Edward Mallinckrodt Department of Pediatrics

The primary aim of the teaching program of the Department of Pediatrics (http://pediatrics.wustl.edu) is to stimulate interest in developmental biology — in particular, human growth and development — to provide students with a foundation sufficiently comprehensive to have an appreciation of clinical pediatric problems, regardless of their future career choices in medicine.

The major clinical and research facilities are in St. Louis Children's Hospital (http://www.stlouischildrens.org), and the newborn services are at the Women and Infants Center (http://www.stlouischildrens.org/women-and-infants). St. Louis Children's Hospital is a facility with 300 beds that accepts patients through 21 years of age with all types of medical and surgical problems. Hospital admissions average 11,200 annually. Pediatric medical ambulatory activity, including subspecialty and emergency visits, averages about 152,000 visits a year. Nearly 4,000 infants are born annually at the Washington University Medical Center.

Website: http://pediatrics.wustl.edu

Degrees & Requirements

While the Department of Pediatrics does not offer its own degree, some of the department’s courses are open to students in the MD and MSTP (MD/PhD) programs. Further information about the MD and MSTP degrees can be found in the Degrees & Programs Offered (http://bulletin.wustl.edu/medicine/degrees) section of this Bulletin.

Research

Ana Maria Arbelaez, MD
Northwest Tower, 10th Floor
Phone: 314-286-1138
Clinical research in diabetes mellitus. Clinical research studies on hypoglycemia-associated autonomic failure in patients with type 1 diabetes mellitus and on cystic fibrosis related diabetes.

Charles E. Canter, MD
Northwest Tower, Division of Cardiology, 8th Floor
Phone: 314-454-6095
Single-center and multicenter clinical studies and trials in pediatric cardiomyopathy, heart failure, and heart transplantation.

F. Sessions Cole, MD and Jennifer Wambach, MD, MS
Northwest Tower, 8th Floor; and McDonnell Pediatric Research Building, 5th Floor
Phone: 314-454-6148
Using candidate gene sequencing, exome sequencing, whole genome sequencing, and computational prediction and filtering strategies for discovery of deleterious variants in population-based cohorts, case-control cohorts, and trios of affected infant and parents, our laboratory focuses on discovering novel candidate genes associated with neonatal respiratory distress syndrome and understanding the contribution of genetic variation in candidate genes of the pulmonary surfactant metabolic pathway (including surfactant protein B, surfactant protein C, NKX2-1, and ABCA3), to risk of neonatal respiratory distress syndrome.

Vikas Dharnidharka, MD, MPH
Northwest Tower, 10th Floor
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Clinical and translational research in childhood kidney disease. Our group is involved in several different types of clinical and translational research, including (a) multicenter clinical intervention trials to improve teen adherence with transplant medications and test new medications in children on dialysis; (b) translational biomarker studies in transplant acute and chronic rejection and genomic studies or post-transplant lymphoproliferative disease; (c) large transplant database epidemiological analyses for associations of immunosuppressive regimens with efficacy and morbidity balance.

Allan Doctor, MD
McDonnell Pediatric Research Building, 5th Floor
Phone: 314-454-2527
Role of erythrocytes in pathologic vascular signaling. We employ several novel experimental platforms to pursue a range of basic, translational, and clinical studies exploring: (1) the role of erythrocytes in context-responsive metabolism of vasoactive effectors in flowing blood; (2) molecular control of antioxidant defense in erythrocytes; (3) the role of acquired injury to normal erythrocytes in the pathophysiology of acute lung injury and multiple organ failure syndrome; and (4) the impact of genetic abnormalities in erythrocytes upon antioxidant defense and vascular signaling (modeled by sickle cell anemia). Query is modeled on many levels from isolated proteins – cell culture – isolated organ – whole mouse – to studies in humans.

Todd Druley, MD, PhD
4444 Forest Park Avenue, Room 6203
Phone: 314-286-2124
Translational genomic research in pediatric oncology. The Druley lab aims to develop novel genomic and computational methodologies for characterizing the functional impact of rare acquired and germline variation on the etiology and outcomes of various pediatric malignancies.

Jennifer Duncan, MD
McDonnell Pediatric Research Building, 3rd Floor
Phone: 314-747-0802
Understanding the transgenerational impact of maternal nutrition. Our lab uses Drosophila melanogaster as a model system to evaluate the impact of maternal caloric excess on metabolism.
and mitochondrial function in offspring. We are currently pursuing epigenetic mechanisms, specifically the role of histone modification, for altering gene expression. In addition, we are evaluating the molecular mechanisms underlying triglyceride excess in the offspring and are evaluating tissue-specific mitochondrial function. This elective is for students interested in research in any of these areas.

Stephanie A. Fritz, MD, MSCI
Northwest Tower, Room 10125
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Our research team studies the epidemiology, microbial virulence mechanisms, and host defenses against community-associated methicillin-resistant Staphylococcus aureus (CA-MRSA) colonization, transmission and disease. We are investigating the transmission dynamics of CA-MRSA in households and interventions to interrupt the transmission of CA-MRSA and prevent subsequent infections. Our lab also explores the microbial and host genomic determinants, as well as the host immune response to staphylococcal toxins implicated in the pathogenesis of CA-MRSA, in patients across a spectrum of disease states. Our goal is to develop novel approaches for the prevention of CA-MRSA infections.

