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-
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

Lipopid 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
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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
for production of transgenic and knockout mouse models, in situ hybridization and immunohistochemistry.

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

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

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

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

Katherine Ponder, MD
8818 Cancer Science Research Building
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Gene therapy for lysosomal storage diseases. Our laboratory is interested in using gene therapy to treat lysosomal storage diseases such as mucopolysaccharidosis (MPS). We have developed a retroviral vector that can be efficiently delivered to the liver of mice and dogs, and results in expression that is sufficient to reduce many of the clinical manifestations of these genetic diseases. Current studies focus upon assessing the therapeutic effect of gene therapy on sites that are affected in MPS such as the heart, aorta, bones and joints, and developing vectors that might be translated into human patients. In addition, we are evaluating the pathogenesis of disease in MPS, which appears to involve the upregulation of destructive proteases in the aorta and possibly other sites. A better understanding of the pathogenesis of disease might result in additional therapies for MPS.

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

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

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

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

Heart rate variability and clinical outcomes: The student will be learning about HRV methods and will investigate the relationship of HRV and outcomes in one of our datasets. Because we have clinical and demographic data on about 20,000 subjects for whom continuous ECGs from Holter recordings, sleep studies, and ICU studies are available, and also some mouse data, the student will be able to choose a project leading to a publishable result in an area of interest. The HRV Lab has enough computers and software to accommodate the needs of any interested students.

John Turk, MD, PhD
Southwest Tower, 8th Floor
Phone: 314-362-8190

Phospholipid signaling mechanisms in pancreatic islets. Experience in mass spectrometric analysis of complex lipids is available.

H.J. Wedner, MD
5002 Steinberg Pavilion, Barnes-Jewish Hospital, North Campus
Phone: 314-454-7937 or 314-454-7377

1. Asthma care in the inner city: Students will participate in ongoing studies of the delivery of asthma care to inner-city children and adults. The emphasis will be on direct contact between the asthmatic patients and the student, along with an asthma counselor.

2. Biology of pollen and fungal allergens: Our laboratory has been characterizing the important allergenic proteins from molds and pollen. The allergens are identified using skin-test-sensitive individuals, and the proteins are isolated and characterized by a combination of physicochemical 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 Partheninium 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
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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

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Selma and Herman Seldin Professor of Medicine
Chief, Division of Pulmonary and Critical Care Medicine

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Chief, Division of Geriatrics and Nutritional Sciences

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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

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

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

A

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Instructor in Medicine (primary appointment)
MS Banaras Hindu University 1992
PHD Banaras Hindu University 1999

BS Tilka Manjhi Bhagalpur Univ 1988
Valerie Blanc, MS, PHD
Instructor in Medicine (primary appointment)
MS University of Bordeaux 2 1992
PHD University of Bordeaux 2 1996

Melvin S Blanchard, BBA, MD
Professor of Medicine (primary appointment)
Director of Residency Program, Department of Internal Medicine
BBA Trevecca Nazarene College 1987
MD University of Tennessee 1994

Merilda O Blanco-Guzman, MD
Assistant Professor of Medicine (primary appointment)
MD PUCMM FACULTAT DE CIENCIAS DEL 2004

Elizabeth Joy Blaney, MD
Assistant Professor of Medicine (primary appointment)
BA Eastern Michigan University 2003
MD Ohio State University 2007

Morey A Blinder, MD
Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
BS University of Notre Dame 1977
MD Saint Louis University 1981

Donald Allen Blum
Assistant Professor of Clinical Medicine (primary appointment)

Imre Bodo
Adjunct Instructor in Medicine (primary appointment)

Michael Bolger
Instructor in Clinical Medicine (primary appointment)

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

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

Candice Beth Booth, MD
Instructor in Emergency Medicine in Medicine (Pending Dean’s Approval) (primary appointment)
MD University of MO St Louis 2004
BA Univ of IL-Urbana-Champaign 2000

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

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

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

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

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

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

Joseph Branchek, 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 (primary appointment)
MD University of Missouri 1985
BA University of MO Kansas City 1984

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

Audrey Brenot, MS, BS1, PHD
Instructor in Medicine (primary appointment)
MS University of Paris 1997
BS University of Paris 1996
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 (primary appointment)
BA College of William and Mary 2001
PHD Columbia University 2009
BS University of Maryland 2004

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

Steven L Brody, MD
Dorothy R and Hubert C Moog Professor of Pulmonary Diseases
in Medicine (primary appointment)
Professor of Radiology
MD University of Michigan 1980

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

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

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

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

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

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

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

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

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

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

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

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

Alicia Haywood Busso, MD
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)
BA University of MO Kansas City 2004
MD University of MO Kansas City 2004

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

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

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

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  
MD University of MO Columbia 1985

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

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

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

Roque Castillo  
Assistant Professor of Medicine (primary appointment)

Mario Castro, M PH, MD  
Professor of Medicine (primary appointment)  
Alan A and Edith L Wolff Distinguished Professor of Pediatrics  
Professor of Radiology  
BA University of MO Kansas City 1988  
M PH Saint Louis University 1998  
MD University of Missouri 1990

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

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)  
MD Northwestern University 2013  
BA Northwestern University 2009

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

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

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

Siroth Charnond, MD  
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)  
BA Princeton University 1960  
MD Harvard University 1964

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

Lakshmi Ramya Chelapareddy, MBBS  
Instructor in Medicine (primary appointment)  
MBBS Dr. NTR University of Health S 2010

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

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

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)
BS University of Michigan 2003
MD Washington Univ in St. Louis 2012
PHD Washington Univ in St. Louis 2012

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

Alexander Chi Chen, MD
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)
MD Northwestern University Med 2002
BA Northwestern University 2001

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

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

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

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

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

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

Jeffrey Peter Ciaramita
Instructor in Clinical Medicine (primary appointment)

