John T. Milliken
Department of Medicine

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

Website: https://internalmedicine.wustl.edu

Research

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

M25 Medicine 900

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

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

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

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

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

The biology of cell-cell interactions and communication in bone via gap junctions and cell adhesion molecules. Function of connexins and cadherins in transcriptional control of osteoblast differentiation, osteoclastogenesis, and mechanotransduction. Modulation of mesenchymal lineage allocation and osteogenic differentiation by cadherins and beta-catenin signaling.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Marc S. Levin, MD, and Deborah C. Rubin, MD
922/924 Clinical Sciences Research Building
Phone: 314-362-8933, 314-362-8935

Students will be members of a collaborative research team headed by Drs. Levin and Rubin (Department of Medicine) investigating the mechanisms underlying the intestinal adaptive response that occurs to compensate for loss of functional small intestine. A second project focuses on epithelial-mesenchymal interactions and their role in regulating gut epithelial proliferation carcinogenesis and the normal and cancer stem cell niche. Specific mechanisms under investigation include the function of an immediate early gene Tis7 on gut adaptation following resection or injury. The role of myofibroblast protein epimorphin in regulating cell proliferation and colon carcinogenesis is being explored. The student will have the opportunity to learn basic molecular biology and physiology as it relates to small intestinal growth and function. Examples of techniques that are used in these studies include small animal surgery and colitis and cancer models (mice and rats), molecular biological techniques including PCR, Northern blotting, vector construction
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  
Phone: 314-362-8286

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

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

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

**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 records have already been analyzed by us so there is a large amount of heart rate variability and heart rate pattern data available. There are also subsets of the CHS and of another study (EPHESUS) who are known to have died suddenly, and we have developed a matched control group in order to examine ECG-based differences in those who died suddenly. We also have electronic sleep studies at two time points for about 300 of the CHS Holter participants who also participated in the Sleep Heart Health Study. We have analyzed an additional ~1500 sleep studies from CHS participants who did
not have Holter recordings. Thus, there is also an opportunity in the CHS dataset for studies on the relationship of heart rate variability and changes in heart rate variability over time and a huge number of clinical and demographic factors among the elderly. We also have data on the relationship of Holter-based HRV and sleep apnea patterns to the development of atrial fibrillation post-cardiac surgery and data from a study of treatment of depression in treatment-resistant depressed post-MI patients, a study of sickle cell patients, and one of heart rate variability and echo parameters in elderly African Americans. Currently we are also analyzing HRV in both premature infants as they mature and also HRV as a predictor of response to treatment in babies in the NICU and PICU, using stored 24-hour bedside ECGs.

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

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

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

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

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

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

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

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

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

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

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

Lynn A. Cornelius, MD
Winfred A. and Emma R. Showman Professor of Dermatology in Medicine
Chief, Division of Dermatology

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

A

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John T. Milliken Department of Medicine (09/26/18)

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**Clifford Allen Birge, MD**  
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BA Amherst College 1956  
MD Washington Univ in St. Louis 1961

**Thomas M Birkenmeier, MD**  
Assistant Professor of Medicine (primary appointment)  
BA Washington Univ in St. Louis 1978  
MD Washington Univ in St. Louis 1982

**Kumar Sanjeev Bishnupuri, PHD, MS**  
Instructor in Medicine (primary appointment)  
BS Tilka Manji Bhagalpur Univ 1988  
PHD Banaras Hindu University 1999

**Valerie Blanc, PHD, MS**  
Instructor in Medicine (primary appointment)  
PHD University of Bordeaux 2 1996  
MS University of Bordeaux 2 1992

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

**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**
Instructor in Medicine (primary appointment)
MD Temple University 2014
BS Washington Univ in St. Louis 2010

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

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

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
(secondary appointment)
BS Georgetown University 1986
MPH University of South Florida 2009
MD Medical College of Virginia 1991

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

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

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

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

Audrey Brenot, BS1, MS, PHD
Instructor in Medicine (primary appointment)
BS1 University of Paris 1995
BS University of Paris 1996
MS University of Paris 1997
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
(secondary 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)
PHD Washington Univ in St. Louis 1989
MD Washington Univ in St. Louis 1990
BS Univ of Wisconsin Madison 1982

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

Jeffrey Wade Brown, MD, PHD
Instructor in Medicine (primary appointment)
MD Boston University 2012
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)
MD University of Minnesota 1968
BA Washington Univ in St. Louis 1964
BS University of Minnesota 1968

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

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

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

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

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

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)

BS Emory University 2003
MS Harvard University 2006
PHD University of North Carolina 2014

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

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

C

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

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

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  
(secondary 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)  
BA University of Texas Austin 1992  
MD UniformedServUofHealthSciences 1996

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

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

Roque Castillo  
Assitant Professor of Medicine (primary appointment)

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

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)  
PHD AIX-MARSEILLE UNIVERSITY 2013  
BS University of Westminster 2009

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

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

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

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

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

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

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Associate Professor of Cell Biology and Physiology
BS Fudan University 1991
PHD University of Utah 1998

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

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Professor of Medicine (primary appointment)
MD National Taiwan University 1993
PHD Johns Hopkins University Med 1999

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

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

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

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

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

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

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

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

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

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Instructor in Medicine (primary appointment)

