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. 4), please refer to the information at the bottom of this section.

M25 Medicine 900

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

Research in this translational physiology laboratory is focused on 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.

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

Special projects in medical education. Through special arrangement with and approval by the course director, 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 director 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 director. This is open only to Washington University School of Medicine students.

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

Occupational medicine epidemiology and intervention research. Our research involves the use of epidemiology methods to characterize associations between diseases and work-related exposures. We are also doing workplace intervention studies to prevent injuries and illnesses, and to improve healthy diet and physical activity among working populations. During an elective in occupational medicine epidemiology research, students will learn how to use epidemiologic methods to investigate disease processes by working on a mutually agreed-on topic of interest related to occupational diseases. Other activities can include 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@wustl.edu)
or Lisa Hayes
Phone: 314-362-4362
Email (hayesl@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 directors to discuss study progress and to identify any roadblocks to study completion. These meetings will also serve as a forum for one-on-one education of the student regarding study methodology, ethical issues in research, and various resources available to the clinical researcher at Washington University.

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

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.

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
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.

Richard E. Ostlund, MD
8804 Wohl Hospital
Phone: 314-286-2341

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

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

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

Katherine Ponder, MD
8818 Cancer Science Research Building
Phone: 314-362-5188
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 mucopolysaccharidoses (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
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 alternants 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 Stachybotrys atra, 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

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

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

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

Daniel E. Goldberg, MD, PhD
David M. and Paula L. Kipnis Distinguished Professor Co-Chief, Division of Infectious Diseases
Daniel M. Goodenberger, MD  
Professor of Medicine  
Chief, Veteran's Administration

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

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

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

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

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

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

J. Evan Sadler, MD, PhD  
The Foundation for Barnes-Jewish Hospital's Ira M. Lang Endowed Chair  
Chief, Division of Hematology

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

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

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

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

A

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Sr Associate Dean for Education  
BA University of CA Santa Barbara 1991  
MD Cornell University 1995

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MD New York University 1975

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MD American University of Beirut 1974  
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Associate Professor of Medicine (primary appointment)  
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PHD Purdue University 1978  
BS State University of New York 1974

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Instructor in Medicine (primary appointment)  
PHD University of Nice 2013  
MS University of Paris 2009  
BS Holy Spirit Univ of Kaslik 2006  
MS University of Nice 2008

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BS American University of Beirut 1972

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MD University of Missouri 1989  
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BS Wright State University 1982  
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BA UT Permian Basin 2017  
MD UT Medical Branch 2017

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MD Johns Hopkins University Med 2003
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BS University of Maryland 2017
MD University of Maryland 2017

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MD Aleppo University 1991

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MS Pennsylvania State University 2013

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BS Indiana State University 2005
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MD University of Bombay 1995

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BS Loyola College 1990
MD1 Hahnemann University 1994
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**Thomas Joseph Bartholet, MD1, MD**
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BS Stanford University 1978

**Robert W Barton, PhD, MD**
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**Jeannine Basta, PhD**
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**Luis Francisco Zirnberger Batista, PHD**
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Assistant Professor of Developmental Biology
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**Brian John Bausano, MD**
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**Frederick D Bauschard, MD**
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**Michael A Berk, MD**
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Instructor in Clinical Medicine (primary appointment)
UNKNOWN University of Madras 1988

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BS State University of New York 1973

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BA Amherst College 1959

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Thomas M Birkenmeier, MD
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Kumar Sanjeev Bishnupuri, PHD, MS
Instructor in Medicine (primary appointment)
BS Tilka Manji Bhagalpur Univ 1988
PHD Banaras Hindu University 1999
MS Banaras Hindu University 1992

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Instructor in Medicine (primary appointment)

PHD University of Bordeaux 2 1996
MS University of Bordeaux 2 1992

Melvin S Blanchard, MD, BBA
Professor of Medicine (primary appointment)
Director of Residency Program, Department of Internal Medicine
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BBA Trevecca Nazarene College 1987

Merilda O Blanco-Guzman, MD
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MD PUCMM FACULTAT DE CIENCIAS DEL 2004

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BS University of Notre Dame 1977

Donald Allen Blum
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Matthew James Bonzelet, MD
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Assistant Professor of Molecular Microbiology
Assistant Professor of Pathology and Immunology
MS University of Amsterdam 1997
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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, MD, PHD, PHD1
Associate Professor of Medicine (primary appointment)
Associate Professor of Cell Biology and Physiology
BA University of Rhode Island 1991
MD Cornell University 1999
PHD Cornell University 1998
PHD1 Cornell University 1998
BS University of Rhode Island 1991

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

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

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

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

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

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

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

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

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

PHD University of Nebraska 1999

Tiffani JeDawn Bright, PHD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
BS University of Maryland 2004
PHD Columbia University 2009
BA College of William and Mary 2001

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

Steven L Brody, MD
Dorothy R and Hubert C Moog Professor of Pulmonary Diseases
MD University of Michigan 1980

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

Christopher B. Brooks, MD
Associate Professor of Emergency Medicine in Medicine
MD Georgetown University 1982

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

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

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

Jeffrey Wade Brown, PHD, MD
Instructor in Medicine (primary appointment)
PHD Boston University 2012
MD Boston University 2012

George John Broze Jr, MD
Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
Professor of Pathology and Immunology
MD University of Washington 1972
BS University of Washington 1968
Robert M Bruce, MD  
Professor of Clinical Medicine (primary appointment)  
MD University of Minnesota 1968  
BA Washington Univ in St. Louis 1964  
BS University of Minnesota 1968  

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

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

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

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

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

Melvin J Butler  
Instructor in Clinical Medicine (primary appointment)  

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

Derek E Byers, MD, PHD  
Associate Professor of Medicine (primary appointment)  
MD University of Texas Southwest 2001  
BS University of Oklahoma 1993  
PHD University of Texas Southwest 2001  

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

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

Matthew David Cain  
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
BS Rhodes College 2007  

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

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

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

Rosemary L Cannistraro, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1992  

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

Rebecca Goodwin Carey  
Adjunct Instructor in Medicine (primary appointment)  

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

Kim Alan Carmichael, MD  
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 MO Columbia 1981
Scott Carrizales, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
BA University of Texas Austin 1992
MD Uniformed Serv U of Health Sciences 1996

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

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

Roque Castillo
Assistant Professor of Medicine (primary appointment)

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

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

Hamza Celik, PHD
Instructor in Medicine (primary appointment)
BS University of Westminster 2009
PHD AIX-MARSEILLE UNIVERSITY 2013

Murali M Chakinala, MD
Professor of Medicine (primary appointment)
BS Duke University 1990
MD Vanderbilt University 1994

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

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)
MD University of Missouri 1995

BA Washington Univ in St. Louis 1991

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

Monica Chang-Panesso, MD
Assistant Professor of Medicine (primary appointment)
MD Texas Tech University 2009

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

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

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

Salman Chaudhry, MBBS
Instructor in Medicine (primary appointment)
MBBS Agha Khan University, Pakistan 2007

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Instructor in Clinical Medicine (primary appointment)
MD Nanjing Medical University 1983
BS Nanjing Medical University 1988
UNKNOWN School Not Listed 1983

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

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

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

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

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

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

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

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

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

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

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

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

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

Stephen Wen-Yan Chi, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2016

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

Courtney Darcey Chrisler, MD
Assistant Professor of Medicine (primary appointment)

BS Northwestern University 2003
MD Washington Univ in St. Louis 2007

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

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

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

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

Jeffrey Peter Ciaramita
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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

