

University of Missouri School of Medicine

Otolaryngology—Head and Neck Surgery



RESIDENCY LEADERSHIP

Susie Early, MD

Residency Program Director
earlye@health.missouri.edu

Laura M. Dooley, MD, FACS

Assistant Residency Program Director
dooleyl@health.missouri.edu

Robert P. Zitsch III, MD , FACS

Chair
zitschr@health.missouri.edu

Program Coordinator

enttraining@missouri.edu

One Hospital Drive MA314
Columbia, MO 65212
573.882.7935

www.ent.missouri.edu



Facebook and Twitter handle:
MizzouENT

WELCOME TO MIZZOU

On behalf of the Department of Otolaryngology—Head and Neck Surgery, we welcome you to Mizzou. The otolaryngology residency program has been here since the first official trainee in 1970. Initially formed as a division of general surgery, the practice became its own Department in 2004. We have graduated residency alumni who can be found throughout the United States in traditional, hospital, military, and academic practices.

Clinically, the Department provides the premier otolaryngic care for patients of central Missouri. Our surgeons, in tight coordination with our endocrinology colleagues, deliver nearly all the surgical thyroid and parathyroid care for the hospital system. The full complement of oncologic ablative and reconstructive surgery is performed within our Department. With the only fellowship trained neurotologist in this region, our Hearing and Balance Center is the cochlear implant provider for patients of mid-Missouri, along with comprehensive audio and vestibular assessment and rehabilitation. Our allergy center is a major provider for sublingual and subcutaneous immunotherapy for pediatric and adult patient with aeroallergens. Our Faculty collectively have extensive fellowship training in head and neck oncology, microvascular surgery, laryngology, otolaryngic allergy, facial plastic and reconstructive surgery, neurotology, and pediatric otolaryngology.

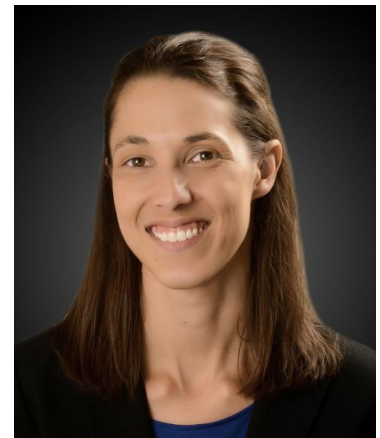
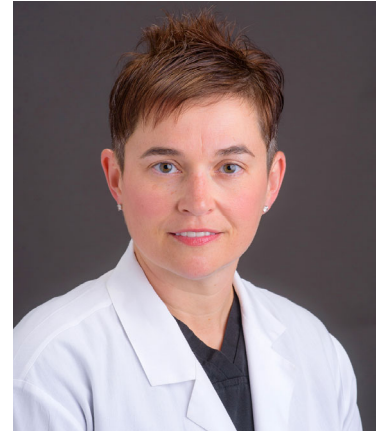
The pride of our Department lies in medical education. Our program provides a balanced experience of surgical exposure, clinic exposure, as well as time for cognitive development through didactic conferences, workshops, and individual study. The Department has made large investments in a new conference room, new Resident offices and completed a quarter million dollar renovation of our temporal bone lab to provide enhanced otologic training environment for our Residents. Resident otolaryngology education doesn't exist purely within the confines of our campus. The Department funds and facilitates opportunities for Residents to attend external courses, conferences, and workshops to hear from experts around the country.

Discovery and innovation play a growing role in our enterprise. We have two well-funded basic and translational science research Faculty members in our Department. We have several ongoing industry funded clinical trial projects that fuel our enterprise. These endeavors—in addition to a multitude of clinical projects—are facilitated by two research coordinators who help enormously with facilitate grant acquisition, IRB clearance, and patient recruitment.

Our clinicians are involved in shaping the practice of medicine and otolaryngology at the University of Missouri and beyond. Our Faculty hold leadership positions in the American Academy of Otolaryngology—Head and Neck Surgery and other national subspecialty associations as well as throughout University of Missouri Health Care and the School of Medicine.

Columbia is on of the top cities to live in the country. Being at the south edge of the Campus, we are exposed to the beauty and brilliance of our University. We have a vibrant downtown and cultural scene, and great trails and parks.

Thanks for your interest in our program and we hope to see you in Columbia in the future!



Susie Early, MD
Residency Program Director

Laura M. Dooley, MD, FACS
Assistant Residency Program Director



GENERAL INFORMATION

Our program alternately matriculates two or three Residents per year. Applications are submitted through ERAS and residency slots are filled through The Match, organized by NRMP. We receive over 300 applications per year and interview approximately 50 candidates. Although applicants are encouraged to have a strong academic record and research experience, we search out for other factors that make outstanding Residents and physicians: strong work ethic, collegial demeanor, and self-motivation. These are not factors that can be easily represented by a single metric and therefore we employ holistic application review. By this, we do not employ a USMLE cut off or specific point algorithm to select applicants for interview, as we feel that such methodology fails to acknowledge the diversity of experience each candidate possesses.

Great physicians come from a variety of backgrounds. Our Department seeks to recruit, train, and nurture a team of Residents that reflects our diverse national population.



RESIDENCY TRAINING OUTLINE

Residency training provides a graduated experience with increased responsibilities as you progress through the training process. While rotations change based on Resident complement and other circumstances, below is a general guide of what our Residents are doing year by year.

