Stanford



C. Kwang Sung, MD, MS

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

Otolaryngology (Head and Neck Surgery)

CLINICAL OFFICE (PRIMARY)

• Stanford Dept of Otolaryngology, Head and Neck Surgery

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ACADEMIC CONTACT INFORMATION

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Bio

BIO

Dr. Sung is a laryngologist in the Department of Otolaryngology — Head & Neck Surgery who specializes in voice, swallowing and airway disorders, and is also the Residency Program Director.

Dr. Sung graduated from Harvey Mudd College in Claremont, CA with a bachelor's of science degree in chemistry with a minor in music. He earned a master's of science degree in organic chemistry from the University of Pennsylvania. He attended the State University of New York – Downstate Medical Center and obtained his MD in 2004.

He completed his internship in general surgery at Mt. Sinai School of Medicine in New York City in 2005. He continued at Mt. Sinai to finish his residency in otolaryngology – head & neck surgery in 2009. Following residency, he completed a fellowship in laryngology at Harvard Medical School – Massachusetts Eye and Ear Infirmary with Ramon A. Franco, Jr., MD in 2010.

Dr. Sung joined the Stanford faculty in 2010 as Assistant Professor. He is also a staff physician at the Veteran's Administration Palo Alto Health Care System.

In addition to his medical training, Dr. Sung worked extensively as a professional singer and actor for several years. He attended drama academy in New York City and performed in productions off-Broadway, in regional theaters, and in national and international tours. He has also performed with the Stanford University Symphonic Choir. He regularly lectures to voice and vocal pedagogy students in the Department of Music, in which he holds a courtesy appointment.

His clinical interests include the care of professional voice users; phonomicrosurgery; treatment of vocal fold paralysis with laryngeal framework surgery and injection techniques; diagnosis and Botox treatment of spasmodic dysphonia; office-based laser surgery; treatment of recurrent laryngeal papilloma; treatment of essential laryngeal tremor; and treatment of laryngeal cancer.

CLINICAL FOCUS

- Otolaryngology
- Laryngology
- Voice Disorders
- Hoarseness
- Singers
- · Vocal Cord Paralysis
- Spasmodic Dysphonia
- · Laryngeal Cancer
- Laryngeal Laser Thearapy
- Swallowing Disorders
- · Airway Disorders

ACADEMIC APPOINTMENTS

- Associate Professor University Medical Line, Otolaryngology (Head and Neck Surgery)
- Associate Professor University Medical Line (By courtesy), Music

ADMINISTRATIVE APPOINTMENTS

- Residency Program Director, Stanford University School of Medicine, Dept. of Otolaryngology Head & Neck Surgery, (2019- present)
- Director of Otolaryngology Medical Student Clerkship, Stanford University School of Medicine, Dept. of Otolaryngology Head & Neck Surgery, (2011-2017)
- Medical Student Admissions Reviewer, Stanford University School of Medicine, (2012-2013)
- Laryngology & Bronchoesophagology Education Committee, American Academy of Otolaryngology Head and Neck Surgery, (2011-2017)
- Home Study Course Laryngology & Bronchoesophagology Working Group, American Academy of Otolaryngology Head and Neck Surgery, (2011-2017)
- Course Director of Otolaryngology Head & Neck Surgery Grand Rounds, Stanford University School of Medicine, Dept. of Otolaryngology, (2011-2015)

HONORS AND AWARDS

- Bay Area Top Doctors, San Francisco Magazine (2017-2024)
- Honor Award, American Academy of Otolaryngology Head & Neck Surgery (2023)
- Patient-Centeredness Honoree, Stanford Health Care (2018-2019)
- J. Arthur Campbell Award for Chemistry, Harvey Mudd College (1989)
- Phi Lambda Upsilon, University of Pennsylvania (1989)
- Outstanding Teaching Award, Department of Chemistry, University of Pennsylvania (1990)
- Alpha Omega Alpha, SUNY Downstate Medical Center (2003)
- Award for Outstanding Academic Achievement, Department of Otolaryngology, SUNY Downstate Medical Center (2004)
- Magna Cum Laude, SUNY Downstate Medical Center (2004)
- Third Prize, Metropolitan New York Resident Research Day Symposium (2007)
- Travel Award, Triological Society (2007, 2009)
- First Prize Proffered Paper Session, New York Head and Neck Society (2008)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

• Member, American Academy of Otolaryngology - Head & Neck Surgery (2005 - present)

- Diplomate, American Board of Otolaryngology (2010 present)
- Member, Society of University Otolaryngologists (2012 present)
- Member, American Broncho-Esophagological Association (ABEA) (2013 present)
- Member, Otolaryngology Program Directors Organization (2019 present)

