John T. Milliken
Department of Medicine

Instruction in Medicine is provided during all four years of the medical curriculum, beginning with Practice of Medicine I (Medicine 507) during the first year. Teaching in the second year has two main objectives: (1) the correlation of the basic sciences with clinical aspects of disease; and (2) training in the technical methods of physical examination and laboratory diagnosis. By the beginning of the third year, the student is ready for the supervised clinical study of individual patients. A clinical clerkship of 12 weeks, divided into three four-week periods, is served by third-year students on the medical services of the department. During the final year, students may select a sub-internship in general medicine and a series of elective courses in the medical specialties.

Website: https://internalmedicine.wustl.edu

Research

For information about Primary Care Summer Preceptorships (p. 4), please refer to the information at the bottom of this section.

M25 Medicine 900

Dana R. Abendschein, PhD
9924 Clinical Sciences Research Building
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Research in this translational physiology laboratory is focused on the development of novel antithrombotic approaches for use during acute myocardial infarction, stroke, and surgery in which vascular injury is an underlying mechanism. Current studies are designed to define the efficacy of targeting antithrombotics to the surface of injured vascular cells and activated platelets on thrombus progression. One approach uses nanoparticles covered with epitopes to bind exposed receptors on thrombus and containing inhibitors of coagulation or platelet activation. Students will be expected to participate in experiments using animal models and will develop skills in experiment design, vascular physiology, clinical antithrombotic therapy, coagulation, histopathology and statistics.

Nicholas O. Davidson, MD
910 Clinical Sciences Research Building, North Tower
Phone: 314-362-2027

Our focus is on the genetic pathways of nonalcoholic fatty liver disease (NAFLD) and colorectal cancer development. We have two major areas of research interest. Our laboratory is interested, first, in the molecular mechanisms of hepatic steatosis and the pathogenesis of NAFLD. This is the most prevalent liver disease in the United States, likely affecting a quarter of the population. We have generated genetically manipulated mouse strains that offer insights into the mechanisms of hepatic steatosis. The student would work as part of a team, designing and conducting experiments that will test hypotheses concerning the mechanisms and consequences of hepatic steatosis. These studies will primarily involve mouse genetics, examining the expression of candidate genes under a variety of nutritional and pharmacologic settings that modulate hepatic lipid metabolism. In addition, we are using microarrays to study the spectrum of genetic changes that may predict the extent of hepatic lipid accumulation in patients with steatohepatitis. Our goal is to test hypotheses using mouse genetics and to extend these studies to examine the same pathways in humans with NAFLD. Our second area of interest concerns the genetic pathways involved in colorectal cancer, the second leading cause of cancer-related deaths. We have developed a novel strain of mice in which the dominant effects of mutations in the APC tumor suppressor gene have been abrogated through deletion of an RNA binding protein, apobec-1. This deletion has a major effect on the expression of cox-2, abrogating the increase in expression seen in human colon adenomas and wild-type mouse intestinal adenomas. These findings suggest that apobec-1 is a genetic modifier of colon cancer development. We will study the importance of apobec-1 expression in human colon cancer specimens and continue our murine genetic studies of this novel pathway for modulating colon cancer development and progression.

A clinical research elective is offered in the evaluation of patients with complement deficiency or overactivity states and with undiagnosed rheumatic disease syndromes.

Roberto Civitelli, MD
BJC Institute of Health, 11th Floor, Musculoskeletal Research Center
Phone: 314-454-8408

Biology of cell-cell interactions and communication in bone via gap junctions and cell adhesion molecules; function of connexins and cadherins in transcriptional control of osteoblast differentiation, osteoclastogenesis, and mechanotransduction; modulation of mesenchymal lineage allocation and osteogenic differentiation by cadherins and beta-catenin signaling.

John P. Atkinson, MD
Clinical Sciences Research Building, 10th Floor
Phone: 314-362-8391

A clinical research elective is offered in the evaluation of patients with complement deficiency or overactivity states and with undiagnosed rheumatic disease syndromes.

Nicholas O. Davidson, MD
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Our focus is on the genetic pathways of nonalcoholic fatty liver disease (NAFLD) and colorectal cancer development. We have two major areas of research interest. Our laboratory is interested, first, in the molecular mechanisms of hepatic steatosis and the pathogenesis of NAFLD. This is the most prevalent liver disease in the United States, likely affecting a quarter of the population. We have generated genetically manipulated mouse strains that offer insights into the mechanisms of hepatic steatosis. The student would work as part of a team, designing and conducting experiments that will test hypotheses concerning the mechanisms and consequences of hepatic steatosis. These studies will primarily involve mouse genetics, examining the expression of candidate genes under a variety of nutritional and pharmacologic settings that modulate hepatic lipid metabolism. In addition, we are using microarrays to study the spectrum of genetic changes that may predict the extent of hepatic lipid accumulation in patients with steatohepatitis. Our goal is to test hypotheses using mouse genetics and to extend these studies to examine the same pathways in humans with NAFLD. Our second area of interest concerns the genetic pathways involved in colorectal cancer, the second leading cause of cancer-related deaths. We have developed a novel strain of mice in which the dominant effects of mutations in the APC tumor suppressor gene have been abrogated through deletion of an RNA binding protein, apobec-1. This deletion has a major effect on the expression of cox-2, abrogating the increase in expression seen in human colon adenomas and wild-type mouse intestinal adenomas. These findings suggest that apobec-1 is a genetic modifier of colon cancer development. We will study the importance of apobec-1 expression in human colon cancer specimens and continue our murine genetic studies of this novel pathway for modulating colon cancer development and progression.
The focus of this lab is on special projects in medical education. Through special arrangement with and approval by the course director, fourth-year students will participate in these projects. Typical projects will require approximately four weeks to complete. These four weeks can occur consecutively (preferred) or be spread out somewhat, as needed. Medical education projects should be aimed at improving the curriculum, the student experience, and/or the administration of the Internal Medicine clerkship or the sub-internship. Interested students should contact the course director via phone or email to discuss the proposed project. Those who are interested but who would like guidance in designing a project should also contact the course director. This is open only to Washington University School of Medicine students.

Bradley Evanoff, MD, MPH
Phone: 314-454-8638

Our primary interest is on occupational medicine epidemiology and intervention research. Our research involves the use of epidemiology methods to characterize associations between diseases and work-related exposures. We are also doing workplace intervention studies to prevent injuries and illnesses and to improve healthy diet and physical activity among working populations. During an elective in occupational medicine epidemiology research, students will learn how to use epidemiologic methods to investigate disease processes by working on a mutually agreed-on topic of interest related to occupational diseases. Other activities can include worksite visits and intervention projects as well as involvement with worksite health promotion and policy making. Elective length is variable, depending on individual circumstances. Please contact Dr. Evanoff to discuss this research.

Gregory I. Goldberg, PhD
Wohl Clinic, 4th Floor
Phone: 314-362-8172

Role of secreted extracellular matrix metalloproteases in tissue remodeling; structure and function of the metalloproteases.

Richard W. Gross, MD, PhD
4525 Scott Avenue, East Building
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Lipid mediators of signal transduction in the cardiovascular system; characterization of regulatory mechanisms responsible for the liberation of lipid second messengers during cellular activation; roles of phospholipases in mediating the metabolic syndrome and end-organ tissue damage.

Stacey House, MD, PhD
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Lisa Hayes
Phone: 314-362-4362
hayesl@wustl.edu

Emergency medicine clinical research is the primary focus of this lab. This type of research involves the gamut of research designs, from retrospective cohort studies ("The Use of B Hydroxy Butyrate Point-of-Care Testing in Diabetic Ketoacidosis") to prospective clinical trials ("Biomarkers in Traumatic Brain Injury") to the evaluation of health care systems and emergency department processes ("Effects of a Triage Process Conversion on the Triage of High Risk Presentations") to the analysis of health policy issues ("Rate of Follow-up to a Primary Care Clinic and Subsequent Emergency Department Utilization among an Urban ED Population"). Students will learn the basic clinical research designs and will be able to articulate the benefits and drawbacks of each. They will be involved in hypothesis generation and study design for projects that are at that stage. For ongoing projects, they will learn about the informed consent process and be involved in screening for study subjects and subject selection and enrollment. They will be allowed to consent for studies judged to be of minimal risk. Students will be taught important rules regarding data acquisition and entry, particularly as these relate to standards that have been set forth in the medical literature. They will learn about bias and inter-rater reliability. Students will participate in data entry, data analysis, and subsequent abstract/manuscript preparation based on their level of interest and time commitment. Students will meet weekly with one of the course directors to discuss study progress and to identify any roadblocks to study completion. These meetings will also serve as a forum for one-on-one education of the student regarding study methodology, ethical issues in research, and various resources available to the clinical researcher at Washington University.

Sandor J. Kovacs, MD, PhD
9965 Clinical Sciences Research Building
Phone: 314-362-8901

This experience is geared toward students with math, physics and engineering backgrounds. The cardiovascular biophysics research elective concentrates on physiologic modeling and the comparison of model predictions to in vivo human data. The minimum elective time is eight weeks.
Marc S. Levin, MD, and Deborah C. Rubin, MD  
922/924 Clinical Sciences Research Building  
Phone: 314-362-8933 or 314-362-8935  

Students will be members of a collaborative research team headed by Drs. Levin and Rubin (Department of Medicine) investigating the mechanisms underlying the intestinal adaptive response that occurs to compensate for the loss of functional small intestine. A second project focuses on epithelial-mesenchymal interactions and their role in regulating gut epithelial proliferation carcinogenesis and the normal and cancer stem cell niche. Specific mechanisms under investigation include the function of an immediate early gene Tis7 on gut adaptation after resection or injury. The role of myofibroblast protein epimorphin in regulating cell proliferation and colon carcinogenesis is being explored. The student will have the opportunity to learn basic molecular biology and physiology as they relate to small intestinal growth and function. Examples of techniques that are used in these studies include small animal surgery and colitis and cancer models (mice and rats), molecular biological techniques including PCR, Northern blotting, vector construction for the production of transgenic and knockout mouse models, in situ hybridization and immunohistochemistry.

Jason C. Mills, MD, PhD  
Clinical Sciences Research Building, North Tower, Room 1030  
Phone: 314-362-4213  

We investigate the differentiation of epithelial stem cells in the upper gastrointestinal tract. We study how genes regulate differentiation in mouse models and in vitro in tissue culture, and we correlate our findings with human tissue specimens. Specific projects include the following: (1) understanding how inflammation leads to aberrant differentiation (metaplasia), which is a precursor for cancer; (2) elucidating how master regulatory transcription factors like Xbp1 and Mist1 coordinate the massive cytoskeletal and organelar expansion of specialized secretory cells as they differentiate from stem cells; and (3) understanding the mechanisms that regulate how differentiated cells can be reprogrammed into stem cells in gastrointestinal organs like the stomach and the pancreas.

Richard E. Ostlund, MD  
8804 Wohl Hospital  
Phone: 314-362-8286  

Our laboratory focuses on the prevention and treatment of coronary heart disease by studying cholesterol absorption, detoxification and elimination from the body. Direct patient studies that use new stable isotopic cholesterol tracers and mass spectrometry techniques complement in vitro work on the biochemistry of cholesterol transport in cultured cells.

Russell Pachynski, MD  
BJC Institute of Health, 7th Floor  
Phone: 314-286-2341  

Our lab focuses on several aspects of tumor immunology and translational immunotherapy. We utilize mouse tumor models, human tissues and samples, and advanced molecular and immunologic techniques to study leukocyte trafficking in the setting of tumor development and progression. We also have projects focusing on developing novel immunotherapeutics aimed at augmenting the recruitment of beneficial leukocyte subsets into the tumor microenvironment in order to suppress tumor growth. We are utilizing several approaches, such as nanoparticles, fusion proteins and viruses.

Katherine Ponder, MD  
8818 Cancer Science Research Building  
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k ponder@wustl.edu  

The focus of this lab is on gene therapy for lysosomal storage diseases such as mucopolysaccharidosis (MPS). We have developed a retroviral vector that can be efficiently delivered to the liver of mice and dogs and that results in expression sufficient to reduce many of the clinical manifestations of these genetic diseases. Current studies focus on assessing the therapeutic effect of gene therapy on sites that are affected in MPS (e.g., heart, aorta, bones, joints) and on developing vectors that might be translated into human patients. In addition, we are evaluating the pathogenesis of disease in MPS, which appears to involve the upregulation of destructive proteases in the aorta and possibly other sites. A better understanding of the pathogenesis of disease might result in additional therapies for MPS.

Clay F. Semenkovich, MD  
Southwest Tower, 8th Floor  
Phone: 314-362-4454  

Fatty acid metabolism and its role in atherosclerosis, diabetes, hypertension and obesity; modulation of respiratory uncoupling for the treatment of aging, obesity and vascular disease.

Phyllis K. Stein, PhD  
Northwest Tower, Room 13116  
Phone: 314-286-1350  
p stein@wustl.edu  

This lab's main focus is on the clinical significance of heart rate variability and ECG-derived waveform parameters obtained from continuous ambulatory monitoring. This elective affords the student the opportunity to perform research in heart rate variability or in other measurements, like QT variability or T-wave alternans that can be derived from continuous ECG monitoring.
from Holter recordings or polysomnography recordings in the sleep lab. One area of active research is the identification of heart rate patterns associated with obstructive and central sleep apneas and hypopneas and the relationship of previously unappreciated cycling heart rate patterns and outcomes. Data are also available from mice. Many possible projects are available using our many large existing datasets, using the thousands of stored studies in the sleep lab, or using de novo data collection in a clinical or animal population and in infants. Also, many possible directions for this research are available, from applying traditional and nonlinear HRV to different populations to developing methods to quantify ultradian heart rate variability patterns to developing novel ECG analysis techniques, among others. Also, we are involved with the Cardiovascular Health Study (CHS), a large population-based longitudinal study of risk factors for heart disease and stroke among community-dwelling people more than 65 years old. There is a subset of this population who had Holter recordings (~1400 at baseline, ~800 of the same people five years later, and ~370 minority subjects recorded at the same time as the second CHS recording). These recordings have already been analyzed by us, so there is a large amount of heart rate variability and heart rate pattern data available. There are also subsets of patients from the CHS and from another study (EPHESUS) who are known to have died suddenly, and we have developed a matched control group in order to examine ECG-based differences in those who died suddenly. We also have electronic sleep studies at two time points for about 300 of the CHS Holter participants who also participated in the Sleep Heart Health Study. We have analyzed an additional ~1500 sleep studies from CHS participants who did not have Holter recordings. Thus, there is also an opportunity in the CHS dataset for studies of the relationship of heart rate variability with changes in heart rate variability over time and with a huge number of clinical and demographic factors among the elderly. We also have data on the relationship of Holter-based HRV and sleep apnea patterns to the development of atrial fibrillation after cardiac surgery as well as data from a study of the treatment of depression in treatment-resistant depressed post-MI patients, a study of sickle cell patients, and a study of heart rate variability and echo parameters in elderly African Americans. Currently, we are also analyzing HRV in premature infants as they mature and HRV as a predictor of response to treatment in babies in the NICU and PICU, using stored 24-hour bedside ECGs.

Heart rate variability and clinical outcomes: The student will be learning about HRV methods and will investigate the relationship of HRV and outcomes in one of our datasets. Because we have clinical and demographic data for about 20,000 subjects for whom continuous ECGs from Holter recordings, sleep studies, and ICU studies are available, as well as some mouse data, the student will be able to choose a project that may lead to a publishable result in an area of interest. The HRV Lab has enough computers and software to accommodate the needs of any interested students.
Lynn A. Cornelius, MD  
Winfred A. and Emma R. Showman Professor of Dermatology in Medicine  
Chief, Division of Dermatology

Jeffrey S. Crippin, MD  
Marilyn E. Bornfeld Chair in Gastrointestinal Research and Treatment  
Professor of Medicine  
Associate Chair for Clinical Programs

Nicholas O. Davidson, MD  
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Chief, Division of Gastroenterology

John F. DiPersio, MD, PhD  
Virginia E. and Sam J. Golman Professor of Medicine  
Chief, Division of Oncology

Bradley A. Evanoff, MD, MPH  
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Chief, Division of General Medical Sciences

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Adolphus Busch Professor of Medicine and Chairman

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Visit our website for more information about our faculty (https://internalmedicine.wustl.edu/divisions) and their appointments.
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MD University of Illinois 1978

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Professor of Medicine (primary appointment)  
Professor of Occupational Therapy  
MD Washington Univ in St. Louis 1981  
BA Davenport University 1977

William D Birenbaum, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1978  
MD University of Missouri 1983

Clifford Allen Birge, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1961  
BA Amherst College 1956

Thomas M Birkenmeier, MD  
Assistant Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 1982  
BA Washington Univ in St. Louis 1978
Kumar Sanjeev Bishnupuri, PHD, MS  
Instructor in Medicine (primary appointment)  
PHD Banaras Hindu University 1999  
MS Banaras Hindu University 1992  
BS Tilka Manjhi Bhagalpur Univ 1988  

Valerie Blanc, PHD, MS  
Instructor in Medicine (primary appointment)  
PHD University of Bordeaux 2 1996  
MS University of Bordeaux 2 1992  

Elizabeth Joy Blaney, MD  
Assistant Professor of Medicine (primary appointment)  
BA Eastern Michigan University 2003  
MD Ohio State University 2007  

Morey A Blinder, MD  
Professor of Medicine (primary appointment)  
Professor of Pathology and Immunology  
MD Saint Louis University 1981  
BS University of Notre Dame 1977  

Sydney Lynn Blount, MD  
Instructor in Medicine (primary appointment)  
MD University of Nebraska 2016  
BS Nebraska Wesleyan University 2012  

Donald Allen Blum  
Assistant Professor of Clinical Medicine (primary appointment)  

Imre Bodo  
Adjunct Instructor in Medicine (primary appointment)  

Michael Bolger  
Instructor in Clinical Medicine (primary appointment)  

Matthew James Bonzelet, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 2009  

Adrianus C Boon, MS, PHD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Molecular Microbiology  
Associate Professor of Pathology and Immunology  
MS University of Amsterdam 1997  
PHD Erasmus University Rotterdam 2003  

Candice Beth Booth, MD  
Instructor in Emergency Medicine in Medicine (primary appointment)  
MD University of MO St Louis 2004  
BA Univ of IL -Urbana-Champaign 2000  

Jamie Marie Borgmann  
Instructor in Clinical Medicine (primary appointment)  

Benjamin A Borowsky, MD  
Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1958  

Jonathan D Bortz, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of the Witwatersra 1979  

Ron Bose, PHD, MD, PHD1  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Cell Biology and Physiology  
BS University of Rhode Island 1991  
PHD Cornell University 1998  
MD Cornell University 1999  
BA University of Rhode Island 1991  
PHD1 Cornell University 1998  

Matthew S Bosner, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD University of Texas Austin 1983  
BS Muhlenberg College 1979  

William G Bowen, MD  
Associate Professor of Clinical Medicine (primary appointment)  
MD University of North Carolina 1974  
BS Davidson College 1970  

Lyndsey Jean Bowman, PHD  
Adjunct Instructor in Medicine (primary appointment)  
PHD St Louis College of Pharmacy 2005  

Sabina A Braithwaite, MD, MPH  
Associate Professor of Emergency Medicine In Medicine (primary appointment)  
MD Medical College of Virginia 1991  
BS Georgetown University 1986  
MPH University of South Florida 2009  

Joseph Brancheck, MD  
Instructor in Medicine (primary appointment)  
MD University of Illinois 2013  

Richard D. Brasington Jr, MD  
Professor of Medicine (primary appointment)  
Professor of Ophthalmology and Visual Sciences  
BA Harvard University 1974  
MD Duke University 1980  

Alan C Braverman, MD  
Alumni Endowed Professor of Cardiovascular Disease In Medicine (primary appointment)  
MD University of Missouri 1985  
BA University of MO Kansas City 1984  

Andrea Lynn Bredemeyer, PHD  
Instructor in Medicine (primary appointment)  
BA Colby College 1999  
PHD Washington Univ in St. Louis 2006  

Audrey Brenot, MS, BS1, PHD  
Instructor in Medicine (primary appointment)  
MS University of Paris 1997  
BS University of Paris 1996  
BS1 University of Paris 1995  
PHD University of Paris 2001
Thomas J. Brett, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Biochemistry and Molecular Biophysics
Associate Professor of Cell Biology and Physiology
BS North Dakota State University 1992
PHD University of Nebraska 1999

Matthew Brinkmeier, BS1, MD
Instructor in Medicine (primary appointment)
BS1 Washington Univ in St. Louis 2001
MD Washington Univ in St. Louis 2007

Natalia Brito Rivera, MD
Instructor in Medicine (primary appointment)
BA Cornell University 2011
MD Washington Univ in St. Louis 2016

Steven L Brody, MD
Dorothy R and Hubert C Moog Professor of Pulmonary Diseases
in Medicine (primary appointment)
Professor of Radiology
MD University of Michigan 1980

Rita Thomas Brookheart, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Pediatrics
BA Sweet Briar College 2003
PHD Washington Univ in St. Louis 2009

Christopher B. Brooks, MD
Associate Professor of Emergency Medicine in Medicine
(primary appointment)
MD Georgetown University 1982

Angela L Brown, MD
Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1992
BS Southern Methodist University 1987

