Instruction in Medicine is provided during all four years of the medical curriculum, beginning with Practice of Medicine I (Medicine 507) in the first year. Teaching in the second year has two main objectives: the correlation of the basic sciences with clinical aspects of disease and training in the technical methods of physical examination and laboratory diagnosis. By the beginning of the third year, the student is ready for 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. In the final year, students may elect 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. 5), 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 development of novel antithrombotic approaches for use during acute myocardial infarction, stroke, and surgery where 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

The 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

Genetic pathways for 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 U.S., 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.

Thomas M. DeFer, MD
6604 Wohl Hospital
Phone: 314-362-8050
Email: tdefer@wustl.edu

Special Projects in Medical Education. Through special arrangement with and approval by the course master, fourth-
year students will participate in special projects in medical education. 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, student experience, and/or administration of the Internal Medicine Clerkship or the Sub-Internship. Interested students should contact the course master via phone or email to discuss the proposed project. Those who are interested but would like guidance in designing a project should also contact the course master. This is open only to Washington University School of Medicine students.

Matthew Ellis, MB, BChir, PhD
Southwest Tower, Room 724
Phone: 314-747-3613

Genomics of Breast Cancer. The demonstration that the HER2 gene was amplified in breast cancer heralded the "genomic era" for this disease which ultimately led to major clinical advances for HER2-positive disease. The HER2 discovery was based on a search for cancer-specific anomalies in the cellular homologs of the acutely transforming retroviral oncogenes described in birds and mammals. However, HER2 gene amplification is now recognized to be only one of a large number of somatic mutations that occur in breast cancer. In the last 10 years, my clinical and laboratory efforts have focused on the development of a luminal (hormone receptor positive) breast cancer genome atlas to elucidate the complexity of the somatic changes in the breast cancer genome responsible for tumors resistant to current therapies. During these efforts we established a body of work on the practice of treating postmenopausal women with large palpable hormone receptor-rich tumors with four months of an aromatase inhibitor. The ultimate scientific goal of these efforts is to create specimen banks and biomarker data from thousands of patients to create sufficient statistical power to robustly link genomic screens to clinical outcomes so we can eventually focus our basic science efforts on the most lethal genetic events.

Over the last year, we have undertaken a comprehensive analysis of the tumor samples accrued, including "whole genome" gene expression chips, high resolution array comparative hybridization analysis and candidate gene sequencing. The gene lists we are currently generating, particularly those from the marriage of expression profiling and array comparative hybridization, suggest a host of new therapeutic targets are ready to be exploited. Functional characterization of these genes has begun, and this effort is a major focus in the laboratory. Elective students will focus on projects that relate to individual oncogene candidates. The scope of the project will be commensurate with elective time commitment but participation may include interpretation of genomic data, confirmatory studies on gene over-expression in cell lines and tissues, and functional studies using gene transfer, gene knock-down and pharmacological targeting to verify the identity of bona fide therapeutic targets for further investigation. Attendance at weekly lab meetings is expected.

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

Occupational medicine epidemiology and intervention research. My research involves the use of epidemiology methods to characterize associations between diseases and work-related exposures. I am 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 work site visits and intervention projects, as well as involvement with work site 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. The roles of phospholipases in mediating the metabolic syndrome and end-organ tissue damage.

Stacey House, MD, PhD
Phone: 314-362-8070
Email: houses@wusm.wustl.edu
or Lisa Hayes
Phone: 314-362-4362
Email: hayesli@wusm.wustl.edu

Emergency Medicine Clinical Research. Emergency medicine clinical research involves the gamut of research designs ranging from retrospective cohort studies ("The Use of B Hydroxy Butyrate Point-of-Care Testing in Diabetic Ketoacidosis"), to prospective clinical trials ("Biomarkers in Traumatic Brain Injury"), to the evaluation of health care systems and Emergency Department processes ("Effects of a Triage Process Conversion on the Triage of High Risk Presentations"), to analyzing 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 minimal risk. Students will be taught important rules regarding data acquisition and entry, particularly as it relates 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 ability for time commitment. Students will meet weekly with one of the course masters 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.

Keith A. Hruska, MD  
McDonnell Pediatric Research Building, 5th Floor  
Phone: 314-286-2772

Our laboratory’s focus is on two aspects of kidney diseases: the progression of chronic kidney disease (CKD), and the syndrome of the CKD-mineral bone disorder (CKD-MBD). The latter is an important cause of mortality associated with CKD. We have discovered the pathogenesis of the CKD-MBD in early stage 2 CKD. We have ongoing studies of CKD stimulated vascular calcification in which we have discovered the mechanism of atherosclerotic plaque calcification stimulated by phosphorus. We are analyzing phosphorus as a cardiovascular risk factor, and new therapies for chronic kidney disease, the CKD-MBD, and vascular calcification.

Stuart A. Kornfeld, MD  
Clinical Sciences Research Building, 8th Floor  
Phone: 314-362-8803

Synthesis, processing and sorting of glycoproteins, including lysosomal enzymes. Intracellular protein trafficking.

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

For students with math, physics and engineering background. Cardiovascular biophysics research elective concentrates on physiologic modeling and comparison of model predictions to in vivo human data. Minimum of eight weeks of elective time.

Jack Ladenson, PhD  
Phone: 314-454-8436

Development of monoclonal and single-chain antibodies for use in research and in diagnostic testing.

Marc S. Levin, MD, and Deborah C. Rubin, MD  
922/924 Clinical Sciences Research Building  
Phone: 314-362-8933, 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 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 following 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 it relates 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 production of transgenic and knockout mouse models, in situ hybridization and immunohistochemistry.

Jeffrey D. Milbrandt, MD, PhD  
101 Biotechnology Center  
Phone: 314-362-4650

We have several ongoing projects in our laboratory that focus on peripheral neuropathy and neurodegenerative diseases. (1) Using high throughput screening methods to dissect the molecular program responsible for dismantling injured and/or unhealthy axons with the goal of identifying drugs to treat neurological disorders. (2) Using genetics and metabolomics to understand how metabolic deficits in glia lead to neuropathy and axon breakdown. (3) Developing new genetic tools for in vivo and in vitro assays aimed at characterizing the role of non-myelinating Schwann cells in acquired peripheral neuropathies such as diabetic neuropathy. (4) Implementing novel, high-throughput genome engineering technologies in induced pluripotent stem cell-derived neurons to perform functional genomic screens for pathways involved in axon regeneration.

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 GI 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: (1) understanding how inflammation leads to aberrant differentiation (metaplasia), which is a precursor for cancer; (2) elucidating how master regulatory transcription factors like Xbp1 and Mist1 coordinate the massive cytoskeletal and organelar expansion of specialized secretory cells as they differentiate from stem cells; and (3) understanding mechanisms regulating how differentiated cells can be reprogrammed into stem cells in GI organs like stomach and pancreas.
Stanley Misler, MD, PhD  
815 Yalem Building, Barnes-Jewish Hospital  
Phone: 314-454-7719  
Stimulus-secretion coupling in endocrine cells (B-islet cells and adrenal chromaffin cells) examined using single-cell assays of secretion (capacitance measurements, amperometry).

Ginger E. Nicol, MD  
4412 Renard Building  
Phone: 314-362-5939  
Clinical research concerning substrate (glucose and lipid) metabolism and the regulation of weight and body composition in persons with mental illness, particularly concerning the effect of psychotropic medications. This elective offers the student a broad exposure to clinical research protocols, including protocols in adults and children. Students will have an opportunity to focus on a particular project of interest.

Amit Noheria, MBBS, SM  
Northwest Tower, 13th Floor  
Phone: 314-249-7352  
Clinical Outcomes in Patients with Cardiac Implantable Electronic Devices: Clinical research to evaluate outcomes in patients with cardiac implantable electronic devices (CIEDs).
1. Risk of stroke in patients with patent foramen ovale and CIEDs.
2. Predictors of hemodynamically unstable ventricular arrhythmias in patients with left ventricular assist devices (LVADs).

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

Katherine Ponder, MD  
8818 Cancer Science Research Building  
Phone: 314-362-5188  
Email: kponder@wustl.edu  
Gene Therapy for Lysosomal Storage Diseases. Our laboratory is interested in using gene therapy to treat 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 results in expression that is sufficient to reduce many of the clinical manifestations of these genetic diseases. Current studies focus upon assessing the therapeutic effect of gene therapy on sites that are affected in MPS such as the heart, aorta, bones and joints, and 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. The 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  
Email: pstein@wustl.edu  
Clinical Significance of Heart Rate Variability and ECG-Derived Waveform Parameters Obtained from Continuous Ambulatory Monitoring. This elective affords 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 involving 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, developing methods to quantify ultradian heart rate variability patterns, to developing novel ECG analysis techniques, etc. 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 >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 the CHS and of another study (EPHESUS) who are known to have died suddenly, and we have developed a matched control group in order to examine ECG-based differences in those who died suddenly. We also have electronic sleep studies at two time points for about 300 of the CHS Holter participants who also participated in the Sleep Heart Health Study. We have analyzed an additional ~1500 sleep studies from CHS participants who did not have Holter recordings. Thus, there is also an opportunity in the CHS dataset for studies on the relationship of heart rate variability and changes in heart rate variability over time and 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 post-cardiac surgery and data from a study of treatment of depression in treatment-resistant depressed post-MI patients, a study of sickle cell patients, and one of heart rate variability and echo parameters in elderly African Americans. Currently we are also analyzing HRV in both premature infants as they mature and also 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 on about 20,000 subjects for whom continuous ECGs from Holter recordings, sleep studies, and ICU studies are available, and also some mouse data, the student will be able to choose a project leading 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.

John Turk, MD, PhD
Southwest Tower, 8th Floor
Phone: 314-362-8190
Phospholipid signaling mechanisms in pancreatic islets.
Experience in mass spectrometric analysis of complex lipids is available.

H.J. Wedner, MD
5002 Steinberg Pavilion, Barnes-Jewish Hospital, North Campus
Phone: 314-454-7937 or 314-454-7377
1. Asthma Care in the Inner City: Students will participate in ongoing studies of the delivery of asthma care to inner-city children and adults. The emphasis will be on direct contact between the asthmatic patients and the student, along with an asthma counselor.

2. Biology of Pollen and Fungal Allergens: Our laboratory has been characterizing the important allergenic proteins from molds and pollen. The allergens are identified using skin test sensitive individuals, and the proteins are isolated and characterized by a combination of physiochemical and molecular biological techniques. These studies should lead to better forms of allergy immunotherapy. Students will participate in the isolation, characterization and modification of major allergens from a number of molds including Stachybotrysatra, Epicoccum nigrum, and several pollens including those from white oak and Parthenium hysterophoros, a newly recognized allergen.

Primary Care Summer Preceptorships
Since 1996 the school has sponsored a primary care preceptorship program for students during the summer between their first and second years of classes. Students select a preceptor in internal medicine, pediatrics or family practice and spend up to eight weeks observing that physician's clinical practice. A stipend is provided to the student. Although many of the preceptors are in St. Louis, others, particularly alumni, are located in cities throughout the country.