PGY1: With six months of ENT now built into the first year, Residents get early surgical and patient management experience within otolaryngology. The other six months are off of the ENT service, but provide exposure to general surgery, ICU care, emergency medicine, anesthesia, and vascular surgery.

PGY2: The PGY2 year is split between rotations at the VA, on the university otolaryngology service (primarily pediatric otolaryngology), well as part of the head & neck team.

PGY3: The PGY3 year incorporates two months of research, time at the VA as the midlevel Resident, and remaining months on the head & neck and university otolaryngology service.

PGY4: An additional one month of research provides the ability to tie up loose ends on bigger projects as well as start smaller projects to complete during the remainder of the residency. Additional focused exposure to otology is acquired through beginning rotations with our neurotologist. The remainder of the year is split as chief of the head & neck team. A one-month experience in private practice otology and facial plastics in Springfield, MO is incorporated for some of our senior Residents in their PGY4 or PGY5 year.

PGY5: The PGY5 year is the chief Resident year. Further otologic experience is gained with 4-6 are spent as the chief of the VA service, which allows the greatest autonomy to determine patient care and operative experience. The remainder of time is spent on the university otolaryngology service. Chiefs are responsible for oversight of inpatient consults as well as administrative duties.





MEDICAL TRAINING SITES

Otolaryngology training occurs at three main training sites in Columbia: Women's Hospital, MU Health Care—University Hospital, and the VA. The VA and University Hospital are located across the street from each other, while Women's Hospital is merely a 10 minute drive away. However, a new Women's and Children's Hospital is being built adjacent to University Hospital and is scheduled to open in 2024.

University Hospital is a 247 bed hospital with the only level-one trauma center and helicopter service in central Missouri. It is the site of most inpatient procedures including the larger head and neck procedures or operations performed on medically complex patients. Attached to the University Hospital is the Ellis Fischel Cancer Center, which hosts our oncology clinics.

Three of our outpatient ENT clinics: the Hearing and Balance Center, the ENT Allergy Center, and Columbia ENT are located within blocks of each other. We have full service audiology and vestibular testing, a wide range of allergy testing and treatment options, a pediatric clinic, a multidisciplinary pediatric dysphagia clinic, a cosmetic plastic surgery clinic, and clinics that treat the range of patient issues from professional voice problems to sinus disease. As Missouri is one of the most allergenic states, we have a robust allergy practice that provide subcutaneous and sublingual immunotherapy.

The VA is where our Residents have the opportunity to give back to the veterans in our community. The VA is staffed by many of the same Faculty who cover the University Hospital. The VA experience provides greater Resident autonomy regarding patient care management, with appropriate oversight by Faculty physicians.

Capital Region Medical Center (CRMC) is located in Jefferson City, a 30 minute drive from Columbia. The clinical expansion of our Department to CRMC increases the availability of general ENT services, otologic surgery, thyroid surgery, and allergy management. Here, Residents are afforded increased clinical and surgical experiences.

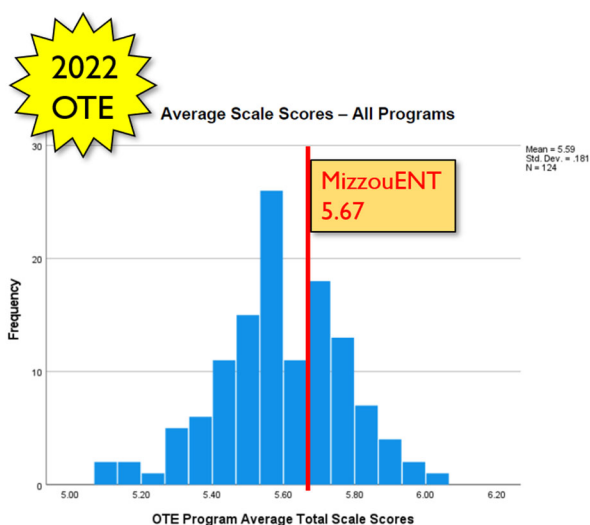
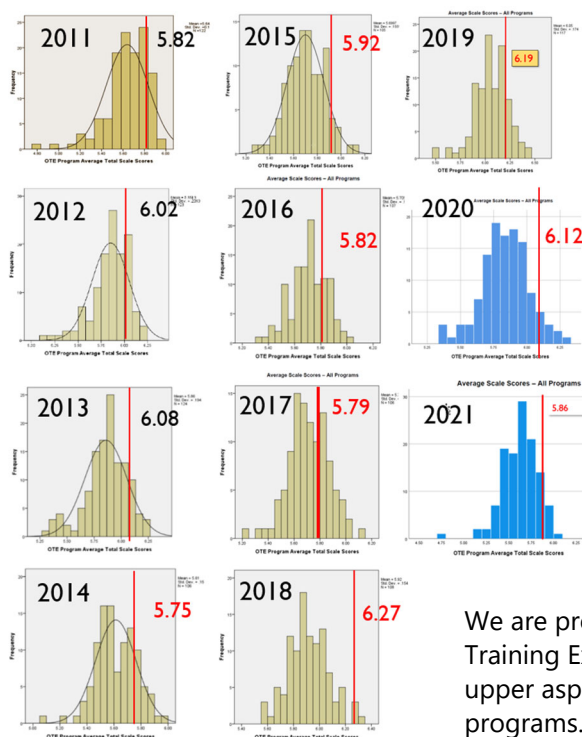
CONFERENCES, CURRICULUM, COURSES

Residency education is accomplished through more than “on-the-job” training. Our program provides a curriculum of educational opportunities that allow physicians to interface academically with otolaryngology topics in multi-faceted ways.