David L. Brown, MD
Professor of Medicine (primary appointment)
MD Baylor University 1982
BA University of Texas Austin 1977

Jeffrey Wade Brown, PHD, MD
Instructor in Medicine (primary appointment)
PHD Boston University 2012
MD Boston University 2012

Lawrence R Brown, MD, PHD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Washington Univ in St. Louis 1990
BS Univ of Wisconsin Madison 1982
PHD Washington Univ in St. Louis 1989

Robert M Bruce, MD
Professor of Clinical Medicine (primary appointment)
BS University of Minnesota 1968
BA Washington Univ in St. Louis 1964

MD University of Minnesota 1968

Kathleen S Brunts, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1981
BS Western Michigan University 1977

Stanley Buck, MD
Instructor in Clinical Medicine (primary appointment)
BS Princeton University 1973
MD Washington Univ in St. Louis 1977

Philip J Budge, PHD, BS1, MD
Assistant Professor of Medicine (primary appointment)
PHD Vanderbilt University 2003
BS Brigham Young University 1998
BS1 Brigham Young University 1998
MD Vanderbilt University 2007

Benjamin Paul Buettner, MD
Instructor in Medicine (primary appointment)
BS Miami University 2012
MD Wright State University 2016

Scott H Burner, MD
Associate Professor of Emergency Medicine in Medicine
(primary appointment)
MD Medical University of Sth Car 1978

Jason P Burnham, BS1, MD
Assistant Professor of Medicine (primary appointment)
BS Southwestern University 2008
BS1 Southwestern University 2008
MD University of Texas Galveston 2012

Donald F Busiek, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1983
BA Saint Louis University 1974

Alicia Haywood Busso, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
MD University of MO Kansas City 2004
BA University of MO Kansas City 2004

Anne Mobley Butler, PHD, MS
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Surgery (Public Health Sciences)
PHD University of North Carolina 2014
BS Emory University 2003
MS Harvard University 2006

Melvin J Butler
Instructor in Clinical Medicine (primary appointment)

Derek E Byers, PHD, MD
Associate Professor of Medicine (primary appointment)
BS University of Oklahoma 1993
PHD University of Texas Southwest 2001
Jonathan Nicholas Byrd, BS1, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS1 Tulane University 2007
MD Washington Univ in St. Louis 2011

Galileu Cabral, MD
Associate Professor of Clinical Medicine (primary appointment)
MD School Not Listed 1964

Matthew David Cain, PHD
Assistant Professor of Medicine (primary appointment)
BS Rhodes College 2007
PHD Washington Univ in St. Louis 2014

John William Campbell, MD
Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St Louis 1977
BA Washington Univ in St. Louis 1973

Jian Li Campian, MS, PHD, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Neurological Surgery
MS Peking Union Medical College 2000
PHD University of Louisville 2003
MD Tianjin Medical University 1997

Maria J Canizares, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
MD Saint Louis University 2001
BA Saint Louis University 1996

Rosemary L Cannistraro, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1992

Song Cao, PHD, BE
Instructor in Medicine (primary appointment)
PHD ZHEJIANG UNIVERSITY 2003
BE Harbin University of Science a 1999

Rebecca Goodwin Carey
Adjunct Instructor in Medicine (primary appointment)

Abigail L Carlson, MD
Assistant Professor of Medicine (primary appointment)
MD Johns Hopkins University 2010
BA Wellesley College 2005

Kim Alan Carmichael, MD
Professor of Medicine (primary appointment)
MD Virginia College 1978

Christopher Robert Carpenter, MD
Professor of Emergency Medicine in Medicine (primary appointment)
MD Wayne State University 1994

David B Carr, MD
Professor of Medicine (primary appointment)
Alan A and Edith L Wolff Distinguished Professor of Geriatric Medicine
Professor of Neurology
BA University of MO Columbia 1981
MD University of MO Columbia 1985

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Associate Professor of Medicine (primary appointment)
Executive Chair Washington University Institutional Review Board
BS1 Yale University 1995
MD Washington Univ in St. Louis 1999
BS Yale University 1995

Roque Castillo, MD
Assistant Professor of Medicine (primary appointment)
MD Universidad Peruana Cayetano 1993

Lilibeth Maria Cayabyab-Loe, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Missouri 1990
BA Saint Louis University 1986

Hamza Celik, PHD
Instructor in Medicine (primary appointment)
PHD AIX-MARSEILLE UNIVERSITY 2013
BS University of Westminster 2009

Murali M Chakinala, MD
Professor of Medicine (primary appointment)
BS Duke University 1990
MD Vanderbilt University 1994

Grant A Challen, PHD
Associate Professor of Medicine (primary appointment)
PHD University of Queensland 2006

Philip Chan, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
BA Northwestern University 2009
MD Northwestern University 2013

Dennis Tian-Shu Chang, MED, MD
Associate Professor of Medicine (primary appointment)
MED University of Chicago 2003
BS Yale University 1999
MD University of Chicago 2003

Kae Pyng Chang, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1995
BA Washington Univ in St. Louis 1991

Monica Chang-Panesso, MD
Assistant Professor of Medicine (primary appointment)
MD Texas Tech University 2009
Douglas Char, MD, MA  
Professor of Emergency Medicine in Medicine (primary appointment)  
BS Boston College 1983  
MD University of Hawaii 1989  
MA Boston University 1985

Siroth Charnond, MD  
Instructor in Clinical Medicine (primary appointment)  
BA University of MO Kansas City 1995  
MD University of MO Kansas City 1995

Lewis Robert Chase, MD  
Professor of Medicine (primary appointment)  
BA Princeton University 1960  
MD Harvard University 1964

Salman Chaudhry, MBBS  
Instructor in Medicine (primary appointment)  
MBBS Agha Khan University, Pakistan 2007

Lakshmi Ramya Chelapareddy, MBBS  
Instructor in Medicine (primary appointment)  
MBBS Dr. NTR University of Health S 2010

Alexander Chi Chen, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Surgery (Cardiothoracic Surgery)  
MD University of MO Kansas City 2001

Baosheng Chen, PhD  
Instructor in Medicine (primary appointment)  
PHD Peking Union Medical College, 2002

Chien-Huan Chen, PhD, MD  
Professor of Medicine (primary appointment)  
PHD Johns Hopkins University Med 1999  
MD National Taiwan University 1993

David Yuan-Sou Chen, MD, PHD  
Instructor in Medicine (primary appointment)  
BS University of Michigan 2003  
MD Washington Univ in St. Louis 2012  
PHD Washington Univ in St. Louis 2012

Edward C. Chen, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 2005

Feng Chen, PHD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Cell Biology and Physiology  
PHD University of Utah 1998  
BS Fudan University 1991

Justin Chen, MD  
Instructor in Medicine (primary appointment)  
MD Drexel University 2016

Phyllis Chen, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Northwestern University Med 1992

Qing Chen, MD, UNKNOWN, MS  
Instructor in Clinical Medicine (primary appointment)  
MD Nanjing Medical University 1983  
UNKNOWN School Not Listed 1983  
MS Nanjing Medical University 1988

Sara X Chen  
Instructor in Medicine (primary appointment)  
BS Vanderbilt University 2010

Ying Chen, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
PHD Vanderbilt University 2004  
MD Shanghai Medical University 1996

Steven Chih Nung Cheng, MD  
Associate Professor of Medicine (primary appointment)  
MD Northwestern University Med 2002  
BA Northwestern University 2001

Praveen R Chenna, MBBS  
Associate Professor of Medicine (primary appointment)  
MBBS Sri Ramachandra Medical Colleg 2005  
BS Washington Univ in St. Louis 1998

Milan G Chheda, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Neurology  
MD Albert Einstein College of Med 2002

Rebecca Joy Chibnall, AA, MD  
Assistant Professor of Medicine (Dermatology) (primary appointment)  
AA Washington Univ in St. Louis 2007  
MD University of California 2012  
BS Washington Univ in St. Louis 2007

Phillip Ruben Chisholm  
Instructor in Clinical Medicine (primary appointment)

Jaebok Choi, MS, PHD, BE  
Assistant Professor of Medicine (primary appointment)  
MS Univ of Nebraska at Omaha 2001  
PHD Baylor University 2006  
BE Kyung Pook National University 1996

Courtney Darcey Chrisler, MD  
Assistant Professor of Medicine (primary appointment)  
BS Northwestern University 2003  
MD Washington Univ in St. Louis 2007

Matthew Christopher, MD, PHD  
Assistant Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 2010  
BA Saint Louis University 1993  
PHD Washington Univ in St. Louis 2010

Philip Chu Pak-Yu, MD  
Instructor in Clinical Medicine (primary appointment)
MD University of CA Los Angeles 1992
BS California State Fresno 1986

Duck Sung Chun, MD
Instructor in Clinical Medicine (primary appointment)

Jeffrey Peter Ciaramita
Instructor in Clinical Medicine (primary appointment)

Thomas Michael Ciesielski, MD
Assistant Professor of Medicine (primary appointment)
MD Oregon Health Science Univers 2010

Vincenza Cifarelli, PHD, MS
Assistant Professor of Medicine (primary appointment)
PHD University of Pittsburgh 2011
MS Universita de Modena e Reggio 2005

Matthew Aaron Ciorba, MD
Associate Professor of Medicine (primary appointment)
MD University of Iowa 2001

Geoffrey Cislo, MD
Assistant Professor of Medicine (primary appointment)
MD University of Michigan 1996
BS University of Michigan 1993

Roberto Civitelli, MD
Sydney M and Stella H Schoenberg Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
Professor of Orthopaedic Surgery
BS University of Siena 1980
MD University of Siena 1980

Katherine K Clifton, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
BA Saint Louis University 2009
MD Loyola University Chicago 2013

Dorothy Jean Cline, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
BA University of Missouri 1973
MD Saint Louis University 1977

William Edward Clutter, MD
Associate Professor of Medicine (primary appointment)
Associate Director of the House Staff Training Program, Department of Internal Medicine
BS Ohio State University 1972
MD Ohio State University 1975

Shari J Cohen, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA University of MO Kansas City 1986
MD University of Missouri 1987

Brian G Cohn, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of Alabama 2003

Danita L Cole, MD
Instructor in Clinical Medicine (primary appointment)
BA University of MO Kansas City 1990
MD University of MO Kansas City 1991

Patricia L Cole, MD, MA
Associate Professor of Clinical Medicine (primary appointment)
BA Mount Holyoke College 1972
MD Harvard University 1981
MA Brown University 1975

Roger Barto Cole, MD, PHD, MS
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 2008
PHD Yale University 2004
MS Yale University 2001
BS Rice University 1997

Sarah F Cole
Instructor in Clinical Medicine (primary appointment)

Laura Ann Colletti-Mann, MD
Associate Professor of Medicine (primary appointment)
MD Boston University 1980

Kim David Colter, MD, MS
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1978
BS MO S&T (formerly UofMO Rolla) 1973
MS University of CA Berkeley 1974

Arthur Hamilton Combs, MD
Associate Professor of Medicine (primary appointment)
MD New York Medical College 1975

Daniel Horatio Cooper, MD
Associate Professor of Medicine (primary appointment)
BS Washington Univ in St. Louis 1999
MD Loyola University Chicago 2003

Matthew Cooper, PHD
Assistant Professor of Medicine (primary appointment)
BS University of Surrey 2004
PHD University of Surrey 2008

Lynn Anne Cornelius, MD, BN
Winfred A and Emma R Showman Professor of Dermatology in Medicine (primary appointment)
MD University of Missouri 1984
BN University of Delaware 1977

Dominique Leah Cosco, MD
Associate Professor of Medicine (primary appointment)
MD Tulane University 2005

Natalie Danielle Cosgrove, MD
Assistant Professor of Medicine (primary appointment)
MD Temple University 2011

John Bernard Costello, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1977
BA Saint Louis University 1974

Carrie Christine Coughlin, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
Assistant Professor of Pediatrics
MD Washington Unv in St. Louis 2010
BA Yale University 2005

Martha Laurin Council, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
MD Washington Unv in St. Louis 2004
BS Louisiana St University 2000

Daniel W Coyne, MD
Professor of Medicine (primary appointment)
MD Case Western Reserve Univ 1983
BA Saint Louis University 1979

Clarissa S. Craft, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
BS Beloit College 2003
PHD Northwestern University 2007

Johnetta M Craig, MD, MBA
Instructor in Clinical Medicine (primary appointment)
MD University of Iowa 1986
MBA University of Pennsylvania 1994
BS University of Missouri 1980

John Jeffrey Cras, MD, MS
Assistant Professor of Medicine (primary appointment)
MD Georgetown University 2003
BS Loyola College 1994
MS Georgetown University 1998

Charles Creceilius, MD, PHD
Associate Professor of Clinical Medicine (primary appointment)
BA Carleton University 1976
MD Saint Louis University 1984
PHD Saint Louis University 1984

Sharon Cresci, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Genetics
BS State Univ of NY Binghampton 1982
MD New York University 1986

Stephen R Crespin, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Harvard University 1965
BA Harvard University 1960

Jeffrey S Crippin, MD
Professor of Medicine (primary appointment)
BS University of Notre Dame 1980
MD University of Kansas 1984

Paulina Cruz Bravo, MD
Assistant Professor of Medicine (primary appointment)
MD Universidad Autonoma de Madrid 2009

Philip E Cryer, MD
Professor Emeritus of Medicine (primary appointment)
Adjunct Professor of Medicine
BA Northwestern University 1962
MD Northwestern University Med 1965

Phillip S. Cuculich, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Radiation Oncology
MD Vanderbilt University 2001

Robert Culverhouse, PHD, MA
Associate Professor of Medicine (primary appointment)
Associate Professor of Biostatistics
PHD Washington Univ in St. Louis 1998
BA Vanderbilt University 1983
MA University of CA Berkeley 1987

Lenise Andrea Cummings-Vaughn, MD, MS
Associate Professor of Medicine (primary appointment)
MD Saint Louis University 2005
BS Williams College 1995
MS San Francisco St University 1998

Robert B Cusworth, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Rochester 1974

Stacy Zhao Dai, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2013
BA Brandeis University 2009

Ann Marie Dale, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Occupational Therapy
PHD Saint Louis University 2009
BS University of MO Columbia 1983

William H Danforth, MD
Professor of Medicine (primary appointment)
Vice Chairman and Chancellor Emeritus
MD Harvard University 1951
BA Princeton University 1947

Ha Xuan Dang, PHD
Instructor in Medicine (primary appointment)
PHD Virginia Tech 2014
BS HANOI U OF SCIENCE AND TECH 2003
Erik D. Daniels, MD
Instructor in Clinical Medicine (primary appointment)
BS Howard University 1985
MD Howard University 1989

John S Daniels, MA, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St Louis 1970
MA University of Arkansas 1974
MD University of Arkansas 1974

Peter G Danis
Instructor in Clinical Medicine (primary appointment)

Rand E Dankner, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Baylor University 1978
BA University of Pennsylvania 1974

Maria Cristina Dans, MD
Associate Professor of Medicine (primary appointment)
MD Washington Univ in St Louis 1999
BA Princeton University 1989

Anthony Trung Dao, MD
Instructor in Medicine (primary appointment)
MD Northeast Ohio Medical U 2016
BS Northeast Ohio Medical U 2012

Bhajan Shewaldas Dara, MD
Instructor in Clinical Medicine (primary appointment)
MD Sindh Medical College 1987

Lakshman Darsi, MBBS
Assistant Professor of Medicine (primary appointment)
MBBS Guntur Medical College 1985

Koushik Kumar Das, MD
Assistant Professor of Medicine (primary appointment)
MD Columbia University 2016

Sundeep Das, MD
Instructor in Clinical Medicine (primary appointment)
MD University College of Med Sci 1986

Debadutta Dash, MA, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
BA University of Texas Austin 2008
MA Harvard University 2018
MD Baylor College of Medicine 2013

John D Davidson, MD
Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St Louis 1952
BA Washington Univ in St Louis 1948

Nicholas O Davidson, MBBS
Professor of Medicine (primary appointment)
Professor of Developmental Biology
MBBS King's College London 1974

Victor G Davila-Roman, MD
Professor of Medicine (primary appointment)
Professor of Anesthesiology
Professor of Radiology
BS University of Puerto Rico 1977
MD University of Puerto Rico 1981

Andrea Jill Davis, MSN, MD
Instructor in Clinical Medicine (primary appointment)
MSN Arizona State University 2000
BS Randolph Macon College 1997
MD St George's University 2004

James Alvin Davis, MD
Assistant Professor of Medicine (primary appointment)
BS Morehead St University 1994
MD University of Kentucky 1999

Jeffrey M Davis, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
MD Vanderbilt University 1999

Thomas Edward Davis
Instructor in Clinical Medicine (primary appointment)

Caroline Elizabeth Day, M PH, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Colorado Boulder 1990
M PH San Diego St University 2005
MD Washington Univ in St Louis 1995

Thomas M De Fer, MD
Associate Dean of Medical Student Education
Professor of Medicine
BA University of Missouri 1985
MD University of Missouri 1989

Lisa De Las Fuentes, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Biostatistics
BA Stanford University 1991
MD University of Texas Southwest 1996

Anne V Dean, MD
Instructor in Clinical Medicine (primary appointment)
BA Bowdoin College 1986
MD Loyola University 1995

Joshua Thomas Dearborn, MS, PHD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
BS University of MO St Louis 2005
MS University of MO St Louis 2007
PHD University of MO St Louis 2013

Parakkal Deepak, MBBS
Assistant Professor of Medicine (primary appointment)
MBBS Jawaharlal Institute of PostGr 2004
Angeline Diane DeiSanti, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of MO Columbia 2003  
BS University of MO Columbia 1998

Jennifer A. Delaney, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Georgetown University 1992  
MD Washington Univ in St. Louis 1997

Rowena Bayudan Delos Santos, MD  
Assistant Professor of Medicine (primary appointment)  
MD Creighton University 2004  
BS Creighton University 2000

Bethany L Dement, MD  
Instructor in Medicine (primary appointment)  
MD Southeast Missouri St Univers 2001

David G. DeNardo, PHD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Pathology and Immunology  
PHD Baylor University 2005  
BS Willamette University 1999

Amber Zimmer Deptola, MD  
Assistant Professor of Medicine (primary appointment)  
BS Miami University 2008  
MD University of Louisville 2012

Sunny Desai, UNKNOWN, MS  
Instructor in Clinical Medicine (primary appointment)  
UNKNOWN School Not Listed 1991  
MS School Not Listed 1991

Teresa Deshields, PHD, MS  
Associate Professor of Clinical Medicine (primary appointment)  
Associate Professor of Clinical Psychiatry  
PHD University of Georgia 1985  
BA Meredith College 1981  
MS University of Georgia 1983

Vladimir Novak Despotovic, MD  
Associate Professor of Medicine (primary appointment)  
BS Michigan State University 2000  
MD Michigan State University 2004

Siddhartha HK Devarakonda, MD  
Assistant Professor of Medicine (primary appointment)  
MD Indira Gandhi Medical College 2009

Jason Devgun, MD  
Assistant Professor of Emergency Medicine in Medicine  
(Pending Executive Faculty Approval) (primary appointment)  
MD Rosalind Franklin University 2013  
BS Illinois Institute of Technol 2008

Michael D DeVita, MD  
Assistant Professor of Medicine (primary appointment)  
BS University of Wisconsin 2006  
MD University of Wisconsin 2011

Michael Diamond, PHD, MD  
Professor of Medicine (primary appointment)  
Herbert S Gasser Professor  
Professor of Molecular Microbiology  
Professor of Pathology and Immunology  
PHD Harvard University 1992  
MD Harvard University 1994  
BA Columbia College 1985

Judith A Dibble, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1986

Brian K Dieckgraefe, PHD, MD  
Associate Professor of Medicine (primary appointment)  
PHD Washington Univ in St. Louis 1987  
BA University of Kansas 1982  
MD Washington Univ in St. Louis 1988

Kathryn M Diemer, MD  
Professor of Medicine (primary appointment)  
Assistant Dean for Career Counseling  
BA University of Missouri 1984  
MD University of Missouri 1985

Colin Diffie, MD  
Instructor in Medicine (primary appointment)  
BA University of Texas Austin 2008  
BA University of Texas Austin 2008  
MD Univ of Texas Med Sch Houston 2014

Hanan M Dihowm  
Instructor in Medicine (primary appointment)  
Li Ding, PHD  
Professor of Medicine (primary appointment)  
Professor of Genetics  
PHD University of Utah 1998

John F Dipersio, PHD, MD  
Virginia E and Sam J Golman Professor of Medicine (primary appointment)  
Professor of Pathology and Immunology  
Professor of Pediatrics  
PHD University of Rochester 1980  
MD University of Rochester 1980  
BA Williams College 1973

Richard M Divalerio, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1988  
BS University of Notre Dame 1984

Abhinav Diwan, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Cell Biology and Physiology  
MD All-India Inst of Medical Sci 1997
Irl Joseph Don, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1969  
MD Washington Univ in St. Louis 1972

James W Donnelly, MD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
MD Washington Univ in St. Louis 1986  
BA Northwestern University 1982

Balraj Doray, PHD  
Associate Professor of Medicine (primary appointment)  
PHD University of Illinois 1999  
BS Southern Illinois University 1993

Gerald W. Dorn II, MD  
Philip and Sima K Needleman Professor of Medicine (primary appointment)  
MD Medical University of South Car 1981

