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
Phone: 314-362-8070
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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 (B-islet cells and adrenal chromaffin cells) examined using single-cell assays of secretion (capacitance measurements, amperometry).

Ginger E. Nicol, MD  
4412 Renard Building  
Phone: 314-362-5939

Clinical research concerning substrate (glucose and lipid) metabolism and the regulation of weight and body composition in persons with mental illness, particularly concerning the effect of psychotropic medications. This elective offers the student a broad exposure to clinical research protocols, including protocols in adults and children. Students will have an opportunity to focus on a particular project of interest.

Amit Noheria, MBBS, SM  
Northwest Tower, 13th Floor  
Phone: 314-249-7352

Clinical Outcomes in Patients with Cardiac Implantable Electronic Devices: Clinical research to evaluate outcomes in patients with cardiac implantable electronic devices (CIEDs).

1. Risk of stroke in patients with patent foramen ovale and CIEDs.
2. Predictors of hemodynamically unstable ventricular arrhythmias in patients with left ventricular assist devices (LVADs).

Richard E. Ostlund, MD  
8804 Wohl Hospital  
Phone: 314-362-8286

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

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

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

Katherine Ponder, MD  
8818 Cancer Science Research Building  
Phone: 314-362-5188  
Email: kponder@wustl.edu

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

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

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

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

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

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

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

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

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

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

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

### Primary Care Summer Preceptorships

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

### Faculty

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

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

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

**Robert 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

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

A

Eva Marie Aagaard, MD
Professor of Medicine (primary appointment)
Sr Associate Dean for Education
BA University of CA Santa Barbara 1991
MD Cornell University 1995

Elliot Efrem Abbey, MD
Professor of Clinical Medicine (primary appointment)
BA Cornell University 1971
MD New York University 1975

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Professor of Medicine (primary appointment)
MD American University of Beirut 1974
BS American University of Beirut 1970

Basem Abdeen, MD
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MD University of Jordan 2001

Khaled M Abdel-Hamid
Instructor in Clinical Medicine (primary appointment)

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Associate Professor of Medicine (primary appointment)
Associate Professor of Cell Biology and Physiology
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MS University of Paris 2009
MS University of Nice 2008
PHD University of Nice 2013

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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)
MD Washington Univ in St. Louis 1975
BS University of Illinois 1971

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
Marc Jordan Bernstein, MD
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BA Haverford College 1988
MD Washington Univ in St. Louis 1992

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

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

Amit Indra Bery, MD
Instructor in Medicine (primary appointment)
MD Guntur Medical College 2007

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

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)
BA Rockford College 1974
MD University of Illinois 1978

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

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

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

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

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

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

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)
PHD Banaras Hindu University 1999
MS Banaras Hindu University 1992
BS Tilka Manjhi Bhagalpur Univ 1988

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

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

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

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)
BS Washington Univ in St. Louis 2010
MD Temple University 2014

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

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

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

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

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

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

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

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

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

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

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

Thomas J. Brett, PHD
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Associate Professor of Biochemistry and Molecular Biophysics
Associate Professor of Cell Biology and Physiology
BS North Dakota State University 1992
PHD University of Nebraska 1999

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Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2007
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Dorothy R and Hubert C Moog Professor of Pulmonary Diseases in Medicine (primary appointment)
Professor of Radiology
MD University of Michigan 1980

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Instructor in Pediatrics
PHD Washington Univ in St. Louis 2009
BA Sweet Briar College 2003

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Associate Professor of Emergency Medicine in Medicine (primary appointment)
MD Georgetown University 1982

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BA Southern Methodist University 1987
MD Washington Univ in St. Louis 1992

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PHD Washington Univ in St. Louis 1989
MD Washington Univ in St. Louis 1990
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David L. Brown, MD
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BA University of Texas Austin 1977

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Professor of Cell Biology and Physiology
Professor of Pathology and Immunology
BS University of Washington 1968
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MD Saint Louis University 1981
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MD Washington Univ in St. Louis 1977
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MD Vanderbilt University 2007
BS1 Brigham Young University 1998
PHD Vanderbilt University 2003
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Associate Professor of Emergency Medicine in Medicine
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MD Medical University of Sth Car 1978

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Instructor in Medicine (primary appointment)
BS Southwestern University 2008
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David B Carr, MD  
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Alan A and Edith L Wolff Distinguished Professor of Geriatric Medicine  
Professor of Neurology  
BA University of MO Columbia 1981  
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Scott Carrizales, MD  
Assistant Professor of Medicine (Dermatology) (primary appointment)  
MD Uniformed Serv U of Health Sciences 1996  
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Assistant Professor of Surgery (Public Health Sciences)  
MD University of Southern Calif 2000  
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BS1 Yale University 1995  

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

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MD University of Missouri 1990  
BA Saint Louis University 1986  

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MD Vanderbilt University 1994  
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PHD University of Queensland 2006  

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BS Truman State University 2000  
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MD Northwestern University 2013  
BA Northwestern University 2009  

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BA Washington Univ in St. Louis 1991  
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MD Texas Tech University 2009  

Douglas Char, MA, MD  
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MA Boston University 1985  
MD University of Hawaii 1989  
BS Boston College 1983  

Sirot Charnond, MD  
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BA University of MO Kansas City 1995  
MD University of MO Kansas City 1995  

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

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Qing Chen, MS, UNKNOWN, MD  
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MS Nanjing Medical University 1988  
UNKNOWN School Not Listed 1983  
MD Nanjing Medical University 1983  

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

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PHD Peking Union Medical College, 2002  

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PHD Johns Hopkins University Medic 1999  
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MD Washington Univ in St. Louis 2012  
BS University of Michigan 2003  
PHD Washington Univ in St. Louis 2012  

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Instructor in Clinical Medicine (primary appointment)  

