

Stanford



Michael Chang, MD

Assistant Professor of Otolaryngology - Head & Neck surgery (OHNS)
Otolaryngology (Head and Neck Surgery)

CLINICAL OFFICE (PRIMARY)

- **Otolaryngology Head and Neck Surgery**

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Bio

BIO

Dr. Chang is a board-certified, Stanford fellowship-trained otolaryngologist providing care at Stanford Health Care's Sinus Center. He is also an assistant professor in the Department of Otolaryngology – Head & Neck Surgery at Stanford University School of Medicine.

He specializes in the diagnosis and surgical treatment of nasal, sinus, and skull base disorders. Dr. Chang is also interested in the use of online digital media for ear, nose, and throat (ENT)-related educational content. He is the rhinology host for Headmirror's ENT in a Nutshell podcast and served as education consulting for the rhinology section of DosedDaily.

Dr. Chang's research interests include new endoscopic imaging technologies, machine learning applications in healthcare, and outcomes for various medical and surgical treatments for sinus and skull base disorders.

Dr. Chang has published in several high-impact journals, such as Clinical Cancer Research, JAMA Otolaryngology – Head & Neck Surgery, and International Forum of Allergy & Rhinology. He serves as a journal peer reviewer for Annals of Otolaryngology, Rhinology & Laryngology; The Laryngoscope; World Journal of Otorhinolaryngology – Head & Neck Surgery; and Ear, Nose & Throat Journal.

He is a member of the American Academy of Otolaryngology–Head and Neck Surgery, the North American Skull Base Society, and the American Rhinologic Society. He serves on the American Rhinologic Society's Patient Advocacy Committee.

CLINICAL FOCUS

- Otolaryngology
- Rhinology
- Allergy
- Skull Base

ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Otolaryngology (Head and Neck Surgery)

PROFESSIONAL EDUCATION

- Board Certification: Otolaryngology, American Board of Otolaryngology (2022)
- Internship: Stanford University Dept of General Surgery (2017) CA
- Residency: Stanford University Otolaryngology Residency (2021) CA
- Medical Education: Yale University Office of the Registrar (2016) CT
- M.D., Yale University School of Medicine (2016)
- B.S., Brown University (2011)

Research & Scholarship

CLINICAL TRIALS

- Perioperative Oral Steroids for Chronic Rhinosinusitis Without Polyps (CRSsNP), Not Recruiting

Publications

PUBLICATIONS

- **Oral Corticosteroids Following Endoscopic Sinus Surgery for Chronic Rhinosinusitis Without Nasal Polyposis: A Randomized Clinical Trial.** *JAMA otolaryngology-- head & neck surgery*
Chang, M. T., Noel, J. n., Ayoub, N. F., Qian, Z. J., Dholakia, S. n., Nayak, J. V., Patel, Z. M., Hwang, P. H.
2021
- **Hemodynamic changes in patients undergoing office-based sinus procedures under local anesthesia.** *International forum of allergy & rhinology*
Chang, M. T., Jitaroon, K. n., Nguyen, T. n., Yan, C. H., Overvest, J. B., Nayak, J. V., Hwang, P. H., Patel, Z. M.
2020; 10 (1): 114–20
- **The Effect of Endoscopic Sinus Surgery on Eustachian Tube Dysfunction Symptoms.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Chang, M. T., Hosseini, D. K., Song, S. H., Nayak, J. V., Patel, Z. M., Lee, J. Y., Hwang, P. H.
2020: 194599820917396
- **Update on long-term outcomes for chronic rhinosinusitis in cystic fibrosis.** *Current opinion in otolaryngology & head and neck surgery*
Chang, M. T., Patel, Z. M.
2019
- **Cryosurgical ablation for treatment of rhinitis: A prospective multicenter study.** *The Laryngoscope*
Chang, M. T., Song, S. n., Hwang, P. H.
2019
- **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
- **Environmental Risk Factors for Pediatric Epistaxis vary by Climate Zone.** *The Laryngoscope*
Wei, E. X., Green, A., Chang, M. T., Hwang, P. H., Sidell, D. R., Qian, Z. J.
2023
- **In Response to Social Media Utilization in Otolaryngology: A Scoping Review.** *The Laryngoscope*
Huang, A. E., Chang, M. T.
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
- **Social Media Utilization in Otolaryngology: A Scoping Review.** *The Laryngoscope*
Huang, A. E., Chan, E. P., Stave, C. M., Patel, Z. M., Hwang, P. H., Chang, M. T.
2023
- **Effect of dupilumab on Eustachian tube dysfunction in patients with chronic rhinosinusitis with nasal polyposis.** *International forum of allergy & rhinology*
Chang, M., Roozdar, P., Lin, Y. T., Lee, J. Y., Nayak, J. V., Patel, Z. M., Hwang, P. H.
2022
- **Novel Therapies in Olfactory Disorders** *CURRENT OTORHINOLARYNGOLOGY REPORTS*
Chang, M. T., Patel, Z. M.
2022: 1-6
- **In Response to Inferior Meatus Augmentation Procedure (IMAP) for Treatment of Empty Nose Syndrome.** *The Laryngoscope*
Chang, M. T., Nayak, J. V.
2022
- **Inferior Meatus Augmentation Procedure (IMAP) for Treatment of Empty Nose Syndrome.** *The Laryngoscope*
Chang, M. T., Bartho, M., Kim, D., Tsai, E. F., Yang, A., Dholakia, S. S., Khanwalkar, A., Rao, V. K., Thamboo, A., Lechner, M., Nayak, J. V.
1800
- **The Nasal Vestibular Body and Its Role in Nasal Obstruction** *CURRENT OTORHINOLARYNGOLOGY REPORTS*
Yang, A., Kim, D., Tsai, E., Chang, M. T., Low, C. M., Ibrahim, N.
2022
- **Implementation of a Standardized Perioperative Pain Management Protocol to Reduce Opioid Prescriptions in Otolaryngologic Surgery.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Chang, M. T., Lalakea, M. L., Shepard, K., Saste, M., Munoz, A., Amoils, M.
1800: 1945998211071116
- **Venous thromboembolism rates and risk factors following endoscopic skull base surgery.** *International forum of allergy & rhinology*
Chang, M. T., Jitaroon, K., Song, S., Roozdar, P., Wangworat, Y., Ibrahim, N., Ma, Y., Rao, V. K., Chang, S. D., Fernandez-Miranda, J. C., Patel, Z. M., Dodd, R. L., Hwang, et al
2021
- **Challenging our assumptions: oral corticosteroids and chronic rhinosinusitis without nasal polyposis.** *International forum of allergy & rhinology*
Chang, M. T., Hwang, P. H.
2021
- **Long-Term Outcomes of Inferior Meatus Augmentation Procedure to Treat Empty Nose Syndrome.** *The Laryngoscope*
Dholakia, S. S., Yang, A., Kim, D., Borchard, N. A., Chang, M. T., Khanwalkar, A., Lechner, M., Nayak, J. V.
2021
- **Sinonasal Ewing sarcoma misdiagnosed as recurrent glomangiopericytoma: Case report and literature review** *Otolaryngology Case Reports*
Huang, A. E., Hwang, P. H., Lin, J. H., Chang, M. T.
2021; 21: 100369
- **International Consensus Statement on Rhinology and Allergy: Rhinosinusitis.** *International forum of allergy & rhinology*
Orlandi, R. R., Kingdom, T. T., Smith, T. L., Bleier, B., DeConde, A., Luong, A., Poetker, D. M., Soler, Z., Welch, K. C., Wise, S. K., Adappa, N., Alt, J. A., Anselmo-Lima, et al
2020
- **Retrograde parotidectomy under local anesthesia for benign, malignant, and inflammatory lesions.** *American journal of otolaryngology*
Chang, M., Coughran, A., Lee, Y., Collins, J., Sirjani, D.
2019