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

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

**Sarah F Cole**
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

**Matthew Cooper, PHD**
Instructor in Medicine (primary appointment)
PHD University of Surrey 2008

**Matthew Cooper**
Instructor in Medicine (primary appointment)

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

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

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

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

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

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

**Sarah F Cole**
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

**Matthew Cooper, PHD**
Instructor in Medicine (primary appointment)
PHD University of Surrey 2008

**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

**Natalie Danielle Cosgrove**
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)

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

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

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

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

**Clarissa S. Craft, PHD**
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
BS Beloit College 2003
PHD Northwestern University 2007

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

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

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

**Zachary David Crees, MD**
Instructor in Medicine (primary appointment)
BA University of Colorado 2011
MD University of Illinois 2015

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

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

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

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

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

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

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

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

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

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

William H Danforth, MD
Professor of Medicine (primary appointment)

Vice Chairman and Chancellor Emeritus
BA Princeton University 1947
MD Harvard University 1951

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

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

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

Peter G Danis
Instructor in Clinical Medicine (primary appointment)

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

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

Bhajan Shewaldas Dara, MD
Instructor in Clinical Medicine (primary appointment)
MD Sindh Medical College 1987

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

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

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

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

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

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

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

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, MD, MSN
Instructor in Clinical Medicine (primary appointment)
BS Randolph Macon College 1997
MD University of Puerto Rico 2004
MSN Arizona State University 2000

Thomas Edward Davis
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

Rowena Bayudan Delos Santos, MD
Assistant Professor of Medicine (primary appointment)
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 Deptola, MD
Assistant Professor of Medicine (primary appointment)
BS Miami University 2008
MD University of Louisville 2012

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

Teresa Deshields, PHD, MS
Associate Professor of Clinical Medicine (primary appointment)
Associate Professor of Clinical Psychiatry
PHD University of Georgia 1985
MS University of Georgia 1983
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 (primary appointment)
MD Indira Gandhi Medical College 2009

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

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

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

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

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

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

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

Richard M Divalerio, MD
Instructor in Clinical Medicine (primary appointment)
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)
PHD University of Illinois 1999
BS Southern Illinois University 1993

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

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

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

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

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

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

Edward Harry DuMontier
Instructor in Clinical Medicine (primary appointment)

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

Kirsten F Dunn, MD
Assistant Professor of Medicine (primary appointment)
BS Harvard University 2007
MD Saint Louis University 2012

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

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

Tiffany Blason 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)
MD University of Missouri 1990
BA University of Missouri 1986

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

Charmaine E. Edwards, MD
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MD Howard University 1992
BS Alcorn State University 1987

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UNKNOWN School Not Listed 1982
MS School Not Listed 1986

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Instructor in Clinical Medicine (primary appointment)
MD University of Khartoum 1985
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PHD University of South Carolina 2011
BS Columbia College 2005

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BS University of Illinois 1967
MD Washington Univ in St. Louis 1971

Neil A Ettinger, MD
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BS Vanderbilt University 1979
MD Washington Univ in St. Louis 1983

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)
BA Brown University 1973
MD Brown University 1977

John T. Milliken Department of Medicine (08/07/18)
Gregory A Ewald, MD  
Professor of Medicine (primary appointment)  
MD Northwestern University 1989  
BS University of Illinois 1985

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

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

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

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

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

Mark A Fiala  
Instructor in Medicine (primary appointment)  
BS Southeast Missouri St Univers 2006

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

Brian N. Finck, MS, PHD  
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MS University of Illinois 1996  
BS University of Illinois 1994  
PHD University of Illinois 2000

Lewis Conrad Fischbein, MD  
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BA University of Rochester 1970  
MD Washington Univ in St. Louis 1974

Peter Uwe Fischer, PHD, MS  
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

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

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

Aveigail Gascon Flores, MD  
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MD University of Pittsburgh 2007

Emily Fondahn, MD  
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MD Northwestern University 2008

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MD University of Verona 1994  
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Randi Elizabeth Foraker, MA, PHD  
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MA University of Iowa 1999  
PHD University North Carolina 2010  
BA University of Iowa 1997

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PHD University of MO St Louis 2013  
BN Webster University 2003  
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Victoria J Fraser, MD  
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Head of the Department of Internal Medicine
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BS Truman State University 1998  
MD University of MO Columbia 2002

Deborah Frenchie, MD  
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MD Washington Univ in St. Louis 1993  
BA Washington Univ in St. Louis 1984

Ashley Elizabeth Frith, MD  
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MD University of AR Med Sciences 2008  
BS Christian Brothers University 2004

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Instructor in Medicine (primary appointment)  
MD University of Chicago 2015  
BS University of Kansas 2010

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MD University of Cincinnati 2002

Michael Paul Fuller, MD  
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MD University of Utah 1994  
BA Brigham Young University 1990

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MD University of Alabama 2003  
BA University of Alabama 1998

Suzanne Furesz  
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Gary Gaddis, PHD, MD  
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PHD Indiana State University 1984  
MD Indiana University School of M 1986

Brian F Gage, MD, MS  
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MD University of California 1988  
MS Stanford University 1995  
BS Stanford University 1984

Daniel Gaitan, MD  
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MD University of Mississippi 1986

Arthur H Gale, MD  
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MD University of Missouri 1959  
BS Washington Univ in St. Louis 1955

Jane M. Garbutt, MHS, MBCHB  
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Professor of Pediatrics  
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MBCHB Bristol University 1977

John A Garcia, MBA, MD  
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MBA University of MO St Louis 1998  
MD University of Illinois 1990  
BA Carleton College 1985

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

Francisco J Garriga, MD  
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BS University of Puerto Rico 1966  
MD Washington Univ in St. Louis 1970

Felicitas Z Gatachalian, MD  
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MD University of Santo Tomas 1976

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MD University of Chicago 1970  
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William M Gee, MD  
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MD Washington Univ in St. Louis 1981

Richard A Geisman, MD  
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BS Saint Louis University 1979  
MD Tulane University 1983

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

Ige A George, MBBS  
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MBBS Christian Medical College 1998
Armin Ghobadi, MD  
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Matthew John Gibfried, MD  
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MD University of MO Columbia 2003

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BA Dartmouth College 1968  
PHD Dartmouth College 1973  
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BS Univ of Wisconsin Oshkosh 1979  
PHD Iowa State University 1985

Margo Renee Girardi, MD  
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BS University of Illinois 2001

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Josephine Lee Aguhob Glaser  
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BA Wellesley College 1984  
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BS University of Illinois 1985

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

Anne Carol Goldberg, MD  
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MD University of Maryland 1977  
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David M and Paula L Kipnis Distinguished Professor (primary appointment)  
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MD Washington Univ in St. Louis 1985

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MD University of South Florida 2003  
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BS University of Puerto Rico 2004  
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BS University of Nebraska 1970  
MD Duke University 1974

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Professor of Medicine (primary appointment)  
BA Lehigh University 1979  
MD Pennsylvania State University 1983

Mary Jo Gorman, MD, MBA  
Instructor in Clinical Medicine (primary appointment)  
BA Saint Louis University 1981  
MD Southern Illinois University 1984  
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  
PHD Univ of Wisconsin Madison 1975  
BS Iowa State University 1971