Grand rounds are held Wednesday mornings followed by VA case conference to review upcoming VA cases with Faculty and Resident input. Didactic are held from 4-6 p.m. on Tuesdays and include, but are not limited to, book chapter reviews, hands on labs, journal club and temporal bone drilling.

We believe medical education is more than simply learning about patient care and having medical knowledge. To reflect that, our curriculum incorporates learning about the business of medicine, health care payment and delivery systems, and medical legal issues.

Learning is best achieved with a balance of time spent on clinical experiences, didactic sessions, as well as self-directed study. We hope to have struck the right balance, as our Residents have aggregately scored well in the top half of all training programs on the Otolaryngology Training Exam year after year.



We are proud of our Residents' achievement on the Otolaryngology Training Exam. Every year, our Residents aggregately score in the upper aspect of the bell curve in comparison to other training programs.

Our educational curriculum is enhanced by additional Department-sponsored experiential opportunities. PGY1 or PGY2's participate in the Midwest Otolaryngology Simulation Training bootcamp to gain practical beginning otolaryngology skills. Residents are involved with two regional consortiums that meet yearly to advance knowledge and research within their sub-specialty: the Midwest Head and Neck Cancer Consortium and the Midwest Pediatric ENT Consortium. We also send Residents to a cadaveric trauma course and sinus course.

Our temporal bone drilling lab has been completely refreshed, equipped with eight new drilling stations, flat screen monitors, and new freezer for specimen storage. We are grateful to have an abundant supply of temporal bones available from the Gift of Body Program administered by the Department of Pathology & Anatomical Sciences at the University of Missouri. Residents are immersed in temporal bone drilling sessions throughout the year led by Faculty and invited guest Faculty. Ready-access to the lab affords Residents the opportunity to drill whenever desired, whether in preparation for a case or to further skills.



Key Indicator and Total Tracked Case numbers for our 2022 graduates

	Minimum	National Median (2021)	Average of 2022 graduates
Head & Neck			
Parotidectomy (all types)	15	28	29
Neck Dissection (all types)	27	70	81
Oral Cavity Resection	10	25	26
Thyroid/Parathyroidectomy	22	64	112
Otology/Audiology			
Tympanoplasty (all types)	17	43	57
Mastoidectomy (all types)	15	38	36
Stapedectomy/Ossiculoplasty	10	18	19
FPRS			
Rhinoplasty (all types)	8	27	23
CMF	12	34	43
Flaps and Grafts	20	89	134
General/Peds			
Airway – Pediatric and Adult	20	89	78
Congenital Neck Masses	7	15	12
Sinus	40	92	52
Bronchoscopy	22	63	45

Met/exceeded the RRC Minimum

Matched or Exceeded the Median

TOTAL TRACKED (Resident Supervisor or Resident Surgeon only)

1,794

BENEFITS

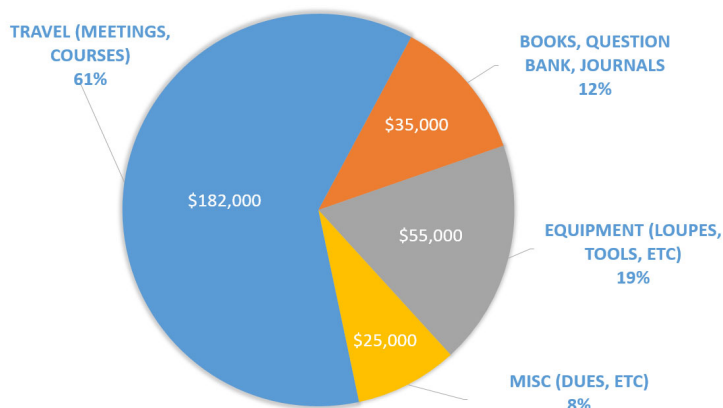
Resident salaries are consistent across specialties at the University of Missouri based upon post-graduate year (2022-2023):

PGY1	\$59,257
PGY2	\$61,436
PGY3	\$63,531
PGY4	\$66,390
PGY5	\$69,393

Equipping Residents with the tools needed for successful development is just as important as the curriculum experience. To springboard new Residents into their career, the Department provides each with the tools of the trade: personalized lab coats, a head mirror, a copy of Bailey's, a tuning fork, pocket otoscope, headlight and loupes.

Resident achievements in clinical and scholarly pursuits are appreciated and recognized by the Department. A **reward points program** has been created that rewards research activity, excellence in service, and excellence in education. Residents can earn up to \$12,500 worth of points, awarded for various accomplishments. While awarded points are weighted towards research endeavors, other pursuits such as committee membership, educational lectures to other Departments, and efforts to further our specialty locally and nationally (committee and organization involvement) are valued. Points can be redeemed for academic travel, books, and other materials that directly enhance education.

CATEGORY OF POINTS SPENDING, 2006-2019



Reward Points



Scholarly activity

Case Reports

Submission: 100
Acceptance: 200*/300**
Total: 300-400 First author

Retrospective review (n>3)

Submission: 200
Acceptance: 500*/600**
Total: 700-800

Major Prospective, Basic Science

Submission: 300
Acceptance: 750*/850**
Total: 1050-1150

Book Chapter

500 pts



Presentations

Poster presentation

Local/regional: 100
National/international: 500

Oral Presentation

Local /regional: 100
National/international: 700



Medical Knowledge

OTE score >90 %tile: 300
80-89 %tile: 150.



