Department of Neurology

Neurology concerns itself with the diseases of brain, spinal cord, peripheral nerves and muscles. An introduction to the anatomy and physiology of the nervous system is presented in the first-year neuroscience course by faculty from the Department of Neuroscience (http://neurosci.wustl.edu), with participation of faculty from the Department of Neurology (http://neuro.wustl.edu). A first-year selective titled Clinical Correlations in Neurosciences (FYSelect 5017) is available, which is an opportunity for interested students to shadow physicians in neuro-related fields and attend basic science or clinical conferences. Another first-year selective titled Alzheimer's Disease (AD) in the Clinic and the Lab is also available, which is an opportunity for interested students to get an overview of the most exciting areas of AD clinical and science research. In the second year, the Department of Neurology presents the course Diseases of the Nervous System (Neurol 632) in conjunction with the departments of Pathology & Immunology (http://pathology.wustl.edu), Neurosurgery (http://neurosurgery.wustl.edu) and Ophthalmology & Visual Sciences (http://ophthalmology.wustl.edu). The course emphasizes the pathophysiology, pathology, clinical manifestations and treatment of the major neurological and neurosurgical diseases. The department also participates in the Practice of Medicine course, providing lectures, demonstrations and teaching exercises with patients in neurological physical diagnosis.

For more information about the Department of Neurology and its thirteen divisions, please visit the department website.

Website: https://neuro.wustl.edu/education

Degrees & Requirements

While the Department of Neurology does not offer its own degree, some of the department's courses are open to students in the MD and MSTP (MD/PhD) programs. Further information about the MD and MSTP degrees can be found in the Degrees & Programs Offered (http://bulletin.wustl.edu/medicine/degrees) section of this Bulletin.

Research

M35 Neurol 900

In the fourth year, opportunities exist for many varieties of advanced clinical or research experience.

Beau Ances, MD
Taylor Avenue Building Extension, 2nd Floor
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Neuroimaging of Neurodegenerative Disorders. Students can work in a neuroimaging laboratory that is focused on translational discovery of neuroimaging biomarkers for neurodegenerative diseases. The laboratory focuses on the pathogenesis of Alzheimer's disease (AD) and HIV-associated neurocognitive disorders (HAND). We are investigating the effects of neurodegenerative diseases on brain network level using functional (blood oxygen level dependent imaging, arterial spin labeling), structural (volumetrics, diffusion tensor imaging), and metabolic (PET amyloid and tau). Multiple projects that involve bioengineering, neuroimaging, and infectious disease are available depending on the interest of the student.

Randall Bateman, MD
Biotechnology Center, Room 304
Phone: 314-747-7066

Central nervous system protein metabolism in aging and dementia. This research elective will expose the student to translational research in the study of Alzheimer's disease. The student will participate in multiple areas of the research including participant consent, enrollment, and admission to a research hospital unit. Lumbar catheter placement and CSF sample collection will be demonstrated. The student will participate in sample analysis including processing for mass spectrometry quantitation, ELISA, and western gel methods. Quantitation, analysis and modeling of the data will be taught in the context of data interpretation and study design.

Anne H. Cross, MD, and Laura Piccio, MD, PhD
McMillan, 3rd Floor
Phone: 314-747-4591 or 314-747-0405

Understanding interactions of the immune system with the central nervous system as it relates to multiple sclerosis and other neuroimmunological disorders. Our goal is to understand how immune cells cross the blood-brain barrier and initiate the cascade of events leading to lesions of multiple sclerosis. We are also funded to study the effects of diet and adipokines on neuroinflammation. Depending upon the time commitment of the student and their individual interests and goals, they will either assist with ongoing projects or be given a laboratory project on which to work. Projects may involve animal models for MS, cell culture or studies of human samples (CSF, blood, autopsied specimens). Interested students should contact Dr. Cross (cросса@neuro.wustl.edu) or Dr. Piccio (picciol@neuro.wustl.edu) several weeks in advance before signing up for this research to allow for sufficient planning.

