

# Stanford

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## Jayakar V. Nayak, MD, PhD

Associate Professor of Otolaryngology - Head & Neck Surgery (Rhinology) and, by courtesy, of Neurosurgery at the Stanford University Medical Center

Otolaryngology - Head & Neck Surgery Divisions

### CLINICAL OFFICES

- **Stanford Dept of Otolaryngology, Head and Neck Surgery**

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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### Bio

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#### CLINICAL FOCUS

- Cancer > Head and Neck Cancer
- Otolaryngology
- Chronic Rhinosinusitis
- Endoscopic Sinus Surgery
- Endoscopic Skullbase Surgery
- Nasal Septum and Turbinate Surgery
- Empty Nose Syndrome
- Epiphora/Excessive Tearing Surgery
- Epistaxis/Nosebleed Disorders and Surgery
- Clivus/Foramen Magnum/Odontoid Surgery
- All Varieties of Rhinologic/Sinus Disorders
- Revision Nasal Airway and Sinus Surgery

#### ACADEMIC APPOINTMENTS

- Associate Professor - Med Center Line, Otolaryngology - Head & Neck Surgery Divisions
- Associate Professor - Med Center Line (By courtesy), Neurosurgery
- Member, Bio-X

#### ADMINISTRATIVE APPOINTMENTS

- 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

- Board Certification: Otolaryngology, American Board of Otolaryngology (2010)
- Fellowship: University of Pennsylvania (2009) PA
- Residency: University of Pittsburgh Medical Center (2008) PA
- Internship: University of Pittsburgh Medical Center (2004) PA
- M.D., Ph.D., University of Pittsburgh School of Medicine , MD - General Medicine PhD - Immunology (2003)
- Medical Education: University of Pittsburgh School of Medicine (2003) PA
- 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>

## 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

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)

## Publications

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### PUBLICATIONS

- **Environmental Triggers Associated With Empty Nose Syndrome Symptoms: A Cross-Sectional Study.** *The Annals of otology, rhinology, and laryngology*  
Manji, J., Patel, V. S., Nayak, J. V., Thamboo, A.  
2019: 3489419833714
- **Use of intranasal submucosal fillers as a transient implant to alter upper airway aerodynamics: implications for the assessment of empty nose syndrome.** *International forum of allergy & rhinology*  
Borchard, N. A., Dholakia, S. S., Yan, C. H., Zarabanda, D., Thamboo, A., Nayak, J. V.  
2019

