

Curriculum Vitae
Bharat Akhanda Panuganti, MD, FACS
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Education:

8/2007-5/2011	B.S.	Health Information Management, Biology (Minor)	Saint Louis University, St. Louis, MO, USA
8/2011-6/2015	M.D.	Doctor of Medicine	Saint Louis University School of Medicine, St. Louis, MO, USA

Postdoctoral Training:

7/2015-6/2021	Resident	Otolaryngology-Head and Neck Surgery	University of California at San Diego Medical Center, San Diego, CA, USA
07/2017-07/2018	NIH T32 Grant Research Trainee	Application of computational bioinformatics in the genomic stratification of head and neck squamous cell and papillary thyroid carcinoma (PI: Pablo Tamayo, PhD)	Moore Cancer Center Genomics and Computational Bioinformatics, University of California at San Diego School of Medicine, San Diego, CA, USA
07/2021-06/2022	Fellow	Laryngeal Surgery	Massachusetts General Hospital, Center for Laryngeal Surgery and Voice Rehabilitation

Faculty Academic Appointments:

2022-2024	Assistant Professor	Otolaryngology-Head and Neck Surgery	The University of Alabama at Birmingham
2024-	Assistant Professor	Otolaryngology-Head and Neck Surgery	Washington University in St. Louis

Appointments at Hospitals/Affiliated Institutions:

2022-2024	Physician	Department of Surgery, Division of Otolaryngology-Head and Neck Surgery	Birmingham Veteran Affairs Medical Center, Birmingham, AL, USA
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Major Administrative Leadership Positions:

2023-2024	Committee Chair, Otolaryngology Innovation Committee	Department of Otolaryngology-Head and Neck Surgery, The University of Alabama at Birmingham
2025-	Director of Research, Division of Laryngology	Department of Otolaryngology-Head and Neck Surgery, Washington University in St. Louis

Consulting Experience:

2024-	Clinical applications, R&D	Mauna Kea Technologies, Inc.
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2024-2025 Clinical Consultant, Healthilase Surgical, LLC
R&D

Professional Societies:

2016-	American Academy of Otolaryngology-Head and Neck Surgery	Member
2022-	American Head and Neck Society	Member
2022-	Alabama Society of Otolaryngology-Head and Neck Surgery	Member
2025-	The Triological Society	Post-Graduate Member
2025-	American College of Surgeons	Fellow

Editorial Activities:

Frontiers in Oncology, Special Issue, *Guest Editor*

Annals of Otolaryngology, Rhinology, and Laryngology, *Ad hoc reviewer*

Head and Neck, *Ad hoc reviewer*

Otolaryngology-Head and Neck Surgery, *Ad hoc reviewer*

Honors and Prizes:

2007	Saint Louis University Presidential Full-Tuition Scholarship	Saint Louis University	Academic and Leadership
2014	American College of Surgeons-Missouri Chapter Annual Meeting, 2 nd Place Poster Award	American College of Surgeons-Missouri Chapter	
2015	Distinction in Research	Saint Louis University School of Medicine	
2020	Humanitarian Travel Grant	American Academy of Otolaryngology-Head and Neck Surgery	Academic and Leadership
2021	American Rhinology Society 67 th Annual Meeting 1 st Place Poster Award	American Rhinologic Society	
2023	UAB Medicine Patient Experience Excellence Award	The University of Alabama at Birmingham	>95 th percentile in patient reported outcomes
2024	American Laryngological Association, 2024 Combined Otolaryngology Spring Meetings, Resident	American Laryngological Association	TORS with Ablative Lasers—The next frontier in laryngeal surgery?

