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

Website: https://internalmedicine.wustl.edu

Research

For information about Primary Care Summer Preceptorships (p. 5), please refer to the information at the bottom of this section.

M25 Medicine 900

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

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

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

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

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

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

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

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

Thomas M. DeFer, MD
6604 Wohl Hospital
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Special Projects in Medical Education. Through special arrangement with and approval by the course master, fourth-
year students will participate in special projects in medical education. Typical projects will require approximately four weeks to complete. These four weeks can occur consecutively (preferred) or be spread out somewhat as needed. Medical education projects should be aimed at improving the curriculum, student experience, and/or administration of the Internal Medicine Clerkship or the Sub-Internship. Interested students should contact the course master via phone or email to discuss the proposed project. Those who are interested but would like guidance in designing a project should also contact the course master. This is open only to Washington University School of Medicine students.

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

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

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

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

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

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

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

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

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

Stacey House, MD, PhD
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or Lisa Hayes
Phone: 314-362-4362
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Emergency Medicine Clinical Research. Emergency medicine clinical research involves the gamut of research designs ranging from retrospective cohort studies ("The Use of B Hydroxy Butyrate Point-of-Care Testing in Diabetic Ketoacidosis"), to prospective clinical trials ("Biomarkers in Traumatic Brain Injury"), to the evaluation of health care systems and Emergency Department processes ("Effects of a Triage Process Conversion on the Triage of High Risk Presentations"), to analyzing health policy issues ("Rate of Follow-up to a Primary Care Clinic and Subsequent Emergency Department Utilization among an Urban ED Population"). Students will learn the basic clinical research designs and will be able to articulate the benefits and drawbacks of each. They will be involved in hypothesis generation and study design for projects that are at that stage. For ongoing
projects, they will learn about the informed consent process and be involved in screening for study subjects and subject selection and enrollment. They will be allowed to consent for studies judged to be minimal risk. Students will be taught important rules regarding data acquisition and entry, particularly as it relates to standards that have been set forth in the medical literature. They will learn about bias and inter-rater reliability. Students will participate in data entry, data analysis, and subsequent abstract/ manuscript preparation based on their level of interest and ability for time commitment. Students will meet weekly with one of the course masters to discuss study progress and to identify any roadblocks to study completion. These meetings will also serve as a forum for one-on-one education of the student regarding study methodology, ethical issues in research, and various resources available to the clinical researcher at Washington University.

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

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

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

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

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

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

Jack Ladenson, PhD
Phone: 314-454-8436

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

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

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

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

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

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

We investigate the differentiation of epithelial stem cells in the upper GI tract. We study how genes regulate differentiation in mouse models and in vitro in tissue culture, and we correlate our findings with human tissue specimens. Specific projects include: (1) understanding how inflammation leads to aberrant differentiation (metaplasia), which is a precursor for cancer; (2) elucidating how master regulatory transcription factors like Xbp1 and Mist1 coordinate the massive cytoskeletal and organelar expansion of specialized secretory cells as they differentiate from stem cells; and (3) understanding mechanisms regulating how differentiated cells can be reprogrammed into stem cells in GI organs like stomach and pancreas.
Stanley Misler, MD, PhD
815 Yalem Building, Barnes-Jewish Hospital
Phone: 314-454-7719
Stimulus-secretion coupling in endocrine cells (β-islet cells and adrenal chromaffin cells) examined using single-cell assays of secretion (capacitance measurements, amperometry).

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

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

Richard E. Ostlund, MD
8804 Wohl Hospital
Phone: 314-362-8286
Our laboratory focuses on the prevention and treatment of coronary heart disease by studying cholesterol absorption, detoxification and elimination from the body. Direct patient studies that use new stable isotopic cholesterol tracers and mass spectrometry techniques complement in vitro work on the biochemistry of cholesterol transport in cultured cells.

Russell Pachynski, MD
BJC Institute of Health, 7th Floor
Phone: 314-286-2341
My lab focuses on several aspects of tumor immunology and translational immunotherapy. We utilize mouse tumor models, human tissues and samples, and advanced molecular and immunologic techniques to study leukocyte trafficking in the setting of tumor development and progression. We also have projects focusing on developing novel immunotherapeutics aimed at augmenting the recruitment of beneficial leukocyte subsets into the tumor microenvironment in order to suppress tumor growth. We are utilizing several approaches such as nanoparticles, fusion proteins and viruses.

Katherine Ponder, MD
8818 Cancer Science Research Building
Phone: 314-362-5188
Email: kponder@wustl.edu
Gene Therapy for Lysosomal Storage Diseases. Our laboratory is interested in using gene therapy to treat lysosomal storage diseases such as mucopolysaccharidosis (MPS). We have developed a retroviral vector that can be efficiently delivered to the liver of mice and dogs, and results in expression that is sufficient to reduce many of the clinical manifestations of these genetic diseases. Current studies focus upon assessing the therapeutic effect of gene therapy on sites that are affected in MPS such as the heart, aorta, bones and joints, and developing vectors that might be translated into human patients. In addition, we are evaluating the pathogenesis of disease in MPS, which appears to involve the upregulation of destructive proteases in the aorta and possibly other sites. A better understanding of the pathogenesis of disease might result in additional therapies for MPS.

Clay F. Semenkovich, MD
Southwest Tower, 8th Floor
Phone: 314-362-4454
Fatty acid metabolism and its role in atherosclerosis, diabetes, hypertension and obesity. The modulation of respiratory uncoupling for the treatment of aging, obesity and vascular disease.

Phyllis K. Stein, PhD
Northwest Tower, Room 13116
Phone: 314-286-1350
Email: pstein@wustl.edu
Clinical Significance of Heart Rate Variability and ECG-Derived Waveform Parameters Obtained from Continuous Ambulatory Monitoring. This elective affords the opportunity to perform research in heart rate variability or in other measurements, like QT variability or T-wave alternans that can be derived from continuous ECG monitoring from Holter recordings or polysomnography recordings in the sleep lab. One area of active research is the identification of heart rate patterns associated with obstructive and central sleep apneas and hypopneas and the relationship of previously unappreciated cycling heart rate patterns and outcomes. Data are also available from mice. Many possible projects are available using our many large existing datasets, using the thousands of stored studies in the sleep lab, or involving de novo data collection in a clinical or animal population and in infants. Also, many possible directions for this research are available from applying traditional and nonlinear HRV to different populations, developing methods to quantify ultradian heart rate variability patterns, to developing novel ECG analysis techniques, etc. Also, we are involved with the Cardiovascular Health Study (CHS), a large population-based longitudinal study of risk factors for heart disease and stroke among community-dwelling people >65 years old. There is a
subset of this population who had Holter recordings (~1400 at baseline, ~800 of the same people five years later, and ~370 minority subjects recorded at the same time as the second CHS recording). These recordings have already been analyzed by us so there is a large amount of heart rate variability and heart rate pattern data available. There are also subsets of the CHS and of another study (EPHESUS) who are known to have died suddenly, and we have developed a matched control group in order to examine ECG-based differences in those who died suddenly. We also have electronic sleep studies at two time points for about 300 of the CHS Holter participants who also participated in the Sleep Heart Health Study. We have analyzed an additional ~1500 sleep studies from CHS participants who did not have Holter recordings. Thus, there is also an opportunity in the CHS dataset for studies on the relationship of heart rate variability and changes in heart rate variability over time and a huge number of clinical and demographic factors among the elderly. We also have data on the relationship of Holter-based HRV and sleep apnea patterns to the development of atrial fibrillation post-cardiac surgery and data from a study of treatment of depression in treatment-resistant depressed post-MI patients, a study of sickle cell patients, and one of heart rate variability and echo parameters in elderly African Americans. Currently we are also analyzing HRV in both premature infants as they mature and also HRV as a predictor of response to treatment in babies in the NICU and PICU, using stored 24-hour bedside ECGs.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Tobias and Hortense Lewin Professor of Medicine
Chief, Division of Cardiology

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

J. Evan Sadler, MD, PhD
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. Thoelke, 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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B

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MD Dartmouth College 1992  
MD1 Brown University 1994  
BS Georgetown University 1990

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Carlos Bernal-Mizrachi, MD
Philip E & Carolyn E Cryer Professor of Medicine (primary appointment)
Associate Professor of Cell Biology and Physiology
MD Universidad del Valle Med Sch 1990

Aaron M Bernstein, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1948
MD University of Chicago 1952

Keith A Bernstein, MD
Instructor in Clinical Medicine (primary appointment)
BA University of MO Kansas City 1987
MD University of Missouri 1987

Marc Jordan Bernstein, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1992
BA Haverford College 1988

Douglas R Berson, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Pennsylvania 1983
BA Lehigh University 1981

Amit Indra Bery, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2014

Pavan Kumar Bhamidipati, MD
Instructor in Clinical Medicine (primary appointment)
MD Guntur Medical College 2007

Anita R. Bhandiwad, MD
Associate Professor of Medicine (primary appointment)
MD Northwestern University 1998
BA Northwestern University 1994

Mythili C. Bharadwaj, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN University of Madras 1988

Rakhee Kapadia Bhayani, MD
Associate Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1999

Stanley I Biel, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Illinois 1978
BA Rockford College 1974

Michael Biersmith, MD
Instructor in Medicine (primary appointment)
BS University of Notre Dame 2010
MD Eastern Virginia Med School 2014

Joseph John Billadello, MD
Associate Professor of Medicine (primary appointment)
MD Georgetown University 1978
BS State University of New York 1973

Ellen F Binder, MD
Professor of Medicine (primary appointment)
Professor of Occupational Therapy
MD Washington Univ in St. Louis 1981
BA Davenport University 1977

