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:

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Adolphus Busch Professor of Medicine and Chair

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

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Chief, Division of Palliative Care Medicine

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

A

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BS California State Fresno 1986

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Instructor in Clinical Medicine (primary appointment)

Andy Chuu, MD
Assistant Professor of Medicine (primary appointment)
BA University of MO St Louis 2010
MD University of Arizona 2015

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

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

Roberto Civitelli, MD
Assistant Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
Professor of Orthopaedic Surgery
MD University of Siena 1980
BS University of Siena 1980

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

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

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

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

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

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

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

Roger Barto Cole, MS, PHD, MD
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

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

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

Daniel Horatio Cooper, MD
Assistant Professor of Clinical 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

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

Dominique Leah Cosco, MD
Associate Professor of Medicine (primary appointment)
MD Tulane University 2005

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

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

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

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

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

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

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

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

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

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MD Harvard University 1965
BA Harvard University 1960

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

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Assistant Professor of Medicine (primary appointment)
MD Universidad Automoma de Madrid 2009

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Professor Emeritus of Medicine (primary appointment)
Adjunct Professor of Medicine
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)
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PHD Washington Univ in St. Louis 1998
BA Vanderbilt University 1983
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MD Saint Louis University 2005
BS Williams College 1995
MS San Francisco St University 1998

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MD University of Rochester 1974

D

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MD Washington Univ in St. Louis 2013

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PHD Saint Louis University 2009

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BS HANOI U OF SCIENCE AND TECH 2003
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BS Howard University 1985
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MD Northeast Ohio Medical U 2016
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MD Sindh Medical College 1987

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MBBS Guntur Medical College 1985

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MD University College of Med Sci 1986

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Professor of Medicine (primary appointment)
Professor of Developmental Biology
MBBS King's College London 1974

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Professor of Anesthesiology
Professor of Radiology
MD University of Puerto Rico 1981
BS University of Puerto Rico 1977

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MSN Arizona State University 2000
BS Randolph Macon College 1997
MD St George’s University 2004

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BS Cornell University 2009
MD Northwestern University Med 2014

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MD University of Kentucky 1999
BS Morehead St University 1994

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Professor of Medicine
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Associate Professor of Biostatistics
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BA Bowdoin College 1986
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BA University of Missouri 1984  
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BA University of Texas Austin 2008  
MD Univ of Texas Med Sch Houston 2014  
BA University of Texas Austin 2008  

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MBCHB Misurate University 2006  

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Professor of Medicine (primary appointment)  
Professor of Genetics  
PHD University of Utah 1998  

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

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MD Washington Univ in St. Louis 1988  
BS University of Notre Dame 1984  

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Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  

Professor of Obstetrics and Gynecology  
MD All-India Inst of Medical Sci 1997  

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

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

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

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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 Needelman Professor of Medicine (primary appointment)  
MD Medical University of Sth Car 1981  

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

Nicole Camille Droz, MD  
Assistant Professor of Medicine (primary appointment)  
MD Creighton University 2013  

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

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

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

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

Edward Harry DuMontier
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

William Charles Eades Jr, BEE
Associate Professor of Medicine (primary appointment)
BEE MO S&T (formerly UoFM 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)
BS University of Alabama 2013

MD University of South Alabama 2017

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

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

Stilianos Efstratiadis
Assistant Professor of Clinical Medicine (primary appointment)

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

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

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)
BA Reed College 1963
MD Washington Univ in St. Louis 1966
MS Harvard University 1989

Linda G Eisenberg, 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

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

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

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

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

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

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

James Michael Epstein, MD
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)
BS University of the Philippines 1999
MD University of the Philippines 2004

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

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

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

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

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

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

Gregory A Ewald, MD
Professor of Medicine (primary appointment)

MD Northwestern University 1989
BS University of Illinois 1985

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

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

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Assistant Professor of Clinical Medicine (primary appointment)

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

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

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

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

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

Mark A Fiala, MSW
Instructor in Medicine (primary appointment)
BS Southeast Missouri St Univers 2006
MSW Washington Univ in St. Louis 2017

Kathryn Lynn Filson, MD
Instructor in Medicine (primary appointment)
MD Southern Illinois University 2015

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

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

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

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

Sean C. Fitzmaurice, MD
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
BS Xavier University 1981
MD Saint Louis University 1985

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

Peter Joseph Fletcher, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
MD Univ Texas Health Sci San Anto 2015
BS Texas A&M University 2009

Jaime Eduardo Flores-Ruiz, MD
Instructor in Medicine (primary appointment)
MD University of Puerto Rico 2015

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

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

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

Nickole A Forget, MD
Assistant Professor of Medicine (primary appointment)
MD Saint Louis University 1996

Glennon Joseph Fox, MD
Instructor in Clinical Medicine (primary appointment)

MD University of MO Columbia 1984

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

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Instructor in Medicine (primary appointment)
BS University of Naples 2010
PHD University of Naples 2016
MS University of Naples 2012

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Head of the Department of Internal Medicine
BS William Woods College 1978
MD University of MO Columbia 1983

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

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

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

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

Stephen Fuest, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2017

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

Steven Daniel Funk, PHD
Instructor in Medicine (primary appointment)
BS University of Louisiana 2005
PHD Louisiana St University 2013

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

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

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

Joseph Lee Galkowski, DOST
Instructor in Emergency Medicine in Medicine (primary appointment)
BS University of MO Columbia 1990
DOST Kansas City Univ Med/Bioscience 1994

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Assistant Professor of Medicine (primary appointment)
BA Osmania Medical College 2014
MD University of Chicago 2010
MA Eastern Kentucky University 2007

