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

Website: https://internalmedicine.wustl.edu

Research

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

M25 Medicine 900

Dana R. Abendschein, PhD
9924 Clinical Sciences Research Building
Phone: 314-362-8925

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

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

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

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

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

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

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

Richard W. Gross, MD, PhD
4525 Scott Avenue, East Building
Phone: 314-362-2690

Lipid mediators of signal transduction in the cardiovascular system; characterization of regulatory mechanisms responsible for the liberation of lipid second messengers during cellular activation; roles of phospholipases in mediating the metabolic syndrome and end-organ tissue damage.

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

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

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

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

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

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

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

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

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

Katherine Ponder, MD
8818 Cancer Science Research Building
Phone: 314-362-5188
kponder@wustl.edu

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

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

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

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

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

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

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

Nicholas O. Davidson, MD
John E. and Adaline Simon Professor of Medicine
Chief, Division of Gastroenterology

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

Bradley A. Evanoff, MD, MPH
Richard A. and Elizabeth Henby Sutter Chair in Occupational, Industrial, and Environmental Medicine
Chief, Division of General Medical Sciences

Victoria J. Fraser, MD
Adolphus Busch Professor of Medicine and Chairman

Daniel M. Goodenberger, MD
Professor of Medicine
Chief, Veteran's Administration

Richard W. Gross, MD, PhD
Professor of Medicine
Chief, Division of Bioorganic Chemistry and Pharmacology

Michael J. Holtzman, MD
Selma and Herman Seldin Professor of Medicine
Chief, Division of Pulmonary and Critical Care Medicine

Benjamin D. Humphreys, MD, PhD
Joseph P. Friedman Associate Professor
Chief, Division of Nephrology

Samuel Klein, MD
William H. Danforth Professor of Medicine and Nutritional Science
Chief, Division of Geriatrics and Nutritional Sciences

Elaine M. Majerus, MD, PhD, MD
Professor of Medicine
Interim Chief, Division of Hematology

Douglas L. Mann, MD
Tobias and Hortense Lewin Professor of Medicine
Chief, Division of Cardiology

Christine Pham, MD
Professor of Medicine
Chief, Division of Rheumatology

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
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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

Patrick 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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MD New York University 1975

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Professor of Medicine (primary appointment)
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Associate Professor of Cell Biology and Physiology
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Barry K Abramson, MD  
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BS American University of Beirut 1972

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Susan R Adams, MD  
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MD Damascus U. Medical School 2006

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Instructor in Clinical Medicine (primary appointment)

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MD Damascus University School of 2007

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BA Harvard University 1956  
MD Harvard University 1960

Osama Altayar, MD  
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Jeffrey Jay Atkinson, MD, BS1, MD1
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MD Hahnemann University 1994
BS1 Loyola College 1990
MD1 Hahnemann University 1994

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B

Hilary M Babcock, MPH, MD
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Richard G. Bach, MD, MS
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MD New York University 1984
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MS New York University 1980

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Maria Quintos Baggstrom, MD
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Donald M Bailey
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Faris Adam Bakeer, MD  
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Gregory Eden Baker, MD  
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Megan Tierney Baldridge, MD, PHD  
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Fred J Balis, MS, MD  
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MS Cornell University 1985  
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BS University of Vermont 1981

Clarence William Balke, MD  
Professor of Medicine (primary appointment)  
MD Temple University 1981  
BS Haverford College 1975

Wenners Ballard, MD  
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MD Howard University 2015

David Ban, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BA Kalamazoo College 1976  
MD University of Oregon 1980

James William Banks, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Marshall University 1984

Abraham Barake, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BS University of Maryland 1976  
MD School Not Listed 1983

Thomas J Baranski, MD, PHD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Developmental Biology  
MD Washington Univ in St. Louis 1992  
BS Univ of Wisconsin Madison 1985  
PHD Washington Univ in St. Louis 1992

Rachel Hannah Bardowell, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of Miami 2009

Philip M Barger, MD  
Associate Professor of Medicine (primary appointment)  
MD Case Western Reserve Univ 1989

Ernie-Paul Barrette, MD, MA  
Associate Professor of Medicine (primary appointment)  
MD Harvard University 1990  
BS University of Rhode Island 1982  
MA Harvard University 1984

Thomas Joseph Bartholet, MD, MD1  
Instructor in Clinical Medicine (primary appointment)  
MD Dartmouth College 1992  
BS Georgetown University 1990  
MD1 Brown University 1994

Nancy Lee Bartlett, MD, MS  
Koman Professor of Medical Oncology in Medicine (primary appointment)  
MD Washington Univ in St. Louis 1986  
MS Mass Inst of Technology (MIT) 1979  
BS Stanford University 1978

Robert W Barton, PHD, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
PHD University of Chicago 1967  
BS University of Chicago 1962  
MD University of Chicago 1967

Jeannine Basta, PHD  
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BS Lindenwood University 2006  
PHD Saint Louis University 2012

Luis Francisco Zirnberger Batista, PHD  
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Assistant Professor of Developmental Biology  
BS University of SAO Paulo 2003  
PHD University of SAO Paulo 2008

Brian John Bausano, MD  
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MD Baylor University 2004

Frederick D Bauschard, MD  
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)  
BA Allegheny College 1964  
MD University of Pittsburgh 1968

Michael D Bavlsik, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BS Seton Hall University 1987  
MD Rutgers University 1991
<table>
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<tr>
<th>Name</th>
<th>Position</th>
<th>Institution</th>
<th>Year</th>
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<tbody>
<tr>
<td>Susan Joy Bayliss, MD</td>
<td>Professor of Medicine (Dermatology) (primary appointment)</td>
<td>MD University of Texas Galveston 1974</td>
<td>1974</td>
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<tr>
<td></td>
<td>Professor of Pediatrics</td>
<td>BA University of Texas Austin 1970</td>
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<tr>
<td>Emily Nicole Beck, MD</td>
<td>Instructor in Emergency Medicine in Medicine (primary</td>
<td>MD University Texas San Antonio 2015</td>
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<td>BS University of Texas Austin 2010</td>
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<tr>
<td>Richard C Bell, MD</td>
<td>Instructor in Clinical Medicine (Dermatology) (primary</td>
<td>BA Northwestern University 1984</td>
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<td>MD Washington Univ in St. Louis 1988</td>
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<tr>
<td>William Waite Benedict, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1975</td>
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<td>BS University of Illinois 1971</td>
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<td>Michael Charles Bennett, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Vanderbilt University 2010</td>
<td>2010</td>
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<tr>
<td>Susan Berdy, MD</td>
<td>Assistant Professor of Clinical Medicine (primary</td>
<td>BA Brown University 1980</td>
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<td>appointment)</td>
<td>MD Saint Louis University 1984</td>
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<tr>
<td>Daniel Ralph Berg, MD</td>
<td>Assistant Professor of Clinical Medicine (primary</td>
<td>MD Washington Univ in St. Louis 2000</td>
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<td>BS Brown University 1994</td>
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<tr>
<td>Michael A Berk, MD</td>
<td>Professor of Clinical Medicine (primary appointment)</td>
<td>MD Indiana University Bloomington 1979</td>
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<td>BA Northwestern University 1974</td>
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<tr>
<td>Carlos Bernal-Mizrachi, MD</td>
<td>Philip E &amp; Carolyn E Cryer Professor of Medicine (primary</td>
<td>MD Universidad del Valle Med Sch 1990</td>
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<tr>
<td>Keith A Bernstein, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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MS Banaras Hindu University 1992

Valerie Blanc, PHD, MS
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MD Saint Louis University 1981

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BS Nebraska Wesleyan University 2012
MD University of Nebraska 2016

