surgery at the University of Washington. During residency, Dr. Balakrishnan completed a two-year NIH-funded research fellowship and a Master of Public Health degree with a focus on Health Services. He completed a two-year fellowship at Cincinnati Children's Hospital with a focus on complex reconstruction of the pediatric larynx and trachea and pediatric aerodigestive disorders.

In 2014, Dr. Balakrishnan joined the otolaryngology faculty at Mayo Clinic in Rochester, Minnesota, where he was a key contributor to the multidisciplinary aerodigestive, vascular anomalies, and velopharyngeal insufficiency programs. At the Mayo Clinic Children's Center, Dr. Balakrishnan also served as a surgical quality leader and championed the development of a comprehensive pediatric surgical quality program. Dr. Balakrishnan joined the Stanford Department of Otolaryngology – Head & Neck Surgery and Lucile Packard Children's Hospital faculty in early 2020.

### **CLINICAL FOCUS**

- Airway Reconstruction
- Airway Obstruction
- Laryngeal Stenosis
- Tracheal Stenosis
- Vocal Cord Paralysis
- Airway
- Airway Surgery
- Choanal Atresia
- Vascular Anomalies
- Tracheostomy
- Tracheostomy Dependence
- Swallowing Disorders
- Aspiration
- Pediatric Otolaryngology

### **ACADEMIC APPOINTMENTS**

- Professor - University Medical Line, Otolaryngology (Head and Neck Surgery)
- Professor - University Medical Line (By courtesy), Pediatrics
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)

### **ADMINISTRATIVE APPOINTMENTS**

- Susan B. Ford Surgeon-in-Chief, Lucile Packard Children's Hospital/Stanford Children's Health, (2022- present)
- Co-chair, Stanford Otolaryngology Diversity, Equity, and Inclusion (DEI) committee, (2021- present)
- Co-chair, Stanford Medicine Teamwork Advisory Council, Stanford Medicine Center for Improvement, (2021- present)
- Member, Stanford Medicine Healthy Equity Committee, Stanford Medicine Center for Improvement, (2021- present)
- Medical Director of Surgical Performance Improvement, Lucile Packard Children's Hospital, Stanford, (2020- present)

## HONORS AND AWARDS

- Fellow, Stanford Medicine Center for Improvement
- Fellow, American College of Surgeons
- Fellow, American Academy of Pediatrics

## PROFESSIONAL EDUCATION

- Board Certification: Complex Pediatric Otolaryngology, American Board of Otolaryngology (2021)
- Fellowship: Cincinnati Children's Medical Center Pediatric Otolaryngology (2014) OH
- MPH, University of Washington , Health Services (2008)
- Board Certification: Otolaryngology, American Board of Otolaryngology (2013)
- Residency: University of Washington Otolaryngology Residency (2012) WA
- Internship: University of Washington Dept of Surgery (2006) WA
- Medical Education: Johns Hopkins University School of Medicine (2005) MD

## LINKS

- Stanford Children's webpage: <https://www.stanfordchildrens.org/en/doctor/karthik-balakrishnan>
- Google Scholar: <https://scholar.google.com/citations?user=Cskwu1UAAAAJ>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Balakrishnan studies ways to improve outcomes of pediatric airway reconstruction for diseases such as laryngotracheal, subglottic and tracheal stenosis, congenital tracheal stenosis and complete tracheal rings, laryngeal clefts, and vocal fold immobility and paralysis. He also examines the same questions for vascular malformations such as lymphatic malformations, venous malformations and hemangiomas.

Dr. Balakrishnan's research focuses on ways to standardize treatments and measure outcomes in these complex diseases, as well as ways to reduce treatment costs and medical errors, particularly those related to cognitive bias. By improving outcomes and reducing costs, he aims to improve the value of care, while also optimizing patient and caregiver experience during the care process.

#### Focus areas

1. Standardizing outcomes and processes in pediatric airway reconstruction. Dr. Balakrishnan co-leads unique international and national multidisciplinary collaborative groups to develop standard processes and outcome measures for airway surgery and aerodigestive (breathing/voice/swallowing) care in children. His previous work has led to the development of similar standards for lymphatic malformations in the head and neck and for reconstructive surgery of the larynx (voice box) and trachea (windpipe) in children. He has internationally recognized expertise in developing consensus statements for these complex questions.
2. Costs of otolaryngology care. Dr. Balakrishnan has studied thousands of patients and otolaryngology operations to identify factors that may predict more costly medical care. This will lead to process improvements that will allow Stanford and other institutions to reduce the cost burden that patients and the U.S. health care system face while maintaining quality and access to care. Dr. Balakrishnan's current work connects these costs to the outcomes and value of care provided.
3. Cognitive bias and implicit bias and medical error. Dr. Balakrishnan is working to improve otolaryngology resident and provider education related to the effects of cognitive and implicit bias on medical decision-making, and ways to reduce medical errors related to those biases.

4. Evidence-based care of vascular anomalies. Dr. Balakrishnan leads a task force of colleagues around the country to develop better scientific evidence to guide the care of challenging vascular anomalies such as lymphatic malformations.

5. Innovative approaches to pediatric airway reconstruction. Dr. Balakrishnan has studied several minimally invasive endoscopic approaches to airway surgery and is currently developing new robotic techniques to reconstruct the airway.

#### Significance to patient care

Complex and rare conditions such as airway stenosis and vascular malformations greatly impact children's survival and quality of life, but treatment pathways and standardization of care are still lacking. Dr. Balakrishnan hopes that increasing standardization of care and outcome reporting for these conditions will help doctors provide better care for these patients, with reduced costs and a better experience for children and their families and caregivers. Meanwhile, by developing and studying new and potentially better ways to do airway surgery, Dr. Balakrishnan hopes to provide families with innovative options that may better suit their children's needs.