Patient care

Positive written attending physician feedback: 25



Problem based learning

1 page synopsis of literature reviewing a particular problem and best practice guidelines, complete with sources: 50



Systems based practice

Leading and completing a Quality Improvement (QI) project: up to 250



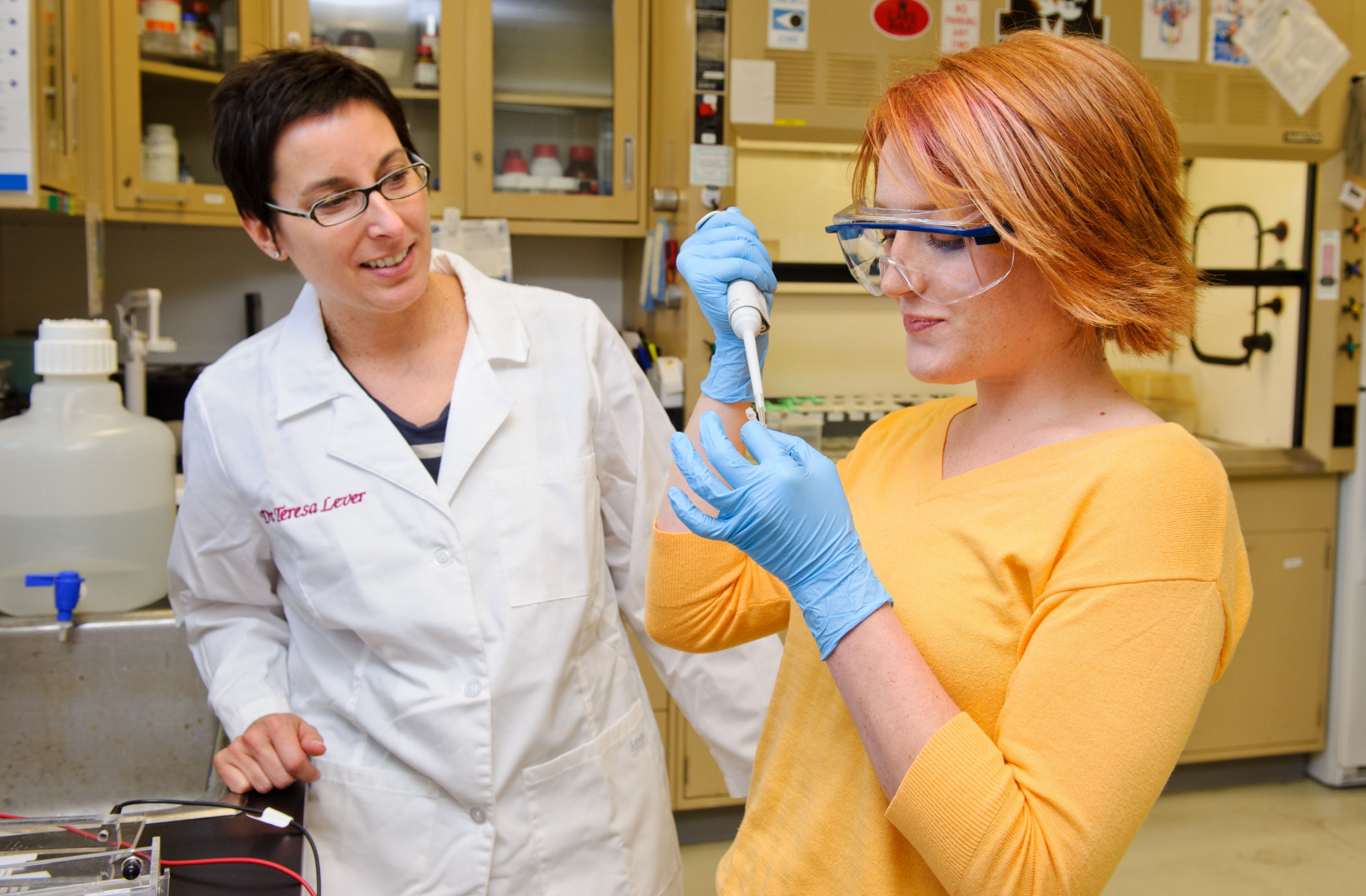
Professionalism

local committees: 50
national committees: 200.



Communication

lecture to medical students/residents, nursing, clinic staff: 100



RESEARCH

There is an abundance of discovery at MU. From case reports to NIH funded translational research, there are options for everyone no matter your research background and interests. Throughout the year, Residents are engaged in investigative projects that provide further insight into the practice of otolaryngology. Dedicated research time is incorporated in the schedule: two months during PGY3, one month during PGY4. This division allows time for larger projects to mature.

While many of the research projects are Resident inspired, each project is supported by a Faculty mentor for intellectual and logistic contributions. There are opportunities for translational and bench science with our two dedicated basic science research Faculty. **Teresa Lever, PhD** has an interest in swallowing and dysphagia. Her lab has developed a murine model of amyotrophic lateral sclerosis, and is studying the effects of serotonin supplementation upon swallow function. **Olga Baker, DDS, PhD** just joined our Faculty. She has research interests in salivary gland issues, including radiation and autoimmune induced xerostomia, and brings a team of personnel from Utah. Both Dr. Lever and Dr. Baker bring a wealth of research experience and NIH-level funding for a variety of projects.