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Michael Bolger
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MD University of the Witwatersra 1979

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PHD Cornell University 1998
MD Cornell University 1999
PHD1 Cornell University 1998
BS University of Rhode Island 1991

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BS Muhlenberg College 1979

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

La dyssey Jean Bowman, PHD
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PHD St Louis College of Pharmacy 2005

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

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

Alan C Braverman, MD
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Medicine (primary appointment)
BA University of MO Kansas City 1984
MD University of Missouri 1985

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

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

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

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

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

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

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

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

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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  

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

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Instructor in Medicine (primary appointment)  
MD Washington Univ in St. Louis 2016  

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

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

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

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MD Wright State University 2016  
BS Miami University 2012  

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

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

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

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

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  

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

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MD School Not Listed 1964  

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BS Rhodes College 2007  
PHD Washington Univ in St. Louis 2014  

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MD Washington Univ in St. Louis 1977
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PHD University of Louisville 2003
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PHD ZHEJIANG UNIVERSITY 2003
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BS1 Yale University 1995
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BS Yale University 1995

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MD Tulane University 2005

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MD Temple University 2011

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MD University of Missouri 2009
MD Loyola University Chicago 2013

Kim David Colter, MS, MD
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BS MO S&T (formerly UofMO Rolla) 1973

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)
BS Washington Univ in St. Louis 1999
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Matthew Cooper, PHD
Assistant Professor of Medicine (primary appointment)
PHD University of Surrey 2008
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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

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Instructor in Clinical Medicine (primary appointment)
BA Saint Louis University 1974
MD Saint Louis University 1977

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Assistant Professor of Pediatrics
BA Yale University 2005
MD Washington Univ in St. Louis 2010

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BS Louisiana St University 2000
MD Washington Univ in St. Louis 2004

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

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

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

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

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

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Associate Professor of Clinical Medicine (primary appointment)
BA Harvard University 1960
MD Harvard University 1965

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

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Assistant Professor of Medicine (primary appointment)
MD Universidad Autonoma de Madrid 2009

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

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

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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

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Associate Professor of Medicine (primary appointment)
MS San Francisco St University 1998
BS Williams College 1995
MD Saint Louis University 2005

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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

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

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

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

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Instructor in Clinical Medicine (primary appointment)
MD Howard University 1989
BS Howard University 1985

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

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

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

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Instructor in Medicine (primary appointment)
BS Northeast Ohio Medical U 2012
MD Northeast Ohio Medical U 2016

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Instructor in Clinical Medicine (primary appointment)
MD Sindh Medical College 1987

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

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Assistant Professor of Medicine (primary appointment)  
MD Columbia University 2016

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

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

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

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

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Professor of Medicine (primary appointment)  
Professor of Anesthesiology  
Professor of Radiology  
BS University of Puerto Rico 1977  
MD University of Puerto Rico 1981

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

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

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

Thomas Edward Davis  
Instructor in Clinical Medicine (primary appointment)

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

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

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Assistant Professor of Medicine (primary appointment)  
Associate Professor of Biostatistics  
BA Stanford University 1991  
MD University of Texas Southwest 1996

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

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

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Assistant Professor of Medicine (primary appointment)  
MBBS Jawaharlal Institute of PostGr 2004

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

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

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

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Instructor in Medicine (primary appointment)  
MD Southeast Missouri St Univers 2001

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Associate Professor of Medicine (primary appointment)  
Associate Professor of Pathology and Immunology  
BS Willamette University 1999  
PHD Baylor University 2005

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Assistant Professor of Medicine (primary appointment)  
BS Miami University 2008  
MD University of Louisville 2012

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UNKNOWN School Not Listed 1991
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Instructor in Medicine (primary appointment)
MBCHB Misurate University 2006

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

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Virginia E and Sam J Golman Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
Professor of Pediatrics
MD University of Rochester 1980
PHD University of Rochester 1980
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Associate Professor of Medicine (primary appointment)
MD Saint Louis University 1983
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PHD University of Illinois 1999

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MPH Saint Louis University 2008

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MA University of Rhode Island 1990
PHD Intrnl Academy of Philosophy 1992
D SC University of Vienna 1997

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BS Mount Holyoke College 1997
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BS University of Texas Austin 1978

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MD University of Arkansas 1975

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

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

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

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

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)
MD Saint Louis University 1995
BS Georgetown University 1989

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)
BA Cornell University 1981
MD Saint Louis University 1985

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

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

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

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

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

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

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

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

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

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

Deborah Frenchie, MD
Instructor in Clinical Medicine (primary appointment)
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)
MD University of Utah 1994
BA Brigham Young University 1990

Steven Daniel Funk, PHD
Instructor in Medicine (primary appointment)
BS University of Louisiana 2005
PHD Louisiana St University 2013
Suzanne Furesz
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Gary Gaddis, PHD, MD
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PHD Indiana State University 1984
MD Indiana University School of M 1986

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

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

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

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BS University of MO Columbia 1990
DOST Kansas Cty Univ Med/Bioscience 1994

Sumanth Gandra, MA, MD
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BA Osmania Medical College 2014
MA Eastern Kentucky University 2007
MD University of Chicago 2010

Jane M. Garbutt, MBCHB, MHS
Professor of Medicine (primary appointment)
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MBCHB Bristol University 1977
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John A Garcia, MBA, MD
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MBA University of MO St Louis 1998
MD University of Illinois 1990
BA Carleton College 1985

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Instructor in Clinical Medicine (Dermatology) (primary appointment)
MD Howard University 1985
BS Howard University 1983

Francisco J Garriga, MD
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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
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MPH Columbia University 2002

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MD Iran Univ of Medical Sciences 2001

Bria D Giacomino, MD
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Matthew John Gibfried, MD
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G
PHD Iowa State University 1985

Margo Renee Girardi, MD
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Mary Jo Gorman, MBA, MD
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MBA Washington Univ in St. Louis 1996
MD Southern Illinois University 1984
BA Saint Louis University 1981

Ramaswamy Govindan, MD
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MD University of Madras 1986

Siddhesh Gowda, MD
Professor of Biochemistry in Medicine (Dermatology) (primary appointment)
Professor of Developmental Biology
BS Iowa State University 1971
PHD Univ of Wisconsin Madison 1975

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MD University of MO Columbia 1975

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MS Ohio State University 2014

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BA University of Vermont 1982

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BS1 University of Winnipeg 2002

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MD Washington Univ in St. Louis 1994

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BA Illinois Wesleyan University 1984

Richard Warren Gross, PHD, AB, MD
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Professor of Chemistry
Professor of Developmental Biology
PHD Washington Univ in St. Louis 1982
AB Columbia University 1972
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Instructor in Clinical Medicine (primary appointment)
BS University of Pittsburgh 1988
MD University of Pennsylvania 1992

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

Vyjanthanath R. Gunasingham, MD
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BS School Not Listed 1975
MD School Not Listed 1982

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

Anjali Gupta, MD
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MD Univ Texas Health Science Ctr 2015
BS Johns Hopkins University 2010

Maria Gurrieri, DIP, MD
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DIP School Not Listed 1982
MD Catholic University 1989

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

Alexandra Gutierrez, MD, M PH
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BS Brown University 1996
MD Case Western Reserve Univ 2000
M PH Harvard University 2006

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

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

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

Jennifer Christine Hagopian
Adjunct Instructor in Medicine (primary appointment)