MD Northwestern University Med 1992

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

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

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MD Shanghai Medical University 1996
PHD Vanderbilt University 2004

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Instructor in Medicine (primary appointment)
BS Vanderbilt University 2010

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MD Saint Louis University 2005

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

**Praveen R Chenna, MBBS**
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MBBS Sri Ramachandra Medical Coll 2005

**Cynthia Cherfane, MD**
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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
AA Washington Univ in St. Louis 2007
BS Washington Univ in St. Louis 2007

**Phillip Ruben Chisholm**
Instructor in Clinical Medicine (primary appointment)

**Jaebok Choi, PHD, MS, BE**
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PHD Baylor University 2006
MS Univ of Nebraska at Omaha 2001

**BE Kyung Pook National University 1996**

**Courtney Darcey Chrissler, MD**
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BS Northwestern University 2003

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PHD Washington Univ in St. Louis 2010
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BA Saint Louis University 1993

**George P Christphi, PHD, MD**
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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**
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MD Oregon Health Science Univers 2010

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

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

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

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

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BA University of Missouri 1973
MD Saint Louis University 1977

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Associate Director of the House Staff Training Program,
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MD Ohio State University 1975
BS Ohio State University 1972

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Brian G Cohn, MD
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BS Northwestern University 1986
MD University of Illinois 1991

Patricia L Cole, MD, MA
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MD Harvard University 1981
MA Brown University 1975
BA Mount Holyoke College 1972

Danita L Cole, MD
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BA University of MO Kansas City 1990

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

Sarah F Cole
Instructor in Clinical Medicine (primary appointment)

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

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

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)
MD Loyola University Chicago 2003
BS Washington Univ in St. Louis 1999

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

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

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BA Saint Louis University 1974

Carrie Christine Coughlin, MD
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Assistant Professor of Pediatrics
BA Yale University 2005
MD Washington Univ in St. Louis 2010

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BA Saint Louis University 1979
MD Case Western Reserve Univ 1983

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Assistant Professor of Cell Biology and Physiology
PHD Northwestern University 2007
BS Beloit College 2003

Johnetta M Craig, MBA, MD
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MBA University of Pennsylvania 1994
BS University of Missouri 1980
MD University of Iowa 1986

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

Charles Crecelius, PHD, MD
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Affiliation</th>
<th>Degree</th>
<th>Other Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sharon Cresci, MD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>MD Saint Louis University 1984</td>
<td>BA Carleton University 1976, MD Saint Louis University 1984</td>
<td></td>
</tr>
<tr>
<td>Stephen R Crespin, MD</td>
<td>Associate Professor of Clinical Medicine (primary appointment)</td>
<td>BS State Univ of NY Binghampton 1982, MD New York University 1986</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jeffrey S Crippin, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>MD University of Kansas 1984, BS University of Notre Dame 1980</td>
<td></td>
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</tr>
<tr>
<td>Paulina Cruz Bravo, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD Universidad Automa de Madrid 2009</td>
<td></td>
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<tr>
<td>Philip E Cryer, MD</td>
<td>Professor Emeritus of Medicine (primary appointment)</td>
<td>Adjunct Professor of Medicine</td>
<td>MD Northwestern University Med 1965, BA Northwestern University 1962</td>
<td></td>
</tr>
<tr>
<td>Phillip S. Cuculich, MD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>MD Vanderbilt University 2001</td>
<td></td>
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</tr>
<tr>
<td>Robert Culverhouse, MA, PHD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>Associate Professor of Biostatics</td>
<td>BA Vanderbilt University 1983, MA University of CA Berkeley 1987, PHD Washington Univ in St. Louis 1998</td>
<td></td>
</tr>
<tr>
<td>Lenise Andrea Cummings-Vaughn, MD, MS</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>BS Williams College 1995, MD Saint Louis University 2005, MS San Francisco St University 1998</td>
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</tr>
<tr>
<td>Robert B Cusworth, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD University of Rochester 1974</td>
<td></td>
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</tr>
<tr>
<td>Ann Marie Dale, PHD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>Associate Professor of Occupational Therapy</td>
<td>PHD Saint Louis University 2009, BS University of MO Columbia 1983</td>
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<th>Affiliation</th>
<th>Degree</th>
<th>Other Information</th>
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</thead>
<tbody>
<tr>
<td>William H Danforth, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>VICE CHANCELLOR AND CHANCELLOR EMERITUS</td>
<td>MD Harvard University 1951, BA Princeton University 1947</td>
<td></td>
</tr>
<tr>
<td>Erik D. Daniels, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Howard University 1989, BS Howard University 1985</td>
<td></td>
<td></td>
</tr>
<tr>
<td>John S Daniels, MD, MA</td>
<td>Associate Professor of Clinical Medicine (primary appointment)</td>
<td>MD University of Arkansas 1974, BA Washington Univ in St. Louis 1970, MA University of Arkansas 1974</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peter G Danis</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>BA University of Pennsylvania 1974, MD Baylor University 1978</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rand E Dankner, MD</td>
<td>Associate Professor of Clinical Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1999, BA Princeton University 1989</td>
<td></td>
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</tr>
<tr>
<td>Maria Cristina Dans, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1999, BA Princeton University 1989</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bhajan Shewaldas Dara, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Sindh Medical College 1987</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lakshman Darsi, MBBS</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Vanderbilt University 1983</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sundeep Das, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD University College of Med Sci 1986</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Koushik Kumar Das, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Columbia University 2016</td>
<td></td>
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</tr>
<tr>
<td>Carlos Colton Daughaday, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1971, BA Harvard University 1967</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nicholas O Davidson, MBBS</td>
<td>Professor of Medicine (primary appointment)</td>
<td>MD Vanderbilt University 1983</td>
<td></td>
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</tr>
<tr>
<td>John D Davidson, MD</td>
<td>Professor of Clinical Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1948, MD Washington Univ in St. Louis 1952</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Victor G Davila-Roman, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>VICE CHANCELLOR AND CHANCELLOR EMERITUS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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Rowena Bayudan Delos Santos, MD
Assistant Professor of Medicine (primary appointment)
MD Creighton University 2004
BS Creighton University 2000