Aaron Birenbaum, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1948

William D Birenbaum, MD
Instructor in Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1978
MD University of Missouri 1983

Clifford Allen Birge, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Amherst College 1956
MD Washington Univ in St. Louis 1961

Stanley J Birge, MD
Associate Professor of Medicine (primary appointment)
BA Amherst College 1959
MD Washington Univ in St. Louis 1963

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

Kumar Sanjeev Bishnupuri, PHD, MS
Instructor in Medicine (primary appointment)
BS Tilka Manjhi Bhagalpur Univ 1988
PHD Banaras Hindu University 1999
MS Banaras Hindu University 1992

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

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

Merilda O Blanco-Guzman, MD
Instructor in Medicine (primary appointment)
MD PUCMM FACULTAT DE CIENCIAS DEL 2004

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

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

Imre Bodo  
Adjunct Instructor in Medicine (primary appointment)

Michael Bolger  
Instructor in Clinical Medicine (primary appointment)

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

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

Jamie Marie Borgmann  
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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)  
BS University of Minnesota 1968  
MD University of Minnesota 1968  
BA Washington Univ in St. Louis 1964  

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

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

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

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

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

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

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

Melvin J Butler  
Instructor in Clinical Medicine (primary appointment)  

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

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

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

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

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

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

Rebecca Goodwin Carey
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

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

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

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

Roque Castillo
Assistant Professor of Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

David Yuan-Sou Chen, PHD, MD
Instructor in Medicine (primary appointment)
Edward C. Chen, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2005

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

Jacqueline W. Chen, AB, MD
Instructor in Medicine (primary appointment)
AB Washington Univ in St. Louis 2010
MD Washington Univ in St. Louis 2014

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

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

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

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

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

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

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

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

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

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

Phillip Ruben Chisholm
Instructor in Clinical Medicine (primary appointment)

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

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

Matthew Christopher, PHD, MD
Instructor in Medicine (primary appointment)
PHD Washington Univ in St. Louis 2004
BA Saint Louis University 1993
MD Washington Univ in St. Louis 2010

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

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

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

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

Jeffrey Peter Ciaramita
Instructor in Clinical Medicine (primary appointment)

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

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

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

Geoffrey Cislo, MD
Assistant Professor of Medicine (primary appointment)
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)
MD Saint Louis University 1977
BA University of Missouri 1973

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

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

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

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

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

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

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

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

Sarah F Cole
Instructor in Clinical Medicine (primary appointment)
MS Yale University 2001

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

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

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

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

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

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

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

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

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

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

Daniel W Coyne, MD
Professor of Medicine (primary appointment)
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, MD, MBA
Instructor in Clinical Medicine (primary appointment)
MD University of Iowa 1986
MBA University of Pennsylvania 1994
BS University of Missouri 1980

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

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

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

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

Paulina Cruz Bravo, MD
Instructor in Medicine (primary appointment)
MD Universidad Automoma de Madrid 2009

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

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

Robert Culverhouse, MA, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Biostatistics

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

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

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

D

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

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

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

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

Peter G Danis
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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

Thomas Edward Davis
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

Anne V Dean, MD

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

James Matthew DuBois, D SC, MA, PHD
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Professor of Psychological & Brain Sciences  
BA Franciscan University Stubenv 1989  
D SC University of Vienna 1997  
MA University of Rhode Island 1990  
PHD Intrnl Academy of Philosophy 1992

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BS Muhlenberg College 1998  
DOST Univ of Health Sciences KC 2003

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

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Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1988
BA University of Missouri 1988

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

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

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BS Harvard University 2007
MD Saint Louis University 2012

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

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MD Univ Texas Health Science Ctr 2009
BS University of Miami 2005

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Professor of Medicine (primary appointment)
BA University of Missouri 1986
MD University of Missouri 1990

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Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1964
BA University of Missouri 1960

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BS Alcorn State University 1987
MD Howard University 1992

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Assistant Professor of Medicine (primary appointment)
PHD Columbia University 2003

Stilianos Efstratiadis
Assistant Professor of Clinical Medicine (primary appointment)

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

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Professor of Medicine (primary appointment)
MD Tehran University 1965

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

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

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PHD University of North Carolina 1982

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UNKNOWN School Not Listed 1982
MS School Not Listed 1986

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MD Southern Illinois University 1983
BS Southern Illinois University 1980

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

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MD University of Khartoum 1985
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BS University of MO Columbia 1996
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MD Washington Univ in St. Louis 1969
BS University of Notre Dame 1965

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

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Assistant Dean for Clinical and Translational Research
Professor of Occupational Therapy
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MD Brown University 1977
BA Brown University 1973

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BS University of Illinois 1985
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MD La Sapienza University 1998
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PHD Washington Univ in St. Louis 1993
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BS Kansas State University 1985

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BS School Not Listed 1982
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Associate Professor of Medicine (primary appointment)
MD Ohio State University 2002
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BS State Univ of NY Buffalo 1994

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BS University of Arizona 1996
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BS Univ of Wisconsin Whitewater 2010
MD Washington Univ in St. Louis 2014

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MD Northwestern University 2008

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MD University of Verona 1994
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PHD University of MO St Louis 2013  
BN Webster University 2003  
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BA Washington Univ in St. Louis 1984  
MD Washington Univ in St. Louis 1993

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MD University of Alabama 2003  
BA University of Alabama 1998

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BS University of Illinois 2001
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BA Wellesley College 1984
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Instructor in Clinical Medicine (primary appointment)
MD University of Iowa 1989
BS University of Illinois 1985

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Professor of Medicine (primary appointment)
BA Harvard University 1973
MD University of Maryland 1977

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Professor of Molecular Microbiology
MD Washington Univ in St. Louis 1985
PHD Washington Univ in St. Louis 1985
BA Harvard University 1978

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

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

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Instructor in Medicine (primary appointment)
MD University of Florida 2013

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

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Instructor in Medicine (primary appointment)
MS China Medical University 2005
PHD Zhejiang Medical University 2009

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Assistant Professor of Medicine (primary appointment)
MD University of Puerto Rico 2008
BS University of Puerto Rico 2004

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Professor of Medicine (primary appointment)
BS University of Nebraska 1970
MD Duke University 1974

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Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
BA Lehigh University 1979
MD Pennsylvania State University 1983

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

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

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

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

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

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Instructor in Clinical Medicine (primary appointment)

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

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

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

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Assistant Professor of Genetics
PHD University of British Columbia 2010
BS University of Winnipeg 2002
BS1 University of Winnipeg 2002

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

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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, AB, MD, PHD
Professor of Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1996
Jennifer Christine Hagopian  
Adjunct Instructor in Medicine (primary appointment)

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Instructor in Clinical Medicine (primary appointment)  
MBBS RNT Medical College 1968  
MD RNT Medical College 1973

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Assistant Professor of Medicine (primary appointment)  
MD Oregon Health Science Univers 2007

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Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD Royal College of Surgeons 2000

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

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

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Instructor in Medicine (primary appointment)  
MD University of Juba 2004

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Instructor in Clinical Medicine (primary appointment)  
MD Chicago St University 1995

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Instructor in Clinical Medicine (primary appointment)

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

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

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Instructor in Medicine (primary appointment)  
PHD State University of New York 2011

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

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

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

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

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

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

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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

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Instructor in Clinical Medicine (primary appointment)  
BA Saint Louis University 1982  
MD Saint Louis University 1991

Daniel Robert Herleth  
Instructor in Clinical Medicine (primary appointment)

Catherine Hermann, M ENG, MD  
Instructor in Clinical Medicine (primary appointment)  
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 Colunmb 2007

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

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

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Instructor in Clinical Medicine (primary appointment)
MD University of MO Kansas City 1997

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

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Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of Utah 2006

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MD Washington Univ in St. Louis 1970
BA Washington Univ in St. Louis 1965
MA Washington Univ in St. Louis 1970

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BS Brigham Young University 1974
MD University of Utah 1978

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

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

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MD Washington Univ in St. Louis 1999

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MD University of Kansas 1976

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MD Saint Louis University 2000

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Professor of Cell Biology and Physiology
MD Northwestern University 1975
BA Northwestern University 1971

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MD Saint Louis University 1968

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BA Clark University 1975
MD Washington Univ in St. Louis 1982

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BA University of MO Kansas City 1985
MD University of MO Kansas City 1986
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PHD Northeastern University 2008

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Associate Professor of Medicine (primary appointment)
BS Nanjing University 1999
MS Edinburgh University 2000
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BS Mass Inst of Technology (MIT) 1971
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Jacqueline Howard, UNKNOWN
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UNKNOWN School Not Listed 1995

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PHD Washington Univ in St. Louis 1996
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Professor of Medicine (primary appointment)
MD Taipei Medical University 1990
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PHD Univ of Texas Med Sch Houston 2007
MS Beijing Medical University 2000

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MD Loyola University Chicago 2000
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BS Colorado St University 2006

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BS Stanford University 2002
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Assistant Professor of Clinical Medicine (primary appointment)
MD University of Illinois 1967

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

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

William F Johnson
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

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

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

K

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

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

Sona Sharad Kamat
Instructor in Clinical Medicine (primary appointment)

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

Deborah Shipley Kane, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of MO Kansas City 2006
BA 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)
MD Tufts University 1994
BS Tufts University 1990

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

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

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

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

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

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

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

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

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

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

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

Charlotte J Kennedy, MD, PHD
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MD Washington Univ in St. Louis 1992
PHD Washington Univ in St. Louis 1992
BA Agnes Scott College 1984

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

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

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Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