PROFESSIONAL EDUCATION

- Internship: Icahn School of Medicine at Mount Sinai Department of Surgery-Division of General Surgery (2005) NY
- Fellowship: Massachusetts Eye and Ear Infirmary Dept of Otolaryngology (2010) MA
- Residency: Icahn School of Medicine at Mount Sinai Dept of Otolaryngology (2009) NY
- Board Certification: Otolaryngology, American Board of Otolaryngology (2010)
- Fellowship, Harvard Medical School Massachusetts Eye & Ear Infirmary, Laryngology (2010)
- Residency, Mt. Sinai School of Medicine, Otolaryngology (2009)
- Internship, Mt. Sinai School of Medicine, General Surgery (2005)
- MD, State University of New York Downstate Medical Center, Medicine (2004)
- MS, University of Pennsylvania , Organic Chemistry (1992)
- BS, Harvey Mudd College, Chemistry (1989)

LINKS

- · Stanford Voice & Swallowing Center: https://stanfordhealthcare.org/medical-clinics/voice-swallowing-center.html
- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

- Development of office-based laryngeal surgical methods and instrumentation.
- Clinical outcomes after treatment of glottic insufficiency.
- Clinical outcomes after treatment of benign vocal fold pathology.
- Medical student and resident training curriculum development.

Teaching

COURSES

2023-24

Introduction to Otolaryngology-Head and Neck Surgery: OTOHNS 200 (Win)

2022-23

• Introduction to Otolaryngology-Head and Neck Surgery: OTOHNS 200 (Win)

2021-22

• Introduction to Otolaryngology-Head and Neck Surgery: OTOHNS 200 (Win)

2020-21

• Introduction to Otolaryngology-Head and Neck Surgery: OTOHNS 200 (Win)

Publications

PUBLICATIONS

• Impact of Obesity on Timing of Tracheotomy: A Multi-institutional Retrospective Study. The Laryngoscope

Yousef, A., Soliman, S. I., Solomon, I., Panuganti, B. A., Francis, D. O., Pang, J., Klebaner, D., Asturias, A., Alattar, A., Wood, S., Terry, M., Bryson, P. C., Tipton, et al

2024

• A Scoping Review of Artificial Intelligence Detection of Voice Pathology: Challenges and Opportunities. Otolaryngology--head and neck surgery: official journal of American Academy of Otolaryngology-Head and Neck Surgery

Liu, G. S., Jovanovic, N., Sung, C. K., Doyle, P. C. 2024

Parosteal Lipoma Overlying an Osteochondroma of the Hyoid Bone: A Case Report and Literature Review. The Laryngoscope

Green, A., Wei, E. X., Chang-Graham, A., Holmes, B., Smith, A., Sung, C. K. 2023

• Factors Associated With Otolaryngologists Performing Tracheotomy. JAMA otolaryngology-- head & neck surgery

Soliman, S. I., Panuganti, B. A., Francis, D. O., Pang, J., Klebaner, D., Asturias, A., Alattar, A., Wood, S., Terry, M., Bryson, P. C., Tipton, C. B., Zhao, E. E., O'Rourke, et al

2023

End-to-end deep learning classification of vocal pathology using stacked vowels. Laryngoscope investigative otolaryngology

Liu, G. S., Hodges, J. M., Yu, J., Sung, C. K., Erickson-DiRenzo, E., Doyle, P. C. 2023; 8 (5): 1312-1318

• Tracheal stenosis and airway complications in the Coronavirus Disease-19 era. Annals of thoracic surgery short reports

Krishnan, A., Guenthart, B. A., Choi, A., Trope, W., Berry, G. J., Pinezich, M. R., Vunjak-Novakovic, G., Shaller, B., Sung, C. K., Liou, D. Z., Damrose, E. J., Lui, N. S.

2023

 Safety and Utility of Transnasal Humidified Rapid-Insufflation Ventilatory Exchange (THRIVE) for Laser Laryngeal Surgery. Otolaryngology--head and neck surgery: official journal of American Academy of Otolaryngology-Head and Neck Surgery

Khan, N. C., Vukkadala, N., Saxena, A., Damrose, E. J., Nekhendzy, V., Sung, C. K.

• Diagnosis and Management of Vocal Complications after Chondrolaryngoplasty. The Laryngoscope

Nuyen, B., Qian, Z. J., Rakkar, M., Thomas, J. P., Erickson-DiRenzo, E., Sung, C. K. 2022

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

Clinicodemographic Predictors of Tracheotomy Tube Size and Decannulation: A Multiinstitutional Retrospective Cohort Study on Tracheotomy. Annals
of surgery

Panuganti, B. A., Pang, J., Francis, D. O., Klebaner, D., Asturias, A., Alattar, A., Wood, S., Terry, M., Bryson, P. C., Tipton, C. B., Zhao, E. E., O'Rourke, A., Maria, et al

1800

 Feminization Laryngoplasty: 17-Year Review on Long-Term Outcomes, Safety, and Technique. Otolaryngology--head and neck surgery: official journal of American Academy of Otolaryngology-Head and Neck Surgery

Nuyen, B. A., Qian, Z. J., Campbell, R. D., Erickson-DiRenzo, E., Thomas, J., Sung, C. K.