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

Vincenza Cifarelli, 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)
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  
BS University of Siena 1980  
MD University of Siena 1980

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

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

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

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

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)  
MD University of MO Kansas City 1991  
BA University of MO Kansas City 1990

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

Sarah F Cole  
Instructor in Clinical Medicine (primary appointment)

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

Kim David Colter, MS, MD  
Instructor in Clinical Medicine (primary appointment)

MS University of CA Berkeley 1974  
BS MO S&T (formerly UofMO Rolla) 1973  
MD Washington Univ in St. Louis 1978

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

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

Matthew Cooper, PHD  
Instructor in Medicine (primary appointment)  
BS University of Surrey 2004  
PHD University of Surrey 2008

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

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

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

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

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

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  
PHD Northwestern University 2007  
BS Beloit College 2003

Johnetta M Craig, MD, MBA  
Instructor in Clinical Medicine (primary appointment)
John Jeffrey Cras, MS, MD  
Assistant Professor of Medicine (primary appointment)  
BS Loyola College 1994  
MS Georgetown University 1998  
MD Georgetown University 2003

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

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

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)  
MD Harvard University 1965  
BA Harvard University 1960

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

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

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

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

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

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

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

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

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

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

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)
MD Washington Univ in St. Louis 1952
BA Washington Univ in St. Louis 1948

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

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

Thomas Edward Davis
Instructor in Clinical Medicine (primary appointment)

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

Jeffrey M Davis, MD
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)
MD Vanderbilt University 1999

Caroline Elizabeth Day, M PH, MD
Instructor in Clinical Medicine (primary appointment)

M PH San Diego St University 2005
BS University of Colorado Boulder 1990
MD Washington Univ in St. Louis 1995

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)
BA Bowdoin College 1986
MD Loyola University 1995

Ronald David Dean, DOST
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)
BS Southern Illinois U Carbondale 1983
DOST Kansas Cty Univ Med/Bioscience 1987

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)
MD Washington Univ in St. Louis 1997
BA Georgetown University 1992

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)
MD University of Louisville 2012
BS Miami University 2008

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

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

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)
BS University of Wisconsin 2006

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Nicole Marie Ducharme, DOST
Instructor in Clinical Medicine (primary appointment)
BS Muhlenberg College 1998
Carolyn Dufault, PHD  
Instructor in Medicine (primary appointment)  
BS Mount Holyoke College 1997  
PHD Washington Univ in St. Louis 2009

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

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

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

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

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

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

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

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

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

Stilianos Efstratiadis  
Assistant Professor of Clinical Medicine (primary appointment)

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

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

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

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

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

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Instructor in Clinical Medicine (primary appointment)  
UNKNOWN School Not Listed 1982  
MS School Not Listed 1986

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

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

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

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

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Assistant Professor of Medicine (primary appointment)  
MD University of MO Columbia 2000  
BS University of MO Columbia 1996

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

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

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Instructor in Medicine (primary appointment)
BS University of the Philippines 1999
MD University of the Philippines 2004

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

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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

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Instructor in Clinical Medicine (primary appointment)
BA Brown University 1973
MD Brown University 1977

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

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

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

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

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

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

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

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

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

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Instructor in Medicine (primary appointment)
MD Southern Illinois University 2015

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

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

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Professor of Medicine (primary appointment)
MS Free University of Berlin 1991
PHD University of Hamburg 1996

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

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

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

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

Peter Joseph Fletcher
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)

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

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

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Professor of medicine (primary appointment)
MD University of Verona 1994
PHD University of Padova 2004

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

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

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MSN Saint Louis University 2004
BN Webster University 2003
PHD University of MO St Louis 2013

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BS William Woods College 1978

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MD University of MO Columbia 2002
BS Truman State University 1998

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MD Washington Univ in St. Louis 1993
BA Washington Univ in St. Louis 1984

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

Cassandra Delores-Lamar Fritz, MD
Instructor in Medicine (primary appointment)
BS University of Kansas 2010
MD University of Chicago 2015

Brian R. Froelke, MD
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MD University of Cincinnati 2002

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

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Associate Professor of Anesthesiology
MD University of Alabama 2003
BA University of Alabama 1998

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PHD Indiana State University 1984
MD Indiana University School of M 1986

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

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MD University of Mississippi 1986
BS University of AL Birmingham 1980

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BS Washington Univ in St. Louis 1955

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MBA University of MO St Louis 1998
MD University of Illinois 1990
BA Carleton College 1985

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BS Howard University 1983
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Francisco J Garriga, MD
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MD Washington Univ in St. Louis 1970
BS University of Puerto Rico 1966
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BA Cornell College 1977
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MD Tulane University 1983
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MD Iran Univ of Medical Sciences 2001
Matthew John Gibfried, MD
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MD University of MO Columbia 2003
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BA Dartmouth College 1968
MD University of Rochester 1976
PHD Dartmouth College 1973
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BS Univ of Wisconsin Oshkosh 1979
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BS University of Illinois 2001
MD Saint Louis University 2005
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BS University of Illinois 1985
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PHD Washington Univ in St. Louis 1985
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BS University of South Florida 1999
MD University of South Florida 2003
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BS University of Puerto Rico 2004
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MBA Washington Univ in St. Louis 1996
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MD University of Madras 1986

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Professor of Developmental Biology
PHD Univ of Wisconsin Madison 1975
BS Iowa State University 1971

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MD University of MO Columbia 1975
BS University of MO St Louis 1971

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Professor of Pathology and Immunology
MD Wayne State University 1986
BS University of Michigan 1982

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MD University of Vermont 1986
BA University of Vermont 1982

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MD Norfolk General Hospital 1977
M PH Harvard University 2004

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MD University of MO Columbia 1990
BS University of MO St Louis 1994