Faculty
The Department of Medicine's general medicine teaching services at Barnes-Jewish Hospital and the Veterans Administration Medical Center (St. Louis) are under the following directors:

John P. Atkinson, MD
Samuel Grant Professor of Medicine
Chief, Division of Rheumatology

Melvin S. Blanchard, MD
Professor of Medicine
Chief, Division of Medical Education

Roberto Civitelli, MD
Sydney M. & Stella H. Schoenberg Professor of Medicine
Chief, Division of Bone and Mineral Diseases

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
Associate Chair for Clinical Programs

Nicholas O. Davidson, MD
John E. and Adaline Simon Professor of Medicine
Chief, Division of Gastroenterology
<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Appointment Details</th>
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<tbody>
<tr>
<td>John F. DiPersio, MD, PhD</td>
<td>Virginia E. and Sam J. Golman Professor of Medicine Chief, Division of Oncology</td>
</tr>
<tr>
<td>Bradley A. Evanoff, MD, MPH</td>
<td>Richard A. and Elizabeth Henby Sutter Chair in Occupational, Industrial, and Environmental Medicine Chief, Division of General Medical Sciences</td>
</tr>
<tr>
<td>John F. DiPersio, MD, PhD</td>
<td>Virginia E. and Sam J. Golman Professor of Medicine Chief, Division of Oncology</td>
</tr>
<tr>
<td>Victoria J. Fraser, MD</td>
<td>Adolphus Busch Professor of Medicine and Chairman</td>
</tr>
<tr>
<td>Daniel E. Goldberg, MD, PhD</td>
<td>David M. and Paula L. Kipnis Distinguished Professor Co-Chief, Division of Infectious Diseases</td>
</tr>
<tr>
<td>Daniel M. Goodenberger, MD</td>
<td>Professor of Medicine Chief, Veteran's Administration</td>
</tr>
<tr>
<td>Richard W. Gross, MD, PhD</td>
<td>Professor of Medicine Chief, Division of Bioorganic Chemistry and Pharmacology</td>
</tr>
<tr>
<td>Michael J. Holtzman, MD</td>
<td>Selma and Herman Seldin Professor of Medicine Chief, Division of Pulmonary and Critical Care Medicine</td>
</tr>
<tr>
<td>Benjamin D. Humphreys, MD, PhD</td>
<td>Joseph P. Friedman Associate Professor Chief, Division of Nephrology</td>
</tr>
<tr>
<td>Samuel Klein, MD</td>
<td>William H. Danforth Professor of Medicine and Nutritional Science Chief, Division of Geriatrics and Nutritional Sciences</td>
</tr>
<tr>
<td>Douglas L. Mann, MD</td>
<td>Tobias and Hortense Lewin Professor of Medicine Chief, Division of Cardiology</td>
</tr>
<tr>
<td>William G. Powderly, MD</td>
<td>Dr. J. William Campbell Professor of Medicine Co-Chief, Division of Infectious Diseases</td>
</tr>
<tr>
<td>J. Evan Sadler, MD, PhD</td>
<td>Chief, Division of Hematology</td>
</tr>
<tr>
<td>Clay F. Semenkovich, MD</td>
<td>Irene E. and Michael M. Karl Professor of Endocrinology and Metabolism in Medicine Chief, Division of Endocrinology, Metabolism and Lipid Research</td>
</tr>
<tr>
<td>Mark S. Thoeleke, MD</td>
<td>Associate Professor of Medicine Chief, Division of Hospital Medicine</td>
</tr>
<tr>
<td>H. James Wedner, MD</td>
<td>Dr. Phillip and Arleen Korenblat Professor Chief, Division of Allergy and Immunology</td>
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</table>

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

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<thead>
<tr>
<th>Name</th>
<th>Title and Appointment Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eva Marie Aagaard, MD</td>
<td>Professor of Medicine (primary appointment) Sr Associate Dean for Education BA University of CA Santa Barbara 1991 MD Cornell University 1995</td>
</tr>
<tr>
<td>Elliot Efrem Abbey, MD</td>
<td>Professor of Clinical Medicine (primary appointment) BA Cornell University 1971 MD New York University 1975</td>
</tr>
<tr>
<td>Camille N. Abboud, MD</td>
<td>Professor of Medicine (primary appointment) BS American University of Beirut 1970 MD American University of Beirut 1974</td>
</tr>
<tr>
<td>Basem Abdeen, MD</td>
<td>Instructor in Clinical Medicine (primary appointment) MD University of Jordan 2001</td>
</tr>
<tr>
<td>Dana Ray Abendschein, PHD</td>
<td>Associate Professor of Medicine (primary appointment) Associate Professor of Cell Biology and Physiology PHD Purdue University 1978 BS State University of New York 1974</td>
</tr>
<tr>
<td>Grazia Abou Ezzi, MS, PHD, MS</td>
<td>Instructor in Medicine (primary appointment) MS University of Paris 2009 PHD University of Nice 2013 BS Holy Spirit Univ of Kaslik 2006 MS University of Nice 2008</td>
</tr>
<tr>
<td>Barry K Abramson, MD</td>
<td>Instructor in Clinical Medicine (primary appointment) BA Johns Hopkins University 1981 MD University of Miami 1985</td>
</tr>
<tr>
<td>Nada A Abumrad, PHD</td>
<td>Robert C Atkins Professor of Obesity Research in Medicine (primary appointment) Professor of Cell Biology and Physiology BS American University of Beirut 1972 PHD State University of New York 1978</td>
</tr>
<tr>
<td>Susan R Adams, MD</td>
<td>Instructor in Clinical Medicine (primary appointment) BA Carleton College 1985 MD University of Missouri 1989</td>
</tr>
<tr>
<td>Foluso O Ademuyiwa, M PH, MBBS</td>
<td>Associate Professor of Medicine (primary appointment) M PH Johns Hopkins University 2001</td>
</tr>
</tbody>
</table>
MBBS University of Ibadan 1999

Douglas R Adkins, MD
Professor of Medicine (primary appointment)
BS Wright State University 1982
MD Wright State University 1986

Patrick Roy Aguilar, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
BA UT Permian Basin 2017
MD UT Medical Branch 2017

Danish Ahmad, MD
Instructor in Medicine (primary appointment)
BS University of Maryland 2017
MD University of Maryland 2017

Homaa Ahmad, MD
Assistant Professor of Medicine (primary appointment)
BA Johns Hopkins University 1999
MD Johns Hopkins University 2003

Abdulla Akfaly, MD
Instructor in Clinical Medicine (primary appointment)
MD Aleppo University 1991

Ghadah Abdulaziz Al Ismail, MBBS
Instructor in Medicine (primary appointment)
MBBS King Faisal University Medical 2006

Ziyad Al-Aly, MD
Assistant Professor of Medicine (primary appointment)
MD Beirut University 1999
BS Beirut University 1995

Bassam Albarcha
Instructor in Clinical Medicine (primary appointment)

Jorge M Alegre, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1965

Jennifer Marie Alexander-Brett, MD, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Pathology and Immunology
BS University of Nebraska 1999
MD Washington Univ in St. Louis 2007
PHD Washington Univ in St. Louis 2007

Tarek Alhamad, MS, MD
Assistant Professor of Medicine (primary appointment)
MS Pennsylvania State University 2013
MD Damascus U. Medical School 2006

Alaa Ali, MD
Instructor in Medicine (primary appointment)
MD Damascus University 2010

Muhammad A Ali, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1985

Sami Almaskeen
Assistant Professor of Medicine (primary appointment)

Florence Michelle Almiron-Torralba
Instructor in Clinical Medicine (primary appointment)

David Hershel Alpers, MD
William B Kountz Professor of Gerontology in Medicine (primary appointment)
MD Harvard University 1960
BA Harvard University 1956

Jamaluddin Faisal Amanullah
Instructor in Clinical Medicine (primary appointment)

Amit P. Amin, MD
Assistant Professor of Medicine (primary appointment)
MD Government Medical College 1998

Manik A Amin, MD
Assistant Professor of Medicine (primary appointment)
MD Government Medical College 1997

Milan J. Anadkat, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
MD Ohio University 2001
BS University of Akron 1997

Dhanalakshmi Subramanian Anbukumar, PHD
Instructor in Medicine (primary appointment)
PHD Saint Louis University 2010
BA Saint Louis University 2003

Adam Lee Anderson, MD
Assistant Professor of Medicine (primary appointment)
MD University of Illinois Chicago 2010
BS University of Illinois Chicago 2006

Scott J Anderson, MD, PHD
Instructor in Clinical Medicine (primary appointment)
MD Duke University 1982
PHD Duke University 1981
BA University of California 1975

Muhammad Jaffer Ansari
Assistant Professor of Clinical Medicine (primary appointment)

George Ansstas, MD
Assistant Professor of Medicine (primary appointment)
MD Tishreen Univ College of Med 2001

Alison Lynne Antes Schuelke, PHD, MS
Assistant Professor of Medicine (primary appointment)
BS Indiana State University 2005
PHD University of Oklahoma 2010
MS University of Oklahoma 2007
BS Indiana State University 2005

Olivia Aranha, PHD, MS, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
PHD Wayne State University 2000
MS University of Detroit 1998
MD University of Bombay 1995

Suzanne V Arnold, MD, MHA
Adjunct Assistant Professor of Medicine (primary appointment)
MD Ohio State University 2004
MHA Ohio State University 2004

Vivek Kumar Arora, PHD, MD
Assistant Professor of Medicine (primary appointment)
PHD University of Texas Southwest 2004
BS Northwestern University 1996
MD University of Texas Southwest 2004

Saira M Asadullah, MD
Instructor in Clinical Medicine (primary appointment)
MD Aga Khan University 1992

Phillip V. Asaro, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Saint Louis University 1981

Jeffrey Jay Atkinson, BS1, MD, MD1
Associate Professor of Medicine (primary appointment)
Associate Professor of Pediatrics
BS1 Loyola College 1990
MD Hahnemann University 1994
BS Loyola College 1990
MD1 Hahnemann University 1994

John Patterson Atkinson, MD
Samuel Grant Professor of Medicine (primary appointment)
Professor of Molecular Microbiology
MD University of Kansas 1969
BA University of Kansas 1965

Crystal Lynn Atwood, MD
Instructor in Medicine (primary appointment)
MD University of Illinois Chicago 2009

Chandra Aubin, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
BA University of Missouri 1983
MD University of Missouri 1983

James G Avery, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1986
MD University of Tennessee 1990

Riad Azar, MD
Associate Professor of Medicine (primary appointment)
MD Saint Josephs University 1994

Hilary M Babcock, MD, MPH
Associate Professor of Medicine (primary appointment)
MD University of Texas Southwest 1994
MPH Saint Louis University 2006
BA Brown University 1989

Richard G. Bach, MD, MS
Professor of Medicine (primary appointment)
BS Georgetown University 1977
MD New York University 1984
MS New York University 1980

Maria Quintos Baggstrom, MD
Associate Professor of Medicine (primary appointment)
MD University of Texas Houston 1996
BA Williams College 1991

Om Parkash Bahl, MS
Assistant Professor of Clinical Medicine (primary appointment)
MS Punjab University 1957

Donald M Bailey
Adjunct Instructor in Medicine (primary appointment)

Thomas C Bailey, MD
Professor of Medicine (primary appointment)
BA William Jewell College 1980
MD Washington Univ in St. Louis 1984

Gregory Eden Baker, MD
Instructor in Clinical Medicine (primary appointment)
MD Mayo Clinic 2001

Megan Tierney Baldridge, PHD, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Molecular Microbiology
PHD Baylor College of Medicine 2009
MD Baylor College of Medicine 2011

Fred J Balis, MS, MD
Assistant Professor of Clinical Medicine (primary appointment)
MS Cornell University 1985
BS University of Vermont 1981
MD Washington Univ in St. Louis 1989

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

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

James William Banks, MD
Instructor in Clinical Medicine (primary appointment)
MD Marshall University 1984
Dhruv Bansal, MD
Instructor in Medicine (primary appointment)
MD University of New Mexico 2011

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

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

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

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

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

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

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

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

Luis Francisco Zirnberger Batista, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Developmental Biology
BS University of SAO Paulo 2003
PHD University of SAO Paulo 2008

Brian John Bausano, MD
Associate Professor of Emergency Medicine in Medicine
(Pending Executive Faculty Approval) (primary appointment)
MD Baylor University 2004

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

Michael D Bavlsik, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS Seton Hall University 1987
MD Rutgers University 1991

Susan Joy Bayliss, MD
Professor of Medicine (Dermatology) (primary appointment)
Professor of Pediatrics
MD University of Texas Galveston 1974
BA University of Texas Austin 1970

Saba Beg, MD
Instructor in Medicine (primary appointment)
MD Government Medical College 2004

C. Elliott Bell Jr, MD
Instructor in Clinical Medicine (primary appointment)
BS Tulane University 1960
MD Tulane University 1964

Richard C Bell, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
MD Washington Univ in St. Louis 1988
BA Northwestern University 1984

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

Bruno Antonio Benitez Vitoria, MD
Instructor in Medicine (primary appointment)
MD Universidad Nacional de Columb 2003

Michael Charles Bennett, MD
Instructor in Medicine (primary appointment)
MD Vanderbilt University 2010

Susan Berdy, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Saint Louis University 1984
BA Brown University 1980

Daniel Ralph Berg, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS Brown University 1994
MD Washington Univ in St. Louis 2000

Michael A Berk, MD
Professor of Clinical Medicine (primary appointment)
MD Indiana University Bloomington 1979
BA Northwestern University 1974