Aisling Elizabeth Doyle, MD  
Instructor in Medicine (primary appointment)  
MD University College Cork 2015

William H Dribben, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
BA University of North Carolina 1985  
MD University of North Carolina 1990

Erik R Dubberke, MD, MPH  
Professor of Medicine (primary appointment)  
MD University of Illinois 1999  
MPH Saint Louis University 2008  
BA Augustana University College 1995

James Matthew DuBois, D SC, MA, PHD  
Steven J Bander Professor of Medical Ethics and Professionalism (primary appointment)  
Professor of Psychological & Brain Sciences  
BA Franciscan University Stubenv 1989  
D SC University of Vienna 1997  
MA University of Rhode Island 1990  
PHD Intrnl Academy of Philosophy 1992

Nicole Marie Ducharme, DOST  
Instructor in Clinical Medicine (primary appointment)  
BS Muhlenberg College 1998  
DOST Univ of Health Sciences KC 2003

Carolyn Dufault, PHD  
Assistant Professor of Medicine (primary appointment)  
Assistant Dean for Education and Technology  
BS Mount Holyoke College 1997  
PHD Washington Univ in St. Louis 2009

Maria C Dumadag-Sabio, MD  
Instructor in Clinical Medicine (primary appointment)  
BA University of Missouri 1988  
MD University of Missouri 1988

Edward Harry DuMontier  
Instructor in Clinical Medicine (primary appointment)

William C Dunagan, MS, MD  
Professor of Medicine (primary appointment)  
MS University of Texas Austin 1980  
BS University of Texas Austin 1978  
MD Washington Univ in St. Louis 1983

Julia Passyn Dunn, MS, MD  
Assistant Professor of Medicine (primary appointment)  
MS Vanderbilt University 2010  
MD University of South Alabama 2002  
BS Auburn University 1998

Michael Joseph Durkin, MD, M PH1  
Assistant Professor of Medicine (primary appointment)  
BA Illinois Wesleyan University 2004  
MD Medical College of Wisconsin 2008  
M PH1 University of North Carolina 2015

Tiffany B Jason Dy, MD  
Assistant Professor of Medicine (primary appointment)  
BS University of Miami 2005  
MD Univ Texas Health Science Ctr 2009

William Charles Eades Jr, BEE  
Associate Professor of Medicine (primary appointment)  
BEE MO S&T (formerly UofMO Rolla) 1982

Dayna S Early, MD  
Professor of Medicine (primary appointment)  
BA University of Missouri 1986  
MD University of Missouri 1990

Royal J Eaton, MD  
Instructor in Clinical Medicine (primary appointment)  
BA University of Missouri 1960  
MD University of Missouri 1964

Charmaine E. Edwards, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Alcorn State University 1987  
MD Howard University 1992

John R. Edwards, PHD  
Associate Professor of Medicine (primary appointment)  
PHD Columbia University 2003

Stillianos Efstratiadis  
Assistant Professor of Clinical Medicine (primary appointment)

Russell E Eggebrecht, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BS University of Illinois 1967  
MD Washington Univ in St. Louis 1971
Professor of Medicine (primary appointment)
MD Tehran University 1965

Zamir Eidelman, MD
Associate Professor of Clinical Medicine (primary appointment)
MD School Not Listed 1987

Seth A Eisen, MS, MD
Professor of Medicine (primary appointment)
MS Harvard University 1989
BA Reed College 1963
MD Washington Univ in St. Louis 1966

Linda G Eissenberg, PHD
Assistant Professor of Medicine (primary appointment)
BA University of Tennessee 1977
PHD University of North Carolina 1982

Jack El Sawda
Instructor in Medicine (Pending Dean's Approval) (primary appointment)

Lamice R. El-Kholy, MS, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
MS School Not Listed 1986
UNKNOWN School Not Listed 1982

John Ellena, MD
Associate Professor of Clinical Medicine (primary appointment)
BS Southern Illinois University 1980
MD Southern Illinois University 1983

Melissa Berrien Elliott, PHD
Instructor in Medicine (primary appointment)
BS Eckerd College 2006
PHD Saint Louis University 2014

Charlene Ann Ellsworth, MD, PHD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 2008
PHD Mass Inst of Technology (MIT) 2004

Amged Eltahir, AB1, MD
Instructor in Clinical Medicine (primary appointment)
AB1 Saint Louis University 2006
MD University of Khartoum 1985

Michelle Lynn Elvington, PHD
Instructor in Medicine (primary appointment)
BS Columbia College 2005
PHD University of South Carolina 2011

Jill Elizabeth Elwing, MD
Assistant Professor of Medicine (primary appointment)
BS University of MO Columbia 1996
MD University of MO Columbia 2000

James Michael Epstein, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Notre Dame 1965
MD Washington Univ in St. Louis 1969

Gerome V Escota, MD
Assistant Professor of Medicine (primary appointment)
MD University of the Philippines 2004
BS University of the Philippines 1999

Amir Esmaeeli, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2015

Neil A Ettinger, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1983
BS Vanderbilt University 1979

Bradley A Evanoff, MD, M PH
Richard A and Elizabeth Henby Sutter Professor of Occupational, Industrial, and Environmental Medicine in Medicine (primary appointment)
Assistant Dean for Clinical and Translational Research Professor of Occupational Therapy
BA Cornell University 1982
MD Washington Univ in St. Louis 1986
M PH University of Washington 1993

Kathleen Anne Evans, MD
Instructor in Medicine (primary appointment)
MD University of Texas Southwest 2016
BA University of Oklahoma 2012
BS University of Oklahoma 2012

Carol Jane Evers, MD
Instructor in Clinical Medicine (primary appointment)
BA Brown University 1973
MD Brown University 1977

Gregory A Ewald, MD
Professor of Medicine (primary appointment)
BS University of Illinois 1985
MD Northwestern University 1989

Elisa Fabbrini, PHD, MD
Adjunct Assistant Professor of Medicine (primary appointment)
PHD La Sapienza University 2006
MD La Sapienza University 1998

Mitch N Faddis, PHD, MD
Professor of Medicine (primary appointment)
BS Kansas State University 1985
PHD Washington Univ in St. Louis 1993
MD Washington Univ in St. Louis 1993

Sarah Schwarz Farabi
Adjunct Assistant Professor of Medicine (primary appointment)

Akinrinola Fatoki, MS
Instructor in Clinical Medicine (primary appointment)
BS School Not Listed 1982
MS School Not Listed 1989
Carol Faulk, MD  
Instructor in Medicine (primary appointment)  
MD Louisiana State University 2014

Todd A Fehniger, PHD, MD  
Associate Professor of Medicine (primary appointment)  
PHD Ohio State University 2000  
BS State Univ of NY Buffalo 1994  
MD Ohio State University 2002

Francesca Ferraro, PHD, MD  
Instructor in Medicine (primary appointment)  
PHD University of Parma 2014  
MD University of Parma 2004

Todd A Fehniger, PHD, MD  
Associate Professor of Medicine (primary appointment)  
PHD Ohio State University 2000  
BS State Univ of NY Buffalo 1994  
MD Ohio State University 2002

Francesca Ferraro, PHD, MD  
Instructor in Medicine (primary appointment)  
PHD University of Parma 2014  
MD University of Parma 2004

Herman L Ferrell, MD  
Instructor in Clinical Medicine (primary appointment)  
BS University of Arkansas 1973  
MD University of Arkansas 1975

Mark A Fiala, MSW  
Instructor in Medicine (primary appointment)  
BS Southeast Missouri State University 2006  
MSW Washington University in St. Louis 2017

Kathryn Lynn Filson, MD  
Instructor in Medicine (primary appointment)  
MD Southern Illinois University 2015

Brian N. Finck, MS, PHD  
Associate Professor of Medicine (primary appointment)  
BS University of Illinois 1994  
MS University of Illinois 1996  
PHD University of Illinois 2000

Lewis Conrad Fischbein, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BA University of Rochester 1970  
MD Washington University in St. Louis 1974

Peter Uwe Fischer, PHD, MS  
Professor of Medicine (primary appointment)  
PHD University of Hamburg 1996  
MS Free University of Berlin 1991

Norman Fishman, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BA School Not Listed 1970  
MD School Not Listed 1974

Sean C. Fitzmaurice, MD  
Instructor in Emergency Medicine in Medicine (primary appointment)  
BS Georgetown University 1989  
MD Saint Louis University 1995

James M Fleckenstein, MD  
Professor of Medicine (primary appointment)  
Professor of Molecular Microbiology  
MD Saint Louis University 1985  
BS Xavier University 1981

Jaquelyn F Fleckenstein, MD  
Professor of Medicine (primary appointment)  
BA Cornell University 1981  
MD Saint Louis University 1985

Peter Joseph Fletcher, MD  
Instructor in Emergency Medicine in Medicine (primary appointment)  
MD Univ Texas Health Sci San Anto 2015  
BS Texas A&M University 2009

Emily Fondahn, MD  
Assistant Professor of Medicine (primary appointment)  
MD Northwestern University 2008

Luigi Fontana, PHD, MD  
Adjunct Professor of Medicine (primary appointment)  
PHD University of Padova 2004  
MD University of Verona 1994

Randi Elizabeth Foraker, PHD, MA  
Associate Professor of Medicine (primary appointment)  
PHD University of North Carolina 2010  
BA University of Iowa 1997  
MA University of Iowa 1999

Nickole A Forget, MD  
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MD Saint Louis University 1996

Glennon Joseph Fox, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of MO Columbia 1984

Judy Ann Frain, BN, PHD, MSN  
Adjunct Assistant Professor of Medicine (primary appointment)  
BN Webster University 2003  
PHD University of MO St Louis 2013  
MSN Saint Louis University 2004

Antonietta Franco, MS, PHD  
Instructor in Medicine (Pending Dean's Approval) (primary appointment)  
BS University of Naples 2010  
MS University of Naples 2012  
PHD University of Naples 2016

Victoria J Fraser, MD  
Adolphus Busch Professor of Medicine (primary appointment)  
Head of the Department of Internal Medicine  
BS William Woods College 1978  
MD University of MO Columbia 1983

James Matthew Freer, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of MO Columbia 2002  
BS Truman State University 1998
Deborah Frenchie, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1984  
MD Washington Univ in St. Louis 1993

Ashley Elizabeth Frith, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of AR Med Sciences 2008  
BS Christian Brothers University 2004

Brian R. Froelke, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD University of Cincinnati 2002

Michael Paul Fuller, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BA Brigham Young University 1990  
MD University of Utah 1994

Suzanne Furesz  
Instructor in Clinical Medicine (primary appointment)

Gary Gaddis, MD, PHD  
Professor of Emergency Medicine in Medicine (Pending Executive Faculty Approval) (primary appointment)  
MD Indiana University School of M 1986  
PHD Indiana State University 1984

Brian F Gage, MD, MS  
Professor of Medicine (primary appointment)  
MD University of California 1988  
MS Stanford University 1995  
BS Stanford University 1984

Daniel Gaitan, MD  
Associate Professor of Clinical Medicine (primary appointment)  
MD University of Mississippi 1986  
BS University of AL Birmingham 1980

Arthur H Gale, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BS Washington Univ in St. Louis 1955  
MD University of Missouri 1959

Joseph Lee Galkowski, DOST  
Instructor in Emergency Medicine in Medicine (primary appointment)  
DOST Kansas Cty Univ Med/Bioscience 1994  
BS University of MO Columbia 1990

Sumanth Gandra, MD, MA  
Assistant Professor of Medicine (primary appointment)  
MD University of Chicago 2010  
BA Osmania Medical College 2014  
MA Eastern Kentucky University 2007

Jane M. Garbutt, MHS, MBCHB  
Professor of Medicine (primary appointment)

Professor of Pediatrics  
MHS University of Toronto 1988  
MBCHB Bristol University 1977

John A Garcia, MBA, MD  
Instructor in Clinical Medicine (primary appointment)  
MBA University of MO St Louis 1998  
MD University of Illinois 1990  
BA Carleton College 1985

Jacquelyn B Garrett, MD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
BS Howard University 1983  
MD Howard University 1985

Francisco J Garriga, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1970  
BS University of Puerto Rico 1966

Felicitas Z Gatachalian, MD  
Instructor in Clinical Medicine (primary appointment)  
BS University of Santo Tomas 1970  
MD University of Santo Tomas 1976

Joseph H Gatewood, MD  
Instructor in Emergency Medicine in Medicine (primary appointment)  
MD University of Chicago 1970  
BA Swarthmore College 1966

William M Gee, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Cornell College 1977  
MD Washington Univ in St. Louis 1981

Richard A Geisman, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Saint Louis University 1979  
MD Tulane University 1983

Edward M Geltman, MD  
Professor of Medicine (primary appointment)  
Assistant Professor of Radiology  
BS Mass Inst of Technology (MIT) 1967  
MD New York University 1971

Elvin Hsing Geng, MD, MPH  
Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
BA University of CA Berkeley 1996  
MD Columbia University 2002  
MPH Columbia University 2002

Ige A George, MBBS  
Assistant Professor of Medicine (primary appointment)  
MBBS Christian Medical College 1998

Armin Ghabadi, MD
Assistant Professor of Medicine (primary appointment)
MD Iran Univ of Medical Sciences 2001

Bria D Giacomino, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Midwestern University 2012

Matthew John Gibfried, MD
Instructor in Clinical Medicine (primary appointment)
MD University of MO Columbia 2003

Kevin James Gibson
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)

Thomas J Girard, PhD
Assistant Professor of Medicine (primary appointment)
BS Univ of Wisconsin Oshkosh 1979
PHD Iowa State University 1985

Margo Renee Girardi, MD
Assistant Professor of Medicine (primary appointment)
MD Saint Louis University 2005
BS University of Illinois 2001

Gardar T Gislason
Adjunct Instructor in Medicine (primary appointment)

Josephine Lee Aguhob Glaser
Instructor in Clinical Medicine (primary appointment)

Marye J Gleva, MD
Professor of Medicine (primary appointment)
MD University of Washington 1988
BA Wellesley College 1984

Andrew S Gold, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Iowa 1989
BS University of Illinois 1985

Anne Carol Goldberg, MD
Professor of Medicine (primary appointment)
BA Harvard University 1973
MD University of Maryland 1977

Daniel E Goldberg, MD, PHD
David M and Paula L Kipnis Distinguished Professor (primary appointment)
Professor of Molecular Microbiology
BA Harvard University 1978
MD Washington Univ in St. Louis 1985
PHD Washington Univ in St. Louis 1985

Gregory I Goldberg, MA, PHD
Professor of Medicine (Dermatology) (primary appointment)
Professor of Biochemistry and Molecular Biophysics
MA Moscow State University 1969
PHD Weizmann Institute of Science 1977

Seth Goldberg, MD

Assistant Professor of Medicine (primary appointment)
BS University of South Florida 1999
MD University of South Florida 2003

Benjamin M Goldstein, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1964
BA Washington Univ in St. Louis 1960

Felicia Ismay Gomez, PHD
Instructor in Medicine (primary appointment)
PHD George Washington University 2015

Maria Cristina Gonzalez-Mayda, MD
Assistant Professor of Medicine (primary appointment)
BS University of Puerto Rico 2004
MD University of Puerto Rico 2008

Daniel M Goodenberger, MD
Professor of Medicine (primary appointment)
MD Duke University 1974
BS University of Nebraska 1970

David Alan Goran, MD
Assistant Professor of Medicine (primary appointment)
BA University of Michigan 1972
MD Washington Univ in St. Louis 1976

John Gorcsan III, MD
Professor of Medicine (primary appointment)
BA Lehigh University 1979
MD Pennsylvania State University 1983

Mary Jo Gorman, MBA, MD
Instructor in Clinical Medicine (primary appointment)
MBA Washington Univ in St. Louis 1996
BA Saint Louis University 1981
MD Southern Illinois University 1984

Ramaseswamy Govindan, MD
Professor of Medicine (primary appointment)
MD University of Madras 1986

Siddhesh Gowda, MD
Associate Professor of Clinical Medicine (primary appointment)
MD School Not Listed 1970

Gregory Alan Grant, PHD
Professor of Biochemistry in Medicine (Dermatology) (primary appointment)
Professor of Developmental Biology
BS Iowa State University 1971
PHD Univ of Wisconsin Madison 1975

Alfred Greco, MD
Assistant Professor of Medicine (primary appointment)
MD University of MO Columbia 1975
BS University of MO St Louis 1971

Ian Fitzroy Francis Green, MD, MS
Instructor in Medicine (primary appointment)
MD Ohio State University 2016
BS Ohio State University 2011
MS Ohio State University 2014

Aaron Greenspan
Instructor in Clinical Medicine (primary appointment)

Mark H Gregory, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Vermont 1986
BA University of Vermont 1982

Richard T Griffey Jr, M PH, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
M PH Harvard University 2004
MD Norfolk General Hospital 1977

Malachi Griffith, BS1, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Genetics
BS University of Winnipeg 2002
BS1 University of Winnipeg 2002
PHD University of British Columbia 2010

Obi Lee Griffith, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Genetics
PHD British Columbia Open Univ 2008
BS University of Winnipeg 2002

Scott D. Groesch, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Illinois 1990
MD Washington Univ in St. Louis 1994

John R Groll, MD
Instructor in Clinical Medicine (primary appointment)
BA Illinois Wesleyan University 1984
MD University of Illinois 1988

Richard Warren Gross, AB, MD, PHD
Professor of Medicine (primary appointment)
Professor of Chemistry
Professor of Developmental Biology
AB Columbia University 1972
MD New York University 1976
PHD Washington Univ in St. Louis 1982

Brian Anthony Grus, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Pennsylvania 1992
BS University of Pittsburgh 1988

Guner B Gulmen, MD, PHD
Assistant Professor of Clinical Medicine (primary appointment)
MD School Not Listed 1969
PHD University of Minnesota 1974

Vyjanthanath R. Gunasingham, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1982
BS School Not Listed 1975

Mark Cobb Gunby, DOST
Assistant Professor of Clinical Medicine (primary appointment)
DOST Oklahoma St University 1988
BS University of Tulsa 1981

Anjali Gupta, MD
Instructor in Medicine (primary appointment)
BS Johns Hopkins University 2010
MD Univ Texas Health Science Ctr 2015

Maria Gurrieri, MD, DIP
Instructor in Clinical Medicine (primary appointment)
MD Catholic University 1989
DIP School Not Listed 1982

Kamal Gursahani, MD, MBA
Associate Professor of Medicine in Emergency Medicine (primary appointment)
BA Columbia University 1997
MD University of MO Columbia 2002
MBA Saint Louis University 2012

Alexandra Gutierrez, M PH, MD
Associate Professor of Medicine (primary appointment)
BS Brown University 1996
M PH Harvard University 2006
MD Case Western Reserve Univ 2000

Chandra Prakash Gyawali, MBBS, MD
Professor of Medicine (primary appointment)
MBBS University of Calicut 1985
MD University of Calicut 1990

H

Ramsey R Hachem, BA1, MD1, MD
Professor of Medicine (primary appointment)
Tracey C Marshall - Dr. Elbert P Trulock Distinguished Professor of Medicine
BA Southern Methodist University 1992
BA1 Southern Methodist University 1992
MD1 University of Texas Southwest 1997
MD University of Texas Southwest 1997

Zachary T Hafez, MD, MA
Instructor in Emergency Medicine in Medicine (primary appointment)
MD University of MO Columbia 2014
MA Univ of IL -Urbana-Champaign 2008
BA Univ of IL -Urbana-Champaign 2006

Matthew D Hageman, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1996

Jennifer Christine Hagopian
Adjunct Instructor in Medicine (primary appointment)

Ashfaq H Hakim, MBBS, MD
Instructor in Clinical Medicine (primary appointment)
MBBS RNT Medical College 1968
MD RNT Medical College 1973

Ilia Gueorguev Halatchev, MD
Assistant Professor of Medicine (primary appointment)
MD Oregon Health Science Univers 2007

Sarah Eliza Halcomb, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Royal College of Surgeons 2000

Ira McCarthy Hall, PHD
Associate Professor of Medicine (primary appointment)
Associate Director of the Genome Center
Associate Professor of Genetics
PHD Cold Spring Harbor Laboratory 2003
BS University of CA Berkeley 1998

Yasir A Hamad, MD
Assistant Professor of Medicine (primary appointment)
MD University of Juba 2004

Stephanie M Hammer, MD
Instructor in Clinical Medicine (primary appointment)
MD Chicago St University 1995

Janice L Hanson, PHD
Professor of Medicine (primary appointment)
PHD University of Michigan 1984

Zahirul Haque
Instructor in Clinical Medicine (primary appointment)

Annie Chamren Harmon, MS, PHD
Assistant Professor of Medicine (primary appointment)
BA University of Evansville 2004
MS Missouri College 2010
PHD University of Michigan 2016

Charles A. Harris, MD, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Developmental Biology
BS Brown University 1994
MD Washington Univ in St. Louis 2002
PHD Washington Univ in St. Louis 2002

Lydia-Ann Lynell Harris, PHD
Adjunct Assistant Professor of Medicine (primary appointment)
PHD State University of New York 2011

Justin C Hartupee, PHD, MD
Assistant Professor of Medicine (primary appointment)
PHD Case Western Reserve Univ 2008
MD Case Western Reserve Univ 2010

Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MD Damascus University, School of 2011