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Professor of Medicine (primary appointment)
Professor of Pediatrics
MBCHB Bristol University 1977
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MD University of Illinois 1990
MBA University of MO St Louis 1998
BA Carleton College 1985

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Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD UN Nacional Autonoma De Mex 2004

Jacquelyn B Garrett, MD
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MD Howard University 1985
BS Howard University 1983

Francisco J Garriga, MD
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MD Washington Univ in St. Louis 1970
BS University of Puerto Rico 1966

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Instructor in Clinical Medicine (primary appointment)
BS University of Santo Tomas 1970
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MD University of Chicago 1970

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MD Washington Univ in St. Louis 1981
BA Cornell College 1977

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

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MD University of Minnesota 2020
BS University of Michigan 2009

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

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Assistant Professor of Medicine (primary appointment)
MBBS Christian Medical College 1998

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

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Assistant Professor of Medicine (primary appointment)
MD Midwestern University 2012

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MD University of MO Columbia 2003

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BS Whitman College 1994
MD Creighton University 2001

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BS University of Illinois 2001
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BS University of Illinois 1985
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MD University of Maryland 1977
BA Harvard University 1973

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

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

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MD Washington Univ in St. Louis 1964
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BS University of Puerto Rico 2004
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BS University of Nebraska 1970
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BA Lehigh University 1979
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MBA Washington Univ in St. Louis 1996
BA Saint Louis University 1981
MD Southern Illinois University 1984

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Professor of Developmental Biology
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BS Iowa State University 1971

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MD Ohio State University 2014

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

Malachi Griffith, PhD, BS
Associate Professor of Medicine (primary appointment)
Associate Professor of Genetics
BS University of Wisconsin-Madison 2010
BS1 University of Wisconsin 2002

Obi Lee Griffith, PhD
Associate Professor of Medicine (primary appointment)
Associate Professor of Genetics
BS University of Wisconsin-Madison 2002
PHD University of British Columbia 2008

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

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

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

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)
BS University of Wisconsin-Madison 2011
DOST Des Moines University 2017

Gunar 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)
BS School Not Listed 1975

MD School Not Listed 1982

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

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

Kamal Gursahani, MD, MBA
Associate Professor of Medicine in Emergency Medicine (primary appointment)
MD University of Missouri Columbia 2002
BA Columbia University 1997
MBA Saint Louis University 2012

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

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

H

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

Zachary T Hafez, MA, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
BA Univ of Illinois-Urbana-Champaign 2006
MA Univ of Illinois-Urbana-Champaign 2008
MD University of Missouri Columbia 2014

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

Jennifer Christine Hagopian
Adjunct Instructor in Medicine (primary appointment)

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

Ilia Gueorguiev Halatchev, MD
Assistant Professor of Medicine (primary appointment)
MD Oregon Health Science University 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, MD
Instructor in Medicine (primary appointment)
MD American University of Beirut 2020

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)
MS Missouri College 2010
BA University of Evansville 2004
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, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD Case Western Reserve Univ 2010
PHD Case Western Reserve Univ 2008

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)
MD New York U. School of Medicine 2003
BS Binghamton University 1994
PHD New York U. School of Medicine 2001

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

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

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

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

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

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

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

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

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

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

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

Karin Hickey, MD
Assistant Professor of Medicine (primary appointment)
MD Lulu Hatieganu U of Med 2007

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

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

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

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

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

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

Matifadza G Hlatshwayo, BS1, MD, M PH
Instructor in Medicine (primary appointment)
BS1 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)
MA University of Wisconsin 2013
MD University of Minnesota 2010
BS Northwestern University 2006

Melissa Louise Hollie
Instructor in Clinical Medicine (primary appointment)

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

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

Neal Holzum
Instructor in Clinical Medicine (primary appointment)

Hitoshi Honda
Adjunct Assistant Professor of Medicine (primary appointment)

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

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

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

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

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

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

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

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

David Thomas Howell
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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
BS Stanford University 2002
MD University of Pennsylvania 2009

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

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

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)
MD University of Missouri 1982
BS Southeast Missouri St Univers 1978

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)
MD University of Arizona 2016
BS Cornell College 2011

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

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

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

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

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

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

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

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

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)
BA Indiana University Purdue 2011
BS Indiana University Purdue 2011
MD Washington Univ in St. Louis 2015

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

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

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

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

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

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

**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 Johanss, PhD, MD**
Assistant Professor of Medicine (primary appointment)
BS University of Saint Thomas 2002
PHD University of Minnesota 2010
MD University of Minnesota 2012

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

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

**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)
BS Michigan State University 2007
MD University of Texas Galveston 2011

**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)

MD Vanderbilt University 1986
BA Johnston Community College 1977

**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)
MD Tufts University 1994
BS University of Wisconsin-Madiso 1989

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

**Lalit Chandra Kalvala, MBBS**
Instructor in Medicine (primary appointment)
MBBS Kakatiya Medical College 2016

**Sona Sharad Kamat**
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

**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)
PHD University of Minnesota 2015
BS University of Minnesota 2008

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)
BA Brown University 1986
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
BA Washington Univ in St. Louis 1997
MD University of Chicago 2005
PHD University of Chicago 2003

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

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

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

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

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

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

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

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

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)
BA Agnes Scott College 1984
PHD Washington Univ in St. Louis 1992
MD Washington Univ in St. Louis 1992

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

Ahmed Sultan Khan
Adjunct Instructor in Medicine (primary appointment)

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

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

Thomas B Kibby, MD, MPH
Instructor in Emergency Medicine in Medicine (primary appointment)
MD Eastern Virginia Medchool 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, AS, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA University of California 1985
AS Long Beach City College 1976
MD University of California 1990