Alfred Greco, MD  
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
BS University of MO St Louis 1971  
MD University of MO Columbia 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
<table>
<thead>
<tr>
<th>Name</th>
<th>Appointment and Education</th>
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<tbody>
<tr>
<td>Aaron Greenspan</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<tr>
<td>Mark H Gregory, MD</td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
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<td>MD University of Vermont 1986</td>
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<tr>
<td>Richard T Griffey Jr, MD</td>
<td>Associate Professor of Emergency Medicine in Medicine (primary appointment)</td>
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<td>MD Norfolk General Hospital 1977</td>
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<tr>
<td>Malachi Griffith, BS1, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>Assistant Professor of Genetics</td>
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<td>Obi Lee Griffith, PHD</td>
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<td>PHD British Columbia Open Univ 2008</td>
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<tr>
<td>Scott D. Groesch, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<tr>
<td>John R Groll, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>BA Illinois Wesleyan University 1984</td>
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<td>Richard Warren Gross, PHD</td>
<td>Professor of Medicine (primary appointment)</td>
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<td>Professor of Chemistry</td>
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<td>Brian Anthony Grus, MD</td>
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<td>MD University of Pennsylvania 1992</td>
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<td>Guner B Gulmen, MD, PHD</td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
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<tr>
<td>Vyjanthanath R. Gunasingham, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>Mark Cobb Gunby, DOST</td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
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<td>DOST Oklahoma St University 1988</td>
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<td>Anjali Gupta, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
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<td>BS Johns Hopkins University 2010</td>
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<td>MD Univ Texas Health Science Ctr 2015</td>
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<td>Maria Gurrieri, MD, DIP</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>MD Catholic University 1989</td>
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<td>Kamal Gursahani, MBA, MD</td>
<td>Associate Professor of Medicine in Emergency Medicine (primary appointment)</td>
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<tr>
<td>Reena Gurung, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
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<td>MD Kathmandu University 2007</td>
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<tr>
<td>Alexandra Gutierrez, MD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
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<td>BS Brown University 1996</td>
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<td>MD Case Western Reserve Univ 2000</td>
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<tr>
<td>Chandra Prakash Gyawali, MD</td>
<td>Professor of Medicine (primary appointment)</td>
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<td>MD University of Calcut 1990</td>
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<td>MBBS University of Calcut 1985</td>
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<tr>
<td>Ramsey R Hachem, MD1, MD</td>
<td>Professor of Medicine (primary appointment)</td>
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<td>Tracey C Marshall - Dr. Elbert P Trulock Distinguished Professor of Medicine</td>
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<td>MD1 University of Texas Southwest 1997</td>
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<td>BA Southern Methodist University 1992</td>
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<tr>
<td>Zachary T Hafez, MA, MD</td>
<td>Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)</td>
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<td>BA Univ of IL -Urbana-Champaign 2006</td>
</tr>
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<td>MA Univ of IL -Urbana-Champaign 2008</td>
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<td>MD University of MO Columbia 2014</td>
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<tr>
<td>Matthew D Hageman, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
</tr>
<tr>
<td></td>
<td>MD Saint Louis University 1996</td>
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<tr>
<td>Jennifer Christine Hagopian</td>
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</tr>
</tbody>
</table>
Adjunct Instructor in Medicine (primary appointment)

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

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

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MD Royal College of Surgeons 2000

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BS University of MO Columbia 1999
PHD Univ of Minnesota Twin Cities 2005

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

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Assistant Professor of Medicine (primary appointment)
MD University of Juba 2004

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

Zahirul Haque
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Annie Chamren Harmon, PHD, MS
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PHD University of Michigan 2016
BA University of Evansville 2004
MS Missouri College 2010

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Assistant Professor of Developmental Biology
BS Brown University 1994
PHD Washington Univ in St. Louis 2002
MD Washington Univ in St. Louis 2002

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PHD State University of New York 2011

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BS Binghamton University 1994
PHD New York U. School of Medicine 2001
MD New York U. School of Medicine 2003

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PHD University of San Francisco 2006
BS Duke University 2001

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PHD Washington Univ in St. Louis 2002
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MD Washington Univ in St. Louis 2002

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MD University of Minnesota 1998

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PHD Washington Univ in St. Louis 2009
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MD University of Kansas 1976

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MD Saint Louis University 1968

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PHD Northeastern University 2008

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BS Nanjing University 1999
MS Edinburgh University 2000
PHD Edinburgh University 2003

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

Stacey L House, PHD, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BS Yale University 1999
PHD University of Cincinnati 2005
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Jacqueline Howard, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN School Not Listed 1995

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

David Thomas Howell
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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)
BA Washington Univ in St. Louis 1995
MD Loyola University Chicago 2000

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

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

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

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)
BS Rutgers University 1987
MD Yale University 1991

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

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MD Louisiana St Univ Hlth Sci 1969  

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BS Rhodes College 1981  
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PHD Washington Univ in St. Louis 2005  
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MBBS Maulana Azad Medical College 1986  

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

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

Tushina Jain, MD  
Instructor in Medicine (primary appointment)  
MD New York U. School of Medicine 2015  

George Jarad, MD  
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MD Damascus U. Medical School 1993  

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MBCHB University of Baghdad 2001  

M PH Saint Louis University 2008  

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Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1994  
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Assistant Professor of Medicine (primary appointment)  
MD Government Medical College 2002  

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MD University of Chicago 2008  
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BS University of Chicago 2000  

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Professor of Medicine (primary appointment)  
PHD Washington Univ in St. Louis 1993  
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BA Washington Univ in St. Louis 1972  

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PHD Vanderbilt University 1997  
BS Michigan State University 1991  

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MS University of Texas Austin 1990  
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MD Washington Univ in St. Louis 2016  

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PHD China Pharmaceutical Univ 1992  

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MD University of Illinois 1967  

Tanner Michael Johanns, MD, PhD  
Instructor in Medicine (primary appointment)  
MD University of Minnesota 2012  
BS University of Saint Thomas 2002  
PHD University of Minnesota 2010  

Eric Keith Johnson, MD  
Assistant Professor of Medicine (primary appointment)  
MD Univ of Wisconsin Madison 1999  

William F Johnson  
Adjunct Instructor in Medicine (primary appointment)  

Reuben D Johnson, MD, BE, BS1
<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Appointment Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>John T. Milliken</td>
<td>Professor of Medicine, Department of Medicine (primary appointment) 2002</td>
</tr>
<tr>
<td>Heather Jones, MD</td>
<td>Assistant Professor of Medicine (Dermatology) (primary appointment)</td>
</tr>
<tr>
<td>Amy M Joseph, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
</tr>
<tr>
<td>Barbara Jost, MS, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
</tr>
<tr>
<td>Karen Ellen Joynt Maddox, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
</tr>
<tr>
<td>Randall S Jotte, MD</td>
<td>Associate Professor of Emergency Medicine in Medicine (primary appointment)</td>
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<tr>
<td>Brad S Kahl, MD</td>
<td>Professor of Medicine (primary appointment)</td>
</tr>
<tr>
<td>Caroline Holleck Kahle, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
</tr>
<tr>
<td>Vinay Gopal Kamat, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
</tr>
<tr>
<td>Sona Sharad Kamat</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
</tr>
<tr>
<td>Deborah Shively Kane, MD</td>
<td>Assistant Professor of Emergency Medicine in Medicine (primary appointment)</td>
</tr>
<tr>
<td>Patricia F Kao, MD, MS2, BE</td>
<td>Associate Professor of Medicine (primary appointment)</td>
</tr>
<tr>
<td>Robert S Karsh, MD</td>
<td>Professor of Clinical Medicine (primary appointment)</td>
</tr>
<tr>
<td>Andrew M. Kates, MD</td>
<td>Professor of Medicine (primary appointment)</td>
</tr>
<tr>
<td>Shashi Krishna Katukoori, MD, MS</td>
<td>Instructor in Medicine (primary appointment)</td>
</tr>
<tr>
<td>David A Katzman, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
</tr>
<tr>
<td>Andrew L. Kau, MD, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
</tr>
<tr>
<td>Charles Kaufman, PHD, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
</tr>
<tr>
<td>Robert L Kaufman, MD</td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
</tr>
<tr>
<td>Elizabeth Jane Keath, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
</tr>
<tr>
<td>Darius Kedainis, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
</tr>
<tr>
<td>Eirini Kefalogianni, PHD</td>
<td>Instructor in Medicine (primary appointment)</td>
</tr>
<tr>
<td>Jesse Wade Keller, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
</tr>
</tbody>
</table>
Daniel P. Kelly, MD  
Adjunct Professor of Medicine (primary appointment)  
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BS University of Illinois 1978