Robert T. Naismith, MD
McMillan, Room 310B
Phone: 314-747-0432

Clinical Imaging Research in Multiple Sclerosis (8 weeks). The student will learn about neuroimaging, imaging analyses, data collection, data management, and clinical study endpoints in multiple sclerosis (MS). They will observe patient participants undergoing a detailed evaluation of disability measures, such as ambulation, symptom scales, cognition, vision, upper extremity function, etc. They will witness the entire process of image acquisition, processing, analyses, and data extraction. They
will have the opportunity to interact with many people who are vital to the research, including research coordinators, imaging technologists, imaging physicists/chemists, and specialized research clinicians (i.e., neurocognitive and physical therapy research specialists).

The student will assist with hands-on clinical investigative research. They will gain an excellent appreciation of MS, from its pathophysiology within the central nervous system, to how it affects the neurological function of individuals. Through detailed and quantitative imaging analysis, the student will become very adept at analyzing brain MRI scans. They will mark and track lesions, determine their effects on clinical function, normal appearing white matter, cortex and gray-matter structures. They will become familiar with Amira Imaging Analysis Software, SPSS Statistical Analysis Software, SIENA Volume Analysis Software, and Matlab Imaging Analysis Software.

Steven E. Petersen, PhD
East Building, Room 2108
Phone: 314-362-3319
This lab is interested in brain organization and function, particularly for language, attention, and memory. Our main approaches to these issue is through functional MRI and large-scale network analysis.

Joel S. Perlmutter, MD
East Building, 2nd Floor
Phone: 314-362-6026
Pathophysiology of Movement Disorders. The lab is primarily interested in etiology, pathophysiology and treatment of basal ganglia disorders. We have several studies of PD. We investigate mechanisms of action of deep brain stimulation, a dramatic new treatment. These studies combine PET, cognitive testing and quantified measures of movement. We also test new drugs that might rescue injured nigrostriatal neurons (a model of PD). For these, we use PET to measure dopamine pathways and also quantify motor behavior. We also have an active program developing and validating neuroimaging biomarkers for PD and integrity of the nigrostriatal pathway that includes studies in people and animal models of PD. We have an active program combining a variety of approaches to develop biomarkers and investigate the pathophysiology of dementia associated with PD. We use PET to measure radioligand binding and sensorimotor processing in dystonia. We developed a new animal model of dystonia to investigate pharmacologic and physiologic changes. We use PET to investigate drug-mediated pathways in the brain and parse out the effects of selective dopaminergic agonists. We also are working to develop MR-based methods including DTI and resting-state functional connectivity to investigate brain mechanisms underlying PD and dystonia.

Brad A. Racette, MD
McMillan, 9th Floor
Phone: 314-362-5291
Our lab is primarily interested in environmental risk factors associated with Parkinson's disease. We use a variety of techniques to study these risk factors, including traditional field epidemiology in which we evaluate workers exposed to metals in the U.S. and residents living near a smelter in South Africa, neuroimaging where we study the pathophysiology of toxin-mediated parkinsonism, geographic information systems research where we associate environmental toxin exposures with incident and prevalent Parkinson's disease in the U.S. and Finland, and neuropathologic studies in manganese-exposed workers from South Africa. There are numerous opportunities available for students to be involved with any of these projects. Students will have some clinical exposure, as well, to familiarize them with pertinent clinical syndrome.

Marcus E. Raichle, MD
Neuro Imaging Laboratory – East Building, 2nd Floor
Phone: 314-362-6907
In vivo brain hemodynamic, metabolic and functional studies of human cognition and emotion using cyclotron-produced isotopes and emission tomography (PET) as well as functional magnetic resonance imaging (fMRI) in humans. Refer also to the listing on this page for Steven E. Petersen, PhD.

Gregory Wu, MD, PhD
McMillan, 3rd Floor
Phone: 314-362-3293
Understanding how immune responses are generated that target the central nervous system. Specifically, studies on antigen presentation cell contributions to autoimmune animal models of multiple sclerosis. Our goal is to understand what cellular interactions are critical to the development of immune-mediated demyelination.

