Instruction in medicine is provided during all four years of the medical curriculum, beginning with Practice of Medicine I (Medicine 507) during the first year. Teaching during the second year has two main objectives: (1) the correlation of the basic sciences with clinical aspects of disease; and (2) training in the technical methods of physical examination and laboratory diagnosis. By the beginning of the third year, the student is ready for the 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. During the final year, students may select a sub-internship in general medicine and a series of elective courses in the medical specialties.

Website: https://internalmedicine.wustl.edu

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:

Victoria J. Fraser, MD (https://infectiousdiseases.wustl.edu/faculty-staff/victoria-j-fraser/)
Adolphus Busch Professor of Medicine and Chair

Jeffrey S. Crippin, MD (https://profiles.wustl.edu/en/persons/jeffrey-crippin/)
Marilyn E. Bornfeld Chair in Gastrointestinal Research and Treatment and Professor of Medicine
Vice Chair of Clinical Programs

Andrew Odden, MD (https://profiles.wustl.edu/en/persons/andrew-odden/)
Associate Professor of Medicine
Vice Chair of Patient Safety

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Chief, Division of Bone and Mineral Diseases

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Chief, Division of Dermatology

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Chief, Division of Gastroenterology

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Interim Chief, Division of General Medicine

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Chief, Division of Oncology

Robert A. and Elizabeth Henby Sutter Chair in Occupational, Industrial, and Environmental Medicine
Chief, Division of General Medical Sciences

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Interim Chief, Division of Cardiology

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Professor of Medicine
Chief, Veteran's Administration

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

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Chief, Division of Pulmonary and Critical Care Medicine

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Chief, Division of Nephrology

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Chief, Division of Allergy and Immunology

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

Associate Professor of Medicine
Interim Chief, Division of Hospital Medicine
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Interim Chief, Division of Hematology

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The Stokes Family Endowed Chair in Palliative Medicine and Supportive Care Chair and Associate Professor of Medicine
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Visit our website for more information about our faculty (https://internalmedicine.wustl.edu/divisions/) and their appointments.

A

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BA University of CA Santa Barbara 1991
MD Cornell University 1995

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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

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Instructor in Medicine (primary appointment)
DIP Washington Univ in St. Louis 2008
BS University of Pennsylvania 2001
MD University of Rochester 2014

Basem Abdeen, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Jordan 2001

Khaled M Abdel-Hamid
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MS University of Nice 2008
BS Holy Spirit Univ of Kaslik 2006
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MS University of Paris 2009

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Professor of Cell Biology and Physiology
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BS American University of Beirut 1972

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BA UT Permain Basin 2017

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MD Aleppo University 1991

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MD Beirut University 1999
BS Beirut University 1995

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BS University of Nebraska 1999

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MD Temple University 1981  
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MD Dartmouth College 1992
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MD1 Brown University 1994

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PHD University of Chicago 1967

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Associate Professor of Molecular Microbiology  
Associate Professor of Pathology and Immunology
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PHD Erasmus University Rotterdam 2003

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BA Univ of IL -Urbana-Champaign 2000

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PHD Cornell University 1998
BA University of Rhode Island 1991
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MD Cornell University 1999
PHD1 Cornell University 1998

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MD University of North Carolina 1974
BS Davidson College 1970

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PHD St Louis College of Pharmacy 2005

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

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MD University of Missouri 1985

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Associate Professor of Biochemistry and Molecular Biophysics
Associate Professor of Cell Biology and Physiology
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BS1 Washington Univ in St. Louis 2001
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BA Sweet Briar College 2003
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Christopher B. Brooks, MD
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Angela L Brown, MD
Professor of Medicine (primary appointment)
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BS Southern Methodist University 1987

Ashley Elizabeth Brown, MD
Instructor in Medicine (primary appointment)
MD University of Central Florida 2017
BS Cornell University 2012
BS Cornell University 2012

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

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

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BS University of Minnesota 1968
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BS Princeton University 1973
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PHD Vanderbilt University 2003
BS Brigham Young University 1998
BS1 Brigham Young University 1998

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BS Miami University 2012
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BS Southwestern University 2008
BS1 Southwestern University 2008
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MD University of Missouri 1983

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Assistant Professor of Surgery (Public Health Sciences)
MS Harvard University 2006
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BS Emory University 2003

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

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

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Associate Professor of Medicine (primary appointment)
Associate Professor of Neurological Surgery
PHD University of Louisville 2003
MD Tianjin Medical University 1997
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MD Saint Louis University 2001
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BS Ohio State University 2001
PHD Emory University 2008

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BA Wellesley College 2005
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Executive Chair Washington University Institutional Review Board
MD Washington Univ in St. Louis 1999
BS Yale University 1995
BS1 Yale University 1995

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PHD AIX-MARSEILLE UNIVERSITY 2013

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BS Duke University 1990

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BA Northwestern University 2009

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MED University of Chicago 2003
MD University of Chicago 2003
BS Yale University 1999

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BS Washington Univ in St. Louis 1991
MD University of Missouri 1995

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

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MD University of MO Kansas City 1995

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

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

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

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

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

Dennis Di Chen, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Univ of Texas San Antonio 2012
Edward C. Chen, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 2005

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

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

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

Sara X Chen  
Assistant Professor of Medicine (primary appointment)  
BS Vanderbilt University 2010

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

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

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

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

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

Phillip Ruben Chisholm  
Instructor in Clinical Medicine (primary appointment)

Jaehyung Cho  
Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)

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

MS Univ of Nebraska at Omaha 2001

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

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

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

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

Jeffrey Peter Ciaramita  
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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Assistant Professor of Medicine (primary appointment)  
BA Saint Louis University 2009  
MD Loyola University Chicago 2013

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

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

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

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MD University of Alabama 2003

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

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BA Mount Holyoke College 1972
MA Brown University 1975
MD Harvard University 1981

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

Sarah F Cole
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

Matthew Cooper, PHD
Assistant Professor of Medicine (primary appointment)
PHD University of Surrey 2008
BS University of Surrey 2004

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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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Associate Professor of Medicine (primary appointment)
MD Tulane University 2005

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Assistant Professor of Medicine (primary appointment)
MD Temple University 2011

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Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1977
BA Saint Louis University 1974

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

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

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MD Case Western Reserve Univ 1983
BA Saint Louis University 1979

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BS University of Missouri 1980
MD University of Iowa 1986
MBA University of Pennsylvania 1994

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BS Loyola College 1994
MS Georgetown University 1998
MD Georgetown University 2003

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Associate Professor of Clinical Medicine (primary appointment)
MD Saint Louis University 1984
BA Carleton University 1976
PHD Saint Louis University 1984

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Associate Professor of Genetics
BS State Univ of NY Binghamton 1982
MD New York University 1986

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BA Harvard University 1960  
MD Harvard University 1965

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Professor of Medicine (primary appointment)  
BS University of Notre Dame 1980  
MD University of Kansas 1984

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MD Universidad Autonoma de Madrid 2009

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Professor Emeritus of Medicine (primary appointment)  
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BA Northwestern University 1962  
MD Northwestern University Med 1965

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Associate Professor of Medicine (primary appointment)  
Associate Professor of Radiation Oncology  
MD Vanderbilt University 2001

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

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BS Williams College 1995  
MD Saint Louis University 2005  
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MD University of Rochester 1974

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MD Washington Univ in St. Louis 2013  
BA Brandeis University 2009

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Professor of Occupational Therapy  
PHD Saint Louis University 2009  
BS University of MO Columbia 1983

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Professor of Medicine (primary appointment)  
Vice Chairman and Chancellor Emeritus  
MD Harvard University 1951

**Ba Princeton University 1947**

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PHD Virginia Tech 2014  
BS HANOI U OF SCIENCE AND TECH 2003

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Professor of Clinical Medicine (primary appointment)  
MD Howard University 1989  
BS Howard University 1985

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

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

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Instructor in Medicine (primary appointment)  
BS Northeast Ohio Medical U 2012  
MD Northeast Ohio Medical U 2016

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

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MBBS Guntur Medical College 1985

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MD Columbia University 2016

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MD University College of Med Sci 1986

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

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Professor of Developmental Biology  
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Professor of Anesthesiology  
Professor of Radiology  
MD University of Puerto Rico 1981
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MSN Arizona State University 2000
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MD St George's University 2004

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

**Jeffrey M Davis, MD**
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MD Washington Univ in St. Louis 1995
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Professor of Medicine
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MD University of Texas Southwest 1996
BA Stanford University 1991

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BA Bowdoin College 1986
MD Loyola University 1995

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BS University of MO St Louis 2005
MS University of MO St Louis 2007
PHD University of MO St Louis 2013

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MD University of MO Columbia 2003
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BS Creighton University 2000
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PHD Baylor University 2005
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UNKNOWN School Not Listed 1991
MS School Not Listed 1991

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Associate Professor of Clinical Psychiatry
BA Meredith College 1981
PHD University of Georgia 1985
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Associate Professor of Medicine (primary appointment)
MD Michigan State University 2004
BS Michigan State University 2000

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Assistant Professor of Medicine (primary appointment)
MD Indira Gandhi Medical College 2009

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Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Rosalind Franklin University 2013
BS Illinois Institute of Technol 2008

**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

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Instructor in Clinical Medicine (primary appointment)
BA Georgetown University 1992
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Assistant Professor of Medicine (primary appointment)
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MD Creighton University 2004

**Bethany L Dement, MD**
Instructor in Medicine (primary appointment)
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**David G. DeNardo, PHD**
Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
PHD Baylor University 2005
BS Willamette University 1999

**Amber Zimmer Deptola, MD**
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BS Miami University 2008
MD University of Louisville 2012

**Sunny Desai, UNKNOWN, MS**
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MS School Not Listed 1991

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Associate Professor of Clinical Psychiatry
BA Meredith College 1981
PHD University of Georgia 1985
MS University of Georgia 1983