MD Washington Univ in St. Louis 2016

Rebecca Joy Chibnall, AA, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
AA Washington Univ in St. Louis 2007
MD University of California 2012
BS Washington Univ in St. Louis 2007

Phillip Ruben Chisholm
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

Jeffrey Peter Ciaramita
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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)  
BA University of Missouri 1973  
MD Saint Louis University 1977

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

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

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

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

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

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)  
PHD University of Surrey 2008  
BS University of Surrey 2004

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

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 1977  
BA Saint Louis University 1974

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

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

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

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

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

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

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

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

Sharon Cresci, MD
Associate Professor of Medicine (primary appointment)
MD New York University 1986
BS State Univ of NY Binghamton 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
BA Northwestern University 1962
MD Northwestern University Med 1965

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, MS, MD
Assistant Professor of Medicine (primary appointment)

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

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 Brandeis University 2009

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

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

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)
BA Princeton University 1989
MD Washington Univ in St. Louis 1999

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 College 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)  
BA University of Texas Austin 2008  
MA Harvard University 2018  
MD Baylor College of Medicine 2013

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

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

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

Thomas Edward Davis  
Instructor in Clinical Medicine (primary appointment)

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

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

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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)  
DOST Kansas Cty Univ Med/Bioscience 1987  
BS Southern Illinois U Carbondale 1983

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

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

Jennifer A. Delaney, MD  
Instructor in 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)  
BS Creighton University 2000  
MD Creighton University 2004

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

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

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

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

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

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

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

Michael D DeVita, MD
Assistant Professor of Medicine (primary appointment)
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
BA Columbia College 1985
MD Harvard University 1994

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

Brian K Dieckgraefe, PHD, MD
Associate Professor of Medicine (primary appointment)
PHD Washington Univ in St. Louis 1987
BA University of Kansas 1982
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, MD, PHD
Virginia E and Sam J Golman Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
Professor of Pediatrics
MD University of Rochester 1980
BA Williams College 1973
PHD University of Rochester 1980

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

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

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

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

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

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

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Philip and Sima K Needleman Professor of Medicine (primary appointment)
MD Medical University of Sth Car 1981

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

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)
DOST Univ of Health Sciences KC 2003
<table>
<thead>
<tr>
<th>Name</th>
<th>Title &amp; Institution</th>
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<tbody>
<tr>
<td>Carolyn Dufault, PhD</td>
<td>Instructor in Medicine (primary appointment)</td>
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<tr>
<td></td>
<td>Assistant Dean for Education and Technology</td>
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<tr>
<td></td>
<td>BS Mount Holyoke College 1997</td>
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<tr>
<td></td>
<td>PHD Washington Univ in St. Louis 2009</td>
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<tr>
<td>Maria C Dumadag-Sabio, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<tr>
<td></td>
<td>BA University of Missouri 1988</td>
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<tr>
<td>Edward Harry DuMontier</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<tr>
<td>William C Dunagan, MS, MD</td>
<td>Professor of Medicine (primary appointment)</td>
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<td>Kirsten F Dunn, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>Julia Passyn Dunn, MS, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>Michael Joseph Durkin, M PH1, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>Tiffany Biason Dy, MD</td>
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<td>William Charles Eades Jr, BEE</td>
<td>Associate Professor of Medicine (primary appointment)</td>
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<tr>
<td>Dayna S Early, MD</td>
<td>Professor of Medicine (primary appointment)</td>
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<td>Royal J Eaton, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>Charmaine E. Edwards, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>John R. Edwards, PHD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
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<td>Stilianos Efstratiadis</td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
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<td>Russell E Eggebrecht, MD</td>
<td>Associate Professor of Clinical Medicine (primary appointment)</td>
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<td>Ali A Ehsani, MD</td>
<td>Professor of Medicine (primary appointment)</td>
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<td>Zamir Eidelman, MD</td>
<td>Associate Professor of Clinical Medicine (primary appointment)</td>
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<td>Seth A Eisen, MD, MS</td>
<td>Professor of Medicine (primary appointment)</td>
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<td>Linda G Eissenberg, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>Lamice R. El-Kholy, MS, UNKNOWN</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>John Ellena, MD</td>
<td>Associate Professor of Clinical Medicine (primary appointment)</td>
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<tr>
<td>Charlene Ann Ellsworth, PHD, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>Amged Eltahir, AB1, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>MD University of Khartoum 1985</td>
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<tr>
<td>Michelle Lynn Elvington, PHD</td>
<td>Instructor in Medicine (primary appointment)</td>
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<td>PHD University of South Carolina 2011</td>
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<tr>
<td>Jill Elizabeth Elwing, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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</table>
BS University of MO Columbia 1996
MD University of MO Columbia 2000

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)
MD University of the Philippines 2004
BS University of the Philippines 1999

Amir Esmaeeli, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2015

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

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

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

Gregory A Ewald, MD
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BS University of Illinois 1985
MD Northwestern University 1989

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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
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MD Louisiana St University 2014

Todd A Fehniger, PHD, MD
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PHD Ohio State University 2000
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BS State Univ of NY Buffalo 1994

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MD University of Parma 2004
PHD University of Parma 2014

