University of Missouri School of Medicine

Otolaryngology—Head and Neck Surgery
RESIDENCY ADMINISTRATION

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MizzouENT
We welcome you to Mizzou and encourage you to learn more about graduate medical education training opportunities with us. The otolaryngology residency program has been here since the first official trainee in 1970. From our early beginnings as a division of general surgery, the practice became its own department in 2000. We have graduated residency alumni who can be found throughout the United States in traditional, hospital, and/or academic practices.

Clinically, the department provides the premier otolaryngic care for citizens 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 an 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, pediatric otolaryngology, and oral surgery.

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 recently made large investments in a new conference room and new resident offices. In 2018, we 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 a burgeoning research program on swallowing disorders using new mice models developed by our researchers here at the University of Missouri. 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 here 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 the University of Missouri Health Care and the School of Medicine. Our oncology team joins with other regional academic institutions to form the Midwest Head & Neck Cancer Consortium to share ideas and collaborate on research interests. Our service activities demonstrate the passion and commitment we have to our organization and field.

Thanks for your interest in our program. We hope to cross paths with you sometime in your future!

**CW David Chang, MD, FACS**
Jerry W. Templer, MD Faculty Scholar in Otolaryngology
Residency Program Director

**Laura M. Dooley, MD**
Assistant Program Director
GENERAL INFORMATION

Our program alternatingly 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 200 applications per year and interview approximately 35 candidates. Our residents typically come from the central United States and have completed medical education in either an allopathic or osteopathic pathway. Although applicants are encouraged to have a strong academic record and research experience, we realize the qualities of strong work ethic, collegial demeanor, and self-motivation are not easy to determine on paper applications. Great physicians come from a variety of backgrounds that are not always represented by traditional metrics.
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, oculoplastic surgery, and head & neck radiology.

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

PGY3: The PGY3 year incorporates two months of research, six months at the VA as the midlevel resident, and a couple months on the head & neck and university otolaryngology service as the midlevel resident. A one month rotation at Springfield, MO provides further exposure to cosmetic plastic surgery as well as exposure to the private practice side of ENT.

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 university otolaryngology team and head & neck team.

PGY5: The PGY5 year is the chief resident year. Further otologic experience is gained with three months as the otology resident. Six months 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 making the weekly schedule as to how cases and clinics are covered.
MEDICAL TRAINING SITES

Otolaryngology training occurs at three main training sites in Columbia: Women’s and Children’s Hospital, MU Healthcare—University Hospital, and the VA. The VA and University Hospital are located across the street from each other, while Women’s and Children’s Hospital is merely a 10 minute drive away.

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.

Women’s and Children’s Hospital is a stand-alone pediatric hospital. It is also the location the Missouri Center for Outpatient Surgery, which provides same day surgery services for the hospital system. Within walking distance of the hospital are two outpatient ENT clinics: the Hearing and Balance Center and the ENT Allergy Center. 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 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.

Residents also travel to Springfield, MO for a month during their PGY3 year to gain additional exposure to a private practice teaching model as well as increased cosmetic facial plastic surgery procedures. This is a favorite rotation for residents for a variety of reasons.
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, which are held weekly, feature series of topics taken from the ABOto Core Curriculum and repeated on a 2-year cycle. Topics are assigned to resident presenters—in conjunction with a faculty preceptor—according to knowledge gaps based upon each resident’s performance on the Otolaryngology Training Exam. This structure creates a rich learning opportunity both for the presenter and the audience. Faculty also lead didactics not only through integration in the grand rounds schedule but by also leading a Sub-Specialty Series conference. This conference is rotated monthly amongst our faculty and provides our residents with greater insight into personal management of clinical challenges. We believe that 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.

Our educational curriculum is enhanced by additional department-sponsored experiential opportunities. PGY2s participate in the Midwest Otolaryngology Simulation Training bootcamp to gain practical beginning otolaryngology skills. PGY3s are sent to the AO trauma plating course (trauma management, hands-on application of fracture fixation) and the Resident Update in Rhinology (intensive cadaver workshop to develop techniques in endoscopic sinus surgery). In the PGY4 year, the 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. In the final year, the PGY5 residents attend the American Academy of Otolaryngic Allergy (AAOA) Resident Forum.

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. Residents are immersed in temporal bone drilling sessions throughout the year led by faculty and invited guest faculty. Ready-access to the lab also affords residents the opportunities to drill whenever desired, whether in preparation for a case or to further skills.

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.
BENEFITS

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

- PGY1 $55,302
- PGY2 $57,380
- PGY3 $59,328
- PGY4 $62,017
- PGY5 $64,669

Equipping residents with the tools needed for successful development is just as important as the curriculum experience. Each new resident receives personalized lab coats, head mirror, a copy of either Cummings or Bailey’s, a tuning fork, and a pocket otoscope to springboard them into residency. Furthermore, each year every resident is given Home Study Course+, an offering from the AAO-HNS that includes webcasts from the Annual Meeting, AcademyQ mobile-app study question bank, Home Study Course, and access to AcademyU® with 200+ online education activities.

Resident achievements in clinical and scholarly pursuits are appreciated and recognized by the department. An incentive 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 point values are weighted towards supporting research endeavors, other pursuits such as committee membership, educational lectures to other departments, and efforts to further our specialty locally and nationally are valued. Points can be redeemed for academic travel, books, loupes, and other materials that directly enhance education.

