



## Jayakar V. Nayak, MD, PhD

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

Otolaryngology (Head and Neck Surgery)

### CONTACT INFORMATION

- **Administrative Contact**

Helen Simon - Research Finance Administrator

**Email** [hssimon@stanford.edu](mailto:hssimon@stanford.edu)

### Bio

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#### BIO

Dr. Jayakar V. Nayak is an Associate Professor of Otolaryngology at Stanford Otolaryngology — Head & Neck Surgery. He was born and raised in New Jersey, and received his BA with a concentration in Neurosciences from the University of Pennsylvania, and completed his MD/PhD education (PhD in immunology), as well as residency in otolaryngology, at the University of Pittsburgh. After pursuing additional Fellowship training in Rhinology and Endoscopic Sinus/Skull Base Surgery at the University of Pennsylvania, he was recruited to join the Stanford faculty in Fall 2009.

Dr. Nayak is an expert in congenital, acquired and genetic nasal and sinus disorders and in their treatment through medical and surgical alternatives. These include oral medicines, topical sprays and personalized use of medicinal compounds, as well as options that span micro-invasive, minimally invasive, external surgical approaches, and endoscopic sinus and skull base surgery where appropriate. He also serves as the chief of research in rhinology, and heads a basic science and translational research laboratory with three main areas of interest — i) nasal epithelial biology and stem cell regeneration in health and disease; ii) upper airway immunology dysfunction in chronic diseases such as cystic fibrosis and rhinosinusitis, as well as acute scenarios such as SARS-CoV-2 (COVID-19) exposure, and iii) empty nose syndrome and improving surgical procedures to optimize nasal breathing. The ultimate goal of his career is to identify ways to safely and effectively treat debilitating inflammatory and infectious sinus disorders, and improve the health and quality of life of his patients, who now hail from all around the world. Through his bench-to-bedside research, his team seeks to define the cellular and molecular determinants that lead to chronic nasal and sinus problems, in order to design more effective, targeted and affordable treatments. He also hopes to define the best methods to perform turbinate surgery to eliminate the possibility of empty nose syndrome, and improve patient outcomes.

Dr. Nayak has received numerous honors including the Commander Strike Fighter Wing Pacific Top Notch Award, the highest civilian award bestowed by the U.S. Navy for significant contributions to the Navy or its members, and the Triological Society Career Development Award to support his research endeavors. He has received 5-year R01 grant funding from the National Institutes of Health (NIH), as well research funding from the CA Institute of Regenerative Medicine (CIRM), and the Stanford SPARK program. He is a contributing author on over 110 peer-reviewed publications, serves as an invited reviewer for several medical and scientific journals, and has been invited to speak both nationally and internationally on numerous topics in modern rhinology practice, sinus and skull base surgery, and cutting edge research in rhinology.

## ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Otolaryngology (Head and Neck Surgery)
- Associate Professor - University Medical Line (By courtesy), Neurosurgery
- Member, Bio-X

## ADMINISTRATIVE APPOINTMENTS

- Associate Professor, Stanford University Department of Otolaryngology - Head and Neck Surgery, (2010- present)
- Co-Director, Rhinology Fellowship Training Program, Stanford Dept. of Otolaryngology, (2011-2018)

