Department of Otolaryngology
The Department of Otolaryngology–Head & Neck Surgery (http://oto.wustl.edu/) at Washington University in St. Louis has a rich, 130-year history of leadership in our field that is built on the foundations of academic medicine: patient care, research, training and service. Our past leaders include luminaries in the field of otolaryngology, such as John Blasdell Shapleigh, MD; Greenfield Sluder, MD; Lee Wallace Dean, MD; Theodore Walsh, MD; Joseph Ogura, MD; John Fredrickson, MD; Richard A. Chole, MD, PhD; and, presently, Craig A. Buchman, MD, FACS. Even from our earliest days — prior to the inception of the McMillan Eye, Ear, Nose and Throat Hospital (circa 1943) — excellence has been an integral part of the department’s fabric. A look at former faculty and program graduates reveals many of the true innovators in our field. While we remain humbled by our beginnings and past achievements, we choose not to rest on our laurels. Rather, we aspire to further our commitment to improving patients’ lives by leading our field and its clinical application.

Today, more than ever, we are driven to provide highest-quality, cutting-edge patient care that is both safe and effective. Our Washington University physicians and team, together with our Honor Roll Award–winning hospital, Barnes-Jewish Hospital (U.S. News, 2020-21), are second to none when it comes to tackling the full spectrum of conditions involving the ear, nose, throat, head and neck. Our basic, translational and clinical research programs are remarkable, providing answers to a variety of relevant questions that build on our foundations of knowledge, lay the groundwork for future clinical trials, and provide state-of-the-art patient solutions. Our educational programs for medical and graduate students, physicians in training, and established practitioners are committed to creating a culture of lifelong learning that firmly establishes our next generation of leaders in the field. Our residency program is highly rated by all metrics, providing balanced training across the clinical subspecialties and unique opportunities for growth and development as clinician-scientists (T32 training grant) and educators. We are most proud that these activities are ongoing in a work culture that values collegiality, inclusiveness, diversity and mutual respect. The Department of Otolaryngology–Head & Neck Surgery at Washington University in St. Louis is a truly outstanding place!

CID at Washington University School of Medicine
The consortium of graduate education, research and clinical programs known today as CID at Washington University School of Medicine was born out of the pioneering efforts of St. Louis physician Max Goldstein, MD. In 1914, he founded the Central Institute for the Deaf (CID), where doctors and teachers worked together to help deaf people. When CID’s school building opened two years later, its auditory/oral methods for instructing deaf children were groundbreaking.

Washington University and CID first joined forces in 1931, when CID’s established teacher training program became the first deaf education undergraduate program to affiliate with a university. Graduate programs in deaf education, audiology, and speech and hearing sciences soon followed.

Beginning in the 1930s, CID’s research efforts involved the study of the anatomy and science of hearing. During World War II, CID’s research on hearing loss in military personnel laid the foundation for the field of audiology. CID also pioneered hearing testing and hearing aids, and it opened the country’s first hearing aid clinic in 1941. In September 2003, a new affiliation transferred CID’s graduate degree programs, research programs and adult audiology clinic — along with its building — to Washington University School of Medicine. The CID school continues to operate on the School of Medicine campus as CID — Central Institute for the Deaf.

Today, these programs continue to work together to fulfill a shared mission to serve people with hearing loss.

Website: http://oto.wustl.edu

Faculty
Craig A. Buchman, MD, FACS (https://oto.wustl.edu/people/craig-a-buchman-md/)
Department Head
Visit our website for more information about our faculty (https://oto.wustl.edu/people-page/) and their appointments.

A
Azadeh Afshari, M.S., D.Dent.
Instructor in Clinical Otolaryngology
Bachelor of Science, West Virginia University, 2004
Master of Science, University of Texas Medical School Houston, 2013
Doctor of Dentistry, University of Texas Medical School Houston, 2014

B
Sean B Bailey, M.S., M.D.
Instructor in Clinical Otolaryngology
Bachelor of Science, Tulane University, 1981
Doctor of Medicine, Tulane University, 1987
Master of Science, Tulane University, 1988

Jianxin Bao, Ph.D.
Adjunct Associate Professor of Otolaryngology
Doctor of Philosophy, University of Florida, 1992

Lynda Cheryl Berkowitz, M.S.
Instructor in Otolaryngology (primary appointment)
Instructor in Audiology and Communication Sciences
Champaign, 1981
Master of Science, Washington University in St Louis, 1983