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BS University of Arkansas 1973
MD University of Arkansas 1975

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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
MS University of Illinois 1996
BS University of Illinois 1994

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

BS University of Kansas 2010

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

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

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

Suzanne Furesz
Instructor in Clinical Medicine (primary appointment)

Gary Gaddis, PHD, MD
Professor of Emergency Medicine in Medicine (Pending Executive Faculty Approval) (primary appointment)
PHD Indiana State University 1984
MD Indiana University School of M 1986

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

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

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

Joseph Lee Galkowski, DOST
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)
BS University of MO Columbia 1990
DOST Kansas Cty Univ Med/Bioscience 1994

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

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

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

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

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

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

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

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

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

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

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

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

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

Thomas J Girard, PHD
Assistant Professor of Medicine (primary appointment)

BS Univ of Wisconsin Oshkosh 1979
PHD Iowa State University 1985

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

Gardar T Gislason
Adjunct Instructor in Medicine (primary appointment)

Josephine Lee Aghubob Glaser
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

Felicia Ismay Gomez, PHD
Instructor in Medicine (primary appointment)
PHD George Washington University 2015

Maria Cristina Gonzalez-Mayda, MD
Assistant Professor of Medicine (primary appointment)
BS University of Puerto Rico 2004
MD University of Puerto Rico 2008
Daniel M Goodenberger, MD  
Professor of Medicine (primary appointment)  
BS University of Nebraska 1970  
MD Duke University 1974  

John Gorcsan III, MD  
Professor of Medicine (primary appointment)  
MD Pennsylvania State University 1983  
BA Lehigh University 1979  

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

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

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

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

Alfred Greco, MD  
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MD University of MO Columbia 1975  
BS University of MO St Louis 1971  

Jonathan M Green, MD  
Professor of Medicine (primary appointment)  
Professor of Pathology and Immunology  
MD Wayne State University 1986  
BS University of Michigan 1982  

Aaron Greenspan  
Instructor in Clinical Medicine (primary appointment)  

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

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

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

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

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

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

Richard Warren Gross, MD, PHD, AB  
Professor of Medicine (primary appointment)  
Professor of Chemistry  
Professor of Developmental Biology  
MD New York University 1976  
PHD Washington Univ in St. Louis 1982  
AB Columbia University 1972  

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

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

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

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

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

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

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

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

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

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

Ramsey R Hachem, BA1, MD1, MD  
Professor of Medicine (primary appointment)  
BA1 Southern Methodist University 1992  
MD1 University of Texas Southwest 1997  
MD University of Texas Southwest 1997

Zachary T Hafez, MA, MD  
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)  
BA Univ of IL - Urbana-Champaign 2006  
MA Univ of IL - Urbana-Champaign 2008  
MD University of MO Columbia 2014

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

Jennifer Christine Hagopian  
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

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

Yasir A Hamad, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of Juba 2004

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

Zahirul Haque  
Instructor in Clinical Medicine (primary appointment)

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

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

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

Justin C Hartupee, MD  
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MD Case Western Reserve Univ 2010

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

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

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

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

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

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

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

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

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

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

Daniel Robert Herleth
Instructor in Clinical Medicine (primary appointment)

Catherine Hermann, M ENG, MD
Instructor in Clinical Medicine (primary appointment)
BA Truman State University 1992
M ENG Univ of Southern Mississippi 1993
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)
BS Princeton University 2002
MD Washington Univ in St. Louis 2006

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)
MD Washington Univ in St. Louis 1970
BA Duke University 1966

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

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

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

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

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

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

J. Langston Hoffman, MD
Instructor in Clinical Medicine (primary appointment)
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
BS Northwestern University 2006
MD University of Minnesota 2010

**Melissa Louise Hollie**  
Instructor in Clinical Medicine (primary appointment)

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

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

**Neal Holzum**  
Instructor in Clinical Medicine (primary appointment)

**Hitoshi Honda**  
Adjunct Assistant Professor of Medicine (primary appointment)

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

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

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

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

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

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

**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)  
BS Kansas State University 1974  
MD Kansas State University 1978

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

**Fong Fu Hsu, MS, PHD**  
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)  
MS Beijing Medical University 2000  
BS School Not Listed 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)  
BA Wabash College 1971
MD Washington Univ in St. Louis 1975

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

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

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

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

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

Mark Albert Hurt, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
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

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

Eva Susanne Istvan, PHD
Assistant Professor of Medicine (primary appointment)
HHMI Specialist II
PHD University of Texas Southwest 2000
BS University of Houston 1993

Carolyn M Jachna, MD
Assistant Professor of Medicine (primary appointment)
BS Washington Univ in St. Louis 1993
MD Northwestern University Med 1998

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

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

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

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

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

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

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

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

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

Sina Jasim, M PH, MBCHB
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)
Anuja Java, MD  
Assistant Professor of Medicine (primary appointment)  
MD Government Medical College 2002

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

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

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

Maya Jerath, PHD, MS, MD  
Professor of Medicine (primary appointment)  
PHD University of Texas Austin 1992  
MS University of Texas Austin 1990  
MD University of Vermont 2000

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

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

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

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

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

William F Johnson  
Adjunct Instructor in Medicine (primary appointment)

