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

Website: https://internalmedicine.wustl.edu

Research

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

M25 Medicine 900

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

Nicholas O. Davidson, MD
910 Clinical Sciences Research Building, North Tower
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Our focus is on the genetic pathways of nonalcoholic fatty liver disease (NAFLD) and colorectal cancer development. We have two major areas of research interest. Our laboratory is interested, first, in the molecular mechanisms of hepatic steatosis and the pathogenesis of NAFLD. This is the most prevalent liver disease in the United States, likely affecting a quarter of the population. We have generated genetically manipulated mouse strains that offer insights into the mechanisms of hepatic steatosis. The student would work as part of a team, designing and conducting experiments that will test hypotheses concerning the mechanisms and consequences of hepatic steatosis. These studies will primarily involve mouse genetics, examining the expression of candidate genes under a variety of nutritional and pharmacologic settings that modulate hepatic lipid metabolism. In addition, we are using microarrays to study the spectrum of genetic changes that may predict the extent of hepatic lipid accumulation in patients with steatohepatitis. Our goal is to test hypotheses using mouse genetics and to extend these studies to examine the same pathways in humans with NAFLD. Our second area of interest concerns the genetic pathways involved in colorectal cancer, the second leading cause of cancer-related deaths. We have developed a novel strain of mice in which the dominant effects of mutations in the APC tumor suppressor gene have been abrogated through deletion of an RNA binding protein, apobec-1. This deletion has a major effect on the expression of cox-2, abrogating the increase in expression seen in human 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
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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
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Our primary interest is on occupational medicine epidemiology and intervention research. Our research involves the use of epidemiology methods to characterize associations between diseases and work-related exposures. We are also doing workplace intervention studies to prevent injuries and illnesses and to improve healthy diet and physical activity among working populations. During an elective in occupational medicine epidemiology research, students will learn how to use epidemiologic methods to investigate disease processes by working on a mutually agreed-on topic of interest related to occupational diseases. Other activities can include worksite visits and intervention projects as well as involvement with worksite health promotion and policy making. Elective length is variable, depending on individual circumstances. Please contact Dr. Evanoff to discuss this research.

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

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

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

Stacey House, MD, PhD
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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
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This experience is geared toward students with math, physics and engineering backgrounds. The cardiovascular biosciences 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  
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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  
8804 Wohl Hospital  
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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  
Phone: 314-286-2341

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

Katherine Ponder, MD  
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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  
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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.
Jennifer A. Philips, MD, PhD  
Associate Professor of Medicine  
Co-Chief, Division of Infectious Diseases

William G. Powderly, MD  
Dr. J. William Campbell Professor of Medicine  
Co-Chief, Division of Infectious Diseases

Clay F. Semenkovich, MD  
Irene E. and Michael M. Karl Professor of Endocrinology and Metabolism in Medicine  
Chief, Division of Endocrinology, Metabolism and Lipid Research

Mark S. Thoelke, MD  
Associate Professor of Medicine  
Chief, Division of Hospital Medicine

H. James Wedner, MD  
Dr. Phillip and Arleen Korenblat Professor  
Chief, Division of Allergy and Immunology

Patricia H. White, MD  
Associate Professor of Medicine  
Chief, Division of Palliative Care Medicine

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

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

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

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

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

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

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

Thomas J. Brett, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Biochemistry and Molecular Biophysics
Associate Professor of Cell Biology and Physiology
BS North Dakota State University 1992
PHD University of Nebraska 1999

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

Natalia Brito Rivera, MD
Instructor in Medicine (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
BA Sweet Briar College 2003
PHD Washington Univ in St. Louis 2009

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

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

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

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

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

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

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

Benjamin Paul Buettner, MD
Instructor in Medicine (Pending Dean’s Approval) (primary appointment)
MD Wright State University 2016
BS Miami University 2012

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

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

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)
BA University of MO Kansas City 2004
MD 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  
BS University of Oklahoma 1993  
PHD University of Texas Southwest 2001

Jonathan Nicholas Byrd, BS1, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BS1 Tulane University 2007  
MD Washington Univ in St. Louis 2011

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

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

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

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

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, BE, PHD  
Instructor in Medicine (primary appointment)  
BE Harbin Normal University 1999  
PHD Zhejiang Medical University 2003

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)  
BA University of Texas Austin 1992  
MD UniformedServUofHealthSciences 1996

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

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

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

Lilibeth Maria Cayabyab-Loe, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BA Saint Louis University 1986
Alexander Chi Chen, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Surgery (Cardiothoracic Surgery)  
MD University of MO Kansas City 2001

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

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

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

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

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

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

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

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

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

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

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

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

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

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 Christer, 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)
BA Saint Louis University 1993
PHD Washington Univ in St. Louis 2010
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 2006
PHD University of Pittsburgh 2011

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

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

Roberto Civitelli, MD
Sydney M and Stella H Schoenberg Professor of Medicine (primary appointment)

Professor of Cell Biology and Physiology
Professor of Orthopaedic Surgery
MD University of Siena 1980
BS University of Siena 1980

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

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

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

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)
PHD University of Surrey 2008
BS University of Surrey 2004

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

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

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

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

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

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

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

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

BS Beloit College 2003

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

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

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

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

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

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

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

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

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

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

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

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

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

Ann Marie Dale, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Occupational Therapy
BS University of MO Columbia 1983
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)
PHD Virginia Tech 2014
BS HANOI U OF SCIENCE AND TECH 2003

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

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

Anthony Trung Dao, MD
Instructor in Medicine (Pending Dean’s Approval) (primary appointment)
MD Northeast Ohio Medical U 2016
Instructor in Clinical Medicine (primary appointment)
M PH San Diego St University 2005
MD Washington Univ in St. Louis 1995
BS University of Colorado Boulder 1990

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

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

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

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

Rowena Bayudan Delos Santos, MD
Assistant Professor of Medicine (primary appointment)
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 Willamette University 1999

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

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

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

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

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

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

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

Kathryn M Diemer, MD
Professor of Medicine (primary appointment)
Assistant Dean for Career Counseling
BA University of Missouri 1984
MD University of Missouri 1985
Colin Diffie, MD  
Instructor in Medicine (primary appointment)  
MD Univ of Texas Med Sch Houston 2014  
BA University of Texas Austin 2008  
BA University of Texas Austin 2008

Hanan M Dihowm  
Instructor in Medicine (Pending Dean's Approval) (primary appointment)

Li Ding, PHD  
Professor of Medicine (primary appointment)  
Professor of Genetics  
PHD University of Utah 1998

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

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

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)  
BS Edinburgh University 1978  
MD Saint Louis University 1983

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

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

Gerald W. Dorn II, MD  
Philip and Sima K Needelman 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)  
MD University of North Carolina 1990  
BA University of North Carolina 1985

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

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  
BA Franciscan University Stubenv 1989  
MA University of Rhode Island 1990

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

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

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

Edward Harry DuMontier  
Instructor in Clinical Medicine (primary appointment)

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

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

Michael Joseph Durkin, M PH1, MD  
Assistant Professor of Medicine (primary appointment)  
M PH1 University of North Carolina 2015  
MD Medical College of Wisconsin 2008  
BA Illinois Wesleyan University 2004
Tiffany Biason Dy, MD  
Assistant Professor of Medicine (primary appointment)  
BS University of Miami 2005  
MD Univ Texas Health Science Ctr 2009