2021: 1945998211036870

• Mainstream Cigarette Smoke Impacts the Mouse Vocal Fold Epithelium and Mucus Barrier. The Laryngoscope

Erickson-DiRenzo, E., Easwaran, M., Martinez, J. D., Dewan, K., Sung, C. K.

2021

Operative and Conservative Management of Laryngeal Contact Granuloma: A Network Analysis and Systematic Review JOURNAL OF VOICE

Tsai, S., Ma, Y., Shih, L., Tsou, Y., Sung, C.

2021; 35 (2): 300-306

Otolaryngology Residency Interviews in a Socially Distanced World: Strategies to Recruit and Assess Applicants. Otolaryngology--head and neck surgery:
 official journal of American Academy of Otolaryngology-Head and Neck Surgery

Chou, D. W., Pletcher, S. D., Bruss, D., Sung, C. K., Diaz, R. C., Liang, J., Durr, M. L.

2020: 194599820957961

• A Preliminary Study of Vocal Health Among Collegiate A Cappella Singers JOURNAL OF VOICE

Baird, B. J., Mokhtari, T. E., Sung, C., Erickson-DiRenzo, E. 2020; 34 (3)

• The Clinical Course of Idiopathic Bilateral Vocal Fold Motion Impairment in Adults: Case Series and Review of the Literature JOURNAL OF VOICE

Abu Ghanem, S., Junlapan, A., Tsai, S., Shih, L., Sung, C., Damrose, E. J.

2020; 34 (3): 465-70

• Vocal Hygiene in Collegiate Singers-Does Formal Training Relate to Practices? Journal of voice: official journal of the Voice Foundation

Santa Maria, C., Sung, C., Baird, B. J., Erickson-DiRenzo, E. 2020

• Intraoperative Evaluation of Essential Vocal Tremor in Deep Brain Stimulation Surgery. American journal of speech-language pathology

Erickson-DiRenzo, E., Sung, C. K., Ho, A. L., Halpern, C. H.

2020: 1-13

• Early Injection Laryngoplasty After Surgery: 30 Cases and Proposed Aspiration Assessment Protocol JOURNAL OF VOICE

Abu-Ghanem, S., Rudy, S., Deane, S., Tsai, S., Shih, L., Damrose, E. J., Sung, C.

2020; 34 (1): 121-26

Multiparametric laryngeal assessment of the effect of thalamic deep brain stimulation on essential vocal tremor. Parkinsonism & related disorders

Erickson-DiRenzo, E. n., Kuijper, F. M., Barbosa, D. A., Lim, E. A., Lin, P. T., Lising, M. A., Huang, Y. n., Sung, C. K., Halpern, C. H.

2020; 81: 106-12

• Coronavirus Disease 2019: Challenges Associated with the Treatment of Head and Neck Oncology and Laryngology Patients in the Coronavirus Disease

2019 Era. Otolaryngologic clinics of North America

Baird, B. J., Sung, C. K.

2020

Autologous fibroblasts for vocal scars and age-related atrophy: A randomized clinical trial. The Laryngoscope

Ma, Y., Long, J., Amin, M. R., Branski, R. C., Damrose, E. J., Sung, C., Achlatis, S., Kearney, A., Chhetri, D. K. 2019

• Operative and Conservative Management of Laryngeal Contact Granuloma: A Network Analysis and Systematic Review. Journal of voice: official journal of the Voice Foundation

Tsai, S. W., Ma, Y. F., Shih, L. C., Tsou, Y. A., Sung, C.

• Type I thyroplasty: A safe outpatient procedure

Junlapan, A., Sung, C., Damrose, E. J.

WILEY.2019: 1640-46

• Outcomes in modified transoral resection of diverticula for Zenker's diverticulum EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY

Junlapan, A., Abu-Ghanem, S., Sung, C., Damrose, E. J.

2019; 276 (5): 1423–29

• Treatment of early-stage laryngeal cancer: A comparison of treatment options ORAL ONCOLOGY

Baird, B., Sung, C., Beadle, B. M., Divi, V.

2018: 87: 8-16

• Improvement in the Reflux Symptom Index Following Surgery for Cricopharyngeal Dysfunction JOURNAL OF VOICE

Jiang, N., Sung, C. K., Damrose, E. J.

2017; 31 (1): 86-89

Surgical Management of Supraglottic Stenosis Using Intubationless Optiflow. The Annals of otology, rhinology, and laryngology

Tam, K. n., Jeffery, C. n., Sung, C. K.