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

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Instructor in Clinical Medicine (primary appointment)
MD University of Pennsylvania 1992
BS University of Pittsburgh 1988

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Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1969

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

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Instructor in Medicine (primary appointment)
BS Johns Hopkins University 2010
MD Univ Texas Health Science Ctr 2015

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MD Catholic University 1989
DIP School Not Listed 1982
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Associate Professor of Medicine in Emergency Medicine  
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BA Columbia University 1997  
MBA Saint Louis University 2012  
MD University of MO Columbia 2002

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Instructor in Medicine  
MD Kathmandu University 2007

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

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Professor of Medicine  
MBBS University of Calicut 1985  
MD University of Calicut 1990

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Professor of Medicine  
MD University of Texas Southwest 1997  
MD1 University of Texas Southwest 1997  
BA1 Southern Methodist University 1992

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Instructor in Emergency Medicine  
BA Univ of IL -Urbana-Champaign 2006  
MA Univ of IL -Urbana-Champaign 2008  
MD University of MO Columbia 2014

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Instructor in Clinical Medicine  
MD Saint Louis University 1996

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Adjunct Instructor in Medicine  
MD Oregon Health Science Univers 2007

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Instructor in Clinical Medicine  
MBBS RNT Medical College 1968  
MD RNT Medical College 1973

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Assistant Professor of Medicine  
MD Oregon Health Science Univers 2007

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Assistant Professor of Emergency Medicine  
MD Royal College of Surgeons 2000

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

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

Yasir A Hamad, MD  
Assistant Professor of Medicine  
MD University of Juba 2004

Stephanie M Hammer, MD  
Instructor in Clinical Medicine  
MD Chicago St University 1995

Zahirul Haque  
Instructor in Clinical Medicine  
MD University of Michigan 2002  
PHD Washington Univ in St. Louis 2002

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

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

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Assistant Professor of Medicine  
PHD State University of New York 2011

Justin C Hartupee, MD  
Assistant Professor of Medicine  
MD Case Western Reserve Univ 2010

Jeffrey A Haspel, MD, PHD  
Assistant Professor of Medicine  
BS Binghamton University 1994  
MD New York U. School of Medicine 2003  
PHD New York U. School of Medicine 2001

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Instructor in Clinical Medicine  
MD Dow Medical College Karachi 1976

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

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Instructor in Medicine (primary appointment)
MD University of AR Med Sciences 2011

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

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

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

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

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

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

Daniel Robert Herleth
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

MD Freie University 1994

Alonso Heudebert, MD
Instructor in Medicine (primary appointment)
MD University of South Alabama 2016

Christine Lynn Heumann, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Indiana State University 2011

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

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

SueLin Ming Hilbert, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1970
BS Washington Univ in St. Louis 1970
BA Washington Univ in St. Louis 1965

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

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

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

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

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

Timothy Richard Holden, MA, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MA University of Wisconsin 2013
Melissa Louise Hollie
Instructor in Clinical Medicine (primary appointment)

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

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

Neal Holzum
Instructor in Clinical Medicine (primary appointment)

Hitoshi Honda
Adjunct Assistant Professor of Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

Chyi-Song Hsieh, MD, PHD
Associate Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1996
PHD Washington Univ in St. Louis 1996

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

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

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

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

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

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

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

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

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

Benjamin Duane Humphreys, AB, MD, PHD
Professor of Medicine (primary appointment)
Professor of Developmental Biology
AB Harvard University 1991
MD Case Western Reserve Univ 1998
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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)
BS Southeast Missouri St Univers 1978
MD University of Missouri 1982

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

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Adjunct Assistant Professor of Medicine (primary appointment)
MD University of MO Columbia 1976

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HHMI Specialist II
BS University of Houston 1993
PHD University of Texas Southwest 2000

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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

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

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

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

Nhila Jagadeesan, MD
Instructor in Medicine (primary appointment)
BS Indiana University Purdue 2011
MD Washington Univ in St. Louis 2015
BA Indiana University Purdue 2011

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

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

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

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

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

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

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

Anuja Java, MD
Assistant Professor of Medicine (primary appointment)
MD Government Medical College 2002

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BS University of Chicago 2000
MD University of Chicago 2008
PHD University of Chicago 2006
BA University of Chicago 2000

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

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Assistant Professor of Medicine (primary appointment)
BS Michigan State University 1991
PHD Vanderbilt University 1997

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Professor of Medicine (primary appointment)
MD University of Vermont 2000
MS University of Texas Austin 1990
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MD Washington Univ in St. Louis 2016

Xuntian Jiang, PHD
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PHD China Pharmaceutical Univ 1992

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Assistant Professor of Clinical Medicine (primary appointment)
MD University of Illinois 1967

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PHD University of Minnesota 2010
MD University of Minnesota 2012
BS University of Saint Thomas 2002

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MD Univ of Wisconsin Madison 1999

William F Johnson
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BS1 Morehouse College 1996

MD Howard University College of M 2002
BE Georgia Tech 1996

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MD University of Texas Galveston 2011
BS Michigan State University 2000

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DOST Osteopathy 1994

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BS University of Missouri 1993
MS Northwestern University 1995
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BA Princeton University 2000

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BS University of Wisconsin-Madiso 1989
MD Tufts University 1994

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MD University of North Carolina 2006

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MD University of Pennsylvania 1994

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Patricia F Kao, BE, MD, MS2
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BE Princeton University 1994
MD Case Western Reserve Univ 2001
MS2 Ohio State University 1997

Robert S Karsh, MD
Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1951
MD Washington Univ in St. Louis 1952

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

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

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

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

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

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

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

Dalius Kedainis, MD
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MD Kaunas University of Medicine 1998

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BS University of Athens 2002
PHD University of Athens 2007

Timothy Lee Kella, MD
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MD Saint Louis University 1982
BA Saint Louis University 1978