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

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

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

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

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

Stilianos Efstratiadis  
Assistant Professor of Clinical Medicine (primary appointment)

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

Ali A Ehsani, MD  
Professor of Medicine (primary appointment)  
MD Tehran University 1965

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Bradley A Evanoff, M PH, MD  
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  
M PH University of Washington 1993  
BA Cornell University 1982  
MD Washington Univ in St. Louis 1986

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

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

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

F

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

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

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

Akinrinola Fatoki, MS
Instructor in Clinical Medicine (primary appointment)
MS School Not Listed 1989
BS School Not Listed 1982

Carol Faulk, MD
Instructor in Medicine (primary appointment)
MD Louisiana St University 2014

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

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

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

Mark A Fliaa, MSW
Instructor in Medicine (primary appointment)
MSW Washington Univ in St. Louis 2017

BS Southeast Missouri St Univers 2006

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
BS University of Illinois 1994
PHD University of Illinois 2000

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

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

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

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

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

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)
BS Texas A&M University 2009
MD Univ Texas Health Sci San Anto 2015

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Assistant Professor of Medicine (primary appointment)
MD University of Pittsburgh 2007

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

Randi Elizabeth Foraker, PHD, MA
Associate Professor of Medicine (primary appointment)
PHD University North Carolina 2010
Glennon Joseph Fox, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of MO Columbia 1984

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

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Instructor in Medicine (Pending Dean's Approval) (primary appointment)  
PHD University of Naples 2016  …

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Adolphus Busch Professor of Medicine (primary appointment)  
Head of the Department of Internal Medicine  
BS William Woods College 1978  …

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

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

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

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

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

Suzanne Furesz  
Instructor in Clinical Medicine (primary appointment)  

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

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

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

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

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

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

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Professor of Pediatrics  
MBCHB Bristol University 1977  
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BA Carleton College 1985  
MD University of Illinois 1990  
MBA University of MO St Louis 1998

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BS Howard University 1983  
MD Howard University 1985

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BS University of Puerto Rico 1966  
MD Washington Univ in St. Louis 1970

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BS University of Santo Tomas 1970  
MD University of Santo Tomas 1976

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BA Swarthmore College 1966
MD University of Chicago 1970

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MD Washington Univ in St. Louis 1981
BA Cornell College 1977

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BS Saint Louis University 1979
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MPH Columbia University 2002
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BS Univ of Wisconsin Oshkosh 1979
PHD Iowa State University 1985

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BS University of Illinois 2001
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BA Harvard University 1978
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MS Missouri College 2010
MD University of Missouri 2012
BA University of Evansville 2004

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BS Brown University 1994
PHD Washington Univ in St. Louis 2002

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MD Case Western Reserve Univ 2008
MD Case Western Reserve Univ 2010

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PHD New York U. School of Medicine 2001
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MD Dow Medical College Karachi 1976

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MD University of AR Med Sciences 2011

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Assistant Professor of Anesthesiology
PHD University of San Francisco 2006
BS Duke University 2001

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Associate Professor of Molecular Microbiology
MD Washington Univ in St. Louis 2002
BS Univ of Wisconsin Madison 1994
PHD Washington Univ in St. Louis 2002

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

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BA Saint Louis University 1982
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Instructor in Clinical Medicine (primary appointment)

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

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Assistant Professor of Medicine (primary appointment)
MD Universidad Nacional de Columb 2007

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

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Associate Professor of Medicine (primary appointment)
PHD Freie University 1998
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Assistant Professor of Medicine (primary appointment)
MD Lulu Hatieganu U of Med 2007

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MD Washington Univ in St. Louis 1970
BA Duke University 1966

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

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Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of Utah 2006

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MD Washington Univ in St. Louis 1970
BA Washington Univ in St. Louis 1965
MA Washington Univ in St. Louis 1970

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

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

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

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

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

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

Melissa Louise Hollie
Instructor in Clinical Medicine (primary appointment)

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

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

Neal Holzum
Instructor in Clinical Medicine (primary appointment)

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Adjunct Assistant Professor of Medicine (primary appointment)

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

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

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

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

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

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

Stacey L House, MD, PHD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)

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

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

David Thomas Howell
Instructor in Clinical Medicine (primary appointment)

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

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

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

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Professor of Medicine (primary appointment)
BS School Not Listed 1970
MS Tsinghua University, China 1975
PHD University of Utah 1986

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

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

Lily Huang, MD
Instructor in Medicine (primary appointment)
MD Tulane University 2013

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Instructor in Clinical Medicine (Dermatology) (primary appointment)

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MS Beijing Medical University 2000
PHD Univ of Texas Med Sch Houston 2007

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Associate Professor of Clinical Medicine (primary appointment)
BA Wabash College 1971
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 Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
BS Stanford University 2002
MD University of Pennsylvania 2009

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

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

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MD Washington Univ in St. Louis 2002

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Instructor in Clinical Medicine (Dermatology) (primary appointment)
BS Southeast Missouri St Univers 1978
MD University of Missouri 1982

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MD University of Arizona 2016
BS Cornell College 2011

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BS Rutgers University 1987
MD Yale University 1991

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MD University of MO Columbia 1976

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ME Carnegie Mellon University 1979
BS Washington Univ in St. Louis 1977
MD Washington Univ in St. Louis 1983

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BA Vanderbilt University 1965
MD Louisiana St Univ Hlth Sci 1969

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

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

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PHD University of Alberta 2013

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

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JD Saint Louis University 2004
BS University of Iowa 1984
MD University of Iowa 1988

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PHD University of Chicago 2006
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PHD Vanderbilt University 1997
BS Michigan State University 1991

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BS Univ of Wisconsin Madison 2004
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MD Washington Univ in St. Louis 2016

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BA Johnston Community College 1977

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MD Tufts University 1994

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MD Tufts University 1994
BS Tufts University 1990

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BS Kakatiya Medical College 2004
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Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1984
BS Saint Louis University 1980

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

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BS University of Chicago 2005
MD Northwestern University 2009

Alfred Kim, MD, PHD
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Assistant Professor of Pathology and Immunology
MD Drexel University 2005
PHD Drexel University 2005
BA University of Pennsylvania 1996

Brian Kim, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
Associate Professor of Anesthesiology
Associate Professor of Pathology and Immunology
MD University of Washington 2007
BS Haverford College 2001

Miriam Yunhee Kim, MD
Instructor in Medicine (primary appointment)
BS Yonsei University 2004

MD Seoul National University 2008

Helen Young Kim-James, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
BA Southern Methodist University 1997
MD Washington Univ in St. Louis 2001

Rosa Anne Kincaid, MD
Instructor in Clinical Medicine (primary appointment)
BA City College 1970
MD Temple University 1984

Donald Kevin King, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Johns Hopkins University Medc 1970
BA Fairfield University 1966

Kevin Patrick King, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2006

Tinna P King
Instructor in Clinical Medicine (primary appointment)
BA University of Missouri 1988