- **The Horizon Sign and Frontal Bar: Two Topographic Landmarks to Confirm Endoscopic Frontal Sinusotomy.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Walgama, E. S., Thamboo, A., Tangbumrungtham, N., Ayoub, N., Patel, Z. M., Nayak, J. V.  
2019; 194599818825472
- **Microcurrent technology for rapid relief of sinus pain: a randomized, placebo-controlled, double-blinded clinical trial.** *International forum of allergy & rhinology*  
Maul, X. A., Borchard, N. A., Hwang, P. H., Nayak, J. V.  
2019
- **Topical Corticosteroid Pretreatment Mitigates Cellular Damage After Caustic Injury to the Nasal Upper Airway Epithelium.** *American journal of rhinology & allergy*  
Huang, Z., Velasquez, N., Nguyen, A., Ye, T., Le, W., Bravo, D. T., Hwang, P. H., Zhou, B., Nayak, J. V.  
2019; 1945892418823305
- **Imaging predictors for malignant transformation of inverted papilloma.** *The Laryngoscope*  
Yan, C. H., Tong, C. C., Penta, M., Patel, V. S., Palmer, J. N., Adappa, N. D., Nayak, J. V., Hwang, P. H., Patel, Z. M.  
2018
- **Precision medicine: why surgeons deviate from "appropriateness criteria" in the management of chronic rhinosinusitis and effects on outcomes.** *International forum of allergy & rhinology*  
Thamboo, A., Rathor, A., Borchard, N. A., Nayak, J. V., Hwang, P. H., Patel, Z. M.  
2018
- **The "Cross-court Draf IIB" Procedure for Advanced Nasal Septum or Frontal Sinus Pathology and Nasal Septum Pathology** *LARYNGOSCOPE*  
Choby, G., Nayak, J. V.  
2018; 128 (7): 1527–30
- **The functional and psychological burden of empty nose syndrome** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*  
Manji, J., Nayak, J. V., Thamboo, A.  
2018; 8 (6): 707–12
- **Porcine small intestine submucosal grafts improve remucosalization and progenitor cell recruitment to sites of upper airway tissue remodeling.** *International forum of allergy & rhinology*  
Nayak, J. V., Rathor, A., Grayson, J. W., Bravo, D. T., Velasquez, N., Noel, J., Beswick, D. M., Riley, K. O., Patel, Z. M., Cho, D., Dodd, R. L., Thamboo, A., Choby, et al  
2018
- **Comparison of outcomes following culture-directed vs non-culture-directed antibiotics in treatment of acute exacerbations of chronic rhinosinusitis.** *International forum of allergy & rhinology*  
Yan, C. H., Tangbumrungtham, N., Maul, X. A., Ma, Y., Nayak, J. V., Hwang, P. H., Patel, Z. M.  
2018
- **Orbital Apex Syndrome** *NEW ENGLAND JOURNAL OF MEDICINE*  
Borchard, N. A., Nayak, J. V.  
2018; 378 (17): E23
- **Risk Stratification for Postoperative Venous Thromboembolism after Endoscopic Sinus Surgery** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*  
Beswick, D. M., Vaezaefshar, R., Ma, Y., Hwang, P. H., Nayak, J. V., Patel, Z. M.  
2018; 158 (4): 767–73
- **Glycolysis and the Hexosamine Biosynthetic Pathway as Novel Targets for Upper and Lower Airway Inflammation** *ALLERGY ASTHMA & IMMUNOLOGY RESEARCH*  
Kim, Y., Nakayama, T., Nayak, J.  
2018; 10 (1): 6–11
- **Outcomes After Endoscopic Endonasal Resection of Craniopharyngiomas in the Pediatric Population** *WORLD NEUROSURGERY*  
Patel, V. S., Thamboo, A., Quon, J., Nayak, J. V., Hwang, P. H., Edwards, M., Patel, Z. M.  
2017; 108: 6–14