Andrew E Bluher, M.D.
Assistant Professor of Otolaryngology (primary appointment)
Bachelor of Science, Princeton University, 2009
Doctor of Medicine, University of Maryland Baltimore, 2014

**Gregory Harris Branham, M.D.**
Professor of Otolaryngology (primary appointment)
Bachelor of Science, University of South Carolina Columbia, 1979
Doctor of Medicine, University of South Carolina Columbia, 1983

**Jennifer Brinkmeier, M.D.**
Associate Professor of Otolaryngology (primary appointment)
Bachelor of Arts, Williams College, 2002
Doctor of Medicine, Ohio State University College of Medicine, 2007

**Craig Alan Buchman, M.D.**
Professor of Otolaryngology (primary appointment)
Head of the Department of Otolaryngology
Lindburg Professor of Otolaryngology
Bachelor of Arts, University of Georgia, 1986
Doctor of Medicine, University of Florida, 1990

**John Jeonhwan Chi, M.A., M.D.**
Associate Professor of Otolaryngology (primary appointment)
Division Chief - Facial Plastic & Reconstructive Surgery
Bachelor of Science, Columbia University, 2001
Master of Arts, City College, 2003
Doctor of Medicine, SUNY Downstate Medical Center University Hospital in Brooklyn, 2007

**John N Chiapel**
Instructor in Clinical Otolaryngology

**Richard A Chole, Ph.D., M.D.**
Emeritus Professor of Otolaryngology
Doctor of Medicine, University of Southern California, 1969
Doctor of Philosophy, University of Minnesota, 1977

**William W. Clark, M.S., Ph.D.**
Professor Emeritus of Otolaryngology
Bachelor of Arts, University of Michigan Ann Arbor, 1969
Master of Science, University of Michigan Ann Arbor, 1973
Doctor of Philosophy, University of Michigan Ann Arbor, 1975

**Sheldon C Cohen, D.Dent.**
Instructor in Clinical Otolaryngology
Bachelor of Science, Washington University in St Louis, 1973
Doctor of Dentistry, Southern Illinois University (Duplicate of Southern Illinois University Carbondale), 1976

**Brandon Joseph Crivello, D.Dent.**
Instructor in Clinical Otolaryngology
Bachelor of Science, Southern Illinois University Edwardsville, 2012
Doctor of Dentistry, Southern Illinois University (Duplicate of Southern Illinois University Carbondale), 2016

**Rajan Paul Dang, M.D.**
Assistant Professor of Otolaryngology (primary appointment)
Bachelor of Science, Vanderbilt University, 2011

Doctor of Medicine, Mount Sinai School of Medicine, 2016

**Lisa S. Davidson, M.S., Ph.D.**
Associate Professor of Otolaryngology (primary appointment)
Associate Professor of Audiology and Communication Sciences
Bachelor of Science, East Tennessee State University, 1985
Master of Science, Washington University in St Louis, 1987
Doctor of Philosophy, Washington University in St Louis, 2003

**Sheldon L Davis**
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**Andrew J. Drescher, M.D.**
Associate Professor of Otolaryngology (primary appointment)
Bachelor of Science, Yale University, 1998
Doctor of Medicine, University of Michigan Ann Arbor, 2002

**Norman Steven Druck, M.D.**
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Bachelor of Arts, Washington University in St Louis, 1967
Champaign), 1970

**Katherine Dunsky, M.D.**
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Doctor of Medicine, Saint Louis University, 2010

**Nedim Durakovic, M.D.**
Assistant Professor of Otolaryngology (primary appointment)
Bachelor of Arts, Brown University, 2007
Doctor of Medicine, Brown University, 2012

**Nyssa F Farrell, M.D.**
Assistant Professor of Otolaryngology (primary appointment)
Bachelor of Science, University of South Carolina Columbia, 2010
Doctor of Medicine, University of South Carolina Columbia, 2014

**Charles Coleman Finley**
Adjunct Research Associate Professor of Otolaryngology

**Jill B Firszt, M.S., Ph.D.**
Professor of Otolaryngology (primary appointment)
Professor of Audiology and Communication Sciences
Champaign, 1978
Champaign, 1982
Champaign, 1998