## HONORS AND AWARDS

- Co-Valedictorian, Woodbridge High School, New Jersey (1988)
- Baccalaureate with Honors, University of Pennsylvania (1992)
- Stanley J. Sarnoff Endowment Medical Student Research Fellowship, Salk Institute, La Jolla, CA (1994)
- Howard Hughes Medical Institute Medical Student Research Fellowship, U California, San Diego (1995)
- American Heart Association Medical Student Research Fellowship, U California, San Diego (1996)
- M.D./Ph.D. Transfer Admission & Full Scholarship Award, University of Pittsburgh (1997)
- Bernhard A. Goldman Prize in Dermatology, University of Pittsburgh (2003)
- Gold Foundation "Little Apple" Medical Student Teaching Award Finalist, University of Pittsburgh (2004)
- CORE Schering Plough Resident Research Award from the American Academy of Otolaryngology, University of Pittsburgh (2005)
- Influenza virus tropism for human nasal epithelial cells of the upper airway, Marion Avery Family Grant (2012)
- 2D and 3D Electron Microscopy Ultrastructure of Murine Nasal Cavity, Stanford Beckman Center Technology Innovation MiniGrant program (2012)
- Immune Responses to Influenza Virus in Single Human Nasal Epithelial Cells, NIH/Cooperative Centers for Translational Research on Human Immunology and Biodefense (CCHI) (2012)
- Human Mucosal Immune Responses to Influenza Virus: a Systems Biology Approach, NIH/Human Immunology Project Consortium (HIPC) (2012)
- Career Development Award - Basal cells in maintenance and regeneration of the nasal epithelium, Triological Society of the American Academy of Otolaryngology-Head and Neck Surgery (2012)
- National Finalist - Clinical Scientist Development Award, Doris Duke Charitable Foundation (December 2014)

## PROFESSIONAL EDUCATION

- M.D., Ph.D., University of Pittsburgh School of Medicine , MD - General Medicine PhD - Immunology (2003)
- B.A., University of Pennsylvania , Neuroscience (1992)

## PATENTS

- Randall Kesten, Howard Levine, Thomas R. Jenkins, Jessica M. Liberatore and Jayakar V. Nayak. "United States Patent 9,433,347 Apparatus and ethmoid for treatment of ethmoid sinusitis", Sep 6, 2016

## LINKS

- Nayak Lab Website: <https://nayaklab.stanford.edu/>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>
- Google Scholar: <https://scholar.google.com/citations?user=6MpuSs8AAAAJ>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Upper Airway Stem Cell Biology, Fate, and Repair/Regeneration of the Airway Epithelium to treat Upper and Lower Airway Disorders

## CLINICAL TRIALS

- Povidone-iodine containing nasal sprays and COVID-19 nasopharyngeal viral titers, Not Recruiting

## Teaching

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## GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)

## Publications

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### PUBLICATIONS