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

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

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

Ira McCarthy Hall, PHD
Associate Professor of Medicine (primary appointment)
Associate Director of the Genome Center
<table>
<thead>
<tr>
<th>Name</th>
<th>Title, Institution/Primary Appointment (MD, DO, PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>John T. Milliken</td>
<td>Associate Professor of Genetics, BS University of CA Berkeley 1998, PHD Cold Spring Harbor Laboratory 2003</td>
</tr>
<tr>
<td>Yasir A Hamad, MD</td>
<td>Assistant Professor of Medicine (primary appointment), MD University of Juba 2004</td>
</tr>
<tr>
<td>Stephanie M Hammer, MD</td>
<td>Instructor in Clinical Medicine (primary appointment), MD Chicago St University 1995</td>
</tr>
<tr>
<td>Janice L Hanson, PHD</td>
<td>Professor of Medicine (primary appointment), PHD University of Michigan 1984</td>
</tr>
<tr>
<td>Zahirul Haque</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
</tr>
<tr>
<td>Annie Chamern Harmon, PHD, MS</td>
<td>Assistant Professor of Medicine (primary appointment), BA University of Evansville 2004, PHD University of Michigan 2016, MS Missouri College 2010</td>
</tr>
<tr>
<td>Lydia-Ann Lynell Harris, PHD</td>
<td>Adjunct Assistant Professor of Medicine (primary appointment), PHD State University of New York 2011</td>
</tr>
<tr>
<td>Justin C Hartupee, MD, PHD</td>
<td>Assistant Professor of Medicine (primary appointment), MD Case Western Reserve Univ 2010, PHD Case Western Reserve Univ 2008</td>
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<tr>
<td>Rim Hasan, MD</td>
<td>Instructor in Medicine (Pending Dean’s Approval) (primary appointment), MD Damascus University, School of 2011</td>
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<tr>
<td>Syed Hasan, MBBS</td>
<td>Instructor in Medicine (primary appointment), MBBS Sindh Medical College 2013</td>
</tr>
<tr>
<td>Jeffrey A Haspel, PHD, MD</td>
<td>Assistant Professor of Medicine (primary appointment), PHD New York U. School of Medicine 2001, MD New York U. School of Medicine 2003, BS Binghamton University 1994</td>
</tr>
<tr>
<td>Anisa Hassan, MD</td>
<td>Instructor in Clinical Medicine (primary appointment), MD Dow Medical College Karachi 1976</td>
</tr>
<tr>
<td>Thomas F Hastings, MD</td>
<td>Instructor in Clinical Medicine (primary appointment), MD University of Missouri 1986, BA Rockhurst College 1981</td>
</tr>
<tr>
<td>Krysta Lynn Heath, MD</td>
<td>Instructor in Medicine (primary appointment), MD University of AR Med Sciences 2011</td>
</tr>
<tr>
<td>James N Heins, MD</td>
<td>Professor of Clinical Medicine (primary appointment), Adjunct Professor of Medicine, BA University of Louisville 1957, MD University of Louisville 1961</td>
</tr>
<tr>
<td>Laura Elaine Heitsch, MD</td>
<td>Assistant Professor of Emergency Medicine in Medicine (primary appointment), Assistant Professor of Neurology, MD University of Illinois 2005, BS University of Illinois 1999</td>
</tr>
<tr>
<td>Jason M Held, PHD</td>
<td>Assistant Professor of Medicine (primary appointment), Assistant Professor of Anesthesiology, BS Duke University 2001, PHD University of San Francisco 2006</td>
</tr>
<tr>
<td>Jeffrey P. Henderson, MD, PHD</td>
<td>Associate Professor of Medicine (primary appointment), 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</td>
</tr>
<tr>
<td>Kristina Louise Henderson, MD</td>
<td>Assistant Professor of Clinical Medicine (primary appointment), BS Univ of Wisconsin Madison 1993, MD University of Minnesota 1998</td>
</tr>
<tr>
<td>Kristina Louise Henderson, MD</td>
<td>Instructor in Clinical Medicine (primary appointment), BA Saint Louis University 1982, MD Saint Louis University 1991</td>
</tr>
<tr>
<td>Daniel Robert Herleth</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
</tr>
<tr>
<td>Cynthia Hermann, M ENG, MD</td>
<td>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</td>
</tr>
<tr>
<td>Leonel F. Hernandez Aya, MD</td>
<td>Assistant Professor of Medicine (primary appointment), MD Universidad Nacional de Columb 2007</td>
</tr>
<tr>
<td>Cynthia Joan Herrick, MD</td>
<td>Assistant Professor of Medicine (primary appointment), BS Princeton University 2002, MD Washington Univ in St. Louis 2006</td>
</tr>
<tr>
<td>Andreas Herrlich, MD, PHD</td>
<td>Associate Professor of Medicine (primary appointment), MD Freie University 1994, PHD Freie University 1998</td>
</tr>
<tr>
<td>Karin Hickey, MD</td>
<td></td>
</tr>
</tbody>
</table>
Assistant Professor of Medicine (primary appointment)
MD Luliu Hatieganu U of Med 2007

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

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

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

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

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

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

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

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

Sandra S Hoffmann, MD
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BA University of Kansas 1972
MD University of Kansas 1976

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BS Northwestern University 2006
MD University of Minnesota 2010

MA University of Wisconsin 2013

Melissa Louise Hollie
Instructor in Clinical Medicine (primary appointment)

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

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

Neal Holzum
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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MD University of Cincinnati 2007
Jacqueline Howard, UNKNOWN  
Instructor in Clinical Medicine (primary appointment)  
UNKNOWN School Not Listed 1995

David Thomas Howell  
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Randall A Howell, MD  
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MD Kansas State University 1978  
BS Kansas State University 1974

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

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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

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

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PHD University of Utah 1986  
BS School Not Listed 1970  
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MD New York University 2008  
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MD University of Missouri 1982  
BA Saint Louis University 1977

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

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BS Rutgers University 1987  
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MD Northwestern University Med 1998
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ME Carnegie Mellon University 1979
BS Washington Univ in St. Louis 1977

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BS Rhodes College 1981
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BS Indiana University Purdue 2011
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MD University of Iowa 1988
BS University of Iowa 1984

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PHD Northwestern University 1998
MD Northwestern University 1999

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BS1 Morehouse College 1996

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MD Saint Louis University 1997

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MD Harvard University 1987

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MD Duke University 2004
BA Princeton University 2000

K

Brad S Kahl, MD
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BS University of Wisconsin-Madison 1989
MD Tufts University 1994

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MD University of North Carolina 2006

Sona Sharad Kamat
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MD University of Pennsylvania 1994

Deborah Shipley Kane, MD
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BA University of MO Kansas City 2006
MD University of MO Kansas City 2006

Patricia F Kao, BE, MD, MS2
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BE Princeton University 1994
MD Case Western Reserve Univ 2001
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Robert S Karsh, MD
Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1952
BA Washington Univ in St. Louis 1951

Andrew M. Kates, MD
Professor of Medicine (primary appointment)
BS Tufts University 1990
MD Tufts University 1994

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BA Brown University 1986

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BA Washington Univ in St. Louis 1959
MD Washington Univ in St. Louis 1963

Brandon David Kayser, PHD
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PHD University of Southern Calif 2014
Elizabeth Jane Keath, PHD
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BA University of MO St Louis 1978
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Timothy Lee Kella, MD
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MD Saint Louis University 1982

Jesse Wade Keller, MD
Assistant Professor of Medicine (primary appointment)
MD Johns Hopkins University Med 2009
BS University of Tulsa 2005

Daniel P Kelly, MD
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MD University of Illinois 1982
BS University of Illinois 1978

Peggy Lynn Kendall, MD
Associate Professor of Medicine (primary appointment)
MD University of Texas Dallas 2019

Charlotte J Kennedy, PHD, MD
Assistant Professor of Clinical Medicine (primary appointment)
PHD Washington Univ in St. Louis 1992
MD Washington Univ in St. Louis 1992
BA Agnes Scott College 1984