**William D Gay, D.Dent.**
Associate Professor Emeritus of Otolaryngology
Doctor of Dentistry, University of Tennessee, 1966

**Joel Goebel, M.D.**
Professor Emeritus of Otolaryngology
Bachelor of Science, University of Notre Dame, 1976
Doctor of Medicine, Washington University in St Louis, 1980

**James Dean Gould, M.D.**
Instructor in Clinical Otolaryngology
Bachelor of Arts, University of Virginia, 1989
Doctor of Medicine, University of Virginia, 1993

Heather Jean Grantham, M.Ed., Ph.D.
Associate Professor of Otolaryngology (primary appointment)
Associate Professor of Audiology and Communication Sciences
Bachelor of Arts, Emory University, 1995
Master of Education, Smith College, 2005
Doctor of Philosophy, Washington University in St Louis, 2009

Matthew David Greaves, M.S., D.Dent.
Instructor in Clinical Otolaryngology
Bachelor of Science, Westminster College, 2010
Doctor of Dentistry, University of Missouri Kansas City, 2014
Master of Science, University of Minnesota, 2018

Christine Hilary Gustus, M.S.
Instructor in Otolaryngology (primary appointment)
Instructor in Audiology and Communication Sciences
Main Campus, 1973
Master of Science, Washington University in St Louis, 1975

H

Jason M. Hanson, M.D.
Instructor in Clinical Otolaryngology
Bachelor of Arts, Johns Hopkins University, 1988
Doctor of Medicine, Northwestern University, 1992

Eugenio Guidote Herbosa
Instructor in Clinical Otolaryngology

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Professor of Otolaryngology (primary appointment)
Bachelor of Arts, University of Missouri Columbia, 1980
Doctor of Medicine, University of Missouri Kansas City, 1980

Keiko Hirose, M.D.
Professor of Otolaryngology (primary appointment)
Professor of Audiology and Communication Sciences
Professor of Pediatrics
Doctor of Medicine, Harvard University, 1993

Lawrence M Hoffman, D.Dent.
Instructor in Clinical Otolaryngology (DMD)
Bachelor of Arts, Indiana University Bloomington, 1972
Doctor of Dentistry, Washington University in St Louis, 1976

Dee Jay Hubbard, M.A., Ph.D.
Adjunct Assistant Professor of Otolaryngology (Speech Pathology)
Bachelor of Science, Kansas State University, 1962
Master of Arts, University of Iowa, 1965
Doctor of Philosophy, University of Iowa, 1967

Margaret Naunheim Huston, M.D.
Assistant Professor of Otolaryngology (primary appointment)
Division Chief of Laryngology
Bachelor of Arts, Duke University, 2009
Doctor of Medicine, University of Chicago, 2013

J

Ryan Scott Jackson, M.D.

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Associate Professor of Otolaryngology (primary appointment)
Bachelor of Arts, Saint Louis University, 2004
Doctor of Medicine, Saint Louis University, 2009

Arnold Scott Jacobson, M.S., D.Dent.
Instructor in Clinical Otolaryngology (DMD)
Bachelor of Arts, University of Missouri Columbia, 1970
Doctor of Dentistry, Washington University in St Louis, 1976
Master of Science, University of Missouri Columbia, 1977

K

Dorina Kallogjeri, M.P.H., M.D.
Assistant Professor of Otolaryngology (primary appointment)
Doctor of Medicine, University of Tirana, 1997
Master of Public Health, Saint Louis University, 2007

Eugenia Kardaris
Instructor in Clinical Otolaryngology (DDS)

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Instructor in Clinical Otolaryngology
Assistant Professor of Clinical Surgery (Plastic and Reconstructive Surgery)
Bachelor of Arts, California State University, 1978
Doctor of Dentistry, Washington University in St Louis, 1984
Main Campus, 1987

Prashanth Konatham Haribabu
Instructor in Clinical Otolaryngology

L

Carl Wesley Lee, M.D.
Instructor in Clinical Otolaryngology
Doctor of Medicine, Case Western Reserve University, 1992
Bachelor of Arts, Stanford University, 1998

David Seamus Leonard, M.H.A., MB.ChB.
Associate Professor of Otolaryngology (primary appointment)
Vice Chair - Division of Pediatric Otolaryngology
Division Chief for Pediatric Otolaryngology
Bachelor of Arts, Dartmouth College, 1995
Foreign MD equivalent, National University of Ireland, 2000
Master of Health Administration, Harvard University, 2012