**Research Award
(Senior
Author/Mentor)**

2026	American Laryngological Association, 2026 Combined Otolaryngology Spring Meetings, Young Faculty Award	American Laryngological Association	Transcriptional subtypes of laryngeal papillomatosis are defined by differences in canonical pro-tumorigenic molecular pathways—a clinically agnostic analysis.
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Report of Funded Projects

Funded Current Projects

- 2024- Combination optical imaging to guide transoral laser microsurgery in larynx cancer. *NIH R21 (Award #1R21CA292196-01)- **\$374,880***
Role: Principal Investigator (Co-PI: Jason Warram, PhD)
To establish metrics for a phase II clinical trial evaluating combination intraoperative targeted fluorescence guided surgery (FGS) and probe-based confocal laser endomicroscopy to guide resection margins and post-resection margins in patients with laryngeal cancer. To elucidate incremental efficacy of detecting clinically occult disease, originating from peripheral mucosa and deep submucosae, using combination optical imaging.
- 2025- Assessment of safety and residence time of sustained-release triamcinolone formulation in poly lactic-co-glycolic acid (PLGA) microspheres in the rat subglottic submucosal compartment. *American Laryngological Association Seymour Cohen Research Grant- **\$15,000***
Role: Principal Investigator
To assess biocompatibility and residence time of a unique long-acting steroid formulation embedded in PLGA microspheres insinuated in the submucosal compartment of the rat trachea, in preparation for a phase I human trial.
- 2025- Integrative Sparse Feature Matching, Spatial Analysis, and AI-Based Tissue Characterization for Comprehensive Multi-Modal Tumor Mapping in Laryngeal Cancer Management (IRB-300011188)
*Washington University in St. Louis, ICTS Precision Health Grant- **\$25,000***
Role: Principal Investigator (Co-PI: Nathan Jacobs, PhD)
Collaborative endeavor towards the development of a computation platform leveraging machine learning techniques to extract and correlate key features from multiple imaging modalities in real time, despite inherent differences in resolution and perspective, to generate an integrated, dynamic intraoperative tumor map based on information gleaned from a spectrum of optical imaging sources.
- 2025- Fluorescein-Enhanced Confocal Endomicroscopy (CLE) for Real-Time Tumor Mapping and Margin Assessment in Head & Neck and Brain Cancer Surgery
*Barnes Jewish Hospital Foundation Grant- **\$230,000***
Role: Principal Investigator (Co-PI: Dimitrios Mathios, MD)
Interdepartmental collaboration exploring incremental value of CLE with fluorescein during head and neck mucosal, salivary gland, and brain tumor resections, assessed via relative impact on local recurrence rates and functional outcomes.
- 2026- Quantitative Assessment of Collateral Thermal Injury During Office-Based Laser Treatment Using Blue-Light Laser Technology: An AI-Aided Analysis

*Midwest Stone Institute Research Grant- **\$7500***

Role: Principal Investigator

Effort to more objectively scale the effect of collateral thermal injury during in-office laser resections of laryngeal pathology, employing an AI paradigm to help predict functional outcomes.

Report of Local Teaching and Training

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs):

2022	UAB Laryngeal Dissection Workshop Otolaryngology residents, fellows, and speech language pathology fellows	The University of Alabama at Birmingham School of Medicine One hour lecture, supervision of three-hour dissection lab
2023	UAB Anesthesiology Airway Workshop Open Emergency Airway Securement Anesthesiology and Pulmonology residents/fellows	The University of Alabama at Birmingham School of Medicine Two hours of lecturing and supervision of cricothyrotomy and tracheotomy securement in a simulated environment

Research Supervisory and Training Responsibilities:

2023-2024	Supervision of and training in research Patrick Molina, PhD, 48-606 Physician Scientist Medical Student Research Elective (Co-Proctor) <i>In silico</i> analysis assessing correlation between oral cavity squamous cell carcinoma microbiome, transcriptome, and disease specific survival using publicly available data.	The University of Alabama at Birmingham School of Medicine 2-3 hours per week
2021-2022	Supervision of and training in research Mitchell Flagg, MS, Medical Student <i>In silico</i> investigation to assess molecular features of glottic squamous cell carcinoma using the Onco-GPS computational methodology	University of California at San Diego Medical Center, San Diego, CA, USA 15 hours per month of meetings, training, and collaboration

Report of Local, Regional, National and International Invited Teaching and Presentations

Local

2013	Myeloid stem cell phylogenetic divergence in an elderly woman. (Selected Oral Abstract)	Single lecture 48 th Annual Alpha Omega Alpha Research Forum Saint Louis University School of Medicine, St. Louis, MO, USA.
2014	Bilateral encephaloceles and CSF rhinorrhea after facial advancement in patients with craniofacial dysostoses: considerations for repair. (Selected Oral Abstract)	Single lecture 25 th Annual Harkins Memorial Lecture and Research Forum

Saint Louis University School of Medicine, St. Louis, MO, USA.