## CLINICAL TRIALS

- FETO, Not Specified
- Stanford Program to Accelerate Robotic Children's Surgery, Not Specified

## Publications

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### PUBLICATIONS

- **Endobronchial Valves for Persistent Air Leak in Children: Two Case Reports and Review of the Literature.** *Pediatric pulmonology*  
Demir, Z., Schwab, M. E., Balakrishnan, K., Sidell, D., Shaller, B., Free, D., Bozkanat, K. M.  
2026; 61 (4): e71638
- **Standardizing Management of Pediatric Vocal Fold Immobility After Cardiothoracic Surgery.** *JAMA otolaryngology-- head & neck surgery*  
Nelson, L., Belsky, M. A., Meister, K. D., Balakrishnan, K., Freccero, A., Sidell, D.  
2026
- **Tracheal cartilaginous sleeve prevalence in syndromic craniosynostosis: A single institution study.** *International journal of pediatric otorhinolaryngology*  
Park, R. K., Hu, K., Fullerton, Z. H., Lee, M. C., Khosla, R. K., Balakrishnan, K.  
2026; 202: 112745
- **Barriers to airway procurement processes in sub-Saharan Africa: An exploratory qualitative study.** *Journal of the colleges of medicine of South Africa*  
Patel, N. R., Kabagenyi, F., Tshite, F., Barnor, I., Abdalla, T., Maina, R., Wiedermann, J., Jacobson, L., Okerosi, S., Balakrishnan, K., Patterson, R. H., Sidell, D., Xu, et al  
2026; 4: 257
- **Development, Validation, and Comparison of Machine Learning Models for Predicting Pediatric Surgical Site Infections Using the NSQIP-P Database.** *Journal of the American College of Surgeons*  
Chan, C. T., Pletcher, M. J., Balakrishnan, K., Hswen, Y., Scheffler, A.  
2025
- **Care of Infants and Children with Tracheostomies. An Official American Thoracic Society Clinical Practice Guideline.** *American journal of respiratory and critical care medicine*  
Amin, R., Agarwal, A., Chiang, J., Collaco, J. M., Cristea, A. I., Propst, E. L., Sobotka, S. A., Balakrishnan, K., Benscoter, D., Brenner, M. J., Castro-Codesal, M. L., Cuevas Guaman, M., Daines, et al  
2025
- **Comparison of Outcomes Between Primary Laryngotracheal Reconstruction and Partial Cricotracheal Resection in Moderate Grade Pediatric Subglottic Stenosis: A Systematic Review and Meta-Analysis.** *Laryngoscope investigative otolaryngology*  
Gyawali, B. R., Dutta, H., Devkota, A., Gyawali, N., Chhantyal, S., Mishra, A. K., Kharel, S., Balakrishnan, K., Sidell, D.  
2025; 10 (4): e70203

- **Zebra Tracheoplasty for Management of Tracheobronchomalacia in a Pediatric Patient.** *The Laryngoscope*  
Belsky, M. A., Din, T. F., Balakrishnan, K.  
2025
- **Fourth branchial cleft cyst presenting as a mediastinal mass in a neonate: a case report** *JOURNAL OF PEDIATRIC SURGERY CASE REPORTS*  
Schwab, M. E., Balakrishnan, K., Chao, S. D.  
2025; 117
- **Pediatric tracheal mucoepidermoid carcinoma treated with cricotracheal resection: A rare case and review of literature (vol 34, 100645, 2025)** *OTOLARYNGOLOGY CASE REPORTS*  
Kiessling, P., Kim, G., Meister, K., Balakrishnan, K., Din, T.  
2025; 35
- **Efficacy of microbial cell-free DNA testing for detecting pathogens in pediatric patients with head and neck infections-An initial study.** *Pediatric investigation*  
Xu, A., Miranda, A., Lin, H. F., Din, T., Balakrishnan, K., Truong, M. T., Ahmad, I., Meister, K.  
2025; 9 (2): 185-190
- **Prenatal Diagnosis of a Large Congenital Epulis.** *NeoReviews*  
Chitkara, R., Balakrishnan, K., Jayapal, P., Judy, A., Tan, S. Y., Hintz, S.  
2025; 26 (5): e357-e361
- **Analysis of Pediatric Acute Upper Airway Pathology During Local Wildfires and Increased PM 2.5 Burden.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Kiessling, P., Meister, K., Sidell, D., O'Bryan, M., Erickson-DiRenzo, E., Balakrishnan, K.  
2025
- **Composition and Priorities of Multidisciplinary Pediatric Thyroid Programs: A Consensus Statement.** *Thyroid : official journal of the American Thyroid Association*  
Kothari, R., Donner, J. R., Balakrishnan, K., Hartman, G., Alazraki, A., Antal, Z., Bauer, A., Chelius, D., Cherella, C., Dahl, J. P., Dimachkieh, A., Fox, L. A., Helmig, et al  
2025
- **Pediatric tracheal mucoepidermoid carcinoma treated with cricotracheal resection: A rare case and review of literature** *OTOLARYNGOLOGY CASE REPORTS*  
Kiessling, P., Kim, G., Meister, K., Balakrishnan, K., Din, T.  
2025; 34
- **Efficacy of microbial cell-free DNA testing for detecting pathogens in pediatric patients with head and neck infections-An initial study** *PEDIATRIC INVESTIGATION*  
Xu, A., Miranda, A., Lin, H., Din, T., Balakrishnan, K., Truong, M., Ahmad, I., Meister, K.  
2025
- **Impact of demographics and social vulnerability on outcomes in pediatric medullary thyroid cancer.** *International journal of pediatric otorhinolaryngology*  
Rahman, A., Low, C., Huang, A., Meister, K., Balakrishnan, K.  
2024; 187: 112166
- **Recurrent Respiratory Papillomatosis in the Post-Human Papillomavirus Vaccination Era.** *JAMA pediatrics*  
Qian, Z. J., Peñaranda, D., Valdez, T. A., Balakrishnan, K., Brigger, M. T.  
2024
- **Large Language Models in Otolaryngology Residency Admissions: A Random Sampling Analysis.** *The Laryngoscope*  
Halagur, A. S., Balakrishnan, K., Ayoub, N.  
2024
- **Consensus on intake questionnaire data elements in the development of an aerodigestive registry.** *International journal of pediatric otorhinolaryngology*  
Ruiz, R., Wooten, C., Balakrishnan, K., Boesch, R. P., Prager, J., Rosen, R., Sidell, D., de Alarcon, A., Chiou, E. H., Rutter, M. J., Piccione, J.  
2024; 182: 112016