Our Department also participates in various industry sponsored trials in allergy, rhinology, otology, and oncology. For more details, see <https://medicine.missouri.edu/departments/otolaryngology-head-and-neck-surgery/research>.

Resident research efforts are showcased yearly at our Resident Research Forum presented in June. Awards are given for 1st and 2nd place. Successful projects mature to become poster and oral presentations at national meetings, and ultimately become published in major journals. Research endeavors are well recognized and supported.

RECENT JOURNAL PUBLICATIONS

- 1: Tassone P, Caruso C, White M, Tavares Dos Santos H, Galloway T, Dooley L, Zitsch R 3rd, Lester Layfield J, Baker O. The role of matrixmetalloproteinase-2 expression by fibroblasts in perineural invasion by oral cavity squamous cell carcinoma. *Oral Oncol.* 2022 Sep;132:106002. doi: 10.1016/j.oraloncology.2022.106002. Epub 2022 Jun 29. PMID: 35779484.
- 2: Tassone P, Galloway T, Dooley L, Zitsch R 3rd. Orocutaneous Fistula After Oral Cavity Resection and Reconstruction: Systematic Review and Meta-Analysis. *Ann Otol Rhinol Laryngol.* 2022 Aug;131(8):880-891. Epub 2021 Sep 23. PMID: 34553635.
- 3: Murphy ER, Thompson R, Osman KL, Haxton C, Brothers M, Lee L, Warncke K, Smith CL, Keilholz AN, Hamad A, Golzy M, Bunyak F, Ma L, Nichols NL, Lever TE. A Strength Endurance Exercise Paradigm Mitigates Deficits in Hypoglossal-Tongue Axis Function, Strength, and Structure in a Rodent Model of Hypoglossal Motor Neuron Degeneration. *Front Neurosci.* 2022 Jun 30;16:869592. doi: 10.3389/fnins.2022.869592. PMID: 35844238; PMCID: PMC9279620.
- 4: Allen DZ, Challapalli S, Lee KH, Bell CS, Roy S, Bowe S, Balakrishnan K, Chang CWD, Huang Z. Impact of COVID-19 on nationwide pediatric otolaryngology practice: Adenotonsillectomies (TA) and tonsil-related diagnoses trends. *Am J Otolaryngol.* 2022 Jun 11;43(5):103526. doi: 10.1016/j.amjoto.2022.103526. Epub ahead of print. PMID: 35717857.
- 5: Li L, Jasmer KJ, Camden JM, Woods LT, Martin AL, Yang Y, Layton M, Petris MJ, Baker OJ, Weisman GA, Petris CK. Early Dry Eye Disease Onset in a NOD.H-2h4 Mouse Model of Sjögren's Syndrome. *Invest Ophthalmol Vis Sci.* 2022 Jun 1;63(6):18. doi: 10.1167/iovs.63.6.18. PMID: 35727180; PMCID: PMC9233292.
- 6: Noiphithak R, Yanez-Siller JC, Nimmannitya P. Transorbital Approach for Olfactory Groove Meningioma. *World Neurosurg.* 2022 Jun;162:66. Epub 2022 Mar 23. PMID: 35338020.
- 7: Gilley DR, Clark AD, Wieser ME, Bollig CA, Dooley LM, Biedermann GB. Effectiveness of gabapentin in reducing opioid requirements after radiation in head and neck cancer in a single institution. *Head Neck.* 2022 Jun;44(6):1368-1376. doi: 10.1002/hed.27035. Epub 2022 Mar 22. PMID: 35315549.
- 8: Akin R, Gilley D, Tassone P. "Incidentally discovered medullary thyroid carcinoma in the post-operative Graves' patient - A case report". *Am J Otolaryngol.* 2022 May-Jun;43(3):103450. doi: 10.1016/j.amjoto.2022.103450. Epub 2022 Apr 5. PMID: 35429846.
- 9: Wang YY, Hamad AS, Palaniappan K, Lever TE, Bunyak F. LARNet-STC: Spatiotemporal orthogonal region selection network for laryngeal closure detection in endoscopy videos. *Comput Biol Med.* 2022 May;144:105339. doi: 10.1016/j.combiomed.2022.105339. Epub 2022 Feb 28. PMID: 35263687; PMCID: PMC8995389.
- 10: Pletcher SD, Chang CWD, Thorne MC, Malekzadeh S. The Otolaryngology Residency Program Preference Signaling Experience. *Acad Med.* 2022 May 1;97(5):664-668. doi: 10.1097/ACM.0000000000004441. Epub 2021 Oct 5. PMID: 34618735; PMCID: PMC9028299.
- 11: Mueller M, Thompson R, Osman KL, Andel E, DeJonge CA, Kington S, Stephenson Z, Hamad A, Bunyak F, Nichols NL, Lever TE. Impact of Limb Phenotype on Tongue Denervation Atrophy, Dysphagia Penetrance, and Survival Time in a Mouse Model of ALS. *Dysphagia.* 2022 Apr 15. doi: 10.1007/s00455-022-10442-4. Epub ahead of print. PMID: 35426522.
- 12: Wieser ME, Sagalow ES, Givens A, Curry JM, Dooley LM, Galloway TL, Zitsch RP, Tassone PT. Occult Metastases During Salvage Oral Cavity and Oropharyngeal Free Flaps: Oncologic Outcomes. *Otolaryngol Head Neck Surg.* 2022 Apr 5;1945998221090920. doi: 10.1177/01945998221090920. Epub ahead of print. PMID: 35380881.
- 13: Farrokhan N, Holcomb AJ, Dimon E, Karadaghy O, Ward C, Whiteford E, Tolan C, Hanly EK, Buchakjian MR, Harding B, Dooley L, Shinn J, Wood CB, Rohde SL, Khaja S, Parikh A, Bulbul MG, Penn J, Goodwin S, Bur AM. Development and Validation of Machine Learning Models for Predicting Occult Nodal Metastasis in Early-Stage Oral Cavity Squamous Cell Carcinoma. *JAMA Netw Open.* 2022 Apr 1;5(4):e227226. doi: 10.1001/jamanetworkopen.2022.7226. PMID: 35416990; PMCID: PMC9008495.