Kenneth Richard Killian, MD
Instructor in Clinical Medicine (primary appointment)
BS Saint Louis University 1980
MD Saint Louis University 1984

Charles John Kilo, MD
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BA University of Kansas 1987
MD Washington Univ in St. Louis 1991

Albert J Kim, MD
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MD Drexel University 2005
PHD Drexel University 2005

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

Miriam Yunhee Kim, MD
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BS Yonsei University 2004
MD Seoul National University 2008

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MD Washington Univ in St. Louis 2001
BA Southern Methodist University 1997

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

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

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

Tinna P King
Instructor in Clinical Medicine (primary appointment)
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Erik Paul Kirk, MS, PHD
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Professor of Medicine (primary appointment)
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Sameer M. Kirtane, MD
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MSN University of Texas Austin 1987
PHD University of MO St Louis 2008
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BA Southern Illinois University 1979

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Professor of Medicine (primary appointment)
MD Harvard University 1960
BA Yale University 1956

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BA Barnard College 1985
MD Albert Einstein College of Med 1993
MS Albert Einstein College of Med 1990
PHD Albert Einstein College of Med 1993

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Professor of Cell Biology and Physiology
BA Brandeis University 1974
MD Temple University 1979
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Carolyn Koenig, MD
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Nita Kohli, MD, M PH
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PHD School Not Listed 1985

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BS US Military Academy 1979
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BA University of Notre Dame 1980

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BS Washington Univ in St. Louis 1975

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BS School Not Listed 1981

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Adjunct Professor of Physics
Professor of Biomedical Engineering
Professor of Cell Biology and Physiology
MS California Institute Technolo 1972
MD University of Miami 1979
BS Cornell University 1969
PHD California Institute Technolo 1977

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

Ronald J Krone, MD
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution(s)</th>
</tr>
</thead>
</table>
| John T. Milliken      | Professor of Medicine (primary appointment) | BS University of Michigan 1962  
MD University of Chicago 1966  
Elaine Susan Krul, PHD  
Adjustt Associate Professor of Medicine (primary appointment)  
PHD McGill University 1982  
BS McGill University 1977  
Kilannin Cathleen Krysiak, PHD  
Instructor in Medicine (primary appointment)  
BS University of Illinois 2006  
PHD Washington Univ in St. Louis 2014  
Thomas Kuciejczyk-Kernan, MD  
Instructor in Clinical Medicine (primary appointment)  
BS University of Illinois 1982  
MD Saint Louis University 1986  
Ralph F Kuhlman, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD University of Illinois 1964  
Frederick Matthew Kuhlmann, MD  
Instructor in Medicine (primary appointment)  
BS Emory University 1998  
MD Emory University 2002  
Anthony Kuczycki Jr, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Molecular Microbiology  
MD Harvard University 1970  
BA Princeton University 1966  
Robin A. Kundra, BS1, PHD, MD  
Instructor in Clinical Medicine (primary appointment)  
BS1 University of Georgia 1992  
BS University of Georgia 1992  
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MD Washington Univ in St. Louis 2000  
David I. Kuperman, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Arkansas 2001  
BA Hendrix College 1997  
Howard I. Kurz, MD, MEE, BS1  
Professor of Medicine (primary appointment)  
BS Mass Inst of Technology (MIT) 1979  
MD New York Medical College 1984  
MEE Princeton University 1980  
BS1 Mass Inst of Technology (MIT) 1979  
Vladimir Kushnir, MD  
Assistant Professor of Medicine (primary appointment)  
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MD Ohio State University 2006  
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DOST Chicago Coll of OsteopathicMed 2009  
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BA Univ of IL-Urbana-Champaign 2005  
George B Kyei, MD, MS, PHD  
Assistant Professor of Medicine (primary appointment)  
MD University of Ghana Medical Sc 1998  
MS University of Ghana Medical Sc 2003  
PHD University of New Mexico 2007  
L  
Albert Max Lai, M PHIL, MS, MA, PHD  
Associate Professor of Medicine (primary appointment)  
M PHIL Columbia University 2005  
MS Columbia University 2001  
BS Columbia University 2000  
MA Columbia University 2004  
PHD Columbia University 2007  
Roop Lal, MS  
Instructor in Clinical Medicine (primary appointment)  
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Irena Lanc, MS1, PHD  
Instructor in Medicine (primary appointment)  
MS1 University of Notre Dame 2012  
PHD University of Notre Dame 2014  
Michael A. Lane, MD, MS  
Assistant Professor of Medicine (primary appointment)  
MD Drexel University 2004  
MS John Hopkins University 2000  
BA Colgate University 1995  
Gabriel David Lang, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of Illinois Chicago 2009  
BA Northwestern University 2004  
Gregory Mark Lanza, MS, MD, PHD  
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  
BA Colby College 1975  
MS University of Georgia 1978  
MD Northwestern University 1992  
PHD University of Georgia 1981  
Gina N LaRossa, MD  
Assistant Professor of Medicine (primary appointment)  
MD Yale University 2007  
BS Yale University 2001  
Shane Joseph LaRue, MD  
Assistant Professor of Medicine (primary appointment)  
MD Medical College of Wisconsin 2005  


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

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

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

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

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

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

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

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

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

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

Deborah J. Lenschow, MD, PHD, MD1, PHD1  
Associate Professor of Medicine (primary appointment)  

Associate Professor of Pathology and Immunology  
BA Wittenberg University 1990  
MD University of Chicago 1998  
PHD University of Chicago 1995  
MD1 University of Chicago 1998  
PHD1 University of Chicago 1995  

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

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

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

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

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

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

Tingting Li, MD  
Instructor in Clinical Medicine (primary appointment)  
MD State Univ of NY Buffalo 1999  

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

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

Charles H Lieu, MD  
Instructor in Clinical Medicine (primary appointment)  
MD State Univ of NY Buffalo 1993
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution 1</th>
<th>Institution 2</th>
<th>Institution 3</th>
</tr>
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<tbody>
<tr>
<td>Stephen Bradley Lillard, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Univ of Health Sciences KC 1970</td>
<td></td>
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<tr>
<td>Kian-Huat Lim, PHD, MD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>PHD Duke University 2006</td>
<td>MD National Taiwan University 1999</td>
<td></td>
</tr>
<tr>
<td>Michael Yun Lin, MD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>BA Harvard University 1990</td>
<td>BA University of Iowa 1994</td>
<td></td>
</tr>
<tr>
<td>Kathryn Jesseca Lindley, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>BA Emory University 2007</td>
<td>BS University of Illinois 2003</td>
<td></td>
</tr>
<tr>
<td>Brian Richard Lindman, MA, MD</td>
<td>Adjunct Associate Professor of Medicine (primary appointment)</td>
<td>BA Reformed Theological Seminary 2001</td>
<td>MD Vanderbilt University 2003</td>
<td>BS Duke University 1997</td>
</tr>
<tr>
<td>Daniel C Link, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BA State University of New York 1973</td>
<td>MD State University of New York 1977</td>
<td></td>
</tr>
<tr>
<td>Michael Brayer Lippmann, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BA State University of New York 1973</td>
<td>MD State University of New York 1977</td>
<td></td>
</tr>
<tr>
<td>Mauricio Lisker-Melman, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BA University of MO St Louis 1971</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Howard S Lite, MA, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>BA Washington Univ in St. Louis 1977</td>
<td>BA University of Missouri 1979</td>
<td>MD University of Missouri 1983</td>
</tr>
<tr>
<td>Patricia Elizabeth Littkowski, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 2013</td>
<td></td>
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</tr>
<tr>
<td>Adam Daniel Littich, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD Saint Louis University 2009</td>
<td></td>
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<tr>
<td>Marina Litvin, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td></td>
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</tr>
<tr>
<td>Jianmei Liu, MS, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MS Shanghai Medical University 1987</td>
<td>MD Shanghai Medical University 1984</td>
<td></td>
</tr>
<tr>
<td>Xinping Liu, MS, PHD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD Northwest University 1999</td>
<td>PHD Washington Univ in St. Louis 2005</td>
<td>BS School Not Listed 1986</td>
</tr>
<tr>
<td>Adam Edward Locke, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>BA Lawrence University 2003</td>
<td>PHD Emory University 2010</td>
<td></td>
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<tr>
<td>Amy Loden, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD University of MO Columbia 2010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Andrea Loiselle, MD, M PH</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>BS University of California 1995</td>
<td>MD Drexel University 2005</td>
<td>M PH California State University 1999</td>
</tr>
<tr>
<td>Gregory D Longmore, MD, MS</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BS University of Western Ontario 1977</td>
<td>MD McGill University 1983</td>
<td>MS University of Toronto 1979</td>
</tr>
<tr>
<td>Dwight C Look, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BA University of MO Kansas City 1985</td>
<td>MD University of MO Kansas City 1985</td>
<td></td>
</tr>
<tr>
<td>James F Loomis Jr, MBA, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MBA Washington Univ in St. Louis 1997</td>
<td>MD University of Arkansas 1985</td>
<td>BA Hendrix College 1981</td>
</tr>
<tr>
<td>Herbert Lubowitz, MD</td>
<td>Associate Professor of Clinical Medicine (primary appointment)</td>
<td></td>
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</tr>
</tbody>
</table>
MD Washington Univ in St. Louis 1958
BA Clark University 1954

Philip A Ludbrook, MBBS
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MA Johns Hopkins University 1971
MD Johns Hopkins University 1973

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MD University of Iowa 1999
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PHD University of CA Los Angeles 1995

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BA Rice University 1993
MS Harvard University 2007
MD Emory University 1999