Kenneth Richard Kilian, MD
Instructor in Clinical Medicine (primary appointment)
BS Saint Louis University 1980
MD Saint Louis University 1990

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

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

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

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

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

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

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

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

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

Tinna P King
Instructor in Clinical Medicine (primary appointment)
BA University of Missouri 1988

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

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

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

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

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

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

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

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

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

Eric Knoche, MD
Assistant Professor of Medicine (primary appointment)
BS Davidson College 2001
MD Washington Univ in St. Louis 2006
Carolyn Koenig, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2002

Adam C Koertner
Instructor in Clinical Emergency Medicine in Medicine (primary appointment)

Ismail Kola, PHD, UNKNOWN
Adjunct Professor of Medicine (primary appointment)
PHD School Not Listed 1985
UNKNOWN Rhodes College 1982
BS Rhodes College 1982

Marin H Kollef, MD
Professor of Medicine (primary appointment)
BS US Military Academy 1979
MD University of Rochester 1983

Hermann M Koller, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 1978
BS Stanford University 1974

Sri Devi Kolli, MBBS
Instructor in Clinical Medicine (primary appointment)
MBBS Guntur Medical College 1989

Mary E. Koly, MD
Instructor in Clinical Medicine (primary appointment)
BA University of MO Kansas City 1995
MD University of MO Kansas City 1995

Ajitha Kommalapati, MD
Instructor in Medicine (primary appointment)
BS University of Texas Austin 2012
MD Baylor College of Medicine 2016

Kevin L Konzen, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA University of Notre Dame 1980
MD University of Illinois 1984

Robert G Kopitsky, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS Emory University 1978
MD Duke University 1982

Kevin Marc Korenblat, MD
Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1996

Phillip E Korenblat, MD
Professor of Clinical Medicine (primary appointment)
MD University of Arkansas 1960
BA University of Arkansas 1957

Stuart A Kornfeld, MD
David C and Betty Farrell Professor of Medicine (primary appointment)

Professor of Biochemistry and Molecular Biophysics
BA Dartmouth College 1958
MD Washington Univ in St. Louis 1962

Alex H Kosloff, MD
Instructor in Clinical Medicine (primary appointment)
BS Washington Univ in St. Louis 1975
MD Saint Louis University 1980

Attila Kovacs, MD
Professor of Medicine (primary appointment)
BS School Not Listed 1981
MD Semmelweis University of Med 1985

Sandor J Kovacs, MS, MD, PHD
Professor of Medicine (primary appointment)
Adjunct Professor of Physics
Professor of Biomedical Engineering
Professor of Cell Biology and Physiology
MS California Institute Technolo 1972
BS Cornell University 1969
MD University of Miami 1979
PHD California Institute Technolo 1977

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

James Gerard Krings, MD
Assistant Professor of Medicine (primary appointment)
BA University of Notre Dame 2009
MD Stanford University 2014
BS University of Notre Dame 2011

Melissa Renae Kroll, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of Iowa 2013
BA Dordt College 2009

Ronald J Krone, MD
Professor of Medicine (primary appointment)
John E Simon Scholar in Medicine
BS University of Michigan 1962
MD University of Chicago 1966

Elaine Susan Krul, PHD
Adjunct Associate Professor of Medicine (primary appointment)
PHD McGill University 1982
BS McGill University 1977

Thomas Kuciejczyk-Kernan, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Illinois 1982
MD Saint Louis University 1986

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

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

Anthony Kulczycki Jr, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Molecular Microbiology
BA Princeton University 1966
MD Harvard University 1970

Devesha Hrishikesh Kulkarni, PHD
Instructor in Medicine (primary appointment)
PHD Technische U Braunschweig 2013
BS University of Pune 2006

Hrishikesh Satish Kulkarni, MBBS
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Molecular Microbiology
MBBS Seth G.S. Medical College 2009

Robin A. Kundra, MD, PHD, BS1
Instructor in Clinical Medicine (primary appointment)
BS University of Georgia 1992
MD Washington Univ in St. Louis 2000
PHD Washington Univ in St. Louis 2000
BS1 University of Georgia 1992

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

Vasanthan Kuppuswamy, MD
Instructor in Medicine (primary appointment)
BA Vanderbilt University 2012
MD Medical University of Sth Car 2017

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

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Associate Professor of Medicine (primary appointment)
MD Ohio State University 2006
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BA Univ of IL-Urbana-Champaign 2005
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BS Univ of IL-Urbana-Champaign 2005

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Assistant Professor of Molecular Microbiology
MS University of Ghana Medical Sc 2003
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PHD University of New Mexico 2007

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MD University of MO Columbia 1989

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Associate Professor Of Pathology and Immunology
M PHIL Columbia University 2005
MS Columbia University 2001
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MA Columbia University 2004
PHD Columbia University 2007

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Assistant Professor Of Pathology and Immunology
MS University of Pennsylvania 2020
PHD Yale University 2020
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MD Washington Univ in St. Louis 2017
MA University of Paris 2008
MDI Aquinas Institute of Theology 2006
PHD University of Orléans 2013
BA University of Paris 2004

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MD Drexel University 2004
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MS John Hopkins University 2000

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MD University of Illinois Chicago 2009
BA Northwestern University 2004

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PHD University of Georgia 1981
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BS Yale University 2001
MD Yale University 2007

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PHD Saint Louis University 1979
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MD Washington Univ in St. Louis 2008
PHD Washington Univ in St. Louis 2008