Carlos Bernal-Mizrachi, MD
Philip E & Carolyn E Cryer Professor of Medicine (primary appointment)
Associate Professor of Cell Biology and Physiology
MD Universidad del Valle Med Sch 1990
Aaron M Bernstein, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1948
MD University of Chicago 1952
Keith A Bernstein, MD
Instructor in Clinical Medicine (primary appointment)
BA University of MO Kansas City 1987
MD University of Missouri 1987
Marc Jordan Bernstein, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Haverford College 1988
MD Washington Univ in St. Louis 1992
Douglas R Berson, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Pennsylvania 1983
BA Lehigh University 1981
Amit Indra Bery, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2014
Pavan Kumar Bhamidipati, MD
Instructor in Clinical Medicine (primary appointment)
MD Guntur Medical College 2007
Anita R. Bhandiwad, MD
Associate Professor of Medicine (primary appointment)
MD Northwestern University 1998
BA Northwestern University 1994
Mythili C. Bharadwaj, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN University of Madras 1988
Rakhee Kapadia Bhayani, MD
Associate Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1999
Stanley I Biel, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Illinois 1978
BA Rockford College 1974
Michael Biersmith, MD
Instructor in Medicine (primary appointment)
BS University of Notre Dame 2010
MD Eastern Virginia Med School 2014
Joseph John Billadello, MD
Associate Professor of Medicine (primary appointment)
MD Georgetown University 1978
BS State University of New York 1973
Ellen F Binder, MD
Professor of Medicine (primary appointment)
Professor of Occupational Therapy
MD Washington Univ in St. Louis 1981
BA Davenport University 1977
Aaron Birenbaum, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1948
William D Birenbaum, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1983
BA Washington Univ in St. Louis 1978
Clifford Allen Birge, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Amherst College 1956
MD Washington Univ in St. Louis 1961
Stanley J Birge, MD
Associate Professor of Medicine (primary appointment)
BA Amherst College 1959
MD Washington Univ in St. Louis 1963
Thomas M Birkenmeier, MD
Assistant Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1982
BA Washington Univ in St. Louis 1978
Kumar Sanjeev Bishnupuri, PHD, MS
Instructor in Medicine (primary appointment)
BS Tilka Manjhi Bhagalpur Univ 1988
PHD Banaras Hindu University 1999
MS Banaras Hindu University 1992
Valerie Blanc, MS, PHD
Instructor in Medicine (primary appointment)
MS University of Bordeaux 2 1992
PHD University of Bordeaux 2 1996
Melvin S Blanchard, BBA, MD
Professor of Medicine (primary appointment)
Director of Residency Program, Department of Internal Medicine
BBA Trevecca Nazarene College 1987
MD University of Tennessee 1994
Merilda O Blanco-Guzman, MD
Instructor in Medicine (primary appointment)
MD PUCMM FACULTAT DE CIENCIAS DEL 2004
Elizabeth Joy Blaney, MD
Assistant Professor of Medicine (primary appointment)
BA Eastern Michigan University 2003
MD Ohio State University 2007
Morey A Blinder, MD
Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
MD Saint Louis University 1981
BS University of Notre Dame 1977
Donald Allen Blum  
Assistant Professor of Clinical Medicine (primary appointment)

Imre Bodo  
Adjunct Instructor in Medicine (primary appointment)

Michael Bolger  
Instructor in Clinical Medicine (primary appointment)

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

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

Jamie Marie Borgmann  
Instructor in Clinical Medicine (primary appointment)

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

Steven H. Borson, MD  
Instructor in Medicine (primary appointment)  
MD Temple University 2014  
BS Washington Univ in St. Louis 2010

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

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

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

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

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

Sabina A Braithwaite, MD, MPH  
Associate Professor of Emergency Medicine In Medicine  
(Pending Executive Faculty Approval) (primary appointment)

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

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

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

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

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

Daniel C Brennan, MD  
Professor of Medicine (primary appointment)  
Alan A and Edith L Wolff Distinguished Professor  
MD University of Iowa 1985  
BS Cornell College 1981

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

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

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

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  
Instructor in Medicine (primary appointment)  
Instructor in Pediatrics  
PHD Washington Univ in St. Louis 2009
Christopher B. Brooks, MD  
Associate Professor of Emergency Medicine in Medicine  
MD Georgetown University 1982

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

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

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

George John Broze Jr, MD  
Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
Professor of Pathology and Immunology  
BS University of Washington 1968  
MD University of Washington 1972

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

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

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

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

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

John T. Milliken Department of Medicine (01/16/18)
Adjunct Instructor in Medicine (primary appointment)

Abigail L Carlson, MD
Instructor in Medicine (primary appointment)
MD Johns Hopkins University 2010
BA Wellesley College 2005

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

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

David B Carr, MD
Professor of Medicine (primary appointment)
Alan A and Edith L Wolff Distinguished Professor of Geriatric Medicine
Professor of Neurology
BA University of Texas Austin 1992

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

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

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

Roque Castillo
Assistant Professor of Medicine (primary appointment)

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

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

Murali M Chakinala, MD

Professor of Medicine (primary appointment)
MD Vanderbilt University 1994
BS Duke University 1990

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

Kari Terece Chambers, PHD
Instructor in Medicine (primary appointment)
BS Truman State University 2000
PHD Saint Louis University 2007

Philip Chan, MD
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)
BA Northwestern University 2009
MD Northwestern University 2013

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

Monica Chang-Panesso, MD
Instructor in Medicine (primary appointment)
MD Texas Tech University 2009

Douglas Char, MA, MD
Professor of Emergency Medicine in Medicine (primary appointment)
MA Boston University 1985
BS Boston College 1983
MD University of Hawaii 1989

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

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

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

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

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

David Yuan-Sou Chen, PHD, MD
Instructor in Medicine (primary appointment)
PHD Washington Univ in St. Louis 2012
BS University of Michigan 2003
MD Washington Univ in St. Louis 2012
Edward C. Chen, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2005

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

Jacqueline W. Chen, AB, MD
Instructor in Medicine (primary appointment)
AB Washington Univ in St. Louis 2010
MD Washington Univ in St. Louis 2014
Phyllis Chen, MD
Instructor in Clinical Medicine (primary appointment)
MD Northwestern University Med 1992

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

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

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

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

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

Cynthia Cherfane, MD
Instructor in Medicine (primary appointment)
MD St. Joseph University, Beirut 2011

Mathew Amprayil Cherian, MBBS
Instructor in Medicine (primary appointment)
MBBS Christian Medical College 2000

Milan G Chheda, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Neurology
MD Albert Einstein College of Med 2002
Rebecca Joy Chibnall, MD, AA
Assistant Professor of Medicine (Dermatology) (primary appointment)
MD University of California 2012
BS Washington Univ in St. Louis 2007
AA Washington Univ in St. Louis 2007

Phillip Ruben Chisholm
Instructor in Clinical Medicine (primary appointment)

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

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

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

George P Christophi, PHD, MD
Instructor in Medicine (primary appointment)
PHD Upstate Medical University 2011
MD Upstate Medical University 2011

Philip Chu, MD
Instructor in Medicine (primary appointment)
BS Rice University 2010
MD Univ of Texas Med Sch Houston 2016

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

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

Jeffrey Peter Ciaramita
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

James Close, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1984
BA Washington Univ in St. Louis 1980

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

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

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

Susan R Colbert-Threats, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS Northwestern University 1986
MD University of Illinois 1991

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

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

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

Sarah F Cole
Instructor in Clinical Medicine (primary appointment)

Lloyd W Coleman, MS, PHD
Instructor in Medicine (primary appointment)
BS Northeast Missouri St Univrsty 1973
MS Iowa State University 1976
PHD Iowa State University 1984

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

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

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

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

Matthew Cooper, PHD
Instructor in 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

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
MD Washington Univ in St. Louis 2010
BA Yale University 2005

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

Daniel W Coyne, MD
Professor of Medicine (primary appointment)
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>School or Institution</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clarissa S. Craft, PHD</td>
<td>Assistant Professor of Medicine</td>
<td>Saint Louis University</td>
<td>1979</td>
</tr>
<tr>
<td>Johnetta M Craig, MD, MBA</td>
<td>Instructor in Clinical Medicine</td>
<td>University of Iowa</td>
<td>1984</td>
</tr>
<tr>
<td>John Jeffrey Cras, MD, MS</td>
<td>Assistant Professor of Medicine</td>
<td>Saint Louis University</td>
<td>1984</td>
</tr>
<tr>
<td>Charles Crecelius, MD, PHD</td>
<td>Assistant Professor of Medicine</td>
<td>University of Missouri</td>
<td>1980</td>
</tr>
<tr>
<td>Sharon Cresci, MD</td>
<td>Associate Professor of Medicine</td>
<td>New York University</td>
<td>1986</td>
</tr>
<tr>
<td>Stephen R Crespin, MD</td>
<td>Associate Professor of Medicine</td>
<td>Howard University</td>
<td>1960</td>
</tr>
<tr>
<td>Jeffrey S Crippin, MD</td>
<td>Professor of Medicine</td>
<td>University of Kansas</td>
<td>1984</td>
</tr>
<tr>
<td>Paulina Cruz Bravo, MD</td>
<td>Instructor in Medicine</td>
<td>Universidad Autonoma de Madrid</td>
<td>2009</td>
</tr>
<tr>
<td>Philip E Cryer, MD</td>
<td>Professor Emeritus of Medicine</td>
<td>Northwestern University</td>
<td>1965</td>
</tr>
<tr>
<td>Phillip S. Cuculich, MD</td>
<td>Associate Professor of Medicine</td>
<td>Vanderbilt University</td>
<td>2001</td>
</tr>
<tr>
<td>Robert Culverhouse, PHD, MA</td>
<td>Assistant Professor of Medicine</td>
<td>Vanderbilt University</td>
<td>1983</td>
</tr>
<tr>
<td>Philip Washington</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anna Marie Dale, PHD</td>
<td>Associate Professor of Medicine</td>
<td>University of California Berkeley</td>
<td>1987</td>
</tr>
<tr>
<td>Rand E Dankner, MD</td>
<td>Associate Professor of Medicine</td>
<td>Baylor University</td>
<td>1978</td>
</tr>
<tr>
<td>Maria Cristina Dans, MD</td>
<td>Assistant Professor of Medicine</td>
<td>University of Pennsylvania</td>
<td>1974</td>
</tr>
<tr>
<td>Bhajan Shewaldas Dara, MD</td>
<td>Instructor in Medicine</td>
<td>Sindh Medical College</td>
<td>1987</td>
</tr>
<tr>
<td>Lakshman Darsi, MBBS</td>
<td>Assistant Professor of Medicine</td>
<td>Guntur Medical College</td>
<td>1985</td>
</tr>
<tr>
<td>Koushik Kumar Das, MD</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Assistant Professor of Medicine (primary appointment)
MD Columbia University 2016

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

Carlos Colton Daughaday, MD
Professor of Medicine (primary appointment)
BA Harvard University 1967
MD Washington Univ in St. Louis 1971

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

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

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

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

Thomas Edward Davis
Instructor in Clinical Medicine (primary appointment)

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

Thomas M De Fer, MD
Professor of Medicine (primary appointment)
MD University of Missouri 1989
BA University of Missouri 1985

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

Vincent R De Mello, MS, MD
Assistant Professor of Clinical Medicine (primary appointment)
MS University of Bombay 1965
MD University of Bombay 1969

Anne V Dean, MD

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

Parakkal Deepak, MBBS
Assistant Professor of Medicine (primary appointment)
MBBS Jawaharial Institute of PostGr 2004

Angeline Diane DeiSanti, MD
Assistant Professor of Medicine (primary appointment)
MD University of MO Columbia 2003
BS University of MO Columbia 1998

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

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

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

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

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

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

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

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

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

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

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

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

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

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

James A Diestelhorst, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1967
BS Southern Illinois University 1964

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

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

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

Abhinav Diwan, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Cell Biology and Physiology
MD All-India Inst of Medical Sci 1997

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

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

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

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

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

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

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

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

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

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

Maria C Dumadag-Sabio, MD
Instructor in Clinical Medicine (primary appointment)
Edward Harry DuMontier
Instructor in Clinical Medicine (primary appointment)

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

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

Kirsten F Dunn, MD
Instructor in Medicine (primary appointment)
BS Harvard University 2007
MD Saint Louis University 2012

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

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

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

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

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

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

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

Stilianos Efstatiadis
Assistant Professor of Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Justin Douglas Floyd, DOST
Assistant Professor of Clinical Medicine (primary appointment)
BS University of Arizona 1996
DOST Kirksville College of Osteopat 2000

Raymond Bamvi Fohtung, MD
Instructor in Medicine (primary appointment)
BS Univ of Wisconsin Whitewater 2010
MD Washington Univ in St. Louis 2014

Emily Fondahn, MD
Assistant Professor of Medicine (primary appointment)
MD Northwestern University 2000

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

Randi Elizabeth Foraker, MA, PHD
Associate Professor of Medicine (primary appointment)
BA University of Iowa 1997
MA University of Iowa 1999
PHD University North Carolina 2010
Glennon Joseph Fox, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of MO Columbia 1984