Erik Paul Kirk, MS, PHD
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MS University of Kansas 2001
BS Drury College 1999
PHD University of Kansas 2004

Nigar Kirmani, MD
Professor of Medicine (primary appointment)
MD King Edward Medical College 1973

Sameer M. Kirtane, MD
Instructor in Clinical Medicine (primary appointment)
MD Jefferson Medical College 2008

Michael K Klebert, BN, MSN, PHD
Instructor in Medicine (primary appointment)
BN Southern Illinois University 1981
BA Southern Illinois University 1979
MSN University of Texas Austin 1987
PHD University of MO St Louis 2008

Robert E Kleiger, MD
Professor of Medicine (primary appointment)
MD Harvard University 1960
BA Yale University 1956

Robyn Sue Klein, PhD, MS, MD
Professor of Medicine (primary appointment)
Professor of Neuroscience
Professor of Pathology and Immunology
Vice Provost and Assoc Dean of Graduate Medical Education
PHD Albert Einstein College of Med 1993
MS Albert Einstein College of Med 1990
MD Albert Einstein College of Med 1993
BA Barnard College 1985

**Samuel Klein, MS, MD**
Danforth Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
BA Brandeis University 1974
MS Mass Inst of Technology (MIT) 1984
MD Temple University 1984

**Linda Marie Klutho, MD**
Instructor in Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1980
MD University of Missouri 1984

**Paula J Knapp-Baker**
Instructor in Clinical Medicine (primary appointment)

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Assistant Professor of Medicine (primary appointment)
BS Davidson College 2001
MD Washington Univ in St. Louis 2006

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Instructor in Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1980
MD University of Missouri 1984

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BS Rhodes College 1982
PHD School Not Listed 1985
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**Marin H Kollef, MD**
Professor of Medicine (primary appointment)
MD University of Rochester 1983
BS US Military Academy 1979

**Hermann M Koller, MD**
Instructor in Medicine (primary appointment)
BS Stanford University 1974
MD Washington Univ in St. Louis 1978

**Sri Devi Kolli, MBBS**
Instructor in Clinical Medicine (primary appointment)
MBBS Guntur Medical College 1989

**Mary E. Koly, MD**
Instructor in Clinical Medicine (primary appointment)
MD University of MO Kansas City 1995
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Instructor in Medicine (Pending Dean's Approval) (primary appointment)
BS University of Texas Austin 2012
MD Baylor College of Medicine 2016

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BA University of Notre Dame 1980
MD University of Illinois 1984

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BS Emory University 1978
MD Duke University 1982

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MD Washington Univ in St. Louis 1996

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BA University of Arkansas 1957
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MD Washington Univ in St. Louis 1962

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MD Saint Louis University 1980
BS Washington Univ in St. Louis 1975

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BS School Not Listed 1981
MD Semmelweis University of Med 1985

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Adjunct Professor of Physics
Professor of Biomedical Engineering
Professor of Cell Biology and Physiology
BS Cornell University 1969
MS California Institute Technolo 1972
MD University of Miami 1979
PHD California Institute Technolo 1977

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Instructor in Clinical Medicine (primary appointment)
BA Amherst College 1987
MD Johns Hopkns University Medic 1991

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MD University of Iowa 2013
BA Dordt College 2009

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Professor of Medicine (primary appointment)
John E Simon Scholar in Medicine
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PHD McGill University 1982
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BS University of Illinois 1982
MD Saint Louis University 1986

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MD University of Illinois 1964

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MD Emory University 2002
BS Emory University 1998

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Associate Professor of Molecular Microbiology
BA Princeton University 1966
MD Harvard University 1970

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PHD Technische U Braunschweig 2013
BS University of Pune 2006

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MBBS Seth G.S. Medical College 2009

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PHD Washington Univ in St. Louis 2000
MD Washington Univ in St. Louis 2000
BS University of Georgia 1992
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MEE Princeton University 1980
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MD New York Medical College 1984

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MS University of Ghana Medical Sc 2003
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MS Columbia University 2001
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PHD University of Georgia 1981
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Assistant Professor of Medicine (primary appointment)
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MS University of London 2004

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BS University of Michigan 2011

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PHD Texas Tech University 2006
M PH Fudan University 1999
MD Southeast U Medical School 1995

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Assistant Professor of Medicine (primary appointment)
Charles H Lieu, MD
Instructor in Clinical Medicine (primary appointment)
MD State Univ of NY Buffalo 1993

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Instructor in Clinical Medicine (primary appointment)
MD Univ of Health Sciences KC 1970

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Assistant Professor of Medicine (primary appointment)
PHD Duke University 2006
MD National Taiwan University 1999

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MD University of CA Irvine 2011
BS University of CA Davis 2007

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BS Northwestern University 2007

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MD Washington Univ in St. Louis 2013

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Assistant Professor of Medicine (primary appointment)
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MD University of MO Columbia 2008

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MD Emory University 2007

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MS Southeast Missouri St Univers 1999
BS School Not Listed 1986
PHD Washington Univ in St. Louis 2005

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Assistant Professor of Medicine (primary appointment)
BA Lawrence University 2003
PHD Emory University 2010

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Assistant Professor of Medicine (primary appointment)
BS University of Michigan 1993
MS Wayne State University 1996
PHD University of Michigan 2007

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MD Washington Univ in St. Louis 1982
BA Webster University 1976

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Assistant Professor of Medicine (primary appointment)
MD Drexel University 2005
BS University of California 1995
M PH California State University 1999

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Professor of Cell Biology and Physiology
BS University of Western Ontario 1977
MS University of Toronto 1979
MD McGill University 1983

Dwight C Look, MD
Professor of Medicine (primary appointment)
BA University of MO Kansas City 1985
MD University of MO Kansas City 1985

James F Loomis Jr, MD, MBA
Instructor in Clinical Medicine (primary appointment)
MD University of Arkansas 1985
BA Hendrix College 1981
MBA Washington Univ in St. Louis 1997

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Associate Professor of Clinical Medicine (primary appointment)
BA Clark University 1954
MD Washington Univ in St. Louis 1958

Philip A Ludbrook, MBBS
Professor Emeritus of Medicine (primary appointment)
Professor Emeritus of Psychiatry
BS School Not Listed 1957
MBBS University of Adelaide 1963

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Professor of Medicine (primary appointment)
Mabel Dorn-Reeder Distinguished Professor of the History of Medicine
MA Johns Hopkins University 1971
BA Harvard University 1968
MD Johns Hopkins University 1973

Lauren Michelle Ludwig Lee, MD
 Instructor in Clinical Medicine (primary appointment)
MD University of MO Kansas City 2008

Susan L Luedke, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Rochester 1972

Barbara A Lutey, MLS, MD
Assistant Professor of Medicine (primary appointment)
MLS Indiana University Bloomington 1983
BA Indiana University Bloomington 1982
MD University of Iowa 1999

Christopher Raymond Lynch
Instructor in Clinical Medicine (primary appointment)

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

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

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

M

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

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

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

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

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

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

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Associate Professor of Clinical Medicine (primary appointment)
MD Duke University 1950

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

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Instructor in Clinical Medicine (primary appointment)

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

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PHD Case Western Reserve Univ 2007
BA Ithaca College 1998