RECENT JOURNAL PUBLICATIONS (cont.)

- 14: Allen DZ, Challapalli S, McKee S, Lee KH, Bell CS, Roy S, Bowe S, Balakrishnan K, Chang CWD, Huang Z. Impact of COVID-19 on nationwide pediatric otolaryngology: Otitis media and myringotomy tube trends. *Am J Otolaryngol*. 2022 Mar-Apr;43(2):103369. doi: 10.1016/j.amjoto.2021.103369. Epub 2022 Jan 11. PMID: 35033925; PMCID: PMC8748207.
- 15: Wieser ME, Dooley LM, Galloway TL, Zitsch RP, Tassone PT. Safety of the "incidental" neck dissection or exploration during free tissue transfer after head and neck irradiation. *Am J Otolaryngol*. 2022 Mar-Apr;43(2):103347. doi: 10.1016/j.amjoto.2021.103347. Epub 2021 Dec 24. PMID: 34999350.
- 16: Yanez-Siller JC, Wentland C, Bowers K, Litofsky NS, Rivera AL. Squamous Cell Carcinoma of the Temporal Bone Arising from Cholesteatoma: A Case Report and Review of the Literature. *J Neurol Surg Rep*. 2022 Feb 8;83(1):e13-e18. doi: 10.1055/s-0041-1741069. PMID: 35155077; PMCID: PMC8824697.
- 17: Chang CWD, Tamaki A, Shemer A. Overcoming Vaccine Hesitancy Around Bell Palsy in Otolaryngology-Head and Neck Surgery-Reply. *JAMA Otolaryngol Head Neck Surg*. 2022 Feb 1;148(2):198-199. doi: 10.1001/jamaoto.2021.3561. PMID: 34882173.
- 18: Dos Santos HT, Nam K, Maslow F, Trump B, Baker OJ. Specialized pro-resolving receptors are expressed in salivary glands with Sjögren's syndrome. *Ann Diagn Pathol*. 2022 Feb;56:151865. doi: 10.1016/j.anndiagpath.2021.151865. Epub 2021 Nov 17. PMID: 34847389; PMCID: PMC8938998.
- 19: Wieser ME, Gilley DR, May JG, Rivera AL. A rare case of a middle ear glomangioma. *SAGE Open Med Case Rep*. 2022 Jan 8;10:2050313X211070520. doi: 10.1177/2050313X211070520. PMID: 35024149; PMCID: PMC8744075.
- 20: Bernstein JGW, Phatak SA, Schuchman GI, Stakhovskaya OA, Rivera AL, Brungart DS. Single-Sided Deafness Cochlear Implant Sound-Localization Behavior With Multiple Concurrent Sources. *Ear Hear*. 2022 Jan/Feb;43(1):206-219. doi: 10.1097/AUD.0000000000001089. PMID: 34320529.
- 21: Chang CWD, McCoul ED, Briggs SE, Guardiani EA, Durand ML, Hadlock TA, Hillel AT, Kattar N, Openshaw PJM, Osazuwa-Peters N, Poetker DM, Shin JJ, Chandrasekhar SS, Bradford CR, Brenner MJ. Corticosteroid Use in Otolaryngology: Current Considerations During the COVID-19 Era. *Otolaryngol Head Neck Surg*. 2021 Dec 7:1945998211064275. doi: 10.1177/01945998211064275. Epub ahead of print. PMID: 34874793.
- 22: Gilley DR, Viridi GS, Namin AW, Dooley LM. Utility of CT in the workup of adults with sore throat in the emergency department. *Am J Emerg Med*. 2021 Dec;50:739-743. doi: 10.1016/j.ajem.2021.09.063. Epub 2021 Sep 25. PMID: 34879496.
- 23: Morse E, Lohia S, Dooley LM, Gupta P, Roman BR. Travel distance is associated with stage at presentation and laryngectomy rates among patients with laryngeal cancer. *J Surg Oncol*. 2021 Dec;124(8):1272-1283. doi: 10.1002/jso.26643. Epub 2021 Aug 14. PMID: 34390494.
- 24: Wentland C, Cousins J, May J, Rivera A. Dural Contact to the Malleus Head in Patients with Superior Semicircular Canal Dehiscence (SSCD): Case Series and Review of SSCD and Tegmen Defects. *Ann Otol Rhinol Laryngol*. 2021 Dec;130(12):1400-1406. doi: 10.1177/00034894211007257. Epub 2021 Apr 9. PMID: 33834872.
- 25: Roland LT, Regenberg A, Luong AU, Wise SK, Toskala E, Lam KK, Levy JM, Franzese CB, Smith K, Kim J. Biologics for chronic rhinosinusitis with nasal polyps: Economics and ethics. *Int Forum Allergy Rhinol*. 2021 Nov;11(11):1524-1528. doi: 10.1002/alar.22864. Epub 2021 Jul 11. PMID: 34250730.
- 26: Namin AW, Oudin EM, Tassone PT, Galloway TLI, Dooley LM, Zitsch RP 3rd. Treatment of Cutaneous Melanoma of the Head and Neck With Wide Local Excision Versus Mohs. *Laryngoscope*. 2021 Nov;131(11):2490-2496. doi: 10.1002/lary.29570. Epub 2021 Apr 12. PMID: 33844289.
- 27: Hardin FM, Eskander PN, Franzese C. Cost-effective Analysis of Subcutaneous vs Sublingual Immunotherapy From the Payor's Perspective. *OTO Open*. 2021 Oct 25;5(4):2473974X211052955. doi: 10.1177/2473974X211052955. PMID: 34723051; PMCID: PMC8549470.