- **Inherent Bias in Large Language Models: A Random Sampling Analysis.** *Mayo Clinic proceedings. Digital health*  
Ayoub, N. F., Balakrishnan, K., Ayoub, M. S., Barrett, T. F., David, A. P., Gray, S. T.  
2024; 2 (2): 186-191
- **Towards a wraparound model of surgical care: Expanding out-of-hospital phases and integrating health justice considerations to improve health outcomes.** *American journal of surgery*  
Mukund, A. X., Lu, A., Asamoah, A., Balakrishnan, K.  
2024: 115786
- **Suprazygomatic Maxillary Nerve Blocks and Opioid Requirements in Pediatric Adenotonsillectomy: A Randomized Clinical Trial.** *JAMA otolaryngology-- head & neck surgery*  
Lin, C., Abboud, S., Zoghbi, V., Kasimova, K., Thein, J., Meister, K. D., Sidell, D. R., Balakrishnan, K., Tsui, B. C.  
2024
- **The utility of ChatGPT as a generative medical translator.** *European archives of oto-rhino-laryngology : official journal of the European Federation of Oto-Rhino-Laryngological Societies (EUFOS) : affiliated with the German Society for Oto-Rhino-Laryngology - Head and Neck Surgery*  
Grimm, D. R., Lee, Y. J., Hu, K., Liu, L., Garcia, O., Balakrishnan, K., Ayoub, N. F.  
2024
- **Impact of a Daily Huddle on Safety in Perioperative Services.** *Joint Commission journal on quality and patient safety*  
Tuyishime, H., Claire, R., Balakrishnan, K., Chan, H., Lam, L., Randolph, M., Stroud, J., Traber, K., Tileston, K., Shea, K.  
2024
- **Therapy deserts: A call to action to address inequitable access to therapy services among pediatric orthopaedic patients.** *Journal of the Pediatric Orthopaedic Society of North America*  
van Niekerk, M., Harbacheck, K., Obilo, C., Liu, T., Weisman, A., Johnson, A., Magaña, S., Balakrishnan, K., Cook, K., Shea, K.  
2024; 7: 100040
- **Closing the Gap: Exploring the Role of Cap Grafts in Tracheocutaneous Fistula Closure** *INDIAN JOURNAL OF OTOLARYNGOLOGY AND HEAD & NECK SURGERY*  
Shashidhar, T. B., Balakrishnan, K., Chandra, I.  
2024
- **Robotic Slide Tracheoplasty for Pediatric Tracheal Stenosis in Three-Dimensional Printed and Pig Trachea Models.** *Annals of thoracic surgery short reports*  
Byrd, C. T., Balakrishnan, K., Holsinger, F. C., Ma, M. R., Janus, J. R., Guo, H. H., Lui, N. S.  
2024; 2 (1): 103-107
- **Use of temporary tracheostomy occlusion to reduce the risk of sternal wound infection after sternotomy in congenital cardiac surgery.** *Cardiology in the young*  
Azimzadeh, J. B., Sidell, D. R., Balakrishnan, K., Mathew, R., Asija, R., Rutter, M. J., Meister, K. D.  
2024: 1-6
- **Inherent Bias in Large Language Models: A Random Sampling Analysis** *Mayo Clinic Proceedings: Digital Health*  
Ayoub, N. F., Balakrishnan, K., Ayoub, M. S., Barrett, T. F., David, A., Gray, S.  
2024; 2 (2): 186-191
- **Prenatal Diagnosis and Postnatal Management of a Fetal Pericardial Mass.** *NeoReviews*  
Weigel, N., Hintz, S., Kaplinski, M., Barth, R., Balakrishnan, K., Panelli, D., Ma, M., Chitkara, R.  
2023; 24 (10): e683-e689
- **Allyship to Advance Diversity, Equity, and Inclusion in Otolaryngology: What We Can All Do.** *Current otorhinolaryngology reports*  
Balakrishnan, K., Faucett, E. A., Villwock, J., Boss, E. F., Esianor, B. I., Jefferson, G. D., Graboyes, E. M., Thompson, D. M., Flanary, V. A., Brenner, M. J.  
2023; 11 (3): 201-214
- **Redefining "Value" in Surgery: Development of a Comprehensive Value Score for Outpatient Endocrine Surgery.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Ayoub, N. F., Noel, J., Orloff, L. A., Balakrishnan, K.  
2023