Joseph L Kenzora, MD
Associate Professor of Medicine (primary appointment)
MD University of New Mexico 1975

Martin Hurley Kerrigan, MD
Assistant Professor of Medicine (primary appointment)
BS Saint Josephs University 2001
MD Jefferson Medical College 2005

Ahmed Sultan Khan
Adjunct Instructor in Medicine (primary appointment)

Charbel Chafic Khoury, MD
Assistant Professor of Medicine (primary appointment)
BS American University of Beirut 2004
MD American University of Beirut 2008

Thomas B Kibby, MD, MPH
Instructor in Emergency Medicine in Medicine (primary appointment)
MD Eastern Virginia Med School 1979
MPH North Carolina School of the 1988

Daniel Jason Kichura, MD
Instructor in Medicine (primary appointment)
BA Indiana University 2008
MD Israel Institute of Technology 2012

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Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1993

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Assistant Professor of Clinical Medicine (primary appointment)
AS Long Beach City College 1976
MD University of California 1990
BA University of California 1985

Kenneth Richard Killian, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1984
BS Saint Louis University 1980

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

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

Miriam Yunhee Kim, MD
Instructor in Medicine (primary appointment)
MD Seoul National University 2008
BS Yonsei University 2004

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Instructor in Clinical Medicine (Dermatology) (primary appointment)
MD Washington Univ in St. Louis 2001
BA Southern Methodist University 1997

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

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

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

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MS University of Kansas 2001  
BS Drury College 1999  
PHD University of Kansas 2004

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

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Instructor in Clinical Medicine (primary appointment)  
MD Jefferson Medical College 2008

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BN Southern Illinois University 1981  
MSN University of Texas Austin 1987  
BA Southern Illinois University 1979  
PHD University of MO St Louis 2008

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Professor of Medicine (primary appointment)  
MD Harvard University 1960  
BA Yale University 1956

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

Samuel Klein, MD, MS  
Danforth Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
MD Temple University 1979

MS Mass Inst of Technology (MIT) 1984  
BA Brandeis University 1974

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BA Washington Univ in St. Louis 1980  
MD University of Missouri 1984

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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)  
MD Saint Louis University 2002

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Ismail Kola, UNKNOWN, PHD  
Adjunct Professor of Medicine (primary appointment)  
UNKNOWN Rhodes College 1982  
BS Rhodes College 1982  
PHD School Not Listed 1985

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Professor of Medicine (primary appointment)  
MD University of Rochester 1983  
BS US Military Academy 1979

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BS Stanford University 1974  
MD Washington Univ in St. Louis 1978

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MBBS Guntur Medical College 1989

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BA University of MO Kansas City 1995  
MD University of MO Kansas City 1995

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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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Professor of Biomedical Engineering
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MS California Institute Technolo 1972

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BA Drake University 1974

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PHD Washington Univ in St. Louis 1980  
BS Stanford University 1974  
MD Washington Univ in St. Louis 1980

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Instructor in Medicine (primary appointment)  
BS University of Michigan 2011  
MD Washington Univ in St. Louis 2016

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PHD Loyola University Chicago 1998  
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Assistant Professor of Medicine (primary appointment)  
PHD Chinese Academy of Med Science 1999

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MD State Univ of NY Buffalo 1999

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Assistant Professor of Medicine (primary appointment)  
M PH Fudan University 1999  
PHD Texas Tech University 2006  
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BA Cornell University 1998  
MD University of Maryland 2004  
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BS Dickinson College 2009  
MD Louisiana St Univ Hlth Sci 2016

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MD State Univ of NY Buffalo 1993

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Assistant Professor of Medicine (primary appointment)  
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PHD Duke University 2006

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

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BA Harvard University 1990  
MD University of Iowa 1994

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Associate Professor of Medicine (primary appointment)  
Associate Professor of Obstetrics and Gynecology  
BS University of Illinois 2003  
MD Emory University 2007

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MA Reformed Theological Seminary 2001  
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BS Duke University 1997

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BS Univ of Wisconsin Milwaukee 1981  
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MD State University of New York 1977  
BA State University of New York 1973

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Professor of Medicine (primary appointment)  
MD National Autonomous U of Mex 1980  
MD University of New Mexico 1990  
BA University of New Mexico 1986
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MD University of Illinois Chicago 2011
BS Northwestern University 2007

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Assistant Professor of Medicine (primary appointment)
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Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2013

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Assistant Professor of Medicine (primary appointment)
MD Saint Louis University 2009

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Assistant Professor of Medicine (primary appointment)
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BA Washington Univ in St. Louis 2003

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MD Shanghai Medical University 1984
MS Shanghai Medical University 1987

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

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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
PHD University of Michigan 2007
MS Wayne State University 1996

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

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

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Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
MS University of Toronto 1979
BS University of Western Ontario 1977

MD McGill University 1983

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BA University of MO Kansas City 1985
MD University of MO Kansas City 1985

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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

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Professor Emeritus of Medicine (primary appointment)
Professor Emeritus of Psychiatry
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MBBS University of Adelaide 1963

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

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Instructor in Clinical Medicine (primary appointment)
MD University of MO Kansas City 2008

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MD University of Rochester 1972

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MLS Indiana University Bloomington 1983
MD University of Iowa 1999
BA Indiana University Bloomington 1982

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

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Instructor in Clinical Medicine (primary appointment)

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

Patrick G. Lyons Jr, MD
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MD University of Illinois Chicago 2012
BA University of Notre Dame 2008

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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)
BS Washington Univ in St. Louis 1952
BA Washington Univ in St. Louis 1952
MD Washington Univ in St. Louis 1956

**Cynthia Xiuguang Ma, MD, PHD**
Professor of Medicine (primary appointment)
MD Beijing Medical University 1990
PHD University of Cincinnati 1997

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

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

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

**Kelly Mackenzie Macarthur, MD**
Assistant Professor of Medicine (Dermatology) (primary appointment)
BA Washington Univ in St. Louis 2007
MD University of missouri 2013

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

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

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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)
PHD Saint Louis University 2001
BA Cornell College 1995
BA1 Cornell College 1995

**Jambunathan Mahadevan**
Instructor in Clinical Medicine (primary appointment)

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

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

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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

**Robert John Mahoney, MD**
Associate Professor of Medicine (primary appointment)
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
BS Washington Univ in St. Louis 1986
PHD Washington Univ in St. Louis 1994
MD Saint Louis University 1998

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

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MBBS Army Medical College 1999

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Assistant Professor of Medicine (primary appointment)
BA Trinity College Dublin 2000
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MBBS Delhi University 1998

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MD University of Illinois 2011
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MD Indiana University Bloomington 1993

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BA Lafayette College 1973

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MD University of Basel 1996

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

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MD University of Texas Southwest 2005
BA University of Pennsylvania 2001

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MD Saint Louis University 1965
BS Saint Louis University 1961

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MBA Washington Univ in St. Louis 1999
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BS University of Illinois 1971
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PHD University of Paris 1992
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BS Saint Louis University 1980
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BS Xavier University 1993

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BS University of Pittsburgh 2002
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MD Oregon Health Science Univers 1998
BS Portland St University 1994
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AS Oakton Community College 2000
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BS Washington Univ in St. Louis 1990
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BS Seattle University 2012

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BS Vanderbilt University 1997

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BS Fairfield University 2004

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MA Northern Michigan University 1980
MD Michigan State University 1979

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BA University of Missouri 1989

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BA Saint Louis University 1999
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Professor of Cell Biology and Physiology
PHD California Institute Technolo 1991
BA Northwestern University 1985