RECENT JOURNAL PUBLICATIONS (cont.)

28: Lever TE, Kloepper AM, Deninger I, Hamad A, Hopewell BL, Ovaatt AK, Szweczyk M, Bunyak F, Zitsch B, Blake B, Vandell C, Dooley L. Advancing Laryngeal Adductor Reflex Testing Beyond Sensory Threshold Detection. *Dysphagia*. 2021 Oct 22. doi: 10.1007/s00455-021-10374-5. Epub ahead of print. PMID: 34686917.

29: Han JK, Bosso JV, Cho SH, Franzese C, Lam K, Lane AP, Lee SE, Palmer J, Peters A, Soler ZM, Lee JT. Multidisciplinary consensus on a stepwise treatment algorithm for management of chronic rhinosinusitis with nasal polyps. *Int Forum Allergy Rhinol*. 2021 Oct;11(10):1407-1416. doi: 10.1002/alr.22851. Epub 2021 May 31. PMID: 34057824.

30: Nam K, Dos Santos HT, Maslow F, Trump BG, Lei P, Andreadis ST, Baker OJ. Laminin-1 Peptides Conjugated to Fibrin Hydrogels Promote Salivary Gland Regeneration in Irradiated Mouse Submandibular Glands. *Front Bioeng Biotechnol*. 2021 Sep 24;9:729180. doi: 10.3389/fbioe.2021.729180. PMID: 34631679; PMCID: PMC8498954.

31: Schmid JL, Galloway TLI, Bollig CA. Superior Thyroid Cornu Syndrome: A Novel Laryngeal Etiology of Chronic Cough. *Laryngoscope*. 2021 Sep;131(9):2051-2053. doi: 10.1002/lary.29285. Epub 2020 Dec 2. PMID: 33264428.

32: Dos Santos HT, Nam K, Hunt JP, Buchmann LO, Monroe MM, Baker OJ. SPM Receptor Expression and Localization in Irradiated Salivary Glands. *J Histochem Cytochem*. 2021 Aug;69(8):523-534. doi: 10.1369/00221554211031678. PMID: 34339312; PMCID: PMC8335844.



33: Chang CWD. Bell Palsy and COVID-19: Overcoming the Fear of "Known Unknowns". *JAMA Otolaryngol Head Neck Surg*. 2021 Aug 1;147(8):743-744. doi: 10.1001/jamaoto.2021.1261. PMID: 34165521.

34: Damask C, Franzese C. Mechanisms and Practical Use of Biologic Therapies for Allergy and Asthma Indications. *Otolaryngol Clin North Am*. 2021 Aug;54(4):717-728. doi: 10.1016/j.otc.2021.04.003. Epub 2021 Jun 10. PMID: 34119334.

35: Namin AW, Tassone PT, Galloway TLI, Renner GJ, Chang CWD. Scalp and Forehead Injury: Management of Acute and Secondary Defects. *Facial Plast Surg*. 2021 Aug;37(4):454-462. doi: 10.1055/s-0041-1722914. Epub 2021 Feb 12. PMID: 33580493.

36: Noiphithak R, Yanez-Siller JC, Nimmannitya P, Rukskul P. Transorbital Endoscopic Approach for Repair of Frontal Sinus Cerebrospinal Fluid Leaks: Case-Series. *Laryngoscope*. 2021 Aug;131(8):1753-1757. doi: 10.1002/lary.29161. Epub 2020 Oct 3. PMID: 33009848.

37: Bollig CA, Newberry CI, Galloway TLI, Zitsch RP, Hanly EK, Zhu VL, Pagedar N, Nallani R, Bur AM, Spanos WC, Jorgensen JB. Prognostic Impact of Metastatic Site and Pattern in Patients with Metastatic Head and Neck Cancer. *Laryngoscope*. 2021 Jun;131(6):E1838-E1846. doi: 10.1002/lary.29208. Epub 2020 Oct 24. PMID: 33098338; PMCID: PMC8896291.

38: Gilley DR, Clark A, Tassone P. A case of parapharyngeal space salivary duct cyst with fine needle biopsy suspicious for squamous cell carcinoma. *Am J Otolaryngol*. 2021 May-Jun;42(3):102924. doi: 10.1016/j.amjoto.2021.102924. Epub 2021 Jan 13. PMID: 33476969.