Carmen Halabi, MD, PhD
McDonnell Pediatric Research Building, 4th Floor, Room 4107
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Extracellular matrix in vascular development and disease: The research in the laboratory focuses on vascular biology. Specifically, we study extracellular matrix proteins that make up the elastic fibers of blood vessels. Elastic fibers convey elasticity to blood vessels allowing large arteries to store energy during systole and release it during diastole. Abnormalities in elastic fiber components lead to various complications including hypertension, stiff vessels, and aneurysms. In the laboratory, we utilize mouse models to understand how abnormalities in these proteins lead to disease, which helps us not only learn about the normal function of these proteins, but also identify potential novel therapeutic targets.

Robert J. Hayashi, MD
St. Louis Children's Hospital, Suite 9S
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Clinical research interests include stem cell transplantation and its complications, including post-transplant lymphoproliferative disease and long-term side effects of therapy.

Keith A. Hruska, MD
McDonnell Pediatric Research Building, 5th Floor
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The research in the laboratory focuses on chronic kidney disease (CKD) and its complications of the chronic kidney disease mineral bone disorder syndrome that involves skeletal frailty, cardiovascular disease, and vascular calcification. The lab has discovered important new pathologic mechanisms of disease leading to vascular calcification through systemic effects of factors involved in renal repair and hyperphosphatemia.

Translational studies that continue to develop new therapeutic approaches are being aggressively pursued. New therapies for chronic kidney disease, and its complications, are being studied in clinical trials.

Paul Hruz, MD, PhD
McDonnell Pediatric Research Building, 3rd Floor
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Research interests include structure/function relationships in facilitative glucose transporters, congenital and acquired lipodystrophy syndromes, and insulin resistance associated with HIV protease inhibitor therapy.

David A. Hunstad, MD
McDonnell Pediatric Research Building, Room 6106
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Work in our lab focuses on the interactions of pathogenic bacteria with their hosts. We aim to elucidate the modulation of host immune responses by pathogens and to determine the mechanisms by which these bacteria present specific virulence factors on their surfaces. Currently, we use cultured bladder epithelial cell models and murine models of cystitis to investigate the ability of uropathogenic Escherichia coli to modulate host innate and adaptive immune responses. In addition, we are studying the molecular mechanisms by which selected outer membrane proteins contribute to the virulence of uropathogenic E. coli. Our primary goal is to discover novel targets for interventions that will prevent and better treat bacterial infections of the urinary tract. Along these lines, we are leveraging recent discoveries in UTI pathogenesis to design nanoparticle-based therapies for prevention of acute and recurrent UTI. We have also launched a new translational study of immune responses to UTI in male and female infants, paired with an innovative new mouse model of male UTI that permits first-ever studies of sex differences in these infections.

S. Celeste Morley, MD, PhD
McDonnell Pediatric Research Building, Room 6105
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Our laboratory investigates the molecular mechanisms underlying immune cell signaling and trafficking using mouse models. We hope to identify molecules critical for host defense against infectious organisms such as pneumococcus. Our focus is currently on an actin-binding protein called L-plastin, which is required for normal T and B cell motility.

Audrey R. Odom, MD, PhD
McDonnell Pediatric Research Building, Room 6108
Phone: 314-747-2370

Antimalarial therapies and diagnostics. Severe malaria due to infection with Plasmodium falciparum kills nearly a million children annually. Our laboratory uses translational approaches to develop new methods to diagnose and treat malaria. Projects are available in several research areas, ranging from clinical studies to molecular parasitology approaches in the lab. We are eager to have students join either our team on campus, where we study parasite metabolism and evaluate new potential
therapies, or our team in the field in Malawi, where we are collecting samples for new malaria biomarkers.

Jose A. Pineda, MD
Northwest Tower, 10th Floor, Patient-Oriented Research Unit
Phone: 314-286-1246
Mechanisms of brain injury in children. Our clinical research efforts focus on investigating the mechanisms and potential new treatments for brain injury, including strategies for implementation of best clinical practices. We utilize high-resolution physiological monitoring, biochemical analysis of clinical samples, and innovative implementation science methodologies.

Alan L. Schwartz, PhD, MD
St. Louis Children's Hospital, Suite 3S36
Phone: 314-454-6005
Investigative efforts are aimed at understanding: (1) the biology of cell surface receptors, including biochemical and molecular dissection of the mechanisms responsible for receptor-mediated endocytosis of blood coagulation proteins; and (2) the regulation of intracellular protein turnover.

Shalini Shenoy, MD
St. Louis Children's Hospital, Suite 9S
Phone: 314-454-6018
Investigation of novel reduced intensity transplant strategies for pediatric non-malignant disorders and the immunologic basis of graft versus host disease and graft rejection.