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

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

**Jason Devgun, MD**
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Rosalind Franklin University 2013
BS Illinois Institute of Technol 2008

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

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

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

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

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

Colin Diffie, MD
Instructor in Medicine (primary appointment)
BA University of Texas Austin 2008
BA University of Texas Austin 2008
MD Univ of Texas Med Sch Houston 2014

Hanan M Dihowm, MBCHB
Instructor in Medicine (primary appointment)
MBCHB Misurate University 2006

Li Ding, PHD
Professor of Medicine (primary appointment)
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
PHD University of Rochester 1980
BA Williams College 1973

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

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

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

MD Saint Louis University 1983

Irl Joseph Don, MD
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
Associate Professor of Medicine (primary appointment)
PHD University of Illinois 1999
BS Southern Illinois University 1993

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

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

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

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

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

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

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

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

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

Evan Louis Dupart, MD  
Instructor in Medicine (primary appointment)  
MD University of Colorado Denver 2017

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

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

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

Cady Beedy Edwards, MD  
Instructor in Medicine (primary appointment)  
MD University of South Alabama 2017  
BS University of Alabama 2013

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

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

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

Syed Usman Mohsin Ehsanullah  
Instructor in Medicine (primary appointment)

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

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

Jack El Sawda, MD  
Instructor in Medicine (Pending Dean's Approval) (primary appointment)  
MD University of Balamand, Lebano 2014

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Instructor in Clinical Medicine (primary appointment)  
MS School Not Listed 1986  
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John Ellena, MD  
Associate Professor of Clinical Medicine (primary appointment)  
MD Southern Illinois University 1983  
BS Southern Illinois University 1980

Melissa Berrien Elliott, PHD  
Instructor in Medicine (primary appointment)  
PHD Saint Louis University 2014  
BS Eckerd College 2006

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

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AB1 Saint Louis University 2006  
MD University of Khartoum 1985

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

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

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

Ingrid Eshun-Wilsonova, MS, MD
Instructor in Medicine (primary appointment)
MS University College London 2009
MD University of Cape Town 2000

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

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

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

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Instructor in Medicine (primary appointment)
BS University of Pittsburgh 2009
MD Washington Univ in St. Louis 2015
MA University of Pittsburgh 2011

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)
MD Northwestern University 1989
BS University of Illinois 1985

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PHD La Sapienza University 2006
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Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1993

BS Kansas State University 1985
PHD Washington Univ in St. Louis 1993

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MS School Not Listed 1989
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Instructor in Medicine (primary appointment)
MD Louisiana St University 2014

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Professor of Medicine (primary appointment)
BS State Univ of NY Buffalo 1994
PHD Ohio State University 2000
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MD University of Parma 2004
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MD University of Arkansas 1975
BS University of Arkansas 1973

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Instructor in Medicine (primary appointment)
BS Southeast Missouri St Univers 2006
MSW Washington Univ in St Louis 2017

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MD Southern Illinois University 2015

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

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

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Professor of Medicine (primary appointment)
MS Free University of Berlin 1991
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MD School Not Listed 1974

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

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

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Professor of Medicine (primary appointment)
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BA Cornell University 1981

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BS Texas A&M University 2009
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MD University of Puerto Rico 2015

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MD University of Verona 1994
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MA University of Iowa 1999
PHD University North Carolina 2010
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MD Saint Louis University 1996

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MS University of Naples 2012
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MD Washington Univ in St. Louis 1993
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Instructor in Medicine
BS Niagara University 2013
MD Washington Univ in St. Louis 2017

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MD University of Utah 1994
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MS Stanford University 1995
MD University of California 1988
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BS University of MO Columbia 1990
DOST Kansas Cty Univ Med/Bioscience 1994

Sumanth Gandra, MA, MD
Assistant Professor of Medicine (primary appointment)
MA Eastern Kentucky University 2007
BS University of Missouri Columbia 2010
BA Osmania Medical College 2014

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

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

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

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 Swarthonmore 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

Taylor Elizabeth Geisman, BS1, MD
Instructor in Medicine (primary appointment)
BS1 University of Dayton 2013
MD Washington Univ in St. Louis 2017

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

Natalia Genere, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
BS University of Michigan 2009
MD University of Minnesota 2020

Elvin Hsing Geng, MD, MPH
Professor of Medicine (primary appointment)
MD Columbia University 2002
BA University of CA Berkeley 1996
MPH Columbia University 2002

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

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

Bria D Giacominio, MD
Assistant Professor of Medicine (primary appointment)
MD Midwestern University 2012

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

Kevin James Gibson, MD
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)
BS Whitman College 1994
MD Creighton University 2001

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)

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

Tracey L Godbold, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2017
BA Wellesley College 2007

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

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
MD Washington Univ in St. Louis 1985
BA Harvard University 1978
PHD Washington Univ in St. Louis 1985

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

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

Daniel Arthur Goldstein
Adjunct Professor of Emergency Medicine in Medicine (primary appointment)

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

Maria Cristina Gonzalez-Mayda, MD
Assistant Professor of Medicine (primary appointment)
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

David Alan Goran, MD
Assistant Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1976
BA University of Michigan 1972

John Gorcsan III, MD
Professor of Medicine (primary appointment)

MD Pennsylvania State University 1983
BA Lehigh University 1979

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

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

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

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

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

Aaron Greenspan
Instructor in Clinical Medicine (primary appointment)

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

Anas Khalifa Gremida, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Zawia University School of Med 2008

Patrick Grierson, PHD, MD
Instructor in Medicine (primary appointment)
PHD Ohio State University 2012
MD Ohio State University 2014
BS University of Wisconsin-Madiso 2015

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

Malachi Griffith, BS1, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Genetics
BS1 University of Winnipeg 2002
BS University of Winnipeg 2002
PHD University of British Columbia 2010
Obi Lee Griffith, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Genetics
BS University of Winnipeg 2002
PHD British Columbia Open Univ 2008

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

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

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

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

Lucas Bohao Gu, DOST
Instructor in Medicine (primary appointment)
DOST Des Moines University 2017
BS University of Wisconsin-Madison 2011

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

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

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

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

Kamal Gursahani, MBA, MD
Associate Professor of Medicine in Emergency Medicine (primary appointment)
BA Columbia University 1997
MBA Saint Louis University 2012

Alexandra Gutierrez, MD, M PH
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

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

Zachary T Hatez, MD, MA
Instructor in Emergency Medicine in Medicine (primary appointment)
BS University of Illinois 2006
MA University of Missouri 2014

Matthew 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 Gueorguev 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

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

Lana Hamieh
Instructor in Medicine (primary appointment)

Stephanie M Hammer, MD
Instructor in Clinical Medicine (primary appointment)
BA Smith College 1990
MD Chicago St University 1995

Janice L Hanson, PHD
Professor of Medicine (primary appointment)
PHD University of Michigan 1984

Zahirul Haque
Instructor in Clinical Medicine (primary appointment)

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

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

Justin C Hartupee, PHD, MD
Assistant Professor of Medicine (primary appointment)
PHD Case Western Reserve Univ 2008
MD Case Western Reserve Univ 2010

Rim Hasan, MD
Instructor in Medicine (primary appointment)
MD Damascus University, School of 2011

Syed Hasan, MBBS
Instructor in Medicine (primary appointment)
MBBS Sindh Medical College 2013

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

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

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Professor of Clinical Medicine (primary appointment)
Adjunct Professor of Medicine
MD University of Louisville 1961
BA University of Louisville 1957

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

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

Katherine Therese Hemingway, MD
Instructor in Medicine (primary appointment)
MD Florida Atlantic University 2017
BA Univ of Massachusetts Amherst 2007

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

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)
BA Saint Louis University 1982
MD Saint Louis University 1991

Rochelle Rene’ Henderson, PHD
Adjunct Assistant Professor of Medicine (primary appointment)
PHD University of Missouri 2010

Michael Hendrix, MD
Instructor in Medicine (primary appointment)
BS Northern Arizona University 2010
MD University of AR Med Sciences 2015

Daniel Robert Herleth
Instructor in Clinical Medicine (primary appointment)

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

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

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

Andreas Herrlich, PHD, MD
Associate Professor of Medicine (primary appointment)
PHD Freie University 1998
Karin Hickey, MD  
Assistant Professor of Medicine (primary appointment)  
MD Luliu Hatieganu U of Med 2007  

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

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

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

Elizabeth Hilliker, MA, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
BA Washington Univ in St. Louis 1965  
MA Washington Univ in St. Louis 1970  
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  
PHD Washington Univ in St. Louis 2009  
BS Washington Univ in St. Louis 2001  

Matifadza G Hlatshwayo, BS1, MD, M PH  
Instructor in Medicine (primary appointment)  
BS1 Drury College 2005  
MD Case Western Reserve Univ 2012  
M PH Case Western Reserve Univ 2011  
BS Drury College 2005  

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

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

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

Timothy Richard Holden, MA, MD  
Assistant Professor of Medicine (primary appointment)  
BS Northwestern University 2006  
MA University of Wisconsin 2013  
MD University of Minnesota 2010  

Melissa Louise Hollie  
Instructor in Clinical Medicine (primary appointment)  

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

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

Neal Holzum  
Instructor in Clinical Medicine (primary appointment)  

Hitoshi Honda  
Adjunct Assistant Professor of Medicine (primary appointment)  

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

Barbra A Horn, MD  
Instructor in Clinical Medicine (primary appointment)  
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 Horwedin, PHD  
Adjunct Instructor in Medicine (primary appointment)  
PHD Northeastern University 2008  

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

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

Stacey L House, MD, PHD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of Cincinnati 2007
BS Yale University 1999
PHD University of Cincinnati 2005

Jacqueline Howard, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN School Not Listed 1995

David Thomas Howell
Instructor in Clinical Medicine (primary appointment)