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PHD University of Michigan 2005
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William Edwin Magee, MD
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MD Duke University 1950

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

Jambunathan Mahadevan
Instructor in Clinical Medicine (primary appointment)

Christopher A Maher, PHD
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Assistant Director of The Genome Institute
PHD Stony Brook School of Medicine 2006

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

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

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

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

Majesh Makan, MD
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MD Univ of Panama School of Med 1984

Mary Kathryn Malecek, MD
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MD University of Illinois Chicago 2014
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Mohsin Ilyas Malik, MBBS
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MBBS Army Medical College 1999

Andrew F. Malone, MBCHB1
Assistant Professor of Medicine (primary appointment)
MBCHB1 Royal College of Surgeons 2005
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Kartik Mani, MBBS
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MBBS Delhi University 1998

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

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

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

George Mansour, MD
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Nathan Russell Martin, MD
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Thomas F Martin, MD
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MD Saint Louis University 1965
BS Saint Louis University 1961

Wade H Martin III, MD
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BA University of Kansas 1973

Jerald Arthur Maslanko, MD
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MD Emory University 1975

Mary Vest Mason, MBA, MD
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BS University of Illinois 1990
MBA Washington Univ in St. Louis 1999
MD Washington Univ in St. Louis 1994

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

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Instructor in Clinical Medicine (primary appointment)
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BS University of Melbourne 1996
PHD University of Melbourne 2000
BA University of Melbourne 1995

Anthony J-P Mattaline, DOST
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BS Northeast Missouri St Univrsy 1981
BA St Edwards University 1979
DOST School Not Listed 1985

Caline Mattar, MD
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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

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PHD University of Paris 1992
MA School Not Listed 1987

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BS Saint Louis University 1980
MD American Univ of the Caribbean 1984

Catherine Jordan McCarthy, MD, PHD
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PHD Washington Univ in St. Louis 2014
BA Agnes Scott College 2005

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MD Meharry Med College 1998
BS Xavier University 1993

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PHD University of MO Columbia 2013
BS University of Kansas 2006

William H. McCoy IV, PHD, BS1, MD
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PHD Washington Univ in St. Louis 2013
BS1 University of Pittsburgh 2002
BS University of Pittsburgh 2002
MD Washington Univ in St. Louis 2013

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MD New York Medical College 2001

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

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Associate Professor of Orthopaedic Surgery
Associate Professor of Physical Therapy
DPT Washington Univ in St. Louis 2005
MS Washington Univ in St. Louis 1990
BS Washington Univ in St. Louis 1990
AS Oakton Community College 2000

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

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MD University of MO Columbia 2008

Janet B McGill, MD, MA
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MD Michigan State University 1979
MA Northern Michigan University 1980
BS University of Michigan 1972

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BA McGill University 1975
MD School Not Listed 1981

Clark R McKenzie, MD
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MD University of Missouri 1989
BA University of Missouri 1989

Robert M McMahon, MD, JD
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MD Washington Univ in St. Louis 1989
JD University of California 1974

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MA University of Houston 1999
BA University of CA San Diego 1996

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BA School Not Listed 1958
MD Washington Univ in St. Louis 1962

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

Anibal G Melo, MD
Instructor in Clinical Medicine (primary appointment)
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<tr>
<th>Name</th>
<th>Degree/Institution</th>
<th>Field/Degree/Institution</th>
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<tr>
<td>Heidi B Miller, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>BS Yale University 1994</td>
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<td>MD Harvard University 2000</td>
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<tr>
<td>Lara Elizabeth Miller, DOST</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>BS Carleton College 1996</td>
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<td>DOST Midwestern University 2000</td>
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<td>Mark James Miller, PHD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>Associate Professor of Pathology and Immunology</td>
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<tr>
<td>Jeffrey R Millman, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>Assistant Professor of Biomedical Engineering</td>
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<td>PHD Massachusetts Institute of Technology (MIT) 2011</td>
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<tr>
<td>Jason C Mills, MD, PHD, MD1, AB</td>
<td>Professor of Medicine (primary appointment)</td>
<td>Professor of Developmental Biology</td>
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<tr>
<td>Graeme Mindel, MBBCH, MS</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MBBCH University of the Witwatersra 1992</td>
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<tr>
<td>Jeffrey H Miner, PHD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>Professor of Cell Biology and Physiology</td>
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<td>PHD California Institute of Technology 1991</td>
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<tr>
<td>Jonathan J Miner, MD, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>Assistant Professor of Developmental Biology</td>
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<td>BS Brigham Young University 2002</td>
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<tr>
<td>Makedonka Mitreva, MS, PHD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>Associate Professor of Genetics</td>
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<td>MS University of Skopje, Macedonia 1994</td>
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<tr>
<td>Bettina Mittendorfer, PHD, MS</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>Associate Professor of Genetics</td>
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<td>PHD Wageningen University 2001</td>
</tr>
</tbody>
</table>
Instructor in Clinical Medicine (primary appointment)

**N**

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

Jyotirmaya Nanda  
Instructor in Clinical Medicine (primary appointment)

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

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

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MD University of Chicago 1978  
BA Carleton College 1970

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MA Stanford University 1981  
BS University of California 1980  
PHD Stanford University 1989

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BS City College 1970  
MD Loyola University Chicago 1974

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

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BS Framingham State College 1974

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PHD Washington Univ in St. Louis 1995

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BA Washington Univ in St. Louis 1987

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BS1 University of Michigan 1989  
BS University of Michigan 1989  
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MD Royal College of Surgeons 2010

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MD State University of New York 1973  
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BS Harvard University 1996
MD Northwestern University 2004
PHD Northwestern University 2002

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BS University of Ibadan 1975
PHD University of Ibadan 1981

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Professor of Surgery (Public Health Sciences)
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MPH Saint Louis University 2001
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MD Saint Louis University 1965

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UNKNOWN School Not Listed 1983

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MD University of Tennessee 1999
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PHD Chiba University 2017
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BS Stanford University 1994
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BA Washington Univ in St. Louis 1953
MD Washington Univ in St. Louis 1956
BS University of Missouri 1954
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Instructor in Clinical Medicine (primary appointment)  
MD Vanderbilt University 2002  
BS Duke University 1998  

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Professor of Emergency Medicine in Medicine (primary appointment)  
Professor of Neurology  
MD Emory University 1994  
MA Boston University 1994  
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Instructor in Medicine (primary appointment)  
MS University of Texas Houston 2011  
MBBS Byramjee Jeejeebhoy Medical Co 2009  

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PHD University of MO St Louis 2015  
MA Southeast Missouri St Univers 1995  

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MD St. George’s University 2006  
BA Yale University 1995  

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

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BS University of MO Rolla 1979  
MBA Southern Illinois University 1985  
MD Saint Louis University 1994  

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

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

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Instructor in Clinical Medicine (primary appointment)  
MD Saba University School of Med 2001  

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

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

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

Bruce Patterson, PHD  
Professor of Medicine (primary appointment)  
BS Southern Illinois University 1974  
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PHD Columbia University 2006  
MA Columbia University 2000  
BA University of CA San Diego 1999  

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MS Central Michigan University 1984  
BFA Southern Methodist University 1977  
PHD University of Southwestern Lo 1986  
DOST School Not Listed 1992  

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Affiliated Professor of Engineering  
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BA Harvard University 1955  
MD University of Rochester 1960  

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BA Grinnell College 2003  
MS University of Iowa 2005  
MD Southern Illinois University 2009  

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

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

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

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

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

Allegra Petti, PHD  
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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

David Tuan Pham, MD  
Instructor in Medicine (primary appointment)  
BS University of Oklahoma 2010  
MD University of Oklahoma 2014

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

William J Phillips, MD  
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MD Washington Univ in St. Louis 1963  
BA Ohio State University 1959

Joel Picus, MD  
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BS University of Illinois 1979  
BA University of Illinois 1979  
MD Harvard University 1984

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

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

Beatrice Plougastel Douglas, PHD  
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PHD University of Pierre et Marie 1994

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

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

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

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

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

Katherine P Ponder, MD  
Professor of Medicine (primary appointment)  
Professor of Biochemistry and Molecular Biophysics  
BS Stanford University 1979  
MD Washington Univ in St. Louis 1983

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

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

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

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

William G Powderly, MD
J. William Campbell Professor of Medicine (primary appointment)
Larry J. Shapiro Director of the Institute of Public Health
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John A Powell, MD
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
BS University of Notre Dame 1967
MD University of Michigan 1971

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

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

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

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

Vajravel M Prasad
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

Aaron J Pugh
Adjunct Instructor in Medicine (primary appointment)

Edward Puro, MS, PHD, MD
Assistant Professor of Clinical Medicine (primary appointment)
MS University of Toronto 1966
BS University of Toronto 1962
PHD University of Toronto 1970

MD Washington Univ in St. Louis 1975

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

Usman Qayyum
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

Srivinvasan Raghavan
Instructor in Clinical Medicine (primary appointment)

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

Srivinvasan Dubagunta Rao
Adjunct Instructor in Medicine (primary appointment)

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

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

Keith M Ratcliff
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

Arhaanth D Reddy
Instructor in Clinical Medicine (primary appointment)

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

Katherine Marie Reeder, PHD
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PHD University of Iowa 2007

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

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

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

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

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

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

Jacqueline Levy Reiss, MD
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BA University of MO Kansas City 1989

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BS University of Cordoba 1987
MS University of Cordoba 1989
PHD University of Cordoba 1999

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BS Lehigh University 1995
MS Mount Sinai School of Medicine 2000
MD Mount Sinai School of Medicine 2004
PHD Mount Sinai School of Medicine 2002

