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
Phone: 314-362-8925

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.

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.

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.

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 colonic 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.
Gerome Escota, MD  
6604 Wohl Hospital  
Phone: 314-362-8050  
esgotag@wustl.edu (escotag@wustl.edu)

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  
Phone: 314-362-2690

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  
Phone: 314-362-8070  
houses@wustl.edu

Lisa Hayes  
Phone: 314-362-4362  
hayesi@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 organellar 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
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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
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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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kponder@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
pstein@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  
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Professor of Medicine  
Associate Chair for Clinical Programs

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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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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 (Pending Dean’s Approval) (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, MD, PHD, PHD1
Associate Professor of Medicine (primary appointment)

Associate Professor of Cell Biology and Physiology
MD Cornell University 1999
PHD Cornell University 1998
PHD1 Cornell University 1998
BA University of Rhode Island 1991
BS University of Rhode Island 1991

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)
BS Davidson College 1970
MD University of North Carolina 1974

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)
BS Georgetown University 1986
MD Medical College of Virginia 1991
MPH University of South Florida 2009

Joseph Branchock, 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, PHD, BS1
Instructor in Medicine (primary appointment)
BS University of Paris 1996
MS University of Paris 1997
PHD University of Paris 2001
BS1 University of Paris 1995

Thomas J. Brett, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Biochemistry and Molecular Biophysics
Associate Professor of Cell Biology and Physiology
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 (Pending Dean's Approval) (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
PHD Washington Univ in St. Louis 2009
BA Sweet Briar College 2003

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

Angela L Brown, MD
Associate 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, MD, PhD
Instructor in Medicine (primary appointment)
MD Boston University 2012
PHD Boston University 2012

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

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

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)
MD Washington Univ in St. Louis 1977
BS Princeton University 1973

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

Benjamin Paul Buettner, MD
Instructor in Medicine (Pending Dean's Approval) (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)
BA Saint Louis University 1974
MD University of Missouri 1983

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

Melvin J Butler
Instructor in Clinical Medicine (primary appointment)

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

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)
BA Washington Univ in St. Louis 1973
MD Washington Univ in St. Louis 1977

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

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

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 Medical University 2003
BE Harbin Normal University 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

Scott Carrizales, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
MD UniformedServUofHealthSciences 1996
BA University of Texas Austin 1992

Kenneth R Carson, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Surgery (Public Health Sciences)
MD University of Southern Calif 2000
BS University of Southern Calif 1995

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

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

Mario Castro, MD, M PH
Professor of Medicine (primary appointment)
Alan A and Edith L Wolff Distinguished Professor
Professor of Pediatrics
Professor of Radiology
BA University of MO Kansas City 1988
MD University of Missouri 1988
MPH Saint Louis University 1998

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

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PHD AIX-MARSEILLE UNIVERSITY 2013
BS University of Westminster 2009

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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)
MD Northwestern University 2013
BA Northwestern University 2009

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

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

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

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

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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

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

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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

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PHD Johns Hopkins University Medic 1999
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BS University of Michigan 2003
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Associate Professor of Cell Biology and Physiology
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BS Fudan University 1991

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UNKNOWN School Not Listed 1983
MD Nanjing Medical University 1983
MS Nanjing Medical University 1988

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

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

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

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

Cynthia Cherfane, MD
Assistant Professor of Medicine (primary appointment)
MD St. Joseph University, Beirut 2011

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
BS Washington Univ in St. Louis 2007
MD University of California 2012

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

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

Matthew Christopher, PHD, MD
Assistant Professor of Medicine (primary appointment)
PHD Washington Univ in St. Louis 2010
BA Saint Louis University 1993
MD 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, MS, PHD
Assistant Professor of Medicine (primary appointment)
MS Universita de Modena e Reggio 2005
PHD University of Pittsburgh 2011

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

Geoffrey Cislo, MD
Associate 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
MD University of Siena 1980
BS University of Siena 1980

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

William Edward Clutter, MD

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

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)
MD University of MO Kansas City 1991
BA University of MO Kansas City 1990

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

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

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

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

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

Matthew Cooper, PHD
Assistant Professor of Medicine (primary appointment)
BS University of Surrey 2004
PHD University of Surrey 2008
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>School Years</th>
</tr>
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<tbody>
<tr>
<td>Lynn Anne Cornelius, MD</td>
<td>Winfred A and Emma R Showman Professor of Dermatology in Medicine (primary appointment)</td>
<td>BN University of Delaware 1977, MD University of Missouri 1984</td>
</tr>
<tr>
<td>Dominique Leah Cosco, MD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>MD Tulane University 2005</td>
</tr>
<tr>
<td>Natalie Danielle Cosgrove, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Temple University 2011</td>
</tr>
<tr>
<td>John Bernard Costello, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Saint Louis University 1977, BA Saint Louis University 1974</td>
</tr>
<tr>
<td>Carrie Christine Coughlin, MD</td>
<td>Assistant Professor of Medicine (Dermatology) (primary appointment)</td>
<td>BA Yale University 2005, MD Washington Univ in St. Louis 2010</td>
</tr>
<tr>
<td>Martha Laurin Council, MD</td>
<td>Associate Professor of Medicine (Dermatology) (primary appointment)</td>
<td>BS Louisiana St University 2000, MD Washington Univ in St. Louis 2004</td>
</tr>
<tr>
<td>Daniel W Coyne, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BA Saint Louis University 1979, MD Case Western Reserve Univ 1983</td>
</tr>
<tr>
<td>Clarissa S. Craft, PhD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>BS Beloit College 2003, PHD Northwestern University 2007</td>
</tr>
<tr>
<td>Johnetta M Craig, MBA, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MBA University of Pennsylvania 1994, BS University of Missouri 1980, MD University of Iowa 1986</td>
</tr>
<tr>
<td>John Jeffrey Cras, MD, MS</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Georgetown University 2003, BS Loyola College 1994, MS Georgetown University 1998</td>
</tr>
<tr>
<td>Charles Crecelius, MD, PHD</td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
<td>BA Carleton University 1976, MD Saint Louis University 1984</td>
</tr>
<tr>
<td>Philip E Cryer, MD</td>
<td>Professor Emeritus of Medicine (primary appointment)</td>
<td>MD Northwestern University Med 1965, BA Northwestern University 1962</td>
</tr>
<tr>
<td>Phillip S. Cuculich, MD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>MD Vanderbilt University 2001</td>
</tr>
<tr>
<td>Lenise Andrea Cummings-Vaughn, MD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>BS Williams College 1995, MS San Francisco St University 1998, MD Saint Louis University 2005</td>
</tr>
<tr>
<td>Robert B Cusworth, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD University of Rochester 1974</td>
</tr>
<tr>
<td>Stacy Zhao Dai, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>BA Brandeis University 2009, MD Washington Univ in St. Louis 2013</td>
</tr>
<tr>
<td>Ann Marie Dale, PHD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>Associate Professor of Occupational Therapy, BS University of MO Columbia 1983</td>
</tr>
</tbody>
</table>
PHD Saint Louis University 2009

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

Ha Xuan Dang, PHD
Instructor in Medicine (primary appointment)
BS HANOI U OF SCIENCE AND TECH 2003
PHD Virginia Tech 2014

Erik D. Daniels, MD
Instructor in Clinical Medicine (primary appointment)
MD Howard University 1989
BS Howard University 1985

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)
BA University of Pennsylvania 1974
MD Baylor University 1978

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

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)
MA Harvard University 2018
BA University of Texas Austin 2008
MD Baylor College of Medicine 2013

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

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
MD University of Puerto Rico 1981
BS University of Puerto Rico 1977

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

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

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)
MD Loyola University 1995
BA Bowdoin College 1986

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)
BS University of MO Columbia 1998
MD University of MO Columbia 2003

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)
BS Creighton University 2000
MD Creighton University 2004

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 Williamette University 1999

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

Sunny Desai, MS, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
MS School Not Listed 1991
UNKNOWN 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)
BS Illinois Institute of Technol 2008
MD Rosalind Franklin University 2013

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

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)
BA University of Kansas 1982
PHD Washington Univ in St. Louis 1987
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

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
BA Williams College 1973
MD University of Rochester 1980

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

Martin A Docherty, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Saint Louis University 1983
BS Edinburgh University 1978

Irl Joseph Don, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1972
BA Washington Univ in St. Louis 1969

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)
BS Southern Illinois University 1993
PHD University of Illinois 1999

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

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

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

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

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
BS Auburn University 1998

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

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Assistant Professor of Medicine (primary appointment)
MD Univ Texas Health Science Ctr 2009
BS University of Miami 2005

E

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

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Professor of Medicine (primary appointment)
BA University of Missouri 1986
MD University of Missouri 1990

Royal J Eaton, MD
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MD University of Missouri 1964
BA University of Missouri 1960

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Associate Professor of Medicine (primary appointment)
PHD Columbia University 2003

Stilianos Efstratiadis
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Russell E Eggebrecht, MD
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BS University of Illinois 1967
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MD Tehran University 1965

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

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

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

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Instructor in Clinical Medicine (primary appointment)
MS School Not Listed 1986
UNKNOWN School Not Listed 1982

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

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PHD Mass Inst of Technology (MIT) 2004
MD Washington Univ in St. Louis 2008

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

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

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Assistant Professor of Medicine (primary appointment)
BS University of MO Columbia 1996
MD University of MO Columbia 2000

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

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Assistant Professor of Medicine (primary appointment)
BS University of the Philippines 1999
MD University of the Philippines 2004

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Instructor in Medicine (primary appointment)

MD Washington Univ in St. Louis 2015

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

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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
M PH University of Washington 1993
MD Washington Univ in St. Louis 1986

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Instructor in Clinical Medicine (primary appointment)
MD Brown University 1977
BA Brown University 1973

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Professor of Medicine (primary appointment)
BS University of Illinois 1985
MD Northwestern University 1989

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

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

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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 St University 2014

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

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Instructor in Medicine (primary appointment)
PHD University of Parma 2014
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Instructor in Clinical Medicine (primary appointment)  
BS University of Arkansas 1973  
MD University of Arkansas 2004  

Mark A Fiala, MSW  
Instructor in Medicine (primary appointment)  
BS Southeast Missouri St Univers 2006  
MSW Washington Univ 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)  
MS University of Illinois 1996  
PHD University of Illinois 2000  
BS University of Illinois 1994  

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

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

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

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Instructor in Emergency Medicine in Medicine (primary appointment)  
BS Georgetown University 1989  
MD Saint Louis University 1995  

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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)  
MD Saint Louis University 1985  
BA Cornell University 1981  

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  

Avegail Gascon Flores, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of Pittsburgh 2007  

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

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

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Instructor in Clinical Medicine (primary appointment)  
MD University of MO Columbia 1984  

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PHD University of MO St Louis 2013  
MSN Saint Louis University 2004  
BN Webster University 2003  

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Head of the Department of Internal Medicine  
MD University of MO Columbia 1983  
BS William Woods College 1978  

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Assistant Professor of Medicine (primary appointment)  
MD University of MO Columbia 2002  
BS Truman State University 1998  

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Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1993  
BA Washington Univ in St. Louis 1984  

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

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Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD University of Cincinnati 2002  

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

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

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

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

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BS Washington Univ in St. Louis 1955
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MBA University of MO St Louis 1998

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MD University of MO Columbia 2003

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BS Univ of Wisconsin Oshkosh 1979
PHD Iowa State University 1985

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BS University of Illinois 1985
MD University of Iowa 1989
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Professor of Medicine (primary appointment)
MD University of Maryland 1977
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Professor of Molecular Microbiology
BA Harvard University 1978
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PHD Washington Univ in St. Louis 1985
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Professor of Biochemistry and Molecular Biophysics
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MD University of South Florida 2003
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BS University of Puerto Rico 2004
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BS University of Nebraska 1970
MD Duke University 1974
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BA Lehigh University 1979
MD Pennsylvania State University 1983
Mary Jo Gorman, MD, MBA
Instructor in Clinical Medicine (primary appointment)
MD Southern Illinois University 1984
BA Saint Louis University 1981
MBA Washington Univ in St. Louis 1996
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MD University of Madras 1986
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MD School Not Listed 1970
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Professor of Biochemistry in Medicine (Dermatology) (primary appointment)
Professor of Developmental Biology
BS Iowa State University 1971
PHD Univ of Wisconsin Madison 1975
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Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
BS University of MO St Louis 1971
MD University of MO Columbia 1975
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Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MS Ohio State University 2014
BS Ohio State University 2011
MD Ohio State University 2016
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Professor of Pathology and Immunology
BS University of Michigan 1982
MD Wayne State University 1986
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MD University of Vermont 1986
BA University of Vermont 1982
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Assistant Professor of Genetics
PHD University of British Columbia 2010
BS University of Winnipeg 2002
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Associate Professor of Genetics
BS University of Winnipeg 2002
PHD British Columbia Open Univ 2008

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BS University of Illinois 1990
MD Washington Univ in St. Louis 1994

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MD University of Illinois 1988
BA Illinois Wesleyan University 1984

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Professor of Chemistry
Professor of Developmental Biology
AB Columbia University 1972
PHD Washington Univ in St. Louis 1982
MD New York University 1976

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BS University of Pittsburgh 1988
MD University of Pennsylvania 1992

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

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Instructor in Clinical Medicine (primary appointment)
BS School Not Listed 1975
MD School Not Listed 1982

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

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MD Univ Texas Health Science Ctr 2015

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

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

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

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Professor of Medicine (primary appointment)
MD University of Calcut 1990
MBBS University of Calcut 1985

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

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

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

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Assistant Professor of Medicine (primary appointment)
PHD Univ of Minnesota Twin Cities 2005
BS University of MO Columbia 1999

**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

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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 (Pending Executive Faculty Approval) (primary appointment)
PHD University of Michigan 1984

**Zahirul Haque**
Instructor in Clinical Medicine (primary appointment)

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

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

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

**Syed Hasan**
Instructor in Medicine (Pending Dean’s Approval) (primary appointment)

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

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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

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Professor of Clinical Medicine (primary appointment)
Adjunct Professor of Medicine
MD University of Louisville 1961
BA University of Louisville 1957

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Assistant Professor of Emergency Medicine in Medicine (primary appointment)
Assistant Professor of Neurology
BS University of Illinois 1999
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Assistant Professor of Medicine (primary appointment)
Assistant Professor of Anesthesiology
BS Duke University 2001
PHD University of San Francisco 2006

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Associate Professor of Medicine (primary appointment)
Associate Professor of Molecular Microbiology
BS Univ of Wisconsin Madison 1994
PHD Washington Univ in St. Louis 2002
MD 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)
BA Saint Louis University 1982
MD Saint Louis University 1991

**Daniel Robert Herleth**
Instructor in Clinical Medicine (primary appointment)

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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)
MD Washington Univ in St. Louis 2006
BS Princeton University 2002

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

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

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

Stuart T. Higano, MD
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MD University of Massachusetts 1984

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

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

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BS Washington Univ in St. Louis 2001
PHD Washington Univ in St. Louis 2009
MD Washington Univ in St. Louis 2009

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

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Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1992

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BS Univ of Wisconsin Madison 1994

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MD University of Kansas 1976
BA University of Kansas 1972

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

Melissa Louise Hollie
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Christopher Vincent Hothaus, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Saint Louis University 2000

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

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Instructor in Clinical Medicine (primary appointment)

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BA Dartmouth College 1964
MD Saint Louis University 1968

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MD Washington Univ in St. Louis 1982
BA Clark University 1975

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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

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PHD Northeastern University 2008

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MS Edinburgh University 2000
BS Nanjing University 1999
PHD Edinburgh University 2003
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Professor of Medicine (primary appointment)  
PHD Harvard University 1978  
MA Harvard University 1974  
BS Mass Inst of Technology (MIT) 1971

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BS Yale University 1999  
MD University of Cincinnati 2007  
PHD University of Cincinnati 2005

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UNKNOWN School Not Listed 1995

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

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

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

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PHD University of Utah 1986  
BS School Not Listed 1970  
MS Tsinghua University, China 1975

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Assistant Professor of Medicine (primary appointment)  
MD New York University 2008  
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Instructor in Clinical Medicine (primary appointment)  
MD University of Missouri 1982  
BA Saint Louis University 1977

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Instructor in Medicine (primary appointment)  
MD Tulane University 2013

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MS Beijing Medical University 2000  
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MD Washington Univ in St. Louis 1975  
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Assistant Professor of Medicine (primary appointment)  
BA Washington Univ in St. Louis 1995  
MD Loyola University Chicago 2000

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Assistant Professor of Cell Biology and Physiology  
BS Stanford University 2002  
MD University of Pennsylvania 2009

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BS Stanford University 2002  
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MD Case Western Reserve Univ 1998  
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MD University of Missouri 1982  
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BS Cornell College 2011  
MD University of Arizona 2016

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MD Yale University 1991  
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BS Johns Hopkins University 1996
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PHD University of Alberta 2013

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

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

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Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
BA University of California 1990
MD Northwestern University 1999
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M PH Saint Louis University 2008
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MD Saint Louis University 1994
BA University of Texas Austin 1990

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MD Government Medical College 2002

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MD University of Chicago 2008
BA University of Chicago 2000
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BS University of Chicago 2000

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BS Michigan State University 1991
PHD Vanderbilt University 1997

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PHD Washington Univ in St. Louis 2018
BS Univ of Wisconsin Madison 2004

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MD University of Vermont 2000
MS University of Texas Austin 1990

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MD Washington Univ in St. Louis 2016

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MD Howard University College of M 2002
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BS1 Morehouse College 1996

William F Johnson
Adjunct Instructor in Medicine (primary appointment)

Grace Dizon-Retiro Jones, DOST
Instructor in Emergency Medicine in Medicine (primary appointment)
DOST Osteopathy 1996

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DOST Osteopathy 1994

Heather Jones, MD
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MD University of Texas Galveston 2011
BS Michigan State University 2007

Amy M Joseph, MD
Professor of Medicine (primary appointment)
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Barbara Jost, MD, MS
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MD Saint Louis University 1997
BS University of Missouri 1993
MS Northwestern University 1995

Randall S Jotte, MD
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MD Harvard University 1987

Karen Ellen Joynt Maddox, MD
Assistant Professor of Medicine (primary appointment)
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BA Princeton University 2000

K

Brad S Kahl, MD
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BS University of Wisconsin-Madison 1989

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MD University of Pennsylvania 1994

Deborah Shipley Kane, MD
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BA Washington Univ in St. Louis 1951
MD Washington Univ in St. Louis 1952

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BS Tufts University 1990
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BS Kakatiya Medical College 2004
MS Eastern Kentucky University 2010

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MD Saint Louis University 1991
BA Brown University 1986

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PHD Washington St University 2006
BS Emory University 1998
Charles Kaufman, MD, PHD  
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MD University of Chicago 2005  
PHD University of Chicago 2003  
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Robert L Kaufman, MD  
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BA University of MO St Louis 1978  
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MD Kaunas University of Medicine 1998  

Eirini Kefalogianni, PHD  
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BS University of Athens 2002  
PHD University of Athens 2007  

Timothy Lee Kella, MD  
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MD Johns Hopkns University Medic 2009  
BS University of Tulsa 2005  

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MD University of Illinois 1982  
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Charlotte J Kennedy, MD, PHD  
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MD University of New Mexico 1975  

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BS Saint Josephs University 2001  

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Adjunct Instructor in Medicine (primary appointment)  

Charbel Chafic Khoury, MD  
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BS American University of Beirut 2004  
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Thomas B Kibby, MD, MPH  
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MD Eastern Virginia Med School 1979  
MPH North Carolina School of the 1988  

Daniel Jason Kichura, MD  
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AS Long Beach City College 1976  
BA University of California 1985  
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Instructor in Clinical Medicine (primary appointment)  
BS Saint Louis University 1980  
MD Saint Louis University 1984  

Charles John Kilo, MD  
Instructor in Clinical Medicine (primary appointment)  
BA University of Kansas 1987  
MD Washington Univ in St. Louis 1991  

Albert J Kim, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD Northwestern University 2009  
BS University of Chicago 2005  

Alfred Kim, MD, PHD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Pathology and Immunology  
MD Drexel University 2005  
BA University of Pennsylvania 1996  
PHD Drexel University 2005  

Brian Kim, MD  
Associate Professor of Medicine (Dermatology) (primary appointment)  
Associate Professor of Anesthesiology  
Associate Professor of Pathology and Immunology
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<td>BS Haverford College 2001</td>
<td>MD University of Washington 2007</td>
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<td>Miriam Yunhee Kim, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>BS Yonsei University 2004 MD Seoul National University 2008</td>
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<tr>
<td>Sun-Joong Kim, PHD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>BS Hannam University 2004 PHD Korea University 2012</td>
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<tr>
<td>Helen Young Kim-James, MD</td>
<td>Instructor in Clinical Medicine (Dermatology) (primary appointment)</td>
<td>BA Southern Methodist University 1997 MD Washington Univ in St. Louis 2001</td>
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<tr>
<td>Rosa Anne Kincaid, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Temple University 1984 BA City College 1970</td>
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<tr>
<td>Donald Kevin King, MD</td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
<td>MD Johns Hopkins University Med 1970 BA Fairfield University 1966</td>
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<td>Kevin Patrick King, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Saint Louis University 2006</td>
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<tr>
<td>Tinna P King</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>BA University of Missouri 1988</td>
</tr>
<tr>
<td>Erik Paul Kirk, MS, PHD</td>
<td>Adjunct Assistant Professor of Medicine (primary appointment)</td>
<td>BS Drury College 1999 MS University of Kansas 2001 PHD University of Kansas 2004</td>
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<tr>
<td>Nigar Kirmani, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>MD King Edward Medical College 1973</td>
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<tr>
<td>Sameer M. Kirtane, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Jefferson Medical College 2008</td>
</tr>
<tr>
<td>Michael K Klebert, MSN, BN, PHD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MSN University of Texas Austin 1987 BN Southern Illinois University 1981 PHD University of MO St Louis 2008 BA Southern Illinois University 1979</td>
</tr>
<tr>
<td>Robert E Kleiger, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BA Yale University 1956</td>
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<tr>
<td>MD Harvard University 1960</td>
<td>Robyn Sue Klein, MD, PHD, MS</td>
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</tr>
<tr>
<td>Sameer M. Kirtane, MD</td>
<td>Adjunct Professor of Medicine (primary appointment)</td>
<td>BS US Military Academy 1979 MD University of Rochester 1983</td>
</tr>
<tr>
<td>Nigar Kirmani, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BS Rhodes College 1982</td>
</tr>
<tr>
<td>Sameer M. Kirtane, MD</td>
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<td>BS Stanford University 1974</td>
</tr>
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</table>
Sri Devi Kolli, MBBS  
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Professor of Biomedical Engineering  
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MS University of Ghana Medical Sc 2003  
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PHD Columbia University 2007  
MA Columbia University 2004  
M PHIL Columbia University 2005  
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MS John Hopkins University 2000  
MD Drexel University 2004

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MD University of Illinois Chicago 2009

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MD Northwestern University 1992  
PHD University of Georgia 1981  
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MS University of Georgia 1978

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BS Yale University 2001  
MD Yale University 2007

**Shane Joseph LaRue, MD**  
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MD Medical College of Wisconsin 2005

**John M Lasala, MD, PHD**  
Professor of Medicine (primary appointment)  
Professor of Surgery (Cardiothoracic Surgery)  
BA Drew University 1975  
MD University of Connecticut 1983  
PHD Saint Louis University 1979

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Associate Professor of Medicine (primary appointment)  
MD Wayne State University 1971  
BS Wayne State University 1967

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Assistant Professor of Developmental Biology  
Assistant Professor of Pathology and Immunology  
MD Washington Univ in St. Louis 2008  
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**Steven Jay Lavine, MD**  
Professor of Medicine (primary appointment)  
MD Temple University 1976  
BA Temple University 1972

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MD Washington Univ in St. Louis 1997  
MS University of London 2004  
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BA Korea University Medical Coll 1978  
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Alan A and Edith L Wolff Distinguished Professor of Medicine
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Professor of Pathology and Immunology
MD Univ of Wisconsin Milwaukee 1985
<table>
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<tr>
<th>Name</th>
<th>Title</th>
<th>Institution(s)</th>
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<tr>
<td>Michael Brayer Lippmann, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BS Univ of Wisconsin Milwaukee 1981</td>
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<td>MD State University of New York 1973</td>
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<td>Mauricio Lisker-Melman, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BS Northwestern University 2007</td>
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<td>MD University of Illinois Chicago 2011</td>
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<tr>
<td>David B Liss, MD</td>
<td>Assistant Professor of Medicine in Medicine (primary appointment)</td>
<td>BA University of MO St Louis 1971</td>
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<td>MD University of MO Columbia 2008</td>
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<td>Mary Kathryn Liszewski</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>BA University of MO St Louis 1971</td>
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<td>MD Washington Univ in St. Louis 2013</td>
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<td>Adam Daniel Littich, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Saint Louis University 2009</td>
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<td>Marina Litvin, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>BA Washington Univ in St. Louis 2003</td>
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<td>Jianmei Liu, MD, MS</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Shanghai Medical University 1984</td>
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<td>Xinping Liu, PHD, MS</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>BS School Not Listed 1986</td>
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<td>Adam Edward Locke, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>BA Lawrence University 2003</td>
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<td>PHD Emory University 2010</td>
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<td>Irfan J Lodhi, MS, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MS Wayne State University 1996</td>
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<td>Beverly A Logan-Morrison, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>Andrea Loiselle, MD, M PH</td>
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Cynthia Xiuguang Ma, PHD, MD
Professor of Medicine (primary appointment)
PHD University of Cincinnati 1997
MD Beijing Medical University 1990

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

Liang Ma, PHD
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Associate Professor of Developmental Biology
BA University of CA Berkeley 1989
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Ningning Ma, MD
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BA Washington Univ in St. Louis 2009

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Thomass M Maddox, MD, MS
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MS Harvard University 2007

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

Henry E Mattis, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1975
BS University of Illinois 1971

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

Kara H Mayes
Instructor in Clinical Medicine (primary appointment)

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

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

Donte D McClary, MD
Instructor in Clinical Medicine (primary appointment)
BS Xavier University 1993
MD Meharry Med College 1998

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

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

Jay R. McDonald, MD
Associate Professor of Medicine (primary appointment)
BS Portland St University 1994
BA Duke University 1991
MD Oregon Health Science Univers 1998

Debra Ann McDonnell, AS, DPT, MS
Associate Professor of Emergency Medicine in Medicine (primary appointment)
Associate Professor of Orthopaedic Surgery
Associate Professor of Physical Therapy
AS Oakton Community College 2000
DPT Washington Univ in St. Louis 2005
BS Washington Univ in St. Louis 1990
MS Washington Univ in St. Louis 1990

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

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

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

Tristan Joy McIntosh, PHD, MS
Instructor in Medicine (primary appointment)
PHD University of Oklahoma 2018
BS University of Utah 2013
MS University of Oklahoma 2015

Oliver McKee, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
BA McGill University 1975
MD School Not Listed 1981

Clark R McKenzie, MD
Instructor in Clinical Medicine (primary appointment)
BA University of Missouri 1989
MD University of Missouri 1989

Robert M McMahon, JD, MD
Instructor in Clinical Medicine (primary appointment)
BA University of California 1971
JD University of California 1974
MD Washington Univ in St. Louis 1989

Amy McQueen, PHD, MA
Associate Professor of Medicine (primary appointment)
PHD University of Houston 2002
MA University of Houston 1999
BA University of CA San Diego 1996

Shal B Mehta, MD
Assistant Professor of Medicine (primary appointment)
MD University of Pittsburgh 2008
BS Carnegie Mellon University 2003

Neha Mehta-Shah, MD
Assistant Professor of Medicine (primary appointment)
BA Northwestern University 2005

MD Northwestern University Med 2009

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)
BA University of Missouri 1972
MD University of Miami 1977

Robert S Mendelsohn, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1954
BA Washington & Lee 1950

James Patrick Mendoza, MD, MS
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
BS University of Virginia 2009
MD Commonwealth College 2016
MS Boston University 2012

Ronald L Mera, MD
Instructor in Clinical Medicine (primary appointment)
BS School Not Listed 1970
MD School Not Listed 1976

Manasa M Metireddy, MD
Assistant Professor of Medicine (primary appointment)
MD Sri Venkateswara University 2006

Rabya Mian, MBBS
Instructor in Clinical Medicine (primary appointment)
MBBS King Edward Medical College 1999

Scott Micek, MD
Adjunct Instructor in Medicine (primary appointment)
MD University of Iowa 1999

Gina Michael, MD
Instructor in Clinical Medicine (primary appointment)
MD Duke University 1982
BS University of Missouri 1978

William Samuel Micka, MD
Instructor in Clinical Medicine (primary appointment)
BA Saint Louis University 1999
MD Saint Louis University 2003

Charles William Miller, MD
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
MD Washington Univ in St. Louis 1972
BS School Not Listed 1968

Christopher A Miller, BS1, PHD
Assistant Professor of Medicine (primary appointment)
BS1 Truman State University 2005
BS Truman State University 2005
PHD Baylor University 2011
Heidi B Miller, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Harvard University 2000  
BS Yale University 1994

Lara Elizabeth Miller, DOST  
Instructor in Clinical Medicine (primary appointment)  
BS Carleton College 1996  
DOST Midwestern University 2000

Mark James Miller, PHD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Pathology and Immunology  
BS University of California 1991  
PHD University of California 1996

Jeffrey R Millman, PHD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Biomedical Engineering  
PHD Mass Inst of Technology (MIT) 2011  
BS North Carolina State Universit 2005

Jason C Mills, AB, MD, PHD, MD1  
Professor of Medicine (primary appointment)  
Professor of Developmental Biology  
Professor of Pathology and Immunology  
AB Washington Univ in St. Louis 1989  
MD University of Pennsylvania 1997  
BA Washington Univ in St. Louis 1989  
PHD University of Pennsylvania 1997  
MD1 University of Pennsylvania 1997

Jaspar J Min  
Instructor in Medicine (Pending Dean's Approval) (primary appointment)

Graeme Mindel, MS, MBBCH  
Instructor in Clinical Medicine (primary appointment)  
MS University of the Witwatersra 1992  
MBBCH University of the Witwatersra 1992

Jeffrey H Miner, PHD  
Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
BA Northwestern University 1985  
PHD California Institute Technolo 1991

Jonathan J Miner, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Molecular Microbiology  
Assistant Professor of Pathology and Immunology  
BS Brigham Young University 2002  
PHD University of Oklahoma 2008  
MD University of Oklahoma 2010

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

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

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

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

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

C. Scott Molden, MD  
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

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

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

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

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

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

Sahar Morkos El Hayek
Instructor in Emergency Medicine in Medicine (Pending Dean’s Approval) (primary appointment)

Donald G Morris, MS, MD
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MS Saint Louis University 1989
MD University of Missouri 1993
BA Benedictine College 1987

Aubrey R Morrison, MBBS
Professor of Medicine (primary appointment)
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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

Jessica Mozersky, MS, PHD
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BS University of Toronto 1998
MS University of Pennsylvania 2017
PHD University College London 2010

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

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Instructor in Medicine (Pending Dean’s Approval) (primary appointment)
PHD Washington Univ in St. Louis 2013
MD Washington Univ in St. Louis 2013

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MD Medical College of Wisconsin 2010

Faquir Muhammud
Instructor in Clinical Medicine (primary appointment)

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

BA University of Nairobi 2003

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
Assistant Professor of Medicine (primary appointment)
MS University of Missouri 1984
BS University of Missouri 1978
PHD Saint Louis University 1992

Haris Farooq Murad
Assistant Professor of Medicine (primary appointment)

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

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

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

Umadevi Muthyala
Instructor in Clinical Medicine (primary appointment)

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

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

N

Devika Nagaraj
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Eina M Nagasako, PHD, MD
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PHD University of Rochester 2001
BS Pomona College 1991
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 (Pending Dean’s Approval) (primary appointment)

Michael J. Naughton, MD
Associate Professor of Medicine (primary appointment)
MD State Univ of NY Buffalo 1993
BA Williams College 1989

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
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MA Stanford University 1981
PHD Stanford University 1989
BS University of California 1980

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

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BS Framingham State College 1974
PHD Georgetown University 1978

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BA Knox College 1988
PHD Washington Univ in St. Louis 1995

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BA Washington Univ in St. Louis 1987
MD Washington Univ in St. Louis 1991

Amy C Ney, MD
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BS Mary Washington College 1997
MD University of Virginia 2001

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

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

Roland Tezeh Njei, MD
Instructor in Medicine (Pending Dean's Approval) (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

Amit Noheria, MS, MD
Assistant Professor of Medicine (primary appointment)
MS Harvard University 2007
MD All-India Inst of Medical Sci 2006

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
BS University of CA Berkeley 1999
PHD Stony Brook School of Medicine 2007

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

Muhammad Akram Nyazee, UNKNOWN1, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN1 Nishtar Medical College Multa 1974
UNKNOWN Govt College Sarhodha 1968

O

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

G Patrick O’Donnell, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1977
BA University of Kansas 1972

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

Gregory Olutosin Ogunnowo, MD
Instructor in Medicine (primary appointment)
MD University of South Carolina 2016
BS Georgia St University 2011

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

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

George Charles Oliver, MD
Professor Emeritus of Clinical Medicine (primary appointment)
BA Harvard University 1953
MD Harvard University 1957

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

Robert F Onder Jr, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1983
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

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

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
BA Harvard University 1982
MD Harvard University 1986

Richard E Oslund 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)
BA University of Tennessee 1992
MD University of Tennessee 1999
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution Dates</th>
</tr>
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</table>
| Toshinao Oyama, MS, PHD                   | Instructor in Medicine (primary appointment) | BS Kitasato University 2000  
|                                           |                                      | MS Chiba University 2002  
|                                           |                                      | PHD Chiba University 2017  |
| Vani Pachalla, MD                         | Instructor in Clinical Medicine (primary appointment) | MD School Not Listed 1990  |
| Russell Kent Pachynski, MD                | Assistant Professor of Medicine (primary appointment) | MD Univ of Wisconsin Madison 2003  
|                                           |                                      | BS Stanford University 1994  |
| Robert C Packman, MD                      | Professor of Clinical Medicine (primary appointment) | BS University of Missouri 1954  
|                                           |                                      | MD Washington Univ in St. Louis 1956  
|                                           |                                      | BA Washington Univ in St. Louis 1953  |
| 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 (Pending Executive Faculty Approval) (primary appointment) | BS Duke University 1995  
|                                           |                                      | MD University of Texas Southwest 2001  |
| Peter D Panagos, MA, MD                   | Professor of Emergency Medicine in Medicine (primary appointment) | Professor of Neurology  
|                                           |                                      | BA Dartmouth College 1987  
|                                           |                                      | MA Boston University 1994  
|                                           |                                      | MD Emory University 1994  |
| Anupam S Pande, MBBS, MS                  | Assistant Professor of Medicine (primary appointment) | MBBS Byramjee Jeejeebhoy Medical Co 2009  
|                                           |                                      | MS University of Texas Houston 2011  |
| Joseph Pangelinan, MA, PHD                | Assistant Professor in Medicine (primary appointment) | MA Southeast Missouri St Univers 1995  
|                                           |                                      | PHD University of MO St Louis 2015  |
| Kerry Will Pantelis, MD                   | Instructor in Medicine (primary appointment) | MD University of MO Kansas City 2004  |
| Andrew Yong-Woo Park, MD                  | Instructor in Medicine (primary appointment) | BA Yale University 1995  
|                                           |                                      | MD St. George's University 2006  |

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution Dates</th>
</tr>
</thead>
</table>
| Haeseong Park, MD, MS                     | Assistant Professor of Medicine (primary appointment) | MD Seoul National University 2006  
|                                           |                                      | BS Seoul National University 2001  
|                                           |                                      | MS Johns Hopkins University Medic 2007  |
| Stephanie Sun-Young Park                  | Instructor in Clinical Medicine (primary appointment) |  |
| David A Parks, MBA, MD                    | Associate Professor of Clinical Medicine (primary appointment) | BS University of MO Rolla 1979  
|                                           |                                      | MBA Southern Illinois University 1985  
|                                           |                                      | MD Saint Louis University 1994  |
| Deborah L Parks, MD                       | Professor of Medicine (primary appointment) | BA Washington Univ in St. Louis 1978  
|                                           |                                      | MD University of Louisville 1982  |
| Dilip H. Patel                            | Instructor in Clinical Medicine (primary appointment) |  |
| Pravinkumar Manjibhai Patel, MD           | Instructor in Medicine (primary appointment) | MD BJ Medical College 1980  |
| Rajiv Nanu Patel, MD                      | Instructor in Clinical Medicine (primary appointment) | MD Saba University School of Med 2001  |
| Rupa R Patel, MD, M PH                    | Assistant Professor of Medicine (primary appointment) | MD Wayne State University 2004  
|                                           |                                      | BA University of Michigan 2000  
|                                           |                                      | M PH Johns Hopkins University 2012  |
| Urvi Patel, MD                            | Assistant Professor of Medicine (Dermatology) (primary appointment) | BA Kent St University 2007  
|                                           |                                      | MD University of Tenn Memphis 2011  |
| Amanullah Pathan, UNKNOWN1, MS, UNKNOWN    | Instructor in Clinical Medicine (primary appointment) | UNKNOWN1 School Not Listed 1969  
|                                           |                                      | MS School Not Listed 1969  |
| Bruce Patterson, PHD                      | Professor of Medicine (primary appointment) | BS Southern Illinois University 1974  |
| Philip Richard Orrin Payne, MA, PHD       | Professor of Medicine (primary appointment) | BS Southern Illinois University 1980  
|                                           |                                      | BA University of CA San Diego 1999  
|                                           |                                      | PHD Columbia University 2006  |

42
Chelsea Elizabeth Pearson, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 2013

Susan E Pearson, MS, PhD, BFA, DOST
Instructor in Clinical Medicine (primary appointment)
MS Central Michigan University 1984
PHD University of Southwestern Lo 1986
BFA Southern Methodist University 1977
DOST School Not Listed 1992

Katrina Sophia Pedersen, MD, MS
Assistant Professor of Medicine (primary appointment)
MD Southern Illinois University 2009
BA Grinnell College 2003
MS University of Iowa 2005

Marybeth Pereira, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Swarthmore College 1973
MD University of California 1978

Julio E Perez, MD
Professor of Medicine (primary appointment)
MD University of Puerto Rico 1973
BS University of Puerto Rico 1970

Laurence F Perlstein, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Louisville 1974
BS Tulane University 1967

Linda R Peterson, MD
Professor of Medicine (primary appointment)
Professor of Radiology
MD Washington Univ in St. Louis 1990
BS Georgetown University 1986

Lindsay L Peterson, MD
Assistant Professor of Medicine (primary appointment)
BS Tulane University 2000
MD Tulane University 2006

Timothy Richard Peterson, PHD
Assistant Professor of Medicine (primary appointment)
PHD Mass Inst of Technology (MIT) 2010
BS University of Michigan 1999

Allegra Petti, PHD
Assistant Professor of Medicine (primary appointment)
BS Lawrence University 2003
PHD Emory University 2010

Christine T Pham, MD
Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
BS University of Florida 1981
MD University of Florida 1985

Jennifer A Philips, PHD, MD, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Molecular Microbiology
BA Columbia University 1991
PHD University of CA San Francisco 2015
MD University of CA San Francisco 2000
PHD University of CA San Francisco 1998

William J Phillips, MD
Assistant Professor of Clinical Medicine (primary appointment)
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

Stephen J Pieper, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
BS University of Alabama 2012
MD University of Mississippi 2016

Bryan Douglas Plotrowski, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2004

Beatrice Plougastel 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, MBBCH
Adjunct Professor of Medicine (primary appointment)
MBBCH University of the Witwatersrand 1973

Makawadee 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 (Pending Executive Faculty Approval) (primary appointment)
BS John Carroll University 1967
MD Saint Louis University 1971

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 Ireland 1979

John A Powell, MD
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
MD University of Michigan 1971
BS University of Notre Dame 1967

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Assistant Professor of Medicine (primary appointment)
BS Union University 1988
PHD Georgia Tech 1993

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)
MD University of California 1991
BA Yale University 1981

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

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

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

Bethany C. Prudner, PHD
Instructor in Medicine (primary appointment)
BS Youngstown St University 2003
PHD Kent St University 2013

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

Patricia M Quinley, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Illinois 1989
BS University of Illinois 1985

Abdul H Qureshi, MS
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)
PHD University of MO Columbia 2013
BS Univ of Minnesota Twin Cities 2007

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U. Ramakrishna Rao, MS, PHD
Associate Professor of Medicine (primary appointment)
MS Andhra University 1977
BS Mysore University 1975
PHD University of Bombay 1987

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
MD Washington Univ in St. Louis 1967
BA Rice University 1963

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

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

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

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

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

Timothy Patrick Rearden, MS, 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)
BA University of Texas Austin 1992
MD Texas Tech University 1996

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

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
PHD University of Notre Dame 2011
BS Bethel College 2004

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

Craig K Reiss, MD
Professor of Clinical Medicine (primary appointment)
Jacqueline Levy Reiss, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1983
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
PHARMD University of Cordoba 1989
BS University of Cordoba 1987
PHD University of Cordoba 1999

Hilary Elizabeth Lee Reno, MD, MS, PHD
Assistant Professor of Medicine (primary appointment)
MD University of Illinois 2002
MS University of Illinois 1997
PHD University of Illinois 2000

Stacey L. Rentschler, MD, PHD, MS
Associate Professor of Medicine (primary appointment)
Associate Professor of Biomedical Engineering
Associate Professor of Developmental Biology
MD Mount Sinai School of Medicine 2004
PHD Mount Sinai School of Medicine 2002
BS Lehigh University 1995
MS Mount Sinai School of Medicine 2000

Nicholas R Renz, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
BA University of MO Columbia 2004
MD University of MO Columbia 2008

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

Michael W Rich, MD
Professor of Medicine (primary appointment)
MD University of Illinois 1979
BA University of Illinois 1974

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

Nancy Ridenour
Adjunct Professor of Medicine (primary appointment)

Amy Elizabeth Riek, MD
Assistant Professor of Medicine (primary appointment)
BS Univ of Wisconsin Madison 2001
MD Washington Univ in St. Louis 2005

Caron E Rigden, BFA, MD
Assistant Professor of Medicine (primary appointment)
BFA Tulane University 1996
MD Tulane University 2000

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

Elisha D.O. Roberson, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Genetics
PHD Johns Hopkins University 2009
BS Western Kentucky University 2004

Paul Arthur Robiolio, MD, M PHIL
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1989
BS Haverford College 1983
M PHIL Cambridge University 1985

Guillermo Rodriguez Jr, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD National Autonomous U of Mex 1980

M. Reza Rofougaran, MD
Instructor in Clinical Medicine (primary appointment)
MD Tehran University 1988

H. Bryan Rogers, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1965

Felice A Rolnick, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1987
BS Union College New York 1982

Arthur G. Romero, PHD
Associate Professor of Medicine (primary appointment)
PHD Univ of Wisconsin Madison 1985
BS Johns Hopkins University 1979

Ernesto J Romo, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
MD University of Illinois Chicago 2011
BS University of Dayton 2007

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

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

Daniel B Rosenbluth, MD
Professor of Medicine (primary appointment)
Professor of Pediatrics
Tracey C and William J Marshall Professor of Medicine
MD Mount Sinai School of Medicine 1989
BS Columbia University 1985

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

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

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)
MD Washington Univ in St. Louis 1971
BA Princeton University 1967

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

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

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 1977
MS Washington Univ in St. Louis 1992
BS Saint Louis University 1975

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

Michael B Rusche
Adjunct Instructor in Medicine (primary appointment)

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

Ilaria Russo, MS, PHD, MS
Assistant Professor of Medicine (primary appointment)
BS University of Palermo 1998
MS University of Padua 1998
BS University of Palermo 1998
PHD University of Padua 2005
MS University of Padua 1998

Joseph F Ruwitch Jr, MD
Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1966

S

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
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 Sall 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)
BS Reading University 1982
DC Logan College of Chiropractic 1991
MD Saint Louis University 1998

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)
MD Washington Univ in St. Louis 1976
BA University of Texas Austin 1972

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

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

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

Sumithra Sankararaman, 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 del Buenos Aires 1971

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

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)
MD Oregon Health Science Univers 1975
BA University Wyoming 1971

Jean E. Schafer, MD
Virginia Minnich Distinguished Professor of Medicine (primary appointment)
Professor of Developmental Biology
MD Harvard University 1986
BA Harvard Radcliff 1982

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

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

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

Mark Scheperle, MD
Instructor in Clinical Medicine (primary appointment)
BA University of Missouri 1989
MD University of Missouri 1989
Alvin K Schergen, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1980
BA Washington Univ in St. Louis 1976

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)
MD University of Mississippi 1985
BA University of Mississippi 1981

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)
MD Saint Louis University 1996
BA Saint Louis University 1991

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

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

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

MA 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

George G. Schweitzer, MS, PHD
Instructor in Medicine (primary appointment)
BS Washington Univ in St. Louis 2004
MS Southern Ill Univ Edwardsville 2007
PHD University of Michigan 2011

Lynne M Seacord, MD
Associate Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1983

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)
MD University of Missouri 1987
BA 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
MD Washington Univ in St. Louis 1981
BA University of Virginia 1977

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

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

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

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

Liang Shan, MS, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Pathology and Immunology
MS Fudan University 2007
BS Nankai University 2003
Elaine Yilin Shao, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MD East Carolina University 2016
BS Wake Forest University 2012

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

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

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, MB BCH, MS
Associate Professor of Medicine (primary appointment)
BS University of the Wittwatersra 1993
MB CH University of the Wittwatersra 1996
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)
BS Washington Univ in St. Louis 1972
MD Washington Univ in St. Louis 1977

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)
BA Brandeis University 1977
MD University of Missouri 1981

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)
BA Saint Louis University 1991
MD Saint Louis University 1996

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

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

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

Robert W Sindel, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1975
BA Washington Univ in St. Louis 1969

Sanford S Sineff, 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

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

Sudhir Man Singh
Instructor in Medicine (primary appointment)

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)
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)  
BS Duke University 1986  
PHD Oxford University 1989  
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)  
BS Ohio State University 2001  
PHD Emory University 2008

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)  
BA Washington Univ in St. Louis 1969  
MD Washington Univ in St. Louis 1975

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

John Spertus  
Adjunct Professor of Medicine (primary appointment)

Michael Spezia  
Instructor in Clinical Medicine (primary appointment)

Erik Christian Stabell, MD  
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)  
MD Saint Louis University 1971  
BA University of Rochester 1967

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

Richard Ian Stein, PHD  
Associate Professor of Medicine (primary appointment)  
PHD Arizona State University 2000

Emily Steiner, MD  
Instructor in Medicine (primary appointment)  
BA Case Western Reserve Univ 2009  
MD University of Toledo 2013

William F Stenson, MD  
Dr Nicholas V Costrini Professor of Medicine (primary appointment)
Barbara B Sterkel
Adjunct Associate Professor of Medicine (primary appointment)

Kara Ellen Sternhell-Blackwell, MD, MA
Associate Professor of Medicine (Dermatology) (primary appointment)
BA Washington Univ in St. Louis 1999
MD Washington Univ in St. Louis 2005
MA Washington Univ in St. Louis 2003

Sean P Stickles, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BA State Univ of NY Buffalo 2004
MD New York Medical College 2008

Nathan O. Stiltz, PhD, BA1, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Genetics
PHD University of Illinois Chicago 2006
BA1 Washington Univ in St. Louis 1998
BA Washington Univ in St. Louis 1998
MD University of Illinois Chicago 2006

Keith Evan Stockerl-Goldstein, MD
Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 1986
MD University of CA Los Angeles 1991

James Andrew Stokes, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1994
BA Stanford University 1976

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

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

Christopher Michael Sturgeon, PhD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Developmental Biology
PHD University of British Columbia 2006
BS Carleton University 2001

Xinming Su, MS, PHD
Instructor in Medicine (primary appointment)
MS Nanjing Agriculture Univ 2003
BS Shihezi Medical College 1996
PHD Nanjing Agriculture Univ 2006

Xiong Su, PHD
Assistant Professor of Medicine (primary appointment)
Associate Professor of Emergency Medicine in Medicine (primary appointment)  
MD Loma Linda University 1997  
BS Union College Nebraska 1992  

Kongsak Tanphaichitr, MD  
Professor of Clinical Medicine (primary appointment)  
MD Siriraj Medical School 1970  

Richard S Tao, MIM, MD  
Instructor in Emergency Medicine in Medicine (primary appointment)  
BA Indiana State University 1991  
MIM Indiana State University 1999  
MD Indiana State University 1995  

Arnold S Tepper, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Missouri 1970  
BS School Not Listed 1966  

Wanda T Terrell, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1975  
MD Washington Univ in St. Louis 1979  

Larissa Bryka Thackray, PHD  
Associate Professor of Medicine (primary appointment)  
PHD U of Colorado Health Sci Ctr 2003  
BS Cornell University 1991  

George K. Thampy, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Kerala University 1977  

Shaukat Thanawalla  
Instructor in Clinical Medicine (primary appointment)  

Daniel Leonidas Theodoro, MD  
Associate Professor of Emergency Medicine in Medicine (primary appointment)  
MD Brown University 1997  

J. Allen Thiel, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BS Rockhurst College 1956  
MD Saint Louis University 1960  

Mark S Thoelke, PHD, MD  
Professor of Medicine (primary appointment)  
PHD University of Illinois 1990  
BS University of Illinois 1982  
MD University of Illinois 1990  

Alex Anthony Thomas, MD  
Instructor in Medicine (primary appointment)  
MD University of Louisville 2015  

Benjamin S Thomas, MD  
Adjunct Instructor in Medicine (primary appointment)  
MD Mercer University Macon 2009  

BS Georgia Tech 2002  

Theodore Seth Thomas, MD, M PH, MS  
Instructor in Medicine (primary appointment)  
MD University of MO Columbia 2010  
M PH Washington Univ in St. Louis 2017  
MS University of MO Columbia 2006  
BS University of MO Columbia 2005  

Erik P Thyssen, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD University of Copenhagen 1984  
BS University of Copenhagen 1980  

LinLin Tian, PHD  
Instructor in Emergency Medicine in Medicine (primary appointment)  
BS Hebei Medical University 2004  
PHD Beijing Institute of Radiation 2009  

Lawrence S Tierney, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BS University of Illinois 1984  
MD University of Illinois 1988  

Jeffrey P Tillinghast, MD  
Associate Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1980  
BS State University of New York 1976  

Garry S Tobin, MD  
Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 1985  
BS MO S&T (formerly UofMO Rolla) 1981  

Douglas M Tollefsen, PHD, MD  
Professor of Medicine (primary appointment)  
BA Grinnell College 1970  
PHD Washington Univ in St. Louis 1977  
MD Washington Univ in St. Louis 1977  

Valeria Tosti, MD  
Instructor in Medicine (primary appointment)  
MD University of Verona 2009  

Robert R Townsend, MS, PHD, MD  
Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
BS Centenary College 1972  
MS Tulane University 1976  
PHD Johns Hopkins University 1982  
MD Tulane University 1976  

Elizabeth A Tracy, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Univ of Wisconsin Milwaukee 1986  
BS Marquette University 1982  

Doris Janet Tribune-Brown  
Instructor in Clinical Medicine (primary appointment)
Nikolaos Trikalinos, MD
Assistant Professor of Medicine (primary appointment)
MD UNIVERSITY OF IOANNINA 2005

Sandeep Kumar Tripathy, PHD, MD
Assistant Professor of Medicine (primary appointment)
BS University of Illinois 1990
PHD University of Chicago 1995
MD University of Chicago 1998

Elbert P Trulock III, MD
Rosemary and I Jerome Flance Professor of Pulmonary Medicine in Medicine (primary appointment)
BS Emory University 1968
MD Emory University 1978

Thomas F Tse, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Nebraska 1972
MD Univ of Nebraska at Omaha 1976

David J Tucker, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Saint Louis University 1981
BS University of Notre Dame 1977

Dolores R Tucker, MD
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
MD Washington Univ in St. Louis 1974
BS Saint Mary's College 1958

Stacey S Tull, M PH, MD
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
BS University of Texas Austin 1993
M PH Duke University 1997
MD Duke University 1997

John W Turk, MD, PHD
Professor of Medicine (primary appointment)
Alan A and Edith L Wolff Professor of Endocrinology Professor of Pathology and Immunology
MD Washington Univ in St. Louis 1976
PHD Washington Univ in St. Louis 1976
BA Washington Univ in St. Louis 1970

Garima Gupta Tyagi, PHD, MASTERS
Instructor in Medicine (primary appointment)
BA Delhi University 2003
PHD Indian Institute of Science 2011
MASTERS Institute of Medical Science 2005

Mark C Udey, MD, PHD
Professor of Medicine (Dermatology) (primary appointment)
MD Washington Univ in St. Louis 1982
BS Univ of Wisconsin Madison 1975
PHD Washington Univ in St. Louis 1982

Fumihiko Urano, PHD, MD
Samuel E Schechter Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
PHD Keio University 1998
MD Keio University 1994

Geoffrey L Uy, MD, MA, BA1
Associate Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 2001
MA Washington Univ in St. Louis 2001
BA1 Cornell University 1996
BA Cornell University 1996

Justin Marinus Vader, MD
Assistant Professor of Medicine (primary appointment)
MD University of Texas Southwest 2006

Brij R Vaid, MD
Instructor in Clinical Medicine (primary appointment)
MD Rush University 1992

Albert Lee Van Amburg III, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1968
MD Washington Univ in St. Louis 1972

Brian Andrew Van Tine, MD, PHD
Associate Professor of Medicine (primary appointment)
MD University of AL Birmingham 2005
BS University of Arizona 1995
PHD University of AL Birmingham 2005

Gil M Vardi, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Tel-Aviv University 1988

Maria Cristina Vazquez Guillamet, MD
Assistant Professor of Medicine (primary appointment)
MD Carol Davila U of Medicine 2005

Deborah J Veis, PHD, MD
Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
BA Princeton University 1987
PHD Washington Univ in St. Louis 1995
MD Washington Univ in St. Louis 1995

Stephanie Margaret Velloze, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2015

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Associate Professor of Clinical Medicine (primary appointment)  
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MD University of Rochester 1981  
BA University of Vermont 1977  

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BA State Univ of NY Binghampton 1978  
MS University of Virginia 1981  
MD University of Virginia 1985  

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MD Ohio State University 1966  
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MS Southern Illinois University 1992  
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PHD University of Maryland 2003  

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MD Case Western Reserve Univ 1980  
BA Harvard University 1975  

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BS Brigham Young University 1995  
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Courses

Courses include the following:

- M25 Medicine (p. 59)
- M27 Emergency Medicine (p. 66)

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.

M25 Medicine 606A 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, spondyloarthopathies, 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 17 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
M25 Medicine 611B Cardiovascular Disease
Cardiovascular disease remains the number one cause of death within the United States, although steady advances in the field have greatly reduced both its associated morbidity and mortality. This course provides a foundation for understanding the pathophysiology, diagnosis, and management of cardiovascular conditions commonly encountered in clinical practice, including hypertension, ischemic heart disease, heart failure, arrhythmias, valvular heart disease, pericardial diseases, aortic diseases, peripheral arterial disease, and venous disorders. An emphasis is placed on describing the current state of knowledge in cardiology while also including some of the exciting new developments that are revolutionizing patient care. The course includes lecture overviews of each topic, along with small-group and team-based learning sessions to solidify and apply knowledge of the material to patient case scenarios. In addition, “EKGs of the Week” allow students to practice a structured approach to the interpretation of EKGs.
Credit 30 units.

M25 Medicine 612B 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 problematic scenarios and questions, the group develops potential solutions and management schemes. *Topics in the past have included: 1) Diversity 3.0 training; 2) Business of medicine; 3) Individualized Learning Objectives in clinical scenario; 4) PSQI; 5) Mock Deposition, Risk Management, and Adverse Patient Outcomes; 6) Compassion Fatigue, Resilience, and Burnout Part 1; 7) Compassion Fatigue, Resilience, and Burnout Part 2; 8) Caring for Incendiary Patients; 9) Diagnostic Error and Transitions of Care; 10) Strategies for Effective Teaching and Mentoring. Attendance at 8 out of 10 POM III sessions is required to pass this course. Students may use two absences for any reason and are recommended to save them for their ACES rotation, Labor & Deliver rotation, or an emergency.

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.
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 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 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, spondylarthritis, vasculitis (ANCA-associated vasculitis, temporal arteritis, etc.), spondyloarthopathies (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 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, 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 811 Hospitalist Subinternship**
This course allows the student to work one-on-one with hospitalist physicians on a patient care team. The student 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 electrophysiologic 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-year will 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/year) 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 the winter holidays. The student will function as a member of the consult team and will be involved in the patient care of inpatients and outpatients. The student will be expected to attend daily rounds and conferences.

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 present 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
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-year will 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/year) 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 the winter holidays. The student will function as a member of the consult team and will be involved in the patient care of inpatients and outpatients. The student will be expected to attend daily rounds and 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-medical 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 hemostatic 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 an emphasis on vitamin D and other 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)
Students will teach public and private middle school and/or elementary school students in the St. Louis area about skin cancer and sun protection. SPOTS courses are taught in a single 85-minute session or in two 50-minute sessions. The program involves delivering a PowerPoint presentation with a pre-written script, interactive games, a video, and hands-on demonstrations. The elective is open to students who are new to this program as well as to students who previously participated in the SPOTS first-year selective. Students new to SPOTS are required to attend two evening training sessions (2.5 hours each) to learn the content of the program as well as teaching strategies. For students who have already taken SPOTS, only one evening session is required. Students will teach four SPOTS sessions per week of the elective. Students participating in the elective need to arrange for their own transportation to teaching sessions. 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
This 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 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 bed side
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 the 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 BJHC 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 in 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, radiotherapy 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 newer 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 consultations 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, peripheral and central venous access, and cardiopulmonary resuscitation. Shifts will be eight hours long, and students will rotate between day, evening, and night shifts (including weekend shifts) to gain maximum exposure to all types of emergencies. A core group of lectures will be provided. Students will gain an understanding of prehospital care by doing a ride-along shift with the St. Louis Fire Department EMS. Students will also gain knowledge of the basics of ultrasound during their time in the department. Students interested in EM will be doing 1:1 shifts with a single attending during their last two weeks of the rotation. Students desiring a letter of recommendation from any EM attending should take this WUMS-IV Emergency Medicine Subinternship. Students will be scheduled for required weekend and overnight shifts, and changes will not be allowed to the schedule unless approved prior to the start of the rotation by the course coordinator. Please be advised that there is a limit to the number 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 during the rest of the year will conform to university policy. 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 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.