



Davud Sirjani, MD

Clinical Professor, Otolaryngology (Head and Neck Surgery)

CLINICAL OFFICE (PRIMARY)

- **Stanford Otolaryngology Head and Neck Surgery**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Dr. Davud Baradaran Sirjani graduated with a 4.0 in Biochemistry from the University of Arizona, where he received the College of Science's Most Outstanding Senior Award and the Centennial Achievement Award. He subsequently matriculated to the University of Arizona College of Medicine as a Dean's Scholar.

He completed his residency in Otolaryngology–Head and Neck Surgery at Washington University in St. Louis, two years of NIH research on cochlear electrophysiology and followed by advanced fellowship training in Head and Neck Oncology and Microvascular Reconstruction at University of Washington in Seattle.

Dr. Sirjani joined the faculty at Stanford University School of Medicine in 2009 and has served as Chief of Otolaryngology at the VA Palo Alto Health Care System since 2012. Under his leadership, the VA otolaryngology program has experienced substantial growth in clinical volume, access, and regional impact, expanding its reach and complexity of care across California and the broader VA network.

A national leader in telemedicine, Dr. Sirjani pioneered innovative care delivery models to improve access to complex head and neck cancer care for veterans. In 2012, he established the VA Palo Alto Head and Neck Cancer Telemedicine Program, which has grown into the largest programs of its kind in the United States. This initiative connects patients across geographically underserved regions—including the Pacific Islands and Mountain West—to subspecialty expertise at the Stanford VA, improving timeliness of care, surgical triage, and oncologic outcomes.

Dr. Sirjani has served as Director of the Salivary Gland Program at Stanford since 2013, where his clinical practice focuses on minimally invasive approaches to parotid and salivary gland disease. He was the first surgeon at Stanford to introduce sialendoscopy, significantly expanding gland-preserving treatment options. His work emphasizes reducing morbidity, preserving facial nerve function, and optimizing functional and aesthetic outcomes in both benign and malignant disease. Currently, he is the most experienced surgeon to treat Peomorphic adenomas of the parotid given his novel surgical technique.

His research and innovation efforts center on surgical simulation, intraoperative nerve protection, and techniques to minimize complications in head and neck surgery. Dr. Sirjani developed one of the only parotidectomy surgical simulators in the country, supported by CIMIT, which is used to train surgeons in facial nerve preservation and operative precision. His work bridges engineering, education, and clinical care, advancing both surgical training and patient safety.

Clinically, Dr. Sirjani is known for high-volume expertise in complex salivary and head and neck oncologic surgery, with a focus on efficiency, precision, and patient-centered outcomes. He integrates advanced technology, data-driven decision-making, and multidisciplinary collaboration to streamline care—from initial consultation and remote triage to definitive surgical management and reconstruction.

Through his dual leadership roles at Stanford and the VA, Dr. Sirjani has built programs that emphasize innovation, access, and excellence in care delivery. His contributions continue to shape modern approaches to head and neck cancer treatment, surgical education, and telehealth-enabled specialty care.

CLINICAL FOCUS

- Cancer > Head and Neck Cancer
- Parotid Neoplasms
- Salivary Gland Neoplasms
- Skull Base Neoplasms
- Surgical Flaps
- Sialoendoscopy
- Jaw
- Neck Dissection
- Carcinoma, Skin Appendage
- Otolaryngology/Facial Plastic Surgery

ACADEMIC APPOINTMENTS

- Clinical Professor, Otolaryngology (Head and Neck Surgery)

ADMINISTRATIVE APPOINTMENTS

- Chief of Otolaryngology, VA Palo Alto, (2012- present)
- Director, Stanford Salivary Gland Program, (2013- present)

HONORS AND AWARDS

- Who's Who in America, Marquis Who's Who Publications Board (2017-2018)
- Faculty Teaching Award, Stanford Department of Otolaryngology (2017)
- Faculty Teaching Award, Stanford Department of Otolaryngology (2013)
- "Surgery at the End of Life", American College of Surgeons, Issues Committee of Resident and Associate Society (2012)
- "Reconstructive Dilemma of a Rare Mandibular Tumor", Saint Louis ENT Club (2006)
- Resident Award, Association for Research in Otolaryngology (2004)
- Michael Paparella Award for Outstanding Research, Washington University (2003)
- Young Investigator Award, Academy of Clinical Laboratory Physicians and Scientists (2000)