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

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

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

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

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

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Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
BS University of Puerto Rico 1982
MD University of Puerto Rico 1985

Steven M Mondschein, MD
Instructor in Medicine (primary appointment)
BA Grinnell College 1981
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)
BA Washington Univ in St. Louis 1950
MD University of Pittsburgh 1954
BS University of Missouri 1952

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

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

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, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
MD American University of Beirut 2014
BS American University of Beirut 2010

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

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

PHD University College London 2010
BS University of Toronto 1998

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

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

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

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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

Danial Kast Mullady, MD
Instructor in Medicine (primary appointment)
MD University of MO Kansas City 1997

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Associate Professor of Medicine in Medicine (primary appointment)
MD Hahnemann University 1987

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

Junaid Munshi
Instructor in Clinical Medicine (primary appointment)

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

Jacob Gregory Murray, MD
Instructor in Medicine (primary appointment)
MD Des Moines Universitivy 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 (primary appointment)  
MBBS Dhaka University 2012

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Instructor in Medicine (primary appointment)  
MD University of CA San Francisco 2012  
BA University of CA Berkeley 2005  
MS University of CA Berkeley 2009  
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Instructor in Clinical Medicine (primary appointment)

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

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

Devika Nagaraj  
Instructor in Clinical Medicine (primary appointment)

Jyotirmaya Nanda  
Instructor in Clinical Medicine (primary appointment)

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Instructor in Medicine (primary appointment)  
MD Dow Medical College Karachi 1986

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MBBS Kasturba Medical College 2015  
MBBS Kasturba Medical College 2015  
MBBS Kasturba Medical College 2015  
MBBS Kasturba Medical College 2015  
MBBS Kasturba Medical College 2015  
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Associate Professor of Emergency Medicine in Medicine (primary appointment)  
BA Carleton College 1970  
MD University of Chicago 1978

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

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

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Professor of Medicine (primary appointment)  
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PHD Georgetown University 1978  
BS Framingham State College 1974

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

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

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MD University of Virginia 2001  
BS Mary Washington College 1997

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

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

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Instructor in Medicine (primary appointment)  
BS University of Illinois Chicago 2011  
MD University of Illinois 2016

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Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
BA University of Virginia 2004  
MD Royal College of Surgeons 2010
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BA Columbia University 1969  
MD State University of New York 1973

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BS Xavier University Louisana 1998  
MD Louisiana St Univ Hlth Sci 2002

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

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MD School Not Listed 1977  
BA University of Kansas 1972

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MBBCH National University of Irelan 2006

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BS University of MO Columbia 1999  
PHD Washington Univ in St. Louis 2009

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MD University of Cincinnati 1984

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MD University of Minnesota 2007  
BS Gustavus Adolphus College 2003

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Assistant Professor of Medicine (primary appointment)  
MD Wake Forest University 2010

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

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

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Associate Professor of Pathology and Immunology  
BS Harvard University 1996  
PHD Northwestern University 2002  
MD Northwestern University 2004

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

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BA Harvard University 1953  
MD Harvard University 1957

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Professor of Surgery (Public Health Sciences)  
PHD University of Pennsylania 1986  
BS Southern Illinois University 1976  
MPH Saint Louis University 2001

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Assistant Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1987  
BA Washington Univ in St. Louis 1983

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

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

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

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

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

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Alan A and Edith L Wolff Professor of Cardiology
Professor of Cell Biology and Physiology
MD Harvard University 1986
BA Harvard University 1982

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Professor of Medicine (primary appointment)
BS University of Utah 1966
MD University of Utah 1970

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

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

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Adjunct Assistant Professor of Medicine (primary appointment)
BA University of Tennessee 1992
MD University of Tennessee 1999

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

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

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

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

Daniel Marc Paget, MD
Instructor in Medicine (primary appointment)
MD University of CA San Francisco 2013

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

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

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

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

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

Kerry Will Pantelis, MD
Instructor in Clinical Medicine (primary appointment)
MD University of MO Kansas City 2004

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

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

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

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

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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)

Namrata N Patel, MD
Instructor in Medicine
MD University of Tennessee 2013

Pravinkumar Manjibhai Patel, MD
Instructor in Medicine (primary appointment)
MD BJ Medical College 1980

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Instructor in Clinical Medicine (primary appointment)
MD Saba University School of Med 2001

Rupa R Patel, M PH, MD
Assistant Professor of Medicine (primary appointment)
M PH Johns Hopkins University 2012
MD Wayne State University 2004
BA University of Michigan 2000

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

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

Bruce Patterson, PHD
Professor of Medicine (primary appointment)
BS Southern Illinois University 1974
PHD University of Illinois 1980

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

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

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

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

MS Central Michigan University 1984
Katrina Sophia Pedersen, MD, MS
Assistant Professor of Medicine (primary appointment)
MD Southern Illinois University 2009
BA Grinnell College 2003
MS University of Iowa 2005

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

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

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

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

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

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

Allegra Petti, PHD
Assistant Professor of Medicine (primary appointment)
PHD Emory University 2005
BS Lawrence University 2003

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

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

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

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

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

**Sytse J Piersma, MS, PHD**  
Instructor in Medicine (Pending Dean’s Approval) (primary appointment)  
MS State University of Utrecht 2003  
PHD Leiden University 2010

**Mark Alan Pinkerton II, MD**  
Instructor in Medicine (primary appointment)  
MD University of Mississippi 2016  
BS University of Alabama 2012

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

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

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

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

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

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

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

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

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

**Jennifer Lynn Powers Carson, PHD**  
Assistant Professor of Medicine (primary appointment)  
BS Union University 1988  
PHD Georgia Tech 1993

**Diana A Prablek, MD**  
Instructor in Clinical Medicine (primary appointment)  
BA Texas Christian University 1984  
MD Southwestern University 1988

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

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

**Vajravel M Prasad**  
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

Aaron J Pugh
Adjunct Instructor in Medicine (primary appointment)

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

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

Usman Qayyum
Instructor in Clinical Medicine (primary appointment)

Nishath Quader, MD
Associate Professor of Medicine (primary appointment)
BS University of Illinois Chicago 2002
MD Northwestern University 2007

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

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Instructor in Clinical Medicine (primary appointment)
MD University of Illinois 1989
BS University of Illinois 1985

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Instructor in Clinical Medicine (primary appointment)
MS School Not Listed 1992

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Assistant Professor of Medicine (primary appointment)
MBBS Jawaharial Inst of Med Educ 2006

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Instructor in Clinical Medicine (primary appointment)

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

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

Srinivasan Dubagunta Rao
Adjunct Instructor in Medicine (primary appointment)

Antonella Luisa Rastelli, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Surgery (General Surgery)
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

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

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

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Professor of Medicine (primary appointment)
Chromalloy Endowed Professor
Professor of Developmental Biology
BA Tufts University 1980
MD McGill University 1984

Saadia Taufiq Raza, MD
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
MD Emory University 1997
BA Emory University 1993
Babak Razani, MD, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
MD Albert Einstein College of Med 2003
PHD Albert Einstein College of Med 2003

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

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Instructor in Clinical Medicine (primary appointment)

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BA University of MO Kansas City 2019
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MD Texas Tech University 1996
BA University of Texas Austin 1992

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

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BS Tulane University 1962
MD Tulane University 1966

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MS University of Notre Dame 2009
BS Bethel College 2004
PHD University of Notre Dame 2011

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PHD Saint Louis University 1991
UNKNOWN Saint Louis University 1986
MD Saint Louis University 1993

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

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BA University of Missouri 1979
MD University of Missouri 1983

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

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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

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

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Assistant Professor of Medicine (primary appointment)
MD University of Illinois 2002
PHD University of Illinois 2000
MS University of Illinois 1997