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MD Jefferson Medical College 2005  
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BA Temple University 1979  
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Vice Provost and Assoc Dean of Graduate Medical Education  
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MD Albert Einstein College of Med 1993

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Professor of Clinical Medicine (primary appointment)  
MD University of Arkansas 1960  
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PHD University of North Carolina 2009
BS Knox College 2003
MD University of North Carolina 2011

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Instructor in Clinical Medicine (primary appointment)
BA Texas Tech University 1977
MD Texas Tech University 1982

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

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MD University of Chicago 1998
MD1 University of Chicago 1998
PHD University of Chicago 1995
PHD1 University of Chicago 1995
BA Wittenberg University 1990

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BS Mass Inst of Technology (MIT) 1977
MD Columbia University 1981

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Professor of Emergency Medicine in Medicine (primary appointment)
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Professor of Genetics
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Shunqiang Li, PHD  
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PHD Loyola University Chicago 1998  
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Min Lian, MD, M PH, PHD  
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M PH Fudan University 1999  
PHD Texas Tech University 2006

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BA1 Cornell University 1998  
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MD State Univ of NY Buffalo 1993

Stephen Bradley Lillard, MD  
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MD Univ of Health Sciences KC 1970

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PHD Duke University 2006  
MD National Taiwan University 1999

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BA Harvard University 1990  
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Instructor in Medicine (primary appointment)  
BS University of CA Davis 2007  
MD University of CA Irvine 2011

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MA Reformed Theological Seminary 2001  
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Daniel C Link, MD  
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Professor of Pathology and Immunology  
BS Univ of Wisconsin Milwaukee 1981  
MD Univ of Wisconsin Milwaukee 1985

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MD State University of New York 1977  
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MD National Autonomous U of Mex 1980

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Mary Kathryn Liszewski  
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MD Washington Univ in St. Louis 2013

Adam Daniel Littich, MD  
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MD Saint Louis University 2009

Marina Litvin, MD  
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BA Washington Univ in St. Louis 2003  
MD University of MO Columbia 2008

Jianmei Liu, MD, MS  
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MD Shanghai Medical University 1984  
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Xinping Liu, PHD, MS  
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BS School Not Listed 1986  
PHD Washington Univ in St. Louis 2005  
MS Southeast Missouri St Univers 1999

Lin Liu, BAS, A, PHD  
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BAS Huazhong University of Science 2005  
A University of Texas Southwest 2015  
PHD Huazhong University of Science 2011

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PHD Emory University 2010

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BS University of Michigan 1993  
PHD University of Michigan 2007  
MS Wayne State University 1996
Beverly A Logan-Morrison, MD
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BA Webster University 1976
MD Washington Univ in St. Louis 1982

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

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Professor Emeritus of Psychiatry
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MBBS University of Adelaide 1963

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MA Johns Hopkins University 1971
MD Johns Hopkins University 1973
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BA Washington Univ in St. Louis 1972

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

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PHD University of Cincinnati 1997
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BA Qufu Normal University 1993
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MD Albert Einstein College of Med 2008
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PHD University of Michigan 2005
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PHD Saint Louis University 2001
BA Cornell College 1995

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Assistant Professor of Cell Biology and Physiology
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BS Simon Fraser University 2002

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PHD Washington Univ in St. Louis 1994
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Associate Professor of Clinical Medicine (primary appointment)
MD State University of New York 1989
BA Barnard College 1984

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

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

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

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

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

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

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

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

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

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

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

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

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

Kara H Mayes
Instructor in Clinical Medicine (primary appointment)

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

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

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

Kyle Stephan McCommis, PHD
Assistant Professor of Medicine (primary appointment)
PHD University of MO Columbia 2013
BS University of Kansas 2006

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

BS1 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)
BA Duke University 1991
BS Portland St University 1994
MD Oregon Health Science Univers 1998

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

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

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

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

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

Oliver McKeve, 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)
MD Washington Univ in St. Louis 1989
JD University of California 1974
John T. Milliken Department of Medicine (08/07/18)

BA University of California 1971

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

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)
MD University of Miami 1977
BA University of Missouri 1972

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

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

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

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

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

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

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

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)
MD Washington Univ in St. Louis 1972
BS School Not Listed 1968

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

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

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

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

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

Jason C Mills, PHD, AB, MD, MD1
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
AB Washington Univ in St. Louis 1989
MD University of Pennsylvania 1997
MD1 University of Pennsylvania 1997

Graeme Mindel, MBBC, MS
Instructor in Clinical Medicine (primary appointment)
MBBC 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, PHD, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Molecular Microbiology
Assistant Professor of Pathology and Immunology
PHD University of Oklahoma 2008
MD University of Oklahoma 2010
BS Brigham Young University 2002

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

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

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

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

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MD Case Western Reserve Univ 1972
BA De Paul University 1968

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Associate Professor of Pathology and Immunology
BS University of Puerto Rico 1982
MD University of Puerto Rico 1985

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

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

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PHD Washington Univ in St. Louis 2006
BS Yonsei University 1997
MS Yonsei University 1999

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)

Zachary Andrew Morgan, MD
Instructor in Medicine (primary appointment)
MD Univ of TN - Health Sci Center 2015

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

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

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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)
MD Loyola University Chicago 2008
BS Benedictine University 2004

Jessica Mozersky, PHD, MS
Assistant Professor of Medicine in Medicine (primary appointment)
MD Case Western Reserve Univ 2013

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

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

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

Ivan Nimrod Mugisha, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Illinois Chicago 2015

Faquir Muhammud
Instructor in Clinical Medicine (primary appointment)