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MD Washington Univ in St. Louis 1997
MS University of London 2004

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MD University of Iowa 2006

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MD Saint Louis University 1983

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BA University of Tennessee 1984
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BA Wittenberg University 1990
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Associate Professor of Biochemistry and Molecular Biophysics
Associate Professor of Pathology and Immunology
PHD University of Texas Southwest 2005
BS Amherst College 1997

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PHD Washington Univ in St. Louis 1980
BS Stanford University 1974

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BS University of Michigan 2011
MD Washington Univ in St. Louis 2016

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BS Mass Inst of Technology (MIT) 2013
MD Washington Univ in St. Louis 2017

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MD State Univ of NY Buffalo 1993

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PHD Duke University 2006
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PhD Ocean University of China, Qin 2004
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PHD Saint Louis University 2001

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PHD Stony Brook School of Medicine 2006

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PHD Case Western Reserve Univ 2007
BA Ithaca College 1998

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Associate Professor of Cell Biology and Physiology
PHD Simon Fraser University 2007
BS Simon Fraser University 2002

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MD Washington Univ in St. Louis 1997
BA Princeton University 1993

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

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Professor of Medicine (primary appointment)
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MBBS Army Medical College 1999

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MBBS Delhi University 1998

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MD University of Illinois 2011
MBBS Medical College of India 2004

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

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

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BA Barnard College 1984
MD State University of New York 1989

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MD University of Basel 1996

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Assistant Professor of Clinical Medicine (primary appointment)
MD University of Missouri 1972
BA De Paul University 1968

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Associate Professor of Medicine (Dermatology) (primary appointment)
BS University of Notre Dame 1977
MD Case Western Reserve Univ 1981

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

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

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

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

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

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

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

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

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

Adam M May, MD
Assistant Professor of Medicine (primary appointment)
MD Loyola University Chicago 2012

Kara H Mayes
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD University of Arkansas 2012
BS University of Arkansas 2008

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

Peter Joseph McDonnell, MD
Instructor in Medicine (primary appointment)
BS Seattle University 2012
MD University of Michigan 2016

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

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

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

Mary Clare McGregor, MD
Assistant Professor of Medicine (primary appointment)
BS University of Notre Dame 2009
MD Indiana State University 2013

Scott Andrew McHenry, MD
Assistant Professor of Medicine (primary appointment)
MD University of Toledo 2013

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

Alexis Markey McKee, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Trinity College Dublin 2011

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Instructor in Clinical Medicine (Dermatology) (primary appointment)
Clark R McKenzie, MD
Instructor in Clinical Medicine (primary appointment)
BA University of Missouri 1989
MD University of Missouri 1989

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Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1989
BA University of California 1971
JD University of California 1974

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

Shail B Mehta, MD
Assistant Professor of Medicine (primary appointment)
BS Carnegie Mellon University 2003
MD University of Pittsburgh 2008

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

Carlos R Mejia Chew, MD
Instructor in Medicine (primary appointment)
MD Universidad de San Carlos 2008

Anibal G Melo, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1991

Gary Jay Meltz, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Miami 1977
BA University of Missouri 1972

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Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BS Brandeis University 2006
MD Stony Brook School of Medicine 2013

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Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1954
BA Washington & Lee 1950

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Instructor in Medicine (primary appointment)
MS Boston University 2012
MD Commonwealth College 2016
BS University of Virginia 2009

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Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1976
BS School Not Listed 1970

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Assistant Professor of Medicine (primary appointment)

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BS Michigan State University 2011
MD Wayne State University 2015

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MD Sri Venkateswara University 2006

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MBBS King Edward Medical College 1999

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BS Case Western Reserve Univ 1987
MD Duke University 1992

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Assistant Professor of Medicine (primary appointment)
MD Case Western Reserve Univ 2013
BS Case Western Reserve Univ 2007

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

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BS School Not Listed 1968
MD Washington Univ in St. Louis 1972

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Assistant Professor of Medicine (primary appointment)
PHD Baylor University 2011
BS1 Truman State University 2005
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MD Harvard University 2000
BS Yale University 1994

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BS Carleton College 1996
DOST Midwestern University 2000
Mark James Miller, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
PHD University of California 1996
BS University of California 1991

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Assistant Professor of Medicine (primary appointment)
Assistant Professor of Biomedical Engineering
PHD Mass Inst of Technology (MIT) 2011
BS North Carolina State Universt 2005

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

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Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2016
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BA Northwestern University 1985
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Assistant Professor of Pathology and Immunology
BS Brigham Young University 2002
MD University of Oklahoma 2010
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BE John Hopkins University 2000
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MS University of Skopje - Macedon 1994
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MS University of Vienna 1999
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MD Duke University 2012
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MPE Saint Louis University 2015
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BA Grinnell College 1981
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MD Univ Texas Health Science Ctr 2008
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MBBS Kasturba Medical College 2015
MBBS Kasturba Medical College 2015
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PHD Stanford University 1989
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Instructor in Clinical Medicine (primary appointment)
BS City College 1970
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PHD Georgetown University 1978
BS Framingham State College 1974

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Assistant Professor of Medicine (primary appointment)
PHD Washington Univ in St. Louis 1995
BA Knox College 1988

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Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1991
BA Washington Univ in St. Louis 1987

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

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

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Assistant Professor of Emergency Medicine in Medicine (primary appointment)
BA University of Virginia 2004
MD Royal College of Surgeons 2010

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

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

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

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UNKNOWN Govt College Sarhodha 1968
UNKNOWN1 Nishtar Medical College Multa 1974

O

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MBBCH University College Cork 2006
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Instructor in Clinical Medicine (primary appointment)  
BA University of Kansas 1972  
MD School Not Listed 1977  