2017	Short-term morbidity after the endoscopic modified Lothrop (Draf-III) procedure compared with Draf-IIa. (Selected Oral Abstract)	2017 UCSD Annual Department of Surgery Research Symposium San Diego, California, USA.
2023	Fundamentals of surgical laryngoscopy/ Grand Rounds	UAB Department of Otolaryngology Birmingham, Alabama, USA.
2023	Contemporary Management of Laryngotracheal Stenosis: An Airway Surgeon's Perspective/ Grand Rounds	UAB Department of Rheumatology Birmingham, Alabama, USA.
2023	Transoral Robotic Surgery in the Larynx and Hypopharynx	UAB Departments of Otolaryngology and Radiation Oncology First Annual Multidisciplinary Oropharyngeal Cancer Conference Birmingham, Alabama, USA.
2023	Approach to Management of Early Staged Glottic and Supraglottic Squamous Cell Carcinoma using Robotics and Novel Intraoperative Imaging Modalities/ Grand Rounds	Louisiana State University at Shreveport, Department of Otolaryngology Shreveport, Louisiana, USA.
2023	Contemporary endoscopic management of laryngeal cancers./ Grand Rounds	University of California at San Diego Department of Otolaryngology-Head and Neck Surgery San Diego, California, USA.
2024	Effects of Medicaid Expansion on Otolaryngologic Care./ Grand Rounds	UAB Department of Otolaryngology Birmingham, Alabama, USA.
2024	Laryngology for the General Otolaryngologist./ Grand Rounds	UAB Department of Otolaryngology Birmingham, Alabama, USA.
Regional		
2022	Biomechanics and Contemporary Surgical Management of the Human Voice	Single lecture Alabama Voice Foundation Fall Chapter Meeting, Birmingham, Alabama, USA.
2023	Contemporary Advances in the Management of Early Laryngeal Cancer: Adaptation of Robotics, Intraoperative Imaging, and Lasers.	Single lecture Gulf Shores Regional Otolaryngology Meeting, Gulf Shores, Alabama, USA.
2023	Endoscopic Management of Early Laryngeal Cancers With Ultra-Narrow Margins.	Single lecture The University of Alabama at Birmingham Otolaryngology Clinical Updates Meeting
2024	Management of "Scary" Airways.	Single lecture Gulf Shores Regional Otolaryngology Meeting, Gulf Shores, Alabama, USA.

National

2018	Discriminating oncogenic states in head and neck squamous cell carcinoma.	Single lecture National Cancer Institute Head & Neck/Thyroid SPORE Workshop Rockville, Maryland, USA
2018	Rate and factors associated with change in surgeon for revision endoscopic sinus surgery. (Selected Oral Abstract)	American Academy of Otolaryngology-Head and Neck Surgery 2018 Annual Meeting Atlanta, Georgia, USA.
2019	Rates of primary radiotherapy versus surgery and insurance coverage in the early glottic cancer population following the implementation of the Patient Protection and Affordable Care Act. (Selected Oral Abstract)	2019 Annual Fall Voice Conference Dallas, Texas, USA.
2023	Transcriptional subtype of glottic squamous cell carcinoma predictive of inferior disease-specific survival. (Selected Oral Abstract)	American Laryngological Association, 2023 Combined Otolaryngology Spring Meetings Boston, Massachusetts, USA.
2023	Use of probe-based confocal laser endomicroscopy as an intraoperative tissue imaging modality during endoscopic laryngeal cancer resections—a case series. (Selected Oral Abstract)	2023 Annual Fall Voice Conference Washington D.C., USA.