Thomas W Hoyt, MD
Instructor in Medicine (primary appointment)
MD University of Iowa 2016
BA MO State U (formerly SW MO St) 2009

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

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

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

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

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

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

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
Associate Professor of Medicine (primary appointment)
MD Loyola University Chicago 2000
BA Washington Univ in St. Louis 1995

Jing Hughes, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
MD University of Pennsylvania 2009
BS Stanford University 2002

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

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

Eva A Hurst, MD
Assistant Professor of Clinical Medicine (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

Mustafa H Husaini, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Michigan State University 2014
BA Grand Valley St University 2010

Elaine Joyce Hutchison, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS Cornell College 2011
MD University of Arizona 2016

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

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

J

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

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

Myron H Jacobs, MD
Instructor in Clinical Medicine (primary appointment)
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, PhD, MD
Associate Professor of Medicine (primary appointment)
PHD Washington Univ in St. Louis 2005
BS Johns Hopkins University 1996
MD Washington Univ in St. Louis 2005

Maria Miriam Jacome Sosa, PhD
Instructor in Medicine (primary appointment)
PHD University of Alberta 2013

Jordan M Jacquez, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2017
BA Duke University 2013

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

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

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

Sudhir Kumar Jain, MBBS
Associate Professor of Medicine (primary appointment)

MBBS Maulana Azad Medical College 1986

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

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

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

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

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

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

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

Benjamin C. Jennings, PHD
Instructor in Medicine (primary appointment)
PHD Washington Univ in St. Louis 2018
BS Univ of Wisconsin Madison 2004

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

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

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

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

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

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

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

William F Johnson
Adjunct Instructor in Medicine (primary appointment)

Grace Dizon-Retiro Jones, DOST
Instructor in Emergency Medicine in Medicine (primary appointment)
DOST Osteopathy 1996

Gregory D Jones, DOST
Instructor in Emergency Medicine in Medicine (primary appointment)
DOST Osteopathy 1994

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

Allison Jordan, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Texas Southwest 2008

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

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

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

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

K

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

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

Lalit Chandra Kalvala
Instructor in Medicine (primary appointment)

Sona Sharad Kamat
Instructor in Clinical Medicine (primary appointment)

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

Deborah Shipleyn 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

Erin E Kane, MD
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)
BA Lindenwood University 2009
MD University of Central Florida 2015

Divya Kapoor, MD
Assistant Professor of Medicine (primary appointment)
MD University of Washington 2002

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

Casey Duncan Saul Katerndahl, PHD
Instructor in Medicine (primary appointment)
BS University of Minnesota 2008
PHD University of Minnesota 2015

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

David A Katzman, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1991
Andrew L. Kau, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
BS Emory University 1998  
PHD Washington St University 2006  
MD Washington Univ in St. Louis 2006

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

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

Brandon David Kayser, PHD  
Instructor in Medicine (primary appointment)  
BS Chapman University 2007  
PHD University of Southern Calif 2014

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

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

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

Timothy Lee Kella, MD  
Instructor in Emergency Medicine in Medicine (primary appointment)  
BA Saint Louis University 1978  
MD Saint Louis University 1982

Jesse Wade Keller, MD  
Assistant Professor of Medicine (primary appointment)  
MD Johns Hopkins University Medic 2009  
BS University of Tulsa 2005

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

Peggy Lynn Kendall, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Pathology and Immunology  
MD University of Texas Dallas 2019

Charlotte J Kennedy, PHD, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
PHD Washington Univ in St. Louis 1992  
BA Agnes Scott College 1984  
MD Washington Univ in St. Louis 1992

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

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

Ahmed Sultan Khan  
Adjunct Instructor in Medicine (primary appointment)

Aava Khatiwada, MD  
Instructor in Medicine (primary appointment)  
BA Indiana State University 2013  
MD Indiana State University 2017

Charbel Chafic Khoury, MD  
Assistant Professor of Medicine (primary appointment)  
MD American University of Beirut 2008  
BS American University of Beirut 2004

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

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

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

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

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

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

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

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

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

**Miriam Yunhee Kim, MD**
Assistant Professor of Medicine (primary appointment)
BS Yonsei University 2004
MD Seoul National University 2008

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

**Rosa Anne Kincaid, MD**
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MD Temple University 1984

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MSN University of Texas Austin 1987
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Professor of Neuroscience
Professor of Pathology and Immunology
Vice Provost and Assoc Dean of Graduate Medical Education
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MS Albert Einstein College of Med 1990
MD Albert Einstein College of Med 1993
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MS Mass Inst of Technology (MIT) 1984
MD Temple University 1979
BA Brandeis University 1974

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MD Saint Louis University 2002

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MD University of Rochester 1983

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MD Washington Univ in St. Louis 1978

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MD University of MO Kansas City 1995
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BS University of Texas Austin 2012
MD Baylor College of Medicine 2016

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BA University of Notre Dame 1980
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BS Emory University 1978
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MD Semmelweis University of Med 1985
BS School Not Listed 1981

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MS California Institute Technolo 1972
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BS Cornell University 1969
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PHD McGill University 1982
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BS Emory University 1998
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MD Harvard University 1970

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Instructor in Medicine (primary appointment)
BS University of Pune 2006
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Assistant Professor of Molecular Microbiology
MBBS Seth G.S. Medical College 2009
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PHD Washington Univ in St. Louis 2000  
BS University of Georgia 1992  
MD Washington Univ in St. Louis 2000  
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MD University of Arkansas 2001  
BA Hendrix College 1997

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MD Medical University of Sth Car 2017  
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BS1 Mass Inst of Technology (MIT) 1979  
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MEE Princeton University 1980  
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MD Washington Univ in St. Louis 2017  
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MD University of CA Irvine 2011  
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MD Saint Louis University 2009

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BA Washington Univ in St. Louis 2003

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BA University of Utah 2013  
MD Medical College of Wisconsin 2017

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MS Southeast Missouri St Univers 1999  
PHD Washington Univ in St. Louis 2005

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Associate Professor of Medicine (primary appointment)  
BS University of Michigan 1993  
PHD University of Michigan 2007  
MS Wayne State University 1996

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MD Washington Univ in St. Louis 1982  
BA Webster University 1976

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BS University of California 1995  
M PH California State University 1999  
MD Drexel University 2005

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MS University of Toronto 1979  
BS University of Western Ontario 1977  
MD McGill University 1983

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MPH Saint Louis University 2013
PHD Saint Louis University 2017
BS Saint Louis University 2009
MSW Saint Louis University 2010
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MD Washington Univ in St. Louis 1958
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Professor Emeritus of Psychiatry
MBBS University of Adelaide 1963
BS School Not Listed 1957

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MD University of Iowa 1999
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Professor of Medicine (primary appointment)
BA Saint Louis University 1983
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MD University of Illinois Chicago 2012
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MD Washington Univ in St. Louis 1956

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PHD University of Cincinnati 1997
MD Beijing Medical University 1990

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

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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

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Instructor in Medicine (primary appointment)
BA Washington Univ in St. Louis 2009
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MD University of Missouri 2013
BA Washington Univ in St. Louis 2007

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BS Trinity College 2003
MD Albert Einstein College of Med 2008

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Professor of Medicine (primary appointment)
MD Emory University 1999
BA Rice University 1993
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BA1 Cornell College 1995
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BA Cornell College 1995

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Assistant Professor of Medicine (primary appointment)
BS American University of Beirut 2006
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BS University of Illinois 1971

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MD Meharry Med College 1998
BS Xavier University 1993

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PHD University of MO Columbia 2013
BS University of Kansas 2006

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

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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
AS Oakton Community College 2000
DPT Washington Univ in St. Louis 2005

BS Washington Univ in St. Louis 1990
MS Washington Univ in St. Louis 1990

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MD University of Michigan 2016
BS Seattle University 2012

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

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BS Fairfield University 2004

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BS University of Michigan 1972
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MA Northern Michigan University 1980

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BS University of Notre Dame 2009
MD Indiana State University 2013

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MD University of Toledo 2013

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BS University of Utah 2013
MS University of Oklahoma 2015
PHD University of Oklahoma 2018

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MD School Not Listed 1981
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MD University of Missouri 1989
BA University of Missouri 1989

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BA University of California 1971
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BS Carnegie Mellon University 2003

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BA Northwestern University 2005
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MD Universidad de San Carlos 2008

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MD Washington Univ in St. Louis 1954
BA Washington & Lee 1950

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BS University of Virginia 2009
MS Boston University 2012

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MD School Not Listed 1976
BS School Not Listed 1970

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MD Wayne State University 2015
BS Michigan State University 2011

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MD Sri Venkateswara University 2006

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MBBS King Edward Medical College 1999

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MD University of Iowa 1999

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MD Duke University 1982
BS University of Missouri 1978

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BA Saint Louis University 1999
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BS Truman State University 2005
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BS Carleton College 1996
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BS North Carolina State Universit 2005

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

Monalisa Mullick, MD
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Assistant Professor of Pediatrics
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MD Hahnemann University 1987

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MS University of Missouri 1984
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BA Williams College 2011
MD Tufts University 2017