Faculty

Department Chair

David Holtzman, MD

Visit our website for more information about our faculty (https://neuro.wustl.edu/about-us/physician-faculty-directory) and their appointments.

A

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MS Queen’s University 2006  
BS Queen’s University 2003

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JD University of Texas Austin 1998  
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MS Univ of Texas San Antonio 2002
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Assistant Professor of Neurology (primary appointment)
MD Humboldt University 2001

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PHD Washington Univ in St. Louis 1977
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**H**

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Professor of Occupational Therapy
Professor of Physical Therapy
Professor of Radiology
BA Princeton University 1975
MD University of MO Columbia 1979

Alan Pesteonk, MD

Professor of Neurology (primary appointment)
Professor of Pathology and Immunology
MD Johns Hopkns University Medic 1970
BA Princeton University 1966

Daniel Phillips, BE, MD
Assistant Professor of Clinical Neurology (primary appointment)
BE Northwestern University 1982
BS Northwestern University 1976
MD Washington Univ in St. Louis 1980

Chia Ling Phuah, MD, MS, MS1
Assistant Professor of Neurology (primary appointment)
MD Cambridge University 2006
MS Harvard University 2016
BS Cambridge University 2003
MS1 Cambridge University 2007

Laura Piccio, MD
Associate Professor of Neurology (primary appointment)
MD University of Milan 1997

Stephanie K Powell, PHD, MS
Instructor in Clinical Neurology (primary appointment)
PHD Univ of Wisconsin Milwaukee 2004
BS University of Notre Dame 1994
MS Univ of Wisconsin Milwaukee 2000

William John Powers, MD
Adjunct Professor of Neurology (primary appointment)
MD Cornell University 1975
BA Dartmouth College 1971

Brad Alan Racette, MD
Robert Allan Finke Professor of Neurology (primary appointment)
Executive Vice Chair of Clinical Affairs, Department of Neurology
BA Princeton University 1988
MD Northwestern University 1992

David Martin Reisler, M PH, MD
Assistant Professor of Clinical Neurology (primary appointment)
M PH Johns Hopkns University Medic 1971
MD Washington Univ in St. Louis 1961
BA Harvard University 1957

Dave A Rengachary, MD
Instructor in Clinical Neurology (primary appointment)
BA Northwestern University 1996
MD Northwestern University 2000

Terri L Riutcel, MD
Associate Professor of Neurology (primary appointment)
BS University of MO Columbia 1991
MD Vanderbilt University 1995

Catherine M Roe, MA, PHD
Associate Professor of Neurology (primary appointment)
MA Southern Illinois University 1990
BA Purdue University 1986  
PHD Southern Illinois University 1992  

James R Rohrbough, MD  
Associate Professor of Clinical Neurology (primary appointment)  
Associate Professor of Clinical Pediatrics  
BA Yale University 1971  
MD Ohio State University 1974  

Rimma Ruvinskaya, MD  
Associate Professor of Neurology (primary appointment)  
MD Leningrad Inst of Peds Med 1985  
BA School Not Listed 1979  

Robin C Ryther, MD, PHD  
Assistant Professor of Neurology (primary appointment)  
MD Vanderbilt University 2006  
PHD Vanderbilt University 2004  
BS University of MO Columbia 1998  

Chihiro Sato, PHD, MS  
Instructor in Neurology (primary appointment)  
PHD University of Tokyo 2008  
BS University of Tokyo 2003  
MS University of Tokyo 2005  

Andrew David Sauerbeck, PHD  
Instructor in Neurology (Pending Dean's Approval) (primary appointment)  
BS University of Kentucky 2005  
PHD University of Kentucky 2011  

Anneliese M Schafer, PHD, JD, BBA  
Professor of Neurology (primary appointment)  
PHD Washington Univ in St. Louis 2001  
JD Washington Univ in St. Louis 1988  
BBA Washington Univ in St. Louis 1985  