International

2017	Discerning oncogenic states among papillary thyroid carcinoma using the Onco-GPS computational cancer classification platform.	Single lecture International Thyroid Oncology Group 2017 Annual Meeting, Los Angeles, CA, USA
2020	Fundamentals of thyroid surgery.	Single lecture Moi Teaching and Referral Hospital, University of Nairobi Otolaryngology Residency Grand Rounds, Eldoret, Kenya
2023	Pathophysiology and Molecular Mechanisms Underlying Recurrent Respiratory Papillomatosis	Single lecture 30 th Congress of Union of European Phoniaticians, Antalya, Turkey
2023	Transcriptomic subtypes of laryngeal papillomatosis differentiate based on relative activation of canonical pro-tumorigenic pathways. (Selected Oral Abstract)	Single lecture 30 th Congress of Union of European Phoniaticians, Antalya, Turkey
2024	Contemporary Advances in the Management of Early Laryngeal Cancers—Adaptation of Robotics, Intraoperative Optical Imaging, and Lasers	Single lecture Head and Neck Academic Center, University College of London
2024	Margin Assessment in the Transoral Laser Microsurgical Management of Early Glottic Cancer	Single lecture Grand Rounds in Laryngology, Asia-Pacific Laryngology Association Collaborative Webinar Series

2024	Autologous rib graft and temporoparietal fascia free flap: a versatile compositive reconstructive technique for hemilaryngeal defects and tracheal stenosis (Selected Oral Abstract	Single lecture British Laryngological Association, Cutting Edge Laryngology Conference 2024
2025	Advanced Intraoperative Imaging Modalities in the Management of Early Larynx Cancer	Single lecture (Invited International Faculty) 13 th Annual Conference of Laryngology & Voice Association, Laryngology Summit 2025
2025	TORS with Laser Manipulation in the Management of Benign and Malignant Laryngeal Conditions	Single lecture (Invited International Faculty) 13th Annual Conference of Laryngology & Voice Association, Laryngology Summit 2025
2025	Ablative Laser Technique in the Management of Early Glottic Cancer	Single lecture (Invited International Faculty) 13th Annual Conference of Laryngology & Voice Association, Laryngology Summit 2025

Report of Clinical Activities and Innovations

Past and Current Licensure and Board Certification:

2024-	Missouri State Medical License
2022-2025	Alabama State Medical License #44437
2022-	Certification, American Board of Otolaryngology-Head and Neck Surgery
2021-2022	Massachusetts State Medical License
2016-2022	California State Medical License

Clinical Innovations:

Developed novel surgical approach to laryngeal pathology combining transoral robotic exposure with the da Vinci single-port robotic platform with ablative lasers.

I am one of few laryngeal surgeons using the da Vinci single-port robotic system, and I have combined ablative endoscopic laryngeal surgery with the vast benefits in exposure and access conveyed by robotic surgery. I am actively expanding the utility of the da Vinci SP robotic system across the spectrum of laryngeal surgery, including in the management of benign pathologies and endolaryngeal mucosal flaps/suturing.

Novel adaptation of intraoperative imaging modalities in order to optimize margin assessment during endoscopic laryngeal cancer resections.

Margin assessment and tumor mapping can be challenging in the endoscopic management of laryngeal tumors, during which tumors are either resected piecemeal or ablated, precluding standard tumor margin assessment. Given the highly complex, three-dimensional structure of the larynx, a more objective modality to assess tumor geography is needed to optimize endoscopic laryngeal cancer surgery. I am responsible for novel adaptations of probe-based confocal laser endomicroscopy using fluorescein, indocyanine green, and a tumor-specific near-infrared imaging compound (panitumumab-IRDye800) as mechanisms to optimize intraoperative tumor identification during ablative laryngeal cancer resections.

Report of Education of Patients and Service to the Community

Educational Material for Patients and the Lay Community:

Books, articles, and presentations in other media

2023	Why have I lost my voice, and how can I help to bring it back?	Interviewee	UAB News, News You Can Use
2023	The sound of resilience: A UAB patient's journey from silence to song	Interviewee	UAB News, Health & Medicine
2024	Management of Early Glottic Cancer	Interviewee	Backtable ENT

Report of Scholarship

Research Investigations:

- 1) Fairburn SC, Jehi L, Bicknell BT, Wilkes BG, Panuganti B. Applications of quantum computing in clinical care. *Front Med (Lausanne)*. 2025 Apr 23;12:1573016. doi: 10.3389/fmed.2025.1573016. PMID: 40337272
- 2) Namin AW, Bruggers SD, **Panuganti BA**, Christopher KM, Walker RJ, Varvares MA. Efficacy of bone marrow cytologic evaluations in detecting occult cancellous invasion. *Laryngoscope*. 2015 May;125(5):E173-9.
- 3) Jafari A, Tringale KR, **Panuganti BA**, Acevedo JR, Pang J, DeConde AS. Short-term morbidity after the endoscopic modified Lothrop (Draf-III) procedure compared with Draf-IIa. *Am J Rhinol Allergy*. 2017 Jul 1;31(4):265-270.
- 4) Moss WJ, Finegersh A, Jafari A, **Panuganti BA**, Coffey CS, DeConde A, Husseman J. Isolated sphenoid sinus opacifications: a systematic review and meta- analysis. *Int Forum Allergy Rhinol*. 2017 Dec;7(12):1201-1206.
- 5) **Panuganti BA**, Chang ES, Helm CW, Schwartz T, Hsueh EC, Piao J, Lai J, Veerapong J. Cytoreductive Surgery and Normothermic Intraperitoneal Chemotherapy for Signet Ring Cell Appendiceal Adenocarcinoma With Peritoneal Metastases in the Setting of Cirrhosis. *Gastroenterology Res*. 2018 Jun;11(3):247-251.
- 6) Pang J, Tringale KR, Tapia VJ, **Panuganti BA**, Qualliotine JR, Jafari A, Haft SJ, Friedman LS, Furnish T, Brumund KT, Califano JA, Coffey CS. Opioid prescribing practices in patients undergoing surgery for oral cavity cancer. *Laryngoscope*. 2018 Oct;128(10):2361-2366.
- 7) Nation J, **Panuganti BA**, Manteghi A, Pransky S. Pediatric Sialendoscopy for Recurrent Salivary Gland Swelling: Workup, Findings, and Outcomes. *Ann Otol Rhinol Laryngol*. 2019 Apr;128(4):338-344.
- 8) **Panuganti BA**, Qiu Y, Messing B, Lee G, Fakhry C, Blanco R, Ha P, Messer K, Califano JA. Effects of a Comprehensive Performance Improvement Strategy on Postoperative Adverse Events in Head and Neck Surgery. *Otolaryngol Head Neck Surg*. 2019 May;160(5):799-809.
- 9) **Panuganti BA**, Weissbrod P, Damrose E. What is the optimal timing for tracheostomy in intubated patients? *Laryngoscope*. 2020 May;130(5):1108-1109.
- 10) Liu C, Sadat SH, Ebisumoto K, Sakai A, **Panuganti BA**, Ren S, Goto Y, Haft S, Fukusumi T, Ando M, Saito Y, Guo T, Tamayo P, Yeerna H, Kim W, Hubbard J, Sharabi AB, Gutkind JS, Califano JA. Cannabinoids Promote Progression of HPV- Positive Head and Neck Squamous Cell Carcinoma via p38 MAPK Activation. *Clin Cancer Res*. 2020 Jun 1;26(11):2693-2703.
- 11) **Panuganti BA**, Jafari A, MacDonald B, DeConde AS. Predicting COVID-19 Incidence Using Anosmia and Other COVID-19 Symptomatology: Preliminary Analysis Using Google and Twitter. *Otolaryngol Head Neck Surg*. 2020 Sep;163(3):491-497.
- 12) Crawford KL, Lee JH, **Panuganti BA**, Burton BN, Jafari A, Hom DB, Watson D. Change in surgeon for revision rhinoplasty: The impact of patient demographics and surgical technique on patient retention. *Laryngoscope Investig Otolaryngol*. 2020 Nov 12;5(6):1044-1049.