Joshua Mutambuki Muia, PHD
Instructor in Medicine (primary appointment)
PHD Western Michigan University 2010
BA University of Nairobi 2003  
Daniel Kast Mullady, MD  
Professor of Medicine (primary appointment)  
MD University of Connecticut 2001  
Monalisa Mullick, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Pediatrics  
MD University of MO Kansas City 1997  
Michael E Mullins, MD  
Associate Professor of Emergency Medicine in Medicine (primary appointment)  
MD Hahnemann University 1987  
Steven Robert Mumm, MS, PHD  
Associate Professor of Medicine (primary appointment)  
BS University of Missouri 1978  
MS University of Missouri 1984  
PHD Saint Louis University 1992  
Amy Musiek, MD  
Associate Professor of Medicine (Dermatology) (primary appointment)  
BS College of William and Mary 1999  
MD Vanderbilt University 2004  
Umadevi Muthyala  
Instructor in Clinical Medicine (primary appointment)  
Elna M Nagasako, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
PHD University of Rochester 2001  
BS Pomona College 1991  
MD Washington Univ in St. Louis 2007  
Jyotirmaya Nanda  
Instructor in Clinical Medicine (primary appointment)  
Nicola Napoli  
Adjunct Research Assistant Professor of Medicine (primary appointment)  
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)  
BA Carleton College 1970  
MD University of Chicago 1978  
Robert F Nease Jr, MA, PHD  
Adjunct Associate Professor of Medicine (primary appointment)  
BS University of California 1980  
MA Stanford University 1981  
PHD Stanford University 1989  
Burton M Needles, MD  
Instructor in Clinical Medicine (primary appointment)  
BS City College 1970  
MD Loyola University Chicago 1974  
Jeanne M Nerbonne, PHD  
Professor of Medicine (primary appointment)  
Alumni Endowed Professor of Molecular Biology and Pharmacology in Developmental Biology  
BS Framingham State College 1974  
PHD Georgetown University 1978  
Rodney D Newberry, MD  
Professor of Medicine (primary appointment)  
BA Washington Univ in St. Louis 1987  
MD Washington Univ in St. Louis 1991  
Elizabeth P. Newberry, PHD  
Assistant Professor of Medicine (primary appointment)  
BA Knox College 1988  
PHD Washington Univ in St. Louis 1995  
Amy C Ney, MD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
BS Mary Washington College 1997  
MD University of Virginia 2001  
Nguyet Minh Nguyen, MD1, BS1, MD  
Assistant Professor of Medicine (primary appointment)  
MD1 Wayne State University 1993  
BS University of Michigan 1989  
BS1 University of Michigan 1989  
MD Wayne State University 1993  
Elizabeth Nieman, MD  
Assistant Professor of Medicine (Dermatology) (primary appointment)  
MD University of MO Columbia 2012  
Jonas Gottfried Noe, MD  
Instructor in Medicine (primary appointment)  
MD Technische Universitat Darmsta 2014  
Joan P Noelker, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD Royal College of Surgeons 2010  
BA University of Virginia 2004  
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  
Assistant Professor of Medicine (primary appointment)  
BS Mindanao State University 2003
MD University of the Philippines 2008

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

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

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

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

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

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

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)
MD University of Minnesota 2007
BS Gustavus Adolphus College 2003

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

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

Eze Okeagu, MA, MD
Instructor in Medicine (primary appointment)
MA University of Chicago 2016
MD University of North Carolina 2016
BS University of Chicago 2016

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

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

Margaret Olsen, MPH, PHD
Professor of Medicine (primary appointment)
Professor of Surgery (Public Health Sciences)
MPH Saint Louis University 2001
PHD University of Pennsylvania 1986
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 Ostlind Jr, MD
Professor of Medicine (primary appointment)
MD University of Utah 1970
BS University of Utah 1966

Theodore Otti, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKOWN 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)
BA University of Tennessee 1992
MD University of Tennessee 1999

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

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

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

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)
BS Duke University 1998
MD Vanderbilt University 2002

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

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

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

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

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)
BS Seoul National University 2001
MD Seoul National University 2006
MS Johns Hopkns University Medic 2007

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

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

Rajiv Nanu Patel, MD
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

MD University of Florida 1985

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

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

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

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

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

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

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

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

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

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

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

Katherine P Ponder, MD
Professor of Medicine (primary appointment)
Professor of Biochemistry and Molecular Biophysics
MD Washington Univ in St. Louis 1983
BS Stanford University 1979
Makhawadee Pongruangporn, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Chiang Mai University 2001

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

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

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

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

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

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

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

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

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

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

Vajravel M Prasad  
Adjunct Instructor in Medicine (primary appointment)

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

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

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

Aaron J Pugh  
Adjunct Instructor in Medicine (primary appointment)

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

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

Usman Qayyum  
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

Srinivasan Raghavan  
Instructor in Clinical Medicine (primary appointment)

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

U. Ramakrishna Rao, MS, PHD
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Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

Ashaanth 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)

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)
BS Tulane University 1962
MD Tulane University 1966

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

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

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MD University of Missouri 1983
BA University of Missouri 1979

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

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Assistant Professor of Cell Biology and Physiology
BS University of Cordoba 1987
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MD Washington Univ in St. Louis 2015  
BS University of CA Davis 2011

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

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

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MD University of MO Columbia 2008  
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BS Illinois State University 1993  
PHD Purdue University 2000

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Professor of Medicine (primary appointment)  
BA University of Illinois 1974  
MD University of Illinois 1979

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MD Saint Louis University 1999  
PHD Saint Louis University 1998  
BS Murray St University 1982

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

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

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Assistant Professor of Medicine (primary appointment)
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Assistant Professor of Pathology and Immunology  
BA Brown University 2000  
MD Washington Univ in St. Louis 2008

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Professor of Medicine (primary appointment)  
MD Saint Louis University 1980

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Professor of Medicine (primary appointment)  
MD University of Zulia 1974

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

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MD University of Cincinnati 1997  
BS University of Cincinnati 1993

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

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MD Indiana University Bloomington 1998  
BA Washington Univ in St. Louis 1994

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

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

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

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Instructor in Medicine (primary appointment)  
MD Dartmouth College 2013

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MD1 University of Florida 1997  
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BS University of Palermo 1998  
BS University of Palermo 1998  
MS University of Padua 1998  
MS University of Padua 1998  
PHD University of Padua 2005

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Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1966

S

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Instructor in Medicine (primary appointment)  
MD Damascus University 2011

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

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

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Professor of Medicine (primary appointment)  
Professor of Biochemistry and Molecular Biophysics  
MD Duke University 1979  
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MD School Not Listed 2000

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MD Washington Univ in St. Louis 2011  
BA Cornell University 2003  
PHD Washington Univ in St. Louis 2009  
BA Cornell University 2003

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Instructor in Clinical Medicine (primary appointment)

Sana Sajid Ur Rehman, MD  
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MD Saint Louis University 1968  
BS St Vincent College 1964  

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MS Fudan University 2007  
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MD University of Louisville 1995  
BA Johns Hopkins University 1991

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MD Saint Louis University 1995  
BA University of CA Berkeley 1987

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MBBCH University of the Witwatersra 1996  
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BS University of the Witwatersra 1993

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PHD University of Pennsylvania 2009  
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MD Washington Univ in St. Louis 1977  
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MD Wayne State University 1982  
BS University of Michigan 1978

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

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BS University of California in RI 2004  
MD Ross University School of Medi 2011

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BA Saint Louis University 1991  
MD Saint Louis University 1996

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Instructor in Clinical Medicine (primary appointment)  
BA Saint Louis University 1991  
MD Saint Louis University 1996

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

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

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MD Brown University 1996  
BS Harvard University 1992

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

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

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Instructor in Clinical Medicine (primary appointment)  
MD Delhi University 1975  
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Assistant Professor of Medicine (primary appointment)  
MD Univ of Nebraska at Kearney 2008

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

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Associate Professor of Medicine (primary appointment)  
BS Duke University 1986  
MD Duke University 1993  
PHD Oxford University 1989

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

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

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

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Instructor in Medicine (primary appointment)  
PHD University of Rochester 2011

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

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

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

**George Souroullas, PHD**  
Instructor in Medicine (primary appointment)  
BA Ohio Wesleyan University 2004  
PHD Baylor University 2010

**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

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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)  
BS Loyola University Chicago 2005  
MD University of Illinois 2010

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

**John Spertus**  
Adjunct Professor of Medicine (primary appointment)

**Michael Spezia**  
Instructor in Clinical Medicine (primary appointment)

**Erik Christian Stabell, MD**  
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BA New College California 1976  
MD School Not Listed 1983

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

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

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

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

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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)  
BA Providence College 1967  
MD Washington Univ in St. Louis 1971

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BA University of Rochester 1967  
MD University of Illinois Chicago 2006  
BA1 Washington Univ in St. Louis 1998
PHD University of Illinois Chicago 2006  
BA Washington Univ in St. Louis 1998

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Associate Professor of Medicine (primary appointment)  
BA Washington Univ in St. Louis 1986  
MD University of CA Los Angeles 1991