Suzanne E. Schindler, MD, PHD  
Assistant Professor of Neurology (primary appointment)  
BS Millsaps College 1999  
MD Washington Univ in St. Louis 2008  
PHD Washington Univ in St. Louis 2008  

Bradley L Schlaggar, PHD, MD  
A Ernest and Jane G Stein Professor of Neurology (primary appointment)  
Professor of Neuroscience  
Professor of Pediatrics  
Professor of Psychiatry  
Professor of Radiology  
PHD Washington Univ in St. Louis 1994  
MD Washington Univ in St. Louis 1994  
BS Brown University 1986  

Earl R Schultz, MD  
Professor of Clinical Neurology (primary appointment)  
Associate Professor of Clinical Psychiatry  

BA Southeast Missouri St Univers 1952  
MD Washington Univ in St. Louis 1955  
BS University of Missouri 1953  

Christian T Sheline, PHD  
Adjunct Research Associate Professor of Neurology (primary appointment)  
PHD University of California 1989  
BA Dartmouth College 1983  

Gordon L Shulman, MS, PHD  
Professor of Neurology (primary appointment)  
MS University of Oregon 1977  
PHD University of Oregon 1979  
BA Yale University 1975  

Eli R Shuter, MD  
Associate Professor of Clinical Neurology (primary appointment)  
BA Cornell University 1956  
MD Washington Univ in St. Louis 1960  

Todd B Silverman  
Instructor in Clinical Neurology (primary appointment)  

Barry A. Singer  
Assistant Professor of Clinical Neurology (primary appointment)  

Christopher D Smyser, MD  
Assistant Professor of Neurology (primary appointment)  
Assistant Professor of Pediatrics  
Assistant Professor of Radiology  
MD University of Iowa 2004  
BS University of Iowa 1998  

Barbara Joy Snider, PHD, MD  
Professor of Neurology (primary appointment)  
PHD University of Texas Southwest 1989  
BA Northwestern University 1979  
MD University of Texas Southwest 1989  

Richard Brian Sommerville, MD  
Associate Professor of Neurology (primary appointment)  
MD Columbia University 2005  
BS Harvard University 1999  

Tara V. Spevack, PHD, MS  
Instructor in Clinical Neurology (primary appointment)  
PHD University of Florida 1997  
BS McGill University 1987  
MS University of Florida 1994  

Sandra L Tate, MD  
Instructor in Clinical Neurology (primary appointment)  
MD Southern Illinois University 1987  

Mengesha A Teshome, MD  
Instructor in Neurology (primary appointment)  
MD Addis Ababa University 1989
Kwee L Thio, PHD, MD
Professor of Neurology (primary appointment)
Professor of Neuroscience
Professor of Pediatrics
PHD Washington Univ in St. Louis 1992
BS Brown University 1984
MD Washington Univ in St. Louis 1992

Jeffrey B. Titus, PHD, MA
Assistant Professor of Clinical Neurology (primary appointment)
PHD Ball State University 2002
MA University of Northern Colora 1999
BS Evangel College 1997

Stuart Ramm Tomko, MD
Assistant Professor of Neurology (primary appointment)
MD Baylor College of Medicine 2010
BS Davidson College 2005

Norman Edwin Trevathan III, MS, MD
Adjunct Professor of Neurology (primary appointment)
MS Emory University 1982
BS David Lipscomb University 1977
MD Emory University 1982

Angela M Tripp
Assistant Professor of Clinical Neurology (primary appointment)

Jason Daniel Ulrich, PHD
Assistant Professor of Neurology (primary appointment)
BS Quincy College 2004
PHD University of Iowa 2011

Mwiza Ushe, MS, MD
Assistant Professor of Neurology (primary appointment)
MS Washington Univ in St. Louis 2007
BS University of Pittsburgh 2000
MD Washington Univ in St. Louis 2007

Renee Bailey Van Stavern, MD
Professor of Neurology (primary appointment)
BA Texas A&M University 1991
MD Univ Texas Health Science Ctr 1997