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

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

Michael W Rich, MD
Professor of Medicine (primary appointment)
BA University of Illinois 1974  
MD University of Illinois 1979  
Lois F. Richard, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
PHD Saint Louis University 1998  
MD Saint Louis University 1999  
BS Murray St University 1982  
Nancy Ridenour  
Adjunct Professor of Medicine (primary appointment)  
Terrence E Riehl, MS, PHD  
Associate Professor of Medicine (primary appointment)  
BS Rutgers University 1974  
MS Rutgers University 1976  
PHD Ohio University 1981  
Amy Elizabeth Riek, MD  
Assistant Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 2005  
BS Univ of Wisconsin Madison 2001  
Robert D Rifkin, MD  
Professor of Medicine (primary appointment)  
BS Mass Inst of Technology (MIT) 1968  
MD New York University 1972  
Caron E Rigden, MD, BFA  
Assistant Professor of Medicine (primary appointment)  
MD Tulane University 2000  
BFA Tulane University 1996  
Tracy Marie Riordan, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Saint Louis University 1996  
MD Saint Louis University 2000  
Elisha D.O. Roberson, PHD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Genetics  
PHD Johns Hopkins University 2009  
BS Western Kentucky University 2004  
Paul Arthur Robiolio, M PHIL, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BS Haverford College 1983  
M PHIL Cambridge University 1985  
MD Washington Univ in St. Louis 1989  
M. Reza Rofougaran, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Tehran University 1988  
H. Bryan Rogers, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1965  
Felice A Rolnick, MD  
Instructor in Clinical Medicine (primary appointment)  
MD School Not Listed 1987  
BS Union College New York 1982  
Rizwan Romee, MD  
Assistant Professor of Medicine (primary appointment)  
MD Gov't Gandhi Memorial Sci Coll 2004  
Arthur G. Romero, PHD  
Associate Professor of Medicine (primary appointment)  
PHD Univ of Wisconsin Madison 1985  
BS Johns Hopkins University 1979  
Ernesto J Romo, MD  
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)  
BS University of Dayton 2007  
MD University of Illinois Chicago 2011  
Daniel B Rosenbluth, MD  
Professor of Medicine (primary appointment)  
Professor of Pediatrics  
Tracey C and William J Marshall Professor of Medicine  
BS Columbia University 1985  
MD Mount Sinai School of Medicine 1989  
Anna Roshal, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of Rochester 1997  
BS University of Rochester 1993  
Ilana Shaina Rosman, MD  
Assistant Professor of Medicine (Dermatology) (primary appointment)  
Assistant Professor of Pathology and Immunology  
MD Washington Univ in St. Louis 2008  
BA Brown University 2000  
Ian Ross, MD  
Instructor in Medicine (primary appointment)  
MD East Tennessee State Universi 2013  
Bruce J Roth, MD  
Professor of Medicine (primary appointment)  
MD Saint Louis University 1980  
Marcos Rothstein, MD  
Professor of Medicine (primary appointment)  
MD University of Zulia 1974  
Ernest Tuttle Rouse III, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Princeton University 1967  
MD Washington Univ in St. Louis 1971  
Jeremy Rower, MD  
Instructor in Clinical Medicine (primary appointment)  
BS University of Cincinnati 1993  
MD University of Cincinnati 1997  
Deborah C Rubin, MD  
Professor of Medicine (primary appointment)  
Professor of Developmental Biology
MD Albert Einstein College of Med 1981
BS Mass Inst of Technology (MIT) 1977

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

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

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

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

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

Michael B Rusche
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

MS Southern Illinois University 1980
MD University of Texas Austin 1987
BA Southern Illinois University 1978

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

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

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

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

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

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

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

Sonny Satnam Saggar
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

BA Harvard Radcliffe 1982

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Rajiv Kumar Sharma**
Adjunct Instructor in Medicine (primary appointment)

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

**Nidal Shawahin, MD**
Instructor in Clinical Medicine (primary appointment)
MD University of Louisville 1995
BA Johns Hopkins University 1991

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

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

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

**Haina Shin, PHD**
Assistant Professor of Medicine (primary appointment)
BA Northwestern University 2004
Cara L Shirai, MS, PHD  
Instructor in Medicine (primary appointment)  
BS Southeast Missouri St Univers 2002  
MS Southeast Missouri St Univers 2005  
PHD Saint Louis University 2010

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

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

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

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

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

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

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

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

Sanford S Sineff, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD Brown University 1996  
BS Harvard University 1982

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

Gurcharan J Singh, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Delhi University 1968
MD Washington Univ in St. Louis 1975

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

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

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

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

John Spertus  
Adjunct Professor of Medicine (primary appointment)

Michael Spezia  
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

BS Providence College 1967

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

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

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

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

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

Keith Evan Stockerl-Goldstein, MD  
Associate Professor of Medicine (primary appointment)  
MD University of CA Los Angeles 1991  
BA Washington Univ in St. Louis 1986

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

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

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

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

Xinming Su, PHD, MS  
Instructor in Medicine (primary appointment)  
PHD Nanjing Agriculture Univ 2006  
BS Shihezi Medical College 1996  
MS Nanjing Agriculture Univ 2003
Xiong Su, PHD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Cell Biology and Physiology  
BS Beijing University 1998  
PHD Washington Univ in St. Louis 2004

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

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

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

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

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

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

Rudee Suwannasri, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Chiang Mai University 1971  
MD Chiang Mai University 1973

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

Elzbieta Anna Swietlicki, MS, PHD  
Assistant Professor of Medicine (primary appointment)  
MS Medical Academy Lodz 1975  
PHD Medical Academy Lodz 1981

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

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

BS University of the Philippines 1985

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

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

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

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

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

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

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

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

Shaukat Thanawalla  
Instructor in Clinical Medicine (primary appointment)

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

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

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

Benjamin S Thomas, MD
Adjunct Instructor in Medicine (primary appointment)  
BS Georgia Tech 2002  
MD Mercer University Macon 2009  
**Theodore Seth Thomas, MD, MS, M PH**  
Instructor in Medicine (primary appointment)  
MD University of MO Columbia 2010  
MS University of MO Columbia 2006  
BS University of MO Columbia 2005  
M PH Washington Univ in St. Louis 2017  
**Erik P Thyssen, MD**  
Assistant Professor of Clinical Medicine (primary appointment)  
MD University of Copenhagen 1984  
BS University of Copenhagen 1980  
**LinLin Tian, PHD**  
Instructor in Emergency Medicine in Medicine (primary appointment)  
BS Hebei Medical University 2004  
PHD Beijing Institute of Radiation 2009  
**Lawrence S Tierney, MD**  
Associate Professor of Clinical Medicine (primary appointment)  
BS University of Illinois 1984  
MD University of Illinois 1988  
**Jeffrey P Tillinghast, MD**  
Associate Professor of Clinical Medicine (primary appointment)  
BS State University of New York 1976  
MD Washington Univ in St. Louis 1980  
**Wael Toama, MD**  
Instructor in Medicine (primary appointment)  
MD Damascus U. Medical School 2005  
**Garry S Tobin, MD**  
Professor of Medicine (primary appointment)  
BS MO S&T (formerly UofMO Rolla) 1981  
MD Washington Univ in St. Louis 1985  
**Fadi Tohme, MD**  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Anesthesiology  
MD St. Joseph University, Beirut 2010  
**Douglas M Tollefson, PHD, MD**  
Professor of Medicine (primary appointment)  
PHD Washington Univ in St. Louis 1977  
MD Washington Univ in St. Louis 1977  
BA Grinnell College 1970  
**Michael H. Tomasson, MD**  
Adjunct Assistant Professor of Medicine (primary appointment)  
MD Stanford University 1992  
BA Wesleyan University 1986  
**Robert R Townsend, MS, MD, PHD**  
Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
MS Tulane University 1976  
MD Tulane University 1976  
BS Centenary College 1972  
PHD Johns Hopkins University 1982  
**Elizabeth A Tracy, MD**  
Instructor in Clinical Medicine (primary appointment)  
MD Univ of Wisconsin Milwaukee 1986  
BS Marquette University 1982  
**Doris Janet Tribune-Brown**  
Instructor in Clinical Medicine (primary appointment)  
**Nikolaos Trikalinos, MD**  
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MD UNIVERSITY OF IOANNINA 2005  
**Sandeep Kumar Tripathy, PHD, MD**  
Assistant Professor of Medicine (primary appointment)  
PHD University of Chicago 1995  
MD University of Chicago 1998  
BS University of Illinois 1990  
**Elbert P Trulock III, MD**  
Rosemary and I Jerome Flance Professor of Pulmonary Medicine in Medicine (primary appointment)  
BS Emory University 1968  
MD Emory University 1978  
**Thomas F Tse, MD**  
Instructor in Clinical Medicine (primary appointment)  
MD Univ of Nebraska at Omaha 1976  
BS University of Nebraska 1972  
**David J Tucker, MD**  
Assistant Professor of Clinical Medicine (primary appointment)  
BS University of Notre Dame 1977  
MD Saint Louis University 1981  
**Dolores R Tucker, MD**  
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)  
MD Washington Univ in St. Louis 1974  
BS Saint Mary’s College 1958  
**Stacey S Tull, MD, M PH**  
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)  
MD Duke University 1997  
M PH Duke University 1997  
BS University of Texas Austin 1993  
**John W Turk, MD, PHD**  
Professor of Medicine (primary appointment)  
Alan A and Edith L Wolff Professor of Endocrinology  
Professor of Pathology and Immunology  
MD Washington Univ in St. Louis 1976  
PHD Washington Univ in St. Louis 1976
BA Washington Univ in St. Louis 1970