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

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

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

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

Jeffrey Friesen, MD  
Instructor in Medicine (primary appointment)  
MD University of MO Columbia 2002

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

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

Brian M Fuller, MD  
Associate Professor of Emergency Medicine in Medicine (primary appointment)  
MD University of Alabama 2003  
BA University of Alabama 1998

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

Suzanne Furesz  
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

Jane M. Garbutt, MHS, MBCHB  
Professor of Medicine (primary appointment)  
Professor of Pediatrics  
MHS University of Toronto 1988  
MBCHB Bristol University 1977

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

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

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

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

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

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

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

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

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

**Mate’ Gergely, MD**
Instructor in Medicine (primary appointment)
BS University of Texas Austin 2010
MD Texas A&M University 2014

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

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

**Stephen James Giddings, PHD, MD**
Associate Professor of Medicine (primary appointment)
PHD Dartmouth College 1973
MD University of Rochester 1976
BA Dartmouth College 1968

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

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

**Gardar T Gislason**
Adjunct Instructor in Medicine (primary appointment)

**Josephine Lee Aguobob Glaser**
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

**Seth Goldberg, MD**
Assistant Professor of Medicine (primary appointment)
MD University of South Florida 2003
BS University of South Florida 1999

**Scott Ryan Goldsmith, MD**
Instructor in Medicine (primary appointment)
MD University of Florida 2013

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

**Yong-feng Gong, MS, PHD**
Instructor in Medicine (primary appointment)
MS China Medical University 2005
PHD Zhejiang Medical University 2009

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

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

**John Gorcsan III, MD**
Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
BA Lehigh University 1979
MD Pennsylvania State University 1983

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

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

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

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

**Jonathan M Green, MD**
Professor of Medicine (primary appointment)
Associate Dean for Human Studies
Professor of Pathology and Immunology
BS University of Michigan 1982
MD Wayne State University 1986

**Aaron Greenspan**
Instructor in Clinical Medicine (primary appointment)

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

**Walter Blake Gribben, MD**
Instructor in Medicine (primary appointment)
MD University of Alabama 2010

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

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

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

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

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

**Richard Warren Gross, MD, AB, PHD**
Professor of Medicine (primary appointment)

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

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

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

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

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

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

**Reena Gurung, MD**
Instructor in Medicine (primary appointment)
MD Kathmandu University 2007

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

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

**H**

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

**Matthew D Hageman, MD**
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1996
Jennifer Christine Hagopian
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

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

Yasir A Hamad, MD
Instructor in Medicine (primary appointment)
MD University of Juba 2004

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

Zahirul Haque
Instructor in Clinical Medicine (primary appointment)

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

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

Lydia-Ann Lynell Harris, PHD
Instructor in Medicine (primary appointment)
PHD State University of New York 2011

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

PHD New York U. School of Medicine 2001

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

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

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

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

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

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

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

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

Kristina Louise Henderson, MD
Instructor in Clinical Medicine (primary appointment)
BA Saint Louis University 1982
MD Saint Louis University 1991

Daniel Robert Herleth
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

Jennifer Kristen Hester, MD
Instructor in Clinical Medicine (primary appointment)
MD University of MO Kansas City 1997

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

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

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

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

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

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

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

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

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

BA University of Kansas 1972

Melissa Louise Hollie
Instructor in Clinical Medicine (primary appointment)

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

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

Neal Holzum
Instructor in Clinical Medicine (primary appointment)

Hitoshi Honda
Adjunct Assistant Professor of Medicine (primary appointment)

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

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

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

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

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

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

Stacey L House, PHD, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BS Yale University 1999
Jacqueline Howard, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN School Not Listed 1995

David Thomas Howell
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

Yafei Huang, PhD, MS
Instructor in Medicine (primary appointment)
PHD Univ of Texas Med Sch Houston 2007
MS Beijing Medical University 2000

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

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

Laura Huff, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
MD U of Colorado Health Sci Ctr 2011
BS Colorado St University 2006

Jing Hughes, MD
Instructor in Medicine (primary appointment)
BS Stanford University 2002
MD University of Pennsylvania 2009

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

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

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

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

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

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

Warren Isakow, MD
Associate Professor of Medicine (primary appointment)
MD University of the Witwatersra 1998

Eva Susanne Istvan, PHD
Assistant Professor of Medicine (primary appointment)
HHMI Specialist II
BS University of Houston 1993
PHD University of Houston 2000
Carolyn M Jachna, MD
Assistant Professor of Medicine (primary appointment)
BS Washington Univ in St. Louis 1993
MD Northwestern University Med 1998

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

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

Steven Jacobson, MD
Assistant Professor of Medicine (primary appointment)
BS Rhodes College 1981
MD Saint Louis University 1985

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

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

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

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

George Jarad, MD
Assistant Professor of Medicine (primary appointment)
MD Damascus U. Medical School 1993

Sina Jasim, MBCHB, M PH
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MBCHB University of Baghdad 2001
M PH Saint Louis University 2008

Daniel Ragan Jasper, MD
Instructor in Clinical Medicine (primary appointment)
BA University of Texas Austin 1990
MD Saint Louis University 1994

Anuja Java, MD
Instructor in Medicine (primary appointment)
MD Government Medical College 2002

Ali Javaheri, MD, PHD
Instructor in Medicine (primary appointment)
MD University of Chicago 2008
BA University of Chicago 2000
PHD University of Chicago 2006
BS University of Chicago 2000

Donna Beth Jeffe, PHD, MA
Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 1972
PHD Washington Univ in St. Louis 1993
MA Washington Univ in St. Louis 1990

Christopher M. Jenkins, PHD
Assistant Professor of Medicine (primary appointment)
BS Michigan State University 1991
PHD Vanderbilt University 1997

Xuntian Jiang, PHD
Assistant Professor of Medicine (primary appointment)
PHD China Pharmaceutical Univ 1992

Morris Joftus, MD
Instructor in Medicine (primary appointment)
MD University of Illinois 1967

Eric Keith Johnson, MD
Instructor in Medicine (primary appointment)
MD Univ of Wisconsin Madison 1999

Reuben D Johnson, BE, MD, BS1
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BE Georgia Tech 1996
MD Howard University College of M 2002
BS1 Morehouse College 1996

William F Johnson
Adjunct Instructor in Medicine (primary appointment)

Christopher Jones, MD
Instructor in Medicine (primary appointment)
MD University of Kansas Medical 2014

Heather Jones, MD
Assistant Professor of Medicine (Dermatology) (Pending Executive Faculty Approval) (primary appointment)
BS Michigan State University 2007
MD University of Texas Galveston 2011

Amy M Joseph, MD
Professor of Medicine (primary appointment)
MD Vanderbilt University 1986
BA Johnston Community College 1977

Barbara Jost, MS, MD
Instructor in Clinical Medicine (primary appointment)
David A Katzman, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Brown University 1986  
MD Saint Louis University 1991

Andrew L. Kau, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
PHD Washington St University 2006  
BS 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)  
BA Washington Univ in St. Louis 1959  
MD Washington Univ in St. Louis 1963

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

Darius 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

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

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

John J Kelly, MD  
Associate Professor of Medicine (primary appointment)  
MD Saint Louis University 1963  
BS Rockhurst College 1959

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

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

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

Ahmed Sultan Khan
Adjunct Instructor in Medicine (primary appointment)

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

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

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)
BA University of Kansas 1987
MD Washington Univ in St. Louis 1991

Albert J Kim, MD
Instructor in 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)
Assistant Professor of Pathology and Immunology
BA University of Pennsylvania 1996
MD Drexel University 2005
PHD Drexel University 2005

Brian Kim, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
Assistant Professor of Anesthesiology
Assistant Professor of Pathology and Immunology

MD University of Washington 2007
BS Haverford College 2001

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

Helen Young Kim-James, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
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)
BA Fairfield University 1966
MD Johns Hopkns University Medc 1970

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

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

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

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

Robyn Sue Klein, MD, MS, PHD
Professor of Medicine (primary appointment)
Professor of Neuroscience
Professor of Pathology and Immunology  
BA Barnard College 1985  
MD Albert Einstein College of Med 1993  
MS Albert Einstein College of Med 1990  
PHD 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 Massachusetts Institute of Technology (MIT) 1984  

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

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

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

Kathryn Knoop, PHD  
Instructor in Medicine (primary appointment)  
BS Drake University 2006  
PHD Emory University 2011  

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

Nita Kohli, MD, M PH  
Assistant Professor of Medicine (Dermatology) (Pending Executive Faculty Approval) (primary appointment)  
BS University of New Orleans 2000  
BA University of New Orleans 2000  
MD Louisiana State University 2004  
M PH Louisiana State University 2004  

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)  
BS US Military Academy 1979  
MD University of Rochester 1983  

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

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

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

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 University in St. Louis 1996  

Phillip E Korenblat, MD  
Professor of Clinical Medicine (primary appointment)  
MD University of Arkansas 1980  
BA University of Arkansas 1957  

Stuart A Kornfeld, MD  
David C and Betty Farrell Professor of Medicine (primary appointment)  
Professor of Biochemistry and Molecular Biophysics  
BA Dartmouth College 1958  
MD Washington University in St. Louis 1962  

Alex H Kosloff, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1980  
BS Washington University in St. Louis 1975  

Attila Kovacs, MD  
Associate Professor of Medicine (primary appointment)  
MD Semmelweis University of Med 1985  
BS School Not Listed 1981  

Sandor J Kovacs, MS, MD, PHD  
Professor of Medicine (primary appointment)  
Adjunct Professor of Physics  
Professor of Biomedical Engineering  
Professor of Cell Biology and Physiology  
MS California Institute of Technology 1972  
MD University of Miami 1979  
BS Cornell University 1969  
PHD California Institute of Technology 1977  

Mark S Krasnoff, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Johns Hopkins University Medicine 1991  
BA Amherst College 1987  

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

Elaine Susan Krul, PHD
Adjunct Associate Professor of Medicine (primary appointment)
PHD McGill University 1982
BS McGill University 1977

Kilannin Cathleen Krysiak, PHD
Instructor in Medicine (primary appointment)
BS University of Illinois 2006
PHD Washington Univ in St. Louis 2014

Thomas Kuciejczyk-Kernan, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Illinois 1982
MD Saint Louis University 1986

Ralph F Kuhlman, MD
Instructor in Medicine (primary appointment)
BS University of Illinois 1964

Frederick Matthew Kuhlmann, MD
Assistant Professor of Medicine (primary appointment)
BS Emory University 1998
MD Emory University 2002

Anthony Kulczycki Jr, MD
Assistant Professor of Medicine (primary appointment)
MD Harvard University 1970
BA Princeton University 1966

Robin A. Kundra, BS1, PHD, MD
Assistant Professor of Medicine (primary appointment)
BS Emory University 1992
MD University of Utah 1996

David I. Kuperman, MD
Assistant Professor of Medicine (primary appointment)
MD University of Arkansas 2001
BA Hendrix College 1997

Howard I. Kurz, MD, BS1, MEE
Assistant Professor of Medicine (primary appointment)
BS Massachusetts Institute of Technology (MIT) 1979
MD New York Medical College 1984
BS Massachusetts Institute of Technology (MIT) 1979
MEE Princeton University 1980

Vladimir Kushnir, MD
Assistant Professor of Medicine (primary appointment)
BS University of Utah 2002
MD Ohio State University 2006

Jennie H Kwon, DOST
Assistant Professor of Medicine (primary appointment)
DOST Chicago Coll of OsteopathicMed 2009
BS Univ of IL-Urban-Champaign 2005
BA Univ of IL-Urban-Champaign 2005

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

Albert Max Lai, M PHIL, MS, MA, PHD
Associate Professor of Medicine (primary appointment)
M PHIL Columbia University 2005
MS Columbia University 2001
BS Columbia University 2000
MA Columbia University 2004
PHD Columbia University 2007

Roop Lal, MS
Assistant Professor of Medicine (primary appointment)
MD University of Illinois Chicago 2009

Irena Lanc, MS1, PHD
Assistant Professor of Medicine (primary appointment)
MD University of Illinois Chicago 2009

Michael A. Lane, MD, MS
Assistant 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)
MD University of Illinois Chicago 2009

Gregory Mark Lanza, MS, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD University of Illinois Chicago 2009

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

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

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

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

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

Caroline Martz Lee, MD, PHD
Instructor in Medicine (primary appointment)
MD University of North Carolina 2011
PHD University of North Carolina 2009
BS Knox College 2003

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)
MD Saint Louis University 1983
BS Washington Univ in St. Louis 1979