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

BS1 Morehouse College 1996

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

Gregory D Jones, DOST  
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)  
DOST Osteopathy 1994

Grace Dizon-Retiro Jones  
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)

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

Barbara Jost, MD, MS  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1997  
BS University of Missouri 1993  
MS Northwestern University 1995

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

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

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

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

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

Sona Sharad Kamat  
Instructor in Clinical Medicine (primary appointment)

Deborah Shipley Kane, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
BA University of MO Kansas City 2006
MD University of MO Kansas City 2006
Patricia F Kao, MD, MS2, BE
Associate Professor of Medicine (primary appointment)
MD Case Western Reserve Univ 2001
MS2 Ohio State University 1997
BE Princeton University 1994
Robert S Karsh, MD
Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1952
BA Washington Univ in St. Louis 1951
Andrew M. Kates, MD
Professor of Medicine (primary appointment)
BS Tufts University 1990
MD Tufts University 1994
Shashi Krishna Katukoori, MD, MS
Instructor in Medicine (primary appointment)
MD Saint Louis University 2011
BS Kakatiya Medical College 2004
MS Eastern Kentucky University 2010
David A Katzman, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1991
BA Brown University 1986
Andrew L. Kau, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 2006
BS Emory University 1998
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
PHD University of Chicago 2003
BA Washington Univ in St. Louis 1997
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
Instructor in Clinical Medicine (primary appointment)
MD Kaunas University of Medicine 1998
Eirini Kefalogianni, PHD
Instructor in Medicine (primary appointment)
PHD University of Athens 2007
BS University of Athens 2002
Timothy Lee Kella, MD
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)
BA Saint Louis University 1978
MD Saint Louis University 1982
Jesse Wade Keller, MD
Instructor in Medicine (primary appointment)
BS University of Tulsa 2005
MD Johns Hopkns University Medic 2009
Daniel P Kelly, MD
Adjunct Professor of Medicine (primary appointment)
BS University of Illinois 1978
MD University of Illinois 1982
Charlotte J Kennedy, MD, PHD
Assistant Professor of Clinical Medicine (primary appointment)
BA Agnes Scott College 1984
MD Washington Univ in St. Louis 1992
PHD Washington Univ in St. Louis 1992
Joseph L Kenzora, MD
Associate Professor of Medicine (primary appointment)
MD University of New Mexico 1975
Martin Hurley Kerrigan, MD
Assistant Professor of Medicine (primary appointment)
MD Jefferson Medical College 2005
BS Saint Josephs University 2001
Ahmed Sultan Khan
Adjunct Instructor in Medicine (primary appointment)
Charbel Chafic Khoury, MD
Assistant Professor of Medicine (primary appointment)
BS American University of Beirut 2004
MD American University of Beirut 2008
Thomas B Kibby, MD, MPH
Instructor in Emergency Medicine in Medicine (primary appointment)
MD Eastern Virginia Med School 1979
MPH North Carolina School of the 1988
George Kichura, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1993
Daniel Jason Kichura, MD
Instructor in Medicine (primary appointment)
BA Indiana University 2008
MD Israel Institute of Technology 2012
Mary Kiehl, MD, AS
Assistant Professor of Clinical Medicine (primary appointment)
BA University of California 1985
MD University of California 1990
AS Long Beach City College 1976
Kenneth Richard Kilian, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1984
BS Saint Louis University 1980

Charles John Kilo, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1991
BA University of Kansas 1987

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

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

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

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

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

Helen Young Kim-James, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
MD Washington Univ in St. Louis 2001
BA Southern Methodist University 1997

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

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

Tinna P King
Instructor in Clinical Medicine (primary appointment)

BA University of Missouri 1988

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

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

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

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

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

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

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

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

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

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

Eric Knoche, MD
Assistant Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 2006
Bulletin 2018-19  
John T. Milliken Department of Medicine (09/26/18)