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Adjunct Associate Professor of Medicine (primary appointment)
MD CEBU Doctor's College of Med 1982
BS University of San Carlos 1978

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

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

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

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

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

David Wallace, MD
Instructor in Clinical Medicine (primary appointment)
BA Saint Anselm College 1980
Laura A Wallace, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
BA Indiana University Indianapolis 2017
MD Ohio State University 2012

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

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

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

Richard Coburn Walters, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
BS University of Illinois 1969
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M25 Medicine 507 Practice of Medicine I

The practice of medicine requires that physicians integrate a diverse array of knowledge. Clinicians must interview and examine a patient, understand that patient's experience of illness, develop an evidence-based differential diagnosis, and engage patients in their treatment plan, all the while attending to the ethical dimensions of clinical medicine. Physicians must understand how to promote the health of populations as well as that of individual patients. Physicians must also master skills for lifelong learning to remain competent professionals. The Practice of Medicine I (TPM I) is the first part of a three-year course about the interfaces between patient, doctor and society. The course is organized around the Content Areas described below. In addition, regular Integrative Case Sessions will highlight the interrelationships of the TPM Content Areas. Primary Care Preceptor sessions will provide each student with an introductory experience in outpatient medicine. Content Areas:

- **The Experience of Illness**, Stephen S. Lefrak, MD. The practice of medicine reflects the tension between the unique story of individual patients and the generalized scientific understanding of disease. Physicians must learn to understand and resolve this tension as much as possible. The Experience of Illness is intended to help the student become aware of those areas that determine this unique response to biological processes. In addition to readings and small group discussions, students will write both a personal illness narrative and a patient-centered narrative following a home visit to a patient.

- **Health Promotion/Disease Prevention**, Bradley Evanoff, MD, MPH. This overview of public health and preventive medicine will combine theory and application to allow students to interpret the scientific literature, to approach clinical medicine with an emphasis on prevention, and to understand aspects of the social, economic, and political environments which affect health and health care. We will focus on methods of primary and secondary prevention, and on nutritional, environmental, and behavioral factors that impact health. Discussions will include immunization, screening for chronic diseases, and effects of toxic exposures.
• Scientific Method of Clinical Medicine and Research, Jay F. Piccirillo, MD. Students will learn the central role of clinical epidemiology and medical statistics in the care of patients, the critical review the published literature, and the conduct of clinical research. Students will also learn to use computerized statistics and spreadsheet programs, as well as how to measure and improve the quality of care.

• Clinical Skills, Yoon Kang, MD. Students will perform a complete physical exam (excluding neurologic and mental status exams). Additionally, students will learn how to summarize their findings in a written form, both in the context of a complete history and physical note and a daily progress note (i.e., SOAP note).

• Doctor-Patient Communication, Elliot E. Abbey, MD. This section begins development of physician-patient communication skills through several mechanisms. Students will observe their small group instructors taking medical histories from hospitalized patients. Subsequently, the instructors will observe student-patient interaction in the same setting. Lectures regarding the standard components of the history will coincide with the instructor role-modeling segment. Finally, videotapes illustrating examples of positive and negative aspects of communication will be utilized.

• The Ethics and Context of Medicine, Rebecca Dresser, JD. This content area introduces students to ethical, social, and legal issues arising in the practice of medicine. Topics to be covered include: the responsibilities of medical professionals; the doctor-patient relationship; and the organization and financing of health care. Issues in resource allocation, clinical research and genetics will also be addressed.

Credit 198.5 units.

M25 Medicine 605A Infectious Diseases
The infectious diseases course now includes a basic discussion of medical microbiology previously taught in the first year. The infectious disease portion emphasizes both organism-specific and organ-specific approaches to disease caused by microbes. The course aims to expand upon the material presented in the first year concerning bacteria, viruses, fungi and parasites and their involvement in causation of human disease. Educational methods include lecture and clinical case discussions in small groups.
Credit 51 units.

M25 Medicine 606A Rheumatology
The rheumatology pathophysiology course begins with an overview of the structure, function and physiology of the normal joint. The pathophysiology of both localized joint disorders such as osteoarthritis and infectious arthritis are then presented, along with systemic inflammatory disorders including rheumatoid arthritis, lupus and vasculitis. Diagnosis, pharmacologic management and rehabilitation of these conditions are included. In small group sessions, students interview patients and observe the characteristic physical findings of these disorders.
Credit 17 units.

M25 Medicine 607 Practice of Medicine II
The goal of The Practice of Medicine (TPM) is to provide students with a set of knowledge, skills and attitudes essential to patient care regardless of specialty. TPM II is a continuation of TPM I and will build on concepts introduced during TPM I. TPM II will continue to address various interfaces between patients, physicians and society and will also introduce approaches to clinical thinking and decision-making in the context of today’s socioeconomic and cultural environment. The sections of TPM II include Advanced Physical Examination, Case Development, Communication, Ethics and Health Policy, Health Promotion/ Disease Prevention, Interpreting Illness, Ophthalmology, Patient Sessions, Radiology, and Scientific Methods. The learning objectives for each section of TPM II emphasize topics and skills utilized in all fields of medicine, and the majority of the course work for TPM II will be taught in small groups or through clinical experiences.
Credit 99 units.

M25 Medicine 611B Cardiovascular Disease
The purpose of this course is to consider the mechanisms and manifestations of acquired and congenital cardiovascular disorders as well as their pharmacologic treatment. Lectures and group discussions are provided which emphasize the major areas of cardiac pathophysiology and pharmacology.
Credit 30 units.

M25 Medicine 612B Pulmonary Diseases
The objectives of the pulmonary pathophysiology course include to review normal pulmonary physiology as related to specific pulmonary disease states. The focus of the course will largely be upon presentations in lectures concerning pathophysiologic principles of abnormal lung structure and function. In addition, case study problems will be discussed.
Credit 22.5 units.

M25 Medicine 613B Renal & Genitourinary Diseases
After a review of normal renal physiology and structure, the course focuses upon renal disease states including glomerulonephritis, secondary glomerulo diseases, diabetic and tubulointerstitial nephropathies, disorders of fluid volume and osmolality, electrolyte and acid/base disturbances, hypertension, renal infection, nephrolithiasis, as well as acute and chronic renal failure. Teaching of renal pathophysiology is integrated with the renal segment of the pathology course. Lectures are supplemented by clinical case discussions in small groups.
Credit 38 units.

M25 Medicine 614 Dermatology
The dermatology second-year course is designed to teach medical students how to describe skin lesions and the pathophysiologic basis and clinical characteristics of major dermatologic diseases. Major categories of clinical skin diseases and their most prominent constituents will be discussed, including papulosquamous diseases, blistering diseases, infectious diseases, and benign and malignant neoplasms.
Credit 8 units.

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

M25 Medicine 620A Gastroenterology and Liver Diseases/Nutrition
This course discusses the pathophysiological mechanisms involved in producing disease of the gastrointestinal tract including esophagus, stomach, small and large intestines, liver, gall bladder and pancreas. A series of lectures related to nutrition and the impact of nutritional disorders on health and disease are also included. Lectures are supplemented by group seminars that include clinical case presentations. Credit 32 units.

M25 Medicine 625A Hematology and Oncology
The hematology pathophysiology course exposes students to common hematologic disorders and hematologic malignancies. The course utilizes lectures, clinical case discussions and practical sessions involving microscopy. Credit 39 units.

M25 Medicine 707 Practice of Medicine III
Objectives: 1. To review challenges and dilemmas relevant to the practice of clinical medicine. 2. To examine clinical experiences from a variety of perspectives. In this course, themes and topics relevant to students in their clinical stage of training are discussed. Session formats include lecture, panel discussion and/or small group. As students exchange problematic scenarios and questions, the group develops potential solutions and management schemes. Topics in the past have included: Session 1: Complementary and Alternative Medicine; Session 2: Safe and Quality Care at BJH; Session 3: Communicating Serious Adverse Events to Patients and Families; Session 4: Intimate Partner Violence; Session 5: Medical Malpractice/Reform; Session 6: Health Care Financing; Session 7: Update on the Patient Protection and Affordable Care Act (PPACA); Session 8: Clinical Practice Management; Session 9: Recognizing Personal Biases; Session 10: Evaluation and Treatment of Patients with Disabilities. Attendance at eight out of 10 POM III sessions is required to pass this course. Student may use two absences for any reason and are recommended to save them for their ACES rotation. Credit 31 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 are assigned to this four-week rotation. Students will spend their first day in an orientation session learning suturing, ECG interpretation and airway management (including intubation skills) in hands-on laboratories. They will also review pelvic examinations and view an education video on domestic violence. On day two, they begin primarily evaluating non-emergent patients in Urgent Care and report directly to an Emergency Medicine attending. There are four hours of conferences per week (8-10 a.m. on Tuesday and Wednesday mornings) — attendance is mandatory. Discussions are currently underway to allow students to participate in helicopter ride-alongs with ARCH Airmedical Services. Students can expect to gain a wide range of skills in evaluating uncomplicated upper respiratory infections, urinary tract infections, sexually transmitted diseases, lacerations, eye problems, rashes, simple extremity trauma — in general, "bread and butter" medical/surgical problems. Students do a case presentation (15 min.) at the close of the block. Credit 154 units.