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 (Pending Executive Faculty Approval) (primary appointment)
BA1 University of Tennessee 1984
MD University of Tenn Memphis 1988
BA University of Tennessee 1984

Deborah J. Lenschow, MD, PHD, MD1, PHD1
Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
BA Wittenberg University 1990
MD University of Chicago 1998
PHD University of Chicago 1995
MD1 University of Chicago 1998
PHD1 University of Chicago 1995

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)
MD New York University 1996
BA Washington Univ in St. Louis 1991

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
MD Washington Univ in St. Louis 1978
BA Drake University 1974

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

Shunqiang Li, PHD
Assistant Professor of Medicine (primary appointment)
PHD Chinese Academy of Med Science 1999

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

Min Lian, M PH, PHD, MD
Assistant Professor of Medicine (primary appointment)
M PH Fudan University 1999
PHD Texas Tech University 2006
MD Southeast U Medical School 1995

Stephen Yuan-Tung Liang, BA1, MD
Assistant Professor of Medicine (primary appointment)
BA1 Cornell University 1998
BA 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, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
PHD Duke University 2006  
MD National Taiwan University 1999

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)  
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  
MD Vanderbilt University 2003  
BS Duke University 1997

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

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

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

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

Howard S Lite, MA, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1977  
MA University of Missouri 1979  
MD University of Missouri 1983

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

Adam Daniel Littich, MD  
Instructor in 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, MS, MD  
Instructor in Clinical Medicine (primary appointment)  
MS Shanghai Medical University 1987  
MD Shanghai Medical University 1984

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

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

Amy Loden, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of MO Columbia 2010

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

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

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

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, MBA, MD  
Instructor in Clinical Medicine (primary appointment)  
MBA Washington Univ in St. Louis 1997  
MD University of Arkansas 1985  
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, MA, MD
Professor of Medicine (primary appointment)
Mabel Dorn-Reeder Distinguished Professor of the History of Medicine
BA Harvard University 1968
MA Johns Hopkins University 1971
MD Johns Hopkins University 1973

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

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

Barbara A Lutey, 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)
MD Georgetown University 1989
BA Saint Louis University 1983

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

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

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

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

MS Fudan University 1996

Jessica E Ma, MD
Instructor in Medicine (primary appointment)
MD Texas A&M University 2014

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

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

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

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

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

William Edwin Magee, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Duke University 1950

Leonard B Maggi Jr, BA1, PHD
Assistant Professor of Medicine (primary appointment)
BA Cornell College 1995
BA1 Cornell College 1995
PHD Saint Louis University 2001

Jambunathan Mahadevan
Instructor in Clinical Medicine (primary appointment)

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

Nicole Maher, PHD
Instructor in Medicine (primary appointment)
PHD Case Western Reserve Univ 2007
BA Ithaca College 1998

Mohamed Mahjoub, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
PHD Simon Fraser University 2007
Robert John Mahoney, MD  
Associate Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 1997  
BA Princeton University 1993

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

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

Mary Kathryn Malecek, MD  
Instructor in Medicine (primary appointment)  
MD University of Illinois Chicago 2014  
BS University of Notre Dame 2010

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

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

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

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

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

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

George Mansour, MD  
Instructor in Medicine (primary appointment)  
MD Tishreen Univ College of Med 2010

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

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

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

Scot J. Matkovich, PHD  
Assistant Professor of Medicine (primary appointment)  
BS University of Melbourne 1996  
PHD University of Melbourne 2000  
BA University of Melbourne 1995

Anthony J-P Mattaline, DOST  
Assistant Professor of Clinical Medicine (primary appointment)
BS Northeast Missouri St Univrsty 1981
BA St Edwards University 1979
DOST School Not Listed 1985

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

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

Kara H Mayes
Instructor in Clinical Medicine (primary appointment)

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

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

Catherine Jordan McCarthy, MD, PHD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2014
PHD Washington Univ in St. Louis 2014
BA Agnes Scott College 2005

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

Kyle Stephon McCommis, PHD
Instructor in Medicine (primary appointment)
BS University of Kansas 2006
PHD University of MO Columbia 2013

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

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

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

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

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

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

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

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

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

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

Gerald Medoff, MD
Professor Emeritus of Medicine (primary appointment)
BA School Not Listed 1958
MD Washington Univ in St. Louis 1962

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

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

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

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

Paul A Mennes, MD
Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1970
BS Univ of Wisconsin Madison 1966

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

Claire Elizabeth Meyer, MD
Assistant Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 2009
BS Roanoke College 2004

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

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

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

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

Brent William Miller, MD
Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1990
BS Stanford University 1986

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

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

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

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

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

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

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

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

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

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

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

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

C. Scott Molden, MD
Instructor in Medicine (primary appointment)
Instructor in Orthopaedic Surgery
MD Isfahan U of Medical Sciences 2004

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

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

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

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

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

Timothy D Moore
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

Philip Mudd, PHD, MD
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval)
PHD Univ of Wisconsin Madison 2011
MD University of Wisconsin-Madiso 2013

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

Faquir Muhammud
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

Umadevi Muthyala
Instructor in Clinical Medicine (primary appointment)

Elna 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

N

Jyotirmaya Nanda
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

Kathleen Nemer, MD
Instructor in Medicine (Dermatology) (primary appointment)
MD Vanderbilt University 2013

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

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

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

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

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

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

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

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

Lemuel Benedict R Non, MD
Instructor in Medicine (primary appointment)
MD University of the Philippines 2008
BS Mindanao State University 2003

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

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

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

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

Muhammad Akram Nyazee, UNKNOWN1, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN1 Nishtar Medical College Multa 1974
UNKNOWN Govt College Sarhodha 1968
Frank Joseph O'Brien, MBBCH
Assistant Professor of Medicine (primary appointment)
MBBCH University College Cork 2006

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

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

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

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

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

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

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

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

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)
BA Washington Univ in St. Louis 1960
MD Saint Louis University 1965

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

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

Daniel Scott Ory, MD
Professor of Medicine (primary appointment)
Alan A and Edith L Wolff Professor of Cardiology
Professor of Cell Biology and Physiology
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
Assistant 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

William A Peck, MD  
Professor of Medicine (primary appointment)  
Affiliated Professor of Engineering  
Alan A and Edith L Wolff Distinguished Professor  
Director, Center for Health Policy  
MD University of Rochester 1960  
BA Harvard University 1955

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

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)
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Institution</th>
<th>Field</th>
</tr>
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<tbody>
<tr>
<td>BS University of Puerto Rico 1970</td>
<td>MD University of Puerto Rico 1973</td>
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<tr>
<td><strong>Laurence F Perlstein, MD</strong></td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD University of Louisville 1974</td>
<td>BS Tulane University 1967</td>
</tr>
<tr>
<td>Linda R Peterson, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>Professor of Radiology</td>
<td>BS Georgetown University 1986</td>
</tr>
<tr>
<td><strong>Lindsay L Peterson, MD</strong></td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Tulane University 2006</td>
<td>BS Tulane University 2000</td>
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<tr>
<td><strong>Timothy Richard Peterson, PHD</strong></td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>BS University of Michigan 1999</td>
<td>PHD Mass Inst of Technology (MIT) 2010</td>
</tr>
<tr>
<td>Allegra Petti, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>BS Lawrence University 2003</td>
<td>PHD Emory University 2010</td>
</tr>
<tr>
<td><strong>Christine T Pham, MD</strong></td>
<td>Professor of Medicine (primary appointment)</td>
<td>Professor of Pathology and Immunology</td>
<td>BS University of Florida 1985</td>
</tr>
<tr>
<td>David Tuan Pham, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>BS University of Oklahoma 2010</td>
<td>MD University of Oklahoma 2014</td>
</tr>
<tr>
<td><strong>Jennifer A Phillips, MD, PHD, PHD</strong></td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>Assistant Professor of Molecular Microbiology</td>
<td>MD University of CA San Francisco 2000</td>
</tr>
<tr>
<td>William J Phillips, MD</td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1963</td>
<td>BA Ohio State University 1959</td>
</tr>
<tr>
<td>Joel Picus, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BS University of Illinois 1979</td>
<td>BA University of Illinois 1979</td>
</tr>
<tr>
<td>Stephen J Pieper, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1988</td>
<td>BA Washington Univ in St. Louis 1983</td>
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<tr>
<td><strong>Bryan Douglas Piotrowski, MD</strong></td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Saint Louis University 2004</td>
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<tr>
<td><strong>Beatrice Plougastel Douglas, PHD</strong></td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD American U of Carribean SchMed 1999</td>
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<tr>
<td><strong>Doug Pogue, MD</strong></td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
<td>MD Cornell University 1979</td>
<td></td>
</tr>
<tr>
<td><strong>Gregory Polites, MD</strong></td>
<td>Associate Professor of Emergency Medicine in Medicine (primary appointment)</td>
<td>MD University of Illinois Chicago 1996</td>
<td></td>
</tr>
<tr>
<td><strong>Kenneth S Polonsky, MBBCH</strong></td>
<td>Adjunct Professor of Medicine (primary appointment)</td>
<td>MBBCH University of the Witwatersra 1973</td>
<td></td>
</tr>
<tr>
<td><strong>Katherine P Ponder, MD</strong></td>
<td>Professor of Medicine (primary appointment)</td>
<td>Professor of Biochemistry and Molecular Biophysics</td>
<td>BS Stanford University 1979</td>
</tr>
<tr>
<td><strong>Makhawadee Pongruangporn, MD</strong></td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Chiang Mai University 2001</td>
<td></td>
</tr>
<tr>
<td><strong>Harish Ponnuru, MD</strong></td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD University of Missouri 1995</td>
<td>BA University of MO Kansas City 1995</td>
</tr>
<tr>
<td><strong>Lee S Portnoff, MA, MD</strong></td>
<td>Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)</td>
<td>MA University of California 1974</td>
<td>MD Washington Univ in St. Louis 1978</td>
</tr>
<tr>
<td><strong>Daniel E Potts, MD</strong></td>
<td>Associate Professor of Clinical Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1972</td>
<td>BS Beaufort Technical College 1968</td>
</tr>
<tr>
<td><strong>William G Powderly, MD</strong></td>
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</tr>
</tbody>
</table>
J. William Campbell Professor of Medicine (primary appointment)  
Larry J. Shapiro Director of the Institute of Public Health  
MD National University of Ireland 1979

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

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

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

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

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

Vajravel M Prasad  
Adjunct Instructor in Medicine (primary appointment)

Christopher William Prater, MD  
Instructor in Medicine (primary appointment)  
MD Michigan State University 2017

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

Niall Thomas Prendergast, MD  
Instructor in Medicine (primary appointment)  
BS Harvard University 2007  
MD Washington Univ in St. Louis 2014

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

Aaron J Pugh  
Adjunct Instructor in Medicine (primary appointment)

Edward Puro, MS, PhD, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MS University of Toronto 1966  
BS University of Toronto 1962  
PHD University of Toronto 1970  
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)  
BS University of Illinois Chicago 2002  
MD Northwestern University 2007

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

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

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

Srinivasan Raghavan  
Instructor in Clinical Medicine (primary appointment)

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

Srinivasan Dubagunta Rao  
Adjunct Instructor in Medicine (primary appointment)

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

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

Keith M Ratcliff  
Instructor in Clinical Medicine (primary appointment)

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

Felicia Ratnaraj, MD
Instructor in Medicine (primary appointment)
BA University of MO Kansas City 2012
MD University of MO Kansas City 2014

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
MA Harvard University 1973
PHD Yale University 1979
BA Harvard University 1973

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

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

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

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

Arhaanth D Reddy
Instructor in Clinical Medicine (primary appointment)

Kavitha Reddy
Assistant Professor of Emergency Medicine in Medicine (primary appointment)

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

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

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

Lester T Reese, MD

Professor of Clinical Medicine (Dermatology) (primary appointment)
MD Tulane University 1966
BS Tulane University 1962

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

Samuel W Reinhardt, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2014
BS Yale University 2010

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

Jacqueline Levy Reiss, MD
Assistant Professor of Medicine (primary appointment)
MD University of Missouri 1990
BA University of MO Kansas City 1989

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

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

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

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

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

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

Nancy Ridenour  
Adjunct Professor of Medicine (primary appointment)

Terrence E Riehl, MS, PHD  
Associate Professor of Medicine (primary appointment)  
BS Rutgers University 1974  
MS Rutgers University 1976  
PHD Ohio University 1981

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

Robert D Rifkin, MD  
Professor of Medicine (primary appointment)  
BS Mass Inst of Technology (MIT) 1968  
MD New York University 1972