Judith E Lieu, M.D.
Professor of Otolaryngology (primary appointment)
Vice Chair Education Department of Otolaryngology
Vice Chair - Education
Bachelor of Science, University of California Davis, 1988
Doctor of Medicine, Washington University in St Louis, 1992

Miranda R Lindburg, M.D.
Assistant Professor of Otolaryngology (primary appointment)
Bachelor of Science, Washington University in St Louis, 2010
Doctor of Medicine, Washington University in St Louis, 2017

Xia Liu
Assistant Professor of Otolaryngology (primary appointment)
Richard W Maack, M.D.
Instructor in Clinical Otolaryngology
Bachelor of Science, Muhlenberg College, 1981
College Park), 1985

Katrina Sue McClannahan, Ph.D.
Assistant Professor of Otolaryngology (primary appointment)
Bachelor of Science, University of Minnesota, 2002
Doctor of Philosophy, University of Washington, 2017

Murray D McGrady, M.D.
Instructor in Clinical Otolaryngology
Champaign, 1982
Champaign, 1986

Dwight McLeod
Voluntary Instructor in Clinical Otolaryngology

Maithilee D Menezes, M.D.
Associate Professor of Otolaryngology (primary appointment)
Bachelor of Science, Grinnell College, 1997
Doctor of Medicine, Grinnell College, 2002

David W. Molter, M.D.
Professor of Otolaryngology (primary appointment)
Bachelor of Science, Duke University, 1980
Doctor of Medicine, Duke University, 1988

Nancy Tye Murray, M.S., Ph.D.
Professor of Otolaryngology (primary appointment)
Professor of Audiology and Communication Sciences
Bachelor of Science, Texas Christian University, 1977
Master of Science, University of Iowa, 1979
Doctor of Philosophy, University of Iowa, 1984

Frank Russell Newman
Instructor in Clinical Otolaryngology

Margaret A Ogden, M.D.
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Vice Chair - Clinical Operations
Bachelor of Arts, Amherst College, 1997
Doctor of Medicine, Washington University in St Louis, 2002

Kevin Kenneth Ohlemiller, Ph.D.
Professor of Otolaryngology (primary appointment)
Professor of Audiology and Communication Sciences
Bachelor of Science, Indiana University Bloomington, 1983
Doctor of Philosophy, Northwestern University, 1990

Amanda J Ortmann, M.S., Ph.D.
Assistant Professor of Otolaryngology (primary appointment)
Director - Audiology Studies in Audiology and Communication Sciences
Bachelor of Science, Missouri Baptist University, 2001
Master of Science, Washington University in St Louis, 2003
Doctor of Philosophy, University of Pittsburgh, 2012

Pandal C Paniello, M.B.A., M.S., M.D.
Professor of Otolaryngology (primary appointment)
Christy J. and Richard S. Hawes III Professorship
Champaign, 1979
Champaign, 1980
Champaign, 1984
Master of Business Administration, Washington University in St Louis, 1999

Guangyong Peng
Professor of Otolaryngology (Pending Executive Faculty Approval) (primary appointment)

Jay Francis Piccirillo, M.D.
Professor of Otolaryngology (primary appointment)
Professor of Medicine
Professor of Occupational Therapy
Professor of Biostatistics
Vice Chair - Research
Bachelor of Arts, University of Vermont, 1979
Doctor of Medicine, University of Vermont, 1985

Patrik Pipkorn, M.D.
Assistant Professor of Otolaryngology (primary appointment)
Doctor of Medicine, University of Gothenburg, 2007

Lisa Gayle Potts, M.S., Ph.D.
Assistant Professor of Otolaryngology (primary appointment)
Assistant Professor of Audiology and Communication Sciences
Bachelor of Science, Southern Illinois University Carbondale, 1988
Master of Science, Washington University in St Louis, 1991
Doctor of Philosophy, Washington University in St Louis, 2006

Sidharth Venkata Puram, Ph.D., M.D.
Assistant Professor of Otolaryngology (primary appointment)
Division Chief - Head and Neck Surgery
Bachelor of Science, Massachusetts Institute of Technology, 2005
Doctor of Philosophy, Harvard University, 2011
Doctor of Medicine, Harvard University, 2013