M25 Medicine 730 Physical Medicine and Rehabilitation Clerkship
Clerkship in PM&R for third-year medical students provides an opportunity to gain basic knowledge and clinical skills in evaluation and management of a wide range of neurological and musculoskeletal diseases and conditions that require specialized rehabilitative medical and therapeutic care. Students spend two weeks on the Spinal Cord Injury Unit (SCI) and two weeks on the Brain Injury (BI) and Stroke Unit at The Rehabilitation Institute of St. Louis. Students are expected to be a part of the rehabilitation team, follow three to five patients, participate in daily morning rounds, participate in performing consults, and attend team meetings and family conferences. Students are required to attend several outpatient clinics such as SCI, BI, Amputee and Stroke. During the entire rotation, students work with PM&R residents and fellows, and under direct guidance of the NeuroRehabilitation faculty. The usual duty hours are 7:30 a.m. to 5 p.m. weekdays and 8 a.m. to noon on Saturdays. There is no night call. Students are required to attend all PM&R curriculum lectures and conferences. On the first day of rotation, students meet with the PM&R program director to go over goals, objectives and schedules. Upon completion of the rotation, students are required to fill out the evaluation form to provide feedback regarding rotation experience. Credit 154 units.

M25 Medicine 740 Dermatology Clerkship
The goal of the dermatology clerkship is to provide a guide for the student to appreciate dermatology within the broader perspectives of medicine and biology. The student will develop familiarity with dermatologic vocabulary, learn to recognize and initiate therapy of common dermatologic disorders and become cognizant of uncommon or complicated dermatologic problems that require specialty care. Emphasis will be placed on careful history taking and physical examination. Students will always work under the direction of the resident physician and the attending physicians in the clinic setting. Credit 154 units.
M25 Medicine 750 Geriatrics Clerkship
The primary goal of the four-week clerkship in Geriatrics is to provide an opportunity for students to gain proficiency in the principles of geriatric evaluation, including the medical, psychological, social, and functional assessments of older adults. Direct, hands-on experience with patients is a major feature of the clerkship. Students are expected to participate in the evaluation of three to five patients per week, in a variety of settings including the hospital Acute Care for the Elderly (ACE) unit on 3200 North Campus, the Older Adult Outpatient Assessment Program (Storz building), and the Long Term Care Setting (Barnes Extended Care in Clayton). Students attend hospice, geropsychiatry rounds, and the geriatric conferences while on the rotation. Students are assigned to a variety of attendings to enhance the experience. There is no night call or call on weekends. Participation on the hospital consult service will occur depending on volume. The day normally begins at 8:00 a.m. and is usually finished by 5. There will be time to read the detailed syllabus/bibliography. Students will be asked to present a brief topic of their choice at the end of the rotation and demonstrate knowledge of the geriatric screens and assessments.

Credit 154 units.

M25 Medicine 801 Honors Medicine - General Medicine
The purpose of the Honors Medicine elective (sub-internship) is the development of expertise in the care of hospitalized patients in a well-supervised teaching environment. Sub-interns act as their patients’ interns under the supervision of residents and attending physicians. Sub-interns have the same on-call and admitting schedules as the interns on their teams and are assigned up to two new patients on each admitting day. Sub-interns are not required to spend call nights in the hospital. Except in emergencies, sub-interns are the first individuals to evaluate patients admitted to medical service teams. A diagnostic and therapeutic approach to the patient is planned in consultation with the resident. Sub-interns assume primary responsibility for the daily care of their patients and their families. Sub-interns attend the same conferences as the house staff.

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

M25 Medicine 807 Honors Medicine - VA Hospital
The purpose of the Honors Medicine elective (sub-internship) at the VA Medical Center is to develop practical experience and expertise in the care of hospitalized patients on an internal medicine ward. With appropriate supervision by the attending and resident physicians, sub-interns will have similar responsibilities as interns. They have the same on-call/admitting schedules as the interns and participate in the same teaching conferences, but they do not take overnight call. Sub-interns should admit at least two patients per call day, and they should be the first to evaluate the patients admitted to the medical service, except in emergencies. A diagnostic and therapeutic approach to evaluating each patient is planned in consultation with the resident. While being supervised as listed above, sub-interns assume primary responsibility for the daily care of their patients, including evaluation on daily rounds, scheduling and obtaining results of diagnostic studies, calling consults, planning therapy, making arrangements for care after discharge, and communicating with patients and their families.

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

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

M25 Medicine 814 Clinical Emergency Medicine - Barnes-Jewish Hospital
This rotation offers practical experience in the evaluation and management of acutely sick and injured patients. Students will function as sub-interns, initially evaluating their assigned patients and developing a plan for further diagnostic studies and therapy. They will report to a senior-level resident or an attending physician. The student can expect to get an opportunity to perform a wide variety of procedural skills such as suturing, splinting, peripheral and central venous access, and cardiopulmonary resuscitation. Shifts will be eight hours, and students will rotate between day, evening and night shifts, including weekend shifts, in order to gain maximum exposure to all types of emergencies. A core content of lectures will be provided. Students will gain an understanding of prehospital care by doing a ride-along shift with the St. Louis Fire Department EMS. Students will also have a shift with the toxicology attendings and residents and will gain knowledge of the basics of ultrasound during their time in the department. Students
interested in EM will be doing 1:1 shifts with a single attending during their last two weeks of the rotation. Students desiring a letter of recommendation from any EM attending should take this WUSM IV Emergency Medicine rotation. Students will be scheduled for required weekend and overnight shifts, and changes will not be allowed to the schedule unless approved prior to the start of the rotation by the course coordinator. Please be advised that there is a limit of days off while on this rotation during interview season; otherwise, students should arrange to take the elective at a different time during the year. Days off during the rest of the year will conform to university policy. Days off should be requested from the course coordinator at least two weeks prior to the beginning of the rotation for scheduling purposes.

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

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

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

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

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

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

M25 Medicine 831 Pediatric Dermatology
This clinical rotation will be available to students interested in dermatology, pediatrics or both. Students will follow the dermatology rotation (M25 830) with an emphasis on pediatric dermatology by attending pediatric dermatology clinics, seeing consults, etc. Enthusiastic students will have an opportunity to write up a case report if they wish, but need to notify the instructor before the course.

M25 Medicine 834 Clinical Mentoring
This elective is designed to develop the teaching and mentoring skills of our fourth-year medical students through structured hospital sessions with first-year medical students and supervised sessions with clinical faculty. The primary format of the elective is observation of the first-year students during hospital sessions.
where the first-years perform the H&P and the fourth-year mentors offer constructive feedback. Each H&P write-up is also thoroughly reviewed and critiqued by the mentor. Supervisory sessions also occur with clinical faculty who give feedback on both the performance of the first-year students as well as the mentoring skills of the fourth-year.

M25 Medicine 836 Clinical Gastroenterology and Hepatology
The GI Hepatology elective is integrated into a very active inpatient/outpatient and endoscopy scope at Barnes-Jewish Hospital. Students will participate in the evaluation of inpatients and outpatients with a spectrum of gut and liver disorders, will make patient rounds with the faculty and fellows, and have responsibility for patients on whom consultations have been requested. In addition, they will observe biopsy, endoscopic, and intubation techniques and participate in outpatient clinic and GI conferences.

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

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

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

M25 Medicine 844 Hematology and Hemostasis
Activities planned include workup of patients at Barnes-Jewish Hospital under the supervision of the hematology fellow and his staff consultant; attendance at clinical rounds three to five hours weekly; participation in outpatient clinics; experience in various procedures, especially blood and bone marrow morphology and in interpretation of coagulation tests. Daily student rounds with a senior staff person.

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

M25 Medicine 853 Bone and Joint Infectious Disease Consult
Study of infectious diseases of the bones and joints, including infections in both native and prosthetic joints. The elective is designed to teach students the fundamentals of evaluating clinical orthopedic infections and formulating plans for workup and therapy. Students see consultations in infectious diseases in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with the infectious diseases attending and nurse practitioner, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics and antifungal agents. The role of surgical and medical management is discussed, and the students will interact with surgical staff in understanding the risks and outcomes of these common infections. Two weeks of General Infectious Disease are a prerequisite to this course.
M25 Medicine 854 Transplant Infectious Disease
Study of infectious diseases in patients who have had bone marrow or solid organ transplants, or who have a hematologic malignancy. The elective is designed to teach students the fundamentals of evaluating clinical infections in these complex and interesting patients and formulating plans for workup and therapy. Students see consultations in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with infectious disease fellows, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics, antifungal and antiviral agents. A wide distribution of infectious diseases is covered including management of neutropenic fever, invasive fungal infections in the transplant population, acute and chronic infections, infection prophylaxis and monitoring and interactions between immunosuppressive agents and antibiotics.

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

M25 Medicine 859 General Inpatient Infectious Disease
Study of patients with infectious diseases, including inpatient care of HIV-infected patients and general infectious disease consults. The elective is designed to teach students the fundamentals of evaluating clinical problems in infection and formulating plans for workup and therapy. Students see consultations in infectious diseases in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with medical residents and infectious disease fellows, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics, antifungal and antiviral agents. A wide distribution of infectious diseases is covered including community-acquired acute and chronic infections, opportunistic infections in HIV-infected patients, hospital-acquired infections, and basic infection control practices. This is a four-week rotation. Two-week rotations are allowed, but must be done in conjunction with two weeks of Transplant Infectious Disease or Bone and Joint Infectious Disease.

M25 Medicine 861 Oncology - Inpatient
Medical Oncology is a complex subspecialty that is undergoing a rapid evolution as a result of new systemic treatment approaches that stem from biological insights into the nature of cancer. During the course of the elective, medical students will be able to interact with attending physicians and to participate in the care of patients with solid tumors. At the end of the rotation the students will appreciate the principles of our approach to cancer patients and should have gained insights into the pharmacological basis for systemic cancer treatment. The ethical and medical challenges of caring for patients with advanced incurable malignancies will also be an important theme, as well as the conduct of clinical research in this patient population. Students will learn to care for hospitalized patients suffering from complications due to cancer treatment. Oncologic emergencies will be covered. Issues such as palliative care treatment options and end-of-life decision making will be explored as well.

