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

Website: https://internalmedicine.wustl.edu

Research

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

M25 Medicine 900

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

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

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

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

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

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

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

Our focus is on the genetic pathways of nonalcoholic fatty liver disease (NAFLD) and colorectal cancer development. We have two major areas of research interest. Our laboratory is interested, first, in the molecular mechanisms of hepatic steatosis and the pathogenesis of NAFLD. This is the most prevalent liver disease in the United States, likely affecting a quarter of the population. We have generated genetically manipulated mouse strains that offer insights into the mechanisms of hepatic steatosis. The student would work as part of a team, designing and conducting experiments that will test hypotheses concerning the mechanisms and consequences of hepatic steatosis. These studies will primarily involve mouse genetics, examining the expression of candidate genes under a variety of nutritional and pharmacologic settings that modulate hepatic lipid metabolism. In addition, we are using microarrays to study the spectrum of genetic changes that may predict the extent of hepatic lipid accumulation in patients with steatohepatitis. Our goal is to test hypotheses using mouse genetics and to extend these studies to examine the same pathways in humans with NAFLD. Our second area of interest concerns the genetic pathways involved in colorectal cancer, the second leading cause of cancer-related deaths. We have developed a novel strain of mice in which the dominant effects of mutations in the APC tumor suppressor gene have been abrogated through deletion of an RNA binding protein, apobec-1. This deletion has a major effect on the expression of cox-2, abrogating the increase in expression seen in human colonic adenomas and wild-type mouse intestinal adenomas. These findings suggest that apobec-1 is a genetic modifier of colon cancer development. We will study the importance of apobec-1 expression in human colon cancer specimens and continue our murine genetic studies of this novel pathway for modulating colon cancer development and progression.
Gerome Escota, MD  
6604 Wohl Hospital  
Phone: 314-362-8050  
esgotag@wustl.edu (escortag@wustl.edu)

The focus of this lab is on special projects in medical education. Through special arrangement with and approval by the course director, fourth-year students will participate in these projects. Typical projects will require approximately four weeks to complete. These four weeks can occur consecutively (preferred) or be spread out somewhat, as needed. Medical education projects should be aimed at improving the curriculum, the student experience, and/or the administration of the Internal Medicine clerkship or the sub-internship. Interested students should contact the course director via phone or email to discuss the proposed project. Those who are interested but who would like guidance in designing a project should also contact the course director. This is open only to Washington University School of Medicine students.

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

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

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

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

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

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

Stacey House, MD, PhD  
Phone: 314-362-8070  
houses@wustl.edu

Lisa Hayes  
Phone: 314-362-4362  
hayesl@wustl.edu

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

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

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

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

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

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

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

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

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

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

Katherine Ponder, MD  
8818 Cancer Science Research Building  
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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 OHS 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. Bornefeld Chair in Gastrointestinal Research and Treatment
Professor of Medicine
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Virginia E. and Sam J. Golman Professor of Medicine
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Mark S. Thoelke, MD
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Chief, Division of Hospital Medicine

H. James Wedner, MD
Dr. Philip 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.

A

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

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

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

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

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

Natalia Brito Rivera, MD  
Instructor in Medicine (Pending Dean's Approval) (primary appointment)  
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

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

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

Angela L Brown, MD  
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BS Southern Methodist University 1987  
MD Washington Univ in St. Louis 1992

David L. Brown, MD  
Professor of Medicine (primary appointment)  
BA University of Texas Austin 1977  
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Jeffrey Wade Brown, MD, PHD  
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Lawrence R Brown, PHD, MD  
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PHD Washington Univ in St. Louis 1989  
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MD Saint Louis University 1981  
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MD Washington Univ in St. Louis 1977

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MD Vanderbilt University 2007  
BS Brigham Young University 1998  
PHD Vanderbilt University 2003  
BS1 Brigham Young University 1998

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Instructor in Medicine (Pending Dean's Approval) (primary appointment)  
MD Wright State University 2016  
BS Miami University 2012

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

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

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

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BA University of MO Kansas City 2004  
MD University of MO Kansas City 2004

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

Melvin J Butler  
Instructor in Clinical Medicine (primary appointment)

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BS University of Oklahoma 1993
PHD University of Texas Southwest 2001
MD University of Texas Southwest 2001

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BS1 Tulane University 2007
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BS Rhodes College 2007

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

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Associate Professor of Neurological Surgery
PHD University of Louisville 2003
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MS Peking Union Medical College 2000

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BA Saint Louis University 1996
MD Saint Louis University 2001

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Assistant Professor of Medicine (primary appointment)
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Professor of Medicine (primary appointment)
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Christopher Robert Carpenter, MD

Professor of Emergency Medicine in Medicine (primary appointment)
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Professor of Neurology
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Executive Chair Washington University Institutional Review Board
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BS Yale University 1995
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MD Universidad Peruana Cayetano 1993

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

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Assistant Professor of Clinical Medicine (primary appointment)
MD University of Missouri 1990
BA Saint Louis University 1986

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BS University of Westminster 2009
PHD AIX-MARSEILLE UNIVERSITY 2013

Murali M Chakinala, MD
Professor of Medicine (primary appointment)
BS Duke University 1990
MD Vanderbilt University 1994
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant A Challen, PHD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>PHD University of Queensland 2006</td>
</tr>
<tr>
<td>Philip Chan, MD</td>
<td>Instructor in Emergency Medicine in Medicine (primary appointment)</td>
<td>BA Northwestern University 2009, MD Northwestern University 2013</td>
</tr>
<tr>
<td>Dennis Tian-Shu Chang, MD, MED</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>BS Yale University 1999, MD University of Chicago 2003, MED University of Chicago 2003</td>
</tr>
<tr>
<td>Kae Pyng Chang, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>BA Washington Univ in St. Louis 1991, MD University of Missouri 1995</td>
</tr>
<tr>
<td>Monica Chang-Panesso, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Texas Tech University 2009</td>
</tr>
<tr>
<td>Douglas Char, MD, MA</td>
<td>Professor of Emergency Medicine in Medicine (primary appointment)</td>
<td>MD University of Hawaii 1989, BS Boston College 1983, MA Boston University 1985</td>
</tr>
<tr>
<td>Lewis Robert Chase, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BA Princeton University 1960, MD Harvard University 1964</td>
</tr>
<tr>
<td>Salman Chaudhry, MBBS</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MBBS Agha Khan University, Pakistan 2007</td>
</tr>
<tr>
<td>Lakshmi Ramya Chelapareddy, MBBS</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MBBS Dr. NTR University of Health S 2010</td>
</tr>
<tr>
<td>Alexander Chi Chen, MD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>MD University of MO Kansas City 2001</td>
</tr>
<tr>
<td>Baosheng Chen, PHD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>PHD Peking Union Medical College, 2002</td>
</tr>
<tr>
<td>Chien-Huan Chen, PHD, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td></td>
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<tr>
<td>PhD Johns Hopkns University Medic 1999</td>
<td></td>
<td>MD National Taiwan University 1993</td>
</tr>
<tr>
<td>David Yuan-Sou Chen, PHD, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>BS University of Michigan 2003, PHD Washington Univ in St. Louis 2012, MD Washington Univ in St. Louis 2012</td>
</tr>
<tr>
<td>Edward C. Chen, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Saint Louis University 2005</td>
</tr>
<tr>
<td>Feng Chen, PHD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>BS Fudan University 1991, PHD University of Utah 1998</td>
</tr>
<tr>
<td>Phyllis Chen, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Northwestern University Med 1992</td>
</tr>
<tr>
<td>Qing Chen, MD, UNKNOWN, MS</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Nanjing Medical University 1983, UNKNOWN School Not Listed 1983, MS Nanjing Medical University 1988</td>
</tr>
<tr>
<td>Sara X Chen</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>BS Vanderbilt University 2010</td>
</tr>
<tr>
<td>Ying Chen, PHD, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>PHD Vanderbilt University 2004, MD Shanghai Medical University 1996</td>
</tr>
<tr>
<td>Steven Chih Nung Cheng, MD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>BA Northwestern University 2001, MD Northwestern University Med 2002</td>
</tr>
<tr>
<td>Praveen R Chenna, MBBS</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>MBBS Sri Ramachandra Medical Colleg 2005, BS Washington Univ in St. Louis 1998</td>
</tr>
<tr>
<td>Cynthia Cherfane, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD St. Joseph University, Beirut 2011</td>
</tr>
<tr>
<td>Milan G Chheda, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Albert Einstein College of Med 2002</td>
</tr>
<tr>
<td>Rebecca Joy Chibnall, AA, MD</td>
<td>Assistant Professor of Medicine (Dermatology) (primary appointment)</td>
<td>BS Washington Univ in St. Louis 2007</td>
</tr>
</tbody>
</table>
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MS Univ of Nebraska at Omaha 2001