- **Allyship to Advance Diversity, Equity, and Inclusion in Otolaryngology: What We Can All Do** *CURRENT OTORHINOLARYNGOLOGY REPORTS*  
Balakrishnan, K., Faucett, E. A., Villwock, J., Boss, E. F., Esianor, B. I., Jefferson, G. D., Graboyes, E. M., Thompson, D. M., Flanary, V. A., Brenner, M. J.  
2023
- **A multicenter study analyzing the impact of pre-existing comorbidities on laryngotracheal reconstruction (LTR) outcomes.** *International journal of pediatric otorhinolaryngology*  
Jacobs, I. N., Giordano, T., Soaper, A., Din, T. F., Faig, W., de Alarcon, A., Balakrishnan, K., Prager, J. D., Michael, R., Douglas, S., Piccione, J.  
2023; 172: 111631
- **Time-Driven Activity-Based Cost Comparison of Thyroid Lobectomy and Radiofrequency Ablation.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Ayoub, N. F., Balakrishnan, K., Orloff, L. A., Noel, J. E.  
2023
- **Pediatric Tracheostomy Emergency Readiness Assessment Tool: International Consensus Recommendations.** *The Laryngoscope*  
Schiff, E., Propst, E. J., Balakrishnan, K., Johnson, K., Lounsbury, D. W., Brenner, M. J., Tawfik, M. M., Yang, C. J.  
2023
- **Comparison Between ChatGPT and Google Search as Sources of Postoperative Patient Instructions.** *JAMA otolaryngology-- head & neck surgery*  
Ayoub, N. F., Lee, Y., Grimm, D., Balakrishnan, K.  
2023
- **Safety and effectiveness of vocal fold injection laryngoplasty in infants less than one year of age.** *International journal of pediatric otorhinolaryngology*  
Ayoub, N., Balakrishnan, K., Meister, K., Grimm, D., Johnson, A., Maida, K., Sidell, D. R.  
2023; 168: 111542
- **Ankyloglossia: Clinical and Sociodemographic Predictors of Diagnosis and Management in the United States, 2004 to 2019.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Wei, E. X., Meister, K. D., Balakrishnan, K., Cheng, A. G., Qian, Z. J.  
2023
- **International Pediatric Otolaryngology Group: Consensus guidelines on the diagnosis and management of non-tuberculous mycobacterial cervicofacial lymphadenitis.** *International journal of pediatric otorhinolaryngology*  
Roy, C. F., Balakrishnan, K., Boudewyns, A., Cheng, A., Chun, R. H., Daniel, S. J., Fayoux, P., Hart, C., Hemansson, A., Hewitt, R., Hsu, W. C., Kuo, M., Liu, et al  
2023; 166: 111469
- **Social Perception of External Laryngeal Anatomy Related to Gender Expression in a Web-based Survey.** *The Laryngoscope*  
Kiessling, P., Balakrishnan, K., Fauer, A., Sanan, A., McDonald, D., Thomas, J., Erickson-Direnzo, E., Sung, C. K., Nuyen, B.  
2022
- **Single-port robotic transcervical long-segment thoracic tracheal reconstruction: Cadaveric proof-of-concept study.** *JTCVS techniques*  
Lui, N. S., Holsinger, F. C., Ma, M. R., Janus, J. R., Balakrishnan, K.  
2022; 16: 231-236
- **International Pediatric Otolaryngology Group (IPOG) consensus recommendations: Evaluation and management of congenital tracheal stenosis.** *International journal of pediatric otorhinolaryngology*  
Sidell, D. R., Meister, K. D., de Alarcon, A., Boudewyns, A., Brigger, M., Chun, R., Fayoux, P., Goudy, S., Hart, C. K., Hewitt, R., Hsu, W., Javia, L. R., Johnson, et al  
2022; 161: 111251
- **Language Matters.** *Annals of surgery*  
Losorelli, S., Su-Velez, B., Balakrishnan, K.  
2022
- **Impact of COVID-19 on nationwide pediatric otolaryngology practice: Adenotonsillectomies (TA) and tonsil-related diagnoses trends.** *American journal of otolaryngology*

- Allen, D. Z., Challapalli, S., Lee, K. H., Bell, C. S., Roy, S., Bowe, S., Balakrishnan, K., Chang, C. W., Huang, Z.  
2022; 43 (5): 103526
- **Moving Beyond Detection: Charting a Path to Eliminate Health Care Disparities in Otolaryngology.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Bowe, S. N., Megwalu, U. C., Bergmark, R. W., Balakrishnan, K.  
2022: 1945998221094460
  - **Consensus on Triple Endoscopy Data Elements Preparatory to Development of an Aerodigestive Registry.** *The Laryngoscope*  
Boesch, R. P., de Alarcon, A., Piccione, J., Prager, J., Rosen, R., Sidell, D. R., Wootten, C., Balakrishnan, K., Aerodigestive Research Collaborative  
2022
  - **Suprazygomatic infratemporal pterygopalatine fossa block with adjuvant low-dose dexmedetomidine for adenotonsillectomy.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*  
Zoghbi, V., Okonski, F., Pan, S., Lin, C., Balakrishnan, K., Tsui, B. C.  
1800
  - **Impact of COVID-19 on nationwide pediatric otolaryngology: Otitis media and myringotomy tube trends.** *American journal of otolaryngology*  
Allen, D. Z., Challapalli, S., McKee, S., Lee, K. H., Bell, C. S., Roy, S., Bowe, S., Balakrishnan, K., Chang, C. W., Huang, Z.  
1800; 43 (2): 103369
  - **Disruptive Therapy Using a Nonsurgical Orthodontic Airway Plate for the Management of Neonatal Robin Sequence: 1-Year Follow-up.** *The Cleft palate-craniofacial journal : official publication of the American Cleft Palate-Craniofacial Association*  
Choo, H., Galera, R. I., Balakrishnan, K., Lin, H. C., Ahn, H., Lorenz, P., Khosla, R. K., Profit, J., Poets, C. F., Lee, J. S.  
2022: 10556656221076980
  - **Overcoming Vaccine Hesitancy Around Bell Palsy in Otolaryngology-Head and Neck Surgery: Lessons for COVID-19 Pandemic and Beyond.** *JAMA otolaryngology-- head & neck surgery*  
Lam, D. J., Balakrishnan, K., Brenner, M. J.  
2021
  - **Neonatal Nasal Obstruction** *CURRENT OTORHINOLARYNGOLOGY REPORTS*  
Diop, M., Balakrishnan, K.  
2021
  - **Price Transparency and Compliance With Federal Regulation for Pediatric Tonsillectomy.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Ayoub, N. F., Balakrishnan, K.  
2021: 1945998211047146
  - **Effects of Social Determinants of Health Care on Pediatric Thyroid Cancer Outcomes in the United States.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Gruszczynski, N. R., Low, C. M., Choby, G., Meister, K. D., Smith, B. H., Balakrishnan, K.  
2021: 1945998211032901
  - **Opioid-Free Tonsillectomy With and Without Adenoidectomy: The Role of Regional Anesthesia in the "New Era".** *Anesthesia and analgesia*  
Tsui, B. C., Pan, S., Smith, L., Lin, C., Balakrishnan, K.  
2021; 133 (1): e7-e9
  - **Sinonasal adenocarcinoma: A population-based analysis of demographic and socioeconomic disparities.** *Head & neck*  
Low, C. M., Balakrishnan, K., Smith, B. M., Stokken, J. K., O'Brien, E. K., Van Gompel, J. J., Rowan, N. R., Choby, G.  
2021
  - **Pediatric Bilateral Vocal Fold Paralysis** *CURRENT OTORHINOLARYNGOLOGY REPORTS*  
Kohn, J., Balakrishnan, K., Sidell, D.  
2021; 9 (2): 127-133
  - **Suprazygomatic maxillary (SZM) nerve blocks for perioperative pain control in pediatric tonsillectomy and adenoidectomy.** *Journal of clinical anesthesia*  
Smith, L., Balakrishnan, K., Pan, S., Tsui, B. C.  
2021; 71: 110240