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MBBCH National University of Ireland 2006  

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

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

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

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

Elizabeth Burkhardt Odom  
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)  

Karolyn Ann Oetjen, MD, PHD  
Instructor in Medicine (primary appointment)  
MD University of Michigan 2011  
PHD University of Michigan 2011  
BS Univ of Wisconsin Madison 2003  

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

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

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Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
PHD University of Missouri 2020  

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MD Harvard University 1957  
BA Harvard University 1953  

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

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Assistant Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1987  
BA Washington Univ in St. Louis 1983  

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

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Associate Professor of Medicine (primary appointment)  
MD Rutgers University 2007  
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Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1965  
BA Washington Univ in St. Louis 1960  

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

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

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Professor of Medicine (primary appointment)  
MD University of Utah 1970  
BS University of Utah 1966  

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

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

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MD University of Tennessee 1999  
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Instructor in Medicine (primary appointment)  
PHD Chiba University 2017  
MS Chiba University 2002  
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Vani Pachalla, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1990

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

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

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MD University of CA San Francisco 2013

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Instructor in Medicine (primary appointment)
MD University of Pennsylvania 2014

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MD Vanderbilt University 2002
BS Duke University 1998

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BS Duke University 1995
MD University of Texas Southwest 2001

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Professor of Neurology
MD Emory University 1994
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MA Boston University 1994

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MS University of Texas Houston 2011
MBBS Byramjee Jeejeebhoy Medical Co 2009

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

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MD University of MO Kansas City 2004

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MD St. George’s University 2006

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BS Seoul National University 2001
MD Seoul National University 2006
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Instructor in Pediatrics
MD University of Tennessee 2013

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MD BJ Medical College 1980

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MD Saba University School of Med 2001

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MD Wayne State University 2004
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BA Kent St University 2007
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PHD Georgia Tech 1993
BS Union University 1988

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BA Texas Christian University 1984

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MD University of Texas Southwest 1988
BA Southern Methodist University 1984

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BA Yale University 1981

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Assistant Professor of Pediatrics
MD Michigan State University 2017

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MD Saint Louis University 1979
BA Northwestern University 1975

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Associate Professor of Medicine (primary appointment)
BA Scripps College 1990
MD Washington Univ in St. Louis 2001
PHD Washington Univ in St. Louis 2001

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Instructor in Medicine (primary appointment)
BA Webster University 2007
MSSW Washington Univ in St. Louis 2011
PHD Washington Univ in St. Louis 2017

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Adjunct Instructor in Medicine (primary appointment)

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

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Associate Professor of Medicine (primary appointment)
MD University of Zagreb 1997
Usman Qayyum
Instructor in Clinical Medicine (primary appointment)

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

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Instructor in Medicine (primary appointment)
BS University of Paris 2007
PhD1 University of Paris 2012
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Instructor in Clinical Medicine (primary appointment)
MD University of Illinois 1989
BS University of Illinois 1985

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MS School Not Listed 1992

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MBBS Jawaharial Inst of Med Educ 2006

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Instructor in Clinical Medicine (primary appointment)

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Instructor in Medicine (primary appointment)
BS Emory University 2013
MD University of Alabama 2017

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

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

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Instructor in Clinical Radiation Oncology
BA Rice University 1963

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Professor of Medicine (primary appointment)
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Professor of Molecular Microbiology
MD Yale University 1979
PHD Yale University 1979
BA Harvard University 1973
MA Harvard University 1973

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BS1 Augustana College 1996
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Chromalloy Endowed Professor
Professor of Developmental Biology
BA Tufts University 1980
MD McGill University 1984

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

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

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Associate Professor of Medicine (primary appointment)
BS Southeast Missouri St Univers 1979
MS University of MO Columbia 1981
MD University of MO Columbia 1985

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Instructor in Clinical Medicine (primary appointment)

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Assistant Professor of Emergency Medicine in Medicine (primary appointment)
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PHD University of Iowa 2007

Dominic N Reeds, MD
Associate Professor of Medicine (primary appointment)
MD Texas Tech University 1996
BA University of Texas Austin 1992
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Assistant Professor of Medicine (primary appointment)
MD University of Rochester 1996
BS Haverford College 1990

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BS Tulane University 1962
MD Tulane University 1966

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

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BS Tulane University 1962
MD Tulane University 1966

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

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Assistant Professor of Medicine (primary appointment)
MD Saint Louis University 2013
BA Washington Univ in St. Louis 2008
BA Washington Univ in St. Louis 2008

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

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

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Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
BS University of Cordoba 1987
PHARMD University of Cordoba 1989
PHD University of Cordoba 1999

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Instructor in Medicine (primary appointment)
PHD City University of NY 2019
MS Shanghai Jiao Tong University 2019
MD Tongji University 2019

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Associate Professor of Medicine (primary appointment)
MS University of Illinois 1997
MD University of Illinois 2002
PHD University of Illinois 2000

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Associate Professor of Biomedical Engineering
Associate Professor of Developmental Biology
MD Mount Sinai School of Medicine 2004
BS Lehigh University 1995
MS Mount Sinai School of Medicine 2000

PHD Mount Sinai School of Medicine 2002

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

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

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

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

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Adjunct Professor of Medicine (primary appointment)

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

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Assistant Professor of Medicine (primary appointment)
BFA Tulane University 1996
MD Tulane University 2000

Christopher Rigell, MD
Assistant Professor of Medicine (primary appointment)
BA Vanderbilt University 2009
MD University of Alabama 2013