- **Operative Management of Vocal Fold Avulsion Following Pediatric Laryngotracheal Separation.** *Ear, nose, & throat journal*
Chang, M. T., Schoppy, D. W., Schoppy, K. K., Sidell, D. R.
2019; 145561319866821
- **The 50 Most Cited Articles in Facial Plastic Surgery.** *Aesthetic plastic surgery*
Chang, M. T., Schwam, Z. G., Schutt, C. A., Kamen, E. M., Paskhover, B.
2017; 41 (5): 1202-1207
- **Clinical and molecular insights into adenoid cystic carcinoma: Neural crest-like stemness as a target.** *Laryngoscope investigative otolaryngology*
Yarbrough, W. G., Panaccione, A., Chang, M. T., Ivanov, S. V.
2016; 1 (4): 60-77
- **NOTCH1 and SOX10 are Essential for Proliferation and Radiation Resistance of Cancer Stem-Like Cells in Adenoid Cystic Carcinoma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Panaccione, A., Chang, M. T., Carbone, B. E., Guo, Y., Moskaluk, C. A., Virk, R. K., Chiriboga, L., Prasad, M. L., Judson, B., Mehra, S., Yarbrough, W. G., Ivanov, S. V.
2016; 22 (8): 2083-95
- **Severe epistaxis due to aberrant vasculature in a patient with STAT-1 mutation.** *Head & neck*
Chang, M. T., Schwam, Z. G., Hajek, M. A., Paskhover, B., Judson, B. L.
2016; 38 (3): E68-70
- **Applications of 3-Dimensional Printing in Facial Plastic Surgery.** *Journal of oral and maxillofacial surgery : official journal of the American Association of Oral and Maxillofacial Surgeons*
Schwam, Z. G., Chang, M. T., Barnes, M. A., Paskhover, B.
2016; 74 (3): 427-8
- **High rate of bilaterality in internal auditory canal metastases.** *American journal of otolaryngology*
Chang, M. T., Michaelides, E. M.
2015; 36 (6): 798-804
- **Quantifying interhospital patient sharing as a mechanism for infectious disease spread.** *Infection control and hospital epidemiology*
Huang, S. S., Avery, T. R., Song, Y., Elkins, K. R., Nguyen, C. C., Nutter, S. K., Nafday, A. A., Condon, C. J., Chang, M. T., Chrest, D., Boos, J., Bobashev, G., Wheaton, et al
2010; 31 (11): 1160-9