BS Davidson College 2001
Kathryn Knoop, PHD
Instructor in Medicine (primary appointment)  
BS Drake University 2006  
PHD Emory University 2011
Carolyn Koenig, MD
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 2002
Adam C Koertner
Instructor in Clinical Emergency Medicine in Medicine (primary appointment)
Nita Kohli, M PH, MD
Assistant Professor of Medicine (Dermatology) (Pending Executive Faculty Approval) (primary appointment)  
BA University of New Orleans 2000  
M PH Louisiana St University 2004  
BS University of New Orleans 2000  
MD Louisiana St University 2004
Ismail Kola, UNKNOWN, PHD
Adjunct Professor of Medicine (primary appointment)  
UNKNOWN Rhodes College 1982  
BS Rhodes College 1982  
PHD School Not Listed 1985
Marin H Kollef, MD
Professor of Medicine (primary appointment)  
MD University of Rochester 1983  
BS US Military Academy 1979
Hermann M Koller, MD
Instructor in Medicine (primary appointment)  
MD Washington Univ in St. Louis 1978  
BS Stanford University 1974
Sri Devi Kolli, MBBS
Instructor in Clinical Medicine (primary appointment)  
MBBS Guntur Medical College 1989
Mary E. Koly, MD
Instructor in Clinical Medicine (primary appointment)  
BA University of MO Kansas City 1995  
MD University of MO Kansas City 1995
Kevin L Konzen, MD
Assistant Professor of Clinical Medicine (primary appointment)  
MD University of Illinois 1984  
BA University of Notre Dame 1980
Robert G Kopitsky, MD
Assistant Professor of Clinical Medicine (primary appointment)  
BS Emory University 1978  
MD Duke University 1982
Kevin Marc Korenblat, MD
Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 1996
Phillip E Korenblat, MD
Professor of Clinical Medicine (primary appointment)  
BA University of Arkansas 1957  
MD University of Arkansas 1960
Stuart A Kornfeld, MD
David C and Betty Farrell Professor of Medicine (primary appointment)  
Professor of Biochemistry and Molecular Biophysics  
BA Dartmouth College 1958  
MD Washington Univ in St. Louis 1962
Alex H Kosloff, MD
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1980  
BS Washington Univ in St. Louis 1975
Sandor J Kovacs, MS, PHD, MD
Professor of Medicine (primary appointment)  
Adjunct Professor of Physics  
Professor of Biomedical Engineering  
Professor of Cell Biology and Physiology  
BS Cornell University 1969  
MS California Institute Technolo 1972  
PHD California Institute Technolo 1977  
MD University of Miami 1979
Attila Kovacs, MD
Associate Professor of Medicine (primary appointment)  
BS School Not Listed 1981  
MD Semmelweis University of Med 1985
Aldi T Kraja, PHD1, PHD
Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
PHD1 University of Illinois 1999  
PHD University of Tirana 1993
Mark S Krasnoff, MD
Instructor in Clinical Medicine (primary appointment)  
BA Amherst College 1987  
MD Johns Hopkns University Medic 1991
Melissa Renae Kroll, MD
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)  
MD University of Iowa 2013  
BA Dordt College 2009
Ronald J Krone, MD
Professor of Medicine (primary appointment)  
John E Simon Scholar in Medicine  
MD University of Chicago 1966  
BS University of Michigan 1962
Elaine Susan Krul, PHD
Adjunct Associate Professor of Medicine (primary appointment)  
BS McGill University 1977  
PHD McGill University 1982
Thomas Kuciejczyk-Kernan, MD  
Instructor in Clinical Medicine (primary appointment)  
BS University of Illinois 1982  
MD Saint Louis University 1986

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

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

Anthony Kulczycki Jr, MD  
Associate Professor of Medicine (primary appointment)  
BS University of Georgia 1992  
MD Emory University 1992

David I. Kuperman, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Arkansas 2001  
BA Hendrix College 1997

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

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

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

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

PHD University of New Mexico 2007

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

Roop Lal, MS  
Instructor in Clinical Medicine (primary appointment)  
BS Osmania Medical College 1971

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Marc Stephen Levin, MD**
Professor of Medicine (primary appointment)
BS Massachusetts Institute of Technology (MIT) 1977
MD Columbia University 1981

**Mark D Levine, MD**
Associate Professor of Emergency Medicine in Medicine (primary appointment)
MD New York University 1996
BA Washington Univ in St. Louis 1991

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

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

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

**Shunqiang Li, PHD**
Assistant Professor of Medicine (primary appointment)
MD University of Iowa 1998
BA1 Cornell University 1998
MD Shanghai Medical University 1998
MD1 Shanghai Medical University 1998

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

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

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

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

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

**Michael Yun Lin, MD**
Associate Professor of Medicine (primary appointment)
MD University of Iowa 1994
BA Harvard University 1990

**Elizabeth Laura Lin, MD**
Instructor in Medicine (primary appointment)
Kathryn Jesseca Lindley, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Obstetrics and Gynecology  
BS University of Illinois 2003  
MD Emory University 2007

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

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

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

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

David B Liss  
Assistant Professor of Emergency Medicine in Medicine  
(Pending Executive Faculty Approval) (primary appointment)

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

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

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

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

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

Xinpeng Liu, MS, PHD  
Instructor in Medicine (primary appointment)  
MS Southeast Missouri St Univers 1999  
BS School Not Listed 1986

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

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

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

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

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

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

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

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

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

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

Kenneth M Ludmerer, MA, MD
Professor of Medicine (primary appointment)
Mabel Dorn-Reeder Distinguished Professor of the History of Medicine
MA Johns Hopkins University 1971
MD Johns Hopkins University 1973
BA Harvard University 1968
Lauren Michelle Ludwig Lee, MD
Instructor in Clinical Medicine (primary appointment)
MD University of MO Kansas City 2008

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

Barbara A Lutey, MD, MLS
Assistant Professor of Medicine (primary appointment)
MD University of Iowa 1999
BA Indiana University Bloomington 1982
MLS Indiana University Bloomington 1983

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

Christopher Raymond Lynch
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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

Jambunathan Mahadevan
Instructor in Clinical Medicine (primary appointment)

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

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

Mohamed Mahjoub, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
BS Simon Fraser University 2002
PHD Simon Fraser University 2007

Robert John Mahoney, MD
Associate Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1997
BA Princeton University 1993

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

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

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

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

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

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

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

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

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

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

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

Ann G Martin, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
BS University of Notre Dame 1977

MD Case Western Reserve Univ 1981

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

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

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

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

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

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

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

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

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

Kara H Mayes
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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