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Associate Professor of Medicine (primary appointment)
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BS Lehigh University 1995
MD Mount Sinai School of Medicine 2004
MS Mount Sinai School of Medicine 2000
PHD Mount Sinai School of Medicine 2002

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BA University of MO Columbia 2004
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BS Illinois State University 1993
PHD Purdue University 2000

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MD University of Illinois 1979
BA University of Illinois 1974

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Assistant Professor of Medicine (primary appointment)
BS Murray St University 1982
PHD Saint Louis University 1998
MD Saint Louis University 1999

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

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BFA Tulane University 1996
MD Tulane University 2000

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

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MD Medical College Georgia 2016
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BA Saint Louis University 1996
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PHD Johns Hopkins University 2009
BS Western Kentucky University 2004

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BS Haverford College 1983
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MD Washington Univ in St. Louis 1989

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

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

Ernesto J Romo, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
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, MS, PHD
Assistant Professor of Medicine (primary appointment)
MS Lakehead University 2007
BS Lakehead University 2005
PHD Lakehead University 2012

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

Anna Roshal, MD
Assistant Professor of Medicine (primary appointment)
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
BA Brown University 2000
MD Washington Univ in St. Louis 2008

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

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

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

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

Deborah C Rubin, MD
Professor of Medicine (primary appointment)
Professor of Developmental Biology
BS Mass Inst of Technology (MIT) 1977
MD Albert Einstein College of Med 1981
BA Washington Univ in St. Louis 1994  
MD Indiana University Bloomington 1998

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

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

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

Brent E Ruoff, MD  
Associate Professor of Emergency Medicine in Medicine (primary appointment)  
BS Graceland College 1977  
MD University of Iowa 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 1997  
BS1 University of Florida 1993  
MD1 University of Florida 1997

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

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

S

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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MD Universidad de Buenos Aires 1971

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

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

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

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

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

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

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

BS Michigan State University 2004
DDENT University of Michigan 2011

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

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

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

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

Jennifer Merlo Schmidt, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Saint Louis University 2012

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

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

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

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

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

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

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

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

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(primary appointment)
BA University of Texas Austin 2001
MD University of Texas Austin 2005

Kristen Ann Scullin-Hartman, MD
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MD University of MO Kansas City 1988

David Seltzer, MD
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(primary appointment)
MD Southeastern Illinois College 1993

Jay R Selzter, MD
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MD University of Missouri 1987
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BA University of Virginia 1977
MD Washington Univ in St. Louis 1981

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

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BS St Vincent College 1964
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Instructor in Clinical Medicine (primary appointment)
MD Johns Hopkins University 1982
BA Johns Hopkins University 1976

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BA Washington Univ in St. Louis 1962

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Assistant Professor of Pathology and Immunology
PHD Johns Hopkins University 2012
MS Fudan University 2007
BS Nankai University 2003

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BS Wake Forest University 2012
MD East Carolina University 2016

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BS Nankai University 1996
PHD Oklahoma St University 2002

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BA Northwestern University 1970
MD Washington Univ in St. Louis 1974

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MD University of Jordan 1988

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MD University of CA San Francisco 2008

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BA University of CA Berkeley 1987
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BS Washington Univ in St. Louis 1972
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BA Brandeis University 1977
MD University of Missouri 1981

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BS University of Michigan 1978
MD Wayne State University 1982

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BS University of California in Ri 2004
MD Ross University School of Med 2011

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MD Saint Louis University 1996
BA Saint Louis University 1991

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

Julie Martha Silverstein, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Neurological Surgery
BA New York University 2004
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Robert W Sindel, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1975
BA Washington Univ in St. Louis 1969

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

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

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

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

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

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

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

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

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

Gordon lan 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)
BA Vassar College 1980
MD University of Virginia 1984

Timothy Robert Smith, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Mississippi 1983
MD University of Mississippi 1989

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

Michael C Snyder
Adjunct Instructor in Medicine (primary appointment)

Sandeep Sodhi, MD
Assistant Professor of Medicine (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)
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)  
BA Washington Univ in St. Louis 1969  
MD Washington Univ in St. Louis 1975

James Joseph Spadarо 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)  
BS Loyola University Chicago 2005  
MD University of Illinois 2010

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)  
BA New College California 1976  
MD School Not Listed 1983

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

Phyllis K Stein, M ED, PHD  
Associate Professor of Medicine (primary appointment)  
M ED University of Virginia 1987

BA Barnard College 1962  
PHD University of Virginia 1990

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

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

William F Stenson, MD  
Dr Nicholas V Costrini Professor of Medicine (primary appointment)  
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, MA, MD  
Associate Professor of Medicine (Dermatology) (primary appointment)  
BA Washington Univ in St. Louis 1999  
MA Washington Univ in St. Louis 2003  
MD Washington Univ in St. Louis 2005

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

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

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

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

Cristina Strong, PHD  
Assistant Professor of Medicine (Dermatology) (primary appointment)  
PHD University of Alabama 2002
Christopher Michael Sturgeon, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Developmental Biology
BS Carleton University 2001
PHD University of British Columbia 2006

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

Xiong Su, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
PHD Washington Univ in St. Louis 2004
BS Beijing University 1998

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, M PA, PHD, MD
Associate Professor of Medicine (primary appointment)
M PA Johns Hopkins University 2008
PHD Yokohama City Univ Sch Med 1999
MD Yokohama City Univ Sch Med 1992

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

Bridgette B Svancarek, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BS Saint Louis University 2001
MD University of MO Columbia 2006

Reema Hameed Syed, MD
Associate Professor of Medicine (primary appointment)
MD Dow Medical College Karachi 2019

Laneshia 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)
MD University of the Philippines 1990
BS University of the Philippines 1985

David Tan, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
BS Union College Nebraska 1992
MD Loma Linda University 1997

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

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

Heidi H Tastet, MD
Instructor in Medicine (primary appointment)
MD Loma Linda University 2005

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

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

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

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

Doris Janet Tube-Brown  
Instructor in Clinical Medicine (primary appointment)

Nikolaos Trikalinos, MD  
Assistant Professor of Medicine (primary appointment)  
MD UNIVERSITY OF IOANNINA 2005

Shivani Tripathi, MD  
Assistant Professor of Medicine (primary appointment)  
MD Medical College of Wisconsin 2011

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

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)  
BS University of Notre Dame 1977  
MD Saint Louis University 1981

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

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

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

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

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

Doris Janet Tube-Brown  
Instructor in Clinical Medicine (primary appointment)

Nikolaos Trikalinos, MD  
Assistant Professor of Medicine (primary appointment)  
MD UNIVERSITY OF IOANNINA 2005

Shivani Tripathi, MD  
Assistant Professor of Medicine (primary appointment)  
MD Medical College of Wisconsin 2011

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

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)  
BS University of Notre Dame 1977  
MD Saint Louis University 1981

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

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

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

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

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

Doris Janet Tube-Brown  
Instructor in Clinical Medicine (primary appointment)

Nikolaos Trikalinos, MD  
Assistant Professor of Medicine (primary appointment)  
MD UNIVERSITY OF IOANNINA 2005

Shivani Tripathi, MD  
Assistant Professor of Medicine (primary appointment)  
MD Medical College of Wisconsin 2011

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

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)  
BS University of Notre Dame 1977  
MD Saint Louis University 1981

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

Stacey S Tull, MD, M PH  
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)  
BS University of Texas Austin 1993
John W Turk, MD, PHD
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MD Washington Univ in St. Louis 1976
BA Washington Univ in St. Louis 1970
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BS Stanford University 1976
MD Saint Louis University 1980