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

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

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

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

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

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

Felice A Rolnick, MD  
Instructor in Clinical Medicine (primary appointment)  
MD School Not Listed 1987
Myra L. Rubio, MD
Associate Professor of Medicine (primary appointment)
MD Indiana University Bloomington 1998
BA Washington Univ in St. Louis 1994

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 (Pending Dean’s Approval) (primary appointment)
BS Saint Louis University 1977
MS Washington Univ in St. Louis 1992
BA Saint Louis University 1975

Emily Lindholm Rumora, MD
Instructor in Medicine (primary appointment)
MD Dartmouth College 2013

Brent E Ruoff, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
BS Saint Louis University 1977
MS Washington Univ in St. Louis 1992
BS Saint Louis University 1992

Michael B Rusche
Adjunct Instructor in Medicine (primary appointment)

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

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

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

Kenneth J Rybicki, PHD, MD, MS
Instructor in Clinical Medicine (primary appointment)
PHD University of Texas Austin 1984

S

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

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

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

J. Evan Sadler, MD, PHD
Professor of Medicine (primary appointment)
Professor of Biochemistry and Molecular Biophysics
MD Duke University 1979
PHD Duke University 1978

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

Joshua Michael Saef, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2014

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

Sonny Satnam Saggar
Instructor in Clinical Medicine (primary appointment)

Sana Saif Ur Rehman, MD
Instructor in Medicine (primary appointment)
MD King Edward Medical College 2007

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

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

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

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

Dmitri Samovski, PHD
Instructor in Medicine (primary appointment)
PHD Hebrew University 2009

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

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

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

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

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

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

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

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

BA Harvard Radcliff 1982

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

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

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

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

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

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

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

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

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

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

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

Alexander E Schuetz, MD
Instructor in Clinical Medicine (primary appointment)
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)  
BS University of Michigan 1980  
MA Washington Univ in St. Louis 1987  
MD Washington Univ in St. Louis 1987  
PHD Washington Univ in St. Louis 1986

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

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

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

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

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

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

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

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

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

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

Liang Shan, MS, PHD  
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
BS Nankai University 2003  
MS Fudan University 2007  
PHD Johns Hopkins University 2012

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

Rajiv Kumar Sharma  
Adjunct Instructor in Medicine (primary appointment)

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

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

Vidal T. Sheen, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Louisville 1995  
BA Johns Hopkins University 1991

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

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

Cara L Shirai, MS, PHD
Instructor in Medicine (primary appointment)
BS Southeast Missouri St Univers 2002
MS Southeast Missouri St Univers 2005
PHD Saint Louis University 2010

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

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

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

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

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

Julie Martha Silverstein, MD
Assistant Professor of Medicine (primary appointment)
Assistant 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 Sinneff, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Brown University 1996
BS Harvard University 1992

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

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

MD Delhi University 1975

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

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

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

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

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

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

Michael C Snyder
Adjunct Instructor in Medicine (primary appointment)

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

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)
MD Washington Univ in St. Louis 1980
BS Davidson College 1976

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

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

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

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

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

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

John Spertus
Adjunct Professor of Medicine (primary appointment)

Michael Spezia
Instructor in Clinical Medicine (primary appointment)

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

Karl Staser, PhD, MD
Instructor in Medicine (primary appointment)
PHD Indiana State University 2013
MD Indiana State University 2013

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

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

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)
MD Washington Univ in St. Louis 1971

Barbara B Sterkel
Adjunct Associate Professor of Medicine (primary appointment)

Karin Sterl, MD
Instructor in Medicine (primary appointment)
MD Lulu Hatieganu U of Med 2007

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

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

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

Keith Evan Stockerl-Goldstein, MD
Associate 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
BS Carleton University 2001
PHD University of British Columbia 2006

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

Kanagaraj Subramanian, MS, PHD  
Instructor in Medicine (primary appointment)  
MS Heidelberg University 2000  
PHD Heidelberg University 2007

Hani Suleiman, MD  
Instr in Medicine (primary appointment)  
MD Regensburg University 2007

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

William Craig Summers, MD  
Instructor in Clinical Medicine (primary appointment)  
BS University of Alabama 1994  
MD University of AL Birmingham 1999

Rama Suresh, MBBS  
Assistant 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 Svancarek, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
BA Saint Louis University 2001  
MD University of MO Columbia 2006

Elzbieta Anna Swietlicki, MS, PHD  
Assistant Professor of Medicine (primary appointment)  
MS Medical Academy Lodz 1975  
PHD Medical Academy Lodz 1981

Mohammad Tahir, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Dow Medical College Karachi 1976

Benjamin R Tan, MD  
Associate Professor of Medicine (primary appointment)  
MD University of the Philippines 1990

BS University of the Philippines 1985

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

Michael Edward Tang, MD  
Instructor in Medicine (primary appointment)  
MD Washington Univ in St. Louis 2014

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

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

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

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

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

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

Shaукat Thanawalla  
Instructor in Clinical Medicine (primary appointment)

Daniel Leonidas Theodoro, MD  
Assistant 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  
PHD University of Illinois 1990  
BS University of Illinois 1982

Benjamin S Thomas, MD
Adjunct Instructor in Medicine (primary appointment)
BS Georgia Tech 2002
MD Mercer University Macon 2009

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

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

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

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

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

Wael Toama, MD
Instructor in Medicine (primary appointment)
MD Damascus U. Medical School 2005

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

Fadi Tohme, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Anesthesiology
MD St. Joseph University, Beirut 2010

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

Michael H. Tomasson, MD
Adjunct Assistant Professor of Medicine (primary appointment)
MD Stanford University 1992
BA Wesleyan University 1986

Robert R Townsend, MS, MD, PHD
Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology

MS Tulane University 1976
MD Tulane University 1976
BS Centenary College 1972
PHD Johns Hopkins University 1982

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 (Pending Executive Faculty Approval) (primary appointment)
MD UNIVERSITY OF IOANNINA 2005

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

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

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

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

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

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

John W Turk, MD, PHD
Professor of Medicine (primary appointment)
Alan A and Edith L Wolf Professor of Endocrinology
Professor of Pathology and Immunology
MD Washington Univ in St. Louis 1976
PHD Washington Univ in St. Louis 1976
John T. Milliken Department of Medicine (01/16/18)

BA Washington Univ in St. Louis 1970

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Sarah Qian Wang, MD  
Instructor in Medicine (primary appointment)  
BS University of Texas Austin 2007  
MD Univ Texas Health Science Ctr 2012

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

Salama Naheed Waqar, MD  
Assistant Professor of Medicine (primary appointment)  
MD Aga Khan University 2001

Jeffrey Peter Ward, PhD, MD  
Instructor in Medicine (primary appointment)  
BS Wilkes University 2002

PHD SUNY - Empire State College 2010  
MD SUNY - Empire State College 2010

Corinna Hendrell Warren, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Southern Ill Univ Edwardsville 1990  
MD University of Illinois Chicago 1994

David K. Warren, MPH, MD  
Professor of Medicine (primary appointment)  
MPH Saint Louis University 2005  
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

Andrzej J. Wasiak, MD, PhD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD Szczecin Medical School 1972  
PHD Szczecin Medical School 1980

Scott P Wasserman, MA, MD  
Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
PHD Saint Louis University 1997  
BS Bradley University 1993

H. James Wedner, MD  
Phillip & Arleen Korenblat Professor of Allergy and Immunology in Medicine (primary appointment)  
BS Cornell University 1963  
MD Cornell University 1967

Xiaochao Wei, PhD  
Assistant Professor of Medicine (primary appointment)  
PHD University of Rochester 2007

Kevin D Weikart, MD  
Instructor in Clinical Medicine (primary appointment)  
MD American Univ of the Caribbean 1979

Gary J Weil, MD  
Professor of Medicine (primary appointment)  
Professor of Molecular Microbiology  
MD Harvard University 1975  
BA Harvard University 1971

Katherine N Weilbaecher, MD  
Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
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)
MD University of Rochester 1981
BA University of Vermont 1977

Steven Jay Weintraub, MD, MS
Assistant 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
Professor of Medicine (primary appointment)
BA Ohio State University 1963
MD Ohio State University 1966

Edward P Weiss, MS, PHD
Adjunct Research Assistant Professor of Medicine (primary appointment)
MS Southern Illinois University 1992
BS Southern Illinois University 1989
PHD University of Maryland 2003

Peter Douglas Weiss, MD
Instructor in Clinical Medicine (primary appointment)
MD Case Western Reserve Univ 1980
BA Harvard University 1975

John Sutton Welch, PHD, MD
Assistant Professor of Medicine (primary appointment)
PHD University of CA San Diego 2002
BS Brigham Young University 1995
MD San Diego St University 2004

Lynn Ellis Welling, MD
Adjunct Associate Professor of Medicine (primary appointment)
MD Uniformed Serv UofHealthSciences 1989

Alvin S Wenneker, MD
Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1949
MD Washington Univ in St. Louis 1953

Jennifer Marie Wessels, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2009

Peter Westervelt, MD, PHD
Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1992
PHD Washington Univ in St. Louis 1992
BA Colby College 1985

Patrick White, MD
Assistant Professor of Medicine (primary appointment)
BS Notre Dame College 2002
MD Ohio State University 2007

Michael Peter Whyte, MD
Professor of Medicine (primary appointment)
Professor of Genetics
Professor of Pediatrics
BA New York University 1968
MD State University of New York 1972

Burton M Wice, PHD
Associate Professor of Medicine (primary appointment)
BA University of Missouri 1975
PHD Washington Univ in St. Louis 1992

Cynthia A Wichelman, MD
Associate Professor of Emergency Medicine in Medicine
(primary appointment)
Course Director for the Mini-Medical School
BA University of California 1982
MD Stanford University 1988

Samuel A Wickline, MD
Adjunct Professor of Medicine (primary appointment)
BA Pomona College 1974
MD University of Hawaii 1980

John F Wiedner, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1985
BA Knox College 1982

Deborah A Wienski, MD
Instructor in Clinical Medicine (primary appointment)
MD Tufts University 1983
BA Smith College 1979

Tanya M Wildes, MD
Assistant Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 2002
BS Illinois Wesleyan University 1998

George A Williams III, MA, MD
Assistant Professor of Clinical Medicine (primary appointment)
MA Columbia University 1968
BA University of Notre Dame 1967
MD Univ of Wisconsin Madison 1972

Nancy J Williams, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Kansas 1987
BA Dartmouth College 1982

R. Jerome Williams Jr, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Harvard University 1973
MD Duke University 1977

Timothy John Williams, MD
Instructor in Medicine (primary appointment)
MD University of Cincinnati 2012
BA McKendree College 2008

Monita Elaine Wilson, PHD, MS
Associate Professor of Medicine (primary appointment)
PHD Brandeis University 1992
BS Southern Illinois University 1981
MS Southern Illinois University 1984

William Casey Wilson, PHD
Instructor in Medicine (primary appointment)
BS University of Oregon 2008
PHD Newcastle Polytechnic 2013

Patrick H Win
Instructor in Clinical Medicine (primary appointment)

David William Windus, MD
Professor of Medicine (primary appointment)
MD Creighton University 1978
BS Iowa State University 1974

Karen Winters, MD
Associate Professor of Medicine (primary appointment)
Director of the Student and Employee Health Service - Medical Campus
MD Southern Illinois University 1983
BS Illinois State University 1975

Chad Alan Witt, MD
Assistant Professor of Medicine (primary appointment)
MD University of Texas Southwest 2005
BS Texas Tech University 2001

Keith Frederic Woeltje, MD, PHD
Professor of Medicine (primary appointment)
MD Texas Southern University 1991
BS University of Dallas 1984
PHD Texas Southern University 1991

Edward M Wolfe, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
BA Hobart College 1956
MD Washington Univ in St. Louis 1960

Gerald Wolff, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Harvard University 1955
MD Washington Univ in St. Louis 1961

Nathan E Wolins, PHD
Assistant Professor of Medicine (primary appointment)
PHD George Washington University 1994

Terrence N Wong, MD, PHD
Instructor in Medicine (primary appointment)
BS University of Chicago 2007
MD Dartmouth College 2009
PHD University of Chicago 2007

John A Wood, MD
Associate Professor of Clinical Medicine (primary appointment)
MD University of Oklahoma 1968

Megan Elizabeth Wren, MD
Associate Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 1981
MD Washington Univ in St. Louis 1985

Jeffrey M Wright, MD
Assistant Professor of Clinical Medicine (primary appointment)
Assistant Professor of Clinical Pediatrics
BS Vanderbilt University 1975
MD Washington Univ in St. Louis 1979