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MD Washington Univ in St. Louis 2010
PHD Washington Univ in St. Louis 2010

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Instructor in Clinical Medicine (primary appointment)
BS California State Fresno 1986
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MD Oregon Health Science Univers 2010

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Associate Professor of Medicine (primary appointment)
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BS University of Michigan 1993
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Professor of Cell Biology and Physiology
Professor of Orthopaedic Surgery
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BS University of Siena 1980

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

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MD University of Missouri 1987

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MD University of Alabama 2003

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

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Assistant Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 2008
BS Rice University 1997

Sarah F Cole
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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Assistant Professor of Medicine (primary appointment)
MD Temple University 2011

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

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

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Associate Professor of Medicine (Dermatology) (primary appointment)
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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Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
BS Beloit College 2003
PHD Northwestern University 2007

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

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

BS Loyola College 1994

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Assistant 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 Binghamton 1982

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

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Professor of Medicine (primary appointment)
MD University of Kansas 1984
BS University of Notre Dame 1980

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

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

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Associate Professor of Medicine (primary appointment)
Associate Professor of Radiation Oncology
MD Vanderbilt University 2001

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Associate Professor of Biostatistics
PHD Washington Univ in St. Louis 1998
BA Vanderbilt University 1983
MA University of CA Berkeley 1987

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BS Williams College 1995
MS San Francisco St University 1998
MD Saint Louis University 2005

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Instructor in Clinical Medicine (primary appointment)
MD University of Rochester 1974

D

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MD Washington Univ in St. Louis 2013
Ann Marie Dale, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Occupational Therapy
BS University of MO Columbia 1983
PHD Saint Louis University 2009

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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)
BS Howard University 1985
MD Howard University 1989

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

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Instructor in Clinical Medicine (primary appointment)

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

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BA Princeton University 1989

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BS Northeast Ohio Medical U 2012
MD Northeast Ohio Medical U 2016

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MD Sindh Medical College 1987

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

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

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

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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

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

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

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Assistant Professor of Medicine (primary appointment)
BS Morehead St University 1994
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MD Vanderbilt University 1999

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BS University of Colorado Boulder 1990
MD Washington Univ in St. Louis 1995
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Associate Dean of Medical Student Education
Professor of Medicine
MD University of Missouri 1989
BA University of Missouri 1985

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BA Stanford University 1991

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BA Bowdoin College 1986

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MS University of MO St Louis 2007
BS University of MO St Louis 2005
PHD University of MO St Louis 2013

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MBBS Jawaharlal Institute of PostGr 2004

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MD University of MO Columbia 2003
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MD Creighton University 2004
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Bethany L Dement, MD
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MD Southeast Missouri St Univrs 2001

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

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

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

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

PHD University of Georgia 1985

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

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

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

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

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

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

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

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

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

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

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

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

Abhinav Diwan, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Cell Biology and Physiology
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Martin A Docherty, MD
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BS Edinburgh University 1978
MD Saint Louis University 1983

Irl Joseph Don, MD
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MD Washington Univ in St. Louis 1972
BA Washington Univ in St. Louis 1969

James W Donnelly, MD
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MD Washington Univ in St. Louis 1986

Balraj Doray, PHD
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BS Southern Illinois University 1993
PHD University of Illinois 1999

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MD University of North Carolina 1990
BA University of North Carolina 1985

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BA Augustana University College 1995
MD University of Illinois 1999
MPH Saint Louis University 2008

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

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DOST Univ of Health Sciences KC 2003
BS Muhlenberg College 1998

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William C Dunagan, MS, MD
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BS University of Texas Austin 1978
MS University of Texas Austin 1980
MD Washington Univ in St. Louis 1983

Julia Passyn Dunn, MD, MS
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MD University of South Alabama 2002
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MS Vanderbilt University 2010

Michael Joseph Durkin, M PH1, MD
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M PH1 University of North Carolina 2015
MD Medical College of Wisconsin 2008

Tiffany Biason Dy, MD
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BS University of Miami 2005
MD Univ Texas Health Science Ctr 2009

William Charles Eades Jr, BEE
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BEE MO S&T (formerly UoFMO Rolla) 1982

Dayna S Early, MD
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BA University of Missouri 1960
MD University of Missouri 1964

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

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Russell E Eggebrecht, MD
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BS University of Illinois 1967
MD Washington Univ in St. Louis 1971

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MD Tehran University 1965

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MD School Not Listed 1987

Seth A Eisen, MS, MD
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MS Harvard University 1989
MD Washington Univ in St. Louis 1966
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PHD University of North Carolina 1982
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MS School Not Listed 1986
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MD Southern Illinois University 1983
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MD Washington Univ in St. Louis 2008
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MD University of Khartoum 1985

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PHD University of South Carolina 2011
BS Columbia College 2005

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MD University of MO Columbia 2000
BS University of MO Columbia 1996

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MD Washington Univ in St. Louis 1969
BS University of Notre Dame 1965

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MD University of the Philippines 2004
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MD Washington Univ in St. Louis 1983
BS Vanderbilt University 1979

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Assistant Dean for Clinical and Translational Research
Professor of Occupational Therapy
MD Washington Univ in St. Louis 1986
BA Cornell University 1982
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MD Brown University 1977
BA Brown University 1973

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Professor of Medicine (primary appointment)
BS University of Illinois 1985
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PHD La Sapienza University 2006
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Professor of Medicine (primary appointment)
PHD Washington Univ in St. Louis 1993
MD Washington Univ in St. Louis 1993
BS Kansas State University 1985

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

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

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

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PHD University of Parma 2014
MD University of Parma 2004

Herman L Ferrell, MD
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BS University of Arkansas 1973
MD University of Arkansas 1975

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Instructor in Medicine (primary appointment)
BS Southeast Missouri St Univers 2006
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Kathryn Lynn Filson, MD
Instructor in Medicine (primary appointment)
MD Southern Illinois University 2015

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Associate Professor of Medicine (primary appointment)
BS University of Illinois 1994
MS University of Illinois 1996
PHD University of Illinois 2000

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BA University of Rochester 1970
MD Washington Univ in St. Louis 1974

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

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MD School Not Listed 1974

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

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MD Saint Louis University 1985
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Professor of Medicine (primary appointment)
BA Cornell University 1981
MD Saint Louis University 1985

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

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

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MD Northwestern University 2008

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MS University of Naples 2012
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MD University of California 1988

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Professor of Medicine (primary appointment)  
BA Lehigh University 1979  
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MBA Washington Univ in St. Louis 1984  
MD Southern Illinois University 1984  
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MD University of Madras 1986

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Professor of Developmental Biology  
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BS University of MO St Louis 1971

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MS Ohio State University 2014
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BS University of Pittsburgh 1988
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PHD University of Minnesota 1974
MD School Not Listed 1969

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MD Univ Texas Health Science Ctr 2015
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DIP School Not Listed 1982
MD Catholic University 1989

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MBA Saint Louis University 2012
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BA Columbia University 1997

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MD1 University of Texas Southwest 1997
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MA Univ of IL-Urbana-Champaign 2008
MD University of MO Columbia 2014
BA Univ of IL-Urbana-Champaign 2006

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MD RNT Medical College 1973
MBBS RNT Medical College 1968

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MD Oregon Health Science Univers 2007

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BS University of MO Columbia 1999
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Associate Director of the Genome Center
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PHD Cold Spring Harbor Laboratory 2003
BS University of CA Berkeley 1998

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MD University of Juba 2004

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PHD University of Michigan 2016
BA University of Evansville 2004

MS Missouri College 2010

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

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

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Assistant Professor of Medicine (primary appointment)
BS Binghamton University 1994
MD New York U. School of Medicine 2003

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MD Dow Medical College Karachi 1976

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MD University of Missouri 1986
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BS University of Illinois 1999
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BS Duke University 2001
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Associate Professor of Molecular Microbiology
BS Univ of Wisconsin Madison 1994
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Assistant Professor of Clinical Medicine (primary appointment)  
MD University of Minnesota 1998  
BS Univ of Wisconsin Madison 1993

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Instructor in Clinical Medicine (primary appointment)  
BA Saint Louis University 1982  
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Instructor in Clinical Medicine (primary appointment)  
MD Universdad Nacional de Columb 2007

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

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

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Associate Professor of Medicine (primary appointment)  
MD Freie University 1994  
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Assistant Professor of Medicine (primary appointment)  
MD Luliu Hatieganu U of Med 2007

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

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

Sue Lin 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)  
MA Washington Univ in St. Louis 1970  
MD Washington Univ in St. Louis 1970  
BA Washington Univ in St. Louis 1965

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

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

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

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

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MD Washington Univ in St. Louis 1999  
BS Univ of Wisconsin Madison 1994