Gregory A. Storch, MD; Kristine Wylie, PhD; Todd Wylie, BS; Richard S. Buller, PhD
St. Louis Children's Hospital, Suite 2N52
Phone: 314-454-6079
Infectious disease genomics. Our laboratory is interested in applying genomic analysis to a variety of problems in infectious diseases, mostly related to viral infections. Recent studies include use of next generation sequencing to define the human virome in immunocompromised children, improved methods for detecting viruses using next generation sequencing, use of next generation sequencing for clinical diagnosis, analysis of the human transcriptome response to acute infections, sequencing of the genome of enterovirus D68 and development of a rapid diagnostic test for that virus. Students would have the opportunity to learn genomic techniques, including informatics analysis.

Phillip I. Tarr, MD
McDonnell Pediatric Research Building, Room 6103
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Research in pediatric gastroenterology, hepatology and nutrition. Students have opportunities in broadly encompassing research projects. Investigators in the Division have funded and vibrant projects in liver disease (fatty liver disease, acute liver failure, biliary atresia, liver transplants, cystic fibrosis liver disease), inflammatory bowel diseases (Crohn's Disease and ulcerative colitis), infections of the gastrointestinal tract (diarrhea), acute liver failure, Hirschsprung Disease, diarrhea, gut microbiome, aflatoxin injury to the liver and stunting, health services research, necrotizing enterocolitis, antibiotic-resistant pathogens in the human gut, and quality improvement, particularly related to inflammatory bowel disease management. Short- and long-term projects can be arranged around these and other related efforts. The exact nature of the project depends on the time that the student can contribute to the effort, and the availability of any of the Division faculty, who all have established track records as mentors. Interested students should contact any of our faculty, or Dr. Tarr, to discuss the possibilities.

Neil H. White, MD, CDE
St. Louis Children's Hospital, Northwest Tower, 9th Floor
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Our work involves patient-oriented research in the management of diabetes in children. Arrangements can be made for involvement in, or development of, projects aimed at improving outcome or prevention of diabetes mellitus and its complications.

David B. Wilson, MD, PhD
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Research is focused on the molecular switches that regulate control genes during early embryonic development and differentiation.

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Visit our website for more information about our faculty (http://pediatrics.wustl.edu/directory) and their appointments.

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<thead>
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<th>Title</th>
<th>Institution(s)</th>
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<tbody>
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</tr>
<tr>
<td>Tracy Lynn Ivy, MD</td>
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<td>Patricia A Jamerson</td>
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<tr>
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Jerome H O'Neil Jr, MBA, MD  
Assistant Professor of Clinical Pediatrics (primary appointment)  
MBA Univ of Massachusetts Amherst 2007  
MD Saint Louis University 1981  
BA University of Missouri 1977

Justin O Ogbeven, MBBS  
Instructor in Pediatrics (primary appointment)  
MBBS University of Lagos 1982

Andrea Cohron Orr  
Instructor in Clinical Pediatrics (primary appointment)  
BS University of Georgia 2007

Valerie Orrico  
Instructor in Clinical Pediatrics (primary appointment)

Rachel C. Orschel, MD  
Associate Professor of Pediatrics (primary appointment)  
BS University of MO Columbia 1994  
MD University of MO Columbia 1998

Cynthia M. Ortinau, MD  
Assistant Professor of Pediatrics (primary appointment)  
MD University of MO Kansas City 2005

Irma I Ortiz-Arroyo, MD  
Assistant Professor of Clinical Pediatrics (primary appointment)  
BS University of Puerto Rico 1981  
MD University of Puerto Rico 1985

Alison H Oswald, UNKNOWN  
Instructor in Clinical Pediatrics (primary appointment)  
UNKNOWN University of Cape Town 1982

Pamela B Padda, MD  
Instructor in Clinical Pediatrics (primary appointment)  
MD University of Illinois 1990  
BA University of Michigan 1986

Stephen C Pak, PHD  
Associate Professor of Pediatrics (primary appointment)  
BS University of Sydney 1990  
PHD University of New South Wales 1996  
BS University of Sydney 1990

Jennifer Ann Panasci  
Instructor in Clinical Pediatrics (primary appointment)

Purvi R Patel, MD  
Assistant Professor of Pediatrics (primary appointment)  
MD Baylor University 2000  
BA Rice University 1996

Diliane Charles Pelikan  
Instructor in Pediatrics (primary appointment)

Gillian Clare Pet
Instructor in Pediatrics (primary appointment)

Jose A Pineda Soto, MD
Associate Professor of Pediatrics (primary appointment)
Associate Professor of Neurology
MD Francisco Marroquin University 1993
BS Francisco Marroquin University 1988

Jessica E Pittman, M PH, MD
Assistant Professor of Pediatrics (primary appointment)
BS Oberlin College 1998
M PH University North Carolina 2009
MD Washington Univ in St. Louis 2004

Kathryn L. Plax, MD
Ferring Family Chair Professor of Pediatrics (primary appointment)
MD University of Rochester 1996
BