

RYAN KENNETH OROSCO, MD, FACS

Associate Professor with Tenure
Head & Neck Surgical Oncology & Microvascular Reconstruction
Department of Surgery, Division of Otolaryngology
Director, Oral & Maxillofacial Surgery
University of New Mexico
Albuquerque, NM | RKOrosco@salud.unm.edu

LEADERSHIP & ADMINISTRATIVE EXPERIENCE

2025-present Medical Director, Oromaxillofacial Service Line, University of New Mexico Hospital
2022 Elected Disease Team Leader, Head & Neck Oncology, UCSD Moores Cancer Center

EDUCATION

07/2016-06/2017 Stanford University
Fellowship: Head and Neck Surgical Oncology and Microvascular Reconstruction

07/2011-06/2016 University of California San Diego
Residency: Otolaryngology—Head and Neck Surgery

07/2010-06/2011 University of California San Diego
Internship: General Surgery (Otolaryngology)

08/2006-05/2010 Johns Hopkins University – Baltimore, Maryland
Johns Hopkins School of Medicine
Doctor of Medicine, M.D.

08/2002-05/2006 New Mexico State University – Las Cruces, New Mexico
The Klipsch School of Electrical and Computer Engineering
Bachelor of Science, Electrical Engineering (High Honors)
Minors in Mathematics and Biochemistry

EMPLOYMENT HISTORY

07/2026-present Associate Professor, with Tenure, Dept of Surgery, Univ of New Mexico
11/2023-present Medical Staff, Presbyterian Hospital – Albuquerque, NM
01/2023-06/2026 Associate Professor, Tenure Track, Dept of Surgery, Univ of New Mexico
11/2022-12/2022 Assistant Professor, Dept of Surgery (Otolaryngology), Univ of New Mexico
09/2017-10/2022 Assistant Professor, Department of Surgery (Otolaryngology), UC San Diego
09/2018-10/2022 Affiliate Professor, Dept of Electrical & Computer Engineering, UC San Diego
12/2017-10/2022 Research Health Science Specialist, (WOC) VA San Diego Healthcare System
07/2016-06/2017 Clinical Instructor, Department of Otolaryngology, Stanford School of Medicine
07/2012-06/2013 Research Health Science Specialist, (WOC) VA San Diego Healthcare System
07/2012-06/2013 Staff Physician, Otolaryngology. Family Health Centers of San Diego
07/2012-06/2013 Disability Examiner, Otolaryngology. VA San Diego Healthcare System

CONSULTATION ROLES

2026 Kerecis, Key Opinion Leader

LEADERSHIP DEVELOPMENT

2001 Eagle Scout
2026 AAO-HNSF Physician Leadership Institute, led by WittKieffer

PROFESSIONAL RECOGNITION & HONORS

2022	Elected Disease Team Leader – UCSD Moores Cancer Center, Head & Neck Oncology
2022	UCSD Academy of Clinician Scholar's Whitehill Award (Otolaryngology)
2022	Teacher of the Year, from the UCSD Division of Plastic Surgery
2021	San Diego's Top Doctors list
2021	Best Paper Nomination. IEEE Int'l Conf on Robotics and Automation (ICRA) 2021
2020	UCSD Otolaryngology Teaching Award
2018-20	UCSD Hispanic Center of Excellence (HCOE) Faculty Development Program
2017	Stanford Otolaryngology, Fellow of the Year Teaching Award
2016	Highest In-Service Exam Score, UC San Diego Otolaryngology
2015	American Head and Neck Society, Poster Award
2014	American Thyroid Association Trainees' Grant Program for the Annual Meeting
2006	Alpha Chi National Honor Society, New Mexico State University
2005-06	Tau Beta Pi Engineering Honor Society, New Mexico State University
2001	Dominico Marquez Leadership Award, St. Pius X High School Varsity Soccer
2001	Eagle Scout

MEMBERSHIP IN PROFESSIONAL SOCIETIES

2024-present	New Mexico Cancer Research Alliance (NMRCA), Class A Participant
2023-present	New Mexico Medical Society Vice Presiding Officer (2024-26), AMA YPS delegate (2023-24), CME Committee (2023-26)
2023-present	New Mexico State University, Electrical & Computer Engineering Academy
2022-present	New Mexico Society of Otolaryngology
2013-present	American Head & Neck Society, Member
2014-present	Triological Society
2014-present	American College of Surgeons, Associate Fellow New Mexico Chapter, Member (2023-present) San Diego Chapter, Member (2019-22) Thyroid & Parathyroid Ultrasound, Verification Level III (Feb 2016)
2010-present	American Academy of Otolaryngology-Head and Neck Surgery, Member
2023-2025	American Medical Society, Alternate Delegate from New Mexico (I-23)
2018-2025	IEEE member
2022-2024	International Society of Fluorescence Guided Surgery (ISFGS), Member
2017-2024	Society of Robotic Surgery
2014-2024	American Thyroid Association, Associate Member
2023	UNM Comprehensive Cancer Center, Associate Member
2022	Moores Cancer Center, UC San Diego, Member
2017-22	Clinical and Translational Research Institute (CTRI) of UC San Diego

OTHER EXTRAMURAL PROFESSIONAL ACTIVITIES

- Core member. CHEER—Center for Health Equity, Education & Research. UC San Diego. 2020-2022
- Scientific Review Committee, Reviewer & led Proffered Papers (functional outcomes). 11th International Conference on Head & Neck Cancer, July 8-12, 2023. Montréal, QC Canada
- Panelist. AHNS Webinar – The Pandemic Papers: TORS Research and Practice Innovation. April 20, 2022
- Panelist. AHNS Webinar – Review of Novel Imaging Trials in Cancer Surgery. Sept 23, 2021

- Scientific Review Committee, Reviewer. AHNS 10th International Conference on Head & Neck Cancer. 2021
- Section Chair. IEEE International Conference on Robotics and Automation, Chair of Scientific Sections: Motion Planning for Surgical Robotics and Surgical Robotics. June 3, 2021
- Summer Research Fellow, Brady Urological Institute, Johns Hopkins, 2007
- Training Predoctoral Students Clinical Research Program, T32 (RR023253-02; Advisor: Neil R. Powe, Johns Hopkins), 2007
- Massachusetts Institute of Technology, Minority Summer Research Program, Electrical & Biological Engineering (PI: Jongyoon Han, PhD), 2005

LECTURES & PRESENTATIONS

INTERNATIONAL

- Background & Overview: Precision Optical Intraoperative Guidance for Head & Neck Surgery & Fluorescence-Enabled Intraoperative Nerve Identification - *Phase 3 Pivotal Data*. Panel at AHNS 2026 International Conf, July 20, 2026.
- Safety and Efficacy of Bevonescien with the REVEAL-475 System for Intraoperative Fluorescent Visualization of Nerves in Head and Neck Surgery. **Orosco RK**, Rajasekaran K, Bouvet M, Albergotti G, Adibay, Swanson M, Randolph GW, Keiner A, Curry JM, Olinde L, Singer M, Richmon J, Gillis A, Newman J. Podium at AHNS 2026 International Conf, July 20, 2026.
- Intraoperative Nerve-Specific Fluorescence Imaging (Panelist) – Session: Surgical Innovation in Imaging. Proffered papers moderator. 11th International Conf on Head & Neck Cancer, July 8-12, 2023. Montréal, QC Canada
- 4th European Head and Neck Society, Robotic Conference. Lecture: Technological developments and translational research in robotic surgery, Session Moderator: Expert & Emerging Indications; Panelist: Radiological evaluation of anatomical landmarks. Paris, France. Dec 2-3, 2021.
- 3rd European Head and Neck Society Workshop on Robotic Surgery in Head and Neck. Lecture: Telerobotics and semiautomated robots in medicine London, England. Nov 21-22, 2019.
- International Congress of ORL-HNS 2019. Semi-Autonomy in Robotic Surgical Systems. Seoul, Korea. April 25-27, 2019
- Yokohama City University Otolaryngology Grand Rounds. The frontline of head & neck surgery practice in the US. Yokohama, Japan. April 24, 2019
- Color-coded surgery. 4th Annual International Medical Students Meeting. Lisbon, Portugal. March 17, 2013

REGIONAL & NATIONAL

- Futuristic Robotic Surgery. San Diego Chapter of the American College of Surgeons. April 2024.
- Immediate Jaw Reconstruction. Course Faculty. Sponsored by KLS Martin. San Diego, CA. March 23, 2024.
- Oropharynx Cases (Panelist). Vanderbilt Fall CME Meeting. Nashville, TN. Sept 29, 2023.
- Mouth Lesions. New Mexico Medical Society, Noon Zoom. Feb 16, 2023.
- Shared Decision-Making Between the MD and SLP in Head and Neck Cancer Care. ASHA (American Speech-Language-Hearing Association) Annual Conference. Nov 17-19, 2022
- Nerve Specific Dyes – Normal Tissue Identification, at Penn Medicine's Precision Surgery Intraoperative Molecular Imaging, 3rd Clinical Trials Update. Philadelphia, PA (zoom). Nov 11, 2022
- Imaging and robotic innovations. New Mexico Society of Otolaryngology— 7th Annual Balloon Fiesta Otolaryngology Symposium (Karl Horn Lectureship). Sept 30, 2022

- Head & Neck Case. Cedars Sinai's Eerie ENT Conference. Panelist: Head & neck cases. Los Angeles, CA. Oct 24, 2020
- Essentials Practice Webinar: Head & neck reconstruction. American Academy of Facial Plastic Surgery, COSM. June 25, 2020
- Head & Neck Case. Cedars Sinai's Eerie ENT Conference. Panelist: Head & neck cases. Los Angeles, CA. Oct 26, 2019
- Head & Neck Case. Cedars Sinai's Inaugural Eerie ENT Conference. Panelist: Head & neck cases. Los Angeles, CA. Oct 27, 2018
- Saving the warrior: Shifting the paradigm of combat casualty care in modern warfare with implementation of semiautonomous telesurgical robots. Stanford Medicine X Conference. Sept 2017. <https://www.youtube.com/watch?v=bTyWVKd221k>.

LOCAL/INSTITUTIONAL

- Head & Neck Reconstruction. New Mexico State Assembly of the Association of Surgical Technologists—Spring Ahead Conference. Albuquerque, NM. March 1, 2025.
- Head & Neck Reconstruction. Albuquerque VA Otolaryngology Grand Rounds. April 15, 2024
- Larynx Reconstruction & Partial Laryngectomy. UNM Otolaryngology Resident Didactics. Sept 18, 2023.
- Neck Dissection. UNM Otolaryngology Resident Didactics. Sept 6, 2023.
- Basics of Otolaryngology. UNM Surgery Clerkship lecture. Feb 15, Mar 29, May 15, Aug 21, 2023.
- Maximizing Function after Head & Neck Reconstruction. UNM Speech Pathology conference. Jan 26, 2023.
- Tracheostomy tubes & Laryngectomy tubes. UCSD Jacobs Medical Center Nursing Lecture. Aug 3, 2022
- TORS navigation. UC Irvine Otolaryngology Grand Rounds, April 20, 2022
- Advanced head and neck reconstruction. UC San Diego Radiology Grand Rounds, April 19, 2022
- Fluorescence Guided Surgery—Nerve Imaging. Moores Cancer Center Solid Tumor Therapeutics Retreat, Nov 5, 2021
- From manuscripts to grants. UCSD Otolaryngology, Professor Conference, Feb 12, 2021
- Head and neck boards and tumor boards. UCSD Otolaryngology, Professor conference, June 12, 2020
- Oral cavity reconstruction. Microsurgery Webinar for Nurses. UCSD. April 27, 2020
- Pushing the robotic surgery envelope: Head and neck reconstruction. UCSD Otolaryngology, Professor conference, April 8, 2020
- Remote robotic surgery and reconstruction. UCSD Plastic Surgery Grand Rounds, April 8, 2020
- Head & Neck Cancer. UCSD General Internal Medicine Grand Rounds, Sept 11, 2019
- UCSD Oto Resident Boot Camp. Lecture: Free flap monitoring and care pathway. July 12, 2019
- Sentinel Lymph Node Biopsy for Melanoma. Greenway Superficial Anatomy and Cutaneous Surgery Course, Aug 8, 2019
- Next-generation and futuristic robotics. UC San Diego, Oto Grand Rounds, June 14, 2019
- Mandible reconstruction-adult & pediatric. UCSD Otolaryngology Residency Professor's Conference. San Diego, CA. Oct 26, 2018
- Head & neck cancer overview. UCSD Plastics resident session. San Diego, CA. Oct 22, 2018
- Head & neck microvascular reconstruction – Adult and pediatric. Rady, Pediatric Oto Grand Rounds. San Diego CA. Oct 19, 2018
- Neck masses. UCSD Surgery 401 student case conference. Sept 19, 2018
- Free flap monitoring and care pathway. UCSD Otolaryngology Resident Boot Camp, July 13, 2018
- Otolaryngology Introduction. UCSD SOM, Careers in Medicine Elective - MED 240. June 13, 2018

- Head & Neck Recon-Fundamentals, Flap Physiology, & Postop Management. UC San Diego, Oto Teaching Conf, June 8, 2018.
- Osseocutaneous forearm free flap in head and neck reconstruction. UC San Diego, Plastic Surgery Grand Rounds, Jan 17, 2018.
- Free flap management and the radial forearm free flap. UC San Diego, Otolaryngology Teaching Conference, Oct 27, 2017
- Stanford medical student head and neck lectures (2016-2017)
- Surgical salvage for recurrent head and neck cancer. UC San Diego, Otolaryngology Grand Rounds, Feb 12, 2016
- A prognostic molecular model in head and neck cancer. UC San Diego, Otolaryngology Grand Rounds, Feb 14, 2014
- Lateral pharyngotomy. UC San Diego, Otolaryngology Grand Rounds, January 9, 2015
- Dynamic facial reanimation. UC San Diego, General Surgery Grand Rounds, October 22, 2014
- Biomarkers and targeted therapies in head and neck cancer. UC San Diego, General Surgery Grand Rounds, February 20, 2013
- Biomarkers and targeted therapies in head and neck squamous cell carcinoma. UC San Diego, Oto Grand Rounds, Jan 11, 2013
- Outcomes research and otolaryngology. UC San Diego, Oto Grand Rounds, Oct 14, 2011
- Failed exstrophy repair. Brady Department of Urology Grand Rounds, Johns Hopkins, Baltimore, MD. July 30, 2009

SCHOLARLY ACHIEVEMENTS

- ORCID: 0000-0002-7885-4327
- PubMed Bibliography: <https://www.ncbi.nlm.nih.gov/myncbi/1doGl1ttHmO5-/bibliography/public/>
- Google citations page: <https://scholar.google.com/citations?user=u6HtSG0AAAAJ&hl=en>

Cited by	All	Since 2021
Citations	4177	3095
h-index	38	31
i10-index	80	74

BOOK CHAPTERS

1. Mandibulotomy (Ch 10) & Segmental and Marginal Mandibulectomy (Ch 11), **Orosco RK** & Chang S. Surgical Techniques in Otolaryngology - Head & Neck Surgery: Head & Neck Surgery, David Goldenberg, Ed. Robert T Sataloff. Jaypee Brothers Medical Publishers, 2016.
2. Management of the Salvage Laryngectomy Defect and Complications. **Orosco RK** & Rosenthal EL. Open Access Atlas of Otolaryngology, Head & Neck Operative Surgery. University of Cape Town 2016. <https://vula.uct.ac.za/access/content/group/ba5fb1bd-be95-48e5-81be-586fbaeba29d/Management%20of%20salvage%20laryngectomy%20defects%20and%20related%20wound%20complications.pdf>
3. Facial Pain Syndromes. **Orosco R** & Coffey C. Gland Preserving Surgery—A problem-based approach. Springer 2018. Eds. Gillespie, Walvekar, Schaitkin, Eisele.
4. Tam K, Saraswathula A, Holsinger FC, **Orosco, RK**. Oropharyngeal Cancer: Contemporary Management. In “Otolaryngology – Head and Neck Surgery: Principles & Practice.” Ed(s): Paparella MM, Selaiman da Costa S, Fagan J. Jaypee Brothers Medical Publishers, 2018.
5. **Orosco RK**, Orloff LA. Physics and Principles of Ultrasound. *Ultrasonography of the Head and Neck*. Springer, Cham, 2019.

6. Non-Neoplastic Salivary Gland Disease. Embryology and Anatomy of the Salivary Glands. Malignant Salivary Gland Tumors. Benign Salivary Gland Neoplasms. Goldenberg: Handbook of Otolaryngology: Head and Neck Surgery, 3rd ed. Elsevier, 2023.