ALUMNI

We are proud of all our graduates that have come through our program over the last 50 years. The following are recent post-residency careers of our graduates:

2022

- Practice, MO
- Practice, TN
- H&N Fellowship

2021

- Facial plastics fellowship
- Practice, NE

2020

- Facial plastics fellowship
- Otology fellowship
- Military

2019

- Practice, TX
- H&N Fellowship; Academic practice, Rutgers

2018

- Practice, KS
- Practice, TN

Otolaryngology graduates from our program are scattered throughout the United States. Whether your career goal is private practice, hospital practice, or an academic practice environment, we can provide you connections to launch your career.





FACULTY

Olga Baker, DDS, PhD

Professor

Research Interest: Salivary gland disorders

Gregory S. Campbell, MD

Assistant Professor of Clinical Otolaryngology

Clinical Interest: General Otolaryngology

C.W. David Chang, MD, FACS

Jerry W. Templer, MD Faculty Scholar

Professor of Clinical Otolaryngology

Clinical Interest: Facial Plastic & Reconstructive Surgery, Rhinology

Laura M. Dooley, MD, FACS

Assistant Professor of Clinical Otolaryngology

Assistant Residency Program Director

Clinical Interest: Head & Neck Oncology, Laryngology

Susie Early, MD

Assistant Professor of Clinical Otolaryngology

Residency Program Director

Clinical Interest: General Otolaryngology

Christine B. Franzese, MD, FAAOA

Professor of Clinical Otolaryngology

Clinical Interest: Allergy, Rhinology

Tabitha L. I. Galloway, MD, FACS

Assistant Professor of Clinical Otolaryngology

Clinical Interest: Head & Neck Oncology, Microvascular Surgery, Sialendoscopy

Mark R. Gilbert, MD

Assistant Professor of Clinical Otolaryngology

Clinical Interest: Laryngology

Eliav Gov-Ari, MD, FACS, FAAP

Associate Professor of Clinical Otolaryngology

Clinical Interest: Pediatric Otolaryngology



FACULTY (cont.)

Matthew A. Kienstra, MD

Adjunct Assistant Professor of Otolaryngology
Clinical Interest: Facial Plastic & Reconstructive
Surgery, Skull Base Surgery

William C. Kinney, MD, MHA

Adjunct Assistant Professor of Otolaryngology
Clinical Interest: General Otolaryngology, Otology

David A. Kropf, MD

Adjunct Assistant Professor of Otolaryngology
Clinical Interest: General Otolaryngology

Teresa E. Lever, PhD

Associate Professor
Research Interest: Swallowing Disorders

David C. Mechlin, MD

Adjunct Assistant Professor of Otolaryngology
Clinical Interest: VA General Otolaryngology

Gregory J. Renner, MD, FACS

Professor Emeritus
Clinical Interest: Head & Neck Oncology,
Reconstructive Surgery

Arnaldo L. Rivera, MD, FACS

Associate Professor of Clinical Otolaryngology
Clinical Interest: Neurotology

Patrick T. Tassone, MD

Assistant Professor of Clinical Otolaryngology
Clinical Interest: Head & Neck Oncology,
Microvascular Surgery

Robert P. Zitsch III, MD, FACS

William E. Davis Chair and Professor
Clinical Interest: Head & Neck Oncology



JOIN US IN COLUMBIA!



School of Medicine
University of Missouri

Join the MU Health Care and MU School of Medicine team in beautiful Columbia, Missouri, a city that's grown around the university and knows the value of education, health and work-life balance. Consistently ranked as one of the top places to live, Columbia is a great place to raise a family, with plenty of outdoors, live arts and fitness opportunities.

OUTDOOR ADVENTURES

Columbia is home to over 65 miles of trails and 3,000 acres of parks perfect for walking, running, biking and other outdoor activities. Some highlights include:

- The Katy Trail, a 240-mile trail that nearly extends from Kansas City to St. Louis.
- The MKT Trail, an 8.9-mile trail that starts downtown and connects to the Katy Trail.
- Rock Bridge Memorial State Park, a 2,273-acre geological preserve with trails for hiking, mountain biking and horseback riding, as well as an explorable cave.
- Cosmo Park, a 533-acre park with sports fields, a golf course, tennis courts, a skate park, mountain-biking trails and more.
- Six 18-hole golf courses and two 18-hole disc golf courses, including Harmony Bend, the world's 14th-ranked course by Udisc.com.
- Three fenced dog parks and two off-leash areas to allow your pets room to run.



LIVE ENTERTAINMENT

Columbia offers multiple venues for live music, theater and film, including:

- Roots N Blues Festival, which includes three days of live music on two stages, local food trucks and 5k, 10k and half-marathon races.
- The True/False Film Festival, a long weekend of international films, live music and art.



SPORTS

If watching sports is more your thing, the local University of Missouri Tigers compete with the nation's best in the Southeastern Conference. Professional sports teams are also just two hours down the road in both Kansas City and St. Louis, including the Kansas City Chiefs and Royals and the St. Louis Cardinals and Blues.



EDUCATION

Columbia isn't just a college town, it's a three-college town with the University of Missouri, Stephens College and Columbia College offering multiple options for degrees and programs. Columbia Public Schools is also ranked in the top 10% of school districts nationwide by Niche.com.



- ▶ Learn more about all there is to do in Columbia with the city's **Visitor and Area Guide**.
 - ▶ Learn more about our recreation, sports, schools and relocation resources in the **Columbia Chamber of Commerce Community Profile**.
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School of Medicine
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