Tracy Marie Riordan, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2000
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Assistant Professor of Medicine (primary appointment)
Assistant Professor of Genetics
PHD Johns Hopkins University 2009
BS Western Kentucky University 2004

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

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Assistant Professor of Medicine (primary appointment)
MD National Autonomous U of Mex 1980

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

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MD Washington Univ in St. Louis 1965

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BD School Not Listed 1987

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Professor of Medicine (primary appointment)
PHD Univ of Wisconsin Madison 1985
BS Johns Hopkins University 1979

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BS University of Dayton 2007
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MD Wright State University 1982

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BS Lakehead University 2005
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Professor of Pediatrics
Tracey C and William J Marshall Professor of Medicine
BS Columbia University 1985
MD Mount Sinai School of Medicine 1989

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Associate Professor of Pathology and Immunology
MD Washington Univ in St. Louis 2008
BA Brown University 2000

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Professor of Medicine (primary appointment)
MD Saint Louis University 1980

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MD University of Zulia 1974

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BA Princeton University 1967
MD Washington Univ in St. Louis 1971

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MD University of Cincinnati 1997
BS University of Cincinnati 1993

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

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

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

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BS Saint Louis University 1977
BS Saint Louis University 1975
MS Washington Univ in St. Louis 1992

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MD Saint Louis University 1981
BS Graceland College 1977

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

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

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

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

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Instructor in Clinical Medicine (primary appointment)  
MD School Not Listed 2000

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Assistant Professor of Medicine (primary appointment)  
PHD Washington Univ in St. Louis 2009  
BA Cornell University 2003  
BA Cornell University 2003  
MD Washington Univ in St. Louis 2011

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

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Assistant Professor of Medicine (primary appointment)  
MD King Edward Medical College 2007

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

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

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Instructor in Clinical Medicine (primary appointment)  
BS Reading University 1982  
DC Logan College of Chiropractic 1991  
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 (primary appointment)  
MD University of Tennessee 2014

Robert Van Ness Same, MD  
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MD Johns Hopkins University Medic 2014

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BA University of Texas Austin 1972

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BA Berry College 1974  
MD Harvard University 1978

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BS Washington Univ in St. Louis 2003  
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BA Rutgers University 1985

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MD University of Texas Austin 2000
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MD Oregon Health Science Univers 1975  
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BA Emporia State University 1974  

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BA Washington Univ in St. Louis 1976  
MD Saint Louis University 1980  

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

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

Jennifer Merlo Schmidt, MD  
Assistant Professor of Medicine (primary appointment)  
MD Saint Louis University 2012  

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

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

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

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

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

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

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

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

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

Kristen Ann Scullin-Hartman, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD University of MO Kansas City 1988  

Alyssa Aya Self, MD  
Instructor in Medicine (primary appointment)  
Instructor in Medicine  
BA Brown University 2013  
MD University of Colorado Denver 2017  

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

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

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

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

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

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

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

Aisha Shaikh, MD
Associate Professor of Medicine (primary appointment)
MD Dow Medical College Karachi 2001

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

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

Rajiv Kumar Sharma
Adjunct Instructor in Medicine (primary appointment)

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

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

Jonathan Holden Sheehan, PHD
Associate Professor of Medicine (primary appointment)
PHD Vanderbilt University 2006
BA Harvard University 1988

Edward Sheen, MD
Assistant Professor of Medicine (primary appointment)
MD University of CA San Francisco 2008

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

Karen Ching-Chieh Shen, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2017

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

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

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

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

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

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

Corey Lamar Shy, MD
Instructor in Medicine (primary appointment)
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
MD Drexel University 2007

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

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

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

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

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

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

**Nathan Singh, MD, MS**
Assistant Professor of Medicine (primary appointment)
BA Haverford College 2006
MD University of Pennsylvania 2013
BA Haverford College 2006
MS 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)
MD Rush University 1978
BA Washington Univ in St. Louis 1973

**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)

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

**Allen D Soffier, 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)
BA Ohio Wesleyan University 2004
PHD Baylor University 2010

**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)
Assistant Professor of Pathology and Immunology
BS University of Washington 2001
PHD University of Washington 2008
MD University of Washington 2010

John Spertus
Adjunct Professor of Medicine (primary appointment)

Michael Spezia
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

Nathan O. Stitziel, MD, PHD, BA1
Associate Professor of Medicine (primary appointment)

Associate Professor of Genetics
BA Washington Univ in St. Louis 1998
MD University of Illinois Chicago 2006
PHD University of Illinois Chicago 2006
BA1 Washington Univ in St. Louis 1998

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

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

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

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

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

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

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

Hani Suleiman, MD
Assistant Professor of Medicine (primary appointment)
MD Regentsburg University 2007

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

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

Luis David Sumoza, MD
Instructor in Medicine (primary appointment)
MD University de Carabobo 1990
Rama Suresh, MBBS  
Associate Professor of Medicine (primary appointment)  
MBBS University of Madras 1993

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

Bridgette B Svancarek, MD  
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

Laneshia K Tague, MD  
Instructor in Medicine (primary appointment)  
BS Northwestern University 2007  
MD Northwestern University Med 2011

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

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

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

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

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

Heidi H Tastet, MD  
Instructor in Medicine (primary appointment)  
MD Loma Linda University 2005

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

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

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

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

Shaukat Thanawalla  
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

Garry S Tobin, MD
Professor of Medicine (primary appointment)
BS MO S&T (formerly UofMO Rolla) 1981
MD Washington Univ in St. Louis 1985

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

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

Valeria Tosti, MD
Instructor in Medicine (primary appointment)
MD University of Verona 2009