SCHOLARLY ARTICLES IN REFEREED JOURNALS

1. Novak TE, Costello JP, **Orosco R**, Sponseller PD, Mack E, Gearhart JP. Failed exstrophy closure: Management and outcome. J Pediatr Urol. 2010 Aug, 6(4):381-4. PMID: 19906564
2. Guzzo TJ, Dluzniewski P, **Orosco R**, Platz EA, Partin AW, Han M. Prediction of mortality after radical prostatectomy by Charlson Comorbidity Index. Urology. 2010 Sep, 76(3):553-7. PMID: 20627284
3. Baradaran N, Cervellione RM, **Orosco R**, Trock BJ, Mathews RI, Gearhart JP. Effect of failed initial closure on bladder growth in children with bladder exstrophy. J Urol. Oct 2011, 186(4):1450-4. PMID: 21855949
4. **Orosco RK**, Wang T, Byrne PJ. Xeroderma Pigmentosum in an African American. ORL J Otorhinolaryngol Relat Spec. 2011,73(3):162-5. PMID: 21577039
5. **Orosco RK**, Talamini J, Chang DC, Talamini MA. Surgical malpractice in the United States, 1990-2006. Journal of the American College of Surgeons. 2012 Oct, 215(4):480-8. PMID: 22676963
6. **Orosco RK**, Weisman RA, Chang DC, Brumund KT. Total laryngectomy – National and regional case volume trends 1998-2008. Otolaryngol Head Neck Surg. 2013 Feb,148(2):243-8. PMID: 23124923
7. Guthrie CC, Karnezis TT, **Orosco RK**, Bishop ML, Davidson TM. The effect of anterior palatine blocks on bleeding in hereditary hemorrhagic telangiectasia nasal surgery. Laryngoscope. 2013 Nov,123(11):2598-600. PMID: 23670536
8. McCutcheon BA, **Orosco RK**, Chang DC, Salazar FR, Talamini MA, Maturo S, Magit A. Outcomes of isolated basilar skull fracture: Readmission, meningitis, and cerebrospinal fluid leak. Otolaryngol Head Neck Surg. 2013 Dec,149(6):931-9. PMID: 24135209
9. Raheem OA, **Orosco RK**, Davidson TM, Lakin C. Clinical predictors of nocturia in the sleep apnea population. Urol Ann. 2014, 6(1):31-5. PMID:24669119
10. Hauff SJ, Raju SC, **Orosco RK**, Gross AM, Diaz-Perez JA, Savariar E, Nashi N, Hasselman J, Whitney M, Myers JN, Lippman S, Tsien RY, Ideker T, Nguyen QT. Matrix-metalloproteinases in head and neck carcinoma – Cancer genome atlas analysis and fluorescence imaging in mice. Otolaryngol Head Neck Surg. 2014 Oct,151(4):612-8. PMID: 25091190
11. Buen FM, **Orosco RK**, Solomon JP, Husseman J. A rare oral tongue lesion: Pleomorphic adenoma with osseous differentiation. ORL J Otorhinolaryngol Relat Spec. 2014, 4(2). PMID: none
12. **Orosco RK**, Hussain T, Brumund KT, Oh DK, Chang DC, Bouvet M. An analysis of age and disease status as predictors of thyroid cancer-specific mortality using the Surveillance, Epidemiology, and End Results database. Thyroid. 2014 Nov 4. PMID: 25369076
13. Gross AM, **Orosco RK**, Shen JP, Egloff AM, Carter H, Hofree M, Choueiri M, Coffey CS, Lippman SM, Hayes DN, Cohen EE, Grandis JR, Nguyen QT, Ideker T. Multi-tiered genomic analysis of head and neck cancer ties TP53 mutation to 3p loss. Nat Genet. 2014 Aug 3. PMID: 25086664
14. Raju SC, Hauff SJ, Lemieux AJ, **Orosco RK**, Gross AM, Nguyen LT, Savariar E, PhD, Moss W, Whitney M, Cohen E, Lippman SM, Tsien RY, Ideker T, Advani SJ, Nguyen QT. Combined TP53 mutation/3p loss correlates with decreased radiosensitivity and increased matrix-metalloproteinase activity in head and neck carcinoma. Oral Oncol. 2015 Feb 27. PMID: 25735654

15. **Orosco RK**, Lin HW, Bhattacharyya N. Ambulatory thyroidectomy: A multistate study of revisits and complications. *Otolaryngol Head Neck Surg.* 2015 Mar 31. PMID: 25829390
16. **Orosco RK**, Lin HW, Bhattacharyya N. Safety of adult ambulatory direct laryngoscopy: Revisits and complications. *JAMA Otolaryngol Head Neck Surg.* 2015 Jul 2. PMID: 26135845
17. Tomlin J, **Orosco RK**, Boles S, Tipps A, Wang HY, Husseman J, Wieduwilt M. Successful treatment of multifocal histiocytic sarcoma occurring after renal transplantation with cladribine, high-dose cytarabine, G-CSF, and mitoxantrone (CLAG-M) followed by allogeneic hematopoietic stem cell transplantation. *Case Rep Hematol.* 2015;2015:728260. PMID: 26167311
18. Lemieux A, Kedarisetty S, Raju S, **Orosco R**, Coffey CS. Lymph node yield as a predictor of survival in pathologically node negative oral cavity carcinoma. *Otolaryngol Head Neck Surg.* 2015 Dec 23. PMID: 26701177
19. **Orosco RK**, Hecht AS, Kedarisetty S, Chang DC, Coffey CS, Weissbrod PA. Predictors of high-risk and low-risk oral HPV infection in the United States. *Laryngoscope.* 2015 Dec 28. PMID: 26707355
20. **Orosco RK**, Savariar E, Weissbrod PA, Diaz-Perez JA, Bouvet M, Tsien R, Nguyen QT. Molecular targeting of papillary thyroid carcinoma with fluorescently-labeled ratiometric activatable cell penetrating peptides in a transgenic murine model. *J Surg Oncol.* 2016 Feb;113(2):138-43. PMID: 26799257
21. Kedarisetty S, **Orosco RK**, Hecht AS, Chang DC, Weissbrod PA, Coffey CS. Concordant oral and vaginal human papillomavirus infection in the United States. *JAMA Otolaryngol Head Neck Surg.* 2016 Mar 24. PMID: 27010384
22. Moss WJ, Pang J, **Orosco RK**, Weissbrod PA, Brumund KT, Weisman RA, Brigger MT, Coffey CS. Esophageal dilation in head and neck cancer patients: A systematic review and meta-analysis. *Laryngoscope.* 2017 May 12. doi: 10.1002/lary.26618. Review. PMID: 28498643
23. Chen MM, **Orosco RK**, Lim GC, Holsinger FC. Improved transoral dissection of the tongue-base with a next-generation robotic surgical system. *Laryngoscope.* 2017 Jul 6. PMID: 28681924
24. Chen MM, **Orosco RK**, Harris JP, Porter JB, Rosenthal EL, Hara W, Divi V. Predictors of readmissions after head and neck cancer surgery: A national perspective. *Oral Oncol.* 2017 Aug; 71:106-112. PMID: 28688676
25. Schoppy DW, Rhoads KF, Ma Y, Chen MM, Nussenbaum B, **Orosco RK**, Rosenthal EL, Divi V. Measuring Institutional Quality in Head and Neck Surgery Using Hospital-Level Data: Negative Margin Rates and Neck Dissection Yield. *JAMA Otolaryngol Head Neck Surg.* 2017 Oct 5. PMID: 28983555
26. Chen MM, Harris JP, **Orosco RK**, Sirjani D, Hara W, Divi V. Association of time between surgery and adjuvant therapy with survival in oral cavity cancer. *Otolaryngol Head Neck Surg.* 2018 Jan 1 PMID: 29313448
27. Harris JP, Chen MM, Orosco RK, Sirjani D, Divi V, Hara W. Association of survival with shorter time to radiation therapy after surgery for US patients with head and neck cancer. *Otolaryngol Head Neck Surg.* 2018 Jan 1. PMID: 29522072
28. **Orosco RK**, Tapia VJ, Califano JA, Clary B, Cohen EEW, Kane C, Lippman S, Messer K, Molinolo A, Murphy J, Pang J, Sacco A, Tringale KR, Wallace A, Nguyen QT. Positive Surgical Margins in the 10 Most Common Solid Cancers. *Sci Rep.* 2018 Apr 9. PMID: 29632347
29. Moss W, Finegersh A, Pang J, Califano J, Coffey CS, **Orosco RK**, Brumund KT. Needle biopsy of routine thyroid nodules should be performed using a capillary action technique with 24-27 gauge needles: A systematic review and meta-analysis." *Thyroid.* 2018 Jun 5. PMID: 29742978