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

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

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

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

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

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

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BS St. Joseph's Convent - Trichy 1986  
UNKNOWN Thanjore Medical College 1990

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Instructor in Medicine (primary appointment)  
PHD Heidelberg University 2007  
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Instructor in Medicine (primary appointment)  
MD Regensburg University 2007

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

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Instructor in Clinical Medicine (primary appointment)  
BS University of Alabama 1994  
MD University of AL Birmingham 1999

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Assistant Professor of Medicine (primary appointment)  
MBBS University of Madras 1993

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MD Chiang Mai University 1973  
BS Chiang Mai University 1971

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Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
BA Saint Louis University 2001  
MD University of MO Columbia 2006

Elzbieta Anna Swietlicki, PHD, MS  
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PHD Medical Academy Lodz 1981  
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MD Dow Medical College Karachi 1976

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Associate Professor of Medicine (primary appointment)  
MD University of the Philippines 1990  
BS University of the Philippines 1985

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

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MD Siriraj Medical School 1970

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Instructor in Emergency Medicine in Medicine (primary appointment)  
MD Indiana State University 1995  
BA Indiana State University 1991  
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Instructor in Clinical Medicine (primary appointment)  
MD University of Missouri 1970  
BS School Not Listed 1966

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MD Kerala University 1977

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BS Rockhurst College 1956
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PHD University of Illinois 1990
MD University of Illinois 1990
BS University of Illinois 1982

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MD Mercer University Macon 2009
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BS University of MO Columbia 2005
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BS Univ of Wisconsin Madison 1975
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BA1 Cornell University 1996
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Instructor in Clinical Medicine (primary appointment)
BA Simpson College 1977
MD University of Iowa 1981

**W**

**Harry Lee Wadsworth, MD**
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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**
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MD Washington Univ in St. Louis 1946

**David Wallace, MD**
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MD Saint Louis University 1984

**Laura A Wallace, MD**
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BA Indiana University Indianopoli 2017

**David A Wallis, MD**
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BA Southern Illinois University 1979
MD Southern Illinois University 1982

**Sarah N. Walsh**
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**Matthew John Walter, MD**
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**Richard Coburn Walters, MD**
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BS University of Illinois 1969
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**Lawrence L. Wang, MD, PhD**
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**Jean S Wang, MD, PhD**
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BA Nankai University 2017
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MPH Saint Louis University 2005
MD University of Pittsburgh 1994
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BS Southern Ill Univ Edwardsville 1990
MD University of Illinois Chicago 1994

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MD Washington Univ in St. Louis 2005

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MD Cornell University 1967
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BS University of Illinois 1984

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BA State Univ of NY Binghamton 1978
MD University of Virginia 1985
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Patrick White, MD
Assistant Professor of Medicine (primary appointment)
MD Ohio State University 2007
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MD School Not Listed 1985

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George A Williams III, MA, MD
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BA University of Notre Dame 1967

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MD Duke University 1977

Nancy J Williams, MD
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BA Dartmouth College 1982
MD University of Kansas 1987

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Courses

M25 Medicine 507 Practice of Medicine I
POM I is a large course which spans all three blocks of the first year. It is composed of three content areas: Clinical Skills Patient, Physician, and Society Clinical Knowledge. Each of
these three content areas has two or more sections, each run by a faculty section leader. POM I employs a variety of teaching techniques, instructors and venues. This includes lecture, small group discussions, panel sessions, one-on-one hospital interviews, standardized patient sessions, a patient home visit, and visits to both a primary care office and a city clinic. What are the educational goals of POM I? Students will learn to: 1. Perform a complete history and physical examination with thoroughness, accuracy, sensitivity and compassion. 2. Communicate effectively, efficiently and compassionately with patients, families and other health professionals. 3. Describe and analyze the statistical methodology of clinical studies and apply the results to individuals and groups of patients. 4. Identify and investigate ethical, cultural, socioeconomic and political factors relevant to medical interactions. 5. Examine and analyze personal and professional competencies, limitations and behaviors. How do we accomplish these goals? 1. Learning skills and techniques requires a cycle of steps: preparation, background reading, attempts at skill performance, analysis and reflection on performance, discussion of potential improvements and successive performance of the skill with advancement to a new level of expertise. 2. The focus is on learning skills. You practice each skill, such as interviewing, in a variety of venues and situations of varying complexity. This course is for learning about how to do things that you will use for taking care of patients and families. 3. You work in multiple learning environments. a. Academic environments: small group sessions for discussion, small group practice sessions, peer learning, small group presentations, individual and group writing assignments, and reflections on experiences are the preferred learning locations. b. Clinical environments: inpatient units with faculty and WUSM IV mentors, standardized patient experiences with videotape review, physicians' offices, patients' homes with and without home care professionals, and a city clinic. Credit 198.5 units.

M25 Medicine 604 Physicians, Patients and Society: Clinical Skills
Credit 43 units.

M25 Medicine 605A Infectious Diseases
The Infectious Diseases course teaches both organism-specific and organ-specific approaches to disease caused by microbes. The course expands upon the material presented in the first year concerning bacteria, viruses, fungi and parasites and their involvement in causation of human disease. It explores the complex interaction between microbes and host in the individual patient, and at the broader public health level. Educational methods include lecture, interactive in-class case discussions and review sessions, and student-led clinical case discussions in small groups. Credit 51 units.

M25 Medicine 606A Rheumatology
A major focus of the course is teaching "how to think like a rheumatologist", emphasizing the concept of clinical diagnosis: the history and physical generate a clinical hypothesis, which is supported by laboratory tests. Inflammatory arthropathies (rheumatoid arthritis, spondyloarthopathies, crystalline disorders, and infectious arthritis), classic "autoimmune diseases" (lupus, inflammatory myopathy, and scleroderma), and vasculitic syndromes are presented. A team based learning exercise on rheumatology lab tests gives students a chance to teach one another the details. Two separate sessions with four unknown patients gives students a chance to interview patients and try to make a diagnosis. Credit 17 units.

M25 Medicine 607 Practice of Medicine II
The goal of The Practice of Medicine (POM) course is to provide students with the knowledge, skills and attitudes essential to patient care regardless of specialty. POM II is a continuation of POM I and will continue to address various interfaces between patients, physicians and society and will also introduce the advanced physical exam and approaches to clinical thinking and decision-making. The sections of POM II include Clinical Skills, Case Development, Communication Skills, Ophthalmology, Radiology, Community and Public Health, Ethics and Health Policy Humanities, and Scientific Methods. The learning objectives for each section of POM II emphasize topics and skills used in all fields of medicine, and the majority of the course work will be taught in small groups or through clinical experiences. Credit 89 units.

M25 Medicine 608 Practice of Medicine II: Patient Sessions
Credit 23.5 units.

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

M25 Medicine 612B Pulmonary Diseases
The pulmonary pathophysiology course is designed to familiarize medical students with the pathophysiological mechanisms underlying diseases of the pulmonary system. The course begins with a brief review of pertinent pulmonary physiology and pulmonary function, and then explores how pathologic disorders alter normal lung physiology resulting in the clinical presentation of disease. Major categories of clinical pulmonary diseases discussed include obstructive lung diseases, restrictive lung diseases, pulmonary vascular diseases and pleural disease. Educational methods include lectures, team-based learning and review sessions. Credit 22.5 units.