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

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

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

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

Shivani Tripathi, MD
Assistant Professor of Medicine (primary appointment)
MD Medical College of Wisconsin 2011

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

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

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

BS University of Nebraska 1972

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

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

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

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

U

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

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

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

Geoffrey L Uy, MD, 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)  
BA Washington Univ in St. Louis 1968  
MD Washington Univ in St. Louis 1972

Brian Andrew Van Tine, PHD, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Pediatrics  
PHD University of AL Birmingham 2005  
BS University of Arizona 1995  
MD 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 Villereal, 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, MD, BA1  
Assistant Professor of Clinical Medicine (primary appointment)  
BA Saint Louis University 2003  
MD Creighton University 2007  
BA1 Saint Louis University 2003

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

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

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

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

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)  
BA Southern Illinois University 1979  
MD Southern Illinois University 1982

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
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)
BS University of Virginia 2006
MD Virginia Comm University 2016

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

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

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

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

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)
MD University of Rochester 1981
BA University of Vermont 1977

Steven Jay Weintraub, MS, MD
Associate Professor of Medicine (primary appointment)
MS University of Virginia 1981
BA State Univ of NY Binghampton 1978
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)
BA Harvard University 1975
MD Case Western Reserve Univ 1980

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

Lynn Ellis Welling, MD
Adjunct Associate Professor of Medicine (primary appointment)
MD UniformedServUofHealthSciences 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
BS North Park College 1991
DPT Washington Univ in St. Louis 2007
MS Washington Univ in St. Louis 1993

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

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

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

PhD Washington Univ in St. Louis 1992

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

Michael Peter Whyte, MD
Professor of Medicine (primary appointment)
Professor of Genetics
Professor of Pediatrics
MD State University of New York 1972
BA New York University 1968

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

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

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

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

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)
MD Baylor College of Medicine 2012
BS University of Houston 2008

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 (primary appointment)
MD University of Illinois 2018
BS Saint Louis University 2011

Nancy J Williams, MD
Instructor in Clinical Medicine (primary appointment)
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)  
MD University of Cincinnati 2012  
BA McKendree College 2008  

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  
BS Illinois State University 1975  
MD Southern Illinois University 1983  

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  
MD Texas Southern University 1991  
BS University of Dallas 1984  

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)  
MD Washington Univ in St. Louis 1985  
BA Washington Univ in St. Louis 1981  

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)  

BA Dartmouth College 1982  

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  

Jun Xia, PHD  
Instructor in Medicine (primary appointment)  
PHD University of Illinois 2006  

Zhifu Xiang, MD, PHD  
Associate Professor of Medicine (primary appointment)  
MD Tongji University 1990  
PHD Tongji University 1998  

Yan Xie, MD, MS  
Instructor in Medicine (primary appointment)  
MD Tongji University 1986  
MS HuBei Medical University 1991  

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)  
MD Washington Univ in St. Louis 2017  
BS Washington Univ in St. Louis 2013  

Po-Yin Yen, PHD, MS  
Associate Professor of Medicine (primary appointment)  
PHD Columbia University 2010  
MS Oregon Health Science Univers 2005  
BS National Cheng Kung University 2001  

Wayne M Yokoyama, MD  
Sam and Audrey Loew Levin Professor of Medicine (Rheumatology) (primary appointment)  

BS National Cheng Kung University 2001
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.

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**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 transcripational 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 steatohepatits. 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.
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.

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.

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.

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.

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.

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.
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.

**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.

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

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

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 accomplish these goals? 1. Learning skills and techniques requires a cycle of steps: preparation, background reading, attempts at skill performance, analysis and reflection on performance, discussion of potential improvements and successive performance of the skill with advancement to a new level of expertise. 2. The focus is on learning skills. You practice each skill, such as interviewing, in a variety of venues and situations of varying complexity. This course is for learning about how to do things that you will use for taking care of patients and families. 3. You work in multiple learning environments. a. Academic environments: Small group sessions for discussion, small group practice sessions, peer learning, small group presentations, individual and group writing assignments, and reflections on experiences are the preferred learning locations. b. Clinical environments: Inpatient units with faculty and WUSM IV mentors, standardized patient experiences with videotape review, physicians' offices, patients' homes with and without home care professionals, and a city clinic.

Credit 198.5 units.

M25 Medicine 605A Infectious Diseases
The Infectious Diseases course teaches both organism-specific and organ-specific approaches to disease caused by microbes. The course expands upon the material presented in the first year concerning bacteria, viruses, fungi and parasites and their involvement in causation of human disease. It explores the complex interaction between microbes and host in the individual patient, and at the broader public health level. 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 solideroderma), 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 patients, physicians and society and will also introduce the advanced physical exam and approaches to clinical thinking and decision-making. The sections of POM II include Clinical Skills, Case Development, Communication Skills, Ophthalmology, Radiology, Community and Public Health, Ethics and Health Policy Humanities, and Scientific Methods. The learning objectives for each section of POM II emphasize topics and skills used in all fields of medicine, and the majority of the course work will be taught in small groups or through clinical experiences. Credit 89 units.

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

M25 Medicine 612B Pulmonary Diseases
The pulmonary pathophysiology course is designed to familiarize medical students with the pathophysiological mechanisms underlying diseases of the pulmonary system. The course begins with a brief review of pertinent pulmonary physiology and pulmonary function, and then explores how pathologic disorders alter normal lung physiology resulting in the clinical presentation of disease. Major categories of clinical pulmonary diseases discussed include obstructive lung diseases, restrictive lung diseases, pulmonary vascular diseases and pleural disease. Educational methods include lectures, team based learning and review sessions. Credit 22.5 units.