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

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

Melissa Louise Hollie  
Instructor in Clinical Medicine (primary appointment)

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Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD Saint Louis University 2000

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Selma and Herman Seldin Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
MD Northwestern University 1975  
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Neal Holzum  
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PHD Northeastern University 2008

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PHD Edinburgh University 2003
BS Nanjing University 1999
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BS Mass Inst of Technology (MIT) 1971
PHD Harvard University 1978
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PHD University of Cincinnati 2005
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UNKNOWN School Not Listed 1995

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MD New York University 2008
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BS Stanford University 2002

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

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BA University of California 1990
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BA University of Texas Austin 1990
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PHD University of Chicago 2006
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PHD Washington Univ in St. Louis 1993
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PHD Vanderbilt University 1997
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BS Univ of Wisconsin Madison 2004
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PHD University of Texas Austin 1992
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BS University of Saint Thomas 2002

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MD Saint Louis University 1997
MS Northwestern University 1995
BS University of Missouri 1993

Randall S Jotte, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
MD Harvard University 1987

Karen Ellen Joynt Maddox, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Social Work
MD Duke University 2004
BA Princeton University 2000

K

Brad S Kahl, MD
Professor of Medicine (primary appointment)
BS University of Wisconsin Madison 1989
MD Tufts University 1994

Caroline Holleck Kahle, MD
Assistant Professor of Medicine (primary appointment)
MD University of North Carolina 2006

Sona Sharad Kamat
Instructor in Clinical Medicine (primary appointment)

Vinay Gopal Kamat, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Pennsylvania 1994

Deborah Shipley Kane, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BA University of MO Kansas City 2006
MD University of MO Kansas City 2006

Patricia F Kao, MD, BE, MS2
Associate Professor of Medicine (primary appointment)
MD Case Western Reserve Univ 2001
BE Princeton University 1994
MS2 Ohio State University 1997

Divya Kapoor, MD
Assistant Professor of Medicine (primary appointment)
MD University of Washington 2002

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

Shashi Krishna Katukoori, MD, MS
Instructor in Medicine (primary appointment)
BS Kakatiya Medical College 2004
MD Saint Louis University 2011
MS Eastern Kentucky University 2010

Andrew L. Kau, PhD, MD
Assistant Professor of Medicine (primary appointment)
PHD Washington St University 2006
BA Emory University 1998
MD Washington Univ in St. Louis 2006

Charles Kaufman, PhD, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Developmental Biology
BA Washington Univ in St. Louis 1997
PHD University of Chicago 2003
MD University of Chicago 2005

Robert L Kaufman, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1963
BA Washington Univ in St. Louis 1959

Brandon David Kayser, PhD
Instructor in Medicine (primary appointment)
BS Chapman University 2007
PHD University of Southern Calif 2014

Elizabeth Jane Keath, PhD
Associate Professor of Medicine (primary appointment)
BA University of MO St Louis 1978
BA University of MO St Louis 1978
PHD Saint Louis University 1985

Dalis Kedainis, MD
Instructor in Clinical Medicine (primary appointment)
MD Kaunas University of Medicine 1998

Eirini Kefalogianni, PhD
Instructor in Medicine (primary appointment)
BS University of Athens 2002
PHD University of Athens 2007

Timothy Lee Kella, MD
Instructor in Emergency Medicine in Medicine (primary appointment)

MD Saint Louis University 1982
BA Saint Louis University 1978

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

Daniel P Kelly, MD
Adjunct Professor of Medicine (primary appointment)
MD University of Illinois 1982
BS University of Illinois 1978

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

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)
MD Jefferson Medical College 2005
BS Saint Josephs University 2001

Ahmed Sultan Khan
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

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

Kenneth Richard Kilian, MD
Instructor in Clinical Medicine (primary appointment)
BS Saint Louis University 1980
MD Saint Louis University 1984
Charles John Kilo, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1991
BA University of Kansas 1987

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

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

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

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

Sun-Joong Kim, PHD
Instructor in Medicine (primary appointment)
BS Hannam University 2004
PHD Korea University 2012

Helen Young Kim-James, MD
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)
BA City College 1970
MD Temple University 1984

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

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

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

Erik Paul Kirk, MS, PHD
Adjunct Assistant Professor of Medicine (primary appointment)
MS University of Kansas 2001
BS Drury College 1999
PHD University of Kansas 2004

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

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

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

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

Robyn Sue Klein, MS, PHD, MD
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
PHD Albert Einstein College of Med 1993
BA Barnard College 1985
MD Albert Einstein College of Med 1993

Samuel Klein, MD, MS
Danforth Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
BA Brandeis University 1974
MD Temple University 1979
MS Mass Inst of Technology (MIT) 1984

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

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

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

Kathryn Knoop, PHD
Assistant Professor of Medicine (primary appointment)
PHD Emory University 2011
BS Drake University 2006

Carolyn Koenig, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2002

Adam C Koertner
Instructor in Clinical Emergency Medicine in Medicine (primary appointment)

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

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

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

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

Mary E. Koly, MD
Instructor in Clinical Medicine (primary appointment)
BA University of MO Kansas City 1995
MD University of MO Kansas City 1995

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Instructor in Medicine (Pending Dean's Approval) (primary appointment)
BS University of Texas Austin 2012
MD Baylor College of Medicine 2016

Kevin L Konzen, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Illinois 1984
BA University of Notre Dame 1980

Robert G Kopitsky, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS Emory University 1978
MD Duke University 1982

Kevin Marc Korenblat, MD
Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1996

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Professor of Clinical Medicine (primary appointment)
MD University of Arkansas 1960
BA University of Arkansas 1957

Stuart A Kornfeld, MD

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Professor of Biochemistry and Molecular Biophysics
MD Washington Univ in St. Louis 1962
BA Dartmouth College 1958

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Instructor in Clinical Medicine (primary appointment)
BS Washington Univ in St. Louis 1975
MD Saint Louis University 1980

Attila Kovacs, MD
Professor of Medicine (primary appointment)
BA Amherst College 1987
MD Johns Hopkins University 1991

Melissa Renae Kroll, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
MD University of Iowa 2013
BA Dordt College 2009

Ronald J Krone, MD
Professor of Medicine (primary appointment)
John E Simon Scholar in Medicine
MD University of Chicago 1966
BS University of Michigan 1962

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BS McGill University 1977
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Instructor in Clinical Medicine (primary appointment)
BS University of Illinois 1982
MD Saint Louis University 1986

Ralph F Kuhlman, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Illinois 1964

Frederick Matthew Kuhlmann, MD
Assistant Professor of Medicine (primary appointment)
MD Emory University 2002
Anthony Kulczycki Jr, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Molecular Microbiology
BA Princeton University 1966
MD Harvard University 1970

Devesha Hrishikesh Kulkarni, PHD
Instructor in Medicine (primary appointment)
BS University of Pune 2006
PHD Technische U Braunschweig 2013

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Instructor in Medicine (primary appointment)
MBBS Seth G.S. Medical College 2009

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Instructor in Clinical Medicine (primary appointment)
BS University of Georgia 1992
PHD Washington Univ in St. Louis 2000
BS1 University of Georgia 1992
MD Washington Univ in St. Louis 2000

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Instructor in Clinical Medicine (primary appointment)
BA Hendrix College 1997
MD University of Arkansas 2001

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

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Associate Professor of Medicine (primary appointment)
MD Ohio State University 2006
BS University of Utah 2002

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Assistant Professor of Medicine (primary appointment)
BA Univ of IL -Urbana-Champaign 2005
DOCT Chicago Coll of OsteopathicMed 2009
BS Univ of IL -Urbana-Champaign 2005

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Assistant Professor of Medicine (primary appointment)
MD University of Ghana Medical Sc 1998
PHD University of New Mexico 2007
MS University of Ghana Medical Sc 2003

Albert Max Lai, MA, PHD, M PHIL, MS
Associate Professor of Medicine (primary appointment)
Associate Professor of Computer Science and Engineering
MA Columbia University 2004
BS Columbia University 2000

PHD Columbia University 2007
M PHIL Columbia University 2005
MS Columbia University 2001

Roop Lai, MS
Instructor in Clinical Medicine (primary appointment)

Michael A. Lane, MD, MS
Associate Professor of Medicine (primary appointment)
MD Drexel University 2004
MS John Hopkins University 2000
BA Colgate University 1995

Gabriel David Lang, MD
Assistant Professor of Medicine (primary appointment)
BA Northwestern University 2004
MD University of Illinois Chicago 2009

Gregory Mark Lanza, MD, MS, PHD
Professor of Medicine (primary appointment)
James R Hornsby Family Professor in Biomedical Sciences
Professor of Biomedical Engineering
BA Colby College 1975
MD Northwestern University 1992
MS University of Georgia 1978
PHD University of Georgia 1981