Syed Hasan
Instructor in Medicine (primary appointment)

Jeffrey A Haspel, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD New York U. School of Medicine 2003
PHD New York U. School of Medicine 2001
BS Binghamton University 1994

Anisa Hassan, MD
Instructor in Clinical Medicine (primary appointment)
MD Dow Medical College Karachi 1976

Thomas F Hastings, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1986
BA Rockhurst College 1981

Krysta Lynn Heath, MD
Instructor in Medicine (primary appointment)
MD University of AR Med Sciences 2011

James N Heins, MD
Professor of Clinical Medicine (primary appointment)
Adjunct Professor of Medicine
BA University of Louisville 1957
MD University of Louisville 1961

Laura Elaina Heitsch, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
Assistant Professor of Neurology
MD University of Illinois 2005
BS University of Illinois 1999

Jason M Held, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Anesthesiology
PHD University of San Francisco 2006
BS Duke University 2001

Jeffrey P. Henderson, MD, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Molecular Microbiology
BS Univ of Wisconsin Madison 1994
MD Washington Univ in St. Louis 2002
PHD Washington Univ in St. Louis 2002

Katherine Eileen Henderson, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Minnesota 1998
BS Univ of Wisconsin Madison 1993

Kristina Louise Henderson, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1991

Rim Hasan, MD
Bulletin 2019-20
John T. Milliken Department of Medicine (11/11/19)

BA Saint Louis University 1982

Daniel Robert Herleth
Instructor in Clinical Medicine (primary appointment)

Catherine Hermann, M ENG, MD
Instructor in Clinical Medicine (primary appointment)
M ENG Univ of Southern Mississippi 1993
MD Washington Univ in St. Louis 2000
BA Truman State University 1992

Leonel F. Hernandez Aya, MD
Assistant Professor of Medicine (primary appointment)
MD Universidad Nacional de Columb 2007

Cynthia Joan Herrick, MD
Assistant Professor of Medicine (primary appointment)
BS Princeton University 2002
MD Washington Univ in St. Louis 2006

Andreas Herrlich, MD, PHD
Associate Professor of Medicine (primary appointment)
MD Freie University 1994
PHD Freie University 1998

Karin Hickey, MD
Assistant Professor of Medicine (primary appointment)
MD Luliu Hatieganu U of Med 2007

Scot G Hickman, MD
Professor of Medicine (primary appointment)
BA Duke University 1966
MD Washington Univ in St. Louis 1970

Stuart T. Higano, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Massachusetts 1984

SueLin Ming Hilbert, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of Utah 2006

Elizabeth Hilliker, MA, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BA Washington Univ in St. Louis 1965
MA Washington Univ in St. Louis 1970
MD Washington Univ in St. Louis 1970

Paul Flack Hintze, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Utah 1978
BS Brigham Young University 1974

Angela Christine Hirbe, MD, PHD
Assistant Professor of Medicine (primary appointment)
BS Washington Univ in St. Louis 2001
MD Washington Univ in St. Louis 2009
PHD Washington Univ in St. Louis 2009

Matifadza G Hlatshwayo, MD, M PH, BS1

Instructor in Medicine (primary appointment)
MD Case Western Reserve Univ 2012
BS Drury College 2005
M PH Case Western Reserve Univ 2011
BS1 Drury College 2005

Grant S. Hoekzema, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1992

J. Langston Hoffman, MD
Instructor in Clinical Medicine (primary appointment)
BS Univ of Wisconsin Madison 1994
MD Washington Univ in St. Louis 1999

Sandra S Hoffmann, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Kansas 1976
BA University of Kansas 1972

Timothy Richard Holden, MD, MA
Assistant Professor of Medicine (primary appointment)
MD University of Minnesota 2010
BS Northwestern University 2006
MA University of Wisconsin 2013

Melissa Louise Hollie
Instructor in Clinical Medicine (primary appointment)

Christopher Vincent Holthaus, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Saint Louis University 2000

Michael J Holtzman, MD
Selma and Herman Seldin Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
MD Northwestern University 1975
BA Northwestern University 1971

Neal Holzum
Instructor in Clinical Medicine (primary appointment)

Hitoshi Honda
Adjunct Assistant Professor of Medicine (primary appointment)

Bruce Jay Hookerman, MD
Assistant Professor Emeritus of Clinical Medicine (Dermatology)
(primary appointment)
BA Dartmouth College 1964
MD Saint Louis University 1968

Barbra A Horn, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1982
BA Clark University 1975

Ian Kerst Hornstra, MD, PHD
Associate Professor of Medicine (Dermatology) (primary appointment)
MD University of MO Kansas City 1986
PHD University of Florida 1993
BA University of MO Kansas City 1985

Timothy Adam Horwedel, PHD
Adjunct Instructor in Medicine (primary appointment)
PHD Northeastern University 2008

Jianghui Hou, MS, PHD
Associate Professor of Medicine (primary appointment)
MS Edinburgh University 2000
PHD Edinburgh University 2003
BS Nanjing University 1999

Dennis Emil Hourcade, PHD, MA
Professor of Medicine (primary appointment)
BS Mass Inst of Technology (MIT) 1971
PHD Harvard University 1978
MA Harvard University 1974

Stacey L House, MD, PHD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of Cincinnati 2007
BS Yale University 1999
PHD University of Cincinnati 2005

Jacqueline Howard, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN School Not Listed 1995

David Thomas Howell
Instructor in Clinical Medicine (primary appointment)

Randall A Howell, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BS Kansas State University 1974
MD Kansas State University 1978

Thomas W Hoyt, MD
Instructor in Medicine (primary appointment)
MD University of Iowa 2016
BA MO State U (formerly SW MO St) 2009

Chyi-Song Hsieh, MD, PHD
Professor of Medicine (primary appointment)
Alan A and Edith L Wolff Distinguished Professor
Professor of Pathology and Immunology
MD Washington Univ in St. Louis 1996
PHD Washington Univ in St. Louis 1996

James J Hsieh, PHD, MD
Professor of Medicine (primary appointment)
PHD John Hopkins University 1995
MD Taipei Medical University 1990

Fong Fu Hsu, MS, PHD
Professor of Medicine (primary appointment)
MS Tsinghua University, China 1975

PHD University of Utah 1986
BS School Not Listed 1970

Kevin Hsueh, BS1, MD
Assistant Professor of Medicine (primary appointment)
BS1 Williams College 2003
BS Williams College 2003
MD New York University 2008

Raymond J Hu, MD
Instructor in Clinical Medicine (primary appointment)
BA Saint Louis University 1977
MD University of Missouri 1982

Wei-Wei Huang
Instructor in Clinical Medicine (Dermatology) (primary appointment)

Yafei Huang, MS, PHD
Instructor in Medicine (primary appointment)

John W Hubert, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1975
BA Wabash College 1971

Elizabeth Stack Huebner, MD
Assistant Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 1995
MD Loyola University Chicago 2000

Jing Hughes, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
BS Stanford University 2002
MD University of Pennsylvania 2009

Michael Evan Hughes, PHD, MS
Assistant Professor of Medicine (primary appointment)
BS Stanford University 2002
PHD Harvard University 2007
MS Stanford University 2002

Benjamin Duane Humphreys, MD, AB, PHD
Professor of Medicine (primary appointment)
Professor of Developmental Biology
MD Case Western Reserve Univ 1998
AB Harvard University 1991
PHD Case Western Reserve Univ 2000

Eva A Hurst, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
MD Washington Univ in St. Louis 2002

Mark Albert Hurt, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
Elaine Joyce Hutchison, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BS Cornell College 2011  
MD University of Arizona 2016  

Richard G. Ihnat, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Rutgers University 1987  
MD Yale University 1991  

Belinda K. Ireland, MD  
Adjunct Assistant Professor of Medicine (primary appointment)  
MD University of MO Columbia 1976  

Eva Susanne Istvan, PHD  
Associate Professor of Medicine (primary appointment)  
HHMI Specialist II  
BS University of Houston 1993  
PHD University of Texas Southwest 2000  

Carolyn M Jachna, MD  
Assistant Professor of Medicine (primary appointment)  
BS Washington Univ in St. Louis 1993  
MD Northwestern University Med 1998  

Daryl Jacobs, ME, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Washington Univ in St. Louis 1977  
ME Carnegie Mellon University 1979  
MD Washington Univ in St. Louis 1983  

Myron H Jacobs, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Louisiana St Univ Hlth Sci 1969  
BA Vanderbilt University 1965  

Steven Jacobson, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1985  
BS Rhodes College 1981  

Meagan A. Jacoby, MD, PHD  
Assistant Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 2005  
BS Johns Hopkins University 1996  
PHD Washington Univ in St. Louis 2005  

Maria Miriam Jacome Sosa, PHD  
Instructor in Medicine (primary appointment)  
PHD University of Alberta 2013  

Nhila Jagadeesan, MD  
Instructor in Medicine (primary appointment)  
BS Indiana University Purdue 2011  

MD Washington Univ in St. Louis 2015  
BA Indiana University Purdue 2011  

Poonam Jain, MD, JD  
Assistant Professor of Medicine (primary appointment)  
MD University of Iowa 1988  
BS University of Iowa 1984  
JD Saint Louis University 2004  

Sanjay Jain, PHD, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Pathology and Immunology  
PHD Northwestern University 1998  
MD Northwestern University 1999  
BA University of California 1990  

Sudhir Kumar Jain, MBBS  
Associate Professor of Medicine (primary appointment)  
MBBS Maulana Azad Medical College 1986  

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BA University of Texas Austin 1990  
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MD Government Medical College 2002  

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BA University of Chicago 2000  
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PHD University of Chicago 2006  

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BA Washington Univ in St. Louis 1972  
MA Washington Univ in St. Louis 1990  
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Christopher M. Jenkins, PHD  
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PHD Vanderbilt University 1997  
BS Michigan State University 1991  

Benjamin C. Jennings, PHD  
Instructor in Medicine (primary appointment)  
PHD Washington Univ in St. Louis 2018  
BS Univ of Wisconsin Madison 2004
<table>
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<th>Name</th>
<th>Title and Qualifications</th>
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<tr>
<td>Maya Jerath, PHD, MS, MD</td>
<td>Professor of Medicine (primary appointment)</td>
</tr>
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<td>PHD University of Texas Austin 1992</td>
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<tr>
<td>Joyce J., MD</td>
<td>Instructor in Medicine (primary appointment)</td>
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<td>MD Washington Univ in St. Louis 2016</td>
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<tr>
<td>Xuntian Jiang, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>PHD China Pharmaceutical Univ 1992</td>
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<tr>
<td>Morris Joftus, MD</td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
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<td>MD University of Illinois 1967</td>
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<tr>
<td>Tanner Michael Johanns, MD, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<tr>
<td>Eric Keith Johnson, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>MD Univ of Wisconsin Madison 1999</td>
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<tr>
<td>Reuben D. Johnson, BS1, MD, BE</td>
<td>Assistant Professor of Emergency Medicine in Medicine (primary appointment)</td>
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<tr>
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<td>William F. Johnson</td>
<td>Adjunct Instructor in Medicine (primary appointment)</td>
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<td>Grace Dizon-Retiro Jones, DOST</td>
<td>Instructor in Emergency Medicine in Medicine (primary appointment)</td>
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<td>Gregory D. Jones, DOST</td>
<td>Instructor in Emergency Medicine in Medicine (primary appointment)</td>
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<td>Heather Jones, MD</td>
<td>Assistant Professor of Medicine (Dermatology) (primary appointment)</td>
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<td>Amy M. Joseph, MD</td>
<td>Professor of Medicine (primary appointment)</td>
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<td>Barbara Jost, MD, MS</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>Randall S. Jotte, MD</td>
<td>Associate Professor of Emergency Medicine in Medicine (primary appointment)</td>
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<tr>
<td>Karen Ellen Joynt Maddox, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>Assistant Professor of Social Work</td>
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<td>Brad S. Kahl, MD</td>
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<td>Caroline Holleck Kahle, MD,</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>Sona Sharad Kamat</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<tr>
<td>Vinay Gopal Kamat, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<tr>
<td>Deborah Shipley Kane, MD</td>
<td>Assistant Professor of Emergency Medicine in Medicine (primary appointment)</td>
</tr>
<tr>
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<td>MD University of Missouri-Kansas City 2006</td>
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<td>Patricia F. Kao, BE, MD, MS2</td>
<td>Associate Professor of Medicine (primary appointment)</td>
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<td>MD Case Western Reserve University 2001</td>
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<td>Divya Kapoor, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<tr>
<td>Robert S. Karsh, MD</td>
<td>Professor of Clinical Medicine (primary appointment)</td>
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<td>Andrew M. Kates, MD</td>
<td>Professor of Medicine (primary appointment)</td>
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<td>David A. Katzman, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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MD King Edward Medical College 1973  

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MD Harvard University 1960  
BA Yale University 1956  

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Vice Provost and Assoc Dean of Graduate Medical Education  
MD Albert Einstein College of Med 1993  
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BA Barnard College 1985  
MS Albert Einstein College of Med 1990  

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MD Temple University 1979  
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MD University of Missouri 1984  
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BS Davidson College 2001  
MD Washington Univ in St. Louis 2006  

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PHD School Not Listed 1985  
UNKNOWN Rhodes College 1982  
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MD University of Rochester 1983  
BS US Military Academy 1979  

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MD University of Arkansas 1960
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MD Saint Louis University 1980

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BS School Not Listed 1981

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MS California Institute Technolo 1972

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BA Amherst College 1987

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BS Dordt College 2009
MD University of Iowa 2013

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MD University of Chicago 1966
BS University of Michigan 1962

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PHD McGill University 1982
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BS University of Illinois 1982
MD Saint Louis University 1986

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MD University of Illinois 1964

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MD Emory University 2002

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BS1 University of Georgia 1992
PHD Washington Univ in St. Louis 2000
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BS University of Georgia 1992

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MD University of Arkansas 2001  
BA Hendrix College 1997

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Professor of Medicine (primary appointment)  
BS1 Mass Inst of Technology (MIT) 1979  
MEE Princeton University 1980  
MD New York Medical College 1984  
BS Mass Inst of Technology (MIT) 1979

Vladimir Kushnir, MD  
Associate Professor of Medicine (primary appointment)  
BS University of Utah 2002  
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BA Univ of IL -Urbana-Champaign 2005  
DOST Chicago Coll of OsteopathicMed 2009  
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George B Kyel, MD, PHD, MS  
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MD University of Ghana Medical Sc 1998  
PHD University of New Mexico 2007  
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M PHIL Columbia University 2005  
PHD Columbia University 2007  
MS Columbia University 2001  
BS Columbia University 2000  
MA Columbia University 2004

Roop Lal, MS  
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MS Osmania Medical College 1971

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BA Colgate University 1995  
MD Drexel University 2004  
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MS University of Georgia 1978  
BA Colby College 1975  
PHD University of Georgia 1981

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BS Yale University 2001  
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BA Drew University 1975  
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BS Wayne State University 1967  
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BA Temple University 1972  
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MS University of London 2004  
BS Rose Hulman Institute 1992

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BA University of Iowa 2002  
MD University of Iowa 2006

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MD Saint Louis University 1983  
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MA Korea University Medical Coll 1982
BA Korea University Medical Coll 1978
PHD Korea University Medical Coll 1990

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MD Texas Tech University 1982
BA Texas Tech University 1977

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MD University of Tenn Memphis 1988
BA University of Tennessee 1984
BA1 University of Tennessee 1984

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BA Wittenberg University 1990
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Associate Professor of Biochemistry and Molecular Biophysics
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BS Amherst College 1997
PHD University of Texas Southwest 2005

Marc Stephen Levin, MD
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MD Columbia University 1981
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BA Washington Univ in St. Louis 1991
MD New York University 1996

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MD University of Miami 1976
AA University of Florida 1972

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Lewis T and Rosalind B Apple Professor of Medicine (primary appointment)
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MD Washington Univ in St. Louis 1978

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PHD Washington Univ in St. Louis 1980

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Han Li, MD
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MD Washington Univ in St. Louis 2016
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PHD Loyola University Chicago 1998
MD Shanghai Medical University 1988

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PHD Chinese Academy of Med Science 1999

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M PH Fudan University 1999
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PHD Texas Tech University 2006

Stephen Yuan-Tung Liang, BA1, MD
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BA Cornell University 1998
BA1 Cornell University 1998
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Adam Nicholas Lick, MD
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MD Louisiana St Univ Hlth Sci 2016
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Charles H Lieu, MD
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Stephen Bradley Lillard, MD
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BS Duke University 1997
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MLS Indiana University Bloomington 1983
BA Indiana University Bloomington 1982
MD University of Iowa 1999

Brandt Thomas Lydon, MD
Instructor in Medicine (primary appointment)
MD Indiana State University 2016
BS Purdue University 2012

Christopher Raymond Lynch
Instructor in Clinical Medicine (primary appointment)

John P Lynch, MD
Professor of Medicine (primary appointment)
MD Georgetown University 1989
BA Saint Louis University 1983

Alan P Lyss, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1972
MD Washington Univ in St. Louis 1976

Carl A Lyss, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS Washington Univ in St. Louis 1952
BA Washington Univ in St. Louis 1952
MD Washington Univ in St. Louis 1956

M

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Professor of Medicine (primary appointment)
MD Beijing Medical University 1990
PHD University of Cincinnati 1997

Hongming Ma, MS, PHD
Instructor in Medicine (primary appointment)
BA Qufu Normal University 1993
MS Fudan University 1996
PHD Ocean University of China, Qin 2004

Liang Ma, PHD
Associate Professor of Medicine (Dermatology) (primary appointment)
Associate Professor of Developmental Biology
BA University of CA Berkeley 1989
PHD University of CA Los Angeles 1995

Ningning Ma, MD
Instructor in Medicine (primary appointment)
BA Washington Univ in St. Louis 2009
MD Case Western Reserve Univ 2013

Kelly Mackenzie Macarthur
Assistant Professor of Medicine (Dermatology) (primary appointment)
BA Washington Univ in St. Louis 2007

Julie Kathleen MacPhee, MD
Instructor in Clinical Medicine (primary appointment)
MD Albert Einstein College of Med 2008
BS Trinity College 2003

Thomas M Maddox, MS, MD
Professor of Medicine (primary appointment)
BA Rice University 1993
MS Harvard University 2007
MD Emory University 1999

Blair B Madison, PHD
Assistant Professor of Medicine (primary appointment)
BS Washington Univ in St. Louis 1998
PHD University of Michigan 2005

William Edwin Magee, MD
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MD Duke University 1950

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Assistant Professor of Medicine (primary appointment)
BA Cornell College 1995
PHD Saint Louis University 2001
BA1 Cornell College 1995

Jambunathan Mahadevan
Instructor in Clinical Medicine (primary appointment)

Christopher A Maher, PHD
Associate Professor of Medicine (primary appointment)
Assistant Director of The Genome Institute
Associate Professor of Biomedical Engineering
PHD Stony Brook School of Medicine 2006

Nicole Maher, PHD
Assistant Professor of Medicine (primary appointment)
BA Ithaca College 1998
PHD Case Western Reserve Univ 2007

Mohamed Mahjoub, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
PHD Simon Fraser University 2007
BS Simon Fraser University 2002

Robert John Mahoney, MD
Associate Professor of Medicine (primary appointment)
BA Princeton University 1993
MD Washington Univ in St. Louis 1997

Elaine Michelle Majerus, PHD, MD
Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
PHD Washington Univ in St. Louis 1994
BA Washington Univ in St. Louis 1986
MD Saint Louis University 1998
BS Washington Univ in St. Louis 1986

Majesh Makan, MD
Professor of Medicine (primary appointment)
MD Univ of Panama School of Med 1984

Mohsin Ilyas Malik, MBBS
Instructor in Clinical Medicine (primary appointment)
MBBS Army Medical College 1999

Andrew F. Malone, MBCHB1
Assistant Professor of Medicine (primary appointment)
BA Trinity College Dublin 2000
MBCHB1 Royal College of Surgeons 2005

Kartik Mani, MBBS
Assistant Professor of Medicine (primary appointment)
MBBS Delhi University 1998

Shivaprasad Gowda Manjappa, MBBS, MD
Instructor in Clinical Medicine (primary appointment)
MBBS Medical College of India 2004
MD University of Illinois 2011

Caroline Mann, MS, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
BS Indiana University Bloomington 1986
MS Sarah Lawrence College 1988
MD Indiana University Bloomington 1993

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Tobias and Hortense Lewin Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
BA Lafayette College 1973
MD Temple University 1979

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Associate Professor of Clinical Medicine (primary appointment)
MD State University of New York 1989
BA Barnard College 1984

Jonas Marschall, MD
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MD University of Basel 1996

Jay Phillips Marshall II, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA De Paul University 1968
MD University of Missouri 1972

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MD Case Western Reserve Univ 1981
BS University of Notre Dame 1977

Nathan Russell Martin, MD
Assistant Professor of Medicine (primary appointment)
BA University of Pennsylvania 2001
MD University of Texas Southwest 2005

Thomas F Martin, MD
Associate Professor of Clinical Medicine (primary appointment)
BS Saint Louis University 1961
MD Saint Louis University 1965

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Professor of Medicine (primary appointment)
BA University of Kansas 1973
MD University of Kansas 1977

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Instructor in Clinical Medicine (primary appointment)
MD Emory University 1975