M25 Medicine 613B Renal & Genitourinary Diseases
This course focuses upon the wide variety of renal diseases. It will begin with a brief review of pertinent renal physiology, and then will explore disorders of fluids/electrolytes (abnormalities in plasma water/solute balance), patterns of acute and chronic kidney injury (including nephritic/nephrotic syndromes and renal involvement in systemic disorders), and finally the options available when end stage kidney disease is reached (hemodialysis, peritoneal dialysis, transplantation). The course contains a mixture of lecture, small group, team based learning, case-based presentations, and patient presentation. Credit 38 units.

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

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

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

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

M25 Medicine 707 Practice of Medicine III
Objectives: 1. To review challenges and dilemmas relevant to the practice of clinical medicine. 2. To examine clinical experiences from a variety of perspectives. In this course, themes and topics relevant to students in their clinical stage of training are discussed. Session formats include lecture, panel discussion and/or small group. As students exchange problematic scenarios and questions, the group develops potential solutions and management schemes. *Topics in the past have included: 1) Diversity 3.0 training 2) Business of medicine 3) Individualized Learning Objectives in clinical scenario 4) PSQI 5) Mock Deposition, Risk Management, and Adverse Patient Outcomes 6) Compassion Fatigue, Resilience, and Burnout Part 1 7) Compassion Fatigue, Resilience, and Burnout Part 2 8) Caring for Incendiary Patients 9) Diagnostic Error and Transitions of Care 10) Strategies for Effective Teaching and Mentoring Attendance at 8 out of 10 POM III sessions is required to pass this course. Students may use 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 therapy of common dermatologic disorders and become cognizant of uncommon or complicated dermatologic problems that require specialty care. Emphasis will be placed on careful history taking and physical examination. Students will always work under the direction of the resident physician and the attending physicians in the clinic setting. Credit 154 units.

M25 Medicine 750 Geriatrics Clerkship
The primary goal of this rotation is for students to gain proficiency in the principles of geriatric evaluation and management, including the medical, psychological, social, and functional assessments of older adults. Students are expected to participate in the evaluation of three to five patients per week, in a variety of settings including the outpatient Geriatric Assessment Clinic, 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 residents 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
residents, and nurse practitioners that sees a large population of cardiac patients and follows them through all aspects of their in-patient care. The student will serve as the intern under the direct supervision of the attending 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 physical examination, 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 physical examination, daily notes, and discharge summaries on 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 structure and functioning of the Cardiology subinternship is very similar to the General Medicine Subinternship (M25 801 and M25 807). The basic purpose is to develop expertise in the care of hospitalized patients in a well-supervised teaching environment. The majority of patients admitted to the service will have a cardiology diagnosis as the main reason for admission. Some general medical problems will also be seen. All attendings on the service are cardiology subspecialists. Cardiology fellows act as the chief resident for the service on a monthly basis. 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 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 internal medicine house staff. There are also several conferences specific to the cardiology service.

M25 Medicine 823 Clinical Cardiology - VA Hospital

The major purpose of this elective in clinical cardiology at the John Cochran VA Hospital is to improve evaluation and management skills for diagnosis and treatment of important cardiovascular conditions such as coronary artery disease including acute myocardial infarction, congestive heart failure, hypertension, and valvular heart disease. The rotation is designed to be flexible enough to accommodate a wide variety of course objectives but includes the opportunity to participate in 1-3 outpatient clinics per week; 1-4 weeks of inpatient intensive care, telemetry, or cardiology consultation rounds; and ECG, stress testing, nuclear imaging, or echocardiographic reading sessions, cardiac catheterization and electrophysiologic procedures. The emphasis will be on improvement of the ability to diagnose and treat cardiovascular disease on the basis of information obtained from a thorough history and physical examination that is integrated with data from appropriate highly targeted laboratory studies in a manner that optimizes patient outcomes 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 at 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 cytophenias. 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 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 infectious disease fellows, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics, antifungal and antiviral agents in this highly immune suppressed population. A wide distribution of infectious diseases is covered including management of neutropenic fever, invasive fungal infections in the transplant population, acute and chronic infections, infection prophylaxis and monitoring and interactions between immunsuppressive agents and antibiotics.

**M25 Medicine 858 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 bedside teaching and attend tumor boards and lectures focused on the care of patients with solid tumors. At the end of the rotation, the students will appreciate the principles of our approach to cancer patients and should have gained insights into the 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 BJH Palliative Care Service. Based on the individual student’s interest, there may also be opportunities to work with the BJH Hospice Team and the St. Louis Children’s Hospital 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, with as much advance notice as possible as 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 workday. They will observe different styles that oncologists use when presenting news about prognosis, treatment options, and other information to patients while they also learn about the molecular basis for cancer, the mechanisms of action for our therapies (particularly the newer agents which target specific molecular abnormalities), and the key studies that justify the use of therapies (e.g. randomized studies showing that after surgery, chemotherapy will reduce the risk of recurrence from a particular cancer with a particular regimen). By spending time with clinicians, students will learn how to identify hereditary syndromes, use drugs for symptom relief, and also learn how radiographic and laboratory tests allow oncologists to care for patients.

M25 Medicine 877 Intensive ECG Interpretation

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

M25 Medicine 879 Pulmonary Clinic for the Underserved

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

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

Conferences: There is no conference associated with this clinic, but students may attend the usual Thursday morning Medicine Grand Rounds at 8:00 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) T cell 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 on 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 currently underway to allow students to participate in helicopter rides along 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 also exist during this rotation; students will be able to rotate in the outpatient 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.