Arun S. Varadhachary, MD, PHD
Associate Professor of Neurology (primary appointment)
MD Temple University 2004
PHD Temple University 2001

Oksana Volshteyn, MD
Professor of Neurology (primary appointment)
Professor of Medicine
MD Minsk State Medical Institute 1976

Andrew M. Wayne, MD
Instructor in Clinical Neurology (primary appointment)
MD University of Missouri 1993
BS University of CA Riverside 1989

Ling Wei, MD
Adjunct Research Assistant Professor of Neurology (primary appointment)
MD Beijing Medical University 1977

Conrad Christian Weihl, MD, PHD
Associate Professor of Neurology (primary appointment)
MD University of Chicago 2001
BS University of Illinois 1993
PHD University of Chicago 1998

Howard I Weiss, MD
Assistant Professor of Clinical Neurology (primary appointment)
MD Tulane University 1972

Nicole Joy Werner, MS, PHD
Associate Professor of Neurology (primary appointment)
BS Univ of Minnesota Twin Cities 1997
MS Saint Louis University 2000
PHD Saint Louis University 2004

Robert L. White III
Instructor in Neurology (Pending Executive Faculty Approval) (primary appointment)
BS Washington Univ in St. Louis 1999

Michael Wong, MD, PHD
Allen P and Josephine B Green Professor of Pediatric Neurology (primary appointment)
Professor of Neuroscience
Professor of Pediatrics
MD University of Texas Southwest 1995
BA Princeton University 1987
PHD University of Texas Southwest 1995

Gregory Frederick Wu, MD, PHD
Assistant Professor of Neurology (primary appointment)
Assistant Professor of Pathology and Immunology
MD University of Iowa 2001
BS Washington Univ in St. Louis 1993
PHD University of Iowa 2001

Carla Marie Yuede, PHD
Assistant Professor of Neurology (primary appointment)  
PHD University of MO St Louis 2006

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Craig Mitchell Zaidman, MD  
Associate Professor of Neurology (primary appointment)  
Assistant Professor of Pediatrics  
MD University of Virginia 2001

Allyson R Zazulia, MD  
Professor of Neurology (primary appointment)  
Associate Dean for Continuing Medical Education  
Professor of Radiology  
BS University of Maryland 1990  
MD Georgetown University 1994

John M Zempel, PHD, MD  
Professor of Neurology (primary appointment)  
Professor of Pediatrics  
PHD Washington Univ in St. Louis 1995  
BS Univ of Wisconsin Madison 1985  
MD Washington Univ in St. Louis 1995

Lirong Zhu, PHD, MD  
Assistant Professor of Clinical Neurology (primary appointment)  
PHD Baylor College of Medicine 2006  
MD Fudan University 2000

Courses


M35 Neurol 554 Neural Science

Neural Science is an intensive seven-week course that covers the structure, function and development of the nervous system as seen from molecular, cellular and systems-oriented perspectives. The emphasis is on the organization and function of the nervous system in health, but there is frequent reference to the clinical relevance of material presented. The course includes regular lectures, conference sessions and laboratories, plus a number of clinically oriented presentations and Special Topics sessions that address selected issues in greater depth. Computer-aided instructional programs, accessible from a variety of locations, provide auxiliary modes of self-paced learning and review. The midterm and final emphasize the core body of important facts and principles presented in lectures and laboratories. Limited space is available for non-medical students with instructor’s permission. Non-medical students should register under the cross-listed number L41 Biol 554 (spring only).  
Credit 109 units.

M35 Neurol 632 Diseases of the Nervous System

The goal of this course is to provide an introduction to the diseases of the central and peripheral nervous systems, including their clinical manifestations, pathology, pathophysiology and pharmacotherapy. The course includes reading assignments, lectures, laboratories, conferences and clinical presentations.

Credit 53 units.