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MD Washington Univ in St. Louis 1982
PHD Washington Univ in St. Louis 1982
BS Univ of Wisconsin Madison 1975

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MD Keio University 1994
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MA Washington Univ in St. Louis 2001
BA Cornell University 1998
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MD Washington Univ in St. Louis 2001

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MD University of Texas Southwest 2006

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MD Washington Univ in St. Louis 1972
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Associate Professor of Medicine (primary appointment)
MD University of AL Birmingham 2005
P HD University of AL Birmingham 2005
BS University of Arizona 1995

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MD Tel-Aviv University 1988

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MD Carol Davila U of Medicine 2005

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MD University of Barcelona 2005

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BA Princeton University 1987
PHD Washington Univ in St. Louis 1995
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MBBS CMC, Vellore, India 1990

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MD University of Iowa 2019
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Courses
Courses include the following:
- M25 Medicine (p. 60)
- M27 Emergency Medicine (p. 67)

M25 Medicine

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, spondyloarthropathies, crystalline disorders, and infectious arthritis), classic "autoimmune diseases" (lupus, inflammatory myopathy, and scleroderma), and vasculitic syndromes are presented. A team based learning exercise on rheumatology lab tests gives students a chance to teach one another the details. Two separate sessions with four unknown patients gives students a chance to interview patients and try to make a diagnosis.
Credit 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, decision-making. The sections of POM II include Clinical Skills, Case Development, Communication Skills, Ophthalmology, Radiology, Community and Public Health, Ethics and Health Policy, Cardiology, 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 462 units.
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 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. Subintens act as their patients’ interns under the supervision of residents and attending physicians. Subintens 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. Subintens are not required to spend call nights in the hospital. Except in emergencies, subintens 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. Subintens 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. Subintens attend the same conferences as the house staff.

**M25 Medicine 805 Rheumatology**
Students will be involved in the diagnostic work-up and management of patients with conditions such as systemic lupus erythematosus, rheumatoid arthritis, scleroderma, vasculitis (ANCA-associated vasculitis, temporal arteritis, etc.), spondyloarthropathies (ankylosing spondylitis, psoriatic arthritis, reactive arthritis, etc.), and gout; there is less exposure to osteoarthritis and regional musculoskeletal problems. By working closely with a faculty member, fellows and medical residents, students become integral and active members of the rheumatology service for inpatient consultations and outpatient clinics at Barnes-Jewish Hospital. An emphasis is placed on the physical examination of joints and the musculoskeletal system, synovial fluid analysis, and interpretation of diagnostic tests and radiographs. Students attend two rheumatology conferences held weekly. A rotation limited to outpatient rheumatology is possible by prior arrangement with the course director.

**M25 Medicine 807 General Medicine Subinternship — VA**
The purpose of the General Medicine Subinternship at the VA Medical Center is to develop proficiency in the care of hospitalized patients on an internal medicine ward. Subinterns will have similar responsibilities as interns, with appropriate supervision by the attending and resident physicians. They have the same on-call/admitting schedules as the interns and participate in the same teaching conferences, but they do not take overnight call. Subinterns should admit at least two patients per call day, and they should be the first to evaluate the patients admitted to the medical service, except in emergencies. A diagnostic and therapeutic approach to evaluating each patient is planned in consultation with the resident. Subinterns assume primary responsibility for the daily care of their patients, including evaluating each patient daily, presenting on morning rounds entering orders (discussed with and co-signed by the resident), interpreting results of diagnostic studies, calling consults, collaborating with nurses and social work, organizing post-discharge care, and communicating with patients and their families. Subinterns attend weekly small group learning sessions during which they discuss, diagnose, and treat patients using example cases. By the end of the VA General Medicine Subinternship, subinterns will be able to independently do the following: synthesize and succinctly present a patient’s history, exam, diagnostic data, assessment, and plan of care; support differential diagnoses and proposed care plans with clinical reasoning and evidence; demonstrate how to correctly order diagnostic tests and medications that further patient care; analyze complex patient cases during interactive small group learning sessions; integrate feedback from patients, residents, and attending physicians; and formulate a plan for ongoing improvement as a clinician.

**M25 Medicine 810 Geriatric Medicine**
The primary goal of this rotation is for students to gain proficiency in the principles of geriatric evaluation and management, including the medical, psychological, social, and functional assessments of older adults. Students are expected to participate in the evaluation of three to five patients per week, in a variety of settings including the outpatient Geriatric Assessment Clinic, in-patient 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.
M25 Medicine 811 Hospitalist Subinternship
This course allows the student to work one-on-one with hospitalist physicians on a patient care team. The student acts as the intern under the direct supervision of the attending physician. Daily responsibilities include admission history and physicals, daily notes and discharge summaries on assigned patients. They also will have the opportunity to perform indicated procedures on patients on this service. Students are encouraged to participate in Department of Medicine conferences.

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

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

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

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

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

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

M25 Medicine 830 Dermatology
The aim of this elective is to provide a guide for students so they are able to appreciate dermatology within the broader perspectives of medicine and biology. Emphasis will be placed on the dermatologic variations encountered in a normal physical examination of the skin, the identification of common skin diseases, dermatologic clues to systemic disease, as well as those dermatologic conditions that are life-threatening. The student will participate in outpatient care in the Barnes-Jewish Hospital and affiliated clinics. Students will attend all clinical teaching rounds and conferences in addition to the basic science and cutaneous histopathology conferences.
M25 Medicine 831 Pediatric Dermatology
This clinical rotation will be available to students interested in dermatology, pediatrics or both. Students will follow the dermatology rotation (M25 830) with an emphasis on pediatric dermatology by attending pediatric dermatology clinics, seeing consults, etc.

M25 Medicine 834 Clinical Mentoring
This elective is designed to develop the teaching and mentoring skills of our fourth-year medical students through structured hospital sessions with first-year medical students. The primary format of the elective is observation of two first-year students during hospital sessions that span from September-April. During these hospital sessions the first-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/yr) 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) student 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 will also be
stressed. Faculty and medical students will present interesting cases for discussion or the students can present a pertinent topic related to bone metabolism they have researched during their rotation.

M25 Medicine 849 Sun Protection Outreach Teaching by Students (SPOTS)
Students will teach public and private middle school and/or elementary school students in the St. Louis area about skin cancer and sun protection. SPOTS courses are taught in a single 85-minute session or in two 50-minute sessions. The program involves delivering a PowerPoint presentation with a pre-written script, interactive games, a video, and hands-on demonstrations. The elective is open to students who are new to this program as well as to students who previously participated in the SPOTS first-year selective. Students new to SPOTS are required to attend two evening training sessions (2.5 hours each) to learn the content of the program as well as teaching strategies. For students who have 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 typically taught by students in pairs. Learning objectives are as follows: (1) Demonstrate knowledge of basic principles of skin cancer, including how to detect skin cancer and how to decrease risk with photoprotection. (2) Effectively communicate this knowledge to children/adolescents.

M25 Medicine 853 Bone and Joint Infectious Diseases
Study of infectious diseases of the bones and joints, including infections in both native and prosthetic joints. The elective is designed to teach students the fundamentals of evaluating clinical problems in infection and formulating plans for diagnosis and management. Students see consultations in infectious diseases in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with the infectious diseases attending and nurse practitioner, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics and antifungal agents. The role of surgical and medical management is discussed, and the students will interact with surgical staff in understanding the risks and outcomes of these common infections. Two weeks of General Inpatient Infectious Disease are a prerequisite to this course.