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

Oliver McKee, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
MD School Not Listed 1981
Scott Micek, MD  
Adjunct Instructor in Medicine (primary appointment)  
MD University of Iowa 1999  

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

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

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

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

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

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

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

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

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

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

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

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

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Assistant Professor of Molecular Microbiology  
Assistant Professor of Pathology and Immunology  
BS Brigham Young University 2002  
MD University of Oklahoma 2010  
PHD University of Oklahoma 2008  

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MBBS King Edward Medical College 2002  

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BE John Hopkins University 2000  
MD University of Texas Southwest 2008  

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Associate Professor of Genetics  
BS University of Skopje - Macedon 1990  
PHD Wageningen University 2001  
MS University of Skopje - Macedon 1994  

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

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Instructor in Orthopaedic Surgery  
MD Isfahan U of Medical Sciences 2004  

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BA De Paul University 1968  
MD Case Western Reserve Univ 1972  

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Associate Professor of Medicine (primary appointment)  
Associate Professor of Pathology and Immunology  
MD University of Puerto Rico 1985  
BS University of Puerto Rico 1982
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Assistant Professor of Medicine (primary appointment)
BS Incarnate Word College 2003
MD Univ Texas Health Science Ctr 2008

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BA Washington Univ in St. Louis 1950
MD University of Pittsburgh 1954
BS University of Missouri 1952

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

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

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Instructor in Clinical Medicine (primary appointment)

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

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

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MS Saint Louis University 1989
MD University of Missouri 1993
BA Benedictine College 1987

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MBBS University of London 1970

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BS Benedictine University 2004
MD Loyola University Chicago 2008

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MS University of Pennsylvania 2017
BS University of Toronto 1998
PHD University College London 2010

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BA University of Missouri 1981

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MD University of Wisconsin-Madison 2013
PHD Univ of Wisconsin Madison 2011

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MD Medical College of Wisconsin 2010

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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

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Professor of Medicine (primary appointment)
MD University of Connecticut 2001

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

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

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

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

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Instructor in Clinical Medicine (primary appointment)

Muithi Mwanthi
Assistant Professor of Medicine (Dermatology) (PEFA) (primary appointment)

Eina M Nagasako, PHD, MD
Assistant Professor of Medicine (primary appointment)
PHD University of Rochester 2001
BS Pomona College 1991
MD Washington Univ in St. Louis 2007

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Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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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

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

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

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

Jonas Gottfried Noe, MD
Instructor in Medicine (primary appointment)
MD Technische Universitat Darmsta 2014

Joan P Noelker, MD
Assistant Professor of Medicine (primary appointment)
BA University of Virginia 2004
MD Royal College of Surgeons 2010

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)
BS Mindanao State University 2003
MD University of the Philippines 2008

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Margaret Olsen, PHD, MPH
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

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

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

BS Saint Louis University 2004

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

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

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

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

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

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

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

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

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

Van 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)
MD Washington Univ in St. Louis 1956
BA Washington Univ in St. Louis 1953
BS University of Missouri 1954

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

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

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

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

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

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

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

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

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

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MD Saba University School of Med 2001

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Instructor in Clinical Medicine (primary appointment)

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Instructor in Medicine (primary appointment)
MD BJ Medical College 1980

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

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

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Instructor in Clinical Medicine (primary appointment)
MS School Not Listed 1969
UNKNOWN1 School Not Listed 1969

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

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

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

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Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 2013

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

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

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

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

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Professor of Radiology
MD Washington Univ in St. Louis 1990
BS Georgetown University 1986

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

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

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

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

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

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

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

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
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MD Cornell University 1979

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

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

Katherine P Ponder, MD
Assistant Professor of 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

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BS John Carroll University 1967
MD Saint Louis University 1971