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BS University of Tulsa 2005
MD Johns Hopkins University Medc 2009

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

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MD Washington Univ in St. Louis 1992

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MD University of New Mexico 1975

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BS American University of Beirut 2004
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MPH North Carolina School of the 1988
MD Eastern Virginia Med School 1979

George Kichura, MD
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MD Saint Louis University 1993

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MD University of California 1990
BA University of California 1985
AS Long Beach City College 1976

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BS Saint Louis University 1980
MD Saint Louis University 1984

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

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Assistant Professor of Pathology and Immunology
MD Drexel University 2005
PHD Drexel University 2005
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MD Northwestern University 2009
BS University of Chicago 2005

Brian Kim, MD
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Assistant Professor of Anesthesiology
Assistant Professor of Pathology and Immunology
MD University of Washington 2007
BS Haverford College 2001

Sun-Joong Kim, PHD
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PHD Korea University 2012
BS Hannam University 2004

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MD Seoul National University 2008
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MD Johns Hopkins University Medic 1970
BA Fairfield University 1966

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BS1 Mass Inst of Technology (MIT) 1979
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BA Univ of IL-Urbana-Champaign 2005

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MS University of Ghana Medical Sc 2003

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BA Drew University 1975
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PHD Saint Louis University 1979

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Associate Professor of Medicine (primary appointment)
BS Wayne State University 1967
MD Wayne State University 1971

Kory J. Lavine, MD, PHD
Assistant Professor of Medicine (primary appointment)
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Degree Details</th>
</tr>
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<tbody>
<tr>
<td>John T. Milliken</td>
<td>Department of Medicine</td>
<td></td>
</tr>
<tr>
<td>Steven Jay Lavine, MD</td>
<td>Assistant Professor of Developmental Biology</td>
<td>MD Washington Univ in St. Louis 2008, PHD Washington Univ in St. Louis 2008, BS University of Rochester 2001</td>
</tr>
<tr>
<td>Steven J Lawrence, MS, MD</td>
<td>Associate Professor of Medicine</td>
<td>BS Rose Hulman Institute 1992, MS University of London 2004, MD Washington Univ in St. Louis 1997</td>
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<tr>
<td>Eileen May Lee, MD</td>
<td>Assistant Professor of Medicine</td>
<td>BA University of Iowa 2002, MD University of Iowa 2006</td>
</tr>
<tr>
<td>Caroline Martz Lee, MD, PHD</td>
<td>Instructor in Medicine</td>
<td>MD University of North Carolina 2011, BS Knox College 2003, PHD University of North Carolina 2009</td>
</tr>
<tr>
<td>Daniel John Lenihan, BA1, MD</td>
<td>Professor of Medicine</td>
<td>BA1 University of Tennessee 1984, BA University of Tennessee 1984, MD University of Tenn Memphis 1988</td>
</tr>
<tr>
<td>Deborah J. Lenschow, MD, MD1, PHD1, PHD</td>
<td>Associate Professor of Medicine</td>
<td>BA Wittenberg University 1990, MD University of Chicago 1998, MD1 University of Chicago 1998, PHD1 University of Chicago 1995, PHD University of Chicago 1995</td>
</tr>
<tr>
<td>Marc Stephen Levin, MD</td>
<td>Professor of Medicine</td>
<td>MD Columbia University 1981, BS Mass Inst of Technology (MIT) 1977</td>
</tr>
<tr>
<td>Mark D Levine, MD</td>
<td>Associate Professor of Emergency Medicine in Medicine (primary appointment)</td>
<td>MD New York University 1996, BA Washington Univ in St. Louis 1991</td>
</tr>
<tr>
<td>Lawrence M Lewis, MD, AA</td>
<td>Professor of Emergency Medicine in Medicine (primary appointment)</td>
<td>MD University of Miami 1976, AA University of Florida 1972</td>
</tr>
<tr>
<td>Timothy J Ley, MD</td>
<td>Lewis T and Rosalind B Apple Professor of Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1978, BA Drake University 1974</td>
</tr>
<tr>
<td>Tingting Li, MD</td>
<td>Associate Professor of Medicine</td>
<td>MD State Univ of NY Buffalo 1999</td>
</tr>
<tr>
<td>Li Li, PHD, MD</td>
<td>Assistant Professor of Medicine</td>
<td>MD Shanghai Medical University 1988</td>
</tr>
<tr>
<td>Min Lian, M PH, MD, PHD</td>
<td>Assistant Professor of Medicine</td>
<td>M PH Fudan University 1999, MD Southeast U Medical School 1995, PHD Texas Tech University 2006</td>
</tr>
<tr>
<td>Charles H Lieu, MD</td>
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<td>MD State Univ of NY Buffalo 1993</td>
</tr>
<tr>
<td>Stephen Yuan-Tung Liang, BA1, MD</td>
<td>Assistant Professor of Medicine</td>
<td>BA1 Cornell University 1998, MD University of Maryland 2004, BA Cornell University 1998</td>
</tr>
<tr>
<td>Kian-Huat Lim, MD, PHD</td>
<td>Assistant Professor of Medicine</td>
<td>MD National Taiwan University 1999, PHD Duke University 2006</td>
</tr>
<tr>
<td>Michael Yun Lin, MD</td>
<td>Associate Professor of Medicine</td>
<td>MD University of Iowa 1994, BA Harvard University 1990</td>
</tr>
<tr>
<td>Elizabeth Laura Lin, MD</td>
<td>Instructor in Medicine</td>
<td>MD State Univ of NY Buffalo 1993</td>
</tr>
</tbody>
</table>
Kathryn Jesseca Lindley, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Obstetrics and Gynecology  
MD Emory University 2007  
BS University of Illinois 2003