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

David G. DeNardo, PHD
Associate Professor of Medicine (primary appointment)

Associate Professor of Pathology and Immunology
BS Willamette University 1999
PHD Baylor University 2005

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

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

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

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

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

Michael D DeVita, MD
Assistant Professor of Medicine (primary appointment)
BS University of Wisconsin 2006
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
MD Harvard University 1994
BA Columbia College 1985

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

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

Kathryn M Diemer, MD
Associate Professor of Medicine (primary appointment)
Assistant Dean for Career Counseling
BA University of Missouri 1984
MD University of Missouri 1985
Li Ding, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Genetics
PHD University of Utah 1998

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

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

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

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

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

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

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

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

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

Erik R Dubberke, MPH, MD
Associate Professor of Medicine (primary appointment)
MPH Saint Louis University 2008

MD University of Illinois 1999
BA Augustana University College 1995

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

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

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

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

Edward Harry DuMontier
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

Stilianos Efstratiadis
Assistant Professor of Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

F

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

Mitch N Faddis, MD, PHD
Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1993
Akinrinola Fatoki, MS
Instructor in Clinical Medicine (primary appointment)
BS School Not Listed 1982
MS School Not Listed 1989

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

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

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

Brian N. Finck, PHD, MS
Associate Professor of Medicine (primary appointment)
PHD University of Illinois 2000
BS University of Illinois 1994
MS University of Illinois 1996

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Jeffrey Friesen, MD
Instructor in Medicine (primary appointment)
MD University of CA Irvine 2014

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

Brian R. Froelke, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
Michael Paul Fuller, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Brigham Young University 1990
MD University of Utah 1994

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

Suzanne Furesz
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

Francisco J Garriga, MD
Instructor in Clinical Medicine (primary appointment)

BS University of Puerto Rico 1966
MD Washington Univ in St. Louis 1970

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

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

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

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

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

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

Mate Gergely, MD
Instructor in Medicine (primary appointment)
MD University of St. Louis 2010
MD Texas A&M University 2014

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

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

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

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

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

Gardar T Gislason
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Aaron Greenspan
Instructor in Clinical Medicine (primary appointment)

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

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

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

Malachi Griffith, BS1, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Genetics
Reena Gurung, MD  
Instructor in Medicine (primary appointment)  
MD Kathmandu University 2007

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

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

H

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

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

Jennifer Christine Hagopian  
Adjunct Instructor in Medicine (primary appointment)

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

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

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

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

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

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

Zahirul Haque
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

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

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

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

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

Daniel Robert Herleth
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

Elizabeth Hilliker, MA, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MA Washington Univ in St. Louis 1970
BA Washington Univ in St. Louis 1965
MD Washington Univ in St. Louis 1970
Paul Flack Hintze, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Utah 1978
BS Brigham Young University 1974
Angela Christine Hirbe, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 2009
BS Washington Univ in St. Louis 2001
PHD Washington Univ in St. Louis 2009
Grant S. Hoekzema, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1992
J. Langston Hoffman, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1999
BS Univ of Wisconsin Madison 1994
Sandra S Hoffmann, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Kansas 1976
BA University of Kansas 1972
Melissa Louise Hollie
Instructor in Clinical Medicine (primary appointment)
Christopher Vincent Holthaus, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Saint Louis University 2000
Michael J Holtzman, MD
Selma and Herman Seldin Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
MD Northwestern University 1975
BA Northwestern University 1971
Neal Holzum
Instructor in Clinical Medicine (primary appointment)
Hitoshi Honda
Adjunct Assistant Professor of Medicine (primary appointment)
Bruce Jay Hookerman, MD
Assistant Professor Emeritus of Clinical Medicine (Dermatology) (primary appointment)
MD Saint Louis University 1968
BA Dartmouth College 1964
Barbra A Horn, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1982
BA Clark University 1975
Ian Kerst Hornstra, PHD, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
PHD University of Florida 1993
MD University of MO Kansas City 1986
BA University of MO Kansas City 1985
Timothy Adam Horwedel, PHD
Adjunct Instructor in Medicine (primary appointment)
PHD Northeastern University 2008
Jianghui Hou, PHD, MS
Associate Professor of Medicine (primary appointment)
PHD Edinburgh University 2003
MS Edinburgh University 2000
BS Nanjing University 1999
Dennis Emil Hourcade, MA, PHD
Professor of Medicine (primary appointment)
BS Mass Inst of Technology (MIT) 1971
MA Harvard University 1974
PHD Harvard University 1978
Stacey L House, PHD, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
PHD University of Cincinnati 2005
BS Yale University 1999
MD University of Cincinnati 2007
Jacqueline Howard, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN School Not Listed 1995
Randall A Howell, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BS Kansas State University 1974
MD Kansas State University 1978
David Thomas Howell
Instructor in Clinical Medicine (primary appointment)
James J Hsieh, PHD, MD
Professor of Medicine (primary appointment)
PHD John Hopkins University 1995
MD Taipei Medical University 1990
Chyi-Song Hsieh, PHD, MD
Associate Professor of Medicine (primary appointment)
Alan A and Edith L Wolff Distinguished Professor
Associate Professor of Pathology and Immunology
PHD Washington Univ in St. Louis 1996
MD Washington Univ in St. Louis 1996
Fong Fu Hsu, PHD, MS
Professor of Medicine (primary appointment)
BS School Not Listed 1970
PHD University of Utah 1986
MS Tsinghua University, China 1975
Kevin Hsueh, MD, BS1
Assistant Professor of Medicine (primary appointment)
BS Williams College 2003
MD New York University 2008
BS1 Williams College 2003