- **Using Indocyanine Green Fluorescence Angiography to Evaluate the Impact of Surgical and Patient Factors on Posterior Septal Artery Perfusion in Endoscopic Skull Base Surgery.** *Journal of neurological surgery. Part B, Skull base*  
Daum, R., Grimm, D., Yong, M., Hosseinzadeh, F., Lee, C. K., Fernandez-Miranda, J. C., Nayak, J. V., Patel, Z. M., Hwang, P. H., Chang, M. T.  
2025; 86 (6): e2-e7
- **Proton Beam vs Intensity-Modulated Radiotherapy in Olfactory Neuroblastoma.** *JAMA otolaryngology-- head & neck surgery*  
Tang, A., Adida, S., Donohue, J., Olson, B., Krippaehne, E., Roozdar, P., Goetschel, K., Gago, G., Almeida, J. P., Champagne, P. O., Fernandez-Miranda, J. C., Gardner, P., Hwang, et al  
2025
- **The Influence of Nasal Cavity Dimensions on Frequency of Treatment for Rhinitis Symptoms.** *International forum of allergy & rhinology*  
Levi, L., Mohan, V., Ma, Y., Meliadis, C., Gopi, P., Nayak, J. V., Lin, B., Hwang, P. H., Johnson, J., Nadeau, K., Blaiss, M., Ray, T. S.  
2025
- **Endoscopic Endonasal Supratotal Resection of a Pediatric Clival Chordoma With Intradural Extension and Brainstem Compression.** *Operative neurosurgery (Hagerstown, Md.)*  
Alvarez, A. S., Palejwala, A., Nayak, J., Maher, C., Fernandez-Miranda, J. C.  
2025
- **Does Debridement of Intracranial Disease in Acute Invasive Fungal Sinusitis Improve Survival?** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*  
Huang, A. E., Lee, C. K., Nayak, J. V., Hwang, P. H., Patel, Z. M., Fernandez-Miranda, J. C., Chang, M. T.  
2025
- **Utilizing a publicly accessible automated machine learning platform to enable diagnosis before tumor surgery.** *Communications medicine*  
Hosseinzadeh, F., Liu, G., Tsai, E., Mahmoudi, A., Yang, A., Kim, D., Fieux, M., Levi, L., Abdul-Hadi, S., Adappa, N. D., Alt, J. A., Altartoor, K. A., Bany, et al  
2025; 5 (1): 419
- **Functionality of Pituitary Tumors Impacts Sinonasal Quality of Life Before and After Endoscopic Surgery.** *The Laryngoscope*  
Wongworawut, Y., Hwang, P. H., Nayak, J. V., Dodd, R., Fernandez-Miranda, J. C., Patel, Z. M.  
2025
- **Multi-scaled transcriptomics of chronically inflamed nasal epithelium reveals immune-epithelial dynamics and tissue remodeling in nasal polyp formation.** *Immunity*  
Liao, G., Nakayama, T., Zhu, B., Lee, I. T., Yeung, J., Yeo, Y. Y., Chang, Y., Wang, C., Liao, S. C., Nkosi, D., Renteria, A., Bravo, D. T., Overdevest, et al  
2025
- **Role of somatostatin receptor 2 (SSTR2) in pituitary adenomas.** *Clinical and translational medicine*  
Power, Y., Liu, J., Rehman, U., Kjerimi, A., Scharfetter, V., Counsell, N., Starup-Hansen, J., Newall, N., Lund, V. J., Mohyeldin, A., Fernandez-Miranda, J. C., Lavezo, J., Patel, et al  
2025; 15 (8): e70435
- **Patency of the Cavernous Sinus After Medial Wall Resection: An Observational Study** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*