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MBBS Kasturba Medical College 2015
MBBS Kasturba Medical College 2015
MBBS Kasturba Medical College 2015
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MD University of CA San Francisco 2013
<table>
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<tr>
<th>Name</th>
<th>Title</th>
<th>Affiliation</th>
<th>Education</th>
</tr>
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<tr>
<td>Michael Alexander Paley, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD University of Pennsylvania 2014</td>
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<tr>
<td>Ross Ian Palis, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<tr>
<td>Kevin Terrence Palka, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<tr>
<td>Peter D Panagos, MD, MA</td>
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<tr>
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<td>MS University of Texas Houston 2011</td>
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<tr>
<td>Joseph Pangelinan, PHD, MA</td>
<td>Assistant Professor in Medicine (primary appointment)</td>
<td>PHD University of MO St Louis 2015</td>
<td>MA Southeast Missouri St Univers 1995</td>
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<tr>
<td>Kerry Will Pantelis, MD</td>
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<td>BA Yale University 1995</td>
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<tr>
<td>Andrew Yong-Woo Park, MD</td>
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<tr>
<td>Haeseong Park, MS, MD</td>
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<td>Stephanie Sun-Young Park</td>
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<td>BA Yale University 1995</td>
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<tr>
<td>David A Parks, MBA, MD</td>
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<tr>
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<td>MD University of Louisville 1982</td>
</tr>
<tr>
<td>Dilip H. Patel</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD University of Pennsylvania 2014</td>
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<tr>
<td>Namrata N Patel, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD University of Tennessee 2013</td>
<td>BS Duke University 1998</td>
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<tr>
<td>Pravinkumar Manjibhai Patel, MD</td>
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<td>MD BJ Medical College 1980</td>
<td>BS Duke University 1998</td>
</tr>
<tr>
<td>Rajiv Nanu Patel, MD</td>
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<td>MD University of MO St Louis 2013</td>
<td>BS Duke University 1998</td>
</tr>
<tr>
<td>Amanullah Pathan, UNKNOWN1, UNKNOWN, MS</td>
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<td>MD Saba University School of Med 2001</td>
<td>BS Duke University 1998</td>
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<tr>
<td>Rupa R Patel, MD, M PH</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Wayne State University 2004</td>
<td>BS Duke University 1998</td>
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<td>Bruce Patterson, PHD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>MD Wayne State University 2004</td>
<td>BS Duke University 1998</td>
</tr>
<tr>
<td>Philip Richard Orrin Payne, MA, PHD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>MD Wayne State University 2004</td>
<td>BS Duke University 1998</td>
</tr>
<tr>
<td>Chelsea Elizabeth Pearson, MD</td>
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</tr>
<tr>
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<td>MS Central Michigan University 1984</td>
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</tr>
</tbody>
</table>
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PHD Mass Inst of Technology (MIT) 2010  
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PHD Emory University 2005

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MD University of Florida 1985  
BS University of Florida 1981

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Associate Professor of Molecular Microbiology  
MD University of CA San Francisco 2000  
PHD University of CA San Francisco 1998  
BA Columbia University 1991  
PHD University of CA San Francisco 2015

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BA Ohio State University 1959

MD Washington Univ in St. Louis 1963

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

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MD Washington Univ in St. Louis 1988

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MS State University of Utrecht 2003  
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MD University of Mississippi 2016  
BS University of Alabama 2012

Bryan Douglas Piotrowski, MD  
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MD Saint Louis University 2004

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Instructor in Medicine (primary appointment)  
PHD University of Pierre et Marie 1994

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Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MBBS Veer Surendra Sai Medical Coll 2000

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

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MD American U of Carribean SchMed 1999

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

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Instructor in Medicine (primary appointment)

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MD University of Illinois Chicago 1996

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BS University of Notre Dame 1967
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MS Shanghai Jiao Tong University 2019
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BA Washington Univ in St. Louis 1994
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Paetra Ruddy, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
BA Bard College 1997
MD University of Iowa 2011

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

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

Michael B Rusche
Adjunct Instructor in Medicine (primary appointment)

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

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

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

S

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

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

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

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

Sonny Satnam Saggar
Instructor in Clinical Medicine (primary appointment)

Rajan Sah, PHD, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Cell Biology and Physiology
PHD University of Toronto 2020
MD University of Toronto 1998

Sana Saff Ur Rehman, MD
Assistant Professor of Medicine (primary appointment)
MD King Edward Medical College 2007

Kaori A. Sakurai, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD University of Pittsburgh 1997

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

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

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

Maanasi Samant, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD University of Tennessee 2014

Robert Van Ness Same
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)

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

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

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

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

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

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

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

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Instructor in Clinical Medicine (Dermatology) (primary appointment)
MD Universidad def Buenos Aires 1971

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

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

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

Christine Schafer
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)

Jean E. Schaffer, MD
Adjunct Professor of Medicine (primary appointment)
BA Harvard Radcliffe 1982
MD Harvard University 1986
Richard O. Schamp, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Emporia State University 1974  
MD University of Kansas 1978

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

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

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

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

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

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

Jennifer Merlo Schmidt, MD  
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MD Saint Louis University 2012

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Robert Jay Schneider, MD  
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MD Johns Hopkins University 1976  
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MD Brown University 2005

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MD University of Cincinnati 2003  
BS University of Toledo 1999

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BA Saint Louis University 1991  
MD Saint Louis University 1996

Stephen Schuman, MD  
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MD Saint Louis University 1973

Benjamin D Schwartz, PhD, MD  
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Adjunct Professor of Medicine  
BA Columbia College 1965  
PhD School Not Listed 1971  
MD School Not Listed 1972

David B Schwartz, MD, MA, PhD  
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BS University of Michigan 1980  
MD Washington Univ in St. Louis 1987  
MA Washington Univ in St. Louis 1987  
PhD Washington Univ in St. Louis 1986

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BA University of Texas Austin 2001  
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Kristen Ann Scullin-Hartman, MD  
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MD University of MO Kansas City 1988

Alyssa Aya Self, MD  
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Instructor in Medicine  
BA Brown University 2013  
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David Seltzer, MD  
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Jay R Seltzer, MD  
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MD University of Missouri 1987  
BA University of Missouri 1987

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Professor of Cell Biology and Physiology  
BA University of Virginia 1977  
MD Washington Univ in St. Louis 1981

Deepali Prabir Sen, MD, MBBS  
Assistant Professor of Medicine (primary appointment)  
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MBBS Grant Medical College 1999
Joseph Michael Seria, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1968  
BS St Vincent College 1964

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MD Johns Hopkins University 1982  
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Assistant Professor of Pathology and Immunology  
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PHD Johns Hopkins University 2012

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BS Nankai University 1996  
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BA Northwestern University 1970  
MD Washington Univ in St. Louis 1974

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MD University of Jordan 1988

Jonathan Holden Sheehan, PHD  
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BA Harvard University 1988

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MD University of CA San Francisco 2008

David M. Sheinbein, MD  
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BA University of CA Berkeley 1987

Karen Ching-Chieh Shen, MD  
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UNKOWN Alexandria University 1984

Adrian Shifren, MB BCH, MS  
Associate Professor of Medicine (primary appointment)  
MB BCH University of the Witwatersra 1996  
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MD Washington Univ in St. Louis 1977

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BA Brandeis University 1977  
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BS University of Michigan 1978  
MD Wayne State University 1982

Corey Lamar Shy, MD  
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BA Prairie View A&M University 2013  
MD Texas A&M University 2017

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

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

Jessica Monique Silva-Fisher, PHD  
Instructor in Medicine (primary appointment)  
BS St Marys University 2005  
PHD Mayo Graduate School 2011

Julie Martha Silverstein, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Neurological Surgery  
BA New York University 2004  
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Randy B Silverstein, MD  
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MD Washington Univ in St. Louis 1975

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BS Harvard University 1992

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BS Delhi University 1968

Jasvindar Singh, MD
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MD Fiji School of Medicine 1988

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Assistant Professor of Medicine (primary appointment)
BA Haverford College 2006
MS University of Pennsylvania 2013
BA Haverford College 2006
MD University of Pennsylvania 2013

Sudhir Man Singh, MBBS
Instructor in Medicine (primary appointment)
MBBS Chittagong Medical College 2004

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

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

Amanda Melanie Smith, PHD
Instructor in Medicine (primary appointment)
PHD Univ of New Castle Medical Sch 2014

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

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

Timothy Robert Smith, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Mississippi 1983
MD University of Mississippi 1989

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

Michael C Snyder
Adjunct Instructor in Medicine (primary appointment)

Sandeep Sodhi, MD
Assistant Professor of Medicine (primary appointment)
MD University of Illinois 2010

Allen D Soffer, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1983

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

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

George Souroullas, PHD
Assistant Professor of Medicine (primary appointment)
PHD Baylor University 2010
BA Ohio Wesleyan University 2004

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

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

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

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

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

John Spertus
Adjunct Professor of Medicine (primary appointment)