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

Daniel E Potts, MD
Associate Professor of Clinical Medicine (primary appointment)
BS Beaufort Technical College 1968
MD Washington Univ in St. Louis 1972
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Primary Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>William G Powderly, MD</td>
<td>J. William Campbell Professor of Medicine</td>
<td>MD National University of Ireland 1979</td>
</tr>
<tr>
<td>John A Powell, MD</td>
<td>Assistant Professor of Clinical Medicine</td>
<td>BS University of Notre Dame 1967, MD University of Michigan 1971</td>
</tr>
<tr>
<td>Jennifer Lynn Powers, PHD</td>
<td>Assistant Professor of Medicine</td>
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</tr>
<tr>
<td>Lawrence Prablek, MD</td>
<td>Instructor in Clinical Medicine</td>
<td>BS Southern Methodist University 1984, MD University of Texas Southwest 1988</td>
</tr>
<tr>
<td>Diana A Prablek, MD</td>
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<td>BA Texas Christian University 1984, MD Southwestern University 1988</td>
</tr>
<tr>
<td>Simeon Prager, MD</td>
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</tr>
<tr>
<td>Vajravel M Prasad</td>
<td>Adjunct Instructor in Medicine</td>
<td></td>
</tr>
<tr>
<td>Christopher William Prater, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
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</tr>
<tr>
<td>David J Prelutsky, MD</td>
<td>Associate Professor of Clinical Medicine</td>
<td>MD Saint Louis University 1979, BA Northwestern University 1975</td>
</tr>
<tr>
<td>Rachel M. Presti, MD, PHD</td>
<td>Associate Professor of Medicine</td>
<td>BA Scripps College 1990, MD Washington Univ in St. Louis 2001, PHD Washington Univ in St. Louis 2001</td>
</tr>
<tr>
<td>Aaron J Pugh</td>
<td>Adjunct Instructor in Medicine</td>
<td></td>
</tr>
<tr>
<td>Edward Puro, PhD, MS, MD</td>
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<td>BS University of Toronto 1962, PHD University of Toronto 1970, MS University of Toronto 1966, MD Washington Univ in St. Louis 1975</td>
</tr>
<tr>
<td>Iskra Pusic, MD</td>
<td>Assistant Professor of Medicine</td>
<td></td>
</tr>
<tr>
<td>Usman Qayyum</td>
<td>Instructor in Clinical Medicine</td>
<td></td>
</tr>
<tr>
<td>Nishath Quader, MD</td>
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<td>BS University of Illinois Chicago 2002, MD Northwestern University 2007</td>
</tr>
<tr>
<td>Patricia M Quinley, MD</td>
<td>Instructor in Clinical Medicine</td>
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</tr>
<tr>
<td>Abdul H Qureshi, MS</td>
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<td>BS School Not Listed 1992</td>
</tr>
<tr>
<td>Radha Devi Radhakrishna Pillai, MBBS</td>
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<td>MBBS Jawaharial Inst of Med Educ 2006</td>
</tr>
<tr>
<td>Srinivasan Raghavan</td>
<td>Instructor in Clinical Medicine</td>
<td></td>
</tr>
<tr>
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<td>Professor of Medicine (primary appointment)</td>
<td>MBBS Kilpauk Medical College 1990</td>
</tr>
<tr>
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<td>MS Andhra University 1977, BS Mysore University 1975, PHD University of Bombay 1987</td>
</tr>
<tr>
<td>Srinivasan Dubagunta Rao</td>
<td>Adjunct Instructor in Medicine</td>
<td></td>
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<tr>
<td>Antonella Luisa Rastelli, MD</td>
<td>Associate Professor of Medicine</td>
<td></td>
</tr>
<tr>
<td>Keith M Ratcliff</td>
<td>Instructor in Clinical Medicine</td>
<td></td>
</tr>
<tr>
<td>Gary A Ratkin, MD</td>
<td>Associate Professor of Clinical Medicine</td>
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</tr>
</tbody>
</table>
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MA Harvard University 1973
PHD Yale University 1979
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PHD Washington Univ in St. Louis 1986

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PHD University of Michigan 2011  
BS Washington Univ in St. Louis 2004

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MBBS Grant Medical College 1999

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MD Saint Louis University 1968  
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BS Nankai University 2003  
MS Fudan University 2007  
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PHD Oklahoma St University 2002  
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MD Washington Univ in St. Louis 1974  
BA Northwestern University 1970

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MD University of Jordan 1988

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Instructor in Clinical Medicine (primary appointment)  
MD University of Louisville 1995  
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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 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 lecture, interactive in-class case discussions and review sessions, and student-led clinical case discussions in small groups. Credit 51 units.

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

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

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

M25 Medicine 612B Pulmonary Diseases
The pulmonary pathophysiology course is designed to familiarize medical students with the pathophysiologic 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 after 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 hematopoietic pathophysiology course exposes students to common hematologic disorders and hematologic malignancies.
The course utilizes lectures, clinical case discussions and practical sessions involving microscopy.
Credit 39 units.

M25 Medicine 707 Practice of Medicine III
Objectives: 1. To review challenges and dilemmas relevant to the practice of clinical medicine. 2. To examine clinical experiences from a variety of perspectives. In this course, themes and topics relevant to students in their clinical stage of training are discussed. Session formats include lecture, panel discussion and/or small group. As students exchange problematic scenarios and questions, the group develops potential solutions and management schemes. Topics in the past have included: 1) Diversity, 3.0 training; 2) Business of medicine; 3) Individualized Learning Objectives in clinical scenario; 4) PSQI; 5) Mock Deposition, Risk Management, and Adverse Patient Outcomes; 6) Compassion Fatigue, Resilience, and Burnout Part 1; 7) Compassion Fatigue, Resilience, and Burnout Part 2; 8) Caring for Incendiary Patients; 9) Diagnostic Error and Transitions of Care; 10) Strategies for Effective Teaching and Mentoring. Attendance at 8 out of 10 POM III sessions is required to pass this course. Students may use two absences for any reason and are recommended to save them for their ACES rotation, Labor & Deliver rotation, or an emergency.
Credit 39 units.

M25 Medicine 710 Medicine Clerkship
The Medicine clerkship provides supervised study of patients in both inpatient and ambulatory settings. For the inpatient rotations, students are assigned as clinical clerks to patients admitted to the general medical teaching services of Barnes-Jewish Hospital and Veterans Administration Medical Center. For the outpatient rotations, students 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 will participate in the rotation. They 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 each admitting day. Sub-interns are not required to spend call nights in the hospital. Except in emergencies, sub-interns are the first individuals to evaluate patients admitted to medical service teams. A diagnostic and therapeutic approach to the patient is planned in consultation with the resident. Sub-interns assume primary responsibility for the daily care of their patients, under the supervision of resident and attending physicians. This includes evaluation on daily rounds, scheduling and obtaining results of diagnostic studies, planning therapy, making arrangements for care after discharge and communicating with patients and their families. Sub-interns attend the same conferences as the house staff.