- Renteria, A. E., Fieux, M., Castro, B., Levi, L., Hung, L., Azevedo, A., Lee, C. K., Chang, M. T., Hwang, P. H., Nayak, J., Fischbein, N., Fernandez-Miranda, J., Patel, et al  
2025
- **The Development and Validation of Novel 3-Dimensional Models for Simulation Training in Sinonasal and Skull Base Surgery.** *The Annals of otology, rhinology, and laryngology*  
Rehman, U., Okhovat, S., Woods, R., London, N. R., Verillaud, B., von Buchwald, C., Gallia, G. L., Omay, S. B., Bennett, W., Abhinav, K., Choby, G., Nayak, J. V., Leong, et al  
2025: 34894251340879
  - **Abridging the 22-Item Sino-Nasal Outcome Test (SNOT-22) in People With Cystic Fibrosis: Limiting Survey Burden.** *International forum of allergy & rhinology*  
Chen, H., Fischer, J. L., Tibbe, T. D., Sedaghat, A. R., Han, E. J., Mace, J. C., Alt, J. A., Bodner, T. E., Chowdhury, N. I., Gao, Y. A., Hwang, P. H., Khanwalkar, A., Kimple, et al  
2025: e23591
  - **Olfaction, Eating Preference, and Quality of Life in Cystic Fibrosis Chronic Rhinosinusitis.** *The Laryngoscope*  
Liu, C. M., Fischer, J. L., Lee, M. J., Mace, J. C., Kimple, A. J., Markarian, K., Alt, J. A., Bodner, T. E., Chowdhury, N. I., Chung, S. Y., Eshaghian, P. H., Gao, Y. A., Getz, et al  
2025
  - **Clival fibrous dysplasia in which short interval disease progression posed a diagnostic challenge in a skeletally mature patient: a case report.** *Journal of medical case reports*  
Tinnut, S., Pham, N., Nayak, J., Fernandez-Miranda, J. C., Vogel, H., Fischbein, N.  
2025; 19 (1): 83
  - **Ipsilateral Nasoseptal Flaps in a Transpterygoid Approach: Technical Pearls and Reconstruction Outcomes.** *Journal of neurological surgery. Part B, Skull base*  
Chang, M. T., Grimm, D., Asmaro, K., Yong, M., Low, C., Lee, C. K., Nayak, J. V., Hwang, P. H., Fernandez-Miranda, J. C., Patel, Z. M.  
2025; 86 (1): 76-81
  - **Complications of Endonasal Odontoidectomy in Pediatric versus Adult Populations: A Systematic Review and Meta-Analysis.** *Journal of neurological surgery. Part B, Skull base*  
Kosaraju, N., Lee, C. K., Qian, Z. J., Fernandez-Miranda, J. C., Nayak, J. V., Chang, M. T.  
2025; 86 (1): 82-91
  - **Durable reconstitution of sinonasal epithelium by transplant of CFTR gene corrected airway stem cells.** *bioRxiv : the preprint server for biology*  
Bravo, D. T., Vaidyanathan, S., Baker, J., Sinha, V., Tsai, E., Roozdar, P., Kong, W. W., Atkinson, P. J., Patel, Z. M., Hwang, P. H., Rao, V. K., Negrin, R. S., Wine, et al  
2025
  - **Added Sinonasal Morbidity of Transpterygoid Approach versus Transsphenoidal Approach: A Case-Controlled Analysis** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*  
Saroya, J., Huang, A. E., Hooseinzadeh, F., Lee, C. K., Fernandez-Miranda, J., Hwang, P. H., Patel, Z. M., Nayak, J. V., Chang, M. T.  
2025
  - **Unilateral Versus Bilateral Endoscopic Resection of Olfactory Neuroblastoma: Pooled Analysis From Prospective and Retrospective Multicenter Data.** *International forum of allergy & rhinology*  
Abiri, A., Nguyen, T. V., Chen, H., Krippaehne, E., Lerner, D. K., Rahman, A. S., Roozdar, P., Rosvall, B. R., Sabbaj, M., Workman, A. D., Wu, S., Adappa, N. D., Beswick, et al  
2025
  - **Machine learning of endoscopy images to identify, classify, and segment sinonasal masses.** *International forum of allergy & rhinology*  
Levi, L., Ye, K., Fieux, M., Renteria, A., Lin, S., Xing, L., Ayoub, N. F., Patel, Z. M., Nayak, J. V., Hwang, P. H., Chang, M. T.  
2025
  - **Comparing Efficacy of Steroid Irrigation + Steroid-eluting Sinus Stent Versus Steroid Irrigation Alone for Maintaining Frontal Sinus Patency After Sinus Surgery: A Randomized Controlled Trial.** *International forum of allergy & rhinology*  
Fieux, M., Noel, J., Roozdar, P., Neves, C. A., Yan, C. H., Tyler, M., Rathor, A., Chang, M. T., Nayak, J. V., Hwang, P. H., Patel, Z. M.  
2025