30. Laccourreye O, **Orosco RK**, Rubin F, Holsinger FC. The styloglossus muscle: A critical landmark in the surgical anatomy of the lateral oropharynx. *Eur Ann Otorhinolaryngol Head Neck Dis*. 2018 Oct 16. PMID: 30341015
31. Tam K, **Orosco RK**, Colevas AD, Bedi N, Starmer HM, Beadle BM, Holsinger FC. Cost Comparison of Treatment for Oropharyngeal Carcinoma. *Laryngoscope*. 2018 Nov 28. PMID: 30485445
32. Nakayama M, Holsinger FC, **Orosco RK**. Hybrid supracricoid partial laryngectomy with cricohyoidoepiglottopexy via transoral robotic surgery. *Laryngoscope*. 2018 Dec 19. PMID: 30569529
33. Pang J, Ching HH, Sobel RH, **Orosco RK**, Califano JA, Wang RC, Sanghvi P, Coffey CS. Implementation of submandibular gland transfer: A multi-institutional study of feasibility and time to treatment. *Head Neck*. 2019 Feb 5. PMID: 30723965
34. **Orosco RK**, Tam K, Nakayama M, Holsinger FC, Spriano G. Transoral supraglottic laryngectomy using a flexible, next-generation robotic surgical system. *Head Neck*. 2019 Feb 18. PMID: 30775823
35. Richter F, **Orosco R**, Yip MC. Motion Scaling Solutions for Improved Performance in High Delay Surgical Teleoperation. *IEEE Rob & Autom*. In *2019 Intl Conf on Robotics and Automation (ICRA)*, pp. 1590-1595. IEEE, 2019. PMID: none
36. Narayanan AM, Finegersh A, Chang MP, Ogo J, **Orosco RK**, Moss WJ. The profound oral cavity cancer burden in the United States Commonwealth of the Northern Mariana Islands: A global health opportunity. *Am J of Oto*. 2019 Jul PMID: 31351740
37. Moss WJ, Finegersh A, Narayanan A, Gillard D, Califano J, Brumund KT, Coffey CS, **Orosco RK**. Characterizing Posterior Neck Masses: A Single-Institution Retrospective and Systematic Review. *Ear Nose Throat J*, 2019 Oct 13. PMID: 31608686
38. Jafari A, Shen S, Qualliotine JR, **Orosco RK**, Califano JA, Deconde AS. Impact of Margin Status on Survival After Surgery for Sinonasal Squamous Cell Carcinoma. *Int Forum Allergy Rhinol*. 2019;00:1-7. PMID: 31436890
39. **Orosco RK**, Hussain T, Noel JE, Chang D, Dosiou C, Mittra E, Divi V, Orloff LA. Radioactive iodine in differentiated thyroid cancer: a national database perspective. *Endocr Relat Cancer*. 2019 Aug 1. PMID: 31443087
40. Nakayama M, **Orosco RK**, Holsinger FC, Spriano G, Succo G, De Virgilio A, Oridate N. Endoscopic Transoral Hybrid Supracricoid Partial Laryngectomy with Cricohyoidoepiglottopexy. *Ann Otol Rhinol Laryngol*. 2020 Mar;129(3):273-279. PMID: 31672022
41. Holsinger FC, Magnuson JS, Weinstein GS, Chan JYK, Starmer HM, Tsang RKY, Wong EWY, Rassekh CH, Bedi N, Hong SSY, **Orosco R**, O'Malley BW Jr, Moore EJ. A Next-Generation Single-Port Robotic Surgical System for Transoral Robotic Surgery: Results From Prospective Nonrandomized Clinical Trials. *JAMA Otolaryngol Head Neck Surg*. 2019 Sep 19. PMID: 31536129
42. Qualliotine J, **Orosco RK**. Self-removing passive drain to facilitate post-operative care via telehealth during the COVID-19 pandemic. *Head Neck*. 2020 Apr 29. PMID: 32347997
43. Narayanan AM, Yogesh A, Chang MP, Finegersh A, **Orosco RK**, Moss WJ. A Survey of Areca (Betel) Nut Use and Oral Cancer in the Commonwealth of the Northern Mariana Islands. *Hawaii J Health Soc Welf*. 2020 Apr 1;79(4):112-116. PMID: 32328582

44. Finegersh A, Moss WJ, Saddawi-Konefka R, Faraji F, Coffey CS, Califano JA, Brumund KT, **Orosco RK**. Meta-analysis of risk of occult lymph node metastasis in the irradiated, clinically NO neck. Head Neck. 2020 May 19. PMID: 32432819
45. **Orosco R**, Lurie B, Matsusaki T, Funk EK, Divi V, Holsinger FC, Hong S, Richter F, Das N, Yip M. Compensatory motion scaling for time delayed robotic surgery. Surg Endosc. 2020 Jun 8. PMID: 32514831
46. Narayanan AM, Finegersh AF, Chang MP, **Orosco RK**, Moss WJ. Oral cavity cancer outcomes in remote, betel nut-endemic Pacific Islands. Ann Otol Rhinol Laryngol. 2020 Jun 16. PMID: 32546006
47. Nakayama M, **Orosco R**, Holsinger C, Sano D, Oridate N. Laryngeal Cancer: Recent Paradigm Shift in Larynx Preservation. Int J of Head and Neck Science 4(2): 45-51, 2020 PMID: none
48. Crawford KL, Jafari A, Qualliotine JR, Stuart E, DeConde AS, Califano JA, **Orosco RK**. Elective neck dissection for T3/T4 cN0 sinonasal squamous cell carcinoma. Head Neck. 2020 Aug 24. PMID: 32830895
49. Stefanko DP, Lin G, **Orosco RK**, Vavinskaya V. Benign Pseudoglandular Mesothelial Cell Inclusions in Cervical Lymph Nodes of a Patient with Multiple Malignancies: Case Report and Review of Literature. AJSP: Reviews & Reports: 11/12 2020 - Volume 25 - Issue 6 - p 298-301 doi: 10.1097/PCR.0000000000000416 PMID: none
50. Bransky N, Iyer NR, Cannon SM, Tyan AH, Mylavaram P, **Orosco R**, Hom DB, Moazzam AA. Three Rare Concurrent Complications of Tertiary Hyperparathyroidism: Maxillary Brown Tumor, Uremic Leontiasis Ossea, and Hungry Bone Syndrome. J Bone Metab. 2020 Aug;27(3):217-226. PMID: 32911586
51. Li Y, Richter F, Lu J, Funk EK, **Orosco RK**, Zhu J, Yip MC. SuPer: A Surgical Perception Framework for Endoscopic Tissue Manipulation with Surgical Robotics. IEEE Robotics and Automation Letters. 2020 Jan 31. PMID: None
52. Mays AC, Yarlaga B, Achim V, Jackson R, Pipkorn P, Huang AT, Rajasekaran K, Sridharan S, Rosko A, **Orosco RK**, Coughlin AM, Wax MK, Shnayder Y, Spanos WC, Farwell DG, McDaniel LS, Hanasono MM. Examining the relationship of immunotherapy and wound complications following flap reconstruction in head and neck cancer patients. Head Neck. 2021 Jan 8. PMID: 33417293
53. Panuganti BA, Finegersh A, Flagg M, Tu X, **Orosco R**, Weissbrod PA, Califano J. Prognostic Significance of HPV Status in Laryngeal Squamous Cell Carcinoma: A Large-Population Database Study. Otolaryngol Head Neck Surg. 2020 Dec 1 PMID: 33256521
54. Funk EK, Weissbrod P, **Orosco RK**, Horgan S, Califano JC. Preclinical experience with a novel single port platform for transoral surgery. Surg Endosc. 2021 Mar 12. PMID: 33712940
55. DeVries J, Gold K, Sharabi A, Hu J, **Orosco RK**. Scirrhus carcinoma: A previously undescribed tumor of the oral cavity. Clin Case Rep. 2021 May 4;9(5):e03864. PMID: 34084475
56. Voora R, Kotha NV, Kumar A, Banegas M, Panuganti B, Weissbrod PA, Steward T, Rose B, **Orosco RK**. Association of Race and Healthcare System with Disease Stage and Survival in Veterans with Larynx Cancer. Cancer. 2021 Apr 2. PMID: 33799314
 - a. Associated Editorial: Thomas GR. "Racial disparity in head and neck cancer." Cancer. 2021.