Gina N LaRossa, MD
Assistant Professor of Medicine (primary appointment)
BS Yale University 2001
MD Yale University 2007

Shane Joseph LaRue, MD
Associate Professor of Medicine (primary appointment)
MD Medical College of Wisconsin 2005

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

Steven A Lauter, MD
Associate Professor of Medicine (primary appointment)
BS Wayne State University 1967
MD Wayne State University 1971

Kory J. Lavine, PHD, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Developmental Biology
Assistant Professor of Pathology and Immunology
BS University of Rochester 2001
PHD Washington Univ in St. Louis 2008
MD Washington Univ in St. Louis 2008

Steven Jay Lavine, MD
Professor of Medicine (primary appointment)
BA Temple University 1972
MD Temple University 1976

Steven J Lawrence, MD, MS
Associate Professor of Medicine (primary appointment)
BS Rose Hulman Institute 1992
MD Washington Univ in St. Louis 1997
MS University of London 2004

Eileen May Lee, MD
Assistant Professor of Medicine (primary appointment)
BA University of Iowa 2002
MD University of Iowa 2006

Kim Lynette Lee, MD
Instructor in Clinical Medicine (primary appointment)
BS Washington Univ in St. Louis 1979
MD Saint Louis University 1983

Wang Sik Lee, MA, PHD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MA Korea University Medical Coll 1982
BA Korea University Medical Coll 1978
PHD Korea University Medical Coll 1990

Robert B Lehman, MD
Instructor in Clinical Medicine (primary appointment)
BA Texas Tech University 1977
MD Texas Tech University 1982

Daniel John Lenihan, BA1, MD
Professor of Medicine (primary appointment)
BA University of Tennessee 1984
BA1 University of Tennessee 1984
MD University of Tenn Memphis 1988

Deborah J. Lenschow, MD, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
MD University of Chicago 1998
BA Wittenberg University 1990
PHD University of Chicago 1995

Daisy W Leung, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Biochemistry and Molecular Biophysics
Associate Professor of Pathology and Immunology
BS Amherst College 1997
PHD University of Texas Southwest 2005

Marc Stephen Levin, MD
Professor of Medicine (primary appointment)
MD Columbia University 1981
BS Mass Inst of Technology (MIT) 1977

Mark D Levine, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
BA Washington Univ in St. Louis 1991

MD New York University 1996

Lawrence M Lewis, MD, AA
Professor of Emergency Medicine in Medicine (primary appointment)
MD University of Miami 1976
AA University of Florida 1972

Timothy J Ley, MD
Lewis T and Rosalind B Apple Professor of Medicine (primary appointment)
Professor of Genetics
BA Drake University 1974
MD Washington Univ in St. Louis 1978

Han Li, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
BS University of Michigan 2011
MD Washington Univ in St. Louis 2016

Li Li, PHD, MD
Instructor in Clinical Medicine (primary appointment)
PHD Loyola University Chicago 1998
MD Shanghai Medical University 1988

Shunqiang Li, PHD
Assistant Professor of Medicine (primary appointment)
MD State Univ of NY Buffalo 1999

Tingting Li, MD
Associate Professor of Medicine (primary appointment)
MD State Univ of NY Buffalo 1999

Stephen Yuan-Tung Liang, BA1, MD
Assistant Professor of Medicine (primary appointment)
BA Cornell University 1998
BA1 Cornell University 1998
MD University of Maryland 2004

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

Stephen Bradley Lillard, MD
Instructor in Clinical Medicine (primary appointment)
MD Univ of Health Sciences KC 1970

Kian-Huat Lim, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD National Taiwan University 1999
PHD Duke University 2006

Elizabeth Laura Lin, MD
Instructor in Medicine (primary appointment)
Michael Yun Lin, MD
Associate Professor of Medicine (primary appointment)
BA Harvard University 1990
MD University of Iowa 1994

Kathryn Jesseca Lindley, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Obstetrics and Gynecology
MD Emory University 2007
BS University of Illinois 2003

Brian Richard Lindman, MA, MD
Adjunct Associate Professor of Medicine (primary appointment)
MA Reformed Theological Seminary 2001
BS Duke University 1997
MD Vanderbilt University 2003

Daniel C Link, MD
Alan A and Edith L Wolff Distinguished Professor of Medicine
Professor of Pathology and Immunology
BS Univ of Wisconsin Milwaukee 1981
MD Univ of Wisconsin Milwaukee 1985

Michael Brayer Lippmann, MD
Professor of Medicine (primary appointment)
MD State University of New York 1977
BA State University of New York 1973

Mauricio Lisker-Melman, MD
Professor of Medicine (primary appointment)
MD National Autonomous U of Mex 1980

David B Liss, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of Illinois Chicago 2011
BS Northwestern University 2007

Mary Kathryn Liszewski
Assistant Professor of Medicine (primary appointment)
BA University of MO St Louis 1971

Patricia Elizabeth Litkowski, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2013

Adam Daniel Littich, MD
Assistant Professor of Medicine (primary appointment)
MD Saint Louis University 2009

Marina Litvin, MD
Assistant Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 2003
MD University of MO Columbia 2008

Jianmei Liu, MD, MS
Instructor in Clinical Medicine (primary appointment)
MD Shanghai Medical University 1984
MS Shanghai Medical University 1987

Xinping Liu, MS, PHD
Instructor in Medicine (primary appointment)
MS Southeast Missouri St Univer 1999
BS School Not Listed 1986
PHD Washington Univ in St. Louis 2005

Adam Edward Locke, PHD
Assistant Professor of Medicine (primary appointment)
BA Lawrence University 2003
PHD Emory University 2010

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

Beverly A Logan-Morrison, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1982
BA Webster University 1976

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

Gregory D Longmore, MD, MS
Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
BS University of Western Ontario 1977
MD McGill University 1983
MS University of Toronto 1979

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

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

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

Philip A Ludbrook, MBBS
Professor Emeritus of Medicine (primary appointment)
Professor Emeritus of Psychiatry
MBBS University of Adelaide 1963
BS School Not Listed 1957
Kenneth M Ludmerer, MD, MA
Professor of Medicine (primary appointment)
Mabel Dorn-Reeder Distinguished Professor of the History of Medicine
MD Johns Hopkins University 1973
BA Harvard University 1968
MA Johns Hopkins University 1971
Lauren Michelle Ludwig Lee, MD
Instructor in Clinical Medicine (primary appointment)
MD University of MO Kansas City 2008
Susan L Luedke, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Rochester 1972
Barbara A Lutey, MD, MLS
Assistant Professor of Medicine (primary appointment)
MD University of Iowa 1999
BA Indiana University Bloomington 1982
MLS Indiana University Bloomington 1983
Christopher Raymond Lynch
Instructor in Clinical Medicine (primary appointment)
John P Lynch, MD
Professor of Medicine (primary appointment)
BA Saint Louis University 1983
MD Georgetown University 1989
Alan P Lyss, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1976
BA Washington Univ in St. Louis 1972
Carl A Lyss, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1956
BS Washington Univ in St. Louis 1952
BA Washington Univ in St. Louis 1952
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)
MS Fudan University 1996
BA Qufu Normal University 1993
PHD Ocean University of China, Qin 2004
Liang Ma, PHD
Associate Professor of Medicine (Dermatology) (primary appointment)
Associate Professor of Developmental Biology
PHD University of CA Los Angeles 1995
BA University of CA Berkeley 1989
Ningning Ma, MD
Instructor in Medicine (primary appointment)
MD Case Western Reserve Univ 2013
BA Washington Univ in St. Louis 2009
Julie Kathleen MacPhee, MD
Instructor in Clinical Medicine (primary appointment)
MD Albert Einstein College of Med 2008
BS Trinity College 2003
Thomas M Maddox, MS, MD
Professor of Medicine (primary appointment)
MS Harvard University 2007
BA Rice University 1993
MD Emory University 1999
Blair B Madison, PHD
Assistant Professor of Medicine (primary appointment)
BS Washington Univ in St. Louis 1998
PHD University of Michigan 2005
William Edwin Magee, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Duke University 1950
Leonard B Maggi Jr, PHD, BA1
Assistant Professor of Medicine (primary appointment)
BA Cornell College 1995
PHD Saint Louis University 2001
BA1 Cornell College 1995
Jambunathan Mahadevan
Instructor in Clinical Medicine (primary appointment)
Christopher A Maher, PHD
Associate Professor of Medicine (primary appointment)
Assistant Director of The Genome Institute
Associate Professor of Biomedical Engineering
PHD Stony Brook School of Medicine 2006
Nicole Maher, PHD
Assistant Professor of Medicine (primary appointment)
BA Ithaca College 1998
PHD Case Western Reserve Univ 2007
Mohamed Mahjoub, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
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
Elaine Michelle Majerus, MD, PHD
Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
BA Washington Univ in St. Louis 1986
Majesh Makan, MD  
Professor of Medicine (primary appointment)  
MD Univ of Panama School of Med 1984