- **Utilization of ChatGPT for Rhinology Patient Education: Limitations in a Surgical Sub-Specialty.** *OTO open*  
Huang, A. E., Chang, M. T., Khanwalkar, A., Yan, C. H., Phillips, K. M., Yong, M. J., Nayak, J. V., Hwang, P. H., Patel, Z. M.  
2025; 9 (1): e70065
- **Correlation of the Sinonasal Outcome Test-22 With the University of Washington Quality of Life in Assessing Quality of Life in Sinonasal Malignancy Utilizing a Multicenter Prospective Observational Cohort Registry.** *International forum of allergy & rhinology*  
Fleseriu, C. M., Wang, E. W., Beswick, D. M., Maoz, S. L., Hwang, P. H., Kuan, E. C., Adappa, N. D., Geltzeiler, M., Abuzeid, W. M., Pinheiro-Neto, C. D., Getz, A. E., Humphries, I. M., Le, et al  
2025
- **Posterior nasal nerve surgical neurectomy versus ablation for chronic rhinitis.** *American journal of otolaryngology*  
Maddineni, S., Hwang, P. H., Patel, Z. M., Nayak, J. V., Chang, M. T.  
2024; 46 (1): 104553
- **Pathologic dural invasion is associated with regional recurrence in olfactory neuroblastoma: A multi-institutional study.** *International forum of allergy & rhinology*  
Tang, A., Taori, S., Fung, N., Almeida, J. P., Champagne, P. O., Fernandez-Miranda, J. C., Gardner, P., Hwang, P. H., Nayak, J. V., Patel, C., Patel, Z. M., Celda, M. P., Pinheiro-Neto, et al  
2024
- **Using Indocyanine Green Fluorescence Angiography to Evaluate the Impact of Surgical and Patient Factors on Posterior Septal Artery Perfusion in Endoscopic Skull Base Surgery** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*  
Daum, R., Grimm, D., Yong, M., Hosseinzadeh, F., Lee, C. K., Fernandez-Miranda, J. C., Nayak, J., Patel, Z. M., Hwang, P. H., Chang, M. T.  
2024
- **Stepwise Empty Nose Syndrome Evaluation (SENSE) test-A modified cotton test for reduced bias in office diagnosis of empty nose syndrome.** *International forum of allergy & rhinology*  
Levi, L., Yang, A., Tsai, E. F., Ma, Y., Ibrahim, N., Dholakia, S. S., Rao, V. K., Renteria, A., Cao, X., Chang, M. T., Nayak, J. V.  
2024
- **Comparative analysis of traditional machine learning and automated machine learning: advancing inverted papilloma versus associated squamous cell carcinoma diagnosis.** *International forum of allergy & rhinology*  
Hosseinzadeh, F., Mohammadi, S. S., Palmer, J. N., Kohanski, M. A., Adappa, N. D., Chang, M. T., Hwang, P. H., Nayak, J. V., Patel, Z. M.  
2024
- **Impact of sociodemographic status and sex on chronic rhinosinusitis and olfaction in people with cystic fibrosis.** *International forum of allergy & rhinology*  
Han, E. J., Liu, C. M., Fischer, J. L., Mace, J. C., Markarian, K., Alt, J. A., Bodner, T. E., Chowdhury, N. I., Eshaghian, P. H., Gao, Y. A., Getz, A. E., Hwang, P. H., Khanwalkar, et al  
2024
- **University of Washington Quality of Life subdomain outcomes after treatment of sinonasal malignancy: A prospective, multicenter study.** *International forum of allergy & rhinology*  
Maoz, S. L., Golzar, A., Choby, G., Hwang, P. H., Wang, E. W., Kuan, E. C., Adappa, N. D., Geltzeiler, M., Getz, A. E., Humphreys, I. M., Le, C. H., Pinheiro-Neto, C. D., Fischer, et al  
2024
- **The Utility of a "Second-Look" Debridement Following Endonasal Skull Base Surgery in the Pediatric Population.** *Journal of neurological surgery. Part B, Skull base*  
Chang, M. T., Huang, A. E., Quon, J. L., Fernandez-Miranda, J. C., Wen, C. Z., Eide, J. G., Kshirsagar, R. S., Qian, Z. J., Nayak, J. V., Hwang, P. H., Adappa, N. D., Patel, Z. M.  
2024; 85 (3): 313-317
- **Delayed orbital floor implant complications: Case report and review of the literature.** *American journal of ophthalmology case reports*  
Soetikno, B., Losorelli, S., Charoenkijakorn, C., Nayak, J. V., Homer, N. A.  
2024; 34: 102047
- **Predictors of Sinonasal Improvement After Highly Effective Modulator Therapy in Adults with Cystic Fibrosis.** *The Laryngoscope*  
Beswick, D. M., Liu, C. M., Overdeest, J. B., Zemke, A., Khatiwada, A., Gudis, D. A., Miller, J. E., Kimple, A., Tervo, J. P., DiMango, E., Goralski, J. L., Keating, C., Senior, et al  
2024