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Adjunct Associate Professor of Medicine (primary appointment)  
MA Reformed Theological Seminary 2001  
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Professor of Pathology and Immunology  
BS Univ of Wisconsin Milwaukee 1981  
MD Univ of Wisconsin Milwaukee 1985

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

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MD National Autonomous U of Mex 1980

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Assistant Professor of Medicine (primary appointment)  
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Instructor in Clinical Medicine (primary appointment)  
MD Shanghai Medical University 1984  
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Instructor in Medicine (primary appointment)  
MS Southeast Missouri St Univers 1999  
BS School Not Listed 1986  
PHD Washington Univ in St. Louis 2005

Lin Liu, PHD, A, BAS  
Instructor in Medicine (primary appointment)  
PHD Huazhong University of Science 2011  
A University of Texas Southwest 2015  
BAS Huazhong University of Science 2005

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MD McGill University 1983  
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MBA Washington Univ in St. Louis 1997  
BA Hendrix College 1981  
MD University of Arkansas 1985

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

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

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MA Johns Hopkins University 1971
MD Johns Hopkins University 1973

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MD Washington Univ in St. Louis 1990

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

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

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

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
BS North Carolina State Universit 2005
PHD Mass Inst of Technology (MIT) 2011

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

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

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

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

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

Khurram Rehman Mirza, MBBS
Instructor in Medicine (primary appointment)
MBBS King Edward Medical College 2002

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

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

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

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

C. Scott Molden, MD
Instructor in Clinical Medicine (primary appointment)
BA De Paul University 1968
MD Case Western Reserve Univ 1972

Hector D Molina-Vicenty, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
MD University of Puerto Rico 1985
BS University of Puerto Rico 1982
Jennifer Marie Monroy, MD  
Assistant Professor of Medicine (primary appointment)  
BS Incarnate Word College 2003  
MD Univ Texas Health Science Ctr 2008

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

Sung Ho Moon, PHD, MS  
Instructor in Medicine (primary appointment)  
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 Morgensztern, MD  
Associate Professor of Medicine (primary appointment)  
MD FTE Souza Marques 1995

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

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

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

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

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

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

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 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)  
MS University of Missouri 1984  
PHD Saint Louis University 1992  
BS University of Missouri 1978

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

Umadevi Muthyala  
Instructor in Clinical Medicine (primary appointment)

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

Elna M Nagasako, MD, PHD  
Assistant Professor of Medicine (primary appointment)
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)
MD State Univ of NY Buffalo 1993
BA Williams College 1989

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

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

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

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Alumni Endowed Professor of Molecular Biology and Pharmacology in Developmental Biology
BS Framingham State College 1974
PHD Georgetown University 1978

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

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
BS1 University of Michigan 1989

BS 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

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

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

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

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

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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

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UNKNOWN Govt College Sarhodha 1968
UNKNOWN1 Nishtar Medical College Multa 1974

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Assistant Professor of Medicine (primary appointment)
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Instructor in Clinical Medicine (primary appointment)
BA University of Kansas 1972
MD School Not Listed 1977

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

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

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Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)
BA Miami University 1980
MD University of Cincinnati 1984

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

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

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

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

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Associate Professor of Medicine (primary appointment)
BS University of Ibadan 1975
PHD University of Ibadan 1981

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MD Harvard University 1957
BA Harvard University 1953

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

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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

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

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

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

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

Richard E Ostlund 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)
UNKNOWN School Not Listed 1983

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

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

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

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

Russell Kent Pachynski, MD
Assistant Professor of Medicine (primary appointment)
BS Stanford University 1994
MD Univ of Wisconsin Madison 2003
Robert C Packman, MD
Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1953
MD Washington Univ in St. Louis 1956
BS University of Missouri 1954

Ross Ian Palis, MD
Instructor in Clinical Medicine (primary appointment)
BS Duke University 1998
MD Vanderbilt University 2004

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

Anupam S Pande, 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

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

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

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

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

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

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

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

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

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

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

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 Swarhmore College 1973
MD University of California 1978
Julio E Perez, MD  
Professor of Medicine (primary appointment)  
BS University of Puerto Rico 1970  
MD University of Puerto Rico 1973  

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

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

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  
MD University of Florida 1985  
BS University of Florida 1981  

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

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)  
BA University of Illinois 1979  
BS University of Illinois 1979  
MD Harvard University 1984  

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

MD Washington Univ in St. Louis 1988  

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, MBBS  
Adjunct Professor of Medicine (primary appointment)  
MBBS 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)  
MD University of Missouri 1995  
BA University of MO Kansas City 1995  

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

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

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

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

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

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

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

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

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

Vajravel M Prasad
Adjunct Instructor in Medicine (primary appointment)

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

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

Usman Qayyum
Instructor in Clinical Medicine (primary appointment)

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

Patricia M Quinley, MD
Instructor in Clinical Medicine (primary appointment)
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
Associate Professor of Medicine (primary appointment)
BS Mysore University 1975
MS Andhra University 1977
PHD University of Bombay 1987

Srinivasan Dubagunta Rao
Adjunct Instructor in Medicine (primary appointment)

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

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

Keith M Ratcliff
Instructor in Clinical Medicine (primary appointment)

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

Felicia Ratnaraj, MD
Instructor in Medicine (primary appointment)
Lee Ratner, MD, MA, PHD  
Professor of Medicine (primary appointment)  
MD University of MO Kansas City 1979
MA Harvard University 1973
BA Harvard University 1973
PHD Yale University 1979

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

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

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

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)  
MS University of MO Columbia 1981
MD University of MO Columbia 1985
BS Southeast Missouri St Univers 1979

Arhaanth D Reddy  
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

Arvind Rengarajan, MD  
Instructor in Medicine (primary appointment)  
MD Washington Univ in St. Louis 2015
BS University of CA Davis 2011