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

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Assistant Professor of Medicine (primary appointment)  
BA Trinity College Dublin 2000  
MBCHB1 Royal College of Surgeons 2005

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

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

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

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

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

Jonas Marschall, MD  
Adjunct Assistant Professor of Medicine (primary appointment)  
MD University of Basel 1996

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

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

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

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

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

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

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

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

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

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

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

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

Kara H Mayes  
Instructor in Clinical Medicine (primary appointment)

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

Timothy Joseph McCann, MD  
Instructor in Clinical Medicine (primary appointment)  
MD American Univ of the Caribbean 1984  
BS Saint Louis University 1980  
Donte D McClary, MD
Instructor in Clinical Medicine (primary appointment)
MD Meharry Med College 1998
BS Xavier University 1993

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

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

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

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

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Assistant Professor of Medicine (primary appointment)
MD University of Tennessee 2001
BS Vanderbilt University 1997

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

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

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

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

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

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

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

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

Neha Mehta-Shah, MD
Assistant Professor of Medicine (primary appointment)
BA Northwestern University 2005
MD Northwestern University Med 2009

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

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

Marc Mendelsohn, MD
Assistant Professor of Emergency Medicine in Medicine
(Pending Executive Faculty Approval) (primary appointment)
MD Stony Brook School of Medicine 2013
BS Brandeis University 2006

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

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

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

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

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

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

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

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

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

Christopher A Miller, BS1, PHD
Assistant Professor of Medicine (primary appointment)
BS Truman State University 2005
BS1 Truman State University 2005
PHD Baylor University 2011

Heidi B Miller, MD
Instructor in Clinical Medicine (primary appointment)
MD Harvard University 2000
BS Yale University 1994

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

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

Jeffrey R Millman, PHD
Assistant Professor of Medicine (primary appointment)
BS North Carolina State University 2005
PHD Massachusetts Institute of Technology (MIT) 2011

Jason C Mills, MD1, PHD, AB, MD
Professor of Medicine (primary appointment)
Professor of Developmental Biology
Professor of Pathology and Immunology
MD1 University of Pennsylvania 1997
PHD University of Pennsylvania 1997

AB Washington Univ in St. Louis 1989
BA Washington Univ in St. Louis 1989
MD University of Pennsylvania 1997

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

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

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

Jonathan J Miner, PHD, MD
Assistant Professor of Medicine (primary appointment)
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)
BS John Hopkins University 2000
MD University of Texas Southwest 2008

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

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

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

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

C. Scott Molden, MD
Instructor in Clinical Medicine (primary appointment)
BA De Paul University 1968
MD Case Western Reserve Univ 1972
Hector D Molina-Vicenty, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
MD University of Puerto Rico 1985
BS University of Puerto Rico 1982

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

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, MS, PHD
Instructor in Medicine (primary appointment)
MS Yonsei University 1999
PHD Washington Univ in St. Louis 2006
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
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)

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

Aubrey R Morrison, MBBS
Professor of Medicine (primary appointment)
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, MD, PHD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MD Washington Univ in St. Louis 2013
PHD Washington Univ in St. Louis 2013

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

Faquir Muhammud
Instructor in Clinical Medicine (primary appointment)

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

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

Monalisa Mullick, MD
Instructor in Medicine (primary appointment)

Michael E Mullins, MD
Associate Professor of 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

Haris Farooq Murad
Assistant Professor of Medicine (primary appointment)

Jacob Gregory Murray, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MD Des Moines Universitly 2016
BS University of Iowa 2011
Amy Musiek, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
BS College of William and Mary 1999
MD Vanderbilt University 2004
Dharushana Muthulingam, MS, BA1, MD
Instructor in Medicine (primary appointment)
MS University of CA Berkeley 2009
BA1 University of CA Berkeley 2005
BA University of CA Berkeley 2005
MD University of CA San Francisco 2012
Umadevi Muthyala
Instructor in Clinical Medicine (primary appointment)
Anubha Mutneja, MBBS
Assistant Professor of Medicine (primary appointment)
MBBS Maulana Azad Medical College 2009
Mulhti Mwanthi, PHD, MD, BS1
Assistant Professor of Medicine (Dermatology) (primary appointment)
PHD Indiana State University 2014
MD Indiana State University 2014
BS1 Clearwater Christian College 2004

N
Devika Nagaraj
Instructor in Clinical Medicine (primary appointment)
Eina M Nagasako, MD, PHD
Assistant Professor of Medicine (primary appointment)
BS Pomona College 1991
MD Washington Univ in St. Louis 2007
PHD University of Rochester 2001
Jyotirmaya Nanda
Instructor in Clinical Medicine (primary appointment)
Nicola Napoli
Adjunct Research Assistant Professor of Medicine (primary appointment)
Humaira K Naseer, MD
Instructor in Medicine (primary appointment)
MD Dow Medical College Karachi 1986
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Instructor in Medicine (Pending Dean's Approval) (primary appointment)
Michael J. Naughton, MD
Associate Professor of Medicine (primary appointment)
MD State Univ of NY Buffalo 1993
BA Williams College 1989
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BA Carleton College 1970
MD University of Chicago 1978
Robert F Nease Jr, MA, PHD
Adjunct Associate Professor of Medicine (primary appointment)
MA Stanford University 1981
BS University of California 1980
PHD Stanford University 1989
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Instructor in Clinical Medicine (primary appointment)
BS City College 1970
MD Loyola University Chicago 1974
Jeanne M Nerbonne, PHD
Professor of Medicine (primary appointment)
Alumni Endowed Professor of Molecular Biology and Pharmacology in Developmental Biology
PHD Georgetown University 1978
BS Framingham State College 1974
Elizabeth P. Newberry, PHD
Assistant Professor of Medicine (primary appointment)
PHD Washington Univ in St. Louis 1995
BA Knox College 1988
Rodney D Newberry, MD
Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 1987
MD Washington Univ in St. Louis 1991
Amy C Ney, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
MD University of Virginia 2001
BS Mary Washington College 1997
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Assistant Professor of Medicine (primary appointment)
MD1 Wayne State University 1993
BS1 University of Michigan 1989
BS University of Michigan 1989
MD 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 (Pending Dean's Approval) (primary appointment)
MD University of Illinois 2016
BS University of Illinois Chicago 2011
Joan P Noelker, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Royal College of Surgeons 2010
BA University of Virginia 2004

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MS Harvard University 2007
MD All-India Inst of Medical Sci 2006

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BA Columbia University 1969
MD State University of New York 1973

Tracy Wynette Norfleet, MD
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MD Louisiana St Univ Hlth Sci 2002
BS Xavier University Louisiana 1998

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BS University of CA Berkeley 1999
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MD School Not Listed 1973

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UNKNOWN Govt College Sarhodha 1968

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BA University of Kansas 1972
MD School Not Listed 1977

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BA Miami University 1980
MD University of Cincinnati 1984

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

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

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

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

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

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

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

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

Robert F Onder Jr, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1983
MD Washington Univ in St. Louis 1987

Peter J. Oppelt, MD
Assistant Professor of Medicine (primary appointment)
MD University of MO Columbia 2008
BS Saint Louis University 2004

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Haeseong Park, MS, MD**  
Assistant Professor of Medicine (primary appointment)  
MS Johns Hopkins University Medic 2007  
BS Seoul National University 2001  
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)  
MBA Southern Illinois University 1985  
BS University of MO Rolla 1979  
MD Saint Louis University 1994

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

**Dilip H. Patel**  
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

Rajiv Nanu Patel, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saba University School of Med 2001  

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

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

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

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

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

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

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

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

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

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

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

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)  
MD Tulane University 2006  
BS Tulane University 2000  

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

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

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

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

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

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

Stephen J Pieper, MD  
Instructor in Medicine (primary appointment)  
MD Washington Univ in St. Louis 1988
Mark Alan Pinkerton II, MD  
Instructor in Medicine (Pending Dean's Approval) (primary appointment)  
MD University of Mississippi 2016  
BS University of Alabama 2012

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

Beatrice Plougastel Douglas, PHD  
Instructor in Medicine (primary appointment)  
PHD University of Pierre et Marie 1994

Nishant Poddar, MBBS  
Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MBBS Veer Surendra Sai Medical Coll 2000

Doug Pogue, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1996

Robert Francis Poirier Jr, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD American U of Carribean SchMed 1999

Donovan Polack, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD Cornell University 1979