2017; 126 (9): 669-72

Phonomicrosurgery simulation: A low-cost teaching model using easily accessible materials. Laryngoscope

Zambricki, E. A., Bergeron, J. L., DiRenzo, E. E., Sung, C. K.

2016; 126 (11): 2528-2533

 Consultation via telemedicine and access to operative care for patients with head and neck cancer in a Veterans Health Administration population HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK

Beswick, D. M., Vashi, A., Song, Y., Pham, R., Holsinger, F. C., Rayl, J. D., Walker, B., Chardos, J., Yuan, A., Benadam-Lenrow, E., Davis, D., Sung, C. K., Divi, et al

2016; 38 (6): 925-929

Tracheal Stenosis Because of Wegener Granulomatosis Misdiagnosed as Asthma. A & A case reports

O'Hear, K. E., Ingrande, J., Brodsky, J. B., Morton, J. M., Sung, C.

2016; 6 (10): 311-312

• Symptomatic Anterior Cervical Osteophyte Causing Dysphagia: Case Report, Imaging, and Review of the Literature. Cure us

Chen, Y., Sung, K., Tharin, S.

2016; 8 (2)

• Deep brain stimulation for vocal tremor: a comprehensive, multidisciplinary methodology. Neurosurgical focus

Ho, A. L., Erickson-DiRenzo, E., Pendharkar, A. V., Sung, C., Halpern, C. H.

2015; 38 (6): E6-?

• Deep brain stimulation for vocal tremor: a comprehensive, multidisciplinary methodology NEUROSURGICAL FOCUS

Ho, A. L., Erickson-DiRenzo, E., Pendharkar, A. V., Sung, C., Halpern, C. H.

2015; 38 (6)

Endoscopic suture retriever for endolaryngeal keel placement in treatment of anterior glottic webs. The Annals of otology, rhinology, and laryngology

Beswick, D. M., Clark, A. K., Bergeron, J., Sung, C. K.

2015; 124 (3): 240-243

• Deep Brain Stimulation for Essential Vocal Tremor: A Technical Report. Cureus

Ho, A. L., Choudhri, O., Sung, C. K., DiRenzo, E. E., Halpern, C. H.

2015; 7 (3)

Single-Operator Flexible Nasolaryngoscopy-Guided Transthyrohyoid Vocal Fold Injections Meeting of the American-Broncho-Esophagological-Association

Sung, C. K., Tsao, G. J.

ANNALS PUBL CO.2013: 9-14

• Office-Based Laser Laryngeal Surgery Op Tech in Otolaryngol

Sung CK

2012; 23 (2): 102-105

• Management of Recurrent Laryngeal Nerve Paralysis Surgery of the Thyroid and Parathyroid Glands

Sung CK, Franco RA Jr.

2011

Airway and respiratory interventions: Tracheostomies. Spinal Cord Injury: Rehabilitation Medicine Quick Reference

Altman KW, Sung CK

2010

Airway and respiratory complications: Tracheal Stenosis Spinal Cord Injury: Rehabilitation Medicine Quick Reference

Altman KW, Sung CK

2010

• TRANSORAL ROBOTIC SURGERY FOR THE MANAGEMENT OF HEAD AND NECK CANCER: A PRELIMINARY EXPERIENCE HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK

Genden, E. M., Desai, S., Sung, C.

2009; 31 (3): 283-289

• Transoral robotic assisted free flap reconstruction OTOLARYNGOLOGY-HEAD AND NECK SURGERY

 $Mukhija,\,V.\,\,K.,\,Sung,\,C.,\,Desai,\,S.\,\,C.,\,Wanna,\,G.,\,Genden,\,E.\,\,M.$

2009; 140 (1): 124-125

• Transoral Robotic Surgery Using a Carbon Dioxide Flexible Laser for Tumors of the Upper Aerodigestive Tract LARYNGOSCOPE

Desai, S. C., Sung, C., Jang, D. W., Genden, E. M.

2008; 118 (12): 2187-2189

• Transoral Robotic Surgery Using an Image Guidance System LARYNGOSCOPE

Desai, S. C., Sung, C., Genden, E. M.

2008; 118 (11): 2003-2005

 The administration of IL-12/GM-CSF and Ig-4-1BB ligand markedly decreases murine floor of mouth squamous cell cancer OTOLARYNGOLOGY-HEAD AND NECK SURGERY

Adappa, N. D., Sung, C., Choi, B., Huang, T., Genden, E. M., Shin, E. J.

2008; 139 (3): 442-448

• Combined VSV Oncolytic Virus and Chemotherapy for Squamous Cell Carcinoma 110th Annual Meeting of the Triological-Society

Sung, C., Choi, B., Wanna, G., Genden, E. M., Woo, S. L., Shin, E. J.

WILEY-BLACKWELL.2008: 237-42