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

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

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

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

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

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

Nancy Ridenour
Adjunct Professor of Medicine (primary appointment)

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

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

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

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

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

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

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

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Instructor in Clinical Medicine (primary appointment)
MD Tehran University 1988

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MD Washington Univ in St. Louis 1965

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

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

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

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

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

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

Bruce J Roth, MD
Professor of Medicine (primary appointment)
MD Saint Louis University 1988

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

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

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

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

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

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

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

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

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

Brent E Ruoff, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
BS Graceland College 1977
MD Saint Louis University 1981

Michael B Rusche
Adjunct Instructor in Medicine (primary appointment)

Michael Dale Rush, MD
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)
MD University of MO Columbia 1991

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

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

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

S

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

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

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

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

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

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

Sonny Satnam Saggar
Instructor in Clinical Medicine (primary appointment)

Rajan Sah, MD
Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD University of Toronto 1998

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Jean E. Schaffer, MD
Virginia Minnich Distinguished Professor of Medicine (primary appointment)
Professor of Developmental Biology
BA Harvard Radcliff 1982
MD Harvard University 1986

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Rajiv Kumar Sharma
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

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

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

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

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

George Ryan Shuert, MD
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)
MD University of Houston 2006

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Andrei 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)
BS University of Washington 2001
PHD University of Washington 2008
MD University of Washington 2010

John Spertus
Adjunct Professor of Medicine (primary appointment)

Michael Spezia
Instructor in Clinical Medicine (primary appointment)

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

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

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

PHD University of Virginia 1990
BA Barnard College 1962
M ED University of Virginia 1987

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

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

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

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

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

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

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

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

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

Keith Evan Stockerl-Goldstein, MD
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
John T. Milliken Department of Medicine (10/13/18)

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

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

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

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

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

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

Kanagaraj Subramanian, PHD, MS  
Instructor in Medicine (primary appointment)  
PHD Heidelberg University 2007  
MS Heidelberg University 2000

Hani Suleiman, MD  
Instructor in Medicine (primary appointment)  
MD Regensburg University 2007

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

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

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

Rudee Suwannasri, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Chiang Mai University 1971

MD Chiang Mai University 1973

Bridgette B Svaencarek, MD  
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  
Assistant Professor of Medicine (primary appointment)  
PHD Medical Academy Lodz 1981  
MS Medical Academy Lodz 1975

Mohammad Tahir, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Dow Medical College Karachi 1976

Benjamin R Tan, MD  
Associate Professor of Medicine (primary appointment)  
BS University of the Philippines 1985  
MD University of the Philippines 1990

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

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

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

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

Wanda T Terrell, MD  
Associate Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1979  
BA Washington Univ in St. Louis 1975

Larissa Bryka Thackray, PHD  
Assistant Professor of Medicine (primary appointment)  
BS Cornell University 1991  
PHD U of Colorado Health Sci Ctr 2003

George K. Thampy, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Kerala University 1977

Shaukat Thanawalla
Instructor in Clinical Medicine (primary appointment)

**Daniel Leonidas Theodoro, MD**
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Brown University 1997

**J. Allen Thiel, MD**
Associate Professor of Clinical Medicine (primary appointment)
MD Saint Louis University 1960
BS Rockhurst College 1956

**Mark S Thoelke, PhD, MD**
Professor of Medicine (primary appointment)
BS University of Illinois 1982
PHD University of Illinois 1990
MD University of Illinois 1990

**Benjamin S Thomas, MD**
Adjunct Instructor in Medicine (primary appointment)
BS Georgia Tech 2002
MD Mercer University Macon 2009

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

**Alex Anthony Thomas, MD**
Instructor in Medicine (primary appointment)
MD University of Louisville 2015

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

**LinLin Tian, PHD**
Instructor in Emergency Medicine in Medicine (primary appointment)
BS Hebei Medical University 2004
PHD Beijing Institute of Radiation 2009

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

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

**Wael Toama, MD**
Instructor in Medicine (primary appointment)
MD Damascus U. Medical School 2005

**Garry S Tobin, MD**
Professor of Medicine (primary appointment)

**MD Washington Univ in St. Louis 1985**
BS MO S&T (formerly UofMO Rolla) 1981

**Fadi Tohme, MD**
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Anesthesiology
MD St. Joseph University, Beirut 2010

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

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

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

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

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

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

**Elbert P Trulock III, MD**
Rosemary and I Jerome Flance Professor of Pulmonary Medicine in Medicine (primary appointment)
MD Emory University 1978
BS Emory University 1968

**Thomas F Tse, MD**
Instructor in Clinical Medicine (primary appointment)
MD Univ of Nebraska at Omaha 1976
BS University of Nebraska 1972

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

**David J Tucker, MD**
Assistant Professor of Clinical Medicine (primary appointment)
BS University of Notre Dame 1977
MD Saint Louis University 1981

Ann-Marcia C Tukpah, M PH, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
BS Northeastern University 2007
M PH Johns Hopkins University 2011
MD Mount Sinai School of Medicine 2015

Stacey S Tull, M PH, MD
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
BS University of Texas Austin 1993
M PH Duke University 1997
MD Duke University 1997

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

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

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

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

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

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

Justin Marinus Vader, MD
Assistant Professor of Medicine (primary appointment)
MD University of Texas Southwest 2006

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

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

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

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

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

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

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

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

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

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

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

John L Visconti, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
BS University of MO St Louis 1986
MD Univ of Health Sciences KC 1990
Benjamin Allen Voss, BA1, MD  
Instructor in Clinical Medicine (primary appointment)  
BA1 Saint Louis University 2003  
BA Saint Louis University 2003  
MD Creighton University 2007  

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

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

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

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

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

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

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

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

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

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

Richard Coburn Walters, MD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
BS University of Illinois 1969  