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 Dr. Teresa Lever, who is searching for insights into dysphagia. Her lab has developed a murine model of amyotrophic lateral sclerosis, and is studying the effects of serotonin supplementation upon swallow function. 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. Incentive points are awarded for steps taken along the research pathway, including IRB submission, manuscript preparation, and acceptance of publication/presentation.
RECENT JOURNAL PUBLICATIONS


Umstattd LA, Dooley LM. Tissue Necrosis and Fungal Rhinosinusitis Resulting From Intranasal Acetaminophen Use. Ear Nose Throat J. 2019 Jul 4:145561319861376. [Epub ahead of print]


RECENT JOURNAL PUBLICATIONS (cont.)


Hoang S, Ortiz Torres MJ, Rivera AL, Litofsky NS. Middle Cranial Fossa Approach to Repair Tegmen Defects with Autologous or Alloplastic Graft. World Neurosurg. 2018 Oct;118:e10-e17.


**FACULTY**

**M. Stephen Brandon Jr, DDS**  
Assistant Professional Practice Professor  
Clinical Interest: Oral Surgery

**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  
Associate Professor of Clinical Otolaryngology  
Residency Director  
Clinical Interest: Facial Plastic & Reconstructive Surgery, Rhinology

**Laura M. Dooley, MD**  
Assistant Professor of Clinical Otolaryngology  
Assistant Program Director  
Clinical Interest: Head & Neck Oncology, Laryngology

**Susie Early, MD**  
Assistant Professor of Clinical Otolaryngology  
Clinical Interest: General Otolaryngology

**Christine B. Franzese, MD, FAAOA**  
Professor of Clinical Otolaryngology  
Medical Student Director  
Clinical Interest: Allergy, Rhinology

**Tabitha L. I. Galloway, MD**  
Assistant Professor of Clinical Otolaryngology  
Clinical Interest: Head & Neck Oncology, Microvascular Surgery, Sialendoscopy

**Mark R. Gilbert, MD**  
Assistant Professor  
Clinical Interest: Laryngology

**Eliav Gov-Ari, MD, FACS, FAAP**  
Associate Professor of Clinical Otolaryngology  
Clinical Interest: Pediatric Otolaryngology

**Matthew A. Kienstra, MD**  
Adjunct Assistant Professor of Otolaryngology  
Clinical Interest: Facial Plastic & Reconstructive Surgery, Skull Base Surgery

**Dana M King III, MD**  
Clinical Assistant Professor of Otolaryngology  
Clinical Interest: VA General Otolaryngology
FACULTY (cont.)

William C. Kinney, MD
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
Associate Professor of Clinical Otolaryngology
Clinical Interest: Neurotology

Janice L. Seabaugh, MD
Adjunct Assistant Professor of Otolaryngology
Clinical Interest: VA General Otolaryngology

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 Professor and Chair
Clinical Interest: Head & Neck Oncology
COLUMBIA OFFERS

• 600 restaurants
• 8 hospitals and health care centers
• Places of worship for all major religions
• Indoor and outdoor live theater and music
• 49 public parks and 6 recreation areas
• Walking trails throughout the city
• 32 museums and art galleries

DOWNTOWN

Columbia’s historic downtown district is packed with shops and entertainment. Columbia’s local art scene thrives, with venues including Orr Street Studios, Sager Braudis Gallery, Artlandish Gallery, Bluestem Missouri Crafts, the Columbia Art League and a burgeoning North Village Arts District.

Want to go shopping? You’re in luck! The District is packed with designer boutiques, shoe stores, jewelers, florists, book shops, sweets shops and purveyors of eco-friendly products and novelty items.

THE GREAT OUTDOORS

Columbia boasts multiple city parks, as well as, Rock Bridge State Park, Stephens Lake and the city’s Activity and Recreation Center. We have caves, lakes, streams and cliffs for outdoor adventurers.

SCHOOLS

Columbia is home to nationally renowned public schools, including two top-ranked high schools. It offers a public school system that annually produces some of the largest numbers of national merit scholars in the state, 18 parochial and private schools, four special-needs training facilities, an adult education center and a lifelong learning institute. It also supports other institutes of higher education, including Columbia College, and Stephens College, a women’s college known for its fashion, film and fine arts.

INSIDE SCOOP

Our Favorite Things to do in Columbia

True/False Film Fest – An internationally acclaimed festival that attracts Oscar-winning documentary film makers.

Roots and Blues Festival – This New York Times touted BBQ event draws top-name acts and crowds of 100,000 people. The festival also has art fairs, parades, pub crawls, sidewalk sales and outdoor concerts.

Best Place To Enjoy A Glass Of Wine

Maybe you’re sipping your glass of vino over a fancy dinner at Blufftop Bistro or a casual picnic at the A-Frame, or maybe you’re sampling a selection at the Tasting Room. Regardless of how you choose to enjoy your glass, Les Bourgeois provides a beautiful backdrop and a variety of locally produced wines.

Best Place To Enjoy A Good Beer

You can’t beat a good, local craft beer, and at Flat Branch Pub & Brewing, you’ll find 12 or 13, all brewed in-house, on tap every night.

Best Coffee House

With its homey atmosphere, excellent customer service and wide selection of coffees, all of which are roasted in house, Lakota Coffee Company and Roasters has been keeping Columbia caffeinated since 1992.