57. Li SS, Mangialardi ML, Nguyen QT, **Orosco RK**, Honart JF, Qassemyar Q, Kolb FJ. The Chimeric Scapulodorsal Vascularized Latissimus Dorsi Nerve Flap for Immediate Reconstruction of Total Parotidectomy Defects With Facial Nerve Sacrifice: Building a New Program and Preliminary Results From 25 Cases. *Annals of Plastic Surgery*, May 2021. PMID: 33976066
58. Finegersh A, Voora RS, Panuganti B, Faraji F, Holsinger FC, Brumund KT, Coffey C, Califano J, **Orosco RK**. Robotic surgery may improve overall survival for T1 and T2 tumors of the hypopharynx: an NCDB cohort study. *Oral Oncol*. 2021 Jul 27;121:105440. PMID: 34329867
59. Voora RS, Panuganti B, Flagg M, Kumar A, Qian AS, Kotha NV, Qiao EM, Weissbrod PA, Rose B, **Orosco RK**. Salvage Following Transoral Laser Microsurgery for Early Glottic Cancer in National Veteran Database. *Laryngoscope*. 2021 Jul 23. PMID: 34296772
60. Azhdam AM, Borreli M, **Orosco R**. Contralateral Pectoralis Flap for Repair of Spinal Hardware-Associated Fistula. *Ear Nose Throat J*. 2021 Sep;100(6_suppl):884S-887S. PMID: 34550017
61. Voora RS, Stramiello JA, Sumner WA, Mohammadzadeh A, Fouania J, Ramsey C, Blumenfeld L, Sacco AG, Mell LK, Califano JA, **Orosco RK**. Quality Improvement Intervention to Reduce Time to Post-operative Radiation in Head and Neck Free Flap Patients. *Head Neck*. 2021 Sep 7. PMID: 34492135
62. Stramiello J, Nuyen B, Saraswathula A, Blumenfeld L, Divi V, Rosenthal E, **Orosco R**, Starmer H. Timing of postoperative oral feeding after head and neck mucosal free flap reconstruction. *Laryngoscope Investig Otolaryngol*. 2021 Sep 9;6(5):1031-1036. PMID: 34667846
63. Kotha NV, Voora RS, Qian AS, Kumar A, Qiao EM, Stewart TF, Rose BS, **Orosco RK**. Prognostic Utility of Pretreatment Neutrophil-Lymphocyte Ratio in Advanced Larynx Cancer. *Biomark Insights*. 2021 Oct. PMID: 34658619
64. Voora RS, Panuganti B, Flagg M, Nelson T, Kumar A, Kotha NV, Qiao EM, Qian AS, Stewart TF, Rose BS, Califano J, Weissbrod PA, Mell LK, **Orosco RK**. Patterns of Failure after Definitive Treatment of T4a Larynx Cancer. *Otolaryng Head Neck Surg*. 2021 Oct 5. PMID: 34609937
65. Barba P, Stramiello J, Funk EK, Richter F, Yip MC, **Orosco RK**. Remote Telesurgery in Humans: A Systematic Review. *Surg Endosc*. 2022 Mar 4. PMID: 35246740
66. Jeong AR, Forbes K, **Orosco RK**, Cohen EEW. Hereditary oral squamous cell carcinoma associated with CDKN2A germline mutation: A case report. *J Otolaryngol Head Neck Surg*. 2022 Feb 5;51(1):5. PMID: 35123577
67. Finegersh A, Said M, Deconde A, Hwang PH, Holsinger FC, **Orosco RK**. Open and endoscopic surgery improve survival for squamous and non-squamous cell nasopharyngeal carcinomas: an NCDB cohort study. *Int Forum Allergy Rhinol*. 2022 Mar 21. PMID: 35313077
68. Panuganti BA, Voora R, Coffey C, **Orosco R**, Weissbrod PA, Califano J. Transoral laser microsurgery with neck dissection versus radiotherapy for T2N0 supraglottic cancer. *Laryngoscope*. 2022 Apr 19. PMID: 35562187
69. Bernstein JD, Bracken DJ, Abeles SR, **Orosco RK**, Weissbrod PA. Surgical wound classification in otolaryngology: A state-of-the-art review. *World Journal of Otorhinolaryngology-Head and Neck Surgery*. 2022. PMID: 35782398
70. Voora RS, Qian AS, Kotha NV, Qiao EM, Meineke M, Murphy JD, **Orosco RK**. Frailty Index as a Predictor of Readmissions in Patients with Head and Neck Cancer. *Otolaryngol Head Neck Surg*. 2022 Jul;167(1):89-96. PMID: 34520305
71. Dallalzadeh LO, Qualliotine JR, Crawford KL, Liu CY, Kikkawa DO, Brumund KT, **Orosco RK**, Korn BS. Orbital floor reconstruction via autologous radial forearm free flap with palmaris longus tendon. *Orbit*. Jun 6, 2022. PMID: 35666706
72. Leung KL, Segal RM, Bernstein JD, **Orosco RK**, Reid CM. Surgical ergonomics: Assessment of surgeon posture and impact of training device during otolaryngology procedures. *Laryngoscope Investig Otolaryngol*. Aug 2022. PMID: 36258864

73. Soliman SI, Faraji F, Pang J, Mell LK, Califano JA, **Orosco RK**. Adjuvant Radiotherapy in Surgically Treated HPV-Positive Oropharyngeal Carcinoma with Adverse Pathological Features. *Cancers*. Sept 2022 PMID: 36139676
74. Nakayama M, Wada T, Isono Y, Sano D, Nishimura G, Oridate N, Holsinger FC, **Orosco R**. Narrow-field supracricoid partial laryngectomy: Procedure development and initial clinical experiences. *Auris Nasus Larynx* 2023 Jun;50(3):403-409 PMID: 36216666
75. Qualliotine J, Archambault K, Kristalis T, **Orosco RK**. Carbon Dioxide Laser Sequestrectomy for Osteoradionecrosis: A case series. *Photobiomodul Photomed Laser Surg*. 2023 Feb;41(2):73-79. PMID: 36780577
76. Crawford KL, Lee YJ, Hom M, Rosenthal EL, **Orosco RK**, Nguyen QT. Identification of Degenerated Murine Facial Nerves With Fluorescence Labeling After Transection Injury. *Otolaryngol Head Neck Surg*. 2023 Feb 9. PMID: 36758958
77. Crawford KL, Nguyen QT, **Orosco RK**. Race and Sex Demographics in the Surgical Management of Facial Nerve Palsy. *Laryngoscope Investig Otolaryngol*. 2023 Apr 21;8(3):639-644. PMID: 37342124
78. Faraji F, Kumar A, Voora R, Soliman SI, Cherry D, Courtney T, Finegersh A, Guo T, Cohen E, Califano JA, Mell L, Rose B, **Orosco RK**. Transoral Surgery in HPV+ Oropharyngeal Carcinoma: Oncologic Outcomes in the Veterans Affairs System. *Laryngoscope*. 2023 May 31. PMID: 37255050
79. La Monte OA, Lee JH, Soliman SI, Saddawi-Konefka R, Harris JP, Coffey CS, **Orosco RK**, Watson D, Holliday MA, Faraji F, Hom DB. Simulation-Based Workshop for Emergency Preparedness in Otolaryngology. *Laryngoscope Investig Otolaryngol*. 2023 Aug 24;8(5):1159-1168. PMID: 37899850
80. Ostrander BT, Meller L, Harmon M, Archambault K, Kristallis T, Hammer D, **Orosco RK**. Free Flap Jaw Reconstruction with Dental Implantation: A Single-Institution Experience. *Head & Neck*. 2024 Feb 29. PMID: 38420709
81. Ostrander BT, Massillon D, Meller L, Chiu ZY, Yip M, **Orosco RK**. The current state of autonomous suturing: a systematic review. *Surg Endosc*. 2024 Mar 29. PMID: 38553597
82. Duncan S, Finegersh A, **Orosco RK**, Wu N, Brumund KT, Califano JA, Coffey CS, Moss WJ. Clinicopathologic Features of Oral Verrucous Carcinoma: A Systematic Review and Meta-Analysis. *Annals of Otology, Rhinology & Laryngology*. 2024. PMID: 39529216
83. Sharma RK, **Orosco RK**, Philips R, Faraji F, Esce AR, Topf MC. Positive Margin Rates in Oral Cavity and Oropharyngeal Malignancies: A National Analysis. *Otolaryngology - Head and Neck Surgery*. 2025 Mar;172(3):922-930. PMID: 39709538
84. Crawford K, Berman E, Whitney MA, Adams S, **Orosco RK**, Nguyen QT. Intraoperative Real-Time Fluorescence Labeling of Degenerated Facial Nerves with Bevonescin. *Plast Reconstr Surg*. 2025 Apr 9. doi: 10.1097/PRS.00000000000012142. PMID: 40208969
85. Lee YJ, **Orosco RK (co-first-author)**, Bouvet M, Richmon JD, Berman BJ, Crawford KL, Hom M, Nguyen QT, Rosenthal EL. Intraoperative nerve-specific fluorescence visualization in head and neck surgery: a Phase 1 trial. *Nat Commun*. 2025 Jul 2;16(1):6060. PMID: 40595556
86. Holsinger FC, Bedi N, Topf MC, Ernst KL, Holmes BJ, Orosco RK, Le QT, Colevas AD, Starmer HM, Beadle BM, Rahman M. T1 Microscopic Oropharyngeal Carcinoma: Revealing the Unknown Primary Through Diagnostic TORS. *Head & Neck*. 2026.

REVIEW ARTICLES AND ARTICLES APPEARING AS CHAPTERS IN EDITED VOLUMES

1. **Orosco RK**, Nguyen QT, Tsien R. Fluorescence imaging in surgery. *IEEE Rev Biomed Eng*. 2013;6:178-87. PMID: 23335674