- Caldwell Research Award, University of Arizona College of Medicine (1999)
- Excellence in Teaching Histology, University of Arizona College of Medicine (1999)
- Dean's Scholar, University of Arizona College of Medicine (1996-2001)
- Centennial Achievement Award, University of Arizona (1996)
- Most Outstanding Senior Award in Biochemistry, University of Arizona (1996)
- Most Outstanding Senior Award in the College of Science, University of Arizona (1996)
- Silver Bowl Award (4.0 GPA excluding last semester), University of Arizona (1996)
- Phi Kappa Phi, University of Arizona (1992-96)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair, Medical Devices Committee for the American Academy of Otolaryngology (2018 - 2020)
- Active Candidate for Fellowship, Triological Society (2016 - present)
- Member, American Academy of Otolaryngology, Medical Devices and Drugs Committee (2013 - present)
- Member, North American Skull Base Society (2012 - present)
- Member, Association of Northern California Oncologist (2011 - present)
- Member, American Telemedicine Association (2011 - present)

PROFESSIONAL EDUCATION

- Residency: Washington University School Of Medicine (2008) MO
- Internship: Washington University School Of Medicine (2002) MO
- Medical Education: University of Arizona College of Medicine Office of the Registrar (2001) AZ
- Fellowship, Stanford Biodesign Faculty Fellowship , Innovation (2017)
- F.A.C.S, American College of Surgeons (2013)
- Board Certification: Otolaryngology, American Board of Otolaryngology (2010)
- Fellowship: University of Washington Medical Center (2009) WA
- Post-Sophomore Fellow, University of Arizona College of Medicine , Pathology (1999)
- Bachelor of Science, University of Arizona , Biochemistry (1996)

LINKS

- Salivary Gland Website: <https://med.stanford.edu/ohns/OHNS-healthcare/head-and-neck-surgery/programs/salivary-gland-program.html>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>
- Google Scholar: <https://scholar.google.com/citations?user=SKXYCKIAAAAJ>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Innovation of devices to improve the quality of life of patients with advanced head and neck cancers, minimal invasive parotid surgery, surgical simulation, flap reconstruction of large head and neck defects to restore cosmesis and function (speech, swallowing), stem cell recovery of radiation induced salivary damage, and salivary gland cancer biology

CLINICAL TRIALS

- Human Salivary Gland Disposition of A341 in Patients Undergoing Salivary Gland Surgery, Not Recruiting

Publications

PUBLICATIONS

- **Comorbid Depression in Patients With Head and Neck Cancer Compared With Other Cancers.** *JAMA otolaryngology-- head & neck surgery*
Martinez, M. C., Finegersh, A., Baik, F. M., Holsinger, F. C., Starmer, H. M., Orloff, L. A., Sunwoo, J. B., Sirjani, D., Divi, V., Chen, M. M.
2024
- **3D Printing for the Development of Palatal Defect Prosthetics.** *Federal practitioner : for the health care professionals of the VA, DoD, and PHS*
Calderon, C., Golzar, A., Marcott, S., Gifford, K., Napel, S., Fleischmann, D., Baik, F. M., Osborne, T. F., Finegersh, A., Sirjani, D.
2024; 41 (Suppl 2): S3-S7
- **Suture Stenting After Sialendoscopy: A Novel Technique That Reduces Risk of Recurrent Parotitis.** *The Laryngoscope*
Finegersh, A., Chang, J., Lee, Y. J., Sirjani, D.
2023
- **Aldehyde dehydrogenase 3A1 deficiency leads to mitochondrial dysfunction and impacts salivary gland stem cell phenotype.** *PNAS nexus*
Viswanathan, V., Cao, H., Saiki, J., Jiang, D., Mattingly, A., Nambiar, D., Bloomstein, J., Li, Y., Jiang, S., Chamoli, M., Sirjani, D., Kaplan, M., Holsinger, et al
2022; 1 (2): pgac056
- **Landscape of innate lymphoid cells in human head and neck cancer reveals divergent NK cell states in the tumor microenvironment.** *Proceedings of the National Academy of Sciences of the United States of America*
Moreno-Nieves, U. Y., Tay, J. K., Saumyaa, S., Horowitz, N. B., Shin, J. H., Mohammad, I. A., Luca, B., Mundy, D. C., Gulati, G. S., Bedi, N., Chang, S., Chen, C., Kaplan, et al
2021; 118 (28)
- **The Future of Telemedicine: Revolutionizing Health Care or Flash in the Pan?** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Losorelli, S. D., Venda, V., Hildrew, D. M., Woodson, E. A., Brenner, M. J., Sirjani, D. B.
2021: 194599820983330
- **Tracheostomy During the COVID-19 Pandemic: Comparison of International Perioperative Care Protocols and Practices in 26 Countries.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Bier-Laning, C., Cramer, J. D., Roy, S., Palmieri, P. A., Amin, A., Anon, J. M., Bonilla-Asalde, C. A., Bradley, P. J., Chaturvedi, P., Cognetti, D. M., Dias, F., Di Stadio, A., Fagan, et al
2020: 194599820961985
- **Radiographic surveillance of abdominal free fat graft in complex parotid pleomorphic adenomas: A case series.** *Heliyon*
Lee, Y. J., Fischbein, N. J., Megwalu, U. n., Baik, F. M., Divi, V. n., Kaplan, M. J., Sirjani, D. B.
2020; 6 (5): e03894
- **Risks of Neoplasia and Malignancy in Surgically Resected Cystic Parotid Lesions.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Boursiquot, B. C., Fischbein, N. J., Sirjani, D., Megwalu, U. C.
2019: 194599819889699
- **Regionalization of head and neck cancer surgery may fragment care and impact overall survival** *LARYNGOSCOPE*
Chen, M. M., Megwalu, U. C., Liew, J., Sirjani, D., Rosenthal, E. L., Divi, V.
2019; 129 (6): 1413–19
- **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; 40 (2): 152–55
- **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

- **Saliva: an all-rounder of our body.** *European journal of pharmaceuticals and biopharmaceutics : official journal of Arbeitsgemeinschaft fur Pharmazeutische Verfahrenstechnik e.V*
Roblegg, E. n., Coughran, A. n., Sirjani, D. n.
2019
- **Utility of videolaryngoscopy for diagnostic and therapeutic interventions in head and neck surgery.** *American journal of otolaryngology*
Shenson, J. A., Marcott, S. n., Dewan, K. n., Lee, Y. J., Mariano, E. R., Sirjani, D. B.
2019: 102284
- **Jaw Opening Decreases Window to the Deep Parotid Lobe** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Lee, Y., Megwalu, U., Melara, E., Divi, V., Fernandes, V. T., Sirjani, D.
2018; 159 (3): 439–41
- **Regionalization of Head and Neck Cancer Surgery May Fragment Care and Impact Overall Survival.** *The Laryngoscope*
Chen, M. M., Megwalu, U. C., Liew, J., Sirjani, D., Rosenthal, E. L., Divi, V.
2018
- **Outcomes in Head and Neck Resections That Require Multiple-Flap Reconstructions A Systematic Review** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*
Gao, R. W., Nuyen, B. A., Divi, V., Sirjani, D., Rosenthal, E. L.
2018; 144 (8): 746–52
- **Oropharyngeal Squamous Cell Carcinoma Incidence and Mortality Trends in the United States, 1973-2013** *LARYNGOSCOPE*
Megwalu, U. C., Sirjani, D., Devine, E. E.
2018; 128 (7): 1582–88
- **Aldehyde dehydrogenase 3A1 activation prevents radiation-induced xerostomia by protecting salivary stem cells from toxic aldehydes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Saiki, J. P., Cao, H., Van Wassenhove, L. D., Viswanathan, V., Bloomstein, J., Nambiar, D. K., Mattingly, A. J., Jiang, D., Chen, C., Stevens, M. C., Simmons, A. L., Park, H., von Eyben, et al
2018; 115 (24): 6279–84
- **Association of Time between Surgery and Adjuvant Therapy with Survival in Oral Cavity Cancer.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Chen, M. M., Harris, J. P., Orosco, R. K., Sirjani, D., Hara, W., Divi, V.
2018; 158 (6): 1051–56
- **Association of Time between Surgery and Adjuvant Therapy with Survival in Oral Cavity Cancer** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Chen, M. M., Harris, J. P., Orosco, R. K., Sirjani, D., Hara, W., Divi, V.
2018; 158 (6): 1051–56
- **Aldehyde dehydrogenase 3A1 activation prevents radiation-induced xerostomia by protecting salivary stem cells from toxic aldehydes.** *Proceedings of the National Academy of Sciences of the United States of America*
Saiki, J. P., Cao, H., Van Wassenhove, L. D., Viswanathan, V., Bloomstein, J., Nambiar, D. K., Mattingly, A. J., Jiang, D., Chen, C., Stevens, M. C., Simmons, A. L., Park, H. S., von Eyben, et al
2018
- **Association of Survival With Shorter Time to Radiation Therapy After Surgery for US Patients With Head and Neck Cancer** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*
Harris, J. P., Chen, M. M., Orosco, R. K., Sirjani, D., Divi, V., Hara, W.
2018; 144 (4): 349–59
- **Jaw Opening Decreases Window to the Deep Parotid Lobe.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Lee, Y., Megwalu, U., Melara, E., Divi, V., Fernandes, V. T., Sirjani, D.
2018: 194599818766317
- **Outcomes in Head and Neck Resections That Require Multiple-Flap Reconstructions: A Systematic Review.** *JAMA otolaryngology-- head & neck surgery*
Gao, R. W., Nuyen, B. A., Divi, V. n., Sirjani, D. n., Rosenthal, E. L.

2018

- **Oropharyngeal squamous cell carcinoma incidence and mortality trends in the United States, 1973-2013.** *The Laryngoscope*
Megwalu, U. C., Sirjani, D., Devine, E. E.

2017

- **Retrograde Parotidectomy and facial nerve outcomes: A case series of 44 patients** *AMERICAN JOURNAL OF OTOLARYNGOLOGY*
Kligerman, M. P., Song, Y., Schoppy, D., Divi, V., Megwalu, U. C., Haughey, B. H., Sirjani, D.
2017; 38 (5): 533–36
- **Node-positive cutaneous squamous cell carcinoma of the head and neck: Survival, high-risk features, and adjuvant chemoradiotherapy outcomes.** *Head & neck*
Amoils, M., Lee, C. S., Sunwoo, J., Aasi, S. Z., Hara, W., Kim, J., Sirjani, D., Colevas, A. D., Chang, A. L., Divi, V.
2017
- **Risk of Nodal Metastasis in Major Salivary Gland Adenoid Cystic Carcinoma.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Megwalu, U. C., Sirjani, D.
2017: 194599817690138-?
- **Association of Postoperative Radiotherapy With Survival in Patients With N1 Oral Cavity and Oropharyngeal Squamous Cell Carcinoma** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*
Chen, M. M., Harris, J. P., Hara, W., Sirjani, D., Divi, V.
2016; 142 (12): 1224-1230
- **Lymph Node Count From Neck Dissection Predicts Mortality in Head and Neck Cancer** *JOURNAL OF CLINICAL ONCOLOGY*
Divi, V., Chen, M. M., Nussenbaum, B., Rhoads, K. F., Sirjani, D. B., Holsinger, F. C., Shah, J. L., Hara, W.
2016; 34 (32): 3892-?
- **Contemporary mandibular reconstruction.** *Current opinion in otolaryngology & head and neck surgery*
Divi, V., Schoppy, D. W., Williams, R. A., Sirjani, D. B.
2016; 24 (5): 433-439
- **Faster Triage of Veterans With Head and Neck Cancer.** *Federal practitioner : for the health care professionals of the VA, DoD, and PHS*
Kligerman, M., Asaly, A., Kwan, M., Kaplan, M., Fee, W. E., Yuan, A., Benedam-Lenrow, E., Song, Y., Pham, R., Sirjani, D.
2016; 33 (Suppl 5): 24S–29S
- **Ameloblastoma: a clinical review and trends in management** *EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY*
McClary, A. C., West, R. B., McClary, A. C., Pollack, J. R., Fischbein, N. J., Holsinger, C. F., Sunwoo, J., Colevas, A. D., Sirjani, D.
2016; 273 (7): 1649-1661
- **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
- **Oral Squamous Cell Carcinoma Mimicking Peri-Implantitis** *CLINICAL ADVANCES IN PERIODONTICS*
Chainani-Wu, N., Chang, C., Sim, C., Wu, T. C., Cox, D., Sirjani, D., Silverman, S.
2016; 6 (2): 83–88
- **Oral Squamous Cell Carcinoma Mimicking Peri-Implantitis.** *Clinical advances in periodontics*
Chainani-Wu, N., Chang, C., Sim, C., Wu, T. C., Cox, D., Sirjani, D., Silverman, S.
2016; 6 (2): 83-88
- **Botulinum Toxin Confers Radioprotection in Murine Salivary Glands** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Zeidan, Y. H., Xiao, N., Cao, H., Kong, C., Le, Q., Sirjani, D.
2016; 94 (5): 1190-1197
- **Anterolateral approach to the upper cervical spine: Case report and operative technique** *HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK*

- Song, Y., Tharin, S., Divi, V., Prolo, L. M., Sirjani, D. B.
2015; 37 (9): E115-E119
- **CD271 is a functional and targetable marker of tumor-initiating cells in head and neck squamous cell carcinoma.** *Oncotarget*
Murillo-Sauca, O., Chung, M. K., Shin, J. H., Karamboulas, C., Kwok, S., Jung, Y. H., Oakley, R., Tysome, J. R., Farnebo, L. O., Kaplan, M. J., Sirjani, D., Divi, V., Holsinger, et al
2014; 5 (16): 6854-6866
 - **Neurotrophic factor GDNF promotes survival of salivary stem cells.** *journal of clinical investigation*
Xiao, N., Lin, Y., Cao, H., Sirjani, D., Giaccia, A. J., Koong, A. C., Kong, C. S., Diehn, M., Le, Q.
2014; 124 (8): 3364-3377
 - **A Novel Aldehyde Dehydrogenase-3 Activator (Alda-89) Protects Submandibular Gland Function from Irradiation without Accelerating Tumor Growth.** *Clinical cancer research*
Xiao, N., Cao, H., Chen, C., Kong, C. S., Ali, R., Chan, C., Sirjani, D., Graves, E., Koong, A., Giaccia, A., Mochly-Rosen, D., Le, Q.
2013; 19 (16): 4455-4464
 - **Cost-effectiveness landscape analysis of treatments addressing xerostomia in patients receiving head and neck radiation therapy.** *Oral surgery, oral medicine, oral pathology and oral radiology*
Sasportas, L. S., Hosford, D. N., Sodini, M. A., Waters, D. J., Zambricki, E. A., Barral, J. K., Graves, E. E., Brinton, T. J., Yock, P. G., Le, Q., Sirjani, D.
2013; 116 (1): e37-51
 - **Impact of positron emission tomography/computed tomography surveillance at 12 and 24 months for detecting head and neck cancer recurrence** *CANCER*
Ho, A. S., Tsao, G. J., Chen, F. W., Shen, T., Kaplan, M. J., Colevas, A. D., Fischbein, N. J., Quon, A., Quynh-Thu Le, Q. T., Pinto, H. A., Fee, W. E., Sunwoo, J. B., Sirjani, et al
2013; 119 (7): 1349-1356
 - **A Novel Aldehyde Dehydrogenase-3 Activator Leads to Adult Salivary Stem Cell Enrichment In Vivo** *CLINICAL CANCER RESEARCH*
Banh, A., Xiao, N., Cao, H., Chen, C., Kuo, P., Krakow, T., Bavan, B., Khong, B., Yao, M., Ha, C., Kaplan, M. J., Sirjani, D., Jensen, et al
2011; 17 (23): 7265-7272
 - **Lefort I Osteotomy access to the Anterior Skull Base** *Operative Techniques in Otolaryngology*
Sirjani DB, Futran N.
2010; 21 (1): 22-25