Haojia Wu, PHD
Instructor in Medicine (primary appointment)
PHD University of Hong Kong 2014
BS Sun Yat-Sen University 2007

Xiaobo Wu, MD
Assistant Professor of Medicine (primary appointment)
MD Tongji University 1986

Y

Yan Xie, MS, MD
Instructor in Medicine (primary appointment)
MS Hubel Medical University 1991
MD Tongji University 1986

Naga M Yalla, MD
Assistant Professor of Medicine (primary appointment)
MD SRTR Medical College 2005

Timothy Teng-Kay Yau, MD
Assistant Professor of Medicine (primary appointment)
BA Saint Louis University 2001
MD Saint Louis University 2005

Derek Yee, MD
Instructor in Medicine (primary appointment)
MD Rutgers University 2014

Po-Yin Yen, MS, PHD
Assistant Professor of Medicine (primary appointment)
MS Oregon Health Science Univers 2005
BS National Cheng Kung University 2001
PHD Columbia University 2010

Wayne M Yokoyama, MD
Sam and Audrey Loew Levin Professor of Medicine (Rheumatology) (primary appointment)
Professor of Pathology and Immunology  
MD University of Hawaii 1978  
BA University of Rochester 1974  

Jun Yoshino, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Developmental Biology  
PHD Keio University 2004  
MD Keio University 2000  

Mihoko Yoshino, MD, PHD  
Instructor in Medicine (primary appointment)  
MD Keio University 2000  
PHD Shimane Medical University 2006  

Danicela Younce, MD  
Instructor in Medicine (primary appointment)  
BS University North Carolina 2008  
MD University North Carolina 2014  

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

Kevin Zheng Yuan, MD  
Instructor in Medicine (primary appointment)  
BS Washington Univ in St. Louis 2010  
MD Washington Univ in St. Louis 2014  

Roger D. Yusen, MD, MPH  
Associate Professor of Medicine (primary appointment)  
MD University of Illinois 1990  
MPH Saint Louis University 2002  
BS University of Illinois 1986  

Z  

Alan Zajarias, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Surgery (Cardiothoracic Surgery)  
MD National Autonomous U of Mex 2000  

John F. Zalewski, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Clarkson University 1973  
MD State Univ of NY Buffalo 1980  

Qiang Zhang, PHD, MCHEM  
Instructor in Medicine (primary appointment)  
BS Xiamen University 1995  
PHD University of CA Santa Barbara 2003  
MCHEM Xiamen University 1998  

Yong Zhang, MS, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
MS Sun Yat-Sen University 1983  
PHD Albert Ludwig University 1999  
MD Anhui Medical University 1978  

Amy Wei Wei Zhou, MD  
Instructor in Medicine (primary appointment)  

BS University of Michigan 2005  
MD Wayne State University 2009  

Jian Zhu, PHD  
Instructor in Medicine (primary appointment)  
PHD Oklahoma St University 2004  

Robert E Ziegler, MD, PHD  
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)  
MD Duke University 1980  
PHD Duke University 1980  
BA University of Colorado Boulder 1972  

Courses  
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M25 Medicine 507 Practice of Medicine I  
The practice of medicine requires that physicians integrate a diverse array of knowledge. Clinicians must interview and examine a patient, understand that patient's experience of illness, develop an evidence-based differential diagnosis, and engage patients in their treatment plan, all while attending to the ethical dimensions of clinical medicine. Physicians must understand how to promote the health of populations as well as that of individual patients. Physicians must also master skills for lifelong learning to remain competent professionals. The Practice of Medicine I (TPM I) is the first part of a three-year course about the interfaces between patient, doctor and society. The course is organized around the Content Areas described below. In addition, regular Integrative Case Sessions will highlight the interrelationships of the TPM Content Areas. Primary Care Preceptor sessions will provide each student with an introductory experience in outpatient medicine. Content Areas:  
• The Experience of Illness, Stephen S. Lefrak, MD. The practice of medicine reflects the tension between the unique story of individual patients and the generalized scientific understanding of disease. Physicians must learn to understand and resolve this tension as much as possible. The Experience of Illness is intended to help the student become aware of those areas that determine this unique response to biological processes. In addition to readings and small group discussions, students will write both a personal illness narrative and a patient-centered narrative following a home visit to a patient.  
• Health Promotion/Disease Prevention, Bradley Evanoff, MD, MPH. This overview of public health and preventive medicine will combine theory and application to allow students to interpret the scientific literature, to approach clinical medicine with an emphasis on prevention, and to understand aspects of the social, economic, and political environments which affect health and health care. We will focus on methods of primary and secondary prevention, and on nutritional, environmental, and behavioral factors that impact health. Discussions will include immunization, screening for chronic diseases, and effects of toxic exposures.
M25 Medicine 607 Practice of Medicine II
The goal of The Practice of Medicine (TPM) is to provide students with a set of knowledge, skills and attitudes essential to patient care regardless of specialty. TPM II is a continuation of TPM I and will build on concepts introduced during TPM I. TPM II will continue to address various interfaces between patients, physicians and society and will also introduce approaches to clinical thinking and decision-making in the context of today’s socioeconomic and cultural environment. The sections of TPM II include Advanced Physical Examination, Case Development, Communication, Ethics and Health Policy, Health Promotion/ Disease Prevention, Interpreting Illness, Ophthalmology, Patient Sessions, Radiology, and Scientific Methods. The learning objectives for each section of TPM II emphasize topics and skills utilized in all fields of medicine, and the majority of the course work for TPM II will be taught in small groups or through clinical experiences.
Credit 99 units.

M25 Medicine 611B Cardiovascular Disease
The purpose of this course is to consider the mechanisms and manifestations of acquired and congenital cardiovascular disorders as well as their pharmacologic treatment. Lectures and group discussions are provided which emphasize the major areas of cardiac pathophysiology and pharmacology. Credit 30 units.

M25 Medicine 612B Pulmonary Diseases
The objectives of the pulmonary pathophysiology course include to review normal pulmonary physiology as related to specific pulmonary disease states. The focus of the course will largely be upon presentations in lectures concerning pathophysiologic principles of abnormal lung structure and function. In addition, case study problems will be discussed.
Credit 22.5 units.

M25 Medicine 613B Renal & Genitourinary Diseases
After a review of normal renal physiology and structure, the course focuses upon renal disease states including glomerulonephritis, secondary glomerulo diseases, diabetic and tubulointerstitial nephropathies, disorders of fluid volume and osmolality, electrolyte and acid/base disturbances, hypertension, renal infection, nephrothiasis, as well as acute and chronic renal failure. Teaching of renal pathophysiology is integrated with the renal segment of the pathology course. Lectures are supplemented by clinical case discussions in small groups.
Credit 38 units.

M25 Medicine 614 Dermatology
The dermatology second-year course is designed to teach medical students 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 Gastroenterology and Liver Diseases/Nutrition
This course discusses the pathophysiological mechanisms involved in producing disease 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 clinical case presentations. Credit 32 units.

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

M25 Medicine 707 Practice of Medicine III
Objectives: 1. To review challenges and dilemmas relevant to the practice of clinical medicine. 2. To examine clinical experiences from a variety of perspectives. In this course, themes and topics relevant to students in their clinical stage of training are discussed. Session formats include lecture, panel discussion and/or small group. As students exchange problematics questions and scenarios, the group develops potential solutions and management schemes. Topics in the past have included: Session 1: Complementary and Alternative Medicine; Session 2: Safe and Quality Care at BJH; Session 3: Communicating Serious Adverse Events to Patients and Families; Session 4: Intimate Partner Violence; Session 5: Medical Malpractice/Tort Reform; Session 6: Health Care Financing; Session 7: Update on the Patient Protection and Affordable Care Act (PPACA); Session 8: Clinical Practice Management; Session 9: Recognizing Personal Biases; Session 10: Evaluation and Treatment of Patients with Disabilities. Attendance at eight 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. Credit 154 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 clergers to patients admitted to the general medical teaching services of Barnes-Jewish Hospital and Veterans Administration Medical Center. For the outpatient rotations, students rotate through the ambulatory general medicine clinics at Barnes-Jewish Hospital and a community-based internal medicine practice. Teaching is provided by the chief of service, attending physicians, house officers, consultants, chief residents and regularly scheduled conferences. Formal instructions are given regarding core internal medicine topics during the clerkship. A minimum of 12 weeks is required: three consecutive four-week rotations. Credit 462 units.

M25 Medicine 714 Ambulatory Clerkship: Emergency Medicine
The Urgent Care area (UCA) serves as our site for the WUSM III Ambulatory Care Rotation. Three students at a time are assigned to this four-week rotation. Students will spend their first day in an orientation session learning suturing, ECG interpretation and airway management (including intubation skills) in hands-on laboratories. They will also review pelvic examinations and view an education video on domestic violence. On day two, they begin primarily evaluating non-emergent patients in Urgent Care and report directly to an Emergency Medicine attending. There are four hours of conferences per week (8-10 a.m. on Tuesday and Wednesday mornings) — attendance is mandatory. Discussions are currently underway to allow students to participate in helicopter rides-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 730 Physical Medicine and Rehabilitation Clerkship
Clerkship in PM&R for third-year medical students provides an opportunity to gain basic knowledge and clinical skills in evaluation and management of a wide range of neurological and musculoskeletal diseases and conditions that require specialized rehabilitative medical and therapeutic care. Students spend two weeks on the Spinal Cord Injury Unit (SCI) and two weeks on the Brain Injury (BI) and Stroke Unit at The Rehabilitation Institute of St. Louis. Students are expected to be a part of the rehabilitation team, follow three to five patients, participate in daily morning rounds, participate in performing consults, and attend team meetings and family conferences. Students are required to attend several outpatient clinics such as SCI, BI, Amputee and Stroke. During the entire rotation, students work with PM&R residents and fellows, and under direct guidance of the NeuroRehabilitation faculty. The usual duty hours are 7:30 a.m. to 5 p.m. weekdays and 8 a.m. to noon on Saturdays. There is no night call. Students are required to attend all PM&R curriculum lectures and conferences. On the first day of rotation, students meet with the PM&R program director to go over goals, objectives and schedules. Upon completion of the rotation, students are required to fill out the evaluation form to provide feedback regarding rotation experience. 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 the four-week clerkship in Geriatrics is to provide an opportunity for students to gain proficiency in the principles of geriatric evaluation, including the medical, psychological, social, and functional assessments of older adults. Direct, hands-on experience with patients is a major feature of the clerkship. Students are expected to participate in the evaluation of three to five patients per week, in a variety of settings including the hospital Acute Care for the Elderly (ACE) unit on 3200 North Campus, the Older Adult Outpatient Assessment Program (Storz building), and the Long Term Care Setting (Barnes Extended Care in Clayton). Students attend hospice, geropsychiatry rounds, and the geriatric conferences while on the rotation. Students are assigned to a variety of attendings to enhance the experience. There is no night call or call on weekends. Participation on the hospital consult service will occur depending on volume. The day normally begins at 8:00 a.m. and is usually finished by 5. There will be time to read the detailed syllabus/bibliography. Students will be asked to present a brief topic of their choice at the end of the rotation and demonstrate knowledge of the geriatric screens and assessments.
Credit 154 units.

M25 Medicine 801 Honors Medicine - General Medicine
The purpose of the Honors Medicine elective (sub-internship) is the development of expertise in the care of hospitalized patients in a well-supervised teaching environment. Sub-interns act as their patients’ interns under the supervision of residents and attending physicians. Sub-interns 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. Sub-interns are not required to spend call nights in the hospital. Except in emergencies, sub-interns 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. Sub-interns 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. Sub-interns attend the same conferences as the house staff.

M25 Medicine 805 Rheumatology
Students will be involved in the diagnostic workup and management of patients with rheumatic illnesses including systemic lupus erythematosus, rheumatoid arthritis, vasculitis (polyarteritis, Wegener’s, temporal arteritis), spondyloarthropathies (ankylosing spondylitis, reactive arthritis), osteoarthritis, gout 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 Honors Medicine - VA Hospital
The purpose of the Honors Medicine elective (sub-internship) at the VA Medical Center is to develop practical experience and expertise in the care of hospitalized patients on an internal medicine ward. With appropriate supervision by the attending and resident physicians, sub-interns will have similar responsibilities as interns. 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. Sub-interns 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. While being supervised as listed above, sub-interns assume primary responsibility for the daily care of their patients, including evaluation on daily rounds, scheduling and obtaining results of diagnostic studies, calling consults, planning therapy, making arrangements for care after discharge, and communicating with patients and their families.

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, 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, 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. Students will be expected to give an oral presentation on a topic of their choice once during the rotation.