Michael Spezia
Instructor in Clinical Medicine (primary appointment)
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
<th>University/College, Year(s)</th>
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<tr>
<td>Erik Christian Stabell, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>BA New College California 1976</td>
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<td>MD School Not Listed 1983</td>
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<tr>
<td>Paul M Stein, MD</td>
<td>Professor of Clinical Medicine (primary appointment)</td>
<td>BA University of Rochester 1967</td>
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<td>MD Saint Louis University 1971</td>
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<tr>
<td>Phyllis K Stein, PHD, M ED</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>BA Barnard College 1962</td>
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<td>PHD University of Virginia 1990</td>
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<td>M ED University of Virginia 1987</td>
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<tr>
<td>Richard Ian Stein, PHD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>PHD Arizona State University 2000</td>
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<tr>
<td>Emily Steiner, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>BA Case Western Reserve Univ 2009</td>
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<td>MD University of Toledo 2013</td>
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<tr>
<td>William F Stenson, MD</td>
<td>Dr Nicholas V Costrini Professor of Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1971</td>
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<td></td>
<td>BS Providence College 1967</td>
</tr>
<tr>
<td>Barbara B Sterkel</td>
<td>Adjunct Associate Professor of Medicine (primary appointment)</td>
<td></td>
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<tr>
<td>Kara Ellen Sternhell-Blackwell, MA, MD</td>
<td>Associate Professor of Medicine (Dermatology) (primary appointment)</td>
<td>MA Washington Univ in St. Louis 2003</td>
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<td>BA Washington Univ in St. Louis 1999</td>
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<td>MD Washington Univ in St. Louis 2005</td>
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<tr>
<td>Sean P Stickles, MD</td>
<td>Assistant Professor of Emergency Medicine in Medicine (primary appointment)</td>
<td>MD New York Medical College 2008</td>
</tr>
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<td>BA State Univ of NY Buffalo 2004</td>
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<tr>
<td>Nathan O. Stitzel, MD, PHD, BA1</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>BA Washington Univ in St. Louis 1998</td>
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<td></td>
<td>Associate Professor of Genetics</td>
<td>MD University of Illinois Chicago 2006</td>
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<td>PHD University of Illinois Chicago 2006</td>
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<td>BA1 Washington Univ in St. Louis 1998</td>
</tr>
<tr>
<td>Keith Evan Stockerl-Goldstein, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>MD University of CA Los Angeles 1991</td>
</tr>
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<td>BA Washington Univ in St. Louis 1986</td>
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<tr>
<td>James Andrew Stokes, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD University of Missouri 1984</td>
</tr>
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<td>BA Stanford University 1976</td>
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<tr>
<td>Michael Gary Stone, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Kansas Cty Univ Med Med 2008</td>
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<tr>
<td>Cristina Strong, PHD</td>
<td>Assistant Professor of Medicine (Dermatology) (primary appointment)</td>
<td>PHD University of Alabama 2002</td>
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<tr>
<td>Xinming Su, MS, PHD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>BS Shihezi Medical College 1996</td>
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<td>MS Nanjing Agriculture Univ 2003</td>
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<td>PHD Nanjing Agriculture Univ 2006</td>
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<tr>
<td>Xiong Su, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>Assistant Professor of Cell Biology and Physiology</td>
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<td>PHD Washington Univ in St. Louis 2004</td>
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<td>BS Beijing University 1998</td>
</tr>
<tr>
<td>Hamsa Subramanian, UNKNOWN</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>BS St. Joseph's Convent - Trichy 1986</td>
</tr>
<tr>
<td></td>
<td></td>
<td>UNKNOWN Thanjore Medical College 1990</td>
</tr>
<tr>
<td>Hani Suleiman, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Regensburg University 2007</td>
</tr>
<tr>
<td>Kaharu Sumino, M PA, PHD, MD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>M PA Johns Hopkins University 2008</td>
</tr>
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<td></td>
<td>PHD Yokohama City Univ Sch Med 1999</td>
</tr>
<tr>
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<td>MD Yokohama City Univ Sch Med 1992</td>
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<tr>
<td>William Craig Summers, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD University of AL Birmingham 1999</td>
</tr>
<tr>
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<td>BS University of Alabama 1994</td>
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<tr>
<td>Luis David Sumoza, MD</td>
<td>Instructor in Medicine (Pending Dean's Approval) (primary appointment)</td>
<td>MD University de Carabobo 1990</td>
</tr>
<tr>
<td>Rama Suuresh, MBBS</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>MBBS University of Madras 1993</td>
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<tr>
<td>Rudee Suwannasri, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>BS Chiang Mai University 1971</td>
</tr>
<tr>
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<td>MD Chiang Mai University 1973</td>
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<tr>
<td>Bridgette B Svancarek, MD</td>
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</tbody>
</table>

50
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of MO Columbia 2006
BA Saint Louis University 2001

Reema Hameed Syed, MD
Associate Professor of Medicine (primary appointment)
MD Dow Medical College Karachi 2019

T

Lanesha K Tague, MD
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MD Northwestern University Med 2011
BS Northwestern University 2007

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

Benjamin R Tan, MD
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BS University of the Philippines 1985
MD University of the Philippines 1990

David Tan, MD
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BS Union College Nebraska 1992
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MD Siriraj Medical School 1970

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Shaukat Thanawalla
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J. Allen Thiel, MD
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MD Saint Louis University 1960
BS Rockhurst College 1956

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MD University of Illinois 1990
BS University of Illinois 1982
PHD University of Illinois 1990

Alex Anthony Thomas, MD
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MD University of Louisville 2015

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BS Georgia Tech 2002
MD Mercer University Macon 2009

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BS University of MO Columbia 2005
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MD University of MO Columbia 2010
MS University of MO Columbia 2006

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BS University of Illinois 1984
MD University of Illinois 1988

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BS State University of New York 1976
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BA Grinnell College 1970  
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PHD Washington Univ in St. Louis 1977

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MD University of Verona 2009

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MD Tulane University 1976  
MS Tulane University 1976  
BS Centenary College 1972  
PHD Johns Hopkins University 1982

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MD Marquette University 1982  
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MD UNIVERSITY OF IOANNINA 2005

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MD University of Chicago 1998  
BS University of Illinois 1990  
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MD Emory University 1978  
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MD Univ of Nebraska at Omaha 1976  
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M PH Duke University 1997  
BS University of Texas Austin 1993  
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PHD Washington Univ in St. Louis 1976

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MD Washington Univ in St. Louis 1982  
BS Univ of Wisconsin Madison 1975  
PHD Washington Univ in St. Louis 1982

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Professor of Pathology and Immunology  
MD Keio University 1994  
PHD Keio University 1998

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MD Washington Univ in St. Louis 2001  
BA Cornell University 1996  
MA Washington Univ in St. Louis 2001  
BA1 Cornell University 1996

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

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

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

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**U**

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

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

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

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

**V**

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

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

**Brian Andrew Van Tine, PHD, MD**  
Associate Professor of Medicine (primary appointment)  
BS University of Arizona 1995  
PHD University of AL Birmingham 2005
Gil M Yardi, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Tel-Aviv University 1988

Maria Cristina Vazquez Guillamet, MD
Assistant Professor of Medicine (primary appointment)
MD Carol Davila U of Medicine 2005

Rodrigo Vazquez Guillamet, MD
Associate Professor of Medicine (primary appointment)
MD University of Barcelona 2005

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

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

Aaron Martin Ver Heul, MD, PHD
Instructor in Medicine (primary appointment)
MD University of Iowa 2019
PHD University of Iowa 2019

Amanda K Verma, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Duke University 2013

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

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

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

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

Alessandro Vindigni, MS, PHD
Professor of Medicine (primary appointment)
Professor of Biochemistry and Molecular Biophysics
Professor of Pathology and Immunology
MS University of Padua 1992
PHD University of Padua 1995

John L Visconti, MD
Assistant Professor of Medicine (primary appointment)
BS University of MO St Louis 1986
MD Univ of Health Sciences KC 1990

Benjamin Allen Voss, BA1, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA1 Saint Louis University 2003
MD Creighton University 2007
BA Saint Louis University 2003

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

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

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

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

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

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

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

Matthew John Walter, MD
Edward P. Evans Endowed Professor of Myelodysplastic Syndromes (primary appointment)
Professor of Genetics
BS The American University 1990
MD Saint Louis University 1995

Richard Coburn Walters, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
BS University of Illinois 1969
MD Washington Univ in St. Louis 1973

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

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

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

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

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

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

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

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

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

Scott P Wasserstrom, MA, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Illinois 1990
MA Washington Univ in St. Louis 1995
MD Washington Univ in St. Louis 1995

James Richards Watson, MD
Instructor in Medicine (primary appointment)
MD Virginia Comm University 2016
BS University of Virginia 2006

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

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

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

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

Gary J Weil, MD
Professor of Medicine (primary appointment)
Professor of Molecular Microbiology
BA Harvard University 1971
MD Harvard University 1975

Katherine N Weilbaecher, MD
Oliver M Langenberg Distinguished Professor of Science and Practice of Medicine (primary appointment)
Professor of Cell Biology and Physiology
Professor of Pathology and Immunology
BA Harvard University 1987
MD Stanford University 1992

Carla Joy Weinheimer, MS
Associate Professor of Medicine (primary appointment)
BS University of Illinois 1984
MS Washington Univ in St. Louis 1997

Leonard B Weinstock, MD
Associate Professor of Clinical Medicine (primary appointment)
Assistant Professor of Clinical Surgery (General Surgery)
BA University of Vermont 1977
MD University of Rochester 1981

Steven Jay Weintraub, MS, MD
Associate Professor of Medicine (primary appointment)
BA State Univ of NY Binghampton 1978
MS University of Virginia 1981
MD University of Virginia 1985

Edmond Weisbart
Assistant Professor of Clinical Medicine (primary appointment)

Alan N Weiss, MD
Professor of Medicine (primary appointment)
BA Ohio State University 1963
MD Ohio State University 1966

Edward P Weiss, MS, PHD
Adjunct Research Assistant Professor of Medicine (primary appointment)
MS Southern Illinois University 1992
BS Southern Illinois University 1989
PHD University of Maryland 2003

Mia Chana Weiss, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Tel-Aviv University 2020
BA Smith College 2010

Peter Douglas Weiss, MD
Instructor in Clinical Medicine (primary appointment)
MD Case Western Reserve Univ 1980
BA Harvard University 1975

John Sutton Welch, MD, PHD
Associate Professor of Medicine (primary appointment)
MD San Diego St University 2004
PHD University of CA San Diego 2002
BS Brigham Young University 1995

Lynn Ellis Welling, MD
Adjunct Associate Professor of Medicine (primary appointment)
MD Uniformed Serv Uof Health Sciences 1989

Pamela M. Wendl, DPT, MS
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
Assistant Professor of Orthopaedic Surgery
Assistant Professor of Physical Therapy
DPT Washington Univ in St. Louis 2007
MS Washington Univ in St. Louis 1993
BS North Park College 1991

Alvin S Wenneker, MD
Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1953
BA Washington Univ in St. Louis 1949

Jennifer Marie Wessels, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2009

Peter Westervelt, PHD, MD
Professor of Medicine (primary appointment)
PHD Washington Univ in St. Louis 1992
BA Colby College 1985
MD Washington Univ in St. Louis 1992

Patrick White, MD
Associate Professor of Medicine (primary appointment)
MD Ohio State University 2007
BS Notre Dame College 2002

Michael Peter Whyte, MD
Professor of Medicine (primary appointment)
Professor of Genetics
Professor of Pediatrics