- **Enhanced Irrigant Delivery to the Ethmoid Sinuses Directly Following Ethmoid Punch Sinusotomy** *ANNALS OF OTOLARYNGOLOGY AND LARYNGOLOGY*  
Abuzeid, W. M., Peterson, A. Z., Rathor, A., Xu, J. C., Velasquez, N., Rashan, A. R., Thamboo, A., Nayak, J. V.  
2017; 126 (12): 804–12
- **Evidence for altered levels of IgD in the nasal airway mucosa of patients with chronic rhinosinusitis** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Min, J., Nayak, J. V., Hulse, K. E., Stevens, W. W., Raju, P. A., Huang, J. H., Suh, L. A., Van Roey, G. A., Norton, J. E., Carter, R. G., Price, C. E., Weibman, A. R., Rashan, et al  
2017; 140 (6): 1562–+
- **Wnt Signaling in Chronic Rhinosinusitis with Nasal Polyps** *AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY*  
Boeske, R., Vladar, E. K., Koennecke, M., Huesing, B., Linke, R., Pries, R., Reiling, N., Axelrod, J. D., Nayak, J. V., Wollenberg, B.  
2017; 56 (5): 575-584
- **Defining surgical criteria for empty nose syndrome: Validation of the office-based cotton test and clinical interpretability of the validated Empty Nose Syndrome 6-Item Questionnaire.** *Laryngoscope*  
Thamboo, A., Velasquez, N., Habib, A. R., Zarabanda, D., Paknezhad, H., Nayak, J. V.  
2017
- **Selective expansion of human regulatory T cells in nasal polyps, and not adjacent tissue microenvironments, in individual patients exposed to steroids.** *Clinical immunology*  
Edward, J. A., Sanyal, M., Le, W., Soudry, E., Ramakrishnan, V. R., Bravo, D. T., Nguyen, A. L., Zarabanda, D., Kingdom, T. T., Hwang, P. H., Garrison Fathman, C., Nayak, J. V.  
2017; 179: 66-76
- **Transseptal access with crossing multiple incisions for improved pedicle control and septum preservation: "How I do it"** *AMERICAN JOURNAL OF RHINOLOGY & ALLERGY*  
Omura, K., Asaka, D., Nayak, J. V., Tanaka, Y.  
2017; 31 (2): 139–41
- **Determinants and outcomes of upfront surgery versus medical therapy for chronic rhinosinusitis in cystic fibrosis.** *International forum of allergy & rhinology*  
Ayoub, N., Thamboo, A., Habib, A., Nayak, J. V., Hwang, P. H.  
2017
- **Safe treatment of ethmoid sinusitis utilizing minimally invasive ethmoid punch sinusotomy (EPS) in chronic rhinosinusitis without polyposis (CRSsNP) patients.** *Laryngoscope*  
Velasquez, N., Thamboo, A., Abuzeid, W. M., Nayak, J. V.  
2017
- **Surgical therapy vs continued medical therapy for medically refractory chronic rhinosinusitis: a systematic review and meta-analysis.** *International forum of allergy & rhinology*  
Patel, Z. M., Thamboo, A., Rudmik, L., Nayak, J. V., Smith, T. L., Hwang, P. H.  
2017; 7 (2): 119-127
- **Wnt Signaling in Chronic Rhinosinusitis with Nasal Polyps.** *American journal of respiratory cell and molecular biology*  
Böscke, R., Vladar, E. K., Könnecke, M., Hüsing, B., Linke, R., Pries, R., Reiling, N., Axelrod, J. D., Nayak, J. V., Wollenberg, B.  
2017
- **Endoscopic Resection of Skull Base Teratoma in Klippel-Feil Syndrome through Use of Combined Ultrasonic and Bipolar Diathermy Platforms.** *Case reports in otolaryngology*  
Edward, J. A., Psaltis, A. J., Williams, R. A., Charville, G. W., Dodd, R. L., Nayak, J. V.  
2017; 2017: 6384586-?
- **Nose blowing after endoscopic sinus surgery does not adversely affect outcomes.** *The Laryngoscope*  
Ayoub, N., Chitsuthipakorn, W., Nayak, J. V., Patel, Z. M., Hwang, P. H.  
2017
- **Barosinusitis: Comprehensive review and proposed new classification system.** *Allergy & rhinology (Providence, R.I.)*  
Vaezaefshar, R., Psaltis, A. J., Rao, V. K., Zarabanda, D., Patel, Z. M., Nayak, J. V.

2017; 8 (3): 109–17

- **Equivalence in outcomes between Draf 2B vs Draf 3 frontal sinusotomy for refractory chronic frontal rhinosinusitis.** *International forum of allergy & rhinology*  
Patel, V. S., Choby, G., Shih, L. C., Patel, Z. M., Nayak, J. V., Hwang, P. H.  
2017
- **The prevalence of Eustachian tube dysfunction symptoms in patients with chronic rhinosinusitis.** *International forum of allergy & rhinology*  
Tangbumrungham, N., Patel, V. S., Thamboo, A., Patel, Z. M., Nayak, J. V., Ma, Y., Choby, G., Hwang, P. H.  
2017
- **The Empty Nose Syndrome 6-Item Questionnaire (ENS6Q): a validated 6-item questionnaire as a diagnostic aid for empty nose syndrome patients.** *International forum of allergy & rhinology*  
Velasquez, N., Thamboo, A., Habib, A. R., Huang, Z., Nayak, J. V.  
2017; 7 (1): 64-71
- **Peripheral blood T-helper cells and eosinophil populations in patients with atopic and nonatopic chronic rhinosinusitis** *AMERICAN JOURNAL OF RHINOLOGY & ALLERGY*  
Huang, Z., Nayak, J. V., Sun, Y., Huang, Q., Zhou, B.  
2017; 31 (1): E8-E12
- **Distinguishing computed tomography findings in patients with empty nose syndrome.** *International forum of allergy & rhinology*  
Thamboo, A., Velasquez, N., Ayoub, N., Nayak, J. V.  
2016; 6 (10): 1075-1082
- **Airway epithelial homeostasis and planar cell polarity signaling depend on multiciliated cell differentiation.** *JCI insight*  
Vladar, E. K., Nayak, J. V., Milla, C. E., Axelrod, J. D.  
2016; 1 (13)
- **Characterization of immunoglobulin E plasma cells that are elevated in the upper airway mucosa of nonatopic patients with chronic rhinosinusitis without nasal polyps** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*  
Rashan, A. R., Goshn, E., Peterson, A., Yang, Y., Phillips, M., Sahaf, B., Herzenberg, L., Nayak, J. V.  
2016; 6 (4): 378-384
- **Use of Pedicled Nasoseptal Flap for Pathologic Oroantral Fistula Closure.** *Journal of oral and maxillofacial surgery*  
Noel, J. E., Teo, N. W., Divi, V., Nayak, J. V.  
2016; 74 (4): 704 e1-6
- **The nasal vestibular body: anatomy, clinical features, and treatment considerations** *EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY*  
Locketz, G. D., Teo, N. W., Walgama, E., Humphreys, I. M., Nayak, J. V.  
2016; 273 (3): 777-781
- **International Consensus Statement on Allergy and Rhinology: Rhinosinusitis** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*  
Orlandi, R. R., Kingdom, T. T., Hwang, P. H., Smith, T. L., Alt, J. A., Baroody, F. M., Batra, P. S., Bernal-Sprekelsen, M., Bhattacharyya, N., Chandra, R. K., Chiu, A., Citardi, M. J., Cohen, et al  
2016; 6: S22-S209
- **Inferior turbinate reconstruction using porcine small intestine submucosal xenograft demonstrates improved quality of life outcomes in patients with empty nose syndrome** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*  
Velasquez, N., Huang, Z., Humphreys, I. M., Nayak, J. V.  
2015; 5 (11): 1077-1081
- **Medical therapy vs surgery for recurrent acute rhinosinusitis.** *International forum of allergy & rhinology*  
Costa, M. L., Psaltis, A. J., Nayak, J. V., Hwang, P. H.  
2015; 5 (8): 667-673
- **Endoscopic Transnasal Approach for Urgent Decompression of the Craniocervical Junction in Acute Skull Base Osteomyelitis.** *Journal of neurological surgery reports*  
Burns, T. C., Mindea, S. A., Pendharkar, A. V., Lapustea, N. B., Irime, I., Nayak, J. V.  
2015; 76 (1): e37-42