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Morris Joftus, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD University of Illinois 1967  
Eric Keith Johnson, MD  
Instructor in Medicine (primary appointment)  
MD Univ of Wisconsin Madison 1999  
William F Johnson  
Adjunct Instructor in Medicine (primary appointment)

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

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

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

Sona Sharad Kamat
Instructor in Clinical Medicine (primary appointment)

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

Patricia F Kao, BE, MD, MS2
Associate Professor of Medicine (primary appointment)
BE Princeton University 1994
MD Case Western Reserve Univ 2001
MS2 Ohio State University 1997

Robert S Karsh, MD
Professor of Clinical Medicine (primary appointment)
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, MS, MD
Instructor in Medicine (primary appointment)
BS Kakatiya Medical College 2004
MS Eastern Kentucky University 2010
MD Saint Louis University 2011

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

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

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

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

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

Sona Sharad Kamat
Instructor in Clinical Medicine (primary appointment)

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, BE, MD, MS2
Associate Professor of Medicine (primary appointment)
BE Princeton University 1994
MD Case Western Reserve Univ 2001
MS2 Ohio State University 1997

Robert S Karsh, MD
Professor of Clinical Medicine (primary appointment)
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, MS, MD
Instructor in Medicine (primary appointment)
BS Kakatiya Medical College 2004
MS Eastern Kentucky University 2010
MD Saint Louis University 2011

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

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

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

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

Elizabeth Jane Keath, PHD
Assistant Professor of Medicine (primary appointment)
BA University of MO St Louis 1978
BA University of MO St Louis 1978
MD University of California 1990  
BA University of California 1985  

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

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

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

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

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

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

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Instructor in Clinical Medicine (Dermatology) (primary appointment)  
MD Washington Univ in St. Louis 2001  
BA Southern Methodist University 1997  

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

Donald Kevin King, MD  
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MD Johns Hopkins University Medic 1970  
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Tina P King  
Instructor in Clinical Medicine (primary appointment)  
BA University of Missouri 1988  

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

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PHD University of Kansas 2004  
BS Drury College 1999  
MS University of Kansas 2001  

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MD King Edward Medical College 1973  

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MD Jefferson Medical College 2008  

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PHD University of MO St Louis 2008  
BA Southern Illinois University 1979  
MS University of Texas Austin 1987  

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MD Harvard University 1960  
BA Yale University 1956  

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Professor of Cell Biology and Physiology  
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BA Brandeis University 1974  
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Professor of Pathology and Immunology  
Vice Provost and Assoc Dean of Graduate Medical Education  
PHD Albert Einstein College of Med 1993  
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MS Albert Einstein College of Med 1990  

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PHD Emory University 2011
BS Drake University 2006

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MD Saint Louis University 2002

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MPH Louisiana State University 2004
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BS University of New Orleans 2000

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PHD School Not Listed 1985

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BS US Military Academy 1979
MD University of Rochester 1983

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BA University of Notre Dame 1980

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BS Emory University 1978

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Professor of Biomedical Engineering
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BS Cornell University 1969
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BS School Not Listed 1981
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Instructor in Clinical Medicine (primary appointment)
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BA Amherst College 1987

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BS University of Michigan 1962

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PHD McGill University 1982
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PHD Washington Univ in St Louis 2014
BS University of Illinois 2006

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Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1986
BS University of Illinois 1982

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MD University of Illinois 1964

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BS Emory University 1998
MD Emory University 2002

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Associate Professor of Molecular Microbiology
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BS University of Georgia 1992
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MD Washington Univ in St. Louis 2000
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MD University of Arkansas 2001
BA Hendrix College 1997

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Professor of Medicine (primary appointment)
MD New York Medical College 1984
MEE Princeton University 1980
BS Mass Inst of Technology (MIT) 1979
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Assistant Professor of Medicine (primary appointment)
BS University of Utah 2002
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Assistant Professor of Medicine (primary appointment)
DOST Chicago Coll of OsteopathicMed 2009
BS Univ of IL -Urbana-Champaign 2005
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Assistant Professor of Medicine (primary appointment)
PHD University of New Mexico 2007
MD University of Ghana Medical Sc 1998
MS University of Ghana Medical Sc 2003

L

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

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Instructor in Clinical Medicine (primary appointment)
MS Osmania Medical College 1971

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Instructor in Medicine (primary appointment)
MS1 University of Notre Dame 2012
PHD University of Notre Dame 2014

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Assistant Professor of Medicine (primary appointment)
BA Colgate University 1995
MD Drexel University 2004
MS John Hopkins University 2000

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

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Oliver M Langenberry 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
MD Northwestern University 1992
PHD University of Georgia 1981
MS University of Georgia 1978

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

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

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

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

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

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

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

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

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

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

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

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

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

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

MD University of Miami 1976

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

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

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

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

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

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

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

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

**Kian-Huat Lim, PhD, MD**
Assistant Professor of Medicine (primary appointment)
PHD Duke University 2006
MD National Taiwan University 1999

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

**Kathryn Jesseca Lindley, MD**
Assistant Professor of Medicine (primary appointment)
BS University of Illinois 2003
MD Emory University 2007

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

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

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

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

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

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

Adam Daniel Littich, MD
Instructor in Medicine (primary appointment)
MD Saint Louis University 2009

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

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

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

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

Amy Loden, MD
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MD University of MO Columbia 2010

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

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Instructor in Clinical Medicine (primary appointment)
BA Webster University 1976
MD Washington Univ in St. Louis 1982