- **Laryngeal and Tracheal Pressure Injuries in Patients With COVID-19-Reply** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*  
Balakrishnan, K., Brenner, M. J., Hillel, A. T.  
2021
- **Laryngeal and Tracheal Pressure Injuries in Patients With COVID-19.** *JAMA otolaryngology-- head & neck surgery*  
Balakrishnan, K., Brenner, M. J., Hillel, A. T.  
2021
- **Postoperative dysphagia immediately following pediatric endoscopic laryngeal cleft repair.** *International journal of pediatric otorhinolaryngology*  
Kiessling, P., Smith, A., Puccinelli, C., Balakrishnan, K.  
2021; 142: 110625
- **Systemic Bevacizumab for Treatment of Respiratory Papillomatosis: International Consensus Statement.** *The Laryngoscope*  
Sidell, D. R., Balakrishnan, K., Best, S. R., Zur, K., Buckingham, J., De Alarcon, A., Baroody, F. M., Bock, J. M., Boss, E. F., Bower, C. M., Campisi, P., Chen, S. F., Clarke, et al  
2021
- **Outpatient healthcare use and outcomes after pediatric tracheostomy.** *International journal of pediatric otorhinolaryngology*  
Qian, Z. J., Megwalu, U. C., Cheng, A. G., Balakrishnan, K.  
2021; 151: 110963
- **International Pediatric Otolaryngology Group (IPOG) survey: Efforts to avoid complications in home tracheostomy care.** *International journal of pediatric otorhinolaryngology*  
Caloway, C., Balakrishnan, K., Boudewyns, A., Chan, K. H., Cheng, A., Daniel, S. J., Fayoux, P., Garabedian, N., Hart, C., Moreddu, E., Muntz, H., Nicollas, R., Nuss, et al  
2020; 141: 110563
- **Endotracheal metallic stent removal: A novel ABC (airway balloon collapse) technique.** *International journal of pediatric otorhinolaryngology*  
Cofer, S. A., Badaoui, J. N., Boesch, R. P., Balakrishnan, K.  
2020: 110490
- **Oral Intubation Attempts in Patients With a Laryngectomy: A Significant Safety Threat.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Brenner, M. J., Cramer, J. D., McGrath, B. A., Balakrishnan, K., Stepan, K. O., Pandian, V., Roberson, D. W., Shah, R. K., Chen, A. Y., Brook, I., Nussenbaum, B.  
2020: 194599820960728
- **Competency-Based Assessment Tool for Pediatric Esophagoscopy: International Modified Delphi Consensus.** *The Laryngoscope*  
Faucett, E. A., Wolter, N. E., Balakrishnan, K., Ishman, S. L., Mehta, D., Parikh, S., Nguyen, L. H., Preciado, D., Rutter, M. J., Prager, J. D., Green, G. E., Pransky, S. M., Elluru, et al  
2020
- **Opioid Prescribing Patterns Following Pediatric Tonsillectomy in the United States, 2009-2017.** *The Laryngoscope*  
Qian, Z. J., Alyono, J. C., Jin, M. C., Cooperman, S. P., Cheng, A. G., Balakrishnan, K.  
2020
- **Intraoperative Sentinel Events in the Era of Surgical Safety Checklists: Results of a National Survey.** *OTO open*  
Cramer, J. D., Balakrishnan, K., Roy, S., David Chang, C. W., Boss, E. F., Brereton, J. M., Monjur, T. M., Nussenbaum, B., Brenner, M. J.  
2020; 4 (4): 2473974X20975731
- **Multidisciplinary Safety Recommendations After Tracheostomy During COVID-19 Pandemic: State of the Art Review.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Meister, K. D., Pandian, V., Hillel, A. T., Walsh, B. K., Brodsky, M. B., Balakrishnan, K., Best, S. R., Chinn, S. B., Cramer, J. D., Graboyes, E. M., McGrath, B. A., Rassekh, C. H., Bedwell, et al  
2020: 194599820961990
- **Laryngotracheal Reconstruction in a Patient With a Central Conducting Lymphatic Anomaly.** *The Laryngoscope*  
Macielak, R. J., Low, C. M., Tollefson, M. M., Balakrishnan, K.  
2020