MD Washington Univ in St. Louis 1973  

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

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

Xiaowen Wang, MD  
Instructor in Medicine (primary appointment)  
MD Duke University 2016  

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

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

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

Jeffrey Peter Ward, MD, PHD  
Instructor in Medicine (primary appointment)  
MD SUNY - Empire State College 2010  
BS Wilkes University 2002  
PHD SUNY - Empire State College 2010  

David K. Warren, MD, MPH  
Professor of Medicine (primary appointment)  
MD University of Pittsburgh 1994  
MPH Saint Louis University 2005  
BS Pennsylvania State University 1990  

Corinna Hendrell Warren, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Southern IL Univ Edwardsville 1990  
MD University of Illinois Chicago 1994  

Lukas Delbert Wartman, MD  
Assistant Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 2005  
BS Univ of Wisconsin Madison 1998  

Scott P Wasserstrom, MA, MD  
Instructor in Clinical Medicine (primary appointment)  
MA Washington Univ in St. Louis 1995  

MD Washington Univ in St. Louis 1995
BS University of Illinois 1990
MD Washington Univ in St. Louis 1995

Jason Dean Weber, PHD
Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
PHD Saint Louis University 1997
BS Bradley University 1993

H. James Wedner, MD
Phillip & Arleen Korenblat Professor of Allergy and Immunology in Medicine (primary appointment)
MD Cornell University 1967
BS Cornell University 1963

Xiaochao Wei, PHD
Assistant Professor of Medicine (primary appointment)
PHD University of Rochester 2007

Kevin D Weikart, MD
Instructor in Clinical Medicine (primary appointment)
MD American Univ of the Caribbean 1979

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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 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 lectures, team-based learning and review sessions, and student-led clinical case discussions in small groups.

Credit 51 units.

M25 Medicine 606A Rheumatology

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

Credit 17 units.

M25 Medicine 607 Practice of Medicine II

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

Credit 89 units.

M25 Medicine 611B Cardiovascular Disease

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

Credit 30 units.

M25 Medicine 612B Pulmonary Diseases

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

Credit 22.5 units.

M25 Medicine 613B Renal & Genitourinary Diseases

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

Credit 38 units.
M25 Medicine 614 Dermatology
The dermatology second-year course is designed to provide medical students with a foundation in dermatology that will support future learning and improve diagnostic skills in general medicine and a wide variety of specialties. Medical students will learn how to describe skin lesions and the pathophysiologic basis and clinical characteristics of major dermatologic diseases. Major categories of clinical skin diseases and their most prominent constituents will be discussed, including papulosquamous diseases, blistering diseases, infectious diseases, and benign and malignant neoplasms.
Credit 8 units.

M25 Medicine 615A Endocrinology and Metabolism
The endocrine pathophysiology course aims to provide an understanding of the pathophysiology and clinical manifestations of common endocrine disorders. Emphasis is placed upon relevant clinical history and physical examination as well as the interpretation of investigations for endocrine disorders. Basic principles of treatment of endocrine disorders will also be discussed. Lectures are supplemented by organ-specific clinical case discussions.
Credit 31 units.

M25 Medicine 620A 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 common hematologic disorders and hematologic malignancies. The course utilizes lectures, clinical case discussions and practical sessions involving microscopy.
Credit 39 units.

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

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

M25 Medicine 750 Geriatrics Clerkship
The primary goal of this rotation is for students to gain proficiency in the principles of geriatric evaluation and management, including the medical, psychological, social, and functional assessments of older adults. Students are expected to participate in the evaluation of three to five patients per week, in a variety of settings including the outpatient Geriatric Assessment Clinic, inpatient Geriatric Consult service, Parc Provence nursing home, and the Rehabilitation Institute of St. Louis (TRISL). Students will also have the opportunity to participate in hospice and home care visits, interdisciplinary team meetings, and observe an assessment at the 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 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 evaluating each patient daily, 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.), spondyloarthopathies (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 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 consults, 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 will have the opportunity to perform indicated procedures on patients on this service. Students are encouraged to participate in Department of Medicine conferences.

M25 Medicine 814 Clinical Emergency Medicine - Barnes-Jewish Hospital
This rotation offers practical experience in the evaluation and management of acutely sick and injured patients. Students will function as sub-interns, initially evaluating their assigned patients and developing a plan for further diagnostic studies and therapy. They will report to a senior-level resident or an attending physician. The student can expect to get an opportunity to perform a wide variety of procedural skills such as suturing, splinting, peripheral and central venous access, and cardiopulmonary resuscitation. Shifts will be eight hours, and students will rotate between day, evening and night shifts, including weekend shifts, in order to gain maximum exposure to all types of emergencies. A core content of lectures will be provided. Students will gain an understanding of prehospital care by doing a ride-along shift with the St. Louis Fire Department EMS. Students will also 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 physical examination and the interpretation of modern cardiac diagnostic tests including electrocardiograms, echocardiograms and coronary angiograms and their role in clinical decision making.

M25 Medicine 822 Honors Medicine - Cardiology
The structure and functioning of the Honors Medicine-Cardiology elective (sub-internship) is very similar to the general medicine sub-internship (M25 801). The basic purpose is to develop expertise in the care of hospitalized patients in a well-supervised teaching environment. The majority of patients admitted to the service will have a cardiology diagnosis as the main reason for admission. Some general medical problems will also be seen. All attendings on the service are cardiology subspecialists. Cardiology fellows act as the chief 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 intensive care, telemetry, or cardiology consultation rounds; and ECG, stress testing, nuclear imaging, or echocardiographic reading sessions, cardiac catheterization and electrophysiologic procedures. The emphasis will be on improvement of the ability to diagnose and treat cardiovascular disease on the basis of information obtained from a thorough history and physical examination that is integrated with data from appropriate highly targeted laboratory studies in a manner that optimizes patient outcome and minimizes risk and costs.
M25 Medicine 825 Cardiac Arrhythmias and Electrophysiology
This elective provides the student with exposure and teaching in the diagnosis and treatment of complex cardiac rhythm disturbances. Specifically, the student is expected to evaluate patients referred for evaluation and treatment of complex or life-threatening rhythm disturbances, unexplained syncope or sudden cardiac death. Rounds are made daily on hospitalized patients, and students are welcome to observe electrophysiology studies or implantation of pacemakers and defibrillators. This elective also provides an intensive opportunity to learn clinical electrocardiography and the systematic use of anti-arrhythmic drugs. Finally, since patients with chronic, complex rhythm disturbances frequently have organic heart disease, a broad-based exposure to general cardiology is also part of this elective.