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

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

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MD University of MO Kansas City 1985
BA University of MO Kansas City 1985

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

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

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

Kenneth M Ludmerer, MD, MA
Professor of Medicine (primary appointment)
Mabel Dorn-Reeder Distinguished Professor of the History of Medicine
BA Harvard University 1968
MD Johns Hopkins University 1973
MA Johns Hopkins University 1971

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

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

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Assistant Professor of Medicine (primary appointment)
MD University of Iowa 1999
MLS Indiana University Bloomington 1983
John P Lynch, MD  
Professor of Medicine (primary appointment)  
BA Saint Louis University 1983  
MD Georgetown University 1989  
Christopher Raymond Lynch  
Instructor in Clinical Medicine (primary appointment)  
Alan P Lyss, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1972  
MD Washington Univ in St. Louis 1976  
Carl A Lyss, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1956  
BS Washington Univ in St. Louis 1952  
BA Washington Univ in St. Louis 1952  
M  
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Associate Professor of Medicine (Dermatology) (primary appointment)  
Associate Professor of Developmental Biology  
BA University of CA Berkeley 1989  
PHD University of CA Los Angeles 1995  
Cynthia Xiuguang Ma, MD, PHD  
Associate Professor of Medicine (primary appointment)  
MD Beijing Medical University 1990  
PHD University of Cincinnati 1997  
Ningning Ma, MD  
Instructor in Medicine (primary appointment)  
MD Case Western Reserve Univ 2013  
BA Washington Univ in St. Louis 2009  
Jessica E Ma, MD  
Instructor in Medicine (primary appointment)  
MD Texas A&M University 2014  
Hongming Ma, PHD, MS  
Instructor in Medicine (primary appointment)  
PHD Ocean University of China, Qin 2004  
MS Fudan University 1996  
BA Qufu Normal University 1993  
Julie Kathleen MacPhee, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Albert Einstein College of Med 2008  
BS Trinity College 2003  
Thomas M Maddox, MD, MS  
Professor of Medicine (primary appointment)  
BA Rice University 1993  
MD Emory University 1999  
MS Harvard University 2007  
Blair B Madison, PHD  
Assistant Professor of Medicine (primary appointment)  
BS Washington Univ in St. Louis 1998  
PHD University of Michigan 2005  
William Edwin Magee, MD  
Associate Professor of Clinical Medicine (primary appointment)  
MD Duke University 1950  
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Assistant Professor of Medicine (primary appointment)  
BA1 Cornell College 1995  
PHD Saint Louis University 2001  
BA Cornell College 1995  
Jambunathan Mahadevan  
Instructor in Clinical Medicine (primary appointment)  
Christopher A Maher, PHD  
Assistant Professor of Medicine (primary appointment)  
Assistant Director of The Genome Institute  
PHD Stony Brook School of Medicine 2006  
Nicole Maher, PHD  
Instructor in Medicine (primary appointment)  
PHD Case Western Reserve Univ 2007  
BA Ithaca College 1998  
Mohamed Mahjoub, PHD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Cell Biology and Physiology  
PHD Simon Fraser University 2007  
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  
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Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
MD Saint Louis University 1998  
BS Washington Univ in St. Louis 1986  
PHD Washington Univ in St. Louis 1994  
BA Washington Univ in St. Louis 1986  
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Professor of Medicine (primary appointment)  
MD Univ of Panama School of Med 1984  
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MD University of Illinois Chicago 2014  
BS University of Notre Dame 2010  
Mohsin Ilyas Malik, MBBS  
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MBBS Army Medical College 1999  
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MBChB1 Royal College of Surgeons 2005  
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MBBS Medical College of India 2004  
MD University of Illinois 2011

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MS Sarah Lawrence College 1988  
MD Indiana University Bloomington 1993  
BS Indiana University Bloomington 1986

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Tobias and Hortense Lewin Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
MD Temple University 1979  
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Instructor in Medicine (primary appointment)  
MD Tishreen Univ College of Med 2010

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BA Barnard College 1984

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BA De Paul University 1968  
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BS University of Notre Dame 1977

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

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Associate Professor of Medicine (primary appointment)  
BA University of Kansas 1973  
MD University of Kansas 1977

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

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Instructor in Clinical Medicine (primary appointment)  
MD Emory University 1975

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MBA Washington Univ in St. Louis 1999  
MD Washington Univ in St. Louis 1994  
BS University of Illinois 1990

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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)  
MBBS Kerala University 1991

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PHD University of Melbourne 2000  
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BS Northeast Missouri St Univrsty 1981  
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BA St Edwards University 1979

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BS American University of Beirut 2006  
MD American University of Beirut 2010

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MD Washington Univ in St. Louis 1975  
BS University of Illinois 1971

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MD American Univ of the Caribbean 1984  
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MD Washington Univ in St. Louis 2014  
BA Agnes Scott College 2005  
PHD Washington Univ in St. Louis 2014  

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

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BS University of Kansas 2006  
PHD University of MO Columbia 2013  

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BS University of Pittsburgh 2002  
PHD Washington Univ in St. Louis 2013  
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BS1 University of Pittsburgh 2002  

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Instructor in Clinical Medicine (primary appointment)  
MD New York Medical College 2001  

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

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

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Assistant Professor of Medicine (primary appointment)  
MD University of Tennessee 2001  
BS Vanderbilt University 1997  

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

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BS University of Michigan 1972  
MD Michigan State University 1979  
MA Northern Michigan University 1980  

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MD School Not Listed 1981  
BA McGill University 1975  

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

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JD University of California 1974  
MD Washington Univ in St. Louis 1989  
BA University of California 1971  

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

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

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Assistant Professor of Medicine (primary appointment)  
MD Northwestern University Med 2009  
BA Northwestern University 2005  

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Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1991  

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BA University of Missouri 1972  
MD University of Miami 1977  