Casey Krauss Reimer, Ph.D.
Assistant Professor of Otolaryngology (primary appointment)
Doctor of Philosophy, Washington University in St Louis, 2019

Jason T. Rich, M.D.
Associate Professor of Otolaryngology (primary appointment)
Bachelor of Science, Brigham Young University, 2000
Main Campus, 2004

Matthew Rohlfing, M.D.
Assistant Professor of Otolaryngology (primary appointment)
Bachelor of Science, Wake Forest University, 2012
Doctor of Medicine, Wake Forest University, 2016

Lauren Tashima Roland, M.S., M.D.
Assistant Professor of Otolaryngology (primary appointment)
Bachelor of Science, Massachusetts Institute of Technology, 2007
College of Medicine, 2011
Master of Science, Washington University in St Louis, 2015

Mark A Rutherford, Ph.D.
Associate Professor of Otolaryngology (primary appointment)
Bachelor of Science, University of Missouri in St Louis, 1999
Doctor of Philosophy, University of Oregon, 2005

S

Thomas Schiff, D.Dent.
Professor Emeritus of Diagnostic Services
Doctor of Dentistry, University of Alabama (Duplicate of University of Alabama in Tuscaloosa), 1961

Robert James Schmidt
Instructor in Clinical Otolaryngology

John Stone Schneider, M.P.P., M.D.
Associate Professor of Otolaryngology (primary appointment)
Division Chief - Rhinology
Lecturer
Master of Public Policy, University of Chicago, 2007
Doctor of Medicine, University of Chicago, 2007

Donald G Sessions, M.D.
Professor Emeritus of Otolaryngology
Bachelor of Arts, Princeton University, 1958
Doctor of Medicine, Washington University in St Louis, 1962

Karl Shanker, D.Dent.
Instructor in Clinical Otolaryngology (DDS)
Bachelor of Arts, Washington University in St Louis, 1975
Doctor of Dentistry, University of Missouri Columbia, 1978

Lavinia Sheets, Ph.D.
Assistant Professor of Otolaryngology (primary appointment)
Assistant Professor of Developmental Biology
Bachelor of Science, Pacific University, 1996
Doctor of Philosophy, Oregon Health & Science University, 2007

Matthew Shew, M.D.
Assistant Professor of Otolaryngology (primary appointment)
Bachelor of Science, Bowdoin College, 2009
Doctor of Medicine, Indiana University – Purdue University Fort Wayne (IPFW), 2014

Emily A. Spataro, M.D.
Assistant Professor of Otolaryngology (primary appointment)
Bachelor of Science, Duke University, 2007
Doctor of Medicine, Washington University in St Louis, 2012

Gershon J Spector, M.D.
Professor Emeritus of Otolaryngology
Bachelor of Arts, Johns Hopkins University Medical (Duplicate of Johns Hopkins University), 1960
College Park), 1964

Malcolm H Stroud, M.D.
Professor Emeritus of Otolaryngology
Doctor of Medicine, University of Birmingham, 1945

T

Isolede E Thalmann, M.A., Ph.D.
Professor Emeritus of Otolaryngology
Bachelor of Science, Washington University in St Louis, 1968
Master of Arts, Washington University in St Louis, 1973
Doctor of Philosophy, California Western (Duplicate of California Western School of Law), 1982

U

Rosalie May Uchanski, M.S., Ph.D.
Assistant Professor of Otolaryngology (primary appointment)
Assistant Professor of Audiology and Communication Sciences
Bachelor of Science, University of Illinois at Chicago, 1970
Master of Science, Adelphi University, 1972
Champaign), 1975

V

Michael Valente, M.S., Ph.D.
Professor Emeritus of Otolaryngology (Audiology)
Bachelor of Arts, Adelphi University, 1970
Master of Science, Adelphi University, 1972

W

Mark Edward Warchol, Ph.D.
Professor of Otolaryngology (primary appointment)
Professor of Audiology and Communication Sciences
Professor of Neuroscience
Bachelor of Science, University of Washington, 1981
Doctor of Philosophy, Northwestern University, 1989

Cameron Connelly Wick, M.D.
Associate Professor of Otolaryngology (primary appointment)
Bachelor of Science, Washington and Lee University, 2006
Main Campus, 2010

June Kleinfeld Wouff, D.Dent.
Instructor in Clinical Otolaryngology
Doctor of Dentistry, Washington University in St Louis, 1985

Y

Tatyana Aleksandrovna Yakusheva, M.S., Ph.D.
Assistant Professor of Otolaryngology (primary appointment)
Master of Science, Saratov State University, 1997
Doctor of Philosophy, Peoples’ Friendship University of Russia, 2002

Z

Paul Zolkind, M.D.
Assistant Professor of Otolaryngology (primary appointment)
Research Electives

Otolaryngology Research Electives

During the fourth year, opportunities exist for many varieties of advanced clinical or research experiences.