M25 Medicine 811 Clinical Internal Medicine - Hospitalist
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 814 Clinical Emergency Medicine - Barnes-Jewish Hospital
This rotation offers practical experience in the evaluation and management of acutely sick and injured patients. Students will function as sub-interns, initially evaluating their assigned patients and developing a plan for further diagnostic studies and therapy. They will report to a senior-level resident or an attending physician. The student can expect to get an opportunity to perform a wide variety of procedural skills such as suturing, splinting, peripheral and central venous access, and cardiopulmonary resuscitation. Shifts will be eight hours, and students will rotate between day, evening and night shifts, including weekend shifts, in order to gain maximum exposure to all types of emergencies. A core content of lectures will be provided. Students will gain an understanding of prehospital care by doing a ride-along shift with the St. Louis Fire Department EMS. Students will also have a shift with the toxicology attendings and residents and will gain knowledge of the basics of ultrasound during their time in the department. Students
interested in EM will be doing 1:1 shifts with a single attending during their last two weeks of the rotation. Students desiring a letter of recommendation from any EM attending should take this WUSM IV Emergency Medicine rotation. Students will be scheduled for required weekend and overnight shifts, and changes will not be allowed to the schedule unless approved prior to the start of the rotation by the course coordinator. Please be advised that there is a limit of days off while on this rotation during interview season; otherwise, students should arrange to take the elective at a different time during the year. Days off during the rest of the year will conform to university policy. Days off should be requested from the course coordinator at least two weeks prior to the beginning of the rotation for scheduling purposes.

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 specialists 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 Honors Medicine - Cardiology
The structure and functioning of the Honors Medicine-Cardiology elective (sub-internship) is very similar to the general medicine sub-internship (M25 801). 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 residents for the service on a monthly basis. Sub-interns act as their patients’ interns under the supervision of residents and attending physicians. Sub-interns 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. Sub-interns are not required to spend call nights in the hospital. Except in emergencies, sub-interns 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. Sub-interns 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. Sub-interns 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
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 rounds, trainees are invited to attend both heart failure and transplant clinics. Further, the curriculum is supplemented by a comprehensive 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. Students 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. Enthusiastic students will have an opportunity to write up a case report if they wish, but need to notify the instructor before the course.

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 and supervised sessions with clinical faculty. The primary format of the elective is observation of the first-year students during hospital sessions.
where the first-years perform the H&P and the fourth-year mentors offer constructive feedback. Each H&P write-up is also thoroughly reviewed and critiqued by the mentor. Supervisory sessions also occur with clinical faculty who give feedback on both the performance of the first-year students as well as the mentoring skills of the fourth-year.

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

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

**M25 Medicine 842 Introduction To Wilderness Medicine**
The purpose of this course is to introduce medical students to common medical problems both emergent and nonemergent seen in various wilderness settings. After taking this course the student should have a basic understanding of the pathophysiology and management of these problems in an environment with limited access to medical aid. The course will involve four days of four-hour lectures each week along with one 1-2 day required overnight camping trip. Requirements to pass this course include completing a presentation on a topic of their choosing that is approved by the course director as well as a skills and written test.

**M25 Medicine 843 Medical Toxicology**
This rotation offers practical experience in the evaluation and management of the acutely ill poisoned patient. Students will function as sub-interns and either report to the senior resident, fellow, or directly to the toxicology attending. Students will gain familiarity and experience evaluating and treating patients who have intentionally and unintentionally overdosed on medications or illicit drugs, been envenomated (such as by spiders, snakes, or other reptiles), or been exposed to toxic substances or chemicals. Students will also gain experience in administering antidotes and learning to properly decontaminate someone after an ingestion or exposure. There are no overnight or weekend shifts. Daily activities start in the morning and are generally concluded by the early afternoon. A core content of lectures will be provided. The students will also be assigned small projects during their rotation that will enhance their experience particularly in environmental and occupational toxicology. Opportunities to increase their experience with occupational toxicology also exist during this rotation; those with this interest can ask for further information during their rotation. Students will have also the opportunity to go to the Missouri Poison Center and evaluate patients in the outpatient toxicology clinic. Students desiring a letter of recommendation from one of the toxicology attendings (who are also Emergency Medicine and Internal Medicine attendings) or interested in Emergency Medicine or Medical Toxicology should take this elective. Also, students considering other specialties such as Pediatrics or Internal Medicine should consider this rotation as they will be responsible for evaluating these patients as part of their inpatient or outpatient practice. Please be advised that there is a limit of days off while on this rotation during interview season; otherwise, students should arrange to take the elective at a different time during the year. Days off should be requested from the course coordinator at least two weeks prior to the beginning of the rotation for scheduling purposes. Students should receive a course guide just prior to their rotation. However if they do not, they can page the toxicology pager at 314-672-0284 to determine when and where to meet for rounds.

**M25 Medicine 844 Hematology and Hemostasis**
Activities planned include workup of patients at Barnes-Jewish Hospital under the supervision of the hematology fellow and his staff consultant; attendance at clinical rounds three to five hours weekly; participation in outpatient clinics; experience in various procedures, especially blood and bone marrow morphology and in interpretation of coagulation tests. Daily student rounds with a senior staff person.

**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 noninvasive methods for measuring bone mass in the diagnosis and management of skeletal diseases also will be stressed. Faculty and medical students will present interesting cases for discussion or the students can present a pertinent topic related to bone metabolism they have researched during their rotation.

**M25 Medicine 853 Bone and Joint Infectious Disease Consult**
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 Infectious Disease are a prerequisite to this course.
M25 Medicine 854 Transplant Infectious Disease
Study of infectious diseases in patients who have had bone marrow or solid organ transplants, or who have a hematologic malignancy. The elective is designed to teach students the fundamentals of evaluating clinical infections in these complex and interesting patients and formulating plans for workup and therapy. Students see consultations in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with infectious disease fellows, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics, antifungal and antiviral agents in this highly immune compromised 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 Disease
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, sexually transmitted diseases and travel plans. Patients seen will have a wide range of acute and chronic infections with a heavy emphasis on HIV/AIDS, including indigent and insured patients, of both sexes and a wide range of ages. The students will play an important role in the management of these patients. They are expected to read the literature about their patients and participate in clinical conferences.

M25 Medicine 859 General Inpatient Infectious Disease
Study of patients with infectious diseases, including inpatient care of HIV-infected patients and general infectious disease consults. The elective is designed to teach students the fundamentals of evaluating clinical problems in infection 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 medical residents and infectious disease fellows, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics, antifungal and antiviral agents. A wide distribution of infectious diseases is covered including community-acquired acute and chronic infections, opportunistic infections in HIV-infected patients, hospital-acquired infections, and basic infection control practices. This is a four-week rotation. Two-week rotations are allowed, but must be done in conjunction with two weeks of Transplant Infectious Disease or Bone and Joint Infectious Disease.

M25 Medicine 861 Oncology - Inpatient
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 to observe 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 pharmacological basis for systemic cancer treatment. The ethical and medical challenges of caring for patients with advanced incurable malignancies will also be an important theme, as well as the conduct of clinical research in this patient population. Students will 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 862 Inpatient Internal Medicine/Oncology - Firm
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 and lymphoma. 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 pharmacological basis for systemic cancer treatment. The ethical and medical challenges of caring for patients with advanced incurable malignancies will also be an important theme, as well as the conduct of clinical research in this patient population. Students will 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. Major learning goals: (1) Become familiar with frequent complications of cancer treatment such as neutropenic fever, nausea/vomiting, diarrhea, infectious complications and their management. (2) Become familiar with oncologic emergencies (spinal cord compression, hypercalcemia, neutropenic sepsis) and their management. (3) Become more comfortable interacting with patients and families requiring difficult psychosocial and end-of-life discussions.

M25 Medicine 863 Emergency Ultrasound
This rotation will focus on ultrasound and all of its many applications and uses in the Emergency Department. Students will participate in the performance of bedside ultrasound of patients in the Emergency Department. Common applications of emergency ultrasound include the FAST exam, pelvic ultrasound, Abdominal Aortic Aneurysm (AAA), vascular access, renal, gallbladder, and DVT. In general, the student will be in the Emergency Department during weekdays to perform these exams. Students will not be involved in direct patient care during this rotation. Students will have access to a lecture bank of the common applications. In addition, the student will meet with the ultrasound director 1-2 times/wk to review images and have direct hands-on instruction. At the end of the rotation the student should have gained the knowledge of basic emergency
ultrasound including its indications and applications; as well as becoming more adept at the performance of ultrasound.

**M25 Medicine 865 Intensive Care Medicine**
This elective in intensive care is offered in the Intensive Care Unit at Barnes-Jewish Hospital, South Campus. This unit has 16 intensive care beds providing intensive nursing care and life-support technology. The patients represent a mixture of patients with primarily medical problems. Patient care responsibility includes night call. In addition to patient responsibility, there are regularly scheduled conferences and attending rounds.

**M25 Medicine 867 Medical Intensive Care**
This elective is offered as an opportunity to gain additional experience in acute, primary care medicine. The elective is an advanced course in patient care involving complex medical problems. Responsibilities involve working up new patients with the MICU team, case presentations and attendance at conferences. Conferences consist of attending rounds Monday through Saturday and attending rounds Monday through Saturday. They will also participate in pulmonary conference and medical grand rounds on Thursday, and critical care conference once each month. Call schedule is every third night.

**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. While in the hospital, students will be responsible for seeing patients upon initial assessment as well as 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 participate in complicated advanced care planning. Students will attend interdisciplinary team meetings, and 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 service at Barnes-Jewish Hospital and will also see patients with endocrine and metabolic diseases in the Outpatient Consultation. They will present these cases daily on teaching rounds. They will also participate in case conferences and seminars on a weekly basis. Extensive interaction with patients with diabetes and a diabetes education program are included, as is involvement with patients with thyroid, pituitary, adrenal, gonad, metabolic bone disease, and lipid disorders. Ample opportunities will be provided for discussions of patient problems with the members of the division. A variety of outpatient clinics are offered in the division, and 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 inpatient and outpatient management of diabetes including insulin dosing and glucose monitoring, as well as 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 have in 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**
The student, during the two-week elective, will read 20-25 ECGs obtained from the Barnes-Jewish Heart Station and then 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; 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 882 Pulmonary Medicine - VA Hospital
Students will participate in several ambulatory care activities of the Pulmonary Section, including outpatient consultations of common respiratory disorders such as COPD, obstructive sleep apnea, lung cancer and tuberculosis, and follow-up of primary care patients with pulmonary disease. In addition, students will work in medical intensive care units, interpret pulmonary function tests, participate in bronchoscopy and attend scheduled teaching conferences of the Pulmonary Division.

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, and stem cell biology. 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 885 Occupational/Environmental Medicine
This elective is designed to introduce students to research and practice in the prevention of work-related injuries and illnesses, and prevention of health effects related to environmental exposures. Preventive activities will include work site visits and intervention projects, as well as involvement with work site health promotion and policy making. Research projects involve epidemiology and intervention projects in work-related injury and musculoskeletal disorders. Specific activities are flexible depending on the students' interests. Students may elect to participate in the Interdisciplinary Environmental Clinic at Washington University. Based in the law school, the clinic involves interdisciplinary teams of students (law, engineering, environmental science) taking principal responsibility, under faculty supervision, for cases and projects on behalf of environmental and community organizations. The medical student(s) assist clinic students by evaluating the human health impacts involved in one or more of the clinic's cases, and presenting such information to the client organization(s) and others. Among the cases on which medical students might participate are: (1) air pollution associated with factories in the St Louis metropolitan area; (2) lead poisoning of children and adults in St. Louis and surrounding towns; (3) air and water pollution caused by concentrated animal feeding operations (factory farms) in Missouri. Students choosing this option will work with the Environmental Clinic staff and with Dr. Evanoff to evaluate and present evaluations of human health impacts of environmental exposures.

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, the transplant service, the various CKD clinics, and all modalities of dialysis, including in-center, home, and peritoneal dialysis.

M25 Medicine 893 Adult Allergy and Clinical Immunology
Students will participate in the allergy consult service at Barnes-Jewish Hospital, North and South Campus. The student will serve as the primary allergy consult for inpatient and Emergency Room consultation and present each patient to the allergy fellows on call and the attending physician. Students will attend The Adult Allergy Clinic, Pediatric Allergy Clinic, and the outpatient clinics at The Asthma & Allergy Center at Barnes-Jewish West County Hospital. Conferences on selected topics in allergy and clinical immunology will be held with the attending staff two to three afternoons a week.

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