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BS School Not Listed 1970  
MD School Not Listed 1976  

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BS Roanoke College 2004  
MD Washington Univ in St. Louis 2009  

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

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MD University of Iowa 1999
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Instructor in Clinical Medicine (primary appointment)
MD Duke University 1982
BS University of Missouri 1978

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Instructor in Clinical Medicine (primary appointment)
BA Saint Louis University 1999
MD Saint Louis University 2003

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Professor of Medicine (primary appointment)
BS Stanford University 1986
MD Washington Uni in St. Louis 1990

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BS School Not Listed 1968

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Associate Professor of Pathology and Immunology
PHD University of California 1996
BS University of California 1991

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MD Harvard University 2000
BS Yale University 1994

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BS1 Truman State University 2005
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PHD Baylor University 2011

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Assistant Professor of Biomedical Engineering
BS North Carolina State Universit 2005
PHD Mass Inst of Technology (MIT) 2011

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Professor of Developmental Biology
Professor of Pathology and Immunology
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BA Washington Univ in St. Louis 1989
AB Washington Univ in St. Louis 1989
MD1 University of Pennsylvania 1997
PHD University of Pennsylvania 1997

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Instructor in Clinical Medicine (primary appointment)
MS University of the Witwatersra 1992
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BA Northwestern University 1985
PHD California Institute Technolo 1991

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Assistant Professor of Pathology and Immunology
BS Brigham Young University 2002
MD University of Oklahoma 2010
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PHD Wageningen University 2001

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PHD University of Texas Austin 1999
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MD Isfahan U of Medical Sciences 2004

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MD Case Western Reserve Univ 1972

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MD Univ Texas Health Science Ctr 2008
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BS Texas College 2007  
MD Washington Univ in St. Louis 2013  

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MD FTE Souza Marques 1995  

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MD University of Missouri 1993  
BA Benedictine College 1987  

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

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MD University of Wisconsin-Madiso 2013  
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Instructor in Clinical Medicine (primary appointment)  

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BA University of Nairobi 2003  
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PHD Saint Louis University 1992  
MS University of Missouri 1984  

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MD Vanderbilt University 2004  
BS College of William and Mary 1999  

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PHD Washington Univ in St. Louis 2009

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BS Gustavus Adolphus College 2003
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PHD Northwestern University 2002

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PHD University of Ibadan 1981
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MPH Saint Louis University 2001  
PHD University of Pennsylvania 1986  
BS Southern Illinois University 1976

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BA Washington Univ in St. Louis 1983  
MD Washington Univ in St. Louis 1987

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MD University of MO Columbia 2008  
BS Saint Louis University 2004

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

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MD University of Miami 1979  
BS Yale University 1975

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MD Washington Univ in St. Louis 1970  
BS Saint Louis University 1966

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Professor of Cell Biology and Physiology  
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Professor of Medicine (primary appointment)  
MD University of Utah 1970  
BS University of Utah 1966

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

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

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

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

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

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Assistant Professor of Medicine (primary appointment)  
MD Univ of Wisconsin Madison 2003  
BS Stanford University 1994

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Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1956  
BA Washington Univ in St. Louis 1953  
BS University of Missouri 1954

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

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

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

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

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

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

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

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

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

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Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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Professor of Computer Science and Engineering
Robert J Terry Professor
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MS Central Michigan University 1984
BFA Southern Methodist University 1977
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MD Washington Univ in St. Louis 2013

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

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MD University of California 1978

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BS University of Puerto Rico 1970
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MD University of Louisville 1974
BS Tulane University 1967

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

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BS University of Michigan 1999
PHD Mass Inst of Technology (MIT) 2010

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Assistant Professor of Medicine (primary appointment)
MD Tulane University 2006
BS Tulane University 2000

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BS Lawrence University 2003
PHD Emory University 2010

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Professor of Pathology and Immunology
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BS University of Florida 1981

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BS University of Oklahoma 2010
MD University of Oklahoma 2014

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Assistant Professor of Molecular Microbiology
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MD Washington Univ in St. Louis 1963
BA Ohio State University 1959

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

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MD Washington Univ in St. Louis 1988

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MD University of Missouri 2003

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BS Stanford University 1979
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Associate Professor of Clinical Medicine (primary appointment)
MD Saint Louis University 1979
BA Northwestern University 1975

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BS Harvard University 2007

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MD Washington Univ in St. Louis 2014
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PHD University of Toronto 1970
MD Washington Univ in St. Louis 1975
MS University of Toronto 1966
BS University of Toronto 1962

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

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MD University of Illinois 1989
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MS School Not Listed 1992

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MBBS Kilpauk Medical College 1990

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Associate Professor of Medicine (primary appointment)
BS Mysore University 1975
MS Andhra University 1977
PHD University of Bombay 1987

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Associate Professor of Surgery (General Surgery)
MD University of Verona 1991
BA University of Verona 1984

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Professor of Molecular Microbiology
BA Harvard University 1973
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MD Yale University 1979
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Assistant Professor of Pathology and Immunology
PHD Albert Einstein College of Med 2003
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PHD University of Iowa 2007

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BS Haverford College 1990  
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BS Tulane University 1962  
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BS Murray St University 1982  
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BS Johns Hopkins University 1979
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MD University of Illinois Chicago 2011
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Professor of Pediatrics
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BS Columbia University 1985
MD Mount Sinai School of Medicine 1989

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MD University of Rochester 1997
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MD Washington Univ in St. Louis 2008
BA Brown University 2000

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MD East Tennessee State Universi 2013

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MD University of Zulia 1974

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MD Washington Univ in St. Louis 1971

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BA Washington Univ in St. Louis 1994

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BS Saint Louis University 1977
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BS University of Palermo 1998
MS University of Padua 1998
BS University of Palermo 1998
MS University of Padua 1998
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Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1966