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Instructor in Clinical Medicine (primary appointment)
MBA Washington Univ in St. Louis 1999
BS University of Illinois 1990
MD Washington Univ in St. Louis 1994

Joan Alice Mass, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Temple University 1977
BA Washington Univ in St. Louis 1971

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Instructor in Clinical Medicine (primary appointment)
MBBS Kerala University 1991

Caline Mattar, MD
Assistant Professor of Medicine (primary appointment)
MD American University of Beirut 2010
BS American University of Beirut 2006

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BS University of Illinois 1971
MD Washington Univ in St. Louis 1975

Adam M May, MD
Assistant Professor of Medicine (primary appointment)
MD Loyola University Chicago 2012

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Associate Professor of Medicine (primary appointment)
MA School Not Listed 1987
PHD University of Paris 1992

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Instructor in Clinical Medicine (primary appointment)
MD American Univ of the Caribbean 1984
BS Saint Louis University 1980

Donte D McClary, MD
Instructor in Clinical Medicine (primary appointment)
Kyle Stephan McCommis, PHD
Adjunct Professor of Medicine (primary appointment)
PHD University of MO Columbia 2013
BS University of Kansas 2006

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Instructor in Medicine (primary appointment)
BS1 University of Pittsburgh 2002
PHD Washington Univ in St. Louis 2013
BS University of Pittsburgh 2002
MD Washington Univ in St. Louis 2013

Leslie Rose McCrary-Etuk, MD
Instructor in Clinical Medicine (primary appointment)
MD New York Medical College 2001

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BA Duke University 1991
MD Oregon Health Science Univers 1998
BS Portland St University 1994

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Associate Professor of Orthopaedic Surgery
Associate Professor of Physical Therapy
DPT Washington Univ in St. Louis 2005
MS Washington Univ in St. Louis 1990
AS Oakton Community College 2000
BS Washington Univ in St. Louis 1990

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Instructor in Medicine (primary appointment)
BS Seattle University 2012
MD University of Michigan 2016

Cheryl Riddle McDonough, MD
Assistant Professor of Medicine (primary appointment)
MD University of Tennessee 2001
BS Vanderbilt University 1997

Colleen McEvoy, MD
Assistant Professor of Medicine (primary appointment)
BS Fairfield University 2004
MD University of MO Columbia 2008

Janet B McGill, MA, MD
Professor of Medicine (primary appointment)
BS University of Michigan 1972
MA Northern Michigan University 1980
MD Michigan State University 1979

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Instructor in Medicine (primary appointment)
MS University of Oklahoma 2015
PHD University of Oklahoma 2018

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BA McGill University 1975
MD School Not Listed 1981

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Instructor in Clinical Medicine (primary appointment)
BA University of Missouri 1989
MD University of Missouri 1989

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BA University of California 1971
MD Washington Univ in St. Louis 1989
JD University of California 1974

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MA University of Houston 1999
PHD University of Houston 2002
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BS Carnegie Mellon University 2003
MD University of Pittsburgh 2008

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MD Universidad de San Carlos 2008

Anibal G Melo, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1991

Gary Jay Meltz, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Miami 1977
BA University of Missouri 1972

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MD Stony Brook School of Medicine 2013

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MD Washington Univ in St. Louis 1954
BA Washington & Lee 1950

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MS Boston University 2012
MD Commonwealth College 2016

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BS School Not Listed 1970
MD School Not Listed 1976

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MBBS King Edward Medical College 1999

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MD Duke University 1982
BS University of Missouri 1978

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BA Saint Louis University 1999
MD Saint Louis University 2003

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BS School Not Listed 1968

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PHD Baylor University 2011
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BS Yale University 1994

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DOST Midwestern University 2000
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Associate Professor of Pathology and Immunology
PHD University of California 1996
BS University of California 1991

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Assistant Professor of Biomedical Engineering
PHD Mass Inst of Technology (MIT) 2011
BS North Carolina State Universit 2005

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Professor of Developmental Biology
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MD University of Pennsylvania 1997
PHD University of Pennsylvania 1997
BA Washington Univ in St. Louis 1989
MD1 University of Pennsylvania 1997

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MS University of the Witwatersra 1992
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PHD California Institute Technolo 1991
BA Northwestern University 1985

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Assistant Professor of Pathology and Immunology
MD University of Oklahoma 2010
PHD University of Oklahoma 2008
BS Brigham Young University 2002

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Assistant Professor of Medicine (primary appointment)
MD University of Texas Southwest 2008
BE John Hopkins University 2000

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Professor of Medicine (primary appointment)
Professor of Genetics
BS University of Skopje - Macedon 1990
MS University of Skopje - Macedon 1994
PHD Wageningen University 2001

Bettina Mittendorfer, MS, PHD
Professor of Medicine (primary appointment)
MS University of Vienna 1999
PHD University of Texas Austin 1999

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Instructor in Medicine (primary appointment)
BA University of CA Berkeley 2006
MD Duke University 2012
BA University of CA Berkeley 2006

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Instructor in Medicine (primary appointment)
MPE Saint Louis University 2015
MD University of Duhok 2010

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Instructor in Medicine (primary appointment)
Instructor in Orthopaedic Surgery
MD Isfahan U of Medical Sciences 2004

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Instructor in Clinical Medicine (primary appointment)
BA De Paul University 1968
MD Case Western Reserve Univ 1972

Hector D Molina-Vicenty, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
BS University of Puerto Rico 1982
MD University of Puerto Rico 1985

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Instructor in Medicine (primary appointment)
MD Wright State University 1988
BA Grinnell College 1981

Jennifer Marie Monroy, MD
Assistant Professor of Medicine (primary appointment)
BS Incarnate Word College 2003
MD Univ Texas Health Science Ctr 2008

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Instructor in Clinical Medicine (primary appointment)
BS University of Missouri 1952
MD University of Pittsburgh 1954
BA Washington Univ in St. Louis 1950

Sung Ho Moon, PHD, MS
Instructor in Medicine (primary appointment)
PHD Washington Univ in St. Louis 2006
BS Yonsei University 1997
MS Yonsei University 1999

Nathan Moore, MD
Instructor in Clinical Medicine (primary appointment)
BS Texas College 2007
MD Washington Univ in St. Louis 2013

Timothy D Moore
Instructor in Clinical Medicine (primary appointment)

Zachary Andrew Morgan, MD
Instructor in Medicine (primary appointment)
MD Univ of TN - Health Sci Center 2015

Daniel Morgensztern, MD
Associate Professor of Medicine (primary appointment)
MD FTE Souza Marques 1995

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Instructor in Emergency Medicine in Medicine (primary appointment)

BS American University of Beirut 2010
MD American University of Beirut 2014

Donald G Morris, MS, MD
Instructor in Clinical Medicine (primary appointment)
MS Saint Louis University 1989
MD University of Missouri 1993
BA Benedictine College 1987

Aubrey R Morrison, MBBS
Professor of Medicine (primary appointment)
Professor of Developmental Biology
MBBS University of London 1970

Hawnwan P Moy, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Loyola University Chicago 2008
BS Benedictine University 2004

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Assistant Professor of Medicine (primary appointment)
BS Benedictine College 2004

Richard Gerard Mrad
Instructor in Clinical Medicine (primary appointment)
BA University of Missouri 1981

Philip Mudd, MD, PHD
Instructor in Emergency Medicine in Medicine (primary appointment)
MD University of Wisconsin-Madison 2013
PHD Univ of Wisconsin Madison 2011

Brian D. Muegge, MD, PHD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MD Washington Univ in St. Louis 2013
PHD Washington Univ in St. Louis 2013

Kristen L Mueller, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Medical College of Wisconsin 2010

Faquir Muhammad
Instructor in Clinical Medicine (primary appointment)

Joshua Mutambuki Muia, PHD
Instructor in Medicine (primary appointment)
BA University of Nairobi 2003
PHD Western Michigan University 2010

Daniel Kast Mullady, MD
Professor of Medicine (primary appointment)
MD University of Connecticut 2001

Monalisa Mullick, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Pediatrics  
MD University of MO Kansas City 1997

Michael E Mullins, MD  
Associate Professor of Emergency Medicine in Medicine (primary appointment)  
MD Hahnemann University 1987

Steven Robert Mumm, MS, PHD  
Associate Professor of Medicine (primary appointment)  
BS University of Missouri 1978  
MS University of Missouri 1984  
PHD Saint Louis University 1992

Junaid Munshi  
Instructor in Clinical Medicine (primary appointment)

Haris Farooq Murad, MD  
Assistant Professor of Medicine (primary appointment)  
MD Aga Khan University 2012

Jacob Gregory Murray, MD  
Instructor in Medicine (primary appointment)  
MD Des Moines University 2016  
BS University of Iowa 2011

Amy Musiek, MD  
Associate Professor of Medicine (Dermatology) (primary appointment)  
BS College of William and Mary 1999  
MD Vanderbilt University 2004

Tahsin Mustaque, MBBS  
Instructor in Medicine (primary appointment)  
MBBS Dhaka University 2012

Dharushana Muthulingam, MD, MS, BA1  
Instructor in Medicine (primary appointment)  
BA University of CA Berkeley 2005  
MD University of CA San Francisco 2012  
MS University of CA Berkeley 2009  
BA1 University of CA Berkeley 2005

Umadevi Muthyala  
Instructor in Clinical Medicine (primary appointment)

Anubha Mutneja, MBBS  
Assistant Professor of Medicine (primary appointment)  
MBBS Maulana Azad Medical College 2009

Muithi Mwanthi, MD, BS1, PHD  
Assistant Professor of Medicine (Dermatology) (primary appointment)  
MD Indiana State University 2014  
BS1 Clearwater Christian College 2004  
PHD Indiana State University 2014

Devika Nagaraj  
Instructor in Clinical Medicine (primary appointment)

Eina M Nagasako, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
BS Pomona College 1991  
PHD University of Rochester 2001  
MD Washington Univ in St. Louis 2007

Jyotirmaya Nanda  
Instructor in Clinical Medicine (primary appointment)

Nicola Napoli  
Adjunct Research Assistant Professor of Medicine (primary appointment)

Humaira K Naseer, MD  
Instructor in Medicine (primary appointment)  
MD Dow Medical College Karachi 1986

Arjun Natarajan  
Instructor in Medicine (primary appointment)

Rosanne S Naunheim, MD  
Associate Professor of Emergency Medicine in Medicine (primary appointment)  
BA Carleton College 1970  
MD University of Chicago 1978

Robert F Nease Jr, MA, PHD  
Adjunct Associate Professor of Medicine (primary appointment)  
MA Stanford University 1981  
PHD Stanford University 1989  
BS University of California 1980

Burton M Needles, MD  
Instructor in Clinical Medicine (primary appointment)  
BS City College 1970  
MD Loyola University Chicago 1974

Jeanne M Nerbonne, PHD  
Professor of Medicine (primary appointment)  
Alumni Endowed Professor of Molecular Biology and Pharmacology in Developmental Biology  
PHD Georgetown University 1978  
BS Framingham State College 1974

Elizabeth P. Newberry, PHD  
Assistant Professor of Medicine (primary appointment)  
BA Knox College 1988  
PHD Washington Univ in St. Louis 1995

Rodney D Newberry, MD  
Professor of Medicine (primary appointment)  
BA Washington Univ in St. Louis 1987  
MD Washington Univ in St. Louis 1991

Amy C Ney, MD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
MD University of Virginia 2001  
BS Mary Washington College 1997

Nguyet Minh Nguyen, BS1, MD, MD1
Assistant Professor of Medicine (primary appointment)
BS1 University of Michigan 1989
MD Wayne State University 1993
MD1 Wayne State University 1993
BS University of Michigan 1989

Elizabeth Nieman, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
MD University of MO Columbia 2012

Roland Tezeh Njei, MD
Instructor in Medicine (primary appointment)
MD University of Illinois 2016
BS University of Illinois Chicago 2011

Joan P Noelker, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BA University of Virginia 2004
MD Royal College of Surgeons 2010

Scott Monroe Nordlicht, MD
Professor of Medicine (primary appointment)
MD State University of New York 1973
BA Columbia University 1969

Tracy Wynette Norfleet, MD
Instructor in Clinical Medicine (primary appointment)
BS Xavier University Louisana 1998
MD Louisiana St Univ Hlth Sci 2002

Sabrina Nunez, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Genetics
PHD Stony Brook School of Medicine 2007
BS University of CA Berkeley 1999

Samuel R Nussbaum, MD
Professor of Clinical Medicine (primary appointment)
BA New York University 1969
MD School Not Listed 1973

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UNKNOWN Govt College Sarhodha 1968
UNKNOWN1 Nishtar Medical College Multa 1974

Frank Joseph O'Brien, MBBCH
Assistant Professor of Medicine (primary appointment)
MBBCH University College Cork 2006

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Instructor in Clinical Medicine (primary appointment)
BA University of Kansas 1972
MD School Not Listed 1977

Jane A O'Halloran, MBBCH
Assistant Professor of Medicine (primary appointment)

MBBCH National University of Ireland 2006

Julie O'Neal, PHD
Instructor in Medicine (primary appointment)
BS University of MO Columbia 1999
PHD Washington Univ in St. Louis 2009

Samuel Aaron Ockner, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
BA Miami University 1980
MD University of Cincinnati 1984

Andrew John Odden, MD
Associate Professor of Medicine (primary appointment)
BS Gustavus Adolphus College 2003
MD University of Minnesota 2007

Devin Christopher Odom, MD
Assistant Professor of Medicine (primary appointment)
MD Wake Forest University 2010

Karolyn Ann Oetjen, PHD, MD
Instructor in Medicine (primary appointment)
BS Univ of Wisconsin Madison 2003
PHD University of Michigan 2011
MD University of Michigan 2011

Gregory Olutosin Ogunnowo, MD
Professor of Medicine (primary appointment)
BA University of Ibadan 1975
MD University of Ibadan 1981

Steve Oh, MD, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Pathology and Immunology
BS Harvard University 1996
MD Northwestern University 2004
PHD Northwestern University 2002

Adewole L. Okunade, PHD
Associate Professor of Medicine (primary appointment)
BS University of Ibadan 1975
PHD University of Ibadan 1981

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Professor Emeritus of Clinical Medicine (primary appointment)
BA Harvard University 1953
MD Harvard University 1957

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Professor of Medicine (primary appointment)
Professor of Surgery (Public Health Sciences)
MPH Saint Louis University 2001
PHD University of Pennsylvania 1986
BS Southern Illinois University 1976

Robert F Onder Jr, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1987
Peter J. Oppelt, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of MO Columbia 2008  
BS Saint Louis University 2004

Mateusz Opyrchal, MD, PHD  
Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MD Rutgers University 2007  
PHD Rutgers University 2005

S. Michael Orgel, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1960  
MD Saint Louis University 1965

Matthew J Orland, MD  
Associate Professor of Clinical Medicine (primary appointment)  
MD University of Miami 1979  
BS Yale University 1975

David William Ortbals, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1970  
BS Saint Louis University 1966

Daniel Scott Ory, MD  
Professor of Medicine (primary appointment)  
Alan A and Edith L Wolff Professor of Cardiology  
Professor of Cell Biology and Physiology  
MD Harvard University 1986  
BA Harvard University 1982

Richard E Ostlund Jr, MD  
Professor of Medicine (primary appointment)  
MD University of Utah 1970  
BS University of Utah 1966

Theodore Otti, UNKNOWN  
Instructor in Clinical Medicine (primary appointment)  
UNKNOWN School Not Listed 1983

Jiafu Ou, MD  
Associate Professor of Medicine (primary appointment)  
MD Sun Yat-Sen University 1995

Edgar Turner Overton, MD  
Adjunct Assistant Professor of Medicine (primary appointment)  
MD University of Tennessee 1999  
BA University of Tennessee 1992

Toshinao Oyama, PHD, MS  
Instructor in Medicine (primary appointment)  
BS Kitasato University 2000  
PHD Chiba University 2017  
MS Chiba University 2002

Vani Pachalla, MD  
Instructor in Clinical Medicine (primary appointment)  
MD School Not Listed 1990

Russell Kent Pachynski, MD  
Assistant Professor of Medicine (primary appointment)  
BS Stanford University 1994  
MD Univ of Wisconsin Madison 2003

Robert C Packman, MD  
Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1956  
BA Washington Univ in St. Louis 1953  
BS University of Missouri 1954

Daniel Marc Paget, MD  
Instructor in Medicine (Pending Dean's Approval) (primary appointment)  
MD University of CA San Francisco 2013

Michael Alexander Paley, MD  
Instructor in Medicine (Pending Dean's Approval) (primary appointment)  
MD University of Pennsylvania 2014

Ross Ian Palis, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Vanderbilt University 2002  
BS Duke University 1998

Kevin Terrence Palka, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of Texas Southwest 2001  
BS Duke University 1995

Peter D Panagos, MD, MA  
Professor of Emergency Medicine in Medicine (primary appointment)  
Professor of Neurology  
BA Dartmouth College 1987  
MD Emory University 1994  
MA Boston University 1994

Anupam S Pande, MS, MBBS  
Assistant Professor of Medicine (primary appointment)  
MS University of Texas Houston 2011  
MBBS Byramjee Jeejeebhoy Medical Co 2009

Joseph Pangelinan, MA, PHD  
Assistant Professor in Medicine (primary appointment)  
MA Southeast Missouri St Univers 1995  
PHD University of MO St Louis 2015

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Instructor in Medicine (primary appointment)  
BA Yale University 1995  
MD St. George's University 2006

Haeseong Park, MS, MD
Assistant Professor of Medicine (primary appointment)
BS Seoul National University 2001
MS Johns Hopkins University Medic 2007
MD Seoul National University 2006

Stephanie Sun-Young Park
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MBA Southern Illinois University 1985
BS University of MO Rolla 1979
MD Saint Louis University 1994

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MD University of Louisville 1982
BA Washington Univ in St. Louis 1978

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MD University of Tennessee 2013

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MD BJ Medical College 1980

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MD Saba University School of Med 2001

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M PH Johns Hopkins University 2012
MD Wayne State University 2004
BA University of Michigan 2000

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BA Kent St University 2007
MD University of Tenn Memphis 2011

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MS School Not Listed 1969
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BS Southern Illinois University 1974
PHD University of Illinois 1980

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Instructor in Medicine (primary appointment)
BS University of Maryland 2010
MD Rutgers University 2016
MS Rutgers University 2011

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Professor of Computer Science and Engineering
Robert J Terry Professor
MA Columbia University 2000
BA University of CA San Diego 1999
PHD Columbia University 2006

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MD Washington Univ in St. Louis 2013

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BFA Southern Methodist University 1977
MS Central Michigan University 1984
PHD University of Southwestern Lo 1986

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MS University of Iowa 2005
BA Grinnell College 2003

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BA Swarthmore College 1973
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BS University of Puerto Rico 1970
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MD Washington Univ in St. Louis 1990
BS Georgetown University 1986

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BS Tulane University 2000
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BS University of Michigan 1999
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BS Lawrence University 2003
PHD Emory University 2010
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MD University of Florida 1985
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William J Phillips, MD
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BA Ohio State University 1959
MD Washington Univ in St. Louis 1963
Joel Picus, MD
Professor of Medicine (primary appointment)
BA University of Illinois 1979
MD Harvard University 1984
BS University of Illinois 1979
Stephan J Pieper, MD
Instructor in Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1983
MD Washington Univ in St. Louis 1988
Sytse J Piersma, PHD, MS
Instructor in Medicine (Pending Dean’s Approval) (primary appointment)
PHD Leiden University 2010
MS State University of Utrecht 2003
Mark Alan Pinkerton II, MD
Instructor in Medicine (primary appointment)
MD University of Mississippi 2016
BS University of Alabama 2012
Bryan Douglas Piotrowski, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2004
Beatrice Ploungastel Douglas, PHD
Instructor in Medicine (primary appointment)
PHD University of Pierre et Marie 1994
Nishant Poddar, MBBS
Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MBBS Veer Surendra Sai Medical Coll 2000
Doug Pogue, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1996
Robert Francis Poirier Jr, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD American U of Carribean SchMed 1999
Donovan Polack, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Cornell University 1979
Gregory Polites, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
MD University of Illinois Chicago 1996
Kenneth S Polonsky, MBBC
Adjunct Professor of Medicine (primary appointment)
MBBC University of the Vitwatersra 1973
Makhawadee Pongruangporn, MD
Instructor in Clinical Medicine (primary appointment)
MD Chiang Mai University 2001
Harish Ponnuru, MD
Instructor in Clinical Medicine (primary appointment)
BA University of MO Kansas City 1995
MD University of Missouri 1995
William J Popovic, MD
Assistant Professor of Medicine (primary appointment)
MD Saint Louis University 1971
BS John Carroll University 1967
Lee S Portnoff, MD, MA
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
BS Purdue University 1972
MD Washington Univ in St. Louis 1978
MA University of California 1974
Daniel E Potts, MD
Associate Professor of Clinical Medicine (primary appointment)
BS Beaufort Technical College 1968
MD Washington Univ in St. Louis 1972
William G Powderly, MD
J. William Campbell Professor of Medicine (primary appointment)
Larry J. Shapiro Director of the Institute of Public Health
MD National University of Irelan 1979
John A Powell, MD
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
MD University of Michigan 1971
BS University of Notre Dame 1967
Jennifer Lynn Powers Carson, PHD
Assistant Professor of Medicine (primary appointment)
PHD Georgia Tech 1993
BS Union University 1988
Diana A Prablek, MD
Instructor in Clinical Medicine (primary appointment)
MD Southwestern University 1988
BA Texas Christian University 1984