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

M25 Medicine 807 Honors Medicine - VA Hospital
The purpose of the Honors Medicine elective (sub-internship) at the VA Medical Center is to develop proficiency in the care of hospitalized patients on an internal medicine ward. Sub-interns will have similar responsibilities as interns, with appropriate supervision by the attending and resident physicians. They have the same on-call/admitting schedules as the interns and participate in the same teaching conferences, but they do not take overnight call. Sub-interns should admit at least two patients per call day, and they should be the first to evaluate the patients admitted to the medical service, except in emergencies. A diagnostic and therapeutic approach to evaluating each patient is planned in consultation with the resident. Sub-interns assume primary responsibility for the daily care of their patients, including evaluating each patient daily, presenting on morning rounds entering orders (discussed with and co-signed by the resident), interpreting results of diagnostic studies, calling consents, 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 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 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 electrophysiology 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 common 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 (chromoendoscopy, ERCP); IBD / colorectal surgery; pathology.

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

M25 Medicine 842 Introduction To Wilderness Medicine
The purpose of this course is to introduce medical students to common medical problems both emergent and nonemergent seen in various wilderness settings. After taking this course the student should have a basic understanding of the pathophysiology and management of these problems in an environment with limited access to medical aid. The course will involve four days of four-hour lectures each week along with one 1-2 day required overnight camping trip. Requirements to pass this course include completing a presentation on a topic of their choosing that is approved by the course director as well as a skills and written test.

M25 Medicine 843 Medical Toxicology
This rotation offers practical experience in the evaluation and management of the acutely ill poisoned patient. Students will function as sub-interns and either report to the senior resident, fellow, or directly to the toxicology attending. Students will gain familiarity and experience evaluating and treating patients who have intentionally or 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 or outpatient practice. Please be advised that there is a limit of 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 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
invasive fungal infections in the transplant population, acute diseases is covered including management of neutropenic fever, immune suppressed population. A wide distribution of infectious conferences. They attend teaching rounds and conferences read the literature about their patients and participate in clinical infectious disease fellows, follow their own patients and play Jewish Hospital under the supervision of a faculty member therapy. Students see consultations in every part of Barnes- and interesting patients 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 848 Transplant Infectious Disease Consult
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 infectious diseases in these complex and interesting patients and formulating plans for workup and therapy. Students will participate in the care of 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 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. Students are expected to read the literature about their patients and play an important role in the management of these patients and present their assessments and plans to the supervising attending. They are expected to write clinic notes, read the literature about their patients, and participate in clinical conferences.

M25 Medicine 859 General Inpatient Infectious Disease
Study of patients with infectious diseases, including inpatient care of HIV-infected patients and general infectious disease consults. The elective is designed to teach students the fundamentals of evaluating clinical problems in infection and formulating plans for workup and therapy. Students will participate in infections 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 and antifungal agents. A wide distribution of infectious diseases is covered including community-acquired acute and chronic infections, opportunistic infections in HIV-infected patients, 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 BJC Hospice Team and the St. Louis Children's Hospital Palliative Care Service. While in the hospital, students will be responsible for seeing patients upon initial assessment as well as delivering follow-up care with the team. Patients will be seen for both end-of-life care as well as symptom management. Students will learn to assess and treat refractory symptoms and participate in complicated advanced care planning. Students will attend interdisciplinary team meetings, and may participate in conversations about goals of care and coping with bad news. They may also make home visits with hospice care providers, if desired. Emphasis will be placed on observing and understanding the psychosocial and spiritual needs of the patients, as well as the impact of the burden on caregivers. In addition, students will be expected to lead biweekly presentations/group discussions on selected aspects of Palliative Medicine with the BJH Palliative Care team.

**M25 Medicine 870 Endocrinology, Diabetes, and Metabolism**
In general, the four-week rotation will be divided into two weeks of general endocrinology and two weeks of diabetes. Students taking this elective will perform consultations with fellows and faculty on the inpatient 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 overview by an experienced electrocardiographer. There will also be didactic sessions covering infarction, ventricular hypertrophy, heart block, arrhythmias, and aberrant conduction.

M25 Medicine 879 Pulmonary Clinic for the Underserved
Clinical setting: Outpatient clinic dedicated to providing pulmonary specialty care to patients who are predominantly uninsured or who rely upon public assistance such as Medicaid. Student role: Students independently interview and examine patients and present findings to the attending, tests and imaging are reviewed, and provider and attending develop plan. Common problems/diseases: Asthma, COPD, sarcoidosis, lung cancer, and obstructive sleep apnea are commonly seen. Also, patients are referred for evaluation of abnormal x-rays and for symptoms such as dyspnea. Primary learning objectives: to understand and practice important history and exam skills in pulmonary medicine: symptoms, smoking history, work and environmental exposures, and important pulmonary physical exam findings; to understand the basics of pulmonary function tests, chest imaging, and methods for tissue sampling; 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.