S

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MD Damascus University 2011

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M PH University North Carolina 2000
MD Duke University 2001

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Professor of Biochemistry and Molecular Biophysics
PHD Duke University 1978
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MD School Not Listed 2000

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BA Cornell University 2003

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PHD Emory University 2008  
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BS University of Washington 2001  
PHD University of Washington 2008

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

Karl Staser, MD, PHD
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phyllis K Stein, M ED, PHD</td>
<td>Associate Professor of Medicine</td>
<td>University of Virginia 1987, Barnard College 1962, University of Virginia 1990</td>
</tr>
<tr>
<td>Paul M Stein, MD</td>
<td>Professor of Clinical Medicine</td>
<td>Saint Louis University 1971, University of Rochester 1967</td>
</tr>
<tr>
<td>Richard Ian Stein, PHD</td>
<td>Associate Professor of Medicine</td>
<td>Arizona State University 2000</td>
</tr>
<tr>
<td>Emily Steiner, MD</td>
<td>Instructor in Medicine</td>
<td>Case Western Reserve Univ 2009, University of Toledo 2013</td>
</tr>
<tr>
<td>William F Stenson, MD</td>
<td>Dr Nicholas V Costrini Professor of Medicine</td>
<td>Washington Univ in St. Louis 1971, Providence College 1967</td>
</tr>
<tr>
<td>Barbara B Sterkel</td>
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<tr>
<td>Karin Sterl, MD</td>
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<tr>
<td>Kara Ellen Sternhell-Blackwell, MD, MA</td>
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</tr>
<tr>
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</tr>
<tr>
<td>Nathan O. Stitziel, PHD, MD, BA1</td>
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</tr>
<tr>
<td>Keith Evan Stockerl-Goldstein, MD</td>
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</tr>
<tr>
<td>James Andrew Stokes, MD</td>
<td>Instructor in Clinical Medicine</td>
<td>Stanford University 1976, University of Missouri 1984</td>
</tr>
<tr>
<td>Michael Gary Stone, MD</td>
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<td>Kansas City Univ Med/Bioscience 2008</td>
</tr>
<tr>
<td>Cristina Strong, PHD</td>
<td>Assistant Professor of Medicine</td>
<td>University of Alabama 2002</td>
</tr>
<tr>
<td>Christopher Michael Sturgeon, PHD</td>
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<td>University of Missouri 2003</td>
</tr>
<tr>
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</tr>
<tr>
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</tr>
<tr>
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</tr>
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</tr>
<tr>
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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 the exam 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 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 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: Communication: Serious Adverse Events to Patients and Families; Session 4: Intimate Partner Violence; Session 5: Medical Malpractice/Tort Reform; Session 6: Health Care Financing; Session 7: Update on the Patient Protection and Affordable Care Act (PPACA); Session 8: Clinical Practice Management; Session 9: Recognizing Personal Biases; Session 10: Evaluation and Treatment of Patients with Disabilities. Attendance at eight out of 10 POM III sessions is required to pass this course. Students may use two absences for any reason and are recommended to save them for their ACES rotation, Labor & Deliver rotation, or an emergency. Sessions will be from 12-2 p.m. on the third Tuesday of every month except for November and December. (Please note that the first session is held on the fourth Tuesday of June).

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 Dermatologic Clerkship
The goal of the dermatology clerkship is to provide a guide for the student to appreciate dermatology within the broader perspectives of medicine and biology. The student will develop familiarity with dermatologic vocabulary, learn to recognize and initiate therapy of common dermatologic disorders and become cognizant of uncommon or complicated dermatologic problems that require specialty care. Emphasis will be placed on careful history taking and physical examination. Students will always work under the direction of the resident physician and the attending physicians in the clinic setting. Credit 154 units.

M25 Medicine 750 Geriatrics Clerkship
The primary goal of the four-week clerkship in Geriatrics is to provide an opportunity for students to gain proficiency in the principles of geriatric evaluation, including the medical, psychological, social, and functional assessments of older adults. Direct, hands-on experience with patients is a major feature of the clerkship. Students are expected to participate in the evaluation of three to five patients per week, in a variety of settings including the hospital Acute Care for the Elderly (ACE) unit on 3200 North Campus, the Older Adult Outpatient Assessment Program (Storz building), and the Long Term Care Setting (Barnes Extended Care in Clayton). Students attend hospice, geropsychiatry rounds, and the geriatric conferences while on the rotation. Students are assigned to a variety of attendings to enhance the experience. There is no night call or call on weekends. Participation on the hospital consult service will occur depending on volume. The day normally begins at 8:00 a.m. and is usually finished by 5. There will be time to read the detailed syllabus/bibliography. Students will be asked to present a brief topic of their choice at the end of the rotation and demonstrate knowledge of the geriatric screens and assessments. Credit 154 units.

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

**M25 Medicine 805 Rheumatology**

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

**M25 Medicine 807 Honors Medicine - VA Hospital**

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

**M25 Medicine 810 Geriatric Medicine**

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

**M25 Medicine 811 Clinical Internal Medicine - Hospitalist**

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

**M25 Medicine 814 Clinical Emergency Medicine - Barnes-Jewish Hospital**

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

**M25 Medicine 821 Inpatient Cardiology**

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

**M25 Medicine 822 Honors Medicine - Cardiology**

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

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

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

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

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

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

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

M25 Medicine 836 Clinical Gastroenterology and Hepatology
The GI Hepatology elective is integrated into a very active inpatient/outpatient and endoscopy service 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 processes 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 in this highly immune suppressed population. A wide distribution of infectious diseases is covered including management of neutropenic fever, invasive fungal infections in the transplant population, acute and chronic infections, infection prophylaxis and monitoring and interactions between immunosuppressive agents and antibiotics.