Gregory Polites, MD  
Associate Professor of Emergency Medicine in Medicine (primary appointment)  
MD University of Illinois Chicago 1996

Kenneth S Polonsky, MBBCH  
Adjunct Professor of Medicine (primary appointment)  
MBBCH University of the Witwatersra 1973

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

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

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

Lee S Portnoff, MA, MD  
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)  
BS Purdue University 1972

MA University of California 1974  
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)  
BS University of Notre Dame 1967  
MD University of Michigan 1971

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

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

Lawrence Prablek, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BA Texas Christian University 1984  
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  
PHD Washington Univ in St. Louis 2001  
BA Scripps College 1990

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

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

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

Usman Qayyum
Instructor in Clinical Medicine (primary appointment)

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

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

Abdul H Qureshi, MS
Instructor in Clinical Medicine (primary appointment)
MS School Not Listed 1992

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

Srinivasan Raghavan
Instructor in Clinical Medicine (primary appointment)

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

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

Srinivasan Dubagunta Rao
Adjunct Instructor in Medicine (primary appointment)

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

Instructor in Clinical Medicine (primary appointment)

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

Lee Ratner, MD, MA, PHD
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

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

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

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

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

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

Arhaanth D Reddy
Instructor in Clinical Medicine (primary appointment)

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

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

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

Lester T Reese, MD
Professor of Clinical Medicine (Dermatology) (primary appointment)
MD Tulane University 1966
BS Tulane University 1962

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

Margaret Reiker, UNKNOWN, MD, PHD
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UNKNOWN Saint Louis University 1986
MD Saint Louis University 1993
PHD Saint Louis University 1991

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Professor of Clinical Medicine (primary appointment)
BA University of Missouri 1979
MD University of Missouri 1983

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BA University of MO Kansas City 1989
MD University of Missouri 1990

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

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

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Associate Professor of Biomedical Engineering
Associate Professor of Developmental Biology

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

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

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BA University of Illinois 1974
MD University of Illinois 1979

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

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BS Univ of Wisconsin Madison 2001

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MD Tulane University 2000
BFA Tulane University 1996

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BA Vanderbilt University 2009
MD University of Alabama 2013

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

Tracy Marie Riordan, MD
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BA Saint Louis University 1996
MD Saint Louis University 2000

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Assistant Professor of Medicine (primary appointment)
Assistant Professor of Genetics
BS Western Kentucky University 2004
PHD Johns Hopkins University 2009
Paul Arthur Robiolio, M PHIL, MD
Assistant Professor of Clinical Medicine (primary appointment)
M PHIL Cambridge University 1985
BS Haverford College 1983
MD Washington Univ in St. Louis 1989

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

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MD Tehran University 1988

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 Saint Louis University 1981

Michael B Rusche
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

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

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

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

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

Sonny Satnam Saggar
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

Christine Joan Salter, MD, DC

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

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

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

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

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

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

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

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

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

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

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

Evelio E. Sardina, PHD, MD, MS
Instructor in Clinical Medicine (primary appointment)
Richard Urban Schmidt Jr
Instructor in Emergency Medicine in Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

Lynne M Seacord, MD
Associate Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1983
David Seltzer, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Southeastern Illinois College 1993

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

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

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

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

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

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

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

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

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

Rajiv Kumar Sharma
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Sudhir Man Singh
Instructor in Medicine (primary appointment)

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

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

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

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

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

BA Vassar College 1980

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

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

Michael C Snyder
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

Michael L Spearman, MD
Instructor in Clinical Medicine (primary appointment)
BS Kansas State University 1978
Andrej Spec, MD  
Assistant Professor of Medicine (primary appointment)  
BS Loyola University Chicago 2005  
MD University of Illinois 2010

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

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

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

Emily Steiner, MD  
Instructor in Medicine (primary appointment)  
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)  
BA State Univ of NY Buffalo 2004  
MD New York Medical College 2008

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

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)  
MD University of Missouri 1984  
BA Stanford University 1976

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

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

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

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

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

Hamsa Subramanian, UNKNOWN  
Instructor in Clinical Medicine (primary appointment)  
BS St. Joseph's Convent - Trichy 1986  
UNKNOWN Thanjore Medical College 1990

Hani Suleiman, MD  
Assistant Professor of Medicine (primary appointment)  
MD Regensburg University 2007

Kaharu Sumino, 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)
MD University of AL Birmingham 1999
BS University of Alabama 1994
Rama Suresh, MBBS
Associate Professor of Medicine (primary appointment)
MBBS University of Madras 1993
Rudee Suwannasri, MD
Instructor in Clinical Medicine (primary appointment)
BS Chiang Mai University 1971
MD Chiang Mai University 1973
Bridgette B Svan carek, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of MO Columbia 2006
BA Saint Louis University 2001
Elzbieta Anna Swietlicki, MS, PHD
Assistant Professor of Medicine (primary appointment)
MS Medical Academy Lodz 1975
PHD Medical Academy Lodz 1981

T

Lanesia K Tague, MD
Instructor in Medicine (primary appointment)
BS Northwestern University 2007
MD Northwestern University Med 2011
Mohammad Tahir, MD
Instructor in Clinical Medicine (primary appointment)
MD Dow Medical College Karachi 1976
Rudee Suwannasri, MD
Instructor in Clinical Medicine (primary appointment)
BS Chiang Mai University 1971
MD Chiang Mai University 1973
Kongsak Tanphaichitr, MD
Professor of Clinical Medicine (primary appointment)
MD Siriraj Medical School 1970
Richard S Tao, MIM, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
MIM Indiana State University 1999
BA Indiana State University 1991
MD Indiana State University 1995
Arnold S Tepper, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1970
BS School Not Listed 1966
Wanda T Terrell, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1979
BA Washington Univ in St. Louis 1975
Larissa Bryka Thackray, PHD
Associate Professor of Medicine (primary appointment)
PHD U of Colorado Health Sci Ctr 2003
BS Cornell University 1991
George K. Thampy, MD
Instructor in Clinical Medicine (primary appointment)
MD Kerala University 1977
Shaukat Thanawalla
Instructor in Clinical Medicine (primary appointment)
Daniel Leonidas Theodoro, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
MD Brown University 1997
J. Allen Thiel, MD
Associate Professor of Clinical Medicine (primary appointment)
BS Rockhurst College 1956
MD Saint Louis University 1960
Mark S Thoelke, MD, PHD
Professor of Medicine (primary appointment)
MD University of Illinois 1990
BS University of Illinois 1982
PHD University of Illinois 1990
Alex Anthony Thomas, MD
Instructor in Medicine (primary appointment)
MD University of Louisville 2015
Benjamin S Thomas, MD
Adjunct Instructor in Medicine (primary appointment)
BS Georgia Tech 2002
MD Mercer University Macon 2009
Theodore Seth Thomas, M PH, MD, MS
Instructor in Medicine (primary appointment)
BS University of MO Columbia 2005
M PH Washington Univ in St. Louis 2017
MD University of MO Columbia 2010
MS University of MO Columbia 2006
Erik P Thyssen, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS University of Copenhagen 1980
MD University of Copenhagen 1984
LinLin Tian, PHD
Instructor in Emergency Medicine in Medicine (primary appointment)
PHD Beijing Institute of Radiation 2009
BS Hebei Medical University 2004

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

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

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

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

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

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

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

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

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

Sandeep Kumar Tripathy, 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 Fiance Professor of Pulmonary Medicine in Medicine (primary appointment)
BS Emory University 1968
Justin Marinus Vader, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of Texas Southwest 2006

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

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

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

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

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

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

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

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

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

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

Ravi Vij, MBBS  
Professor of Medicine (primary appointment)  
BS Delhi University 1991  
MBBS Maulana Azad Medical College 1991

Anitha Vijayan, MD  
Professor of Medicine (primary appointment)  
MD University of the West Indies 1990