- **Complications of Endonasal Odontoidectomy in Pediatric versus Adult Populations: A Systematic Review and Meta-Analysis** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*  
Kosaraju, N., Lee, C. K., Qian, Z., Fernandez-Miranda, J. C., Nayak, J. V., Chang, M. T.  
2024
- **SNOT-22 subdomain outcomes following treatment for sinonasal malignancy: A prospective, multicenter study.** *International forum of allergy & rhinology*  
Grimm, D. R., Beswick, D. M., Maoz, S. L., Wang, E. W., Choby, G. W., Kuan, E. C., Chan, E. P., Adappa, N. D., Getzeiler, M., Getz, A. E., Humphreys, I. M., Le, C. H., Abuzeid, et al  
2024
- **Patient perspectives on chronic rhinosinusitis in cystic fibrosis: Symptom prioritization in the era of highly effective modulator therapy.** *International forum of allergy & rhinology*  
Liu, C. M., Han, E. J., Fischer, J. L., Mace, J. C., Mattos, J. L., Markarian, K., Alt, J. A., Bodner, T. E., Chowdhury, N. I., Eshaghian, P. H., Getz, A. E., Hwang, P. H., Khanwalkar, et al  
2024
- **Impact of dupilumab prescribing on utilization of medical and surgical therapies for chronic rhinosinusitis with nasal polyps.** *International forum of allergy & rhinology*  
Low, C. M., Wang, A. R., Yong, M., Nayak, J., Patel, Z., Hwang, P. H.  
2024
- **Ipsilateral Nasoseptal Flaps in a Transpterygoid Approach: Technical Pearls and Reconstruction Outcomes** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*  
Chang, M. T., Grimm, D., Asmaro, K., Yong, M., Low, C., Lee, C. K., Nayak, J. V., Hwang, P. H., Fernandez-Miranda, J. C., Patel, Z. M.  
2024
- **The Temporoparietal Fascia Flap Transposition Technique for Ventral Skull Base Reconstruction: Anatomic Analysis and Surgical Application.** *Operative neurosurgery (Hagerstown, Md.)*  
Xu, Y., Asmaro, K., Mohyeldin, A., Nunez, M. A., Mao, Y., Cohen-Gadol, A. A., Nayak, J., Fernandez-Miranda, J. C.  
2024
- **Determining the minimal clinically important difference for the questionnaire of olfactory disorders in people with cystic fibrosis and factors associated with improvement after highly effective modulator therapy.** *International forum of allergy & rhinology*  
Miller, J. E., Taylor-Cousar, J. L., Overdeest, J. B., Khatiwada, A., Mace, J. C., Alt, J. A., Bodner, T. E., Chowdhury, N. I., DiMango, E. A., Eshaghian, P. H., Getz, A. E., Gudis, D. A., Han, et al  
2023
- **Surgical Correction of Nasal Obstruction and Its Effect on Eustachian Tube Dysfunction Symptoms.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Daum, R., Grimm, D., Castro Silva, B. R., Huang, A. E., Lee, J. Y., Nayak, J. V., Patel, Z. M., Hwang, P. H., Chang, M. T.  
2023
- **Factors that predict pursuing sinus surgery in the era of highly effective modulator therapy.** *International forum of allergy & rhinology*  
Beswick, D. M., Han, E. J., Mace, J. C., Markarian, K., Alt, J. A., Bodner, T. E., Chowdhury, N. I., Eshaghian, P. H., Getz, A. E., Hwang, P. H., Khanwalkar, A., Kimple, A. J., Lee, et al  
2023
- **The Serpentine Sign: A Reliable Endoscopic and Radiographic Finding in Empty Nose Syndrome.** *The Laryngoscope*  
Dholakia, S. S., Grimm, D., Daum, R., Bravo, D. T., Salvi, N., Zarabanda, D., Overdeest, J. B., Thamboo, A., Nakayama, T., Nayak, J. V.  
2023
- **Eustachian tube dysfunction symptoms after endonasal skull base surgery.** *International forum of allergy & rhinology*  
Grimm, D., Daum, R., Castro Silva, B. R., Lee, C. K., Fernandez-Miranda, J. C., Nayak, J. V., Patel, Z. M., Hwang, P. H., Chang, M. T.  
2023
- **Development of a shortwave infrared sinuscope for the detection of cerebrospinal fluid leaks.** *Journal of biomedical optics*  
Klein, T. W., Yang, S., Tusty, M. A., Nayak, J. V., Chang, M. T., Bruns, O. T., Bischof, T. S., Valdez, T. A.  
2023; 28 (9): 094803
- **Predictive factors for decreased baseline quality of life in patients with sinonasal malignancies.** *International forum of allergy & rhinology*