- 13) **Panuganti BA**, Finegersh A, Flagg M, Tu X, Orosco R, Weissbrod PA, Califano J. Prognostic Significance of HPV Status in Laryngeal Squamous Cell Carcinoma: A Large-Population Database Study. *Otolaryngol Head Neck Surg.* 2020 Dec 1:194599820976178.
- 14) **Panuganti BA**, Stuart E, Weissbrod P. Changes in treatment trends in the early glottic cancer population after the Affordable Care Act. *Head Neck.* 2021 Jan;43(1):137-144.
- 15) **Panuganti BA**, Jafari A, Shen S, Qualliotine JR, Schueth EA, Campbell B, Ngoitsi H, Cordes S. Predictors of Quality-of-Life Improvements Following Global Head and Neck Surgery Trips to Underserved Regions. *Laryngoscope.* 2021 Mar 18.
- 16) Voora R, **Panuganti BA**, Flagg M, Kumar A, Quian A, Kotha N, Qiao BS, Weissbrod P, Rose B, Orosco R. Salvage Following Transoral Laser Microsurgery for Early Glottic Cancer in National Veteran Database. *Laryngoscope.* 2021 July. DOI: 10.1002/lary.29740
- 17) Voora RS, Kotha NV, Kumar A, Qiao EM, Qian AS, **Panuganti BA**, Banegas MP, Weissbrod PA, Stewart TF, Rose BS, Orosco RK. Association of race and health care system with disease stage and survival in veterans with larynx cancer. *Cancer.* 2021 Aug 1;127(15):2705-2713.
- 18) Pang J, Nguyen NP, Luebeck J, Ball L, Finegersh A, Ren S, Nakagawa T, Flagg M, Sadat S, Mischel PS, Xu G, Fisch K, Guo T, Cahill G, **Panuganti B**, Bafna V, Califano J. Extrachromosomal DNA in HPV mediated oropharyngeal cancer drives diverse oncogene transcription. *Clin Cancer Res.* 2021 Sep 21.
- 19) Voora R, **Panuganti BA**, Flagg M, Nelson T, Kotha N, Qiao E, Qian AS, Kumar A, Stewart TF, Rose B, Califano J, Weissbrod P, Mell LK, Orosco R. Patterns of Failure After Definitive Treatment of T4a Larynx Cancer. *Otolaryngol Head Neck Surg.* 2021 Oct 5.
- 20) **Panuganti BA**, Pang J, Francis DO, et al. Clinicodemographic Predictors of Tracheotomy Tube Size and Decannulation: A Multi-institutional Retrospective Cohort Study on Tracheotomy. *Ann Surg.* 2022 Jan 7.
- 21) **Panuganti BA**, Voora R, Coffey C, Orosco R, Weissbrod P, Califano J. Transoral laser microsurgery with neck dissection versus radiotherapy for T2N0 supraglottic cancer. *Laryngoscope.* 2022 April. ID lscope-22-0291.R1
- 22) Weissbrod PA, **Panuganti BA**, Yang J, Cheng G. Developing a Tracheal Rendezvous Procedure for Complete High Subglottic Stenosis. *Life.* 2023; 13(3):740.
- 23) Voora, RS, **Panuganti BA**, Califano J, Coffey C, and Guo T. Patterns of Lymph Node Metastasis in Parotid Cancer and Implications for Extent of Neck Dissection. *Otolaryngol Head Neck Surg.* 2023 January.
- 24) Van Stan JH, Burns J, Hron T, Zeitels S, **Panuganti BA**, Purnell PR, Mehta DD, Hillman RE, Ghasemzadeh H., Detecting Mild Phonotrauma in Daily Life. *Laryngoscope.* 2023 May 17.
- 25) Soliman SI, **Panuganti BA**, Francis DO, Pang J, Klebaner D, Asturias A, Alattar A, Wood S, Terry M, Bryson P, Clary M, Joseph I, Kuhn M, Kennedy MM, Lott DG, Weissbrod P. Factors Associated with Otolaryngologists Performing Tracheotomy: A Multi-Institutional Cohort Study. *JAMA Otolaryngol Head Neck Surg.* 2023 Oct 5.
- 26) **Panuganti BA**, Carico C, Jeyarajan H, Flagg M, Tamayo P. Transcriptional subtypes of glottic cancer characterized by differential activation of canonical oncogenic programming. *Head & Neck.* 2023; 1-11. doi:10.1002/hed.27514
- 27) Bailey L, Stone L, Jeyarajan H, Thomas C, Warram J, **Panuganti BA**. Panitumumab-IRDye800 Improves Tumor Mapping During Transoral Laser Microsurgery. *Laryngoscope.* 2023 Oct 20.
- 28) Frenken AK, Sievert M, **Panuganti B**, Aubreville M, Meyer T, Scherzad A, Gehrke T, Scheich M, Hackenberg S, Goncalves M. Feasibility of Optical Biopsy During Endoscopic Sinus Surgery With Confocal Laser Endomicroscopy: A Pilot Study. *Laryngoscope.* 2024 May 18. doi: 10.1002/lary.31503.
- 29) Yousef A, Soliman S, Soloman I, **Panuganti BA**, et al. Impact of Obesity on Timing of Tracheotomy: A Multi-institutional Retrospective Study. *Laryngoscope.* 2024 Jun 19. Doi: 10.1002/lary.31586
- 30) Stone L, Kasten B, Rao S, Gonzalez M, Stevens T, Lin D, Carroll W, Greene B, Moore L, Fuson A, James S, Hartman Y, McCammon S, **Panuganti B**, Nabell L, Li Y, Li M, Bailey L, Rosenthal E, Jeyarajan H, Thomas C, Warram J. Interim Phase II Results Using Panitumumab-IRDye800CW During Transoral Robotic Surgery in Patients with Oropharyngeal Cancer. *Clin Cancer Res.* 2024 Jun 20.
- 31) Bailey L, Stone LD, Gonzalez ML, Thomas CM, Jeyarajan H, Warram JM, **Panuganti B**. Panitumumab-IRDye800 Improves Laryngeal Tumor Mapping During Transoral Laser Microsurgery. *Laryngoscope.* 2024 Apr;134(4):1837-1841. doi: 10.1002/lary.31078. PMID: 37860983.