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

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

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

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

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

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

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

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

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

David Wallace, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Saint Anselm College 1980  
MD Saint Louis University 1984
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Institution Dates</th>
</tr>
</thead>
</table>
| Laura A Wallace, MD         | Instructor in Emergency Medicine (primary appointment) | BA Indiana University Indianapolis 2017  
                                    MD Ohio State University 2012 |
| David A Walls, MD           | Instructor in Clinical Medicine (primary appointment) | MD Southern Illinois University 1982  
                                    BA Southern Illinois University 1979 |
| Sarah N. Walsh              | Instructor in Clinical Medicine (Dermatology) (primary appointment) | MD Southern Illinois University 1982  
                                    BA Southern Illinois University 1979 |
| Matthew John Walter, MD     | Professor of Medicine (primary appointment)    | BS The American University 1990  
                                    MD Saint Louis University 1995 |
| Richard Coburn Walters, MD | Instructor in Clinical Medicine (Dermatology) (primary appointment) | BS University of Illinois 1969  
                                    MD Washington Univ in St. Louis 1973 |
| Jean S Wang, PHD, MD        | Professor of Medicine (primary appointment)    | BS University of Virginia 2006  
                                    MD Virginia Comm University 2016 |
| Lawrence L. Wang, MD, PHD   | Instructor in Clinical Medicine (Dermatology) (primary appointment) | MD Washington Univ in St. Louis 2001  
                                    BA Harvard University 1993  
                                    PHD Washington Univ in St. Louis 2001 |
| Leyao Wang, PHD, M PH       | Instructor in Medicine (primary appointment)   | BA Nankai University 2017  
                                    PHD Fudan University 2017  
                                    M PH Johns Hopkins University 2017 |
| Andrea Wang-Gillam, MD, BS1 | Associate Professor of Medicine (primary appointment) | BS Ouachita Baptist University 1993  
                                    MD University of AR Little Rock 2001  
                                    BS1 Ouachita Baptist University 1993 |
| Salama Naheed Waqar, MD     | Associate Professor of Medicine (primary appointment) | MD Aga Khan University 2001 |
| Jeffrey Peter Ward, MD, PHD | Assistant Professor of Medicine (primary appointment) | MD SUNY - Empire State College 2010  
                                    BS Wilkes University 2002 |
| Corinna Hendrell Warren, MD | Instructor in Clinical Medicine (primary appointment) | BS Southern III Univ Edwardsville 1990  
                                    MD University of Illinois Chicago 1994 |
| David K. Warren, MPH, MD    | Professor of Medicine (primary appointment)    | BS Pennsylvania State University 1990  
                                    MD University of Pittsburgh 1994 |
| Lukas Delbert Wartman, MD   | Assistant Professor of Medicine (primary appointment) | BS Univ of Wisconsin Madison 1998  
                                    MD Washington Univ in St. Louis 2005 |
| Scott P Wasserstrom, MA, MD | Instructor in Clinical Medicine (primary appointment) | MA Washington Univ in St. Louis 1995  
                                    BS University of Illinois 1990  
                                    MD University of St. Louis 1995 |
| James Richards Watson, MD   | Instructor in Medicine (Pending Dean's Approval) (primary appointment) | BS University of Virginia 2006  
                                    MD Virginia Comm University 2016 |
| Jason Dean Weber, PHD       | Professor of Medicine (primary appointment)    | BS Cornell University 1963  
                                    MD Cornell University 1967 |
| Xiaochao Wei, PHD           | Assistant Professor of Medicine (primary appointment) | BS Cornell University 1963  
                                    MD Cornell University 1967 |
| H. James Wedner, MD         | Phillip & Arleen Korenblat Professor of Allergy and Immunology in Medicine (primary appointment) | BS Cornell University 1963  
                                    MD Cornell University 1967 |
| Kevin D Weikart, MD        | Instructor in Clinical Medicine (primary appointment) | BS Cornell University 1963  
                                    MD Cornell University 1967 |
| Gary J Weil, MD             | Professor of Medicine (primary appointment)    | BS Cornell University 1963  
                                    MD Cornell University 1967 |
| Katherine N Weilbaecher, MD | Oliver M Langenbergh Distinguished Professor of Science and Practice of Medicine (primary appointment) | BS Cornell University 1963  
                                    MD Cornell University 1967 |
Professor of Pathology and Immunology
BA Harvard University 1987
MD Stanford University 1992

Carla Joy Weinheimer, MS
Associate Professor of Medicine (primary appointment)
MS Washington Univ in St. Louis 1997
BS University of Illinois 1984

Leonard B Weinstock, MD
Associate Professor of Clinical Medicine (primary appointment)
Assistant Professor of Clinical Surgery (General Surgery)
BA University of Vermont 1977
MD University of Rochester 1981

Steven Jay Weintraub, MD, MS
Associate Professor of Medicine (primary appointment)
MD University of Virginia 1985
MS University of Virginia 1981
BA State Univ of NY Binghampton 1978

Edmond Weisbart
Assistant Professor of Clinical Medicine (primary appointment)

Alan N Weiss, MD
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MD Tufts University 1983

Tanya M Wildes, MD
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BS Illinois Wesleyan University 1998
MD Washington Univ in St. Louis 2002
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<thead>
<tr>
<th>Name</th>
<th>Title</th>
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<tr>
<td>George A Williams III, MA, MD</td>
<td>Assistant Professor of Clinical Medicine</td>
<td>MA Columbia University 1968</td>
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<td></td>
<td>(primary appointment)</td>
<td>BA University of Notre Dame 1967</td>
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<td>MD Univ of Wisconsin Madison 1972</td>
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<td>Nancy J Williams, MD</td>
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<td>MD University of Kansas 1987</td>
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<td>R. Jerome Williams Jr, MD</td>
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<td>(primary appointment)</td>
<td>MD Duke University 1977</td>
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<td>Timothy John Williams, MD</td>
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<td>BA McKendree College 2008</td>
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<td>MD University of Cincinnati 2012</td>
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<td>Patrick H Win</td>
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<td>Karen Winters, MD</td>
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<td>Chad Alan Witt, MD</td>
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<td>Edward M Wolfe, MD</td>
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<tr>
<td>Gerald Wolff, MD</td>
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<td>John A Wood, MD</td>
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<td>Megan Elizabeth Wren, MD</td>
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<td>Jeffrey M Wright, MD</td>
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<tr>
<td>Haojia Wu, PHD</td>
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<td>PHD University of Hong Kong 2014</td>
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<td>Kangyun Wu, PHD</td>
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<td>Matthew A Wyczalkowski, MME, PHD</td>
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<td>MME University of CA Berkeley 2000</td>
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<td>Jun Xia, PHD</td>
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<td>Zhifu Xiang, PHD, MD</td>
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<td>Timothy Teng-Kay Yau, MD</td>
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<td>Derek Yee, MD</td>
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<td>Po-Yin Yen, PHD, MS</td>
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Courses
Courses include the following:
- M25 Medicine (p. 59)
- M27 Emergency Medicine (p. 67)

M25 Medicine
Visit online course listings to view offerings for M25 Medicine

M25 Medicine 507 Practice of Medicine I
POM I is a large course that spans all three blocks of the first year. It is composed of three content areas: Clinical Skills Patient, Physician, and Society Clinical Knowledge. Each of these three content areas has two or more sections, and each is run by a faculty section leader. POM I employs a variety of teaching techniques, instructors and venues. This includes lecture, small group discussions, panel sessions, one-on-one hospital interviews, standardized patient sessions, a patient home visit, and visits to both a primary care office and a city clinic. What are the educational goals of POM I? Students will learn to do the following: (1) Perform a complete history and physical examination with thoroughness, accuracy, sensitivity and compassion. (2) Communicate effectively, efficiently and compassionately with patients, families and other health professionals. (3) Describe and analyze the statistical methodology of clinical studies and apply the results to individuals and groups of patients. (4) Identify and investigate ethical, cultural, socioeconomic and political factors relevant to medical interactions. (5) Examine and analyze personal and professional competencies, limitations and behaviors. How do we accomplish these goals? (1) Learning skills and techniques requires a cycle of steps: preparation, background
reading, attempts at skill performance, analysis and reflection on performance, discussion of potential improvements and successive performance of the skill with advancement to a new level of expertise. (2) The focus is on learning skills. Students practice each skill (e.g., interviewing) in a variety of venues and situations of varying complexity. This course is for students to learn how to do things that they will use to take care of patients and families. (3) Students will work in multiple learning environments. (a) Academic environments: Small group sessions for discussion, small group practice sessions, peer learning, small group presentations, individual and group writing assignments, and reflections on experiences are the preferred learning locations. (b) Clinical environments: Inpatient units with faculty and WUSM IV mentors, standardized patient experiences with videotape review, physicians’ offices, patients’ homes with and without home care professionals, and a city clinic.

Credit 198.5 units.

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

Credit 51 units.

M25 Medicine 606A Rheumatology
A major focus of the course is teaching “how to think like a rheumatologist”, emphasizing the concept of clinical diagnosis: the history and physical generate a clinical hypothesis, which is supported by laboratory tests. Inflammatory arthritis (rheumatoid arthritis, 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, Radiology, Community and Public Health, Ethics and Health Policy Humanities, and Scientific Methods. The learning objectives for each section of POM II emphasize topics and skills used in all fields of medicine, and the majority of the course work will be taught in small groups or through clinical experiences.

Credit 89 units.

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

Credit 30 units.

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

Credit 22.5 units.

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

Credit 38 units.

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

Credit 8 units.

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

Credit 31 units.

M25 Medicine 620A Gastrointestinal and Liver Diseases/Nutrition

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

Credit 32 units.