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

M25 Medicine 830 Dermatology
The aim of this elective is to provide a guide for students so they are able to appreciate dermatology within the broader perspectives of medicine and biology. Emphasis will be placed on the dermatologic variations encountered in a normal physical examination of the skin, the identification of common skin diseases, dermatologic clues to systemic disease, as well as those dermatologic conditions that are life-threatening. 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 836 Clinical Gastroenterology and Hepatology
The GI Hepatology elective is integrated into a very active inpatient and endoscopy service at Barnes-Jewish Hospital. Students will participate in the evaluation of inpatients with a spectrum of gut and liver disorders, will make patient rounds with the faculty and fellows, and have responsibility for patients on whom consultations have been requested. In addition, they will observe general endoscopic techniques and participate in GI conferences.

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

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

M25 Medicine 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 pathophysicsiology and management of these problems in an environment with limited access to medical aid. The course will involve four days of four-hour lectures each week along with one 1-2 day required overnight camping trip. Requirements to pass this course include completing a presentation on a topic of their choosing that is approved by the course director as well as a skills and written test.

M25 Medicine 843 Medical Toxicology
This rotation offers practical experience in the evaluation and management of the acutely ill poisoned patient. Students will function as sub-interns and either report to the senior resident, fellow, or directly to the toxicology attending. Students will gain familiarity and experience evaluating and treating patients who have intentionally and unintentionally overdosed on medications or illicit drugs, been envenomated (such as by spiders, snakes, or other reptiles), or been exposed to toxic substances or chemicals. Students will also gain experience in administering antidotes and learning to properly decontaminate someone after an ingestion or exposure. There are no overnight or weekend
shifts. Daily activities start in the morning and are generally concluded by the early afternoon. A core content of lectures will be provided. The students will also be assigned small projects during their rotation that will enhance their experience particularly in environmental and occupational toxicology. Opportunities to increase their experience with occupational toxicology also exist during this rotation; those with this interest can ask for further information during their rotation. Students will also have the opportunity to go to the Missouri Poison Center and evaluate patients in the outpatient toxicology clinic. Students desiring a letter of recommendation from one of the toxicology attendings (who are also Emergency Medicine and Internal Medicine attendings) or interested in Emergency Medicine or Medical Toxicology should take this elective. Also, students considering other specialties such as Pediatrics or Internal Medicine should consider this rotation as they will be responsible for evaluating these patients as part of their inpatient or outpatient practice. Please be advised that there is a limit of days off while on this rotation during interview season; otherwise, students should arrange to take the elective at a different time during the year. Days off should be requested from the course coordinator at least two weeks prior to the beginning of the rotation for scheduling purposes. Students should receive a course guide just prior to their rotation. However if they do not, they can page the toxicology pager at 314-672-0284 to determine when and where to meet for rounds.

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

M25 Medicine 847 Bone and Mineral Diseases
The course is designed to acquaint the student with the clinical, radiological and pathological manifestations and treatment of disorders of bone and mineral metabolism, including osteoporosis, Paget's disease of bone, hyperparathyroidism, osteomalacia, and more rare disorders of bone development and homeostasis. The student will rotate through clinics of the Division of Bone and Mineral Diseases, and see patients at Barnes-Jewish Hospital, Barnes-Jewish West County Hospital and Shriners Hospital for Children. Acquired and heritable bone diseases will be studied in the context of derangements of mineral homeostasis with emphasis on vitamin D and peptide hormone metabolism and skeletal formation and remodeling. The role of non-invasive methods for measuring bone mass in the diagnosis and management of skeletal disease will also be stressed. Faculty and medical students will present interesting cases for discussion or the students can present a pertinent topic related to bone metabolism they have researched during their rotation.

M25 Medicine 853 Bone and Joint Infectious Disease
Consult
Study of infectious diseases of the bones and joints, including infections in both native and prosthetic joints. The elective is designed to teach students the fundamentals of evaluating clinical orthopedic infections and formulating plans for workup and therapy. Students see consultations in infectious diseases in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with the infectious diseases attending and nurse practitioner, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics and antifungal agents. The role of surgical and medical management is discussed, and the students will interact with surgical staff in understanding the risks and outcomes of these common infections. Two weeks of General 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 these complex and interesting patients and formulating plans for workup and therapy. Students see consultations in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with infectious disease fellows, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics, antifungal and antiviral agents in this highly immune 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 consultations. The elective is designed to teach students the fundamentals of evaluating clinical problems in infection and formulating plans for workup and therapy. Students see consultations in infectious diseases in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with medical residents and infectious disease fellows, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics, antifungal and antiviral agents. A wide distribution of infectious diseases is covered including community-acquired acute and chronic infections, opportunistic infections in HIV-infected patients, hospital-acquired infections, and basic infection control practices. This is a four-week rotation. Two-week rotations are allowed, but must be done in conjunction with two weeks of Transplant Infectious Disease or Bone and Joint Infectious Disease.

M25 Medicine 861 Oncology - Inpatient 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 bed side 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 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 BJH 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 physical, social, 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 overload 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.