- **International Pediatric Otolaryngology Group (IPOG): Consensus recommendations on the prenatal and perinatal management of anticipated airway obstruction.** *International journal of pediatric otorhinolaryngology*  
Puricelli, M. D., Rahbar, R., Allen, G. C., Balakrishnan, K., Brigger, M. T., Daniel, S. J., Fayoux, P., Goudy, S., Hewitt, R., Hsu, W., Ida, J. B., Johnson, R., Leboulanger, et al  
2020; 138: 110281
- **Speech Pathology Utilization and Stroboscopy Before and After Adult Medialization Laryngoplasty.** *Journal of voice : official journal of the Voice Foundation*  
Orbelo, D. M., Ekblom, D. C., Van Houten, H. K., Bayan, S. L., Balakrishnan, K.  
2020
- **The Difficult Airway and Aerosol-Generating Procedures in COVID-19: Timeless Principles for Uncertain Times.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Smith, J. D., Chen, M. M., Balakrishnan, K., Sidell, D. R., di Stadio, A., Schechtman, S. A., Brody, R. M., Kupfer, R. A., Rassekh, C. H., Brenner, M. J.  
2020: 194599820936615
- **COVID-19 Pandemic: What Every Otolaryngologist-Head and Neck Surgeon Needs to Know for Safe Airway Management.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Balakrishnan, K., Schechtman, S., Hogikyan, N. D., Teoh, A. Y., McGrath, B., Brenner, M. J.  
2020: 194599820919751
- **Pediatric tracheostomy practice patterns.** *International journal of pediatric otorhinolaryngology*  
Sioshansi, P. C., Balakrishnan, K., Messner, A., Sidell, D.  
2020; 133: 109982
- **Sclerotherapy for lymphatic malformations of head and neck: Systematic review and meta-analysis.** *Journal of vascular surgery. Venous and lymphatic disorders*  
De Maria, L., De Sanctis, P., Balakrishnan, K., Tollefson, M., Brinjikji, W.  
2020; 8 (1): 154–64
- **Sclerotherapy for Venous Malformations of Head and Neck: Systematic Review and Meta-Analysis.** *Neurointervention*  
De Maria, L. n., De Sanctis, P. n., Balakrishnan, K. n., Tollefson, M. n., Brinjikji, W. n.  
2020
- **The Relationship between Croup and Gastroesophageal Reflux: A Systematic Review and Meta-Analysis.** *The Laryngoscope*  
Coughran, A. n., Balakrishnan, K. n., Ma, Y. n., Vaezeafshar, R. n., Capdarest-Arest, N. n., Hamdi, O. n., Sidell, D. R.  
2020
- **International Pediatric Otolaryngology group (IPOG) consensus on the diagnosis and management of pediatric obstructive sleep apnea (OSA).** *International journal of pediatric otorhinolaryngology*  
Benedek, P. n., Balakrishnan, K. n., Cunningham, M. J., Friedman, N. R., Goudy, S. L., Ishman, S. L., Katona, G. n., Kirkham, E. M., Lam, D. J., Leboulanger, N. n., Lee, G. S., Le Treut, C. n., Mitchell, et al  
2020; 138: 110276
- **International Pediatric Otolaryngology Group (IPOG) management recommendations: Pediatric tracheostomy decannulation.** *International journal of pediatric otorhinolaryngology*  
Kennedy, A. n., Hart, C. K., de Alarcon, A. n., Balakrishnan, K. n., Bowudewyns, A. n., Chun, R. n., Fayoux, P. n., Goudy, S. L., Hartnick, C. n., Hsu, W. C., Johnson, R. F., Kuo, M. n., Peer, et al  
2020; 141: 110565
- **Sequential Minimally Invasive Fetal Interventions for Two Life-Threatening Conditions: A Novel Approach.** *Fetal diagnosis and therapy*  
Ruano, R. n., Ibirogba, E. R., Wyatt, M. A., Balakrishnan, K. n., Qureshi, M. Y., Kolbe, A. B., Dearani, J. A., Boesch, R. P., Segura, L. n., Arendt, K. W., Bendel-Stenzel, E. n., Salik, S. S., Klinkner, et al  
2020: 1–8
- **International Pediatric Otolaryngology Group (IPOG) consensus recommendations: Management of suprastomal collapse in the pediatric population.** *International journal of pediatric otorhinolaryngology*  
Doody, J. n., Alkhateeb, A. n., Balakrishnan, K. n., Bedwell, J. n., Carter, J. n., Choi, S. S., Cheng, A. T., Daniel, S. J., Dahl, J. n., De Alarcon, A. n., Fayoux, P. n., Hart, C. K., Hartnick, et al  
2020; 139: 110427

- **COVID-19 pandemic and health care disparities in head and neck cancer: Scanning the horizon.** *Head & neck*  
Graboyes, E. n., Cramer, J. n., Balakrishnan, K. n., Cognetti, D. M., López-Cevallos, D. n., de Almeida, J. R., Megwalu, U. C., Moore, C. E., Nathan, C. A., Spector, M. E., Lewis, C. M., Brenner, M. J.  
2020
- **Coordinated approach to spinal and tracheal reconstruction in a patient with morquio syndrome.** *International journal of pediatric otorhinolaryngology*  
Kiessling, P., Stans, A. A., Dearani, J. A., Boesch, R. P., Fogelson, J. L., Matsumoto, J. M., Haile, D. T., Balakrishnan, K.  
2020; 128: 109721
- **International Pediatric ORL Group (IPOG) Robin Sequence consensus recommendations.** *International journal of pediatric otorhinolaryngology*  
Fayoux, P., Daniel, S. J., Allen, G., Balakrishnan, K., Boudewyns, A., Cheng, A., De Alarcon, A., Goel, D., Hart, C. K., Leboulanger, N., Lee, G., Moreddu, E., Muntz, et al  
2019; 130: 109855
- **Inability to Mask Ventilate During Myringotomy Tube Replacement: A Case Report.** *A&A practice*  
Wong, A. V., Balakrishnan, K., Nemergut, M. E.  
2019
- **Competency-Based Assessment Tool for Pediatric Tracheotomy: International Modified Delphi Consensus.** *The Laryngoscope*  
Propst, E. J., Wolter, N. E., Ishman, S. L., Balakrishnan, K., Deonarain, A. R., Mehta, D., Zalzal, G., Pransky, S. M., Roy, S., Myer, C. M., Torre, M., Johnson, R. F., Ludemann, et al  
2019
- **Patient Safety/Quality Improvement Primer, Part II: Prevention of Harm Through Root Cause Analysis and Action (RCA(2)) OTOLARYNGOLOGY-HEAD AND NECK SURGERY**  
Balakrishnan, K., Brenner, M. J., Gosbee, J. W., Schmalbach, C. E.  
2019; 161 (6): 911–21
- **Temporary bronchial stenting for airway compression in the interstage palliation of functional single ventricle ANNALS OF PEDIATRIC CARDIOLOGY**  
Barnes, J., Boesch, R., Balakrishnan, K., Said, S. M., Van Dorn, C. S.  
2019; 12 (3): 308–11
- **Predictors of High Costs of Care among Otolaryngology Patients OTOLARYNGOLOGY-HEAD AND NECK SURGERY**  
Balakrishnan, K., Moriarty, J. P., Rosedahl, J., Driscoll, C. L., Borah, B. J.  
2019; 161 (2): 271–77
- **Impact of a Formal Patient Safety and Quality Improvement Curriculum: A Prospective, Controlled Trial LARYNGOSCOPE**  
Jamal, N., Bowe, S. N., Brenner, M. J., Balakrishnan, K., Bent, J. P.  
2019; 129 (5): 1100–1106
- **Identification of aggressive Gardner syndrome phenotype associated with a de novo APC variant, c.4666dup COLD SPRING HARBOR MOLECULAR CASE STUDIES**  
Kiessling, P., Dowling, E., Huang, Y., Ho, M., Balakrishnan, K., Weigel, B. J., Highsmith, W., Niu, Z., Schimmenti, L. A.  
2019; 5 (2)
- **Medialization laryngoplasty/arytenoid adduction: US outcomes, discharge status, and utilization trends LARYNGOSCOPE**  
Ekbohm, D. C., Orbelo, D. M., Sangaralingham, L. R., Mwangi, R., Van Houten, H. K., Balakrishnan, K.  
2019; 129 (4): 952–60
- **Tracheal Submucosal Lymphovenous Malformation AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE**  
Bourne, M. H., Kern, R. M., White, D., Balakrishnan, K.  
2019; 199 (4): E26–E27
- **The Impact of Cognitive and Implicit Bias on Patient Safety and Quality OTOLARYNGOLOGIC CLINICS OF NORTH AMERICA**  
Balakrishnan, K., Arjmand, E. M.  
2019; 52 (1): 35–46
- **Outcome measures for pediatric laryngotracheal reconstruction: International consensus statement LARYNGOSCOPE**