M25 Medicine 625A Hematology and Oncology

The hematologic and oncologic course exposes students to common hematologic disorders and hematologic malignancies. The course utilizes lectures, clinical case discussions and practical sessions involving microscopy.

Credit 39 units.

M25 Medicine 707 Practice of Medicine III

Objectives: 1. To review challenges and dilemmas relevant to the practice of clinical medicine. 2. To examine clinical experiences from a variety of perspectives. In this course, themes and topics relevant to students in their clinical stage of training are discussed. Session formats include lecture, panel discussion and/or small group. As students exchange problematic scenarios and questions, the group develops potential solutions and management schemes. *Topics in the past have included: 1) Diversity 3.0 training; 2) Business of medicine; 3) Individualized Learning Objectives in clinical scenario; 4) PSQI; 5) Mock Deposition, Risk Management, and Adverse Patient Outcomes; 6) Compassion Fatigue, Resilience, and Burnout Part 1; 7) Compassion Fatigue, Resilience, and Burnout Part 2; 8) Caring for Incendiary Patients; 9) Diagnostic Error and Transitions of Care; 10) Strategies for Effective Teaching and Mentoring. Attendance at 8 out of 10 POM III sessions is required to pass this course. Students may use two absences for any reason and are recommended to save them for their ACES rotation, Labor & Deliver rotation, or an emergency.

Credit 39 units.

M25 Medicine 710 Medicine Clerkship

The Medicine clerkship provides supervised study of patients in both inpatient and ambulatory settings. For the inpatient rotations, students are assigned as clinical clerks to patients admitted to the general medical teaching services of Barnes-Jewish Hospital and Veterans Administration Medical Center. For the outpatient rotations, students learn primary care in internal medicine and family medicine at Barnes Jewish Hospital or community-based practices. Teaching is provided by the chief of service, attending physicians, house officers, consultants, chief residents, and regularly scheduled conferences. Formal instruction is given regarding core internal medicine topics during the clerkship. A minimum of 12 weeks is required: three consecutive four-week rotations.

Credit 482 units.

M25 Medicine 714 Ambulatory Clerkship: Emergency Medicine

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

Credit 154 units.

M25 Medicine 740 Dermatology Clerkship

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

Credit 154 units.

M25 Medicine 750 Geriatrics Clerkship

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

Credit 154 units.

M25 Medicine 801 General Medicine Subinternship — BJH

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

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

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

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

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

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

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

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

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

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

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

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

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

M25 Medicine 834 Clinical Mentoring
This elective is designed to develop the teaching and mentoring skills of our fourth-year medical students through structured hospital sessions with first-year medical students. The primary format of the elective is observation of two first-year students during hospital sessions that span from September-April. During these hospital sessions the first-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) students and supervise them throughout the clinic day. The fourth-year student will supervise and assist as the pre-clinical student completes the patient history and physical, presents the exam results to the physician, and writes the visit note for multiple patients. The pre-clinical student will complete one patient note without assistance, which the fourth-year student will thoroughly review, edit, and return to the pre-clinical student, along with constructive feedback regarding the pre-clinical's general performance. The attending present at the Saturday Neighborhood Clinic will verify that the fourth-year mentor fulfilled the specified mentoring requirements. Additional practice sessions to review exam skills, note writing, and communication are optional and can be individually arranged between teams so that the fourth-year mentor can assist the first-year student on personalized skills. There will also be a reading presentation required. The fourth-year students taking this elective will break into groups of three or four members. Each group will be responsible for presenting a one-hour
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 faculty member who rounds with them every day. They attend teaching rounds and conferences and lectures led by 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 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 thrombophelia and bleeding; 4. Discern the principles of blood banking and pheresis. The students will have the opportunity to follow patients with sickle cell disease and understand the treatment of this disorder. The student is expected to attend and participate in the weekly hematology conference.

M25 Medicine 847 Bone and Mineral Diseases
The course is designed to acquaint the student with the clinical, radiological and pathological manifestations and treatment of disorders of bone and mineral metabolism, including osteoporosis, Paget’s disease of bone, hyperparathyroidism, osteomalacia, and more rare disorders of bone development and homeostasis. The student will rotate through clinics of the Division of Bone and Mineral Diseases, and see patients at Barnes-Jewish Hospital, Barnes-Jewish West County Hospital and Shriners Hospital for Children. Acquired and heritable bone diseases will be studied in the context of derangements of mineral homeostasis with emphasis on vitamin D and peptide hormone metabolism and skeletal formation and remodeling. The role of non-invasive methods for measuring bone mass in the diagnosis and management of skeletal diseases also will be stressed. Faculty and taught 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 scheduled in pairs. Learning objectives are as follows: (1) Demonstrate knowledge of basic principles of skin cancer, including how to detect skin cancer and how to decrease risk with photoprotection. (2) Effectively communicate this knowledge to children/adolescents.

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

M25 Medicine 854 Transplant Infectious Diseases
Study of infectious diseases in patients who have had bone marrow or solid organ transplants, or who have a hematologic malignancy. The elective is designed to teach students the fundamentals of evaluating clinical infections in a case complex and interesting patients and formulating plans for workup and therapy. Students see consultations in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with...
infectious disease fellows, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics, antifungal and antiviral agents in this highly immune suppressed population. A wide distribution of infectious diseases is covered including management of neutropenic fever, invasive fungal infections in the transplant population, acute and chronic infections, infection prophylaxis and monitoring and interactions between immunosuppressive agents and antibiotics.

M25 Medicine 858 Ambulatory Infectious Diseases
The elective is designed to teach students the fundamentals of evaluating clinical infections in the outpatient setting. Students see patients under the supervision of a faculty member. Students will participate in the care of HIV-infected or otherwise immunosuppressed patients as well as general infectious disease and travel patients. The clinic is the primary provider for HIV-infected patients, and students will learn the pathogenesis of HIV, become familiar with most antiretroviral medications, and have the opportunity to learn about opportunistic infections and their prophylaxis. They will also have the opportunity to see patients with bone and joint infections, endovascular infections, endemic and opportunistic mycoses, mycobacterial infections, sexually transmitted diseases, and many other infections. Patients seen will have a wide range of acute and chronic infections, and will include indigent and insured patients across a wide range of ages. The students will play an important role in the management of these patients and will present their assessments and plans to the supervising attending. They are expected to write clinic notes, read the literature about their patients, and participate in clinical conferences.

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

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

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

M25 Medicine 869 Palliative Medicine
The Palliative Medicine elective will focus on the care of patients with life-threatening or debilitating illness throughout the course of their care. Skills in symptom management, communication, and interdisciplinary team-based care will be the focus. Students will spend the majority of their time on the BJH Palliative Care Service. Based on the individual student’s interest, there may also be opportunities to work with the 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 completing charting 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 setting. 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; interested students should speak with the fellows and faculty members to customize the learning experience to match their career goals. At the end of the rotation, it is expected that students will have the ability to initiate the inpatient and outpatient management of diabetes, including insulin dosing and glucose monitoring, and evaluate and treat a variety of endocrine disorders, including but not limited to thyroid, pituitary, and adrenal disease. Students will learn to perform effective inpatient and outpatient consultations.

M25 Medicine 871 Oncology — Outpatient
Students will gain experience in the initial treatment of newly-diagnosed malignancies and the outpatient management of oncology patients. Participation in multidisciplinary tumor conferences will stress a combined-modality approach to management, incorporating chemotherapy, radiotherapy and surgery. Students will see patients with a variety of malignancies, including lymphoma, myeloma, and tumors of the lung, breast, and colon. Management of hypercalcemia and other paraneoplastic syndromes, as well as cancer pain management, will be covered. Students will have the opportunity to see how most oncologists spend 90 percent of their workday. They will observe different styles that oncologists use when presenting news about prognosis, treatment options, and other information to patients while they also learn about the molecular basis for cancer, the mechanisms of action for our therapies (particularly the newer agents which target specific molecular abnormalities), and the key studies that justify the use of therapies (e.g., randomized studies showing that after surgery, chemotherapy will reduce the risk of recurrence from a particular cancer with a particular regimen). By spending time with clinicians, students will learn how to identify hereditary syndromes, use drugs for symptom relief, and also learn how radiographic and laboratory tests allow oncologists to care for patients.

M25 Medicine 877 Intensive ECG Interpretation
During this two-week elective, students will read 20 to 25 ECGs obtained from the Barnes-Jewish Cardiac Diagnostic Laboratory, with an overread by an experienced electrocardiographer. There will also be didactic sessions covering infarction, ventricular hypertrophy, heart block, arrhythmias, and aberrant conduction.

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

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

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

M25 Medicine 887 Clinical Cardiovascular Medicine

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

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

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

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

**M27 Emergency Medicine**

**M27 EMED 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.