- **Intraocular Pressure Changes in Emergent Surgical Decompression of Orbital Compartment Syndrome** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*  
Mohammadi, F., Rashan, A., Psaltis, A., Janisewicz, A., Li, P., El-Sawy, T., Nayak, J. V.  
2015; 141 (6): 562-565
- **Clinical predictors of neo-osteogenesis in patients with chronic rhinosinusitis.** *International forum of allergy & rhinology*  
Huang, Z., Hajjij, A., Li, G., Nayak, J. V., Zhou, B., Hwang, P. H.  
2015; 5 (4): 303-309
- **Consistent ipsilateral development of the posterior extension of the quadrangular cartilage and bony spur formation in nasal septal deviation.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Saedi, B., Rashan, A. R., Lipan, M., Nayak, J. V., Most, S. P.  
2015; 152 (3): 444-448
- **Inverted Papilloma of the Sphenoid Sinus: Risk Factors for Disease Recurrence** *LARYNGOSCOPE*  
Suh, J. D., Ramakrishnan, V. R., Thompson, C. F., Woodworth, B. A., Adappa, N. D., Nayak, J., Lee, J. M., Lee, J. T., Chiu, A. G., Palmer, J. N.  
2015; 125 (3): 544-548
- **Complications associated with the pedicled nasoseptal flap for skull base reconstruction.** *Laryngoscope*  
Soudry, E., Psaltis, A. J., Lee, K. H., Vaezafshar, R., Nayak, J. V., Hwang, P. H.  
2015; 125 (1): 80-85
- **Long-term outcomes of endoscopic maxillary mega-antrostomy for refractory chronic maxillary sinusitis.** *International forum of allergy & rhinology*  
Costa, M. L., Psaltis, A. J., Nayak, J. V., Hwang, P. H.  
2015; 5 (1): 60-65
- **The Combined Subtemporal-Transfacial Approach for the Resection of Juvenile Nasopharyngeal Angiofibromas With Intracranial Extension** *OTOLOGY & NEUROTOLOGY*  
Kumar, A. R., Nayak, J. V., Janisewicz, A. M., Li, G., Oghalai, J. S.  
2015; 36 (1): 151-155
- **Air pollutants cause release of hydrogen peroxide and interleukin-8 in a human primary nasal tissue culture model.** *International forum of allergy & rhinology*  
Cho, D., Le, W., Bravo, D. T., Hwang, P. H., Illek, B., Fischer, H., Nayak, J. V.  
2014; 4 (12): 966-971
- **A case of stereotactic radiation in skull base solitary fibrous tumor: more harm than good?** *Journal of neurological surgery reports*  
Santa Maria, P. L., Abuzeid, W. M., Nayak, J. V., Chang, S. D., Blevins, N. H.  
2014; 75 (2): e214-6
- **Long-term Sinonasal Outcomes of Aspirin Desensitization in Aspirin Exacerbated Respiratory Disease** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*  
Cho, K., Soudry, E., Psaltis, A. J., Nadeau, K. C., McGhee, S. A., Nayak, J. V., Hwang, P. H.  
2014; 151 (4): 575-581
- **Anatomic relationship of nasolacrimal duct and major lateral wall landmarks: cadaveric study with surgical implications** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*  
Ali, M. J., Nayak, J. V., Vaezafshar, R., Li, G., Psaltis, A. J.  
2014; 4 (8): 684-688
- **Outpatient endoscopic sinus surgery in cystic fibrosis patients: predictive factors for admission.** *International forum of allergy & rhinology*  
Soudry, E., Mohabir, P. K., Miglani, A., Chen, J., Nayak, J. V., Hwang, P. H.  
2014; 4 (5): 416-421
- **Endoscopic reconstruction of surgically created skull base defects: a systematic review.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Soudry, E., Turner, J. H., Nayak, J. V., Hwang, P. H.  
2014; 150 (5): 730-738
- **Experience with intraoperative navigation and imaging during endoscopic transnasal spinal approaches to the foramen magnum and odontoid.** *Neurosurgical focus*  
Choudhri, O., Mindea, S. A., Feroze, A., Soudry, E., Chang, S. D., Nayak, J. V.

2014; 36 (3): E4-?