BA New York University 1968
MD State University of New York 1972

Cynthia A Wichelman, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
Course Director for the Mini-Medical School
BA University of California 1982
MD Stanford University 1988

Samuel A Wickline, MD
Terminated Faculty
MD University of Hawaii 1980
BA Pomona College 1974

John F Wiedner, MD
Instructor in Clinical Medicine (primary appointment)
BA Knox College 1982
MD School Not Listed 1985

Deborah A Wienski, MD
Instructor in Clinical Medicine (primary appointment)
BA Smith College 1979
MD Tufts University 1983

Tanya M Wildes, MD
Associate Professor of Medicine (primary appointment)
BS Illinois Wesleyan University 1998
MD Washington Univ in St. Louis 2002

Spencer Gaffney Willet, PHD
Instructor in Medicine (primary appointment)
PHD Vanderbilt University 2014
BS University of Tennessee 2007

Dominique S. Williams, MD
Assistant Professor of Medicine (primary appointment)
BS University of Houston 2008
MD Baylor College of Medicine 2012

George A Williams III, MD, MA
Assistant Professor of Clinical Medicine (primary appointment)
BA University of Notre Dame 1967
MD Univ of Wisconsin Madison 1972
MA Columbia University 1968

Kelley Jo Williams, MD
Instructor in Medicine (Pending Dean’s Approval) (primary appointment)
BA Saint Louis University 2011
MD University of Illinois 2018

Nancy J Williams, MD
Instructor in Clinical Medicine (primary appointment)
BA Dartmouth College 1982
MD University of Kansas 1987

R. Jerome Williams Jr, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Duke University 1977
BA Harvard University 1973  
**Timothy John Williams, MD**  
Instructor in Medicine (primary appointment)  
BA McKendree College 2008  
MD University of Cincinnati 2012  
**Patrick H Win**  
Instructor in Clinical Medicine (primary appointment)  
**Karen Winters, MD**  
Associate Professor of Medicine (primary appointment)  
Director of the Student and Employee Health Service - Medical Campus  
MD Southern Illinois University 1983  
BS Illinois State University 1975  
**Chad Alan Witt, MD**  
Associate Professor of Medicine (primary appointment)  
BS Texas Tech University 2001  
MD University of Texas Southwest 2005  
**Keith Frederic Woeltje, PHD, MD**  
Professor of Medicine (primary appointment)  
PHD Texas Southern University 1991  
BS University of Dallas 1984  
MD Texas Southern University 1991  
**Edward M Wolfe, MD**  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
MD Washington Univ in St. Louis 1960  
BA Hobart College 1956  
**Gerald Wolff, MD**  
Assistant Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1961  
BA Harvard University 1955  
**John A Wood, MD**  
Associate Professor of Clinical Medicine (primary appointment)  
MD University of Oklahoma 1968  
**Megan Elizabeth Wren, MD**  
Professor of Medicine (primary appointment)  
BA Washington Univ in St. Louis 1981  
MD Washington Univ in St. Louis 1985  
**Jeffrey M Wright, MD**  
Assistant Professor of Clinical Medicine (primary appointment)  
Assistant Professor of Clinical Pediatrics  
BS Vanderbilt University 1975  
MD Washington Univ in St. Louis 1979  
**Haojia Wu, PHD**  
Assistant Professor of Medicine (primary appointment)  
BS Sun Yat-Sen University 2007  
PHD University of Hong Kong 2014  
**Kangyun Wu, PHD**  
Instructor in Medicine (primary appointment)  
PHD Beijing University 2007  
**Xiaobo Wu, MD**  
Associate Professor of Medicine (primary appointment)  
MD Tongji University 1986  
**Matthew A Wyczalkowski, MME, PHD**  
Instructor in Medicine (primary appointment)  
BS Pennsylvania State University 1996  
MME University of CA Berkeley 2000  
PHD Washington Univ in St. Louis 2009  
**X**  
**Jun Xia, PHD**  
Instructor in Medicine (primary appointment)  
PHD University of Illinois 2006  
**Zhifu Xiang, PHD, MD**  
Associate Professor of Medicine (primary appointment)  
PHD Tongji University 1998  
MD Tongji University 1990  
**Yan Xie, MS, MD**  
Instructor in Medicine (primary appointment)  
MS Hubel Medical University 1991  
MD Tongji University 1986  
**Naga M Yalla, MD**  
Assistant Professor of Medicine (primary appointment)  
MD SRTR Medical College 2005  
**Timothy Teng-Kay Yau, MD**  
Associate Professor of Medicine (primary appointment)  
BA Saint Louis University 2001  
MD Saint Louis University 2005  
**Derek Yee, MD**  
Instructor in Medicine (primary appointment)  
MD Rutgers University 2014  
**Debra Wendy Yen, MD**  
Instructor in Medicine (primary appointment)  
BS Washington Univ in St. Louis 2013  
MD Washington Univ in St. Louis 2017  
**Po-Yin Yen, PHD, MS**  
Associate Professor of Medicine (primary appointment)  
BS National Cheng Kung University 2001  
PHD Columbia University 2010  
MS Oregon Health Science Univers 2005  
**Wayne M Yokoyama, MD**  
Sam and Audrey Loew Levin Professor of Medicine (Rheumatology) (primary appointment)  
Professor of Pathology and Immunology  
MD University of Hawaii 1978  
BA University of Rochester 1974  
**Jun Yoshino, MD, PHD**
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Developmental Biology
MD Keio University 2000
PHD Keio University 2004

Mihoko Yoshino, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD Keio University 2000
PHD Shimane Medical University 2006

Danicela Younce, MD
Instructor in Medicine (primary appointment)
MD University North Carolina 2014
BS University North Carolina 2008

Eman B Yousif, MD
Instructor in Medicine (primary appointment)
BA Northwestern University 2013
MD University of Illinois 2017

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

Roger D. Yusen, MD, MPH
Associate Professor of Medicine (primary appointment)
MD University of Illinois 1990
BS University of Illinois 1986
MPH Saint Louis University 2002

Z

Alan Zajarias, MD
Professor of Medicine (primary appointment)
Professor of Surgery (Cardiothoracic Surgery)
MD National Autonomous U of Mex 2000

John F. Zalewski, MD
Instructor in Clinical Medicine (primary appointment)
MD State Univ of NY Buffalo 1980
BS Clarkson University 1973

Nichole Gallegos Zehnder, MD
Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
Associate Dean for Education Strategy
MD University of Rochester 2006

Kathleen W Zhang, MD
Assistant Professor of Medicine (primary appointment)
MD University of Pennsylvania 2013

Qiang Zhang, MCHEM, PHD
Instructor in Medicine (primary appointment)
MCHEM Xiamen University 1998
PHD University of CA Santa Barbara 2003
BS Xiamen University 1995

Rong Mei Zhang, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MD Medical College of Wisconsin 2011
BS University of Wisconsin - Madi 2005

Yong Zhang, MD, MS, PHD
Assistant Professor of Medicine (primary appointment)
MD Anhui Medical University 1978
MS Sun Yat-Sen University 1983
PHD Albert Ludwig University 1999

Diana Yi Zhao, PHD, MD
Instructor in Medicine (primary appointment)
PHD Washington Univ in St. Louis 2017
BS University of Chicago 2008
MD Washington Univ in St. Louis 2017

Peter Chen Zhao, MD
Instructor in Medicine (primary appointment)
BS Emory University 2011
MD Washington Univ in St. Louis 2015

Amy Wei Wei Zhou, MD
Assistant Professor of Medicine (primary appointment)
BS University of Michigan 2005
MD Wayne State University 2009

Lisa Ann Zickuhr, MD
Assistant Professor of Medicine (primary appointment)
BS University of Notre Dame 2008
MD Northwestern University Med 2012

Robert E Ziegler, PHD, MD
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
PHD Duke University 1980
BA University of Colorado Boulder 1972
MD Duke University 1980

Ofer Zimmerman
Instructor in Medicine (primary appointment)

Research Electives

Medicine Research Electives

During the fourth year, opportunities exist for many varieties of advanced clinical or research experiences.

For information about Primary Care Summer Preceptorships (p. 61), please refer to the information at the bottom of this section.

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

Research in this translational physiology laboratory is focused on the development of novel antithrombotic approaches for use during acute myocardial infarction, stroke, and surgery in which 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

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

Our focus is on the genetic pathways of 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 United States, 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.

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

Our primary interest is on occupational medicine epidemiology and intervention research. Our research involves the use of epidemiology methods to characterize associations between diseases and work-related exposures. We are also doing workplace intervention studies to prevent injuries and illnesses and to improve healthy diet and physical activity among working populations. During an elective in occupational medicine epidemiology research, students will learn how to use epidemiologic methods to investigate disease processes by working on a mutually agreed-on topic of interest related to occupational diseases. Other activities can include worksite visits and intervention projects as well as involvement with worksite 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; roles of phospholipases in mediating the metabolic syndrome and end-organ tissue damage.

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

Emergency medicine clinical research is the primary focus of this lab. This type of research involves the gamut of research designs, 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 the analysis of 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 of minimal risk. Students will be taught important rules regarding data acquisition and entry, particularly as these relate 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 time commitment. Students will meet weekly with one of the course directors to discuss study progress and to identify any roadblocks to study completion. These meetings will also serve as a forum for one-on-one education of the student regarding study methodology, ethical issues in research, and various resources available to the clinical researcher at Washington University.

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

This experience is geared toward students with math, physics and engineering backgrounds. The cardiovascular biophysics research elective concentrates on physiologic modeling and the comparison of model predictions to in vivo human data. The minimum elective time is eight weeks.

Marc S. Levin, MD, and Deborah C. Rubin, MD  
922/924 Clinical Sciences Research Building  
Phone: 314-362-8933 or 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 the 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 after 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 they relate 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 the production of transgenic and knockout mouse models, in situ hybridization and immunohistochemistry.