The type of research will depend upon the current phase of the research program in each laboratory. Students should contact the director of each laboratory to negotiate.

Tatyana Yakusheva, PhD
East McDonnell Science Building
4566 Scott Avenue
Phone: 314-362-1013

This lab studies the role of the vestibulocerebellum and its target nuclei for eye movement control and spatial orientation. We use a range of methodologies, including single and multiunit recordings, electrical brain stimulation, computational methods, pharmacology and behavioral studies. Our main lines of research are as follows: (1) signal transformations carried out by the vestibulocerebellum during visual and vestibular stimulation; (2) neuronal computations performed by the anterior and posterior cerebellar vermis for spatial navigation in mice; and (3) the role of the cerebellum-brainstem loop in motor learning in the vestibulo-ocular reflex.

Students will be instructed in one or several techniques and are expected to contribute significantly to the development of specific lab projects.

Judith E.C. Lieu, MD, MSPH
8600 MCC, 8th Floor
Phone: 314-747-8205

The focus of the Lieu Lab is clinical outcomes research in pediatric otolaryngology. The techniques and methodologies of clinical epidemiology and health services research are applied to investigate clinical problems in children. Projects currently underway include the evaluation of the quality of life of young children with hearing loss, the evaluation of hearing loss on the perception of fatigue in children, and the evaluation of fatigue experienced in children with hearing loss compared with those who have sleep apnea. Potential studies include evaluating changes in the quality of life of children who begin using hearing amplification devices. Other projects of the student’s choosing that would utilize these research techniques may also be pursued.

Kevin K. Ohlemiller, PhD
2205 Central Institute for the Deaf
Phone: 314-747-7179

The focus of this lab is on gene–environment interactions in cochlear injury. We study the interaction of genes and environment that increase cochlear injury due to noise and otoxic exposure, with an emphasis on how these may yield apparent presbycusis. Because cochlear function and injury is the same in mice and humans and governed by the same genes, we use mostly mouse models. Methods employed include standard auditory brainstem response assessment and intracochlear recording, quantitative light microscopy, immunocytochemistry, and Western blots. We and our collaborators have identified specific genes and inbred strains of mice that mimic the three major forms of human presbycusis (sensory, neural and striaal).

Sensory presbycusis appears to be promoted by alleles and mutations that impair protective factors (e.g., antioxidant enzymes) or that impair ion homeostasis. These may enhance cochlear injury from noise and ototoxins. Neural presbycusis can be modeled in part by mutations that impair inner hair cell/afferent synaptic function. Although it is not yet clear what types of genes and mutations can lead to striaal presbycusis, we have discovered multiple mouse strains that show age-related endocochlear potential reduction along with distinctive striaal pathology that includes fewer marginal cells as well as fewer and larger striaal capillaries.

We have also published quantitative trait loci that impact the qualitative character of cochlear noise injury. Important implications of our findings are (1) that there exists no single “mammalian” archetype of cochlear noise injury and (2) that noise injury to the organ of Corti in young adult animals depends in part on the status of the cochlear lateral wall. The latter relation appears to be genetically linked and appears not to apply to older adults.

We collaborate widely, both within the School of Medicine and nationally. Our research is eminently adaptable in difficulty and scale to students’ schedules and other requirements. Students may expect to learn the full range of methods we employ, including physiology, immunocytochemistry, histopathology and cellular/molecular techniques.

Jay F. Piccirillo, MD
8430 MCC, 8th Floor
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The Clinical Outcomes Research Office performs clinical epidemiology and health services research. Clinical epidemiology is the study of diagnosis, prognosis and the evaluation of treatment. Health service research is the study of the delivery of health care. The scientific methodology of clinical epidemiology is based on the architecture of clinical research, biostatistics and data processing. Current projects include studying the impact of comorbidities on the treatment and outcomes of patients with cancer. We also conduct research into the neurobiology, treatment and outcomes of patients with tinnitus. One method that we employ is the use of smartphone technology to capture ecological momentary assessments of tinnitus. Additional projects include exploiting neuroplasticity as part of olfactory training for patients with anosmia. With the use of clinical epidemiology methodology, we can also study a variety of other diseases.