2. Sacco AG, Coffey CS, Sanghvi P, Rubio GP, Califano J, Athas J, Tamayo GJ, Linnemeyer, K, Barnachea, **Orosco RK**, Brumund KT, Cohen EEW, Gold K, Mell LK, Sharabi A, Daniels GA, Abbott Y, Collins R, Clynch K, Noboa M, Blumenfeld L. Development of Care Pathways to Standardize and Optimally Integrate Multidisciplinary Care for Head and Neck Cancer. *Oncology Issues*. 2018 Nov 2,33(6):28-44. PMID: none
3. **Orosco RK**, Arora A, Jeanon JP, Holsinger FC. Next-Generation Robotic Head and Neck Surgery. *ORL J Otorhinolaryngol Relat Spec*. 2018 Nov 7,80(3-4):213-219. PMID: 30404095
4. Finegersh A, Holsinger FC, Gross ND, **Orosco RK**. Robotic Head and Neck Surgery. *Surg Oncol Clin N Am*. 2019 Jan,28(1):115-128. Review. PMID: 30414677
5. Nakayama M, Holsinger FC, Chevalier D, **Orosco RK**. The Dawn of Robotic Surgery in Otolaryngology-Head and Neck Surgery. *Jpn J Clin Oncol*. 2019 Feb 23. PMID: 30796834
6. Richter F, Zhang Y, Zhi Y, **Orosco R**, Yip MC. Augmented Reality Predictive Displays to Help Mitigate the Effects of Delayed Telesurgery. In 2019 International Conference on Robotics and Automation (ICRA) 2019 May 20 (pp. 444-450). IEEE. PMID: none
7. Richter F, **Orosco RK**, Yip MC (2019) Open-Sourced Reinforcement Learning Environments for Surgical Robotics. *IEEE Robotics and Automation*. arXiv preprint arXiv:1903.02090. 2019 Mar 5. PMID: none
8. Funk EK, Richter F, Park WS, Yip MC, Orosco RK. Robotic autonomy in endocrine surgery. *Ann Thyroid* 2020,5:7. PMID: none
9. Crawford KL, Stramiello JA, **Orosco RK**, Greene JJ. Advances in Facial Nerve Management in the Head & Neck Cancer Patient. *Curr Opin Otolaryngol Head Neck Surg*. 2020 Aug,28(4):235-240. PMID: 32628417
10. Lee YJ, van den Berg NS, **Orosco RK**, Rosenthal EL, Sorger JM. A narrative review of fluorescence imaging in robotic-assisted surgery. *Laparoscopic Surgery* 2021 Jul,5:31. PMID: 34549180
11. Crawford KL, Pacheco FV, Lee YJ, Hom M, Rosenthal EL, Nguyen QT, **Orosco RK**. A Scoping Review of Ongoing Fluorescence-Guided Surgery Clinical Trials in Otolaryngology. *Laryngoscope*. 2021 Oct 11. PMID: 34633092
12. Bou-Samra P, Muhammad N, Chang A, Karsalia R, Azari F, Kennedy G, Stummer W, Tanyi J, Martin L, Vahrmeijer A, Smith B, Rosenthal E, Wagner P, Rice D, Lee A, Abdelhafeez A, Malek MM, Kohanbash G, Barry Edwards W, Henderson E, Skjøth-Rasmussen J, **Orosco R**, Gibbs S, Farnam RW, Shankar L, Sumer B, Kumar ATN, Marcu L, Li L, Greuv V, Delikatny EJ, Lee JYK, Singhal S. Intraoperative molecular imaging: 3rd biennial clinical trials update. *J Biomed Opt*. 2023 May;28(5):050901. PMID: 37193364

OTHER PUBLISHED SCHOLARLY WORKS

1. Nguyen QT, Kwon JK, **Orosco RK**. Hearing loss for musicians. *National Association of Schools of Music, 88th Annual Meeting Proceedings*. May 2013, 101:25-31. PMID: none
2. **Orosco RK**, Cohen EE. Characterizing an ultra-high-risk subset of patients with hypopharynx and larynx cancer – The power of lymph node burden. *Invited Commentary on "Survival impact of quantitative metastatic lymph node burden in hypopharyngeal and laryngeal cancer"*. *JAMA Oncology*. 2017 Nov 30. PMID: 29192300
3. **Orosco RK**, Califano JA. HPV status, like politics, is local--Evaluating p16 staining and a new staging system in a Dutch cohort of oropharynx cancer. *Invited Editorial on "Invited Editorial on: Evaluation of the 8th TNM classification on p16-positive oropharyngeal squamous cell carcinomas in the Netherlands, and the importance of additional HPV DNA-testing by Nauta et al."*. *Ann Oncol*. 2018 May 1,29(5):1089-1090. PMID: 29788169

4. Chan JYK, Tsang RKY, Yeung KW, Abdullah V, Ku P, Wong EWY, Mehta N, **Orosco RK**, Holsinger FC. There is no routine head and neck exam during the COVID-19 pandemic. *Head Neck*. 2020 Apr 16. PMID: 32298028
5. Richter F, Shen S, Liu F, Huang J, Funk E, **Orosco R**, Yip MC. Autonomous Robotic Suction to Clear the Surgical Field for Hemostasis using Image-based Blood Flow Detection. *IEEE Robotics and Automation Letters (RA-L)*. 2021 April;6(3): 1383-90. PMID: none
6. Richter. F, Lu J, **Orosco R**, Yip MC. Robotic Tool Tracking under Partially Visible Kinematic Chain: A Unified Approach. *IEEE Transactions on Robotics*. 2021. PMID: none
7. Richter F, Funk EK, Park WS, **Orosco RK**, Yip MC. From Bench to Bedside: The First Live Robotic Surgery on the dVRK to Enable Remote Telesurgery with Motion Scaling. In 2021 International Symposium on Medical Robotics (ISMR) (pp. 1-7). IEEE. PMID: none
8. Richter F, **Orosco RK**, Yip M. Image Based Reconstruction of Liquids from 2D Surface Detections. *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*, pp. 13811-13820. 2022. PMID: none
9. Mallen St. Clair J, **Orosco RK**. Editorial: Considerations in the Surgical Management of HPV-positive Oropharyngeal SCC. *Frontiers in Oncology*. 2023. PMID: 37384295
10. Joglekar N, Liu F, **Orosco R**, Yip M. Suture thread spline reconstruction from endoscopic images for robotic surgery with reliability-driven keypoint detection. 2023 IEEE International Conference on Robotics and Automation (ICRA), 2023. PMID: none
11. Funk E, Ostrander BT, Park WS, Richter F, Yip M, Weissbrod PA, **Orosco RK**. Open Robotic Thyroidectomy in a Porcine Model as a Tool for Translating Novel Robotic Technologies. Available at SSRN 4603334. PMID: none
12. Miao A, Lin S, Lu J, Richter F, Ostrander B, Funk E, Orosco R, Yip MC. HemoSet: The First Blood Segmentation Dataset for Automation of Hemostasis Management. In 2024 International Symposium on Medical Robotics (ISMR), IEEE. PMID: none

INTERVIEWS & EDITORIALS HIGHLIGHTING WORKS

13. 1. Alume Biotechnologies hopes its glowing molecules make surgery safer and easier, by Jonathan Wosen, May 9, 2020. *San Diego Union Tribune*. <https://www.sandiegouniontribune.com/business/biotech/story/2020-05-09/san-diego-biotech>
14. 2. US FDA Allows Trial to Proceed for Alume Biosciences' Nerve Imaging Candidate. May 4, 2020. *PRNewswire*. <https://www.prnewswire.com/news-releases/us-fda-allows-trial-to-proceed-for-alume-biosciences-nerve-imaging-candidate-301051743.html>
15. 3. Interview: Meet the Professor – Dr. Ryan K. Orosco: robotic surgery will make surgery safer and help to enable challenging procedures. Received: 13 June 2019; Accepted: 18 June 2019; Published: 26 August 2019. *Annals of Thyroid*: <http://aot.amegroups.com/article/view/4982/html>. doi: 10.21037/aot.2019.06.03. Interview
16. 4. Overcoming Delays in Long Distance Surgery, by Liezel Labios. Feb 5, 2019. https://ucsdnews.ucsd.edu/pressrelease/overcoming_delays_in_long_distance_surgery
17. 5. Da Vinci Sp Efficient Alternative to da Vinci Si with Transoral Anatomy, by Amy E. Hamaker, Jan 7, 2019. <https://www.enttoday.org/article/da-vinci-sp-efficient-alternative-da-vinci-si-transoral-anatomy/2/?singlepage=1>
18. 6. Live TV interview with Lauren Phinney. Topic: Human Papillomavirus, cancer, and vaccination. *KUSI News San Diego*. June 7, 2018.
19. 7. Simply counting positive lymph nodes may predict death from head, neck cancer, by Marilyn Larkin. <http://www.mdalert.com/news/article/simply-counting-positive-lymph-nodes-may-predict-death-from-head-neck-cancer>. Accessed Dec 7, 2017. Editorial

20. 8. Women with Oral HPV Also Usually Have Vaginal HPV, by Rachael Rettner.
<http://www.livescience.com/54160-oral-vaginal-hpv-infections.html>, accessed March 26, 2016. Interview
21. 9. Dual-Site HPV Infections Rare, But Risky for New Partners, by Sarah Wickline Wallan.
<http://www.medpagetoday.com/InfectiousDisease/STDs/56906>, accessed Mar 26, 2016. Editorial
22. 10. Dual and Concordant Vaginal and Oral HPV Infections in Women, by Marie Benz MD FAAD.
<http://medicalresearch.com/author-interviews/dual-concordant-vaginal-oral-hpv-infections-women/22853/>, accessed March 26, 2016. Interview
23. 11. Radioactive Iodine Improves Disease-Specific Survival in Advanced Well-Differentiated Thyroid Carcinoma. Oncology Daily Digest Practice Update. Oct 30, 2014.
<http://www.practiceupdate.com/news/6258>, accessed Nov 2014. Interview
24. 12. Radioactive iodine improved survival in differentiated thyroid carcinoma. Healio, HemeOnc Today. <http://www.healio.com/hematology-oncology/head-neck-cancer/news/online/%7B1f986614-e05b-4697-9d89-b909429e5d47%7D/radioactive-iodine-improved-survival-in-differentiated-thyroid-carcinoma>, accessed Oct 2014. Interview
25. 13. Malpractice payments vary widely by state: Findings spotlight flawed system. Physician Risk Management, 2013 Jan; 1(7):83. Interview
26. 14. Medical risk management: The global issue of legal claims (cover story). Guillermin J. AOSpine InSpine, 2012 Dec; 8(3):10-17. Interview
27. 15. Medical liability payouts for surgeries vary widely by state. Gallegos A. American Medical News. Online Oct 29, 2012. <http://www.ama-assn.org/amednews/2012/10/29/prsb1029.htm>, accessed Oct 2012. Interview
28. 16. Surgical Malpractice Claims Drop, But Pay-Outs Increase. Helwick C. Medscape Medical News. Nov 14, 2011. <http://www.medscape.com/viewarticle/753494>, accessed Nov 2013. Editorial

CLINICAL TRIALS

National and site Principal Investigator on all three pivotal (Phase 1–3) trials of intraoperative fluorescence-guided nerve visualization technology, including two Phase 3 studies completed in 2025.