M25 Medicine 613B Renal & Genitourinary Diseases
This course focuses upon the wide variety of renal diseases. It will begin with a brief review of pertinent renal physiology, and then will explore disorders of fluids/electrolytes (abnormalities in plasma water/solute balance), patterns of acute and chronic kidney injury (including nephritic/nephrotic syndromes and
renal involvement in systemic disorders), and finally the options available when end stage kidney disease is reached (hemodialysis, peritoneal dialysis, transplantation). The course contains a mixture of lecture, small group, team based learning, case-based presentations, and patient presentation. Credit 38 units.

M25 Medicine 614 Dermatology
The dermatology second-year course is designed to provide medical students with a foundation in dermatology that will support future learning and improve diagnostic skills in general medicine and a wide variety of specialties. Medical students will learn how to describe skin lesions and the pathophysiologic basis and clinical characteristics of major dermatologic diseases. Major categories of 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 Gastroint. and Liver Diseases/Nutrition
This course discusses the pathophysiological mechanisms underlying diseases of the gastrointestinal tract including esophagus, stomach, small and large intestines, liver, gall bladder and pancreas. A series of lectures related to nutrition and the impact of nutritional disorders on health and disease are also included. Lectures are supplemented by group seminars that include discussion of clinical case presentations. Credit 32 units.

M25 Medicine 625A Hematology and Oncology
The hematology pathophysiology course exposes students to underlying diseases of the gastrointestinal tract including the interpretation of investigations for endocrine disorders. Emphasis is placed upon relevant clinical history and physical examination as well as the impact of nutritional disorders on health and disease are also included. Lectures are supplemented by group seminars that include discussion of clinical case presentations. Credit 32 units.

M25 Medicine 625A Hematology and Oncology
The hematology pathophysiology course exposes students to underlying diseases of the gastrointestinal tract including the interpretation of investigations for endocrine disorders. Emphasis is placed upon relevant clinical history and physical examination as well as the impact of nutritional disorders on health and disease are also included. Lectures are supplemented by group seminars that include discussion of clinical case presentations. Credit 32 units.

M25 Medicine 635 Preparation for Clinical Medicine
Credit 154 units.

M25 Medicine 707 Practice of Medicine III
Objectives: 1. To review challenges and dilemmas relevant to the practice of clinical medicine. 2. To examine clinical experiences from a variety of perspectives. In this course, themes and topics relevant to students in their clinical stage of training are discussed. Session formats include lecture, panel discussion and/or small group. As students exchange problematic scenarios and questions, the group develops potential solutions and management schemes. "Topics in the past have included: 1) Diversity 3.0 training; 2) Business of medicine; 3) Individualized Learning Objectives in clinical scenario; 4) PSQI; 5) Mock Deposition, Risk Management, and Adverse Patient Outcomes; 6) Compassion Fatigue, Resilience, and Burnout Part 1; 7) Compassion Fatigue, Resilience, and Burnout Part 2; 8) Caring for Incendiary Patients; 9) Diagnostic Error and Transitions of Care; 10) Strategies for Effective Teaching and Mentoring. Attendance at 8 out of 10 POM III sessions is required to pass this course. Students may use two absences for any reason and are recommended to save them for their ACES rotation, Labor & Deliver rotation, or an emergency.

M25 Medicine 710 Medicine Clerkship
The Medicine clerkship provides supervised study of patients in both inpatient and ambulatory settings. For the inpatient rotations, students are assigned as clinical clerks to patients admitted to the general medical teaching services of Barnes-Jewish Hospital and Veterans Administration Medical Center. For the outpatient rotations, students 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 is given regarding core internal medicine topics during the clerkship. A minimum of 12 weeks is required: three consecutive four-week rotations. Credit 462 units.

M25 Medicine 714 Ambulatory Clerkship: Emergency Medicine
The Urgent Care area (UCA) serves as our site for the WUSM III Ambulatory Care Rotation. Three students at a time are assigned to this four-week rotation. Students will spend their first day in an orientation session learning suturing, ECG interpretation and airway management (including intubation skills) in hands-on laboratories. They will also review pelvic examinations and view an education video on domestic violence. On day two, they begin primarily evaluating non-emergent patients in Urgent Care and report directly to an Emergency Medicine attending. There are four hours of conferences per week (8-10 a.m. on Tuesday and Wednesday mornings) — attendance is mandatory. Discussions are currently underway to allow students to participate in helicopter ride-alongs with ARCH Airmedical Services. Students can expect to gain a wide range of skills in evaluating uncomplicated upper respiratory infections, urinary tract infections, sexually transmitted diseases, lacerations, eye problems, rashes, simple extremity trauma — in general, "bread and butter" medical/surgical problems. Students do a case presentation (15 min.) at the close of the block. Credit 154 units.

M25 Medicine 715 Ambulatory Clerkship: Urgent Care
The Urgent Care area (UCA) serves as our site for the WUSM III Ambulatory Care Rotation. Three students at a time are assigned to this four-week rotation. Students will spend their first day in an orientation session learning suturing, ECG interpretation and airway management (including intubation skills) in hands-on laboratories. They will also review pelvic examinations and view an education video on domestic violence. On day two, they begin primarily evaluating non-emergent patients in Urgent Care and report directly to an Emergency Medicine attending. There are four hours of conferences per week (8-10 a.m. on Tuesday and Wednesday mornings) — attendance is mandatory. Discussions are currently underway to allow students to participate in helicopter ride-alongs with ARCH Airmedical Services. Students can expect to gain a wide range of skills in evaluating uncomplicated upper respiratory infections, urinary tract infections, sexually transmitted diseases,
lacerations, eye problems, rashes, simple extremity trauma — in general, "bread and butter" medical/surgical problems. Students do a case presentation (15 min.) at the close of the block. Credit 154 units.

M25 Medicine 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. 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 to recognize and initiate therapy of common dermatologic disorders and become cognizant of uncommon or complicated dermatologic problems that require specialty care. Emphasis will be placed on careful history taking and physical examination. Students will always work under the direction of the resident physician and the attending physicians in the clinic setting. Credit 154 units.

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

M25 Medicine 801 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 each following 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 work-up and management of patients with conditions such as systemic lupus erythematosus, rheumatoid arthritis, scleroderma, vasculitis (ANCA-associated vasculitis, temporal arteritis, etc.), spondyloarthropathies (ankylosing spondylitis, psoriatic arthritis, reactive arthritis, etc.), and gout; there is less exposure to osteoarthritis and regional musculoskeletal problems. By working closely with a faculty member, fellows and medical residents, students become integral and active members of the rheumatology service for inpatient consultations and outpatient clinics at Barnes-Jewish Hospital. An emphasis is placed on the physical examination of joints and the musculoskeletal system, synovial fluid analysis, and interpretation of diagnostic tests and radiographs. Students attend two rheumatology conferences held weekly. A rotation limited to outpatient rheumatology is possible by prior arrangement with the course director.

M25 Medicine 807 Honors Medicine - VA Hospital
The purpose of the Honors Medicine elective (sub-internship) at the VA Medical Center is to develop proficiency in the care of hospitalized patients on an internal medicine ward. Sub-interns will have similar responsibilities as interns, with appropriate supervision by the attending and resident physicians. They have the same on-call/admitting schedules as the interns and participate in the same teaching conferences, but they do not take overnight call. 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. Sub-interns assume primary responsibility for the daily care of their patients, including evaluating each patient daily, presenting on morning rounds entering orders (discussed with and co-signed by the resident), interpreting results of diagnostic studies, calling consultations, collaborating with nurses and social work, organizing post-discharge care, and communicating with patients and their families. Sub-interns also attend weekly small group learning sessions during which they discuss, diagnose, and treat patients using example cases. By the end of the VA Honors Medicine
rotation, sub-interns will be able to independently: - Synthesize and succinctly present a patient's history, exam, diagnostic data, assessment, and plan of care. - Support differential diagnoses and proposed care plans with clinical reasoning and evidence. - Demonstrate how to correctly order diagnostic tests and medications that further patient care. - Analyze complex patient cases during interactive small group learning sessions. Integrate feedback from patients, residents, and attending physicians, and formulate a plan for ongoing improvement as a clinician.