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

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BA Princeton University 1993
MD Washington Univ in St. Louis 1997

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Professor of Cell Biology and Physiology
BA Washington Univ in St. Louis 1986
MD Saint Louis University 1998
BA Washington Univ in St. Louis 1986
PHD Washington Univ in St. Louis 1994

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

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Instructor in Clinical Medicine (primary appointment)
MBBS Army Medical College 1999

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MBCHB1 Royal College of Surgeons 2005
BA Trinity College Dublin 2000

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

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

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

Douglas L. Mann, MD
Tobias and Hortense Lewin Professor of Medicine (primary appointment)

Professor of Cell Biology and Physiology
MD Temple University 1979
BA Lafayette College 1973

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MD State University of New York 1989
BA Barnard College 1984

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MD University of Basel 1996

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Assistant Professor of Clinical Medicine (primary appointment)
BA De Paul University 1968
MD University of Missouri 1972

Ann G Martin, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
MD Case Western Reserve Univ 1981
BS University of Notre Dame 1977

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

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

Wade H Martin III, MD
Professor of Medicine (primary appointment)
BA University of Kansas 1973
MD University of Kansas 1977

Jerald Arthur Maslanko, MD
Instructor in Clinical Medicine (primary appointment)
MD Emory University 1975

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

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

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

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

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

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

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Instructor in Clinical Medicine (primary appointment)

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MA School Not Listed 1987
PHD University of Paris 1992

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

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

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

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Instructor in Clinical Medicine (primary appointment)
MD New York Medical College 2001

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

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

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

MD University of Tennessee 2001

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

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

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

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MD School Not Listed 1981
BA McGill University 1975

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

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

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

Shail 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

Carlos R Mejia Chew, MD
Instructor in Medicine (primary appointment)
MD Universidad de San Carlos 2008

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

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

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(Pending Executive Faculty Approval) (primary appointment)
MD Stony Brook School of Medicine 2013
BS Brandeis University 2006

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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)
MD Commonwealth College 2016
MS Boston University 2012
BS University of Virginia 2009

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BS School Not Listed 1970
MD School Not Listed 1976

**Manasa M Metireddy, MD**
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MD Sri Venkateswara University 2006

**Rabya Mian, MBBS**
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MBBS King Edward Medical College 1999

**Scott Micek, MD**
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MD University of Iowa 1999

**Gina Michael, MD**
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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)
BS School Not Listed 1968
MD Washington Univ in St. Louis 1972

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BS Truman State University 2005
PHD Baylor University 2011
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Instructor in Clinical Medicine (primary appointment)
BS Yale University 1994
MD Harvard University 2000

**Lara Elizabeth Miller, DOST**
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BS Carleton College 1996
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**Mark James Miller, PHD**
Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
PHD University of California 1996
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Assistant Professor of Medicine (primary appointment)
Assistant Professor of Biomedical Engineering
PHD Mass Inst of Technology (MIT) 2011
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BA Washington Univ in St. Louis 1989
PHD University of Pennsylvania 1997
MD University of Pennsylvania 1997
MD1 University of Pennsylvania 1997
AB Washington Univ in St. Louis 1989

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**Scott Michael, MD**
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MD Duke University 1982
BS University of Missouri 1978

**William Samuel Micka, MD**
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BA Saint Louis University 1999
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**Lara Elizabeth Miller, DOST**
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**Jeffrey R Millman, PHD**
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Professor of Pathology and Immunology
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MD University of Pennsylvania 1997
MD1 University of Pennsylvania 1997
AB Washington Univ in St. Louis 1989

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

**Graeme Mindel, MS, MBBCH**
Instructor in Clinical Medicine (primary appointment)

**Scott Michael, 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)
BS School Not Listed 1968
MD Washington Univ in St. Louis 1972

**Christopher A Miller, PHD, BS1**
Assistant Professor of Medicine (primary appointment)
BS Truman State University 2005
PHD Baylor University 2011
BS1 Truman State University 2005
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, MS, PHD  
Professor of Medicine (primary appointment)  
MS University of Vienna 1999  
PHD University of Texas Austin 1999  

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

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

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)  
MD Case Western Reserve Univ 1972  
BA De Paul University 1968  

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)  
BS University of Missouri 1952  
MD University of Pittsburgh 1954  
BA Washington Univ in St. Louis 1950  

Sung Ho Moon, PHD, MS  
Instructor in Medicine (primary appointment)  
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  
Instructor in Clinical Medicine (primary appointment)  
BA Benedictine College 1987  
MS Saint Louis University 1989  
MD University of Missouri 1993  

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

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

Jessica Mozersky, MS, PHD  
Assistant Professor of Medicine (primary appointment)  
MS University of Pennsylvania 2017  
BS University of Toronto 1998  
PHD University College London 2010  

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

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

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

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

Faquir Muhammud
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

Tahsin Mustaque, MBBS
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MBBS Dhaka University 2012

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

Umadevi Muthyala
Instructor in Clinical Medicine (primary appointment)

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

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

N

Devika Nagaraj
Instructor in Clinical Medicine (primary appointment)

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

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)
MD University of Chicago 1978
BA Carleton College 1970

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

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

Jeanne M Nerbonne, PHD
Professor of Medicine (primary appointment)
Alumni Endowed Professor of Molecular Biology and Pharmacology in Developmental Biology
PHD Georgetown University 1978
BS Framingham State College 1974
Elizabeth P. Newberry, PHD  
Assistant Professor of Medicine (primary appointment)  
PHD Washington Univ in St. Louis 1995  
BA Knox College 1988  

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

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

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

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

Roland Tezeh Njei, MD  
Instructor in Medicine (Pending Dean's Approval) (primary appointment)  
BS University of Illinois Chicago 2011  
MD University of Illinois 2016  

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

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

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

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  

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Instructor in Clinical Medicine (primary appointment)  
UNKNOWN Govt College Sarhadha 1968  
UNKNOWN1 Nishtar Medical College Multa 1974  

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Assistant Professor of Medicine (primary appointment)  
MB BCH 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  

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Assistant Professor of Medicine (primary appointment)  
MB BCH National University of Irelan 2006  

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

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)  
MD University of Minnesota 2007  
BS Gustavus Adolphus College 2003  

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

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

Gregory Olutosin Oggunowo, 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  

BS Harvard University 1996
MD Northwestern University 2004
PHD Northwestern University 2002

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

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

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

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)
BS Saint Louis University 2004
MD University of MO Columbia 2008

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)
BS Saint Louis University 1966
MD Washington Univ in St. Louis 1970

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 Ostlund Jr, MD
Professor of Medicine (primary appointment)
BS University of Utah 1986
MD University of Utah 1970

Theodore Otti, UNKNOWN
Instructor in Clinical Medicine (primary appointment)

UNKNOWN School Not Listed 1983

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

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

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

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
BA Washington Univ in St. Louis 1953
MD Washington Univ in St. Louis 1956

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

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

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

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

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

Andrew Yong-Woo Park, MD
Instructor in Medicine (primary appointment)
BA Yale University 1995
MD St. George's University 2006

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

Stephanie Sun-Young Park
Instructor in Clinical Medicine (primary appointment)

David A Parks, MBA, MD
Associate Professor of Clinical Medicine (primary appointment)
MBA Southern Illinois University 1985
BS University of MO Rolla 1979
MD Saint Louis University 1994

Deborah L Parks, MD
Professor of Medicine (primary appointment)
MD University of Louisville 1982
BA Washington Univ in St. Louis 1978

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

Urvi Patel, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
MD University of Tenn Memphis 2011
BA Kent St University 2007

Amanullah Pathan, UNKNOWN, MS, UNKNOWN1
Instructor in Clinical Medicine (primary appointment)
MS School Not Listed 1969
UNKNOWN1 School Not Listed 1969

Bruce Patterson, PHD
Professor of Medicine (primary appointment)

PHD University of Illinois 1980
BS Southern Illinois University 1974

Philip Richard Orrin Payne, PHD, MA
Professor of Medicine (primary appointment)
Professor of Computer Science and Engineering
Robert J Terry Professor
BA University of CA San Diego 1999
PHD Columbia University 2006
MA Columbia University 2000

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

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)
BS University of Puerto Rico 1970
MD University of Puerto Rico 1973

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
BS Georgetown University 1986
MD Washington Univ in St. Louis 1990

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

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

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, MD, PHD, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Molecular Microbiology
BA Columbia University 1991
MD University of CA San Francisco 2000
PHD University of CA San Francisco 1985

William J Phillips, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1963
BA Ohio State University 1959

Joel Picus, MD
Professor of Medicine (primary appointment)
BS University of Illinois 1979
BA University of Illinois 1979
MD Harvard University 1984

Stephen J Pieper, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1988
BA Washington Univ in St. Louis 1983

Mark Alan Pinkerton II, MD
Instructor in Medicine (Pending Dean’s Approval) (primary appointment)
MD University of Mississippi 2016
BS University of Alabama 2012

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

Beatrice 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, MBCH
Adjunct Professor of Medicine (primary appointment)
MBCH University of the Witwatersra 1973

Makhawadee Pongruangporn, MD
Instructor in Clinical Medicine (primary appointment)
MD Chiang Mai University 2001

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

William J Popovic, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Saint Louis University 1971
BS John Carroll University 1967

Lee S Portnoff, MD, MA
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
BS Purdue University 1972
MD Washington Univ in St. Louis 1978
MA University of California 1974

Daniel E Potts, MD
Associate Professor of Clinical Medicine (primary appointment)
BS Beaufort Technical College 1968
MD Washington Univ in St. Louis 1972

William G Powderly, MD
J. William Campbell Professor of Medicine (primary appointment)
Larry J. Shapiro Director of the Institute of Public Health
MD National University of Ireland 1979

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

Jennifer Lynn Powers Carson, PHD
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)
MD University of Texas Southwest 1988
BS Southern Methodist University 1984

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

David Prelutsky, MD
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)
BA Scripps College 1990
PHD Washington Univ in St. Louis 2001
MD Washington Univ in St. Louis 2001

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

Aaron J Pugh
Adjunct Instructor in Medicine (primary appointment)

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

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)
MD Northwestern University 2007
BS University of Illinois Chicago 2002

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

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

Srinivasan Dubagunta Rao
Adjunct Instructor in Medicine (primary appointment)

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

Keith M Ratcliff
Instructor in Clinical Medicine (primary appointment)

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

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

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

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)
MD Emory University 1997
BA Emory University 1993

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

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

Arhaanth D Reddy
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

BS Tulane University 1962

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

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

Melissa Andrea Reimers, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
BA Washington Univ in St. Louis 2008
MD Saint Louis University 2013
BA Washington Univ in St. Louis 2008

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

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

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

Zhen Ren
Instructor in Medicine (primary appointment)

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

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)
BS Illinois State University 1993
PHD Purdue University 2000

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

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

**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

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

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

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

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

**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)
BS Union College New York 1982
MD School Not Listed 1987

**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)
BS University of Dayton 2007
MD University of Illinois Chicago 2011

**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
MS Lakehead University 2007
BS Lakehead University 2005

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

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

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

**Bruce J Roth, MD**
Professor of Medicine (primary appointment)
MD Saint Louis University 1980

**Marcos Rothstein, MD**
Professor of Medicine (primary appointment)
MD University of Zulia 1974

**Ernest Tuttle Rouse III, MD**
Instructor in Clinical Medicine (primary appointment)
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
MD Albert Einstein College of Med 1981
BS Mass Inst of Technology (MIT) 1977

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

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

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

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

**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, MD, BS1, MD1**
Professor of Medicine (primary appointment)
BS University of Florida 1993
MD University of Florida 1997
BS1 University of Florida 1993
MD1 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
PHD University of Padua 2005

**BS University of Palermo 1998**
MS University of Padua 1998

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

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

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

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

**Mehrdad Saeed-Vafa, MD**
Professor of Medicine (primary appointment)
MD School Not Listed 2000

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

**Sonny Satnam Saggar**
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

**Robert J Saltman, MD**
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1980
John Mark Samet, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Missouri 1968  
BS Washington & Lee 1964

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)  
BA Berry College 1974  
MD Harvard University 1978

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

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

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

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

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

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

Gregory Stephen Sayuk, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Psychiatry  
MD University of Texas Austin 2000

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

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

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

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

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

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

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

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

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

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

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

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

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

Joseph Michael Seria, MD  
Instructor in Clinical Medicine (primary appointment)  
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  
PHD Johns Hopkins University 2012  
BS Nankai University 2003

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

Rajiv Kumar Sharma  
Adjunct Instructor in Medicine (primary appointment)

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

David M. Sheinbein, MD  
Associate Professor of Medicine (Dermatology) (primary appointment)  
MD Saint Louis University 1995
Mounir M Shenouda, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN Alexandria University 1984

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

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

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)
MD University of Missouri 1981
BA Brandeis University 1977

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

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)
PHD Mayo Graduate School 2011
BS St Marys University 2005

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

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

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

Sanford S Sineff, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Brown University 1996
BS Harvard University 1992

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

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

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

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

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)
BA Washington Univ in St. Louis 1973
MD Rush University 1978

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

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

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)
MD University of Mississippi 1989
BS University of Mississippi 1983

Timothy W. Smith, MD, PHD
Professor of Medicine (primary appointment)
MD Duke University 1993
BS Duke University 1986
PHD Oxford University 1989

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

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

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

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

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

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)
BA University of Rochester 1967
MD Saint Louis University 1971

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

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

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

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

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

Nathan O. Stitziel, BA1, PHD, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Genetics
BA1 Washington Univ in St. Louis 1998
PHD University of Illinois Chicago 2006
MD University of Illinois Chicago 2006
BA Washington Univ in St. Louis 1998
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 1984
BA Stanford University 1976
Michael Gary Stone, MD
Instructor in Clinical Medicine (primary appointment)
MD Kansas City Univ Med/Bioscience 2008
Cristina Strong, PHD
Assistant Professor of Medicine (Dermatology) (primary appointment)
PHD University of Alabama 2002
Christopher Michael Sturgeon, PHD
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
PHD Nanjing Agriculture Univ 2006
BS Shihezi Medical College 1996
Xiong Su, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
BS Beijing University 1998
PHD Washington Univ in St. Louis 2004
Hamsa Subramanian, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
BS St. Joseph's Convent - Trichy 1986
UNKNOWN Thanjore Medical College 1990
Hani Suleiman, MD
Assistant Professor of Medicine (primary appointment)
MD Regensburg University 2007
Kaharu Sumino, MD, M PA, PHD
Associate Professor of Medicine (primary appointment)
MD Yokohama City Univ Sch Med 1992
M PA Johns Hopkins University 2008
PHD Yokohama City Univ Sch Med 1999
William Craig Summers, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Alabama 1994
MD University of AL Birmingham 1999
Rama Suresh, MBBS
Associate Professor of Medicine (primary appointment)
MBBS University of Madras 1993
Rudee Suwannasri, MD
Instructor in Clinical Medicine (primary appointment)
MD Chiang Mai University 1973
BS Chiang Mai University 1971
Bridge B Svancarek, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of MO Columbia 2006
BA Saint Louis University 2001
Elzbieta Anna Swietlicki, MS, PHD
Assistant Professor of Medicine (primary appointment)
MS Medical Academy Lodz 1975
PHD Medical Academy Lodz 1981
T
Lanesia K Tague, MD
Instructor in Medicine (primary appointment)
MD Northwestern University Med 2011
BS Northwestern University 2007
Mohammad Tahir, MD
Instructor in Clinical Medicine (primary appointment)
MD Dow Medical College Karachi 1976
Benjamin R Tan, MD
Associate Professor of Medicine (primary appointment)
BS University of the Philippines 1985
MD University of the Philippines 1990
David Tan, MD
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)
MIM Indiana State University 1999
MD Indiana State University 1995
BA Indiana State University 1991
Arnold S Tepper, MD
Instructor in Clinical Medicine (primary appointment)
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)
BS Cornell University 1991
PHD U of Colorado Health Sci Ctr 2003

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)
MD Saint Louis University 1960
BS Rockhurst College 1956

Mark S Thoelke, PHD, MD
Professor of Medicine (primary appointment)
BS University of Illinois 1982
PHD University of Illinois 1990
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)
BS Georgia Tech 2002
MD Mercer University Macon 2009

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

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

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)
BS State University of New York 1976
MD Washington Univ in St. Louis 1980

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

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

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
MS Tulane University 1976
PHD Johns Hopkins University 1982
BS Centenary College 1972
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)
PHD University of Chicago 1995
MD University of Chicago 1998
BS University of Illinois 1990

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)
MD Univ of Nebraska at Omaha 1976
BS University of Nebraska 1972

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)
M PH Duke University 1997
MD Duke University 1997
BS University of Texas Austin 1993

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

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

Robert C. Uchiyama, MD
Instructor in Clinical Medicine (primary appointment)
BS Stanford University 1976
MD Saint Louis University 1980

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

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

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

BA1 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)
BS University of Arizona 1995
MD University of AL Birmingham 2005
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

Rodrigo Vazquez Guillamet, MD
Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD University of Barcelona 2005

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

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

Emmanuel A Venkatesan, MBBS
Associate Professor of Clinical Medicine (primary appointment)
MBBS CMC, Vellore, India 1990

Aaron Martin Ver Heul
Instructor in Medicine (primary appointment)

Kiran Raj Vij, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
MD Indira Gandhi Medical College 1993

Ravi Vij, MBBS
Professor of Medicine (primary appointment)
MBBS Maulana Azad Medical College 1991
Anitha Vijayan, MD  
Professor of Medicine (primary appointment)  
MD University of the West Indies 1990

Dennis T Villareal, MD  
Adjunct Associate Professor of Medicine (primary appointment)  
MD CEBU Doctor's College of Med 1982  
BS University of San Carlos 1978

Alessandro Vindigni, MS, PHD  
Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MS University of Padua 1992  
PHD University of Padua 1995

John L Visconti, MD  
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
BS University of MO St Louis 1986  
MD Univ of Health Sciences KC 1990

Benjamin Allen Voss, BA1, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Saint Louis University 2003  
BA1 Saint Louis University 2003  
MD Creighton University 2007

Venkata Vosuri, MD  
Instructor in Medicine (primary appointment)  
MD Andhra University 2003

Stanley G Vriezelaar, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Simpson College 1977  
MD University of Iowa 1981

Harry Lee Wadsworth, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Texas Tech University 1983  
BS Texas Tech University 1978

Alex Handler Wagner, MS, PHD  
Instructor in Medicine (primary appointment)  
BS University of Iowa 2008  
MS University of Iowa 2012  
PHD University of Iowa 2014

Jason Cass Wagner, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD University of Colorado Denver 2001

Stanley M Wald, MD  
Associate Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1946

Instructor in Clinical Medicine (primary appointment)  
BA Saint Anselm College 1980  
MD Saint Louis University 1984

Laura A Wallace, MD  
Instructor in Emergency Medicine in Medicine (primary appointment)  
BA Indiana University Indianapoli 2017  
MD Ohio State University 2012

David A Walls, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Southern Illinois University 1982  
BA Southern Illinois University 1979

Sarah N. Walsh  
Instructor in Clinical Medicine (Dermatology) (primary appointment)

Matthew John Walter, MD  
Professor of Medicine (primary appointment)  
Professor of Genetics  
BS The American University 1990  
MD Saint Louis University 1995

Richard Coburn Walters, MD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
MD Washington Univ in St. Louis 1973  
BS University of Illinois 1969

Jean S Wang, MD, PHD  
Professor of Medicine (primary appointment)  
Professor of Surgery (General Surgery)  
MD Brown University 1998  
PHD John Hopkins University 2009

Lawrence L. Wang, MD, PHD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
MD Washington Univ in St. Louis 2001  
PHD Washington Univ in St. Louis 2001  
BA Harvard University 1993

Leyao Wang, M PH, PHD  
Instructor in Medicine (primary appointment)  
M PH Johns Hopkins University 2017  
PHD Fudan University 2017  
BA Nankai University 2017

Andrea Wang-Gillam, MD, BS1  
Associate Professor of Medicine (primary appointment)  
MD University of AR Little Rock 2001  
BS Ouachita Baptist University 1993  
BS1 Ouachita Baptist University 1993

Saiama Naheed Waqar, MD  
Associate Professor of Medicine (primary appointment)  
MD Aga Khan University 2001
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Courses

Courses include the following:

- M25 Medicine (p. 60)
- M27 Emergency Medicine (p. 67)

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 used in all fields of medicine, and the majority of the course work will be taught in small groups or through clinical experiences.

Credit 89 units.
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.
Credit 39 units.

M25 Medicine 710 Medicine Clerkship
The Medicine clerkship provides supervised study of patients in both inpatient and ambulatory settings. For the inpatient rotations, students are assigned as clinical clerks to patients admitted to the general medical teaching services of Barnes-Jewish Hospital and Veterans Administration Medical Center. For the outpatient rotations, students learn primary care in internal medicine and family medicine clinics at Barnes-Jewish Hospital or community-based practices. Teaching is provided by the chief of service, attending physicians, house officers, consultants, chief residents, and regularly scheduled conferences. Formal instruction is given regarding core internal medicine topics during the clerkship. A minimum of 12 weeks is required: three consecutive four-week rotations.
Credit 462 units.
M25 Medicine 714 Ambulatory Clerkship: Emergency Medicine
The Urgent Care area (UCA) serves as our site for the WUSM III Ambulatory Care Rotation. Three students at a time are assigned to this four-week rotation. Students will spend their first day in an orientation session learning suturing, ECG interpretation and airway management (including intubation skills) in hands-on laboratories. They will also review pelvic examinations and view an education video on domestic violence. On day two, they begin primarily evaluating non-emergent patients in Urgent Care and report directly to an Emergency Medicine attending. There are four hours of conferences per week (8-10 a.m. on Tuesday and Wednesday mornings) — attendance is mandatory. Discussions are currently underway to allow students to participate in helicopter ride-alongs with ARCH AirMedical Services. Students can expect to gain a wide range of skills in evaluating uncomplicated upper respiratory infections, urinary tract infections, sexually transmitted diseases, lacerations, eye problems, rashes, simple extremity trauma — in general, “bread and butter” medical/surgical problems. Students do a case presentation (15 min.) at the close of the block. Credit 154 units.

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

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

M25 Medicine 801 General Medicine Subinternship — BJH
The purpose of the General Medicine Subinternship is the development of expertise in the care of hospitalized patients in a well-supervised teaching environment. Subinterns act as their patients’ interns under the supervision of residents and attending physicians. Subinterns have the same on-call and admitting schedules as the interns on their teams and are assigned up to two new patients 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, scleroderma, vasculitis (ANCA-associated vasculitis, temporal arteritis, etc.), spondyloarthropathies (ankylosing spondylitis, psoriatic arthritis, reactive arthritis, etc.), and gout; there is less exposure to osteoarthritis and regional musculoskeletal problems. By working closely with a faculty member, fellows and medical residents, students become integral and active members of the rheumatology service for inpatient consultations and outpatient clinics at Barnes-Jewish Hospital. An emphasis is placed on the physical examination of joints and the musculoskeletal system, synovial fluid analysis, and interpretation of diagnostic tests and radiographs. Students attend two rheumatology conferences held weekly. A rotation limited to outpatient rheumatology is possible by prior arrangement with the course director.

M25 Medicine 807 General Medicine Subinternship — VA
The purpose of the General Medicine Subinternship at the VA Medical Center is to develop proficiency in the care of hospitalized patients on an internal medicine ward. Subinterns will have similar responsibilities as interns, with appropriate supervision by the attending and resident physicians. They have the same on-call/admitting schedules as the interns and participate in the same teaching conferences, but they do not take overnight call. Subinterns should admit at least two patients per call day, and they should be the first to evaluate the patients admitted to the medical service, except in emergencies. A diagnostic and therapeutic approach to the 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, psychosocial, 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 overnight 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 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 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 see 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 electrophysiology 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 consultations, etc.

M25 Medicine 834 Clinical Mentoring
This elective is designed to develop the teaching and mentoring skills of our fourth-year medical students through structured hospital sessions with first-year medical students. The primary format of the elective is observation of two first-year students during hospital sessions that span from September-April. During these hospital sessions the first-years perform the H&P, and the fourth-year mentors observe and offer constructive feedback. Each session will have an accompanying H&P written by the first-year student, which is to be thoroughly reviewed and critiqued by the fourth-year mentor. Additional practice sessions are optional and can be individually arranged between teams where the fourth-year mentor can assist the first-year student on personalized skills that are identified by their individualized learning goals. A small number (2-3/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 December/January to allow time off for interviews.

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

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

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

M25 Medicine 838 Medicine Consult Service
The focus of the Medicine Consult Service elective is the evaluation and management of medically complex patients admitted to the hospital on non-medicine services. The issues involved with perioperative management are particularly stressed. The student will function as a member of the consult service team. Duties will include performing initial consultations and follow-up care under the supervision of a Hospital Medicine attending and a senior medical resident. Attendance at Department of Medicine and division conferences is encouraged.

M25 Medicine 844 Hematology and Hemostasis
Activities include work-up of patients at Barnes-Jewish Hospital under the supervision of the hematology fellow and faculty; attendance at daily clinical rounds for 1-1.5 hours per day. These are staffed by a senior faculty in the Division of Hematology. In addition to evaluation of patients with hematologic disorders, the student will gain additional analytic skills including: 1. Interpret and integrate laboratory data in the diagnosis of anemia and pancytopenia; 2. Review peripheral blood and bone marrow morphology; 3. Analyze laboratory data for the diagnosis of thrombophilia and bleeding; 4. Discern the principles of blood banking and pheresis. The students will have the opportunity to follow patients with sickle cell disease and understand the treatment of this disorder. The student is expected to attend and participate in the weekly hematology conference.

M25 Medicine 847 Bone and Mineral Diseases
The course is designed to acquaint the student with the clinical, radiological and pathological manifestations and treatment of disorders of bone and mineral metabolism, including osteoporosis, Paget’s disease of bone, hyperparathyroidism, osteomalacia, and more rare disorders of bone development and homeostasis. The student will rotate through clinics of the
Division of Bone and Mineral Diseases, and see patients at Barnes-Jewish Hospital, Barnes-Jewish West County Hospital and Shriners Hospital for Children. Acquired and heritable bone diseases will be studied in the context of derangements of mineral homeostasis with emphasis on vitamin D and peptide hormone metabolism and skeletal formation and remodeling. The role of non-invasive methods for measuring bone mass in the diagnosis and management of skeletal diseases also will be stressed. Faculty and surgical staff 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 taught SPOTS before, 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 taught 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 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 and conferences and lectures in infectious diseases. The elective is designed to teach students the fundamentals of evaluating clinical infections in the outpatient setting. Students see patients under the supervision of a faculty member. Students 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
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 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 861 Oncology — Inpatient Consult Service
Medical Oncology is a complex subspecialty that is undergoing a rapid evolution as a result of new systemic treatment approaches that stem from biological insights into the nature of cancer. During the course of the elective, medical students will be able to interact with attending physicians and patients for bedside teaching and attend tumor boards and lectures focused on the care of patients with solid tumors. At the end of the rotation, the students will appreciate the principles of our approach to cancer patients and should have gained insights into the evaluation and
management of patients with newly diagnosed malignancies. The role of surgery, radiation, and systemic treatment will also be an important theme, as well as the conduct of clinical research in this patient population. Students will also learn to care for hospitalized patients suffering from complications from their cancer or from toxicities due to treatments. Oncologic emergencies will be covered. Issues such as palliative care treatment options and end-of-life decision making will be explored as well.

M25 Medicine 867 Medical Intensive Care
The Medical Intensive Care Unit Elective is designed to introduce senior medical students to cognitive and procedural aspects of critical care medicine. Students will be expected to learn the basic pathophysiology and treatment approaches to respiratory failure, shock states and metabolic derangements. Participation in procedures will be encouraged as available. Dynamics of difficult conversations with patients and family members will also be modeled and discussed. Clinical responsibilities will occur as a part of a call team and students will be expected to participate in admissions and daily follow-up on the cycle of their assigned call team. Teaching will occur via didactic lectures on weekdays and formal patient discussions on rounds.

M25 Medicine 869 Palliative Medicine
The Palliative Medicine elective will focus on the care of patients with life-threatening or debilitating illness throughout the course of their care. Skills in symptom management, communication, and interdisciplinary team-based care will be the focus. Students will spend the majority of their time on the BJH Palliative Care Service. Based on the individual student’s interest, there may also be opportunities to work with the BJH Hospice Team and the St. Louis Children’s Hospital Palliative Care Service. Students wishing to work with either team should contact the Course Director and Elective Contact as well as the instructors of the appropriate team, with as much advance notice as possible, as trainee spots are very limited for both. While in the hospital, students will be responsible for seeing patients upon initial assessment and delivering follow-up care with the team. Patients will be seen for both end-of-life care as well as symptom management. Students will learn to assess and treat refractory symptoms and to participate in complicated advanced care planning. Students will attend interdisciplinary team meetings, and they may participate in conversations about goals of care and coping with bad news. They may also make home visits with hospice care providers, if desired. Emphasis will be placed on observing and understanding the psychosocial and spiritual needs of the patients as well as the impact of the burden on caregivers. In addition, students will be expected to lead biweekly presentations/group discussions on selected aspects of Palliative Medicine with the BJH Palliative Care team.

M25 Medicine 870 Endocrinology, Diabetes, and Metabolism
In general, the four-week rotation will be divided into two weeks of general endocrinology and two weeks of diabetes. Students taking this elective will perform consultations with fellows and faculty on the inpatient services at Barnes-Jewish Hospital, and they will also see patients with endocrine and metabolic diseases in the Outpatient Consultation. They will present these cases daily on teaching rounds. They will also participate in case conferences and seminars on a weekly basis. Extensive interaction with patients with diabetes and a diabetes education program are included, as is involvement with patients with thyroid, pituitary, adrenal, gonad, metabolic bone disease, and lipid disorders. Ample opportunities will be provided for discussions of patient problems with the members of the division. A variety of outpatient clinics are offered in the division; interested students should speak with the fellows and faculty members to customize the learning experience to match their career goals. At the end of the rotation, it is expected that students will have the ability to initiate the inpatient and outpatient management of diabetes, including insulin dosing and glucose monitoring, and evaluate and treat a variety of endocrine disorders, including but not limited to thyroid, pituitary, and adrenal disease. Students will learn to perform effective inpatient and outpatient consultations.

M25 Medicine 871 Oncology — Outpatient
Students will gain experience in the initial treatment of newly-diagnosed malignancies and the outpatient management of oncology patients. Participation in multidisciplinary tumor conferences will stress a combined-modality approach to management, incorporating chemotherapy, 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 overview by an experienced electrocardiographer. There will also be didactic sessions covering infarction, ventricular hypertrophy, heart block, arrhythmias, and aberrant conduction.

M25 Medicine 879 Pulmonary Clinic for the Underserved
Clinical setting: Outpatient clinic dedicated to providing pulmonary specialty care to patients who are predominantly uninsured or who rely upon public assistance such as Medicaid. Student role: Students independently interview and examine patients and present findings to the attending; tests and imaging are reviewed, and provider and attending develop plan. Common problems/diseases: Asthma, COPD, sarcoidosis, lung cancer, and obstructive sleep apnea are commonly seen. Also, patients are referred for evaluation of abnormal x-rays and for symptoms such as dyspnea. Primary learning objectives: to understand and practice important history and exam skills in pulmonary medicine: symptoms, smoking history, work and environmental exposures, and important pulmonary physical exam findings; to understand the basics of pulmonary function tests, chest imaging, and methods for tissue sampling; and to understand the basis of treatment of common pulmonary disorders. Conferences: There is no conference associated with this clinic, but students may attend the usual Thursday morning
Medicine Grand Rounds at 8:00 a.m. and the Pulmonary Grand Rounds at 11:00 a.m. if the subject matter is appropriate.

**M25 Medicine 880 Pulmonary Medicine — Barnes-Jewish Hospital**
Students will acquire skills in the evaluation and management of patients with pulmonary diseases and in the interpretation of pulmonary function tests. They will gain experience in outpatient Lung Center and attend regular pulmonary and critical care medicine conferences.

**M25 Medicine 884 Bone Marrow Transplantation and Stem Cell Biology**
Intense four-week clinical rotation exposing interested fourth-year medical students to the clinical world of bone marrow transplantation and to the basic science of hematopoiesis, leukemia, stem cell biology, and gene and cellular therapy, including chimeric antigen receptor (CAR) T-cell therapies. Students will be primarily responsible for the care of autologous and allogeneic BMT recipients and those patients being treated for a variety of hematologic malignancies such as AML, ALL, multiple myeloma, and non-Hodgkin's lymphoma. In addition, they will be exposed to methods of stem cell harvest, cryopreservation, and immunophenotyping. This rotation plans to provide motivated students with an ideal mix of clinical medicine and basic science.

**M25 Medicine 887 Clinical Cardiovascular Medicine**

**M25 Medicine 890 Clinical Nephrology**
Students rotate through inpatient and outpatient experiences to gain exposure to all facets of nephrology. They will spend time the majority of their time on an inpatient consult service, gaining exposure to acute and chronic renal failure, glomerulonephritis, and electrolyte disorders. During this time, they will serve as a fully integrated member of the consult team, evaluating underlying causes of kidney disease, performing diagnostic procedures, formulating management plans, and engaging in decision-making discussions with primary services and families. In addition, students will have the opportunity to experience ICU nephrology, transplant nephrology, the various CKD clinics, and all modalities of dialysis, including in-center, home, and peritoneal dialysis.

**M25 Medicine 890A Kidney Transplant**
Students participating in this elective will gain exposure to end-stage renal disease and the treatment options, examine kidney transplantation as the most valuable option, learn about immunosuppression, and gain exposure to infectious diseases like CMV, BK, and adenovirus, which are commonly seen in patients who have had a kidney transplant (and not often seen otherwise).

**M25 Medicine 893 Adult Allergy and Clinical Immunology**
Students will participate in the outpatient Allergy Clinics located in Barnes-Jewish Hospital Center for Advanced Medicine, Barnes-Jewish West County, and Center for Advanced Medicine South County. Students will participate in allergy skin testing, pulmonary function testing, and drug desensitization. They will have the opportunity to see patients with allergic rhinitis, asthma, hives, food allergy, immunodeficiency, eosinophilic esophagitis, hereditary angioedema, mastocytosis, contact allergic dermatitis, eczema, and more. They can attend allergy conferences on Thursday morning. Students have the option to follow a fellow and see inpatient consults at Barnes-Jewish Hospital.

**M25 Medicine 900 Research Elective — Internal Medicine**
Research opportunities may be available. If interested, please contact the Department of Internal Medicine.

**M27 Emergency Medicine**

**M27 EMED 801 Emergency Medicine Subinternship**
This rotation offers practical experience in the evaluation and management of acutely sick and injured patients. Students will function as subinterns, initially evaluating their assigned patients and then developing a plan for further diagnostic studies and therapy. They will report to a senior-level resident or an attending physician. The student can expect the opportunity to perform a wide variety of procedural skills, such as suturing, splinting, 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 became 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.