Courses

M55 Oto 803 Pediatric Otolaryngology (Clinical Elective)
The student will actively participate in the clinical office, inpatient consultations, and surgery with the attending staff at St. Louis Children’s Hospital. Care would be taken to provide experience in the common problems one would see in primary care pediatrics or family practice. Participation in sub-specialty/multidisciplinary clinics such as the Cleft and Craniofacial clinic is encouraged. Opportunity will be provided to learn the fundamentals of audiological evaluation. Students participating in this elective will attend academic conferences in both the pediatric and adult divisions.

M55 Oto 804 Otolaryngology (Clinical Elective)
Four-week rotation includes evaluation of ENT problems presented to specialist for diagnosis and treatment. The student participates in the clinic, hospital, and operating room. This may also include time on the Pediatric ENT Service, Audiology, Voice Laboratory, and Vestibular Evaluation Laboratory. Option of rotation on the ENT Service at VAMC is possible.

M55 Oto 833 Ambulatory Otolaryngology for the Primary Care Physician (Clinical Elective)
This course offers a four-week exposure to ambulatory care of patients with diseases of the head and neck. Eight half-day sessions per week will be offered in attending clinics for general otolaryngology, head and neck cancer, otology, and pediatric otolaryngology. Two half-day sessions are reserved for audiology, vestibular lab, and voice lab experience. Surgical exposure is available for selected cases as identified by the student and attending physician, but the main goal of this rotation is outpatient diagnosis and management.

M55 Oto 910 Otolaryngology Advanced Clinical Rotation (ACR)
The Otolaryngology Advanced Clinical Rotation (ENT-ACR) is a four-week rotation designed to provide a comprehensive sub-internship otolaryngology experience during the Phase III Gateway WUSM Curriculum. The rotation can accommodate 1 student per month. Student assessments will be competency-based evaluating performance in patient care, communication, technical skills, professionalism, and medical knowledge. Students will primarily rotate through the adult Head and Neck Service at Barnes-Jewish Hospital, Pediatric Otolaryngology Service at St. Louis Children’s Hospital, and may include time at the John Cochran VA hospital. The services at Barnes and Children’s have the highest inpatient census amongst the Otolaryngology sub-specialties. A typical day will begin with morning rounds alongside the Otolaryngology residents. The ENT-ACR student will be responsible for all care associated with assigned patients. This includes getting sign-out from the overnight call team, obtaining vitals, communicating plans with nursing and auxiliary care providers, and helping residents with progress notes and orders. Throughout the day the student will be expected to maintain communication with nursing and other medical teams assisting in the care of those patients and communicating those updates with the otolaryngology residents and attendings. During the day, the student will be expected to spend time in the operating room, clinic, and shadowing the on-call consult resident. There will be an expectation to take at least one overnight or 24 hour call during the rotation. Additional weekend assistance with rounds and cases will mirror internship expectations. The ENT-ACR is a sub-internship experience. As such, the student will get hands on practice with patient care, common bedside procedures (e.g. flexible nasolaryngoscopy; control of epistaxis; laceration repair), assisting in the operating room, and continuity of care via the clinic and inpatient rounding. The Head and Neck and Pediatric Services will provide much of the ENT-ACR student’s exposure due to the relative complexity and multidisciplinary care of their patients. The students will stay at Barnes-Jewish Hospital, St. Louis Children's, or the VA and will not be rotating at our satellite offices. When appropriate there may be opportunity to spend time on other Otolaryngology sub-specialties.

(Otolaryngology/Neurotology; Rhinology; Laryngology; Facial Plastics; General Otolaryngology), however greater exposure to those fields should be sought via other ENT electives that have been designed as a complimentary experience to the ENT-ACR. To assist the rotating ENT-ACR student, there will be one meeting with a course director at the beginning of the rotation. This meeting is to serve as an introduction, set clear expectations, confirm the schedule, and provide relevant educational resources. There will be a second meeting with a course director at the end of the rotation to provide two-way feedback on the student’s performance and the rotation experience. Credit 140 units.