- Balakrishnan, K., Sidell, D. R., Bauman, N. M., Bellia-Munzon, G. F., Boesch, R., Bromwich, M., Cofer, S. A., Daines, C., de Alarcon, A., Garabedian, N., Hart, C. K., Ida, J. B., Leboulanger, et al  
2019; 129 (1): 244–55
- **International Pediatric Otolaryngology Group (IPOG): Juvenile-onset recurrent respiratory papillomatosis consensus recommendations.** *International journal of pediatric otorhinolaryngology*  
Lawlor, C. n., Balakrishnan, K. n., Bottero, S. n., Boudewyns, A. n., Campisi, P. n., Carter, J. n., Cheng, A. n., Cocciaglia, A. n., DeAlarcon, A. n., Derkay, C. n., Fayoux, P. n., Hart, C. n., Hartnick, et al  
2019; 128: 109697
  - **International Pediatric Otolaryngology Group (IPOG) consensus recommendations: Diagnosis, pre-operative, operative and post-operative pediatric choanal atresia care.** *International journal of pediatric otorhinolaryngology*  
Moreddu, E. n., Rizzi, M. n., Adil, E. n., Balakrishnan, K. n., Chan, K. n., Cheng, A. n., Daniel, S. J., de Alarcon, A. n., Hart, C. n., Hartnick, C. n., Inglis, A. n., Leboulanger, N. n., Pransky, et al  
2019; 123: 151–55
  - **Interdisciplinary aerodigestive care model improves risk, cost, and efficiency** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*  
Boesch, R., Balakrishnan, K., Grothe, R. M., Driscoll, S. W., Knoebel, E. E., Visscher, S. L., Cofer, S. A.  
2018; 113: 119–23
  - **Revision Thoracic Slide Tracheoplasty: Outcomes Following Unsuccessful Tracheal Reconstruction** *LARYNGOSCOPE*  
Sidell, D. R., Hart, C. K., Tabangin, M. E., Bryant, R., Rutter, M. J., Manning, P. B., Meinzen-Derr, J., Balakrishnan, K., Yang, C., de Alarcon, A.  
2018; 128 (9): 2181–86
  - **Cost comparison and safety of emergency department conscious sedation for the removal of ear foreign bodies** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*  
Olson, M. D., Saw, J., Visscher, S. L., Balakrishnan, K.  
2018; 110: 140–43
  - **Fetoscopic Therapy for Severe Pulmonary Hypoplasia in Congenital Diaphragmatic Hernia: A First in Prenatal Regenerative Medicine at Mayo Clinic** *MAYO CLINIC PROCEEDINGS*  
Ruano, R., Klinkner, D. B., Balakrishnan, K., Novoa, V., Davies, N., Potter, D. D., Carey, W. A., Colby, C. E., Kolbe, A. B., Arendt, K. W., Segura, L., Sviggum, H. P., Lemens, et al  
2018; 93 (6): 693–700
  - **Revision thoracic slide tracheoplasty: Outcomes following unsuccessful tracheal reconstruction.** *The Laryngoscope*  
Sidell, D. R., Hart, C. K., Tabangin, M. E., Bryant, R. 3., Rutter, M. J., Manning, P. B., Meinzen-Derr, J., Balakrishnan, K., Yang, C., de Alarcon, A.  
2018
  - **Indirect management of full-thickness tracheal erosion in a complex pediatric patient** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*  
Trousdale, W. H., Boesch, R., Orvidas, L. J., Balakrishnan, K.  
2018; 107: 155–59
  - **Structure and Functions of Pediatric Aerodigestive Programs: A Consensus Statement** *PEDIATRICS*  
Boesch, R., Balakrishnan, K., Acra, S., Benscoter, D. T., Cofer, S. A., Collaco, J. M., Dahl, J. P., Daines, C. L., DeAlarcon, A., DeBoer, E. M., Deterding, R. R., Friedlander, J. A., Gold, et al  
2018; 141 (3)
  - **Trans-nasal flexible bronchoscopy in wheezing children: Diagnostic yield, impact on therapy, and prevalence of laryngeal cleft** *PEDIATRIC PULMONOLOGY*  
Boesch, R. P., Baughn, J. M., Cofer, S. A., Balakrishnan, K.  
2018; 53 (3): 310–15
  - **Definitive airway management after prehospital supraglottic rescue airway in pediatric trauma**  
Hernandez, M. C., Antiel, R. M., Balakrishnan, K., Zielinski, M. D., Klinkner, D. B.  
W B SAUNDERS CO-ELSEVIER INC.2018: 352–56
  - **National Multispecialty Survey Results: Comparing Morbidity and Mortality Conference Practices within and outside Otolaryngology** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*  
Balakrishnan, K., Arjmand, E. M., Nussenbaum, B., Snyderman, C.