M35 Neurol 720 Neurology Clerkship

A full-time, four-week clerkship is provided on the neurology services at Barnes-Jewish Hospital. Patients are assigned to students who evaluate and follow them with the resident staff and discuss them regularly in conferences with the senior neurological staff. Students also work in the neurology clinic under staff supervision and attend a series of lectures on neurosurgical problems.  
Credit 154 units.

M35 Neurol 730 Physical Medicine and Rehabilitation Clerkship

Clerkship in PM&R for third-year medical students provides an opportunity to gain basic knowledge and clinical skills in evaluation and management of a wide range of neurological and musculoskeletal diseases and conditions that require specialized rehabilitative medical and therapeutic care. Students spend two weeks on Spinal Cord Injury Unit (SCI) and two weeks on Brain Injury (BI) & Stroke Unit at The Rehabilitation Institute of St. Louis. Students are expected to be a part of the rehabilitation team, follow two to three patients, participate in daily morning rounds, participate in performing consults, attend team meetings and family conferences. Students are required to attend all PM&R curriculum lectures and conferences. On the first day of rotation, students meet with the PM&R program director to go over goals, objectives and schedules. Upon completion of the rotation, students are required to fill out the evaluation form to provide feedback regarding rotation experience.  
Credit 154 units.

M35 Neurol 827 Neurology Sub-Internship for WUSM Students

This four-week elective will be customized to include inpatient and outpatient experiences desired by WU students who have completed the WU Neurology Clerkship. Students may choose this elective to further improve their neurology knowledge and skills. Students considering neurology as a career may also desire additional exposure to supplement their prior clerkship experience. The elective is split into two two-week rotations which may include: 1. Adult Inpatient General Service (with one clinic/week) 2. Adult Inpatient Stroke Service (with one clinic/week) 3. Adult Inpatient Consult Service (with one clinic/week) 4. Pediatric Neurology Consult Service (with one clinic/week) 5. Adult Neurology ICU (with one clinic/week) 6. Outpatient Clinics (with 5-10 clinics/week).  
Credit 154 units.

M35 Neurol 828 Neurology Sub-Internship for Visiting US Medical Students

This four-week elective for fourth-year visiting students from a U.S. medical school provides the option (space permitting) of four weeks of Adult Inpatient Service (Stroke for two weeks, General Neurology for two weeks), or two weeks on an Adult Inpatient Service and two weeks on the Adult Consult Service. Students on the inpatient service will function as a Sub-Intern under the supervision of their junior resident, chief resident, and attending physician. The student will also attend weekly clinical
and work with a variety of attendings in order to experience the

M35 Neurol 830 Neuro-Oncology
Provide an outpatient-oriented combined pediatric and adult
neuro-oncology experience for fourth-year medical students.
1. Attend multidisciplinary adult and pediatric neuro-oncology
clinics and case conferences (tumor boards); 2. Attend adult and
pediatric radiation oncology clinics; 3. Attend neuropathology
brain tumor review; 4. Participate in subspecialty brain tumors;
5. Attend monthly brain tumor research conferences.

M35 Neurol 851 Clinical Aspects of Aging and Dementia
This elective provides the opportunity to learn about clinical
research and clinical care in health brain aging and dementia.
Students should contact the course directors to discuss this,
as this elective is customized based on student interests. This
can be a two-week or four-week elective. Students can gain
proficiency in interviewing techniques and in the neurologic
examination of the geriatric patient, and be introduced to
neuropsychology, neuropsychiatry, biomarkers, neuroimaging,
genetics, and other biomedical procedures important in the
diagnostic evaluation of older adults. The Knight Adrc is
an interdisciplinary group, so students have the opportunity
to interact with physicians, nurse clinicians, psychologists
and social workers, and to explore the neuropsychology,
neuropathology, biomarkers, neuroimaging, genetics, and other
biomedical procedures used in the diagnosis of dementia
problems such as Alzheimer’s disease, dementia with Lewy
bodies, frontotemporal dementias, cerebrovascular disorders,
and affective disorders.