M25 Medicine 854 Transplant Infectious Diseases
Study of infectious diseases in patients who have had bone marrow or solid organ transplants, or who have a hematologic malignancy. The elective is designed to teach students the fundamentals of evaluating clinical infections in these complex and interesting patients and formulating plans for workup and therapy. Students see consultations in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with infectious disease fellows, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics, antifungal and antiviral agents in this highly immunosuppressed 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 855 Ambulatory Infectious Diseases
The elective is designed to teach students the fundamentals of evaluating clinical infections in the outpatient setting. Students see patients under the supervision of a faculty member. Students will participate in the care of HIV-infected or otherwise immunosuppressed patients as well as general infectious disease and travel patients. The clinic is the primary provider for HIV-infected patients, and students will learn the pathogenesis of HIV, become familiar with most antiretroviral medications, and have the opportunity to learn about opportunistic infections and their prophylaxis. They will also have the opportunity to see patients with bone and joint infections, endovascular infections, endemic and opportunistic mycoses, mycobacterial infections, sexually transmitted diseases, and many other infections. Patients seen will have a wide range of acute and chronic infections, and will include indigent and insured patients across a wide range of ages. The students will play an important role in the management of these patients and will present their assessments and plans to the supervising attending. They are expected to write clinic notes, read the literature about their patients, and participate in clinical conferences.

M25 Medicine 859 General Inpatient Infectious Diseases
This elective allows students to participate in the management of patients with a wide variety of infections in the inpatient setting. The elective is designed to teach students the fundamentals of evaluating clinical problems in infection and formulating plans for diagnosis and management. Students see consultations in infectious diseases in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with medical residents and infectious disease fellows, follow their own patients, and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds, conferences, and lectures in infectious diseases. They see a wide variety of infectious diseases, including community-acquired acute and chronic infections, surgical infections, opportunistic infections in HIV-infected patients and other immunocompromised hosts, and hospital-acquired infections. They also learn basic infection control practices as well as the appropriate use of antibiotics and antifungal and antiviral agents.

M25 Medicine 861 Oncology — Inpatient Consult Service
Medical Oncology is a complex subspecialty that is undergoing a rapid evolution as a result of new systemic treatment approaches that stem from biological insights into the nature of cancer. During the course of the elective, medical students will be able to interact with attending physicians and patients for bedside teaching and attend tumor boards and lectures focused on the care of patients with solid tumors. At the end of the rotation, the students will appreciate the principles of our approach to cancer patients and should have gained insights into the evaluation and management of patients with newly diagnosed malignancies. The role of surgery, radiation, and systemic treatment will also be an important theme, as well as the conduct of clinical research in this patient population. Students will also learn to care for hospitalized patients suffering from complications from
their cancer or from toxicities due to treatments. Oncologic emergencies will be covered. Issues such as palliative care treatment options and end-of-life decision making will be explored as well.

M25 Medicine 867 Medical Intensive Care
The Medical Intensive Care Unit Elective is designed to introduce senior medical students to cognitive and procedural aspects of critical care medicine. Students will be expected to learn the basic pathophysiology and treatment approaches to respiratory failure, shock states and metabolic derangements. Participation in procedures will be encouraged as available. Dynamics of difficult conversations with patients and family members will also be modeled and discussed. Clinical responsibilities will occur as a part of a call team and students will be expected to participate in admissions and daily follow-up on the patients 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 BJC 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, pulmonology 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
Clinical cardiology with some internal medicine in a rural setting. Inpatient and outpatient care: Diagnostic testing. Device implants and follow-up care. Cardiac catheterization. Peripheral vascular angiography and intervention.

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

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

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

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

M27 Emergency Medicine

M27 EMED 801 Emergency Medicine Subinternship
This rotation offers practical experience in the evaluation and management of acutely sick and injured patients. Students will function as subinterns, initially evaluating their assigned patients and then developing a plan for further diagnostic studies and therapy. They will report to a senior-level resident or an attending physician. The student can expect the opportunity to perform a wide variety of procedural skills, such as suturing, splinting, peripheral and central venous access, and cardiopulmonary resuscitation. Shifts will be eight hours long, and students will rotate between day, evening, and night shifts (including weekend shifts) to gain maximum exposure to all types of emergencies. A core group of lectures will be provided. Students will gain an understanding of prehospital care by doing a ride-along shift with the St. Louis Fire Department EMS. Students will also gain knowledge of the basics of ultrasound during their time in the department. Students interested in EM will be doing 1:1 shifts with a single attending during their last two weeks of the rotation. Students desiring a letter of recommendation from any EM attending should take this WUMS-IV Emergency Medicine Subinternship. Students will be scheduled for required weekend and overnight shifts, and changes will not be allowed in the schedule unless approved prior to the start of the rotation by the course coordinator. Please be advised that there is a limit to the number of days off while on this rotation during interview season; otherwise, students should arrange to take the elective at a different time during the year. Days off during the rest of the year will conform to university policy. Days off should be requested from the course coordinator at least two weeks prior to the beginning of the rotation for scheduling purposes.

M27 EMED 810 Medical Toxicology
This rotation offers practical experience in the evaluation and management of the acutely ill, poisoned, or intoxicated patient. Students will function as subinterns and either report to the senior resident, the fellow, or directly to the toxicology attending. Students will gain familiarity with and experience in evaluating and treating patients who have intentionally and unintentionally overdosed on medications or illicit drugs; those who have substance use disorders; those who have been envenomated (e.g., by spiders, snakes, or other reptiles); and those who have been exposed to toxic substances or chemicals. Students will also gain experience in administering antidotes and learning to properly decontaminate someone after an ingestion or exposure. There are no overnight or weekend shifts. While not required, students are welcome to come in during their off hours to see new consults and to enhance their experience and learning. Daily activities start in the morning and are generally concluded
by the early afternoon. A core group of lectures will be provided. The students will also be assigned small projects during their rotation that will enhance their experience, particularly in environmental and occupational toxicology. Opportunities to increase their experience with occupational toxicology and addiction medicine also exist during this rotation; students will be able to rotate in the outpatient toxicology and addiction medicine clinic. Students will also have the opportunity to go to the Missouri Poison Center. Students desiring a letter of recommendation from one of the toxicology attendings (who are also emergency medicine attendings) or who are interested in emergency medicine or medical toxicology should take this elective. In addition, students considering other specialties such as pediatrics or internal medicine should consider this rotation, because they will be responsible for evaluating patients with these conditions as part of their inpatient or outpatient practice. Please be advised that there is a limit of days off while on this rotation during interview season; otherwise, students should arrange to take the elective at a different time during the year. Days off should be requested from the course coordinator at least two weeks prior to the beginning of the rotation for scheduling purposes.

M27 EMED 820 Emergency Ultrasound
Point-of-care ultrasound has become an integral diagnostic and procedural tool for nearly every clinical specialty. Ultrasound examination at the bedside is noninvasive, painless, and repeatable, unlike many other common diagnostic tests. However, like all procedures, developing ultrasound skills takes a significant amount of practice and experience. This rotation will focus on clinical ultrasound image acquisition and interpretation at the bedside. Students will participate in the performance of bedside ultrasound examinations of patients in the emergency department. Common applications of emergency ultrasound include the FAST exam; pelvic ultrasound; abdominal aortic aneurysm; vascular access; renal, ocular, or cardiac ultrasound; and deep vein thrombosis. Students will be involved in direct patient care during this rotation as part of the ultrasound team in the emergency department. In general, the student will be in the emergency department during weekdays to perform these exams. In addition, the student will meet with the elective instructor approximately once per week to review images or for direct hands-on instruction. At the end of the rotation, the student should be able to obtain images for basic point-of-care ultrasound examinations and to interpret those images for diagnostic purposes. Students may also have the opportunity to practice ultrasound-guided procedures during the rotation.