Lawrence Prablek, MD
Instructor in Clinical Medicine (primary appointment)
BS Southern Methodist University 1984
MD University of Texas Southwest 1988

Simeon Prager, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Yale University 1981
MD University of California 1991

Vajravel M Prasad
Adjunct Instructor in Medicine (primary appointment)

Christopher William Prater, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Pediatrics
MD Michigan State University 2017

David J Prelutsky, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Northwestern University 1975
MD Saint Louis University 1979

Rachel M. Presti, MD, PHD
Associate Professor of Medicine (primary appointment)
BA Scripps College 1990
MD Washington Univ in St. Louis 2001
PHD Washington Univ in St. Louis 2001

Patricia Elizabeth Prusaczyk, PHD, MSSW
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
BA Webster University 2007
PHD Washington Univ in St. Louis 2017
MSSW Washington Univ in St. Louis 2011

Aaron J Pugh
Adjunct Instructor in Medicine (primary appointment)

Edward Puro, MD, PHD, MS
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1975
PHD University of Toronto 1970
BS University of Toronto 1962
MS University of Toronto 1966

Iskra Pusic, MD
Assistant Professor of Medicine (primary appointment)
MD University of Zagreb 1997

Usman Qayyum
Instructor in Clinical Medicine (primary appointment)

Nishath Quader, MD
Assistant Professor of Medicine (primary appointment)
BS University of Illinois Chicago 2002

MD Northwestern University 2007

Annabel Quinet De Andrade, PHD2, MS, PHD1
Instructor in Medicine (primary appointment)
BS University of Paris 2007
PHD2 University of Paris 2012
MS University of Paris 2009
PHD1 University of Paris 2012

Patricia M Quinley, MD
Instructor in Clinical Medicine (primary appointment)
MS School Not Listed 1992

Radha Devi Radhakrishna Pillai, MBBS
Assistant Professor of Medicine (primary appointment)
MBBS Jawaharial Inst of Med Educ 2006

Srinivasan Raghavan
Instructor in Clinical Medicine (primary appointment)

Prabha Ranganathan, MBBS
Professor of Medicine (primary appointment)
MBBS Kilpauk Medical College 1990

Joseph Lee Ransdell, PHD
Instructor in Medicine (primary appointment)
BS Univ of Minnesota Twin Cities 2007
PHD University of MO Columbia 2013

Srinivasan Dubagunta Rao
Adjunct Instructor in Medicine (primary appointment)

Antonella Luisa Rastelli, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Surgery (General Surgery)
BA University of Verona 1984
MD University of Verona 1991

Keith M Ratcliff
Instructor in Clinical Medicine (primary appointment)

Gary A Ratkin, MD
Associate Professor of Clinical Medicine (primary appointment)
Instructor in Clinical Radiation Oncology
BA Rice University 1963
MD Washington Univ in St. Louis 1967

Lee Ratner, MA, PHD, MD
Professor of Medicine (primary appointment)
Alan A and Edith L Wolff Professor of Oncology
Professor of Molecular Microbiology
MA Harvard University 1973
PHD Yale University 1979
BA Harvard University 1973
MD Yale University 1979

Daniel Rauch, BS1, PHD
Assistant Professor of Medicine (primary appointment)
BS Augustana College 1996
BS1 Augustana College 1996
PHD University of Iowa 2001

Michael I. Rauchman, MD
Professor of Medicine (primary appointment)
Chromalloy Endowed Professor
Professor of Developmental Biology
BA Tufts University 1980
MD McGill University 1984

Saadia Taufiq Raza, MD
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
MD Emory University 1997
BA Emory University 1993

Babak Razani, PHD, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
PHD Albert Einstein College of Med 2003
MD Albert Einstein College of Med 2003

Timothy Patrick Rearden, MS, MD
Associate Professor of Medicine (primary appointment)
MS University of MO Columbia 1981
BS Southeast Missouri St Univers 1979
MD University of MO Columbia 1985

Arhaanth D Reddy
Instructor in Clinical Medicine (primary appointment)

Kavitha Reddy, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BA University of MO Kansas City 2019
MD University of MO Kansas City 2019

Katherine Marie Reeder, PHD
Adjunct Assistant Professor of Medicine (primary appointment)
PHD University of Iowa 2007

Dominic N Reeds, MD
Associate Professor of Medicine (primary appointment)
MD Texas Tech University 1996
BA University of Texas Austin 1992

Susan Robinson Reeds, MD
Assistant Professor of Medicine (primary appointment)
BS Haverford College 1990
MD University of Rochester 1996

Lester T Reese, MD
Professor of Clinical Medicine (Dermatology) (primary appointment)
MD Tulane University 1966

BS Tulane University 1962

Allison Ann Regier, MS, PHD
Instructor in Medicine (primary appointment)
MS University of Notre Dame 2009
BS Bethel College 2004
PHD University of Notre Dame 2011

Margaret Reiker, PHD, MD, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
PHD Saint Louis University 1991
MD Saint Louis University 1993
UNKNOWN Saint Louis University 1986

Melissa Andrea Remiers, MD
Assistant Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 2008
BA Washington Univ in St. Louis 2008
MD Saint Louis University 2013

Craig K Reiss, MD
Professor of Clinical Medicine (primary appointment)
MD University of Missouri 1983
BA University of Missouri 1979

Jacqueline Levy Reiss, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1990
BA University of MO Kansas City 1989

Maria Sara Remedi, PHARMD, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
BS University of Cordoba 1987
PHARMD University of Cordoba 1989
PHD University of Cordoba 1999

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Instructor in Medicine (primary appointment)
MS Shanghai Jiao Tong University 2019
MD Tongji University 2019
PHD City University of NY 2019

Hilary Elizabeth Lee Reno, PHD, MS, MD
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PHD University of Illinois 2000
MS University of Illinois 1997
MD University of Illinois 2002

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Associate Professor of Biomedical Engineering
Associate Professor of Developmental Biology
MD Mount Sinai School of Medicine 2004
BS Lehigh University 1995
MS Mount Sinai School of Medicine 2000
PHD Mount Sinai School of Medicine 2002

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BA University of MO Columbia 2004
MD University of MO Columbia 2008

Michael P Rettig, PHD
Associate Professor of Medicine (primary appointment)
BS Illinois State University 1993
PHD Purdue University 2000

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BA University of Illinois 1974
MD University of Illinois 1979

Lois F. Richard, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD Saint Louis University 1999
BS Murray St University 1982
PHD Saint Louis University 1998

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BS Univ of Wisconsin Madison 2001
MD Washington Univ in St. Louis 2005

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Assistant Professor of Medicine (primary appointment)
BFA Tulane University 1996
MD Tulane University 2000

Christopher Rigell, MD
Instructor in Medicine (primary appointment)
MD University of Alabama 2013
BA Vanderbilt University 2009

Joseph Cataquiz Rimando, MD
Instructor in Medicine (primary appointment)
MD Medical College Georgia 2016
BS University of Georgia 2011

Tracy Marie Riordan, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2000
BA Saint Louis University 1996

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BS Western Kentucky University 2004
PHD Johns Hopkins University 2009

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BS Haverford College 1983
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M PHIL Cambridge University 1985

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MD National Autonomous U of Mex 1980

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Instructor in Clinical Medicine (primary appointment)
MD Tehran University 1988

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MD Washington Univ in St. Louis 1965

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MD School Not Listed 1987
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Associate Professor of Medicine (primary appointment)
PHD Univ of Wisconsin Madison 1985
BS Johns Hopkins University 1979

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BS University of Dayton 2007
MD University of Illinois Chicago 2011

Richard Rood, MD
Professor of Medicine (primary appointment)
MD Wright State University 1982

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Assistant Professor of Medicine (primary appointment)
PHD Lakehead University 2012
BS Lakehead University 2005
MS Lakehead University 2007

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Professor of Pediatrics
Tracey C and William J Marshall Professor of Medicine
BS Columbia University 1985
MD Mount Sinai School of Medicine 1989

Anna Roshal, MD
Assistant Professor of Medicine (primary appointment)
BS University of Rochester 1993
MD University of Rochester 1997

Ilana Shaina Rosman, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
Associate Professor of Pathology and Immunology
MD Washington Univ in St. Louis 2008
BA Brown University 2000

Bruce J Roth, MD
Professor of Medicine (primary appointment)
MD Saint Louis University 1980
Marcos Rothstein, MD
Professor of Medicine (primary appointment)
MD University of Zulia 1974

Ernest Tuttle Rouse III, MD
Instructor in Clinical Medicine (primary appointment)
BA Princeton University 1967
MD Washington Univ in St. Louis 1971

Jeremy Rower, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Cincinnati 1993
MD University of Cincinnati 1997

Deborah C Rubin, MD
Professor of Medicine (primary appointment)
Professor of Developmental Biology
MD Albert Einstein College of Med 1981
BS Mass Inst of Technology (MIT) 1977

Myra L. Rubio, MD
Associate Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 1994
MD Indiana University Bloomington 1998

Lela Ruck, MD
Instructor in Medicine (primary appointment)
MD Texas Tech University 2014

Paetra Ruddy, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
BA Bard College 1997
MD University of Iowa 2011

Peter G Ruminski, MS
Instructor in Medicine (primary appointment)
BS Saint Louis University 1975
MS Washington Univ in St. Louis 1992
BS Saint Louis University 1977

Brent E Ruoff, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
MD Saint Louis University 1981
BS Graceland College 1977

Michael B Rusche
Adjunct Instructor in Medicine (primary appointment)

Tonya D Russell, MD1, MD, BS1
Professor of Medicine (primary appointment)
MD1 University of Florida 1997
BS University of Florida 1993
MD University of Florida 1997
BS1 University of Florida 1993

Ilaria Russo, MS, PHD, MS
Adjunct Assistant Professor of Medicine (primary appointment)
BS University of Palermo 1998

Raya Saba, MD
Instructor in Medicine (primary appointment)
MD Damascus University 2011

Molly Sachdev, MD, M PH
Assistant Professor of Medicine (primary appointment)
MD Duke University 2001
M PH University North Carolina 2000

Justin Sadhu, MD
Assistant Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 2007

Mehrdad Saeed-Vafa, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 2000

Jose Bernardo Saenz, MD, PHD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2011
BA Cornell University 2003
PHD Washington Univ in St. Louis 2009
BA Cornell University 2003

Sonny Satnam Saggar
Instructor in Clinical Medicine (primary appointment)

Rajan Sah, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Cell Biology and Physiology
MD University of Toronto 1998

Sana Saif Ur Rehman, MD
Assistant Professor of Medicine (primary appointment)
MD King Edward Medical College 2007

Kaori A. Sakurai
Instructor in Clinical Medicine (primary appointment)

Maamoun Salam, MD
Assistant Professor of Medicine (primary appointment)
MD Damascus U. Medical School 2009

Christine Joan Salter, DC, MD
Instructor in Clinical Medicine (primary appointment)
DC Logan College of Chiropractic 1991
MD Saint Louis University 1998
BS Reading University 1982

Robert J Saltman, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Yale University 1976
MD Washington Univ in St. Louis 1980

John Mark Samet, MD
Instructor in Clinical Medicine (primary appointment)
BS Washington & Lee 1964
MD University of Missouri 1968

Dmitri Samovski, PHD
Assistant Professor of Medicine (primary appointment)
PHD Hebrew University 2009

Lawrence E Samuels, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
BA University of Texas Austin 1972
MD Washington Univ in St. Louis 1976

Guadalupe Sanchez, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
BA Berry College 1974
MD Harvard University 1978

Sarah Anne Sandberg, MD
Instructor in Medicine (primary appointment)
MD Medical University of Sth Car 2008

Mark Steven Sands, PHD
Professor of Medicine (primary appointment)
Professor of Genetics
PHD State Univ of NY Stonybrook 1990
BS Rochester Institute of Techno 1980

Kristen Marie Sanfilippo, MHS, MD
Assistant Professor of Medicine (primary appointment)
MHS Washington Univ in St. Louis 2012
BS Washington Univ in St. Louis 2003
MD University of MO Columbia 2007

Sumithra Sankaraman, MS, PHD
Instructor in Medicine (primary appointment)
MS Indian Institute Of Technology 1997
PHD Institute of Math Sciences 2003
BS Fergusson College 1995

Daniel Jose Santa Cruz, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
MD Universidad de Buenos Aires 1971

Evelio E. Sardina, PHD, MS, MD
Instructor in Clinical Medicine (primary appointment)
PHD University of South Florida 1990
BA Rutgers University 1985
MS University of South Florida 1988
MD University of South Florida 1994

Gregory Stephen Sayuk, MD
Associate Professor of Medicine (primary appointment)

Associate Professor of Psychiatry
MD University of Texas Austin 2000

Lawrence R Schacht, MD
Instructor in Clinical Medicine (primary appointment)
BA University Wyoming 1971
MD Oregon Health Science Univers 1975

Jean E. Schaffer, MD
Adjunct Professor of Medicine (primary appointment)
MD Harvard University 1986
BA Harvard Radcliff 1982

Richard O. Schamp, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Kansas 1978
BA Emporia State University 1974

Jennifer Lynn Scheer, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1994

Erica Lynn Scheller, DDENT, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
DDENT University of Michigan 2011
BS Michigan State University 2004
PHD University of Michigan 2011

Mark Scheperle, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1989
BA University of Missouri 1989

Alvin K Schergen, MD
Instructor in Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1976
MD Saint Louis University 1980

Joel D. Schilling, MD, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Pathology and Immunology
MD Washington Univ in St. Louis 2003
PHD Washington Univ in St. Louis 2001
BA Colorado College 1996

Tania L Schmid, MD
Instructor in Clinical Medicine (primary appointment)
BA University of Mississippi 1981
MD University of Mississippi 1985

Richard Urban Schmidt Jr
Instructor in Emergency Medicine in Medicine (primary appointment)

Robert Jay Schneider, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Johns Hopkins University 1973
MD Johns Hopkins University 1976

Erin R. Schockett, MD
Instructor in Clinical Medicine (primary appointment)  
MD Brown University 2005

Mark Andrew Schroeder, MD  
Associate Professor of Medicine (primary appointment)  
BS University of Toledo 1999  
MD University of Cincinnati 2003

Alexander E Schuetz, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Saint Louis University 1991  
MD Saint Louis University 1996

Stephen Schuman, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1973

Benjamin D Schwartz, MD, PHD  
Professor of Clinical Medicine (primary appointment)  
Adjunct Professor of Medicine  
MD School Not Listed 1972  
PHD School Not Listed 1971  
BA Columbia College 1965

David B Schwartz, MA, PHD, MD  
Associate Professor of Medicine (primary appointment)  
BS University of Michigan 1980  
MA Washington Univ in St. Louis 1987  
PHD Washington Univ in St. Louis 1986  
MD Washington Univ in St. Louis 1987

Evan Stuart Schwarz, MD  
Associate Professor of Emergency Medicine in Medicine  
(primary appointment)  
MD University of Texas Austin 2005  
BA University of Texas Austin 2001

Kristen Ann Scullin-Hartman, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD University of MO Kansas City 1988

David Seltzer, MD  
Assistant Professor of Emergency Medicine in Medicine  
(primary appointment)  
MD Southeastern Illinois College 1993

Jay R Seltzer, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BA University of Missouri 1987  
MD University of Missouri 1987

Clay F Semenkovich, MD  
Irene E and Michael M Karl Professor of Endocrinology and Metabolism in Medicine  
(primary appointment)  
Professor of Cell Biology and Physiology  
BA University of Virginia 1977  
MD Washington Univ in St. Louis 1981

Deepali Prabir Sen, MBBS, MD  
Assistant Professor of Medicine (primary appointment)  
MBBS Grant Medical College 1999  
MD University of Mumbai 2003

Joseph Michael Seria, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1968  
BS St Vincent College 1964

Harvey Serota, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Johns Hopkins University 1982  
BA Johns Hopkins University 1976

James F Sertl, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1962  
MD Saint Louis University 1966

Liang Shan, PHD, MS  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Pathology and Immunology  
PHD Johns Hopkins University 2012  
MS Fudan University 2007  
BA Nankai University 2003

Elaine Yilin Shao, MD  
Instructor in Medicine (primary appointment)  
MD East Carolina University 2016  
BS Wake Forest University 2012

Jieya Shao, PHD  
Assistant Professor of Medicine (primary appointment)  
PHD Oklahoma St University 2002  
BS Nankai University 1996

Rajiv Kumar Sharma  
Adjunct Instructor in Medicine (primary appointment)

Gerald Stephen Shatz, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1974  
BA Northwestern University 1970

Nidal Shawahin, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Jordan 1988

Jonathan Holden Sheehan, PHD  
Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
BA Harvard University 1988  
PHD Vanderbilt University 2006

David M. Sheinbein, MD  
Associate Professor of Medicine (Dermatology) (primary appointment)  
MD Saint Louis University 1995  
BA University of CA Berkeley 1987

Mounir M Shenouda, UNKNOWN  
Instructor in Clinical Medicine (primary appointment)
UNKNOWN Alexandria University 1984

Adrian Shifren, MBBCH, MS
Associate Professor of Medicine (primary appointment)
MBBCH University of the Witwatersra 1996
BS University of the Witwatersra 1993
MS Washington Univ in St. Louis 2011

Haina Shin, PHD
Assistant Professor of Medicine (primary appointment)
PHD University of Pennsylvania 2009
BA Northwestern University 2004

Bernard L Shore, MD
Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1977
BS Washington Univ in St. Louis 1972

George Ryan Shuert, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
MD University of Houston 2006

Robert B Shuman, MD
Associate Professor of Clinical Medicine (primary appointment)
MD University of Missouri 1981
BA Brandeis University 1977

Sherry E Shuman, MD
Associate Professor of Clinical Medicine (primary appointment)
BS University of Michigan 1978
MD Wayne State University 1982

Jeffrey E Siegler, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Ross University School of Medi 2011
BS University of California in Ri 2004

Christine A Sigman, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1996
BA Saint Louis University 1991

Jessica Monique Silva-Fisher, PHD
Instructor in Medicine (primary appointment)
PHD Mayo Graduate School 2011
BS St Marys University 2005

Julie Martha Silverstein, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Neurological Surgery
BA New York University 2004
MD Drexel University 2007

Randy B Silverstein, MD
Instructor in Clinical Medicine (primary appointment)

Robert W Sindel, MD
Instructor in Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1969

MD Washington Univ in St. Louis 1975
Sanford S Sinoff, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BS Harvard University 1992
MD Brown University 1996

Gary Singer, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Toronto 1987

Gurcharan J Singh, MD
Instructor in Clinical Medicine (primary appointment)
BS Delhi University 1968
MD Delhi University 1975

Jasvindar Singh, MD
Associate Professor of Medicine (primary appointment)
MD Fiji School of Medicine 1988

Nathan Singh, MD, MS
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD University of Pennsylvania 2013
BA Haverford College 2006
BA Haverford College 2006
MS University of Pennsylvania 2013

Sudhir Man Singh, MBBS
Instructor in Medicine (primary appointment)
MBBS Chittagong Medical College 2004

Marc Alan Sintek, MD
Assistant Professor of Medicine (primary appointment)
MD Univ of Nebraska at Kearney 2008

Donald A Skor, MD
Professor of Clinical Medicine (primary appointment)
MD Rush University 1978
BA Washington Univ in St. Louis 1973

Amanda Melanie Smith, PHD
Instructor in Medicine (primary appointment)
PHD Univ of New Castle Medical Sch 2014

Gordon Ian Smith, MS, PHD
Assistant Professor of Medicine (primary appointment)
BS University College Chichester 2001
MS University College Chichester 2002
PHD University of Aberdeen 2006

Raymond P Smith, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Virginia 1984
BA Vassar College 1980

Timothy Robert Smith, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Mississippi 1983
MD University of Mississippi 1989
Timothy W. Smith, PHD, MD
Professor of Medicine (primary appointment)
PHD Oxford University 1989
BS Duke University 1986
MD Duke University 1993

Michael C Snyder
Adjunct Instructor in Medicine (primary appointment)

Sandeep Sodhi, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD University of Illinois 2010

Allen D Soffer, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1983

Dorothy Katherine Sojka, PHD
Instructor in Medicine (primary appointment)
PHD University of Rochester 2011

Stephanie Rose Solomon, PHD
Adjunct Assistant Professor of Medicine (primary appointment)
PHD Emory University 2008
BS Ohio State University 2001

Rand Washburn Sommer, MD
Associate Professor of Clinical Medicine (primary appointment)
BS Davidson College 1976
MD Washington Univ in St. Louis 1980

Hani Charles Soudah, MD, PHD
Associate Professor of Clinical Medicine (primary appointment)
MD School Not Listed 1983
PHD School Not Listed 1988

George Souroullas, PHD
Assistant Professor of Medicine (primary appointment)
PHD Baylor University 2010
BA Ohio Wesleyan University 2004

William F Southworth, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1975
BA Washington Univ in St. Louis 1969

James Joseph Spadaro Jr, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Louisiana St University 1976

Michael L Spearman, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Kansas Medical 1982
BS Kansas State University 1978

Andrej Spec, MD
Assistant Professor of Medicine (primary appointment)
MD University of Illinois 2010
BS Loyola University Chicago 2005

David H. Spencer, PHD, MD
Assistant Professor of Medicine (primary appointment)
BS University of Washington 2001
PHD University of Washington 2008
MD University of Washington 2010

John Spertus
Adjunct Professor of Medicine (primary appointment)

Michael Spezia
Instructor in Clinical Medicine (primary appointment)

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Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1983
BA New College California 1976

Paul M Stein, MD
Professor of Clinical Medicine (primary appointment)
BA University of Rochester 1967
MD Saint Louis University 1971

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Associate Professor of Medicine (primary appointment)
M ED University of Virginia 1987
BA Barnard College 1962
PHD University of Virginia 1990

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Associate Professor of Medicine (primary appointment)
PHD Arizona State University 2000

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MD University of Toledo 2013
BA Case Western Reserve Univ 2009

William F Stenson, MD
Dr Nicholas V Costrini Professor of Medicine (primary appointment)
BS Providence College 1967
MD Washington Univ in St. Louis 1971

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MA Washington Univ in St. Louis 2003
BA Washington Univ in St. Louis 1999
MD Washington Univ in St. Louis 2005

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BA State Univ of NY Buffalo 2004
MD New York Medical College 2008

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Associate Professor of Genetics
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BA Washington Univ in St. Louis 1998
MD University of Illinois Chicago 2006
PHD University of Illinois Chicago 2006

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MD University of CA Los Angeles 1991
BA Washington Univ in St. Louis 1986

James Andrew Stokes, MD
Instructor in Clinical Medicine (primary appointment)
BA Stanford University 1976
MD University of Missouri 1984

Michael Gary Stone, MD
Instructor in Clinical Medicine (primary appointment)
MD Kansas City Univ Med/Bioscience 2008

Cristina Strong, PHD
Assistant Professor of Medicine (Dermatology) (primary appointment)
PHD University of Alabama 2002

Christopher Michael Sturgeon, PHD
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Assistant Professor of Developmental Biology
BS Carleton University 2001
PHD University of British Columbia 2006

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PHD Nanjing Agriculture Univ 2006
BS Shihezi Medical College 1996
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BS Beijing University 1998
PHD Washington Univ in St. Louis 2004

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Aaron Martin Ver Heul, PHD, MD
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<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution(s)</th>
</tr>
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<tbody>
<tr>
<td>Kiran Raj Vij, MD</td>
<td>Associate Professor of Medicine (primary)</td>
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<tr>
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<tr>
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<thead>
<tr>
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<tbody>
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M25 Medicine

M25 Medicine 507 Practice of Medicine I
POM I is a large course that spans all three blocks of the first year. It is composed of three content areas: Clinical Skills, Patient, Physician, and Society Clinical Knowledge. Each of these three content areas has two or more sections, and each is run by a faculty section leader. POM I employs a variety of teaching techniques, instructors and venues. This includes lecture, small group discussions, panel sessions, one-on-one hospital interviews, standardized patient sessions, a patient home visit, and visits to both a primary care office and a city clinic. What are the educational goals of POM I?