M25 Medicine 862 Inpatient Internal Medicine/Oncology - Firm
Medical Oncology is a complex subspecialty that is undergoing a rapid evolution as a result of new systemic treatment approaches that stem from biological insights into the nature of cancer. During the course of the elective, medical students will be able to interact with attending physicians and to participate in the care of patients with solid tumors. At the end of the rotation the students will appreciate the principles of our approach to cancer patients and should have gained insights into the pharmacological basis for systemic cancer treatment. The ethical and medical challenges of caring for patients with advanced incurable malignancies will also be an important theme, as well as the conduct of clinical research in this patient population. Students will learn to care for hospitalized patients suffering from complications due to cancer treatment. Oncologic emergencies will be covered. Issues such as palliative care treatment options and end-of-life decision making will be explored as well. Major learning goals: (1) Become familiar with frequent complications of cancer treatment such as neutropenic fever, nausea/vomiting, diarrhea, infectious complications and their management. (2) Become familiar with oncologic emergencies (spinal cord compression, hypercalcemia, neutropenic sepsis) and their management. (3) Become more comfortable interacting with patients and families requiring difficult psychosocial and end-of-life discussions.

M25 Medicine 863 Emergency Ultrasound
This rotation will focus on ultrasound and all of its many applications and uses in the Emergency Department. Students will participate in the performance of bedside ultrasound of patients in the Emergency Department. Common applications of emergency ultrasound include the FAST exam, pelvic ultrasound, Abdominal Aortic Aneurysm (AAA), vascular access, renal, gallbladder, and DVT. In general, the student will be in the Emergency Department during weekdays to perform these exams. Students will not be involved in direct patient care during this rotation. Students will have access to a lecture bank of the common applications. In addition, the student will meet with the ultrasound director 1-2 times/wk to review images and have direct hands-on instruction. At the end of the rotation the student should have gained the knowledge of basic emergency
ultrasound including its indications and applications; as well as becoming more adept at the performance of ultrasound.

M25 Medicine 865 Intensive Care Medicine
This elective in intensive care is offered in the Intensive Care Unit at Barnes-Jewish Hospital, South Campus. This unit has 16 intensive care beds providing intensive nursing care and life-support technology. The patients represent a mixture of patients with primarily medical problems. Patient care responsibility includes night call. In addition to patient responsibility, there are regularly scheduled conferences and attending rounds.

M25 Medicine 867 Medical Intensive Care
This elective is offered as an opportunity to gain additional experience in acute, primary care medicine. The elective is an advanced course in patient care involving complex medical problems. Responsibilities involve working up new patients with the MICU team, case presentations and attendance at conferences. Conferences consist of attending rounds Monday through Saturday, and 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 attending rounds. They will also participate in case conferences and seminars on a weekly basis. Extensive interaction with patients with diabetes and a diabetes education program are included, as is involvement with patients with thyroid, pituitary, adrenal, gonad, metabolic bone disease, and lipid disorders. Ample opportunities will be provided for discussions of patient problems with the members of the division. A variety of outpatient clinics are offered in the division, and interested students should speak with the fellows and faculty members to customize the learning experience to match their career goals. At the end of the rotation, it is expected that students will have the ability to initiate inpatient and outpatient management of diabetes including insulin dosing and glucose monitoring, as well as evaluate and treat a variety of endocrine disorders including but not limited to thyroid, pituitary, and adrenal disease. Students will learn to perform effective inpatient and outpatient consultations.

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

M25 Medicine 877 Intensive ECG Interpretation
The student, during the two-week elective, will read 20-25 ECGs obtained from the Barnes-Jewish Heart Station and then overread by an experienced electrocardiographer. There will also be didactic sessions covering infarction, ventricular hypertrophy, heart block, arrhythmias, and aberrant conduction.

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

Clinical cardiology with some internal medicine in a rural setting.

M25 Medicine 887 Clinical Cardiovascular Medicine
Clinical cardiology with some internal medicine in a rural setting. Inpatient and outpatient care. Diagnostic testing. Device implants.

M25 Medicine 885 Occupational/Environmental Medicine
This elective is designed to introduce students to research and practice in the prevention of work-related injuries and illnesses, and prevention of health effects related to environmental exposures. Preventive activities will include work site visits and intervention projects, as well as involvement with work site health promotion and policy making. Research projects involve epidemiology and intervention projects in work-related injury and musculoskeletal disorders. Specific activities are flexible depending on the students' interests. Students may elect to participate in the Interdisciplinary Environmental Clinic at Washington University. Based in the law school, the clinic involves interdisciplinary teams of students (law, engineering, environmental science) taking principal responsibility, under faculty supervision, for cases and projects on behalf of environmental and community organizations. The medical student(s) assist clinic students by evaluating the human health impacts involved in one or more of the clinic's cases, and presenting such information to the client organization(s) and others. Among the cases on which medical students might participate are: (1) air pollution associated with factories in the St Louis metropolitan area; (2) lead poisoning of children and adults in St. Louis and surrounding towns; (3) air and water pollution caused by concentrated animal feeding operations (factory farms) in Missouri. Students choosing this option will work with the Environmental Clinic staff and with Dr. Evanoff to evaluate and present evaluations of human health impacts of environmental exposures.

M25 Medicine 884 Bone Marrow Transplantation and Stem Cell Biology
Intense four-week clinical rotation exposing interested fourth-year medical students to the clinical world of bone marrow transplantation and to the basic science of hematopoiesis, leukemia, and stem cell biology. Students will be primarily responsible for the care of autologous and allogeneic BMT recipients and those patients being treated for a variety of hematologic malignancies such as AML, ALL, multiple myeloma and non-Hodgkin's lymphoma. In addition they will be exposed to methods of stem cell harvest, cryopreservation and immunophenotyping. This rotation plans to provide motivated students with an ideal mix of clinical medicine and basic science.

M25 Medicine 882 Pulmonary Medicine - VA Hospital
Students will participate in several ambulatory care activities of the Pulmonary Section, including outpatient consultations of common respiratory disorders such as COPD, obstructive sleep apnea, lung cancer and tuberculosis, and follow-up of primary care patients with pulmonary disease. In addition, students will work in medical intensive care units, interpret pulmonary function tests, participate in bronchoscopy and attend scheduled teaching conferences of the Pulmonary Division.

M25 Medicine 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 889 Clinical Nephrology
Students rotate through inpatient and outpatient experiences to gain exposure to all facets of nephrology. They will spend time the majority of their time on an inpatient consult service, gaining exposure to acute and chronic renal failure, glomerulonephritis, and electrolyte disorders. During this time, they will serve as a fully integrated member of the consult team, evaluating underlying causes of kidney disease, performing diagnostic procedures, formulating management plans, and engaging in decision-making discussions with primary services and families. In addition, students will have the opportunity to experience ICU nephrology, the transplant service, the various CKD clinics, and all modalities of dialysis, including in-center, home, and peritoneal dialysis.

M25 Medicine 890 Clinical Nephrology
Students will participate in the allergy consult service at Barnes-Jewish Hospital, North and South Campus. The student will serve as the primary allergy consult for inpatient and Emergency Room consultation and present each patient to the allergy fellows on call and the attending physician. Students will attend The Adult Allergy Clinic, Pediatric Allergy Clinic, and the outpatient clinics at The Asthma & Allergy Center at Barnes-Jewish West County Hospital. Conferences on selected topics in allergy and clinical immunology will be held with the attending staff two to three afternoons a week.

M25 Medicine 893 Adult Allergy and Clinical Immunology
Students will participate in the allergy consult service at Barnes-Jewish Hospital, North and South Campus. The student will serve as the primary allergy consult for inpatient and Emergency Room consultation and present each patient to the allergy fellows on call and the attending physician. Students will attend The Adult Allergy Clinic, Pediatric Allergy Clinic, and the outpatient clinics at The Asthma & Allergy Center at Barnes-Jewish West County Hospital. Conferences on selected topics in allergy and clinical immunology will be held with the attending staff two to three afternoons a week.

M25 Medicine 888 Pulmonary Medicine - VA 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 887 Clinical Cardiovascular Medicine

M25 Medicine 886 Clinical Cardiology

M25 Medicine 885 Occupational/Environmental Medicine
This elective is designed to introduce students to research and practice in the prevention of work-related injuries and illnesses, and prevention of health effects related to environmental exposures. Preventive activities will include work site visits and intervention projects, as well as involvement with work site health promotion and policy making. Research projects involve epidemiology and intervention projects in work-related injury and musculoskeletal disorders. Specific activities are flexible depending on the students' interests. Students may elect to participate in the Interdisciplinary Environmental Clinic at Washington University. Based in the law school, the clinic involves interdisciplinary teams of students (law, engineering, environmental science) taking principal responsibility, under faculty supervision, for cases and projects on behalf of environmental and community organizations. The medical student(s) assist clinic students by evaluating the human health impacts involved in one or more of the clinic's cases, and presenting such information to the client organization(s) and others. Among the cases on which medical students might participate are: (1) air pollution associated with factories in the St Louis metropolitan area; (2) lead poisoning of children and adults in St. Louis and surrounding towns; (3) air and water pollution caused by concentrated animal feeding operations (factory farms) in Missouri. Students choosing this option will work with the Environmental Clinic staff and with Dr. Evanoff to evaluate and present evaluations of human health impacts of environmental exposures.