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

We investigate the differentiation of epithelial stem cells in the upper gastrointestinal 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 the following: (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 organellar expansion of specialized secretory cells as they differentiate from stem cells; and (3) understanding the mechanisms that regulate how differentiated cells can be reprogrammed into stem cells in gastrointestinal organs like the stomach and the pancreas.

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

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

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

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

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

The focus of this lab is on gene therapy for 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 that results in expression sufficient to reduce many of the clinical manifestations of these genetic diseases. Current studies focus on assessing the therapeutic effect of gene therapy on sites that are affected in MPS (e.g., heart, aorta, bones, joints) and on 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; 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  
pstein@wustl.edu

This lab’s main focus is on the clinical significance of heart rate variability and ECG-derived waveform parameters obtained from continuous ambulatory monitoring. This elective affords the student 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 using 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 to developing methods to quantify ultradian heart rate variability patterns to developing novel ECG analysis techniques, among others. 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 more than 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 patients from the CHS and from 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 of the relationship of heart rate variability with changes in heart rate variability over time and with 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 after cardiac surgery as well as data from a study of the treatment of depression in treatment-resistant depressed post-MI patients, a study of sickle cell patients, and a study of heart rate variability and echo parameters in elderly African Americans. Currently, we are also analyzing HRV in premature infants as they mature and 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 for about 20,000 subjects for whom continuous ECGs from Holter recordings, sleep studies, and ICU studies are available, as well as some mouse data, the student will be able to choose a project that may lead 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 is the main focus of this lab. Experience with the mass spectrometric analysis of complex lipids is available.
learn to: 1. Perform a complete history and physical examination in the clinic. What are the educational goals of POM I? Students will develop the skill of interviewing patients, gaining the patient’s history, and performing the physical examination. This includes observation of behaviors, making notes of speech patterns, and communicating effectively with the patient. Setting up and conducting a physical examination may include taking vital signs, and observing the patient’s movements and general appearance. 2. Patient, Physician, and Society 3. Clinical Knowledge Each year. It is composed of three content areas: 1. Clinical Skills 2. Patient, Physician, and Society 3. Clinical Knowledge.

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

Primary Care Summer Preceptorships
Since 1996, the School of Medicine has sponsored a primary care preceptorship program for medical 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.

Courses
Courses include the following:
- M25 Medicine (p. 61)
- M27 Emergency Medicine (p. 68)

M25 Medicine

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

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

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

M25 Medicine 607 Practice of Medicine II
The goal of The Practice of Medicine (POM) course is to provide students with the knowledge, skills and attitudes essential to patient care regardless of specialty. POM II is a continuation of POM I and will continue to address various interfaces between patient, physicians and society and will also introduce the advanced physical exam and approaches to clinical thinking and decision-making. The sections of POM II include Clinical Skills,
M25 Medicine 611B Cardiovascular Disease
Cardiovascular disease remains the number one cause of death within the United States, although steady advances in the field have greatly reduced both its associated morbidity and mortality. This course provides a foundation for understanding the pathophysiology, diagnosis, and management of cardiovascular conditions commonly encountered in clinical practice, including hypertension, ischemic heart disease, heart failure, arrhythmias, valvular heart disease, pericardial diseases, aortic diseases, peripheral arterial disease, and venous disorders. An emphasis is placed on describing the current state of knowledge in cardiology while also including some of the exciting new developments that are revolutionizing patient care. The course includes lecture overviews of each topic along with small group and team-based learning sessions to solidify and apply knowledge of the material to patient case scenarios. In addition, EKGs of the Week allow students to practice a structured approach to the interpretation of EKGs.
Credit 30 units.

M25 Medicine 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 32 units.

M25 Medicine 620A Gastroint. and Liver Diseases/Nutrition
This course discusses the pathophysiological mechanisms underlying diseases of the gastrointestinal tract including esophagus, stomach, small and large intestines, liver, gall bladder and pancreas. A series of lectures related to nutrition and the impact of nutritional disorders on health and disease are also included. Lectures are supplemented by group seminars that include discussion of clinical case presentations.
Credit 39 units.

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

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

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

M25 Medicine 710 Medicine Clerkship
The Medicine clerkship provides supervised study of patients in both inpatient and ambulatory settings. For the inpatient rotations, students are assigned as clinical clerks to patients admitted to the general medical teaching services of Barnes-Jewish Hospital and Veterans Administration Medical Center. For the outpatient rotations, students learn primary care in internal medicine and family medicine clinics at Barnes-Jewish hospital or community-based practices. Teaching is
provided by the Chief of Service, attending Physicians, House Officers, consultants, Chief Residents and regularly scheduled conferences. Formal instruction is given regarding core internal medicine topics during the clerkship. A minimum of 12 weeks is required: 3 consecutive 4-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 4 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 4 hours of conferences per week (8:00 - 10:00 AM 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 740 Dermatology Clerkship
The goal of the dermatology clerkship is to provide a guide for the student to appreciate dermatology within the broader perspectives of medicine and biology. The student will develop familiarity with dermatologic vocabulary, learn to recognize and initiate therapeutic approaches to common dermatologic disorders and become cognizant of uncommon or complicated dermatologic problems that require specialty care. Emphasis will be placed on careful history taking and physical examination. Students will always work under the direction of the resident physician and the attending physicians in the clinic setting.

Credit 154 units.

M25 Medicine 750 Geriatrics Clerkship
The primary goal of this rotation is for students to gain proficiency in the principles of geriatric evaluation and management, including the medical, psychological, social, and functional assessments of older adults. Students are expected to participate in the evaluation of three to five patients per week, in a variety of settings including the outpatient Geriatric Assessment Clinic, in-patient 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. Many clinical activities are off-site from the medical campus. Students will be required to coordinate transportation to and from such sites. Students will be expected to give an oral presentation on a topic of their choice once during the rotation.

Credit 154 units.

M25 Medicine 801 General Medicine Subinternship - BJH
The purpose of the General Medicine Subinternship is the development of expertise in the care of hospitalized patients in a well-supervised teaching environment. Subinterns act as their patients’ interns under the supervision of residents and attending physicians. Subinterns 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. Subinterns are not required to spend call nights in the hospital. Except in emergencies, subinterns 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. Subinterns 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. Subinterns attend the same conferences as the house staff.

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

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

**M25 Medicine 810 Geriatric Medicine**
The primary goal of this rotation is for students to gain proficiency in the principles of geriatric evaluation and management, including the medical, psychological, social, and functional assessments of older adults. Students are expected to participate in the evaluation of two to ten patients per day, in a variety of settings including the outpatient Geriatric Assessment Clinic, inpatient Geriatric Consult service, outpatient Geriatric Medicine Primary Care clinics, VA Home-Based Primary Care, and Parc Provence Nursing Home. 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 am and is usually finished by 5:30 pm. There is no night or weekend call. Time is provided to read the detailed syllabus/bibliography. Many clinical activities are off-site from the medical campus; students will be required to coordinate transportation to and from such sites. Students will be expected to give an oral presentation on a topic of their choice once during the rotation.

**M25 Medicine 811 Hospitalist Subinternship**
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. S/he 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 811A Clinical Internal Medicine: Hospitalist**
This course allows the student to work one-on-one with hospitalist physicians on a patient care team. Daily responsibilities include admission history and physicals, daily notes, and discharge summaries for assigned patients. Students will also have the opportunity to perform indicated procedures on patients on this service. Students are encouraged to participate in Department of Medicine conferences.

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

**M25 Medicine 822 Cardiology Subinternship**
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**
Students will be members of the Cardiac Electrophysiology Consultation Team, which includes faculty members, fellows, residents, and nurse practitioners. The student will serve as the primary assessor for consultations and will, in concert with the rest of the team, complete the patient’s assessment and initiation recommendations and plan, as well as follow up. There is an emphasis on ECG evaluation and gaining familiarity with indications and details of arrhythmia therapeutics, including catheter ablation procedures, implantable device procedures, assessment, and programming, as well as antiarrhythmic drug therapy.
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 inpatient rounds, trainees are invited to attend both heart failure and transplant clinics. Further, the curriculum is supplemented by a syllabus that contains the critical literature pertinent to this patient population. The trainees will also have experience with the evaluation of patients for operative heart failure therapies and will have the opportunity to observe these surgical procedures.

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

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

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

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

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

M25 Medicine 847 Bone and Mineral Diseases
The course is designed to acquaint the student with the clinical, radiological and pathological manifestations and treatment of disorders of bone and mineral metabolism, including osteoporosis, Paget's disease of bone, hyperparathyroidism, osteomalacia, and more rare disorders of bone development and homeostasis. The student will rotate through clinics of the Division of Bone and Mineral Diseases, and see patients at Barnes-Jewish Hospital, Barnes-Jewish West County Hospital and Shriners Hospital for Children. Acquired and heritable bone diseases will be studied in the context of derangements of mineral homeostasis with emphasis on vitamin D and peptide hormone metabolism and skeletal formation and remodeling. The role of non-invasive methods for measuring bone mass in the diagnosis and management of skeletal 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 849 Sun Protection Outreach Teaching by Students (SPOTS)
Students will teach public and private middle school and or high school students in the St. Louis area about skin cancer and sun protection. SPOTS courses are taught in 60- to 90-minute sessions. The program involves delivering a PowerPoint presentation with a prewritten script, interactive games, a video, and hands-on demonstrations. The elective is open to students who are new to this program, as well as students who previously participated in the SPOTS first-year selective. Students new to SPOTS are required to attend two evening training sessions (2.5 hours each) to learn the content of the program, as well as teaching strategies. For students who have taught SPOTS before, only one evening session is required. Training sessions for all enrolled students occur in the fall. A winter training session can be added if needed. Students will teach 4 SPOTS session per week of elective credit (8 sessions total). Students participating in the elective need to arrange for their own transportation to teaching sessions. Sessions are typically taught by students in pairs. Learning objectives: 1. Demonstrate knowledge of basic principles of skin cancer, including how to detect skin cancer and how to decrease risk with photoprotection. 2. Effectively communicate this knowledge to children/adolescents.
M25 Medicine 853 Bone and Joint Infectious Diseases
Study of infectious diseases of the bones and joints, including infections in both native and prosthetic joints. The elective is designed to teach students the fundamentals of evaluating clinical orthopedic infections and formulating plans for workup and therapy. Students see consultations in infectious diseases in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with the infectious diseases attending and nurse practitioner, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics and antifungal agents. The role of surgical and medical management is discussed, and the students will interact with surgical staff in understanding the risks and outcomes of these common infections. Two weeks of General Inpatient Infectious Disease are a prerequisite to this course.