Students will learn to do the following: (1) Perform a complete history and physical examination with thoroughness, accuracy, sensitivity and compassion. (2) Communicate effectively, efficiently and compassionately with patients, families and other health professionals. (3) Describe and analyze the statistical methodology of clinical studies and apply the results to individuals and groups of patients. (4) Identify and investigate ethical, cultural, socioeconomic and political factors relevant to medical interactions. (5) Examine and analyze personal and professional competencies, limitations and behaviors. How do we accomplish these goals? (1) Learning skills and techniques requires a cycle of steps: preparation, background reading, attempts at skill performance, analysis and reflection on performance, discussion of potential improvements and successive performance of the skill with advancement to a new level of expertise. (2) The focus is on learning skills. Students practice each skill (e.g., interviewing) in a variety of venues and situations of varying complexity. This course is for students to learn how to do things that they will use to take care of patients and families. (3) Students will work in multiple learning environments. (a) Academic environments: Small group sessions for discussion, small group practice sessions, peer learning, small group presentations, individual and group writing assignments, and reflections on experiences are the preferred learning locations. (b) Clinical environments: Inpatient units with faculty and WUSM IV mentors, standardized patient experiences with videotape review, physicians’ offices, patients’ homes with and without home care professionals, and a city clinic. Credit 198.5 units.

M25 Medicine 605A Infectious Diseases
The Infectious Diseases course teaches both organism-specific and organ-specific approaches to disease caused by microbes. The course expands upon the material presented in the first year concerning bacteria, viruses, fungi and parasites and their involvement in causation of human disease. It explores the complex interaction between microbes and host in the individual patient, and at the broader public health level. The course introduces the recognition and initial management of common infectious diseases. Educational methods include lecture, interactive in-class case discussions and review sessions, and student-led clinical case discussions in small groups. Credit 51 units.

Courses
Courses include the following:

• M25 Medicine (p. 60)
• M27 Emergency Medicine (p. 67)
M25 Medicine 596A Rheumatology
A major focus of the course is teaching "how to think like a rheumatologist," emphasizing the concept of clinical diagnosis: the history and physical generate a clinical hypothesis, which is supported by laboratory tests. Inflammatory arthritis (rheumatoid arthritis, spondyloarthropathies, crystalline disorders, and infectious arthritis), classic "autoimmune diseases" (lupus, inflammatory myopathy, and scleroderma), and vasculitic syndromes are presented. A team-based learning exercise on rheumatology lab tests gives students a chance to teach one another the details. Two separate sessions with four unknown patients gives students a chance to interview patients and try to make a diagnosis.
Credit 30 units.

M25 Medicine 607 Practice of Medicine II
The goal of The Practice of Medicine (POM) course is to provide students with the knowledge, skills, and attitudes essential to patient care regardless of specialty. POM II is a continuation of POM I and will continue to address various interfaces between patients, physicians, and society and will also introduce the advanced physical exam and approaches to clinical thinking and decision-making. The sections of POM II include Clinical Skills, Case Development, Communication Skills, Ophthalmology, Radiology, Community and Public Health, Ethics and Health Policy Humanities, and Scientific Methods. The learning objectives for each section of POM II emphasize topics and skills used in all fields of medicine, and the majority of the course will be taught in small groups or through clinical experiences.
Credit 89 units.

M25 Medicine 612A Pulmonary Diseases
The pulmonary pathophysiology course is designed to familiarize medical students with the pathophysiological mechanisms underlying diseases of the pulmonary system. The course begins with a brief review of pertinent pulmonary physiology and pulmonary function and then explores how pathologic disorders alter normal lung physiology, resulting in the clinical presentation of disease. Major categories of clinical pulmonary diseases discussed include obstructive lung diseases, restrictive lung diseases, pulmonary vascular diseases, and pleural disease. Educational methods include lectures, team-based learning, and review sessions.
Credit 22.5 units.

M25 Medicine 613B Renal & Genitourinary Diseases
This course focuses upon the wide variety of renal diseases. It will begin with a brief review of pertinent renal physiology, and then will explore disorders of fluids/electrolytes (abnormalities in plasma water/solute balance), patterns of acute and chronic kidney injury (including nephritic/nephrotic syndromes and renal involvement in systemic disorders), and finally the options available when end stage kidney disease is reached (hemodialysis, peritoneal dialysis, transplantation). The course contains a mixture of lecture, small group, team-based learning, case-based presentations, and patient presentation.
Credit 38 units.

M25 Medicine 614 Dermatology
The dermatology second-year course is designed to provide medical students with a foundation in dermatology that will support future learning and improve diagnostic skills in general medicine and in a wide variety of specialties. Medical students will learn how to describe skin lesions and the pathophysiologic basis and clinical characteristics of major dermatologic diseases. Major categories of clinical skin diseases and their most prominent constituents will be discussed, including papulosquamous diseases, blistering diseases, infectious diseases, and benign and malignant neoplasms.
Credit 8 units.

M25 Medicine 615A Endocrinology and Metabolism
The endocrine pathophysiology course aims to provide an understanding of the pathophysiology and clinical manifestations of common endocrine disorders. Emphasis is placed upon relevant clinical history and physical examination as well as the interpretation of investigations for endocrine disorders. Basic principles of treatment of endocrine disorders will also be discussed. Lectures are supplemented by organ-specific clinical case discussions.
Credit 31 units.

M25 Medicine 620A Gastrointestinal and Liver Diseases/Nutrition
This course discusses the pathophysiological mechanisms underlying diseases of the gastrointestinal tract including esophagus, stomach, small and large intestines, liver, gall bladder and pancreas. A series of lectures related to nutrition and the impact of nutritional disorders on health and disease are also included. Lectures are supplemented by group seminars that include discussion of clinical case presentations.
Credit 32 units.

M25 Medicine 625A Hematology and Oncology
The hematology pathophysiology course exposes students to common hematologic disorders and hematologic malignancies. The course utilizes lectures, clinical case discussions and practical sessions involving microscopy.
Credit 39 units.

M25 Medicine 707 Practice of Medicine III
Objectives: 1. To review challenges and dilemmas relevant to the practice of clinical medicine. 2. To examine clinical experiences from a variety of perspectives. In this course, themes and topics relevant to students in their clinical stage of training are discussed. Session formats include lecture, panel discussion and/or small group. As students exchange
M25 Medicine 710 Medicine Clerkship
The Medicine clerkship provides supervised study of patients in both inpatient and ambulatory settings. For the inpatient rotations, students are assigned as clinical clerks to patients admitted to the general medical teaching services of Barnes-Jewish Hospital and Veterans Administration Medical Center. For the outpatient rotations, students learn primary care in internal medicine and family medicine clinics at Barnes-Jewish Hospital or community-based practices. Teaching is provided by the chief of service, attending physicians, house officers, consultants, chief residents, and regularly scheduled conferences. Formal instruction is given regarding core internal medicine topics during the clerkship. A minimum of 12 weeks is required: three consecutive four-week rotations.
Credit 462 units.

M25 Medicine 714 Ambulatory Clerkship: Emergency Medicine
The Urgent Care area (UCA) serves as our site for the WUSM III Ambulatory Care Rotation. Three students at a time are assigned to this four-week rotation. Students will spend their first day in an orientation session learning suturing, ECG interpretation and airway management (including intubation skills) in hands-on laboratories. They will also review pelvic examinations and view an education video on domestic violence. On day two, they begin primarily evaluating non-emergent patients in Urgent Care and report directly to an Emergency Medicine attending. There are four hours of conferences per week (8-10 a.m. on Tuesday and Wednesday mornings) — attendance is mandatory. Discussions are currently underway to allow students to participate in helicopter ride-alongs with ARCH Airmedical Services. Students can expect to gain a wide range of skills in evaluating uncomplicated upper respiratory infections, urinary tract infections, sexually transmitted diseases, lacerations, eye problems, rashes, simple extremity trauma — in general, “bread and butter” medical/surgical problems. Students do a case presentation (15 min.) at the close of the block.
Credit 154 units.

M25 Medicine 740 Dermatology Clerkship
The goal of the dermatology clerkship is to provide a guide for the student to appreciate dermatology within the broader perspectives of medicine and biology. The student will develop familiarity with dermatologic vocabulary, learn to recognize and initiate therapy of common dermatologic disorders and become cognizant of uncommon or complicated dermatologic problems that require specialty care. Emphasis will be placed on careful history taking and physical examination. Students will always work under the direction of the resident physician and the attending physicians in the clinic setting. Credit 154 units.

M25 Medicine 750 Geriatrics Clerkship
The primary goal of this rotation is for students to gain proficiency in the principles of geriatric evaluation and management, including the medical, psychological, social, and functional assessments of older adults. Students are expected to participate in the evaluation of three to five patients per week in a variety of settings, including the outpatient Geriatric Assessment Clinic, the in-patient Geriatric Consult service, Parc Provence nursing home, and the Rehabilitation Institute of St. Louis (TRISL). Students will also have the opportunity to participate in hospice and home care visits and interdisciplinary team meetings and to observe an assessment at the Washington University Alzheimer’s Disease Research Center. Students are expected to attend weekly conferences while on the rotation. The day normally begins at 8:30 a.m. and is usually finished by 5:30 p.m. There is no night or weekend call. Time is provided to read the detailed syllabus/bibliography. Many clinical activities are off-site from the medical campus. Students will be required to coordinate transportation to and from such sites. Students will be expected to give an oral presentation on a topic of their choice once during the rotation.
Credit 154 units.

M25 Medicine 801 General Medicine Subinternship — BJH
The purpose of the General Medicine Subinternship is the development of expertise in the care of hospitalized patients in a well-supervised teaching environment. Subinterns act as their patients’ interns under the supervision of residents and attending physicians. Subinterns have the same on-call and admitting schedules as the interns on their teams and are assigned up to two new patients each admitting day. Subinterns are not required to spend call nights in the hospital. Except in emergencies, subinterns are the first individuals to evaluate patients admitted to medical service teams. A diagnostic and therapeutic approach to the patient is planned in consultation with the resident. Subinterns assume primary responsibility for the daily care of their patients, under the supervision of resident and attending physicians. This includes evaluation on daily rounds, scheduling and obtaining results of diagnostic studies, planning therapy, making arrangements for care after discharge and communicating with patients and their families. Subinterns attend the same conferences as the house staff.

M25 Medicine 805 Rheumatology
Students will be involved in the diagnostic work-up and management of patients with conditions such as systemic lupus erythematosus, rheumatoid arthritis, scleroderma, vasculitis (ANCA-associated vasculitis, temporal arteritis, etc.), spondyloarthropathies (ankylosing spondylitis, psoriatic arthritis, reactive arthritis, etc.), and gout; there is less exposure to osteoarthritis and regional musculoskeletal problems. By working closely with a faculty member, fellows and medical residents, students become integral and active members of the rheumatology service for inpatient consultations and outpatient clinics at Barnes-Jewish Hospital. An emphasis is placed on the physical examination of joints and the musculoskeletal system, synovial fluid analysis, and interpretation of diagnostic tests and radiographs. Students attend two rheumatology conferences held weekly. A rotation limited to outpatient rheumatology is possible by prior arrangement with the course director.
M25 Medicine 807 General Medicine Subinternship — VA
The purpose of the General Medicine Subinternship at the VA Medical Center is to develop proficiency in the care of hospitalized patients on an internal medicine ward. Subinterns will have similar responsibilities as interns, with appropriate supervision by the attending and resident physicians. They have the same on-call/admitting schedules as the interns and participate in the same teaching conferences, but they do not take overnight call. Subinterns should admit at least two patients per call day, and they should be the first to evaluate the patients admitted to the medical service, except in emergencies. A diagnostic and therapeutic approach to evaluating each patient is planned in consultation with the resident. Subinterns assume primary responsibility for the daily care of their patients, including evaluating each patient daily, presenting on morning rounds entering orders (discussed with and co-signed by the resident), interpreting results of diagnostic studies, calling consults, collaborating with nurses and social work, organizing post-discharge care, and communicating with patients and their families. Subinterns also attend weekly small group learning sessions during which they discuss, diagnose, and treat patients using example cases. By the end of the VA General Medicine Subinternship, subinterns will be able to independently do the following: synthesize and succinctly present a patient’s history, exam, diagnostic data, assessment, and plan of care; support differential diagnoses and proposed care plans with clinical reasoning and evidence; demonstrate how to correctly order diagnostic tests and medications that further patient care; analyze complex patient cases during interactive small group learning sessions; integrate feedback from patients, residents, and attending physicians; and formulate a plan for ongoing improvement as a clinician.

M25 Medicine 810 Geriatric Medicine
The primary goal of this rotation is for students to gain proficiency in the principles of geriatric evaluation and management, including the medical, psychological, social, and functional assessment of older adults. Students are expected to participate in the evaluation of three to five patients per week, in a variety of settings including the outpatient Geriatric Assessment Clinic, inpatient Geriatric Consult service, outpatient and home-based Primary Care, and the Rehabilitation Institute of St. Louis (TRISL; optional). Students will also have the opportunity to participate in hospice and home care visits, interdisciplinary team meetings, and observe an assessment at the WU Alzheimer’s Disease Research Center. Students are expected to attend weekly conferences while on the rotation. The day normally begins at 8:30 a.m. and is usually finished by 5:30 p.m. There is no night or weekend call. Time is provided to read the detailed syllabus/bibliography. Many clinical activities are off-site from the Medical Campus; students will be required to coordinate transportation to and from such sites. Students will be expected to give an oral presentation on a topic of their choice once during the rotation.

M25 Medicine 811A Clinical Internal Medicine — Hospitalist
This course allows the student to work one-on-one with hospitalist physicians on a patient care team. Daily responsibilities include admission history and physicals, daily notes, and discharge summaries on assigned patients. Students will also have the opportunity to perform indicated procedures on patients on this service. Students are encouraged to participate in Department of Medicine conferences.

M25 Medicine 811B Hospitalist Subinternship
This course allows the student to work one-on-one with hospitalist physicians on a patient care team. The subintern acts as the intern under the direct supervision of the attending physician. Daily responsibilities include admission history and physicals, daily notes and discharge summaries on assigned patients. They also will have the opportunity to perform indicated procedures on patients on this service. Students are encouraged to participate in Department of Medicine conferences.

M25 Medicine 811A Clinical Internal Medicine — Hospitalist
This course allows the student to work one-on-one with hospitalist physicians on a patient care team. Daily responsibilities include admission history and physicals, daily notes, and discharge summaries on assigned patients. Students will also have the opportunity to perform indicated procedures on patients on this service. Students are encouraged to participate in Department of Medicine conferences.

M25 Medicine 821 Inpatient Cardiology
Students will participate as members of the Barnes-Jewish Cardiology at Washington University Consultative Team. They will be part of a team composed of faculty members, fellows, residents, and nurse practitioners that sees a large population of cardiac patients and follows them through all aspects of their in-hospital care. Emphasis will be placed on physical examination and the interpretation of modern cardiac diagnostic tests including electrocardiograms, echocardiograms and coronary angiograms and their role in clinical decision making.

M25 Medicine 822 Cardiology Subinternship
The structure and functioning of the Cardiology subinternship is very similar to the General Medicine Subinternship (M25 801 and M25 807). The basic purpose is to develop expertise in the care of hospitalized patients in a well-supervised teaching environment. The majority of patients admitted to the service will have a cardiology diagnosis as the main reason for admission. Some general medical problems will also be seen. All attendings on the service are cardiology subspecialists. Cardiology fellows act as the chief resident for the service on a monthly basis. Subinterns act as their patients’ interns under the supervision of residents and attending physicians. Subinterns have the same on-call and admitting schedules as the interns on their teams and are assigned up to two new patients on each admitting day. Subinterns are not required to spend call nights in the hospital. Except in emergencies, subinterns are the first individuals to evaluate patients admitted to medical service teams. A diagnostic and therapeutic approach to the patient is planned in consultation with the resident. Subinterns assume primary responsibility for the daily care of their patients, under the supervision of resident and attending physicians. This includes evaluation on daily rounds, scheduling and obtaining results of diagnostic studies, planning therapy, making arrangements for care after discharge and communicating with patients and their families. Subinterns attend the same conferences as the internal medicine house staff. There are also several conferences specific to the cardiology service.

M25 Medicine 823 Clinical Cardiology — VA Hospital
The major purpose of this elective in clinical cardiology at the John Cochran VA Hospital is to improve evaluation and management skills for diagnosis and treatment of important cardiovascular conditions such as coronary artery disease including acute myocardial infarction, congestive heart failure, hypertension, and valvular heart disease. The rotation is designed to be flexible enough to accommodate a wide variety of course objectives but includes the opportunity to participate in 1-3 outpatient clinics per week; 1-4 weeks of inpatient intensive care, telemetry, or cardiology consultation rounds; and ECG, stress testing, nuclear imaging, or echocardiographic reading sessions, cardiac catheterization and electrophysiology procedures. The emphasis will be on improvement of the ability to diagnose and treat cardiovascular disease on the basis...
of information obtained from a thorough history and physical examination that is integrated with data from appropriate highly targeted laboratory studies in a manner that optimizes patient outcome and minimizes risk and costs.

M25 Medicine 825 Cardiac Arrhythmias and Electrophysiology
This elective provides the student with exposure and teaching in the diagnosis and treatment of complex cardiac rhythm disturbances. Specifically, the student is expected to evaluate patients referred for evaluation and treatment of complex or life-threatening rhythm disturbances, unexplained syncope or sudden cardiac death. Rounds are made daily on hospitalized patients, and students are welcome to observe electrophysiology studies or implantation of pacemakers and defibrillators. This elective also provides an intensive opportunity to learn clinical electrocardiography and the systematic use of anti-arrhythmic drugs. Finally, since patients with chronic, complex rhythm disturbances frequently have organic heart disease, a broad-based exposure to general cardiology is also part of this elective.

M25 Medicine 827 Heart Failure/Cardiac Transplantation
This rotation is intended to provide trainees with a comprehensive experience managing patients with advanced heart failure. In addition to daily inpatient rounds, trainees are invited to attend both heart failure and transplant clinics. Further, the curriculum is supplemented by a syllabus that contains the critical literature pertinent to this patient population. The trainees will also have experience with the evaluation of patients for operative heart failure therapies and will have the opportunity to observe these surgical procedures.