- Fleseriu, C. M., Beswick, D. M., Maoz, S. L., Hwang, P. H., Choby, G., Kuan, E. C., Chan, E. P., Adappa, N. D., Geltzeiler, M., Getz, A. E., Humphries, I. M., Le, C. H., Abuzeid, et al  
2023
- **Multicenter Survival Analysis and Application of an Olfactory Neuroblastoma Staging Modification Incorporating Hyams Grade.** *JAMA otolaryngology-- head & neck surgery*  
Choby, G., Geltzeiler, M., Almeida, J. P., Champagne, P. O., Chan, E., Ciporen, J., Chaskes, M. B., Fernandez-Miranda, J., Gardner, P., Hwang, P., Ji, K. S., Kalyvas, A., Kong, et al  
2023
  - **International Multicenter Study of Clinical Outcomes of Sinonasal Melanoma Shows Survival Benefit for Patients Treated with Immune Checkpoint Inhibitors and Potential Improvements to the Current TNM Staging System.** *Journal of neurological surgery. Part B, Skull base*  
Lechner, M., Takahashi, Y., Turri-Zanoni, M., Ferrari, M., Liu, J., Counsell, N., Mattavelli, D., Rampinelli, V., Vermi, W., Lombardi, D., Saade, R., Park, K. W., Schartinger, et al  
2023; 84 (4): 307-319
  - **Incidence of hypocortisolism with long-term budesonide irrigations for chronic rhinosinusitis.** *International forum of allergy & rhinology*  
Silva, B. R., Tyler, M. A., Ma, Y., Wang, J., Nayak, J. V., Patel, Z. M., Hwang, P. H.  
2023
  - **Long-term quality of life after treatment in sinonasal malignancy: A prospective, multi-center study.** *International forum of allergy & rhinology*  
Maoz, S. L., Wang, E. W., Hwang, P. H., Choby, G., Kuan, E. C., Fleseriu, C. M., Chan, E. P., Adappa, N. D., Geltzeiler, M., Getz, A. E., Humphreys, I. M., Le, C. H., Abuzeid, et al  
2023
  - **The Utility of a "Second-Look" Debridement Following Endonasal Skull Base Surgery in the Pediatric Population** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*  
Chang, M. T., Huang, A. E., Quon, J. L., Fernandez-Miranda, J. C., Wen, C. Z., Eide, J. G., Kshirsagar, R. S., Qian, Z., Nayak, J. V., Hwang, P. H., Adappa, N. D., Patel, Z. M.  
2023
  - **International consensus statement on allergy and rhinology: Allergic rhinitis - 2023.** *International forum of allergy & rhinology*  
Wise, S. K., Damask, C., Roland, L. T., Ebert, C., Levy, J. M., Lin, S., Luong, A., Rodriguez, K., Sedaghat, A. R., Toskala, E., Villwock, J., Abdullah, B., Akdis, et al  
2023
  - **Radiographic predictors of occult intracranial involvement in olfactory neuroblastoma patients.** *International forum of allergy & rhinology*  
Geltzeiler, M., Choby, G. W., Ji, K. S., Mace, J. C., Almeida, J. P., de Almeida, J., Champagne, P., Chan, E., Ciporen, J. N., Chaskes, M. B., Comell, S., Drozdowski, V., Fernandez-Miranda, et al  
2023
  - **Tranexamic acid does not significantly lower postoperative bleeding after endoscopic sinus and nasal surgery.** *International forum of allergy & rhinology*  
Khanwalkar, A., Chan, E., Roozdar, P., Kim, D., Ma, Y., Hwang, P. H., Nayak, J. V., Patel, Z. M.  
2023
  - **Fluorogenic reporter enables identification of compounds that inhibit SARS-CoV-2.** *Nature microbiology*  
Yang, J., Xiao, Y., Lidsky, P. V., Wu, C., Bonser, L. R., Peng, S., Garcia-Knight, M. A., Tassetto, M., Chung, C., Li, X., Nakayama, T., Lee, I. T., Nayak, et al  
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