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

M25 Medicine 811 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 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, 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 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 practitioners that sees a large population of cardiac patients and follows them through all aspects of their in-hospital care. Emphasis will be placed on preclinical evaluation 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 resident 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 - VA Hospital
The major purpose of this elective in clinical cardiology at the John Cochran VA Hospital is to improve evaluation and management skills for diagnosis and treatment of important cardiovascular conditions such as coronary artery disease including acute myocardial infarction, congestive heart failure, hypertension, and valvular heart disease. The rotation is designed to be flexible enough to accommodate a wide variety of course objectives but includes the opportunity to participate in 1-3 outpatient clinics per week; 1-4 weeks of inpatient 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. The student will participate in outpatient care in the Barnes-Jewish Hospital and affiliated clinics. Students will attend all clinical teaching rounds and conferences in addition to the basic science and cutaneous histopathology conferences.

M25 Medicine 831 Pediatric Dermatology
This clinical rotation will be available to students interested in dermatology, pediatrics or both. Students will follow the dermatology rotation (M25 830) with an emphasis on pediatric dermatology by attending pediatric dermatology clinics, seeing consults, etc. 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. The primary format of the elective is observation of two first-year students during hospital sessions that span from September-April. During these hospital sessions the first-years perform the H&P, and the fourth-year mentors observe and offer constructive feedback. Each session will have an accompanying H&P written by the first-year student, which is to be thoroughly reviewed and critiqued by the fourth-year mentor. Additional practice sessions are optional and can be individually arranged between teams where the fourth-year mentor can assist the first-year student on personalized skills that are identified by their individualized learning goals. A small number (2-3/year) of in-person sessions will occur with clinical faculty instructors to review teaching methods, assist in giving feedback, and to help the fourth-year mentor to acquire skills necessary for supervision of medical students during internship/residency. The schedule is very flexible, and there are no active clinical responsibilities during December/January to allow time off for interviews.

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

M25 Medicine 836A Treatment of Patients with Inflammatory Bowel Disease
This rotation is intended to provide trainees with exposure and teaching rounds and conferences in addition to the basic science and cutaneous histopathology conferences.

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,
The role of non-invasive methods for measuring bone mass in mineral homeostasis with emphasis on vitamin D and peptide diseases will be studied in the context of derangements and Shriners Hospital for Children. Acquired and heritable bone Division of Bone and Mineral Diseases, and see patients at osteoporosis, Paget’s disease of bone, hyperparathyroidism, of disorders of bone and mineral metabolism, including radiological and pathological manifestations and treatment.M25 Medicine 847 Bone and Mineral Diseases

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

M25 Medicine 847 Bone and Mineral Diseases
The course is designed to acquaint the student with the clinical, radiological and pathological manifestations and treatment of disorders of bone and mineral metabolism, including osteoporosis, Paget’s disease of bone, hyperparathyroidism, osteomalacia, and more rare disorders of bone development and homeostasis. The student will rotate through clinics of the Division of Bone and Mineral Diseases, and see patients at Barnes-Jewish Hospital, Barnes-Jewish West County Hospital and Shriners Hospital for Children. Acquired and heritable bone diseases will be studied in the context of derangements of mineral homeostasis with emphasis on vitamin D and peptide hormone metabolism and skeletal formation and remodeling. The role of non-invasive methods for measuring bone mass in the diagnosis and management of skeletal diseases also will be stressed. Faculty and 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 sees them every day. They work closely with the infectious diseases attending and nurse practitioner, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics and antifungal agents. The role of surgical and medical management is discussed, and the students will interact with surgical staff in understanding the risks and outcomes of these common infections. Two weeks of General Inpatient Infectious Disease are a prerequisite to this course.

M25 Medicine 854 Transplant Infectious 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 this 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 sees them every day. They work closely with the infectious disease fellows, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics, antifungal and antiviral agents in this highly immune suppressed population. A wide distribution of infectious diseases is covered including management of neutropenic fever, invasive fungal infections in the transplant population, acute and chronic infections, infection prophylaxis and monitoring and interactions between immunosuppressive agents and antibiotics.

M25 Medicine 858 Ambulatory Infectious 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, mycobacterial infections, sexually transmitted diseases, and many other infections. Patients seen will have a wide range of acute and chronic infections, and will include indigent and insured patients of both sexes and a wide range of ages. The students will play an important role in the management of these patients and will present their assessments and plans to the supervising attending. They are expected to write clinic notes, read the literature about their patients, and participate in clinical conferences.
M25 Medicine 859 General Inpatient Infectious 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 range 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 Consult Service
Medical Oncology is a complex subspecialty that is undergoing a rapid evolution as a result of new systemic treatment approaches that stem from biological insights into the nature of cancer. During the course of the elective, medical students will be able to interact with attending physicians and patients for bedside teaching and attend tumor boards and lectures focused on the care of patients with solid tumors. At the end of the rotation, the students will appreciate the principles of our approach to cancer patients and should have gained insights into the evaluation and management of patients with newly diagnosed malignancies. The role of surgery, radiation, and systemic treatment will also be an important theme, as well as the conduct of clinical research in this patient population. Students will also learn to care for hospitalized patients suffering from complications from their cancer or from toxicities due to treatments. Oncologic emergencies will be covered. Issues such as palliative care treatment options and end-of-life decision making will be explored as well.

M25 Medicine 862 Honors Medicine - Oncology
The structure and functioning of the Honors Medicine-Oncology 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 an oncology diagnosis as the main reason for admission. Some general medical problems related to their cancer and their therapy will also be seen. All attendings on the service are oncology subspecialists. 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 oncology service.

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 also be involved in direct patient care during this rotation. In addition, the student will meet with the elective instructor one to two times per week 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, radiology rounds Monday through Saturday, 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 BJCH 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 services 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 use when presenting news about prognosis, treatment options, and other information to patients while they also learn about the molecular basis for cancer, the mechanisms of action for our therapies (particularly the newer agents which target specific molecular abnormalities), and the key studies that justify the use of therapies (e.g., randomized studies showing that after surgery, chemotherapy will reduce the risk of recurrence from a particular cancer with a particular regimen). By spending time with clinicians, students will learn how to identify hereditary syndromes, use drugs for symptom relief, and also learn how radiographic and laboratory tests allow oncologists to care for patients.

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

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

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

M25 Medicine 884 Bone Marrow Transplantation and Stem Cell Biology
Intense four-week clinical rotation exposing interested fourth-year medical students to the clinical world of bone marrow transplantation and to the basic science of hematopoiesis, leukemia, 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 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 890A Kidney Transplant
Students participating in this elective will: gain exposure to end-stage renal disease and the treatment options; examine
kidney transplantation as the most valuable option; learn about immunosuppression; and gain exposure to infectious diseases like CMV, BK, and adeno virus that are commonly seen in patients that have had a kidney transplant (and not often seen otherwise).

M25 Medicine 893 Adult Allergy and Clinical Immunology
Students will participate in the outpatient Allergy Clinics located in Barnes-Jewish Hospital Center for Advanced Medicine, Barnes-Jewish West County, and Center for Advanced Medicine South County. Students will participate in allergy skin testing, pulmonary function testing, and drug desensitization. They can attend allergy conferences on Thursday morning. Students have the option to follow a fellow and see inpatient consults at Barnes-Jewish Hospital.

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