- 32) Thesing L, Sievert M, **Panuganti BA**, Aubreville M, Meyer T, Müller-Diesing F, Scherzad A, Hackenberg S, Goncalves M. Characterization of irradiated mucosa using confocal laser endomicroscopy in the upper aerodigestive tract. *Eur Arch Otorhinolaryngol*. 2025 Mar 21. doi: 10.1007/s00405-025-09318-8. PMID: 40119146.
- 33) **Panuganti BA**, Jeyarajan H. Transoral Robotic Posterior Glottic Scar Lysis and Partial Arytenoidectomy: Report of a Novel Application of TORS for Benign Glottic Surgery. *Ann Otol Rhinol Laryngol*. 2025 Apr;134(4):294-296. PMID: 39641175.
- 34) Sheehan DH, Asam K, Knight ND, Patel JJ, Stewart JA, Molina PA, Yi N, Viet CT, Aouizerat B, Silver N, **Panuganti B**, Thomas CM. Altered Bacteria Abundance Is Associated With Outcomes in Head and Neck Squamous Cell Carcinoma. *Otolaryngol Head Neck Surg*. 2025 Apr 14. doi: 10.1002/ohn.1262. Epub ahead of print. PMID: 40226967.
- 35) Fairburn SC, Jehi L, Bicknell BT, Wilkes BG, **Panuganti B**. Applications of quantum computing in clinical care. *Front Med (Lausanne)*. 2025 Apr 23;12:1573016. doi: 10.3389/fmed.2025.1573016. PMID: 40337272; PMCID: PMC12055853.
- 36) Bicknell BT, Rivers NJ, Skelton A, Sheehan D, Hodges C, Fairburn SC, Greene BJ, **Panuganti B**. Domain-Specific Customization for Language Models in Otolaryngology: The ENT GPT Assistant. *OTO Open*. 2025 May 5;9(2):e70125. doi: 10.1002/oto2.70125. PMID: 40331108; PMCID: PMC12051367.

Other peer-reviewed scholarship:

- 1) **Panuganti BA**, Pang J, Califano J, Chan JYK. Procedural precautions and personal protective equipment during head and neck instrumentation in the COVID-19 era. *Head Neck*. 2020 Jul;42(7):1645-1651.

Non-peer reviewed scholarship in print or other media:

Reviews, chapters, and editorials

- 1) **Panuganti BA**, Tarbox M. Evaluation and management of pruritus and scabies in the elderly population. *Clin Geriatr Med*. 2013 May;29(2):479-99.
- 2) Watson D, **Panuganti BA**. Treating Scars in the Auricle Region. *Facial Plast Surg Clin North Am*. 2017 Feb;25(1):73-81.
- 3) **Panuganti BA**, Weissbrod PA, Somal J. Critical Care and Postoperative Management of the Head and Neck Patient. *Otolaryngol Clin North Am*. 2019 Dec;52(6):1141-1156.