M25 Medicine 858 Ambulatory Infectious Disease
The elective is designed to teach students the fundamentals of evaluating clinical infections in the outpatient setting. Students see patients under the supervision of a faculty member. Students will participate in the care of HIV-infected or otherwise immunosuppressed patients as well as general infectious disease and travel patients. The clinic is the primary provider for HIV-infected patients, and students will learn the pathogenesis of HIV, become familiar with most antiretroviral medications, and have the opportunity to learn about opportunistic infections and their prophylaxis. They will also have the opportunity to see
patients with bone and joint infections, endovascular infections, endemic and opportunistic mycoses, 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 patients for bedside teaching and attend tumor boards and lectures focused on the care of patients with solid tumors. At the end of the rotation the students will appreciate the principles of our approach to cancer patients and should have gained insights into the pharmacological basis for systemic cancer treatment. The ethical and medical challenges of caring for patients with advanced incurable malignancies will also be an important theme, as well as the conduct of clinical research in this patient population. Students will learn to care for hospitalized patients suffering from complications from their cancer or from toxicities due to treatments. Oncologic emergencies will be covered. Issues such as palliative care treatment options and end-of-life decision making will be explored as well. Major learning goals: (1) Become familiar with frequent complications of cancer treatment such as neutropenic fever, nausea/vomiting, diarrhea, infectious complications and their management. (2) Become familiar with oncologic emergencies (spinal cord compression, hypercalcemia, neutropenic sepsis) and their management. (3) Become more comfortable interacting with patients and families requiring difficult psychosocial and end-of-life discussions.

M25 Medicine 865 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, radiology rounds Monday through Saturday, pulmonary conference and medical grand rounds on Thursday, and critical care conference once each month. Call schedule is every third night.

M25 Medicine 869 Palliative Medicine
The Palliative Medicine elective will focus on the care of patients with life-threatening or debilitating illness throughout the course of their care. Skills in symptom management, communication, and interdisciplinary team-based care will be the focus. Students will spend the majority of their time on the BJH Palliative Care Service. Based on the individual student’s interest, there may also be opportunities to work with the BJC Hospice Team and the St. Louis Children’s Hospital Palliative Care Service. While in the hospital, students will be responsible for seeing patients...
upon initial assessment as well as delivering follow-up care with the team. Patients will be seen for both end-of-life care as well as symptom management. Students will learn to assess and treat refractory symptoms and participate in complicated advanced care planning. Students will attend interdisciplinary team meetings, and may participate in conversations about goals of care and coping with bad news. They may also make home visits with hospice care providers, if desired. Emphasis will be placed on observing and understanding the psychosocial and spiritual needs of the patients, as well as the impact of the burden on caregivers. In addition, students will be expected to lead biweekly presentations/group discussions on selected aspects of Palliative Medicine with the BJH Palliative Care team.

M25 Medicine 870 Endocrinology, Diabetes, and Metabolism
In general, the four-week rotation will be divided into two weeks of general endocrinology and two weeks of diabetes. Students taking this elective will perform consultations with fellows and faculty on the inpatient services at Barnes-Jewish Hospital and will also see patients with endocrine and metabolic diseases in the Outpatient Consultation. They will present these cases daily on teaching rounds. They will also participate in case conferences and seminars on a weekly basis. Extensive interaction with patients with diabetes and a diabetes education program are included, as is involvement with patients with thyroid, pituitary, adrenal, gonad, metabolic bone disease, and lipid disorders. Ample opportunities will be provided for discussions of patient problems with the members of the division. A variety of outpatient clinics are offered in the division, and interested students should speak with the fellows and faculty members to customize the learning experience to match their career goals. At the end of the rotation, it is expected that students will have the ability to initiate inpatient and outpatient management of diabetes including insulin dosing and glucose monitoring, as well as evaluate and treat a variety of endocrine disorders including but not limited to thyroid, pituitary, adrenal 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 weekday. They will observe different styles that oncologists have in presenting news about prognosis, treatment options and other information to patients while they also learn about the molecular basis for cancer, the mechanisms of action for our therapies (particularly the newer agents which target specific molecular abnormalities) and the key studies that justify the use of therapies (e.g., randomized studies showing that after surgery, chemotherapy will reduce the risk of recurrence from a particular cancer with a particular regimen). By spending time with clinicians, students will learn how to identify hereditary syndromes, use drugs for symptom relief and also learn how radiographic and laboratory tests allow oncologists to care for patients.

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

M25 Medicine 879 Pulmonary Clinic for the Underserved
Clinical setting: Outpatient clinic dedicated to providing pulmonary specialty care to patients who are predominantly uninsured or who rely upon public assistance such as Medicaid. Student role: Students independently interview and examine patients and present findings to the attending, tests and imaging are reviewed, and provider and attending develop plan. Common problems/diseases: Asthma, COPD, sarcoidosis, lung cancer, and obstructive sleep apnea are commonly seen. Also, patients are referred for evaluation of abnormal x-rays and for symptoms such as dysphagia. 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.

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

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

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

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

M25 Medicine 887 Clinical Cardiovascular Medicine

M25 Medicine 890 Clinical Nephrology
Students rotate through inpatient and outpatient experiences to gain exposure to all facets of nephrology. They will spend the majority of their time on an inpatient consult service, gaining exposure to acute and chronic renal failure, glomerulonephritis, and electrolyte disorders. During this time, they will serve as a fully integrated member of the consult team, evaluating underlying causes of kidney disease, performing diagnostic procedures, formulating management plans, and engaging in decision-making discussions with primary services and families. In addition, students will have the opportunity to experience ICU nephrology, the transplant service, the various CKD clinics, and all modalities of dialysis, including in-center, home, and peritoneal dialysis.

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

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