M25 Medicine 830 Dermatology
The aim of this elective is to provide a guide for students so they are able to appreciate dermatology within the broader perspectives of medicine and biology. Emphasis will be placed on the dermatologic variations encountered in a normal physical examination of the skin, the identification of common skin diseases, dermatologic clues to systemic disease, as well as those dermatologic conditions that are life-threatening. The student will participate in outpatient care in the Barnes-Jewish Hospital and affiliated clinics. Students will attend all clinical teaching rounds and conferences in addition to the basic science and cutaneous histopathology conferences.

M25 Medicine 831 Pediatric Dermatology
This clinical rotation will be available to students interested in dermatology, pediatrics or both. Students will follow the dermatology rotation (M25 830) with an emphasis on pediatric dermatology by attending pediatric dermatology clinics, seeing consults, etc.

M25 Medicine 834 Clinical Mentoring
This elective is designed to develop the teaching and mentoring skills of our fourth-year medical students through structured hospital sessions with first-year medical students. The primary format of the elective is observation of two first-year students during hospital sessions that span from September-April. During these hospital sessions the first-years perform the H&P, and the fourth-year mentors observe and offer constructive feedback. Each session will have an accompanying H&P written by the first-year student, which is to be thoroughly reviewed and critiqued by the fourth-year mentor. Additional practice sessions are optional and can be individually arranged between teams where the fourth-year mentor can assist the first-year student on personalized skills that are identified by their individualized learning goals. A small number (2-3 per week) of in-person sessions will occur with clinical faculty instructors to review teaching methods, assist in giving feedback, and to help the fourth-year mentor to acquire skills necessary for supervision of medical students during internship/residency. The schedule is very flexible, and there are no active clinical responsibilities during December/January to allow time off for interviews.

M25 Medicine 834A SNHC Clinical Mentoring
This elective is designed to develop the teaching and mentoring skills of our fourth-year medical students through clinic sessions at the Saturday Neighborhood Clinic. In addition, the elective will develop the ability of our fourth-year students to productively engage and present complex social issues through the development of a one-hour lecture. During three sessions of mentoring, fourth-year students will pair with a pre-clinical (first- or second-year) students and supervise them throughout the clinic day. The fourth-year student will supervise and assist as the pre-clinical student completes the patient history and physical, presents the exam results to the physician, and writes the visit note for multiple patients. The pre-clinical student will complete one patient note without assistance, which the fourth-year student will thoroughly review, edit, and return to the pre-clinical student, along with constructive feedback regarding the pre-clinical’s general performance. The attending present at the Saturday Neighborhood Clinic will verify that the fourth-year mentor fulfilled the specified mentoring requirements. Additional practice sessions to review exam skills, note writing, and communication are optional and can be individually arranged between teams so that the fourth-year mentor can assist the first-year student on personalized skills. There will also be a reading presentation required. The fourth-year students taking this elective will break into groups of three or four members. Each group will be responsible for presenting a one-hour presentation on a topic related to the social determinants of health. There should be a case component to the presentation as well as a broader discussion. The presentations will be based on thorough research and should engage the broader context of the topic, including the epidemiology, social and health ramifications, economics, interventions, and so on. The presentation should include descriptions of potential solutions and innovation, where applicable.

M25 Medicine 836 Clinical Gastroenterology and Hepatology
The GI Hepatology elective is integrated into a very active inpatient and endoscopy service at Barnes-Jewish Hospital. Students will participate in the evaluation of inpatients with a spectrum of gut and liver disorders, make patient rounds with the faculty and fellows, and have responsibility for patients on whom consultations have been requested. In addition, they will observe general endoscopic techniques and participate in GI conferences.

M25 Medicine 836A Treatment of Patients with Inflammatory Bowel Disease
This elective will allow students to spend an intensive period of time learning about all aspects of the care of patients with IBD (surgical, endoscopic, and medical management). Although a predetermined schedule has been developed, it can be modified based on the student’s interest. Alternative options include: inpatient IBD care (Barnes-Jewish Hospital and Barnes West County); wound clinic / stoma care; specialized endoscopy (chromoendoscopy, ERCP); IBD / colorectal surgery; pathology.
M25 Medicine 838 Medicine Consult Service

The focus of the Medicine Consult Service elective is the evaluation and management of medically complex patients admitted to the hospital on non-medicine services. The issues involved with perioperative management are particularly stressed. The student will function as a member of the consult service team. Duties will include performing initial consultations and follow-up care under the supervision of a Hospital Medicine attending and a senior medical resident. Attendance at Department of Medicine and division conferences is encouraged.

M25 Medicine 844 Hematology and Hemostasis

Activities include work-up of patients at Barnes-Jewish Hospital under the supervision of the hematology fellow and faculty; attendance at daily clinical rounds for 1-1.5 hours per day. These are staffed by a senior faculty in the Division of Hematology. In addition to evaluation of patients with hematologic disorders, the student will gain additional analytic skills including: 1. Interpret and integrate laboratory data in the diagnosis of anemia and pancytopenia; 2. Review peripheral blood and bone marrow morphology; 3. Analyze laboratory data for the diagnosis of thrombophilia and bleeding; 4. Discern the principles of blood banking and pheresis. The students will have the opportunity to follow patients with sickle cell disease and understand the treatment of this disorder. The student is expected to attend and participate in the weekly hematology conference.

M25 Medicine 847 Bone and Mineral Diseases

The course is designed to acquaint the student with the clinical, radiological and pathological manifestations and treatment of disorders of bone and mineral metabolism, including osteoporosis, Paget's disease of bone, hyperparathyroidism, osteomalacia, and more rare disorders of bone development and homeostasis. The student will rotate through clinics of the Division of Bone and Mineral Diseases, and see patients at Barnes-Jewish Hospital, Barnes-Jewish West County Hospital and Shriners Hospital for Children. Acquired and heritable bone diseases will be studied in the context of derangements of mineral homeostasis with emphasis on vitamin D and peptide hormone metabolism and skeletal formation and remodeling. The role of non-invasive methods for measuring bone mass in the diagnosis and management of skeletal diseases also will be stressed. Faculty and medical students will present interesting cases for discussion or the students can present a pertinent topic related to bone metabolism they have researched during their rotation.

M25 Medicine 849 Sun Protection Outreach Teaching by Students (SPOTS)

Sessions are typically taught by students in pairs. Learning objectives are as follows: (1) Demonstrate knowledge of basic principles of skin cancer, including how to detect skin cancer and how to decrease risk with photoprotection. (2) Effectively communicate this knowledge to children/adolescents.

M25 Medicine 853 Bone and Joint Infectious Diseases

Study of infectious diseases of the bones and joints, including infections in both native and prosthetic joints. The elective is designed to teach students the fundamentals of evaluating clinical orthopedic infections and formulating plans for workup and therapy. Students see consultations in infectious diseases in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with the infectious diseases attending and nurse practitioner, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics and antifungal agents. The role of surgical and medical management is discussed, and the students will interact with surgical staff in understanding the risks and outcomes of these common infections. Two weeks of General Inpatient Infectious Disease are a prerequisite to this course.

M25 Medicine 854 Transplant Infectious Diseases

Study of infectious diseases in patients who have had bone marrow or solid organ transplants, or who have a hematologic malignancy. The elective is designed to teach students the fundamentals of evaluating clinical infections in these complex and interesting patients and formulating plans for workup and therapy. Students see consultations in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with infectious disease fellows, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics, antifungal and antiviral agents in this highly immune suppressed population. A wide distribution of infectious diseases is covered including management of neutropenic fever, invasive fungal infections in the transplant population, acute and chronic infections, infection prophylaxis and monitoring and interactions between immunosuppressive agents and antibiotics.

M25 Medicine 858 Ambulatory Infectious Diseases

The elective is designed to teach students the fundamentals of evaluating clinical infections in the outpatient setting. Students see patients under the supervision of a faculty member. Students will participate in the care of HIV-infected or otherwise immunosuppressed patients as well as general infectious disease and travel patients. The clinic is the primary provider for HIV-infected patients, and students will learn the pathogenesis of HIV, become familiar with most antiretroviral medications, and have the opportunity to learn about opportunistic infections and their prophylaxis. They will also have the opportunity to see patients with bone and joint infections, endovascular infections, endemic and opportunistic mycoses, mycobacterial infections, sexually transmitted diseases, and many other infections. Patients seen will have a wide range of acute and chronic infections, and will include indigent and insured patients across a wide range of ages. The students will play an important role...
in the management of these patients and will present their assessments and plans to the supervising attending. They are expected to write clinic notes, read the literature about their patients, and participate in clinical conferences.

**M25 Medicine 859 General Inpatient Infectious Diseases**
This elective allows students to participate in the management of patients with a wide variety of infections in the inpatient setting. The elective is designed to teach students the fundamentals of evaluating clinical problems in infection and formulating plans for diagnosis and management. Students see consultations in infectious diseases in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with medical residents and infectious disease fellows, follow their own patients, and play an important role in their management. They are expected to read the literature about their patients and to participate in clinical conferences. They attend teaching rounds, conferences, and lectures in infectious diseases. They see a wide variety of infectious diseases, including community-acquired acute and chronic infections, surgical infections, opportunistic infections in HIV-infected patients and other immunocompromised hosts, and hospital-acquired infections. They also learn basic infection control practices as well as the appropriate use of antibiotics and antifungal and antiviral agents.

**M25 Medicine 861 Oncology — Inpatient Consult Service**
Medical Oncology is a complex subspecialty that is undergoing a rapid evolution as a result of new systemic treatment approaches that stem from biological insights into the nature of cancer. During the course of the elective, medical students will be able to interact with attending physicians and patients for bedside teaching and attend tumor boards and lectures focused on the care of patients with solid tumors. At the end of the rotation, the students will appreciate the principles of our approach to cancer patients and should have gained insights into the evaluation and management of patients with newly diagnosed malignancies.

The role of surgery, radiation, and systemic treatment will also be an important theme, as well as the conduct of clinical research in this patient population. Students will also learn to care for hospitalized patients suffering from complications from their cancer or from toxicities due to treatments. Oncologic emergencies will be covered. Issues such as palliative care treatment options and end-of-life decision making will be explored as well.

**M25 Medicine 867 Medical Intensive Care**
The Medical Intensive Care Unit Elective is designed to introduce senior medical students to cognitive and procedural aspects of critical care medicine. Students will be expected to learn the basic pathophysiology and treatment approaches to respiratory failure, shock states and metabolic derangements. Participation in procedures will be encouraged as available. Dynamics of difficult conversations with patients and family members will also be modeled and discussed. Clinical responsibilities will occur as a part of a call team and students will be expected to participate in admissions and daily follow-up on the cycle of their assigned call team. Teaching will occur via didactic lectures on weekdays and formal patient discussions on rounds.

**M25 Medicine 869 Palliative Medicine**
The Palliative Medicine elective will focus on the care of patients with life-threatening or debilitating illness throughout the course of their care. Skills in symptom management, communication, and interdisciplinary team-based care will be the focus. Students will spend the majority of their time on the BJH Palliative Care Service. Based on the individual student’s interest, there may also be opportunities to work with the BJH Hospice Team and the St. Louis Children’s Hospital Palliative Care Service. Students wishing to work with either team should contact the Course Director and Elective Contact as well as the instructors of the appropriate team, with as much advance notice as possible, as trainee spots are very limited for both. While in the hospital, students will be responsible for seeing patients upon initial assessment and delivering follow-up care with the team. Patients will be seen for both end-of-life care as well as symptom management. Students will learn to assess and treat refractory symptoms and to participate in complicated advanced care planning. Students will attend interdisciplinary team meetings, and they may participate in conversations about goals of care and coping with bad news. They may also make home visits with hospice care providers, if desired. Emphasis will be placed on observing and understanding the psychosocial and spiritual needs of the patients as well as the impact of the burden on caregivers. In addition, students will be expected to lead biweekly presentations/group discussions on selected aspects of Palliative Medicine with the BJH Palliative Care team.

**M25 Medicine 870 Endocrinology, Diabetes, and Metabolism**
In general, the four-week rotation will be divided into two weeks of general endocrinology and two weeks of diabetes. Students taking this elective will perform consultations with fellows and faculty on the inpatient services at Barnes-Jewish Hospital, and they will also see patients with endocrine and metabolic diseases in the Outpatient Consultation. They will present these cases daily on teaching rounds. They will also participate in case conferences and seminars on a weekly basis. Extensive interaction with patients with diabetes and a diabetes education program are included, as is involvement with patients with thyroid, pituitary, adrenal, gonad, metabolic bone disease, and lipid disorders. Ample opportunities will be provided for discussions of patient problems with the members of the division. A variety of outpatient clinics are offered in the division; interested students should speak with the fellows and faculty members to customize the learning experience to match their career goals. At the end of the rotation, it is expected that students will have the ability to initiate the inpatient and outpatient management of diabetes, including insulin dosing and glucose monitoring, and evaluate and treat a variety of endocrine disorders, including but not limited to thyroid, pituitary, and adrenal disease. Students will learn to perform effective inpatient and outpatient consultations.

**M25 Medicine 871 Oncology — Outpatient**
Students will gain experience in the initial treatment of newly-diagnosed malignancies and the outpatient management of oncology patients. Participation in multidisciplinary tumor conferences will stress a combined-modality approach to management, incorporating chemotherapy, radiation therapy, and surgery. Students will see patients with a variety of malignancies, including lymphoma, myeloma, and tumors of the lung, breast, and colon. Management of hypercalcemia and other paraneoplastic syndromes, as well as cancer pain management, will be covered. Students will have the opportunity to see how most oncologists spend 90 percent of their workday. They will observe different styles that oncologists use when presenting
news about prognosis, treatment options, and other information to patients while they also learn about the molecular basis for cancer, the mechanisms of action for our therapies (particularly the new agents which target specific molecular abnormalities), and the key studies that justify the use of therapies (e.g., randomized studies showing that after surgery, chemotherapy will reduce the risk of recurrence from a particular cancer with a particular regimen). By spending time with clinicians, students will learn how to identify hereditary syndromes, use drugs for symptom relief, and also learn how radiographic and laboratory tests allow oncologists to care for patients.

M25 Medicine 877 Intensive ECG Interpretation
During this two-week elective, students will read 20 to 25 ECGs obtained from the Barnes-Jewish Cardiac Diagnostic Laboratory, with an overread by an experienced electrocardiographer. There will also be didactic sessions covering infarction, ventricular hypertrophy, heart block, arrhythmias, and aberrant conduction.

M25 Medicine 879 Pulmonary Clinic for the Underserved
Clinical setting: Outpatient clinic dedicated to providing pulmonary specialty care to patients who are predominantly uninsured or who rely upon public assistance such as Medicaid. Student role: Students independently interview and examine patients and present findings to the attending; tests and imaging are reviewed, and provider and attending develop plan. Common problems/diseases: Asthma, COPD, sarcoidosis, lung cancer, and obstructive sleep apnea are commonly seen. Also, patients are referred for evaluation of abnormal x-rays and for symptoms such as dyspnea. Primary learning objectives: to understand and practice important history and exam skills in pulmonary medicine: symptoms, smoking history, work and environmental exposures, and important pulmonary physical exam findings; to understand the basics of pulmonary function tests, chest imaging, and methods for tissue sampling; and to understand the basis of treatment of common pulmonary disorders. Conferences: There is no conference associated with this clinic, but students may attend the usual Thursday morning Medicine Grand Rounds at 8:00 a.m. and the Pulmonary Grand Rounds at 11:00 a.m. if the subject matter is appropriate.

M25 Medicine 880 Pulmonary Medicine — Barnes-Jewish Hospital
Students will acquire skills in the evaluation and management of patients with pulmonary diseases and in the interpretation of pulmonary function tests. They will gain experience in outpatient Lung Center and attend regular pulmonary and critical care medicine conferences.

M25 Medicine 884 Bone Marrow Transplantation and Stem Cell Biology
Intense four-week clinical rotation exposing interested fourth-year medical students to the clinical world of bone marrow transplantation and to the basic science of hematopoiesis, leukemia, stem cell biology, and gene and cellular therapy, including chimeric antigen receptor (CAR) T-cell therapies. Students will be primarily responsible for the care of autologous and allogeneic BMT recipients and those patients being treated for a variety of hematologic malignancies such as AML, ALL, multiple myeloma, and non-Hodgkin's lymphoma. In addition, they will be exposed to methods of stem cell harvest, cryopreservation, and immunophenotyping. This rotation plans to provide motivated students with an ideal mix of clinical medicine and basic science.

M25 Medicine 887 Clinical Cardiovascular Medicine

M25 Medicine 890 Clinical Nephrology
Students rotate through inpatient and outpatient experiences to gain exposure to all facets of nephrology. They will spend time the majority of their time on an inpatient consult service, gaining exposure to acute and chronic renal failure, glomerulonephritis, and electrolyte disorders. During this time, they will serve as a fully integrated member of the consult team, evaluating underlying causes of kidney disease, performing diagnostic procedures, formulating management plans, and engaging in decision-making discussions with primary services and families. In addition, students will have the opportunity to experience ICU nephrology, transplant nephrology, the various CKD clinics, and all modalities of dialysis, including in-center, home, and peritoneal dialysis.

M25 Medicine 890A Kidney Transplant
Students participating in this elective will gain exposure to end-stage renal disease and the treatment options, examine kidney transplantation as the most valuable option, learn about immunosuppression, and gain exposure to infectious diseases like CMV, BK, and adenovirus, which are commonly seen in patients who have had a kidney transplant (and not often seen otherwise).

M25 Medicine 893 Adult Allergy and Clinical Immunology
Students will participate in the outpatient Allergy Clinics located in Barnes-Jewish Hospital Center for Advanced Medicine, Barnes-Jewish West County, and Center for Advanced Medicine South County. Students will participate in allergy skin testing, pulmonary function testing, and drug desensitization. They will have the opportunity to see patients with allergic rhinitis, asthma, hives, food allergy, immunodeficiency, eosinophilic esophagitis, hereditary angioedema, mastocytosis, contact allergic dermatitis, eczema, and more. They can attend allergy conferences on Thursday morning. Students have the option to follow a fellow and see inpatient consults at Barnes-Jewish Hospital.

M25 Medicine 900 Research Elective — Internal Medicine
Research opportunities may be available. If interested, please contact the Department of Internal Medicine.

M27 Emergency Medicine

M27 EMED 801 Emergency Medicine Subinternship
This rotation offers practical experience in the evaluation and management of acutely sick and injured patients. Students will function as subinterns, initially evaluating their assigned patients and then developing a plan for further diagnostic studies and therapy. They will report to a senior-level resident or an attending physician. The student can expect the opportunity to perform a wide variety of procedural skills, such as suturing, splinting,
M27 EMED 810 Medical Toxicology
This rotation offers practical experience in the evaluation and management of the acutely ill, poisoned, or intoxicated patient. Students will function as subinterns and either report to the senior resident, the fellow, or directly to the toxicology attending. Students will gain familiarity with and experience in evaluating and treating patients who have intentionally and unintentionally overdosed on medications or illicit drugs; those who have substance use disorders; those who have been envenomated (e.g., by spiders, snakes, or other reptiles); and those who have been exposed to toxic substances or chemicals. Students will also gain experience in administering antidotes and learning to properly decontaminate someone after an ingestion or exposure. There are no overnight or weekend shifts. While not required, students are welcome to come in during their off hours to see new consults and to enhance their experience and learning. Daily activities start in the morning and are generally concluded by the early afternoon. A core group of lectures will be provided. The students will also be assigned small projects during their rotation that will enhance their experience, particularly in environmental and occupational toxicology. Opportunities to increase their experience with occupational toxicology and addiction medicine also exist during this rotation; students will be able to rotate in the outpatient toxicology and addiction medicine clinic. Students will also have the opportunity to go to the Missouri Poison Center. Students desiring a letter of recommendation from one of the toxicology attendings (who are also emergency medicine attendings) or who are interested in emergency medicine or medical toxicology should take this elective. In addition, students considering other specialties such as pediatrics or internal medicine should consider this rotation, because they will be responsible for evaluating patients with these conditions as part of their inpatient or outpatient practice. Please be advised that there is a limit of days off while on this rotation during interview season; otherwise, students should arrange to take the elective at a different time during the year. Days off should be requested from the course coordinator at least two weeks prior to the beginning of the rotation for scheduling purposes.

M27 EMED 820 Emergency Ultrasound
Point-of-care ultrasound has become an integral diagnostic and procedural tool for nearly every clinical specialty. Ultrasound examination at the bedside is noninvasive, painless, and repeatable, unlike many other common diagnostic tests. However, like all procedures, developing ultrasound skills takes a significant amount of practice and experience. This rotation will focus on clinical ultrasound image acquisition and interpretation at the bedside. Students will participate in the performance of bedside ultrasound examinations of patients in the emergency department. Common applications of emergency ultrasound include the FAST exam; pelvic ultrasound; abdominal aortic aneurysm; vascular access; renal, ocular, or cardiac ultrasound; and deep vein thrombosis. Students will be involved in direct patient care during this rotation as part of the ultrasound team in the emergency department. In general, the student will be in the emergency department during weekdays to perform these exams. In addition, the student will meet with the elective instructor approximately once per week to review images or for direct hands-on instruction. At the end of the rotation, the student should be able to obtain images for basic point-of-care ultrasound examinations and to interpret those images for diagnostic purposes. Students may also have the opportunity to practice ultrasound-guided procedures during the rotation.