- **Human ethmoid sinus mucosa: a promising novel tissue source of mesenchymal progenitor cells** *STEM CELL RESEARCH & THERAPY*  
Cho, K., Park, H., Roh, H., Bravo, D. T., Hwang, P. H., Nayak, J. V.  
2014; 5
- **Systemic prednisone administration selectively alters granulocyte subsets in nasal polyps from aspirin-exacerbated respiratory disease and chronic rhinosinusitis patients.** *International forum of allergy & rhinology*  
Edward, J. A., Sanyal, M., Ramakrishnan, V. R., Le, W., Nguyen, A. L., Kingdom, T. T., Hwang, P. H., Nayak, J. V.  
2013; 3 (11): 866-876
- **Characterization of human upper airway epithelial progenitors.** *International forum of allergy & rhinology*  
Bravo, D. T., Soudry, E., Edward, J. A., Le, W., Nguyen, A. L., Hwang, P. H., Sanyal, M., Nayak, J. V.  
2013; 3 (10): 841-847
- **Expression of dual oxidases and secreted cytokines in chronic rhinosinusitis.** *International forum of allergy & rhinology*  
Cho, D., Nayak, J. V., Bravo, D. T., Le, W., Nguyen, A., Edward, J. A., Hwang, P. H., Illek, B., Fischer, H.  
2013; 3 (5): 376-383
- **Survival outcomes in acute invasive fungal sinusitis: A systematic review and quantitative synthesis of published evidence.** *Laryngoscope*  
Turner, J. H., Soudry, E., Nayak, J. V., Hwang, P. H.  
2013; 123 (5): 1112-1118
- **Trends in incidence and susceptibility among methicillin-resistant Staphylococcus aureus isolated from intranasal cultures associated with rhinosinusitis.** *American journal of rhinology & allergy*  
Rujanavej, V., Soudry, E., Banaei, N., Baron, E. J., Hwang, P. H., Nayak, J. V.  
2013; 27 (2): 134-137
- **Low-frequency pulsed ultrasound in the nasal cavity and paranasal sinuses: a feasibility and distribution study** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*  
Patel, Z. M., Hwang, P. H., Chernomorsky, A., Bravo, D. T., Nguyen, B. L., Nesterova, K., Nayak, J. V.  
2012; 2 (4): 303-308
- **Nationwide incidence of major complications in endoscopic sinus surgery** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*  
Ramakrishnan, V. R., Kingdom, T. T., Nayak, J. V., Hwang, P. H., Orlandi, R. R.  
2012; 2 (1): 34-39
- **Sinonasal seromucinous hamartomas: Clinical features and diagnostic dilemma** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*  
Figures, M. R., Nayak, J. V., Gable, C., Chiu, A. G.  
2010; 143 (1): 165-166
- **Assessing the risk of irrigation bottle and fluid contamination after endoscopic sinus surgery** *55th Annual Meeting of the American-Rhinologic-Society*  
Lee, J. M., Nayak, J. V., Doghramji, L. L., Welch, K. C., Chiu, A. G.  
OCEAN SIDE PUBLICATIONS INC.2010: 197-99
- **Biofilms in chronic rhinosinusitis: A review** *AMERICAN JOURNAL OF RHINOLOGY & ALLERGY*  
Cohen, M., Kofonow, J., Nayak, J. V., Palmer, J. N., Chiu, A. G., Leid, J. G., Cohen, N. A.  
2009; 23 (3): 255-260
- **Head and neck epithelioid sarcoma in a child: Diagnostic dilemma and anterolateral thigh free flap reconstruction** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*  
Nayak, J. V., Teot, L. A., Vyas, Y., Snyderman, C. H., Toh, E. H., Deleyiannis, F. W.  
2008; 72 (5): 719-724
- **Head and Neck Cancer Immunotherapy: Clinical Evaluation** *CURRENT ONCOLOGY REPORTS*  
Leibowitz, M. S., Nayak, J. V., Ferris, R. L.  
2008; 10 (2): 162-169
- **Deferring planned neck dissection following chemoradiation for stage IV head and neck cancer: The utility of PET-CT** *110th Annual Meeting of the Triological-Society*  
Nayak, J. V., Walvekar, R. R., Andrade, R. S., Daamen, N., Lai, S. Y., Argiris, A., Smith, R. P., Heron, D. E., Ferris, R. L., Johnson, J. T., Branstetter, B. F.

WILEY-BLACKWELL.2007: 2129-34

- **Experience with the expanded endonasal approach for resection of the odontoid process in rheumatoid disease** *52nd Annual Meeting of the American-Rhinologic-Society*  
Nayak, J. V., Gardner, P. A., Vescan, A. D., Carrau, R. L., Kassam, A. B., Snyderman, C. H.  
OCEAN SIDE PUBLICATIONS INC.2007: 601-6
- **Phagocytosis induces lysosome remodeling and regulated presentation of particulate antigens by activated dendritic cells** *JOURNAL OF IMMUNOLOGY*  
Nayak, J. V., Hokey, D. A., Larregina, A., He, Y., Salter, R. D., Watkins, S. C., Falo, L. D.  
2006; 177 (12): 8493-8503
- **Role of antigen-processing machinery in the in vitro resistance of squamous cell carcinoma of the head and neck cells to recognition by CTL** *JOURNAL OF IMMUNOLOGY*  
Lopez-Albaitero, A., Nayak, J. V., Ogino, T., Machandia, A., Gooding, W., DeLeo, A. B., Ferrone, S., Ferris, R. L.  
2006; 176 (6): 3402-3409
- **Current use of F-18-fluorodeoxyglucose positron emission tomography and combined positron emission tomography and computed tomography in squamous cell carcinoma of the head and neck** *LARYNGOSCOPE*  
Zimmer, L. A., Branstetter, B. F., Nayak, J. V., Johnson, J. T.  
2005; 115 (11): 2029-2034
- **Diagnostic utility of positron emission tomography-computed tomography for predicting malignancy in cystic neck masses in adults** *LARYNGOSCOPE*  
Ferris, R. L., Branstetter, B. F., Nayak, J. V.  
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