M35 Neurol 859 Neonatal Neurology
The Neonatal Neurology elective will consist of a combination of
inpatient and outpatient experiences designed to provide medical
students with comprehensive exposure to the field. Through
the rotation, students will actively participate in all aspects of
patient care, acquiring the knowledge and skill necessary to
effectively manage infants with neurological disorders, including
encephalopathy, stroke, seizures, hypotonia, intraventricular
hemorrhage, and periventricular leukomalacia, among others.
Clinical activities will be tailored to fit the interests and goals of
the individual student and include a combination of inpatient
and outpatient exposures. Inpatient activities will occur in the St.
Louis Children’s Hospital Neonatal Intensive Unit as part of the
Neonatal Neurology Consultation service. Outpatient activities
will occur in the St. Louis Children’s Hospital Outpatient Clinics.
Students will also attend educational conferences specific to the
field during the rotation, including Neonatal Neurology Clinical
Conference and Neonatal Neuropsychology Conference.

M35 Neurol 860 Pediatric Neurology
The senior elective experience in child neurology is designed
to adapt to the individual goals and objectives of students. The
 elective takes place in two 2-week blocks that occur among
five possible venues as chosen by the student: (1) Outpatient
clinics, (2) Inpatient ward service, (3) Inpatient general consult
service, (4) NICU consult service, and (5) Video EEG (VEEG)
monitoring service. The combination of services and experiences
will be arranged directly between the student and the course
director prior to beginning the rotation. In the outpatient clinics,
students will rotate between a variety of subspecialty clinics
and work with a variety of attendings in order to experience the

M35 Neurol 861 Neuro-Oncology/Neurosurgery ICU
The student will be integrated into the Critical Care Team that
provides care in the Neurology/Neurosurgery ICU. Diseases
frequently encountered include intracerebral hemorrhage, head
trauma, subarachnoid hemorrhage, and stroke. The student
will follow patients, participate in rounds and perform some
procedures under supervision. Didactic sessions will be provided
as conferences or lectures from the ICU attending.

M35 Neurol 865 Adult and Pediatric Epilepsy
Students will learn how epileptologists diagnose and manage
epilepsy in adults and children. They will learn how to use
the history and physical exam and laboratory studies such as
EEG, MRI, PET, and SPECT to diagnose and manage patients
with new onset epilepsy, established epilepsy, and medically
intractable epilepsy. They will become familiar with the medical
management of epilepsy as well as the treatment options for
medically intractable epilepsy including surgery, the vagus nerve
stimulator, and the ketogenic diet. They will also learn how to
manage the co-morbid conditions that accompany epilepsy such
as depression, behavioral problems, cognitive impairment, sleep
disturbance, and non-epileptic events. Students will accomplish
these goals by attending epilepsy clinics and rounding on the
inpatient epilepsy service with the epilepsy team at Barnes-
 Jewish Hospital and St. Louis Children’s Hospital. They will
attend the Adult Epilepsy Conference, the Pediatric Epilepsy
Conference, and Neurology Grand Rounds. Students will also
have the opportunity to observe epilepsy surgery if they wish.
They will have the option to present one 15-30 minute talk on a
topic relevant to epilepsy.

M35 Neurol 872 MS Center/Outpatient - Missouri Baptist
Students will develop their skills in taking histories and performing
neurological examinations on patients with multiple sclerosis under direct supervision of multiple sclerosis
specialists. Localization of neurological findings and symptoms
to the neuro-axis will be emphasized. A major goal for the
students will be to increase the understanding of comprehensive
patient management including disease treatment, symptom
management, adjunctive therapy services, and psychosocial
issues. The outpatient rotation will be four weeks at The MS
Center for Innovations in Care at Missouri Baptist Medical Center
with Dr. Barry Singer and Dr. Mark Tullman. An additional goal for
students will be to understand process of clinical research
and translation into approved therapies. The center has been a
leader in clinical trial development of therapeutics that have been
or will soon be FDA-approved as new medications for multiple
sclerosis.
M35 Neurol 900 Research Elective - Neurology
Research opportunities may be available. If interested, please contact the Department of Neurology.