2018; 158 (2): 273–79

- **Primary cervical leiomyoma: A rare cause of a posterior neck mass in a pediatric patient** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*  
Oliver, J. D., Anzalone, C., Balakrishnan, K.  
2018; 104: 166–69
- **International Pediatric Otolaryngology Group: Consensus guidelines on the diagnosis and management of type I laryngeal clefts** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*  
Yeung, J. C., Balakrishnan, K., Cheng, A. T. L., Daniel, S. J., Garabedian, E., Hart, C. K., Inglis, A. F., Leboulanger, N., Liming, B. J., Moreddu, E., Nicollas, R., Russell, J. D., Rutter, et al  
2017; 101: 51–56
- **Three-dimensional printed models in multidisciplinary planning of complex tracheal reconstruction** *LARYNGOSCOPE*  
Balakrishnan, K., Cofer, S., Matsumoto, J. M., Dearani, J. A., Boesch, R.  
2017; 127 (4): 967–70
- **Endoscopic anterior-posterior cricoid split for pediatric bilateral vocal fold paralysis.** *Laryngoscope*  
Rutter, M. J., Hart, C. K., Alarcon, A. d., Daniel, S., Parikh, S. R., Balakrishnan, K., Lam, D., Johnson, K., Sidell, D. R.  
2017
- **Education on, Exposure to, and Management of Vascular Anomalies During Otolaryngology Residency and Pediatric Otolaryngology Fellowship** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*  
Chun, R., Jabbour, N., Balakrishnan, K., Bauman, N., Darrow, D. H., Elluru, R., Grimmer, J., Perkins, J., Richter, G., Shin, J.  
2016; 142 (7): 648–51
- **Predicting CPAP Use and Treatment Outcomes Using Composite Indices of Sleep Apnea Severity** *JOURNAL OF CLINICAL SLEEP MEDICINE*  
Balakrishnan, K., James, K. T., Weaver, E. M.  
2016; 12 (6): 849–54
- **The Lymphatic Malformation Function (LMF) Instrument** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*  
Kirkham, E. M., Edwards, T. C., Weaver, E. M., Balakrishnan, K., Perkins, J. A.  
2015; 153 (4): 656–62
- **Outcomes and Resource Utilization of Endoscopic Mass-Closure Technique for Laryngeal Clefts** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*  
Balakrishnan, K., Cheng, E., de Alarcon, A., Sidell, D. R., Hart, C. K., Rutter, M. J.  
2015; 153 (1): 119-123
- **Standardized Outcome and Reporting Measures in Pediatric Head and Neck Lymphatic Malformations** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*  
Balakrishnan, K., Bauman, N., Chun, R. H., Darrow, D. H., Grimmer, J. F., Perkins, J. A., Richter, G. T., Shin, J. J., Shivaram, G. M., Sidell, D. R., Elluru, R. G.  
2015; 152 (5): 948-953
- **Applying Cost Accounting to Operating Room Staffing in Otolaryngology: Time-Driven Activity-Based Costing and Outpatient Adenotonsillectomy** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*  
Balakrishnan, K., Goico, B., Arjmand, E. M.  
2015; 152 (4): 684–90
- **Prognostic Value of a Simplified Anatomically Based Nomenclature for Fetal Nuchal Lymphatic Anomalies** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*  
Longstreet, B., Balakrishnan, K., Saltzman, B., Perkins, J. A., Dighe, M.  
2015; 152 (2): 342–47
- **Primary Surgery vs Primary Sclerotherapy for Head and Neck Lymphatic Malformations** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*  
Balakrishnan, K., Menezes, M. D., Chen, B. S., Magit, A. E., Perkins, J. A.  
2014; 140 (1): 41–45

- **Composite Severity Indices Reflect Sleep Apnea Disease Burden More Comprehensively Than the Apnea-Hypopnea Index** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*  
Balakrishnan, K., James, K. T., Weaver, E. M.  
2013; 148 (2): 324–30
- **Management of Head and Neck Lymphatic Malformations** *FACIAL PLASTIC SURGERY*  
Balakrishnan, K., Perkins, J.  
2012; 28 (6): 596–602
- **Functional and Symptom Impacts of Pediatric Head and Neck Lymphatic Malformations: Developing a Patient-Derived Instrument**  
Balakrishnan, K., Edwards, T. C., Perkins, J. A.  
SAGE PUBLICATIONS LTD.2012: 925–31
- **Applications and Outcomes of Orbital and Transorbital Endoscopic Surgery**  
Balakrishnan, K., Moe, K. S.  
SAGE PUBLICATIONS LTD.2011: 815–20
- **Head and Neck Lymphatic Tumors and Bony Abnormalities: A Clinical and Molecular Review** *LYMPHATIC RESEARCH AND BIOLOGY*  
Balakrishnan, K., Majesky, M., Perkins, J. A.  
2011; 9 (4): 205–12
- **Management of airway hemangiomas.** *Expert review of respiratory medicine*  
Balakrishnan, K., Perkins, J. A.  
2010; 4 (4): 455–62
- **Heat shock protein 70 binds its own messenger ribonucleic acid as part of a gene expression self-limiting mechanism** *CELL STRESS & CHAPERONES*  
Balakrishnan, K., De Maio, A.  
2006; 11 (1): 44–50
- **Dendrite development regulated by CREST, a calcium-regulated transcriptional activator** *SCIENCE*  
Aizawa, H., Hu, S. C., Bobb, K., Balakrishnan, K., Ince, G., Gurevich, Cowan, M., Ghosh, A.  
2004; 303 (5655): 197–202