Case reports

- 1) **Panuganti BA**, Leach M, Antisdel J. Bilateral meningoencephaloceles with cerebrospinal fluid rhinorrhea after facial advancement in the Crouzon syndrome. *Allergy Rhinol (Providence)*. 2015 Jan;6(2):138-42.
- 2) **Panuganti BA**, Baldassarre RL, Bykowski J, Husseman J. Chronic sialadenitis with sialolithiasis associated with parapharyngeal fistula and tonsillolith. *Radiol Case Rep*. 2017 Jul 10;12(3):519-522.
- 3) **Panuganti BA**, Brigger MT. Foxtail Ingestion in an Asymptomatic Child: A True Emergency? *Otolaryngol Head Neck Surg*. 2018 Feb;158(2):395-396.
- 4) **Panuganti BA**, Jeyarajan H. Transoral robotic resection of large intramural, cervical esophageal lipoma- Report of a case and description of technique. *Clin Case Rep*. 2023 Mar 2;11(3):e7009.
- 5) Stewart JA, Reeves H, Rivers N, **Panuganti B**. A Novel Case of Paraglottic Burkholderia Cepacia Complex Infection Mimicking a Laryngeal Malignancy. *Laryngoscope*. 2025 Apr;135(4):1419-1422. doi: 10.1002/lary.31869. PMID: 39466957.

Abstracts, Poster Presentations, Exhibits, and Presentations as the Senior Author at Professional Meetings (Restricted to past 4 years):

- 1) **Panuganti BA**, Crawford K, Bracken D, Weissbrod P. Incidence and Inpatient Management Trends of Laryngeal Trauma in the 21st Century. American Laryngological Association, Combined Otolaryngology Spring Meetings, 2020.

- 2) Shen S, **Panuganti BA**, Yan C, Deconde A. Surgical Versus Endovascular Ligation of Vessels for Epistaxis in the Anticoagulated Patient Population. American Rhinologic Society, Combined Otolaryngology Spring Meetings, 2020.
- 3) Flagg M, **Panuganti BA**, Voora R, Califano J, Orosco R. Transoral robotic surgery (TORS) versus primary radiotherapy in oropharyngeal squamous cell carcinoma: an updated comparative survival analysis using a large population database. Combined Otolaryngology Spring Meetings, American Head and Neck Society, 2021. (Selected oral abstracted presented by Mitchell Flagg, MS)
- 4) **Panuganti BA**, Lee K, Guo T, Deconde A, Yan C. Incidence and implications of HPV tumor status in non-squamous cell carcinoma sinonasal malignancies. American Rhinologic Society, Combined Otolaryngology Spring Meetings, 2021.
- 5) **Panuganti BA**, Zeitels SM. Evolving Association Between Tobacco Use and Glottic Squamous Cell Carcinoma. American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting, 2023.
- 6) Jeyarajan H, Volpini L, Fuson A, **Panuganti BA**. Comparative Survival Analysis of Transoral Robotic Resection of Glottic Squamous Cell Carcinoma. American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting, 2023. (Forthcoming)
- 7) Bailey L, Jeyarajan H, Thomas C, Warram J, **Panuganti BA**. Panitumumab-IRDye800 Improves Laryngeal Tumor Mapping During Transoral Laser Microsurgery. Fall Voice Conference, 2023.
- 8) **Panuganti BA**, Sheehan D, Jeyarajan H. Transoral robotic surgical resection of laryngeal and hypopharyngeal pathology with the potassium-titanyl-phosphate laser—case series and description of a novel surgical technique. Fall Voice Conference, 2023.
- 9) Pena-Garcia A, Jeyarajan H, Fuson A, Yusuf M, Knight N, **Panuganti BA**. Survival Impact and Incidence of Need for Salvage Laryngectomy Among Patients with T3 Laryngeal Cancer Undergoing Primary Accelerated RT—A Large Population Database Study. 19th Annual UAB Residents' Research Day and The Ann B. and Julius N. Hicks Lectureship, 2024.
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