M25 Medicine 854 Transplant Infectious Diseases
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 setting, acute and chronic infections, infection prophylaxis and monitoring and interactions between immunosuppressive agents and antibiotics.

M25 Medicine 855 Ambulatory Infectious Diseases
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 and interact with ID fellows and Internal medicine residents. Students will participate in the care of HIV-infected or otherwise immunosuppressed patients as well as general infectious disease patients. The clinic is the primary provider for many HIV-infected patients, and students will learn the pathogenesis of HIV, become familiar with most antiretroviral medications, and have the opportunity to learn about opportunistic infections and their prophylaxis. They will also have the opportunity to see patients with bone and joint infections, endovascular infections, endemic and opportunistic mycoses, mycobacterial infections, sexually transmitted diseases, and many other infections. Patients seen will have a wide range of acute and chronic infections, and will include indigent and insured patients across a wide range of ages. The students will play an important role in the management of these patients and will present their assessments and plans to the supervising attending. They are expected to write clinic notes, read the literature about their patients, and participate in clinical conferences.

M25 Medicine 859 General Inpatient Infectious Diseases
This elective allows students to participate in the management of patients with a wide variety of infections in the inpatient setting. The elective is designed to teach students the fundamentals of evaluating clinical problems in infection and formulating plans for diagnosis and management. 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, conferences, and lectures in infectious diseases. They see a wide variety of infection diseases including community acquired acute and chronic infections, surgical infections, opportunistic infections in HIV-infected patients and other immunocompromised hosts, hospital-acquired infections, and basic infection control practices. They also learn appropriate use of antibiotics, antifungal and antiviral agents.

M25 Medicine 861 Oncology - Inpatient Consult Service
Medical Oncology is a complex subspecialty that is undergoing a rapid evolution as a result of new systemic treatment approaches that stem from biological insights into the nature of cancer. During the course of the elective, medical students will be able to interact with attending physicians and patients for bed side teaching and attend tumor boards and lectures focused on the care of patients with solid tumors. At the end of the rotation, the students will appreciate the principles of our approach to cancer patients and should have gained insights into the evaluation and management of patients with newly diagnosed malignancies. The role of surgery, radiation, and systemic treatment will also be an important theme, as well as the conduct of clinical research in this patient population. Students will also learn to care for hospitalized patients suffering from complications from their cancer or from toxicities due to treatments. Oncologic emergencies will be covered, issues such as palliative care treatment options and end-of-life decision making will be explored as well.

M25 Medicine 867 Medical Intensive Care
The Medical Intensive Care Unit Elective is designed to introduce senior medical students to cognitive and procedural aspects of critical care medicine. Students will be expected to learn the basic pathophysiology and treatment approaches to respiratory failure, shock states and metabolic derangements. Participation in procedures will be encouraged as available. Dynamics of difficult conversations with patients and family members will also be modeled and discussed. Clinical responsibilities will occur as a part of a team and students will be expected to participate in admissions and daily follow-up on assigned patients. Teaching will occur via didactic lectures on weekdays and formal patient discussions on rounds.

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 BJHC Palliative Care Service. Based on the individual student's interest, there may also be opportunities to work with the BJHC Hospice Team and the St. Louis Children's Hospital Pediatric Advance Care Team. Students wishing to work with either team should contact the
Course Director and Administrative Contact, as well as the Instructors of the appropriate team, will as much advance notice as possible to trainee spots are very limited for both. 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 participate in bi-weekly presentations/group discussions on selected aspects of Palliative Medicine with the BJH Palliative Care team. Students will also be required to give a 20-minute presentation to the BJH Palliative Care team at the end of their rotation.

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 his or her career goals. At the end of the rotation, it is expected that students will have the ability to initiate inpatient and outpatient management of diabetes including insulin dosing and glucose monitoring, as well as evaluate and treat a variety of endocrine disorders including but not limited to thyroid, pituitary, and adrenal disease. Students will learn to perform effective inpatient and outpatient consultations.

M25 Medicine 871 Oncology - Outpatient

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

M25 Medicine 877 Intensive ECG Interpretation

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

M25 Medicine 879 Pulmonary Clinic for the Underserved

Clinical setting: Outpatient Clinic dedicated to providing pulmonary specialty care to patients who are predominantly uninsured or who rely upon public assistance such as Medicaid.

Student role: Students independently interview and examine patients and present findings to the attending, tests and imaging are reviewed, and provider and attending develop plan. Common problems/diseases: Asthma, COPD, sarcoidosis, lung cancer, and obstructive sleep apnea are commonly seen. Also, patients are referred for evaluation of abnormal x-rays and for symptoms such as dyspnea. Primary learning objectives: - to understand and practice important history and exam skills in pulmonary medicine: symptoms, smoking history, work and environmental exposures, and important pulmonary physical exam findings. - to understand the basics of pulmonary function tests, chest imaging, and methods for tissue sampling. - to understand the basis of treatment of common pulmonary disorders.

Conferences: There is no conference associated with this clinic, but students may attend the usual Thursday morning Medicine Grand Rounds at 8:00 am and the Pulmonary Grand Rounds at 11:00 am if the subject matter is appropriate.

M25 Medicine 880 Pulmonary Medicine - Barnes-Jewish Hospital

Students will acquire skills in the evaluation and management of patients with pulmonary diseases and in the interpretation of pulmonary function tests. They will gain experience in outpatient Lung Center and attend regular pulmonary and critical care medicine conferences.

M25 Medicine 884 Bone Marrow Transplantation and Stem Cell Biology

Intense four-week clinical rotation exposing interested fourth-year medical students to the clinical world of bone marrow transplantation and to the basic science of hematopoiesis, leukemia, stem cell biology, and gene and cellular therapy including chimeric antigen receptor (CAR) Tcell therapies. 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 890 Clinical Nephrology

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

M25 Medicine 890A Kidney Transplant
Students participating in this elective will: - gain exposure to end-stage renal disease and the treatment options, - examine kidney transplantation as the most valuable option, - learn about immunosuppression, and - gain exposure to infectious diseases like CMV, BK, and adeno virus that are commonly seen in patients that have had a kidney transplant (and not often seen otherwise).

M25 Medicine 893 Adult Allergy and Clinical Immunology
Students will participate in the outpatient Allergy Clinics located in Barnes Jewish Hospital Center for Advanced Medicine, Barnes Jewish West County, and Center for Advanced Medicine South County. Students will participate in allergy skin testing, pulmonary function testing, and drug desensitization. They will have the opportunity to see patients with allergic rhinitis, asthma, hives, food allergy, immunodeficiency, eosinophilic esophagitis, hereditary angioedema, mastocytosis, contact allergic dermatitis, eczema, and more. They can attend allergy conferences on Thursday morning. Students have the option to follow a fellow and see inpatient consults at Barnes Jewish Hospital.

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

M27 Emergency Medicine

M27 EMED 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 about 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), and attendance is mandatory. Discussions are generally underway to allow students to participate in helicopter rides 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, the "bread and butter" medical/surgical problems. Students do a 15-minute case presentation at the close of the block. Credit 154 units.

M27 EMED 801 Emergency Medicine Subinternship
This rotation offers practical experience in the evaluation and management of acutely sick and injured patients. Students will function as subinterns, 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 the 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) to gain maximum exposure to all types of emergencies. A core content of lectures will be provided. Students will gain an understanding of other disciplines closely associated with Emergency Medicine by doing rotations with either social work, nursing, physical therapy, or respiratory therapy. Students will also gain knowledge of the triage system during their time in the department. If schedules allow, 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 WUMS-IV Emergency Medicine Subinternship. 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.

M27 EMED 810 Medical Toxicology
This rotation offers practical experience in the evaluation and management of the acutely ill, poisoned, or intoxicated patient. Students will function as subinterns and either report to a senior resident, a 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 or who have substance use disorders, 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. While not required, students are welcome to come in during their off hours to see new consults and enhance their experience and learning. 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 and addiction medicine clinic. Students will also have the opportunity to go to the Missouri Poison Center. Students desiring a letter of recommendation from one of the toxicology attendings (who are also Emergency Medicine attendings) or who are 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 to the number of days off that can be taken 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.

M27 EMED 820 Emergency Ultrasound
Point-of-care ultrasound has become an integral diagnostic and procedural tool for nearly every clinical specialty. Ultrasound examination at the bedside is noninvasive, painless, and repeatable, unlike many other common diagnostic tests. However, like all procedures, developing ultrasound skills takes a significant amount of practice and experience. This rotation will focus on clinical ultrasound image acquisition and interpretation at the bedside. 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, ocular, cardiac ultrasound, and DVT. Students will be involved in direct patient care during this rotation as part of the ultrasound team in the Emergency Department. In general, the student will be in the Emergency Department during weekdays to perform these exams. In addition, the student will meet with the elective instructor approximately once per week to review images or for direct hands-on instruction. At the end of the rotation, the student should be able to obtain images for basic point-of-care ultrasound examinations and to interpret those images for diagnostic purposes. Students may also have opportunity to practice ultrasound-guided procedures during the rotation.