ALM-488 for Intra-Operative Visualization of Nerves in Head and Neck Surgery
Completed Nov 2025
Phase 3. ClinicalTrials.gov Identifier: NCT05377554
Role: site-PI and national PI

Bevonescien for Intra-Operative Nerve Visualization in Head and Neck Surgery
Completed Nov 2025
Phase 3. ClinicalTrials.gov Identifier: NCT06227585
Role: site-PI and national PI

A Study of ALM-488 to Highlight Nerves in Patients Undergoing Head & Neck Surgery
Completed (June 2020 – Aug 2021).
Phase: 1/2. ClinicalTrials.gov Identifier: NCT04420689
Role: site-PI and national PI

GRANT AND CONTRACT FUNDING

COMPLETED

2021-22 American Cancer Society Pilot Grant

- Tissue Modeling in Transoral Robotic Cancer Surgery
Amount: \$49,262 (12/20/2021 – 12/19/2022). Duration: 12 months
PI: **R Orosco**
- 2021-22 UC San Diego Altman Clinical & Translational Research Institute (ACTRI) -- SUSTAIN
(Supporting Under-represented Scholars in Translational and Interdisciplinary
Networks) Award – Translational Robotic Surgery Research
Amount: \$120,000, 50% effort (March 2021-Feb 2022). Duration: 12 months
PI: **R Orosco**
- 2020 UC San Diego Academic Senate – Bridge Funding
Motion scaling and augmented reality for time delayed robotic surgery
Award amount: \$35,531.73. Duration: 1 year. PI: **R Orosco**
- 2018 UC San Diego ACTRI – Galvanizing Engineering in Medicine (GEM)
Developing Methods to Optimize Accuracy, Efficiency, and Safety in Telerobotic
Surgery
Award amount: \$60,000. Duration: 12 months. Co-PI's: **R Orosco** & M Yip
- 2018 UC San Diego Head & Neck Research Committee grant
Dysphagia home exercise program adherence and functional outcomes in patients with
head and neck cancer: Comparing traditional and mobile device-based delivery models
Award amount: \$13,500. Duration: March 2018 (one year, renewable for a second
year)
PI: L Blumenfeld, Co-I: **R Orosco** & P Weissbrod
- 2017 Rapid Innovation Fund (RIF) Award. FY17 AMEDD Advanced Medical Technology
Initiative (AAMTI)
United States Army Medical Research and Material Command (USAMRMC),
Telemedicine and Advanced Technology Research Center (TATRC)
Award amount: \$35,000. Duration: June 2017 - Sept 2017. PI: E Wirtz, UCSD site co-
I's: **R Orosco** & M Yip
- 2012-13 T32 NIH/NIDCD Ruth L. Kirschstein National Research Training Award,
2T32DC000028-21. UC San Diego, Department of Surgery, Division of Otolaryngology.
Mentor: Quyen T. Nguyen, MD, PhD
- 06-07/2007 T32 - Training Predoctoral Students Clinical Research Program, 5T32RR023253-02
Johns Hopkins University, Advisor: Neil R. Powe

AWARDED BUT DECLINED

- 2024 UNM Comprehensive Cancer Center, Pilot Grant
Molecular Mechanisms of 3q Amplification in Head & Neck Squamous Cell Carcinoma
Metastasis.
Amount: \$10,000. Duration: 12 months. (Awarded, but deferred for logistical reasons)
PI: **R Orosco**. Co-I's: Avinash Sahu, Viswanathan Palanisamy

JOURNAL REVIEW – AD HOC

2026	Head & Neck, Microsurgery
2024	Head & Neck, Ear Nose & Throat Journal, BMC Surgery, International Archives of Otorhinolaryngology, Artificial Intelligence Surgery
2023	Head & Neck, Technology in Cancer Research & Treatment, (IEEE/RSJ) International Conference on Intelligent Robots and Systems, Journal of Robotic Surgery, International Journal of Telemedicine and Applications
2022	Head & Neck, PLOS ONE, Journal of Otolaryngology-Head & Neck Surgery, International Journal of Medical Robotics and Computer Assisted Surgery
2021	Head & Neck, Journal of Clinical Endocrinology & Metabolism, Computer Methods in Biomechanics and Biomedical Engineering
2020	Head & Neck, Scientific Reports, Laryngoscope, Oral Oncology, Annals of Surgical Oncology, Technology in Cancer Research & Treatment, Patient Preference & Adherence, Technology in Cancer Research & Treatment, Journal of Otolaryngology—Head & Neck Surgery, SN Comprehensive Clinical Medicine, Laryngoscope-Investigative Otolaryngology, Journal of Surgical Oncology
2019	Head & Neck, Clinical Cancer Research, Computational and Structural Biotechnology Journal, Cancer, Laryngoscope-Investigative Otolaryngology
2018	Head & Neck, Technology in Cancer & Treatment, Clinical Epidemiology, Oral Oncology, Cancer Prevention Research, American Journal of Otolaryngology Head and Neck Surgery, Journal of Pain Research
2017	Head & Neck, Cancer Epidemiology, Biomarkers & Prevention, Scientific Reports, PLOSone
2016	Head & Neck
2013	Oncotarget, European Journal of Surgical Oncology, Case Reports and Images in Oncology
2012	Audiology & Neurotology

TEACHING AND EDUCATION

- UNM SOM Surgery Clerkship. Otolaryngology Basics Lecture. 2023: May 15, Aug 21, Dec 4. 2024: Dec 3
- UNM Dept of Anesthesiology, Annual hands-on airway course. Lecturer. 2023, 2024, 2025.
- UNM SOM Surgery Clerkship. Suturing workshop. Jan 9, 2024
- Faculty for UNM SOM course: Medicine in NM. Mentee: Luis Martinez. Oct 14 - Nov 10, 2024
- UNM SOM Career Explorations (ENT). Learning Central. Lectures Jan 3, 2023 & Jan 7, 2024
- Course faculty, Southwest Region Hands-on Boot Camp Course: Responses to Otolaryngology Emergencies. San Diego (UCSD), CA. Aug 2023
- Hands on course for mandible reconstruction with fibula free flap, for UNM Otolaryngology residents. Lecture and hands-on course instruction. April 27, 2023. UNM
- Transoral Robotic Surgery, for UNM Otolaryngology residents. Lecture and hands-on course instruction. Jan 26, 2023. UNM
- Course faculty, Southwest Region Hands-on Boot Camp Course: Responses to Otolaryngology Emergencies. San Diego (UCSD), CA. Aug 2022
- Lecture and hands-on instructor: Airway management. UCSD SOM Transition to Residency Course. March 25, 2022
- UCSD SURG 496 Interdisciplinary Head and Neck Oncology Rotation (supervising physician for Rohith Voora). 2021
- Preceptor – UCSD SURG 225 Pre-Clinical Preceptorship in Surgery (2021-2022)
- Faculty participant – UCSD SURG 411 & 413 (2017-2022)

- Lab proctor: UCSD SOM Anatomy (head and neck), 2021-2022
- Course faculty, Southwest Region Hands-on Boot Camp Course: Responses to Otolaryngology Emergencies. San Diego (UCSD), CA. Aug 2021
- Balboa Microvascular Surgery Course, Faculty, Balboa Research Vivarium, April 23-26 2018
- Multidisciplinary Head and Neck Cancer Care in the Era of Innovation, Program Director. UC San Diego, March 23-24, 2018.
- Bay Area Neck Dissection & Free Flap Course, Course Faculty. Stanford, CA. Dec 9-10, 2017
- American College of Surgeons, Ultrasound Instructor for Thyroid, Parathyroid, & Neck Ultrasound Course. Stanford, June 2017
- Simulation-Based Fiberoptic Endoscopic Evaluation of Swallowing (FEES) Course, Instructor. Stanford, April 21st & 22nd, 2017
- Stanford/UCSF Otolaryngology resident neck dissection day. Feb 4, 2017
- Stanford Otolaryngology resident transoral robotic surgery training day. Jan 26, 2017
- Peer Advising Program, Advisor, Johns Hopkins School of Medicine. 2007 - 2010
- Incentive Mentoring Program, Mentor, Paul L. Dunbar H.S., Baltimore, MD. 2006 – 2012

CURRICULUM DEVELOPMENT, EDUCATIONAL, OR ADMINISTRATIVE POSITIONS

- Organizing & Scientific Review Committee. SANDIA 2026 – UNM Dept of Surgery
- Medical Director, Oromaxillofacial Service Line, UNMH, Dec 2025-current.
- Organizing & Scientific Review Committee. SANDIA 2025 – UNM Dept of Surgery
- 10th Annual Balloon Fiesta Otolaryngology Symposium. Course Co-Chair. Oct, 2025
- Organizing Committee. 10th Annual UNM Surgery & Ophthalmology Research Symposium. 2024
- 9th Annual Balloon Fiesta Otolaryngology Symposium. Course Co-Chair. UNM Oct, 2024
- UNM Clinician Advisory Group (CAG). Jan 2024 – Leader of Surgery sub-group.
- UNM HSC Strategic Priority Workforce Development Implementation Teams
 - o NMVAHCS UNMHSC Strategic Advisory Group March 2023 – 2026
 - o Economic Development. March 2023 – 2025
 - o Lifecycle Lift. October 2023 – 2025
- UCSD SURG433 Course director. Surgery: Sub-Internship in Otolaryngology. 2018-22
- Course co-director (2020, 2021, 2022) and faculty instructor (2023), Southwest Region Hands-on Boot Camp Course: Responses to Otolaryngology Emergencies. San Diego (UCSD), CA.
- Led UCSD Otolaryngology Resident Boot Camp, July 10, 2020
- Led UCSD/Navy Thyroid Ultrasound Training Day. Lecture: Physics of Ultrasound. Aug 9, 2019
- Led UCSD Otolaryngology Resident Boot Camp, July 12, 2019
- Led UCSD Otolaryngology Resident Boot Camp, July 13, 2018

UNDERGRADUATE STUDENT

- Faculty mentor: UCSD Health Professions Mentorship Program (Jan 2022 – Oct 2022)
- List of mentees:
 - o Neil Mahto – Albuquerque Academy H.S., Johns Hopkins University (biomedical engineering)
 - o Jake Gonzalez – UC San Diego undergraduate student, research mentee.

MEDICAL STUDENT MENTORING

- UNM SOM - Medicine in New Mexico course, faculty sponsor (Luis Martinez, Oct/Nov 2024)
- List of mentees:
 - o Luis Martinez (Matched in Otolaryngology at Univ of Arizona, starting July 2025)
 - o Eric Ellorin, MD – UC San Diego medical student, Robot Lab research.

- o Gabriela Sendek, MD – UC San Diego medical student, Hispanic Center of Excellence (URM in Medicine) mentorship program, 2020. Current: Resident Physician, Department of Surgery, Yale School of Medicine, New Haven, CT.
- o Patrick Barba, MD – UC San Diego medical student, Hispanic Center of Excellence (URM in Medicine) mentorship program, 2020. Current: Resident Physician, Otolaryngology – Head & Neck Surgery, UCSF.
- o Rohith Voora, MD – UC San Diego medical student, 2019-21; awarded 2020-21 ACTRI Clinical and Translational Research Training Award under mentorship of Orosco. Current: Chief Resident (PGY-5), Otolaryngology, UC San Diego.
- o Evelyn Ross, MD – UC San Diego medical student, Hispanic Center of Excellence (URM in Medicine) mentorship program, 2019-2020.
- o Yu-Jin Lee, MD – Stanford medical student, research mentee, 2016-17. Current: Head & Neck Surgery Fellow, University of Pittsburgh.
- o Kenric Tam, MD – Stanford medical student, research mentee, 2016-17. Current: Head and Neck Service, Memorial Sloan Kettering Cancer Center, New York, NY.
- o Viridiana Tapia, MD – UC San Diego medical student, research mentor and advisor, 2014-17. Current: Anesthesiologist, Sharp HealthCare, San Diego, CA.

RESIDENT MENTORING

- List of mentees (alphabetical):
 - o Quinton Blount, MD – UNM Otolaryngology resident
 - o Ashley Dorneden, MD - Otolaryngology resident (grad 2024), Fellowship in Head & Neck Surgery at Johns Hopkins (2024), Private Practice.
 - o Antoinette Esce, MD – Otolaryng resident (grad 2024), Fellowship in Palliative Care at Mt. Sinai (2024-25), Fellowship in Head & Neck Surgery at Memorial Sloan Kettering (2025-26)
 - o Farhoud Faraji, MD, PhD – UC San Diego Otolaryngology resident, 2019-2025. Current: Senior Otolaryngology resident, UC San Diego.
 - o Andrey Finegersh, MD, PhD – UC San Diego Otolaryngology resident, 2015-2020. Current: Assistant Professor, Otolaryngology – Head & Neck Surgery, Stanford University.
 - o Aurora Maes, MD – UNM Family Medicine resident
 - o Kris Merrill, MD – UNM Otolaryngology resident
 - o Brian Nuyen, MD – UC San Diego & Stanford resident; research mentee 2017, clinical mentee 2015 & 2017. Current: Clinical Faculty, Otolaryngology – Head & Neck Surgery, Stanford University.
 - o Joseph Osorio, MD, PhD – UC San Diego Department of Neurosurgery, Hispanic Center of Excellence peer mentorship program (URM in Medicine), 2021-2022. Current: Associate Professor of Clinical Neurological Surgery, UC San Diego.
 - o John Pang, MD – UC San Diego Otolaryngology resident, 2014-2021. Current: Private practice, Otolaryngology, Oregon.
 - o Allison Price, MD – Otolaryngology resident (grad 2027), Fellowship in Head & Neck Surgery at Toronto (2027-28)
 - o Jesse Qualliotine, MD – UC San Diego Otolaryngology resident, 2019-2024. Current: Assistant Professor In Residence, Otolaryngology, UC San Diego.
 - o Robert Saddawi-Konefka, MD, PhD – UC San Diego Otolaryngology resident, 2019-2025. Current: Assistant Professor, Otolaryngology – Head & Neck Surgery, UC San Diego.
 - o Joshua Stramiello, MD – UC San Diego Otolaryngology resident, 2017-2022. Current: Otolaryngologist, U.S. Air Force (active duty).

GRADUATE STUDENT / POSTDOCTORAL MENTORING

- List of mentees:
 - Florian Richter, PhD – UC San Diego Engineering graduate student; PhD thesis committee, 2021. Current: CTO & Founder, ArtemisAI Labs (surgical robotics).
 - Nikhil Das, PhD – UC San Diego Engineering graduate student; PhD thesis committee, 2020. Current: Machine Learning Scientist, Lytx, Inc.
 - Timon Hussain, MD – Postdoctoral research mentee, 2012-2017. Current: Senior Otolaryngologist (PD Dr. med.), Universitätsklinikum Essen, Germany.

FACULTY MENTORING

- Faculty participant: University of California-wide Resident Webinar: Finding an academic job after fellowship. Dec 8, 2021
- UNM Dept of Surgery IMPACT Faculty Mentorship Program, 2025, 2026
 - List of mentees:
 - Erin Howell, MD. UNM trauma surgeon, Assistant Professor
 - Liat Shama, MD. UNM otolaryngologist (rhinology), Associate Professor

SERVICE

UNIVERSITY, SOM, HSC ADMINISTRATIVE DUTIES AND COMMITTEES

- Lead Committee Member, Precision Oncology Alliance, Caris Life Sciences/UNM. 2026-present
- Organizing & Scientific Review Committee. SANDIA 2025 - Surgical Advancements in New Developments and Innovative Applications research symposium.
- Organizing Committee. 10th Annual Surgery and Ophthalmology Research Symposium. 2024
- Grant reviewer, UNM Surgery – Surgery Research Investigator Award (SRIA). 2023 & 2024
- Review panel, UCSD ACTRI Galvanizing Engineering in Medicine (GEM). July 2022
- Review panel, UCSD ACTRI SOM 2021 MedGap research program
- UCSD Medical School Electives Committee. 2019-22
- ACGME Program Evaluation Committee, Faculty member, UCSD Otolaryngology. 2018-22
- ACGME Program Evaluation Committee, Resident member, UCSD Otolaryngology. 2015-16

LOCAL, STATE, REGIONAL, NATIONAL COMMITTEES

- New Mexico Medical Review Commission, volunteer reviewer. 2024, 2025, 2026
- American Medical Association, New Mexico Delegate (Young Physician Section). 2023-24
- New Mexico Medical Society. Vice Presiding Officer (2024-26) & CME Committee (2024-2025)
- AAO-HNS Head and Neck Surgery Education Committee, consultant (non-voting). 2020-22
- AHNS Value & Quality of Care Service Committee (2018-2021)
- IEEE Robotics and Automation Society, Technical Committee for Surgical Robotics (2018 –2023)

ANCILLARY ACTIVITIES

- | | |
|-----------|--|
| 2006-2012 | Incentive Mentoring Program, Mentor, Paul L. Dunbar H.S., Baltimore, MD |
| 2007-2010 | Peer Advising Program, Advisor, Johns Hopkins School of Medicine |
| 2006-2009 | Medical Student Curriculum Committee, Member, Johns Hopkins School of Medicine |
| 2007 | Baltimore Awareness Service Experience Day, Coordinator, Johns Hopkins |
| 2006-2007 | Chick Webb Elementary School Program, Tutor, Baltimore, MD |
| 2002-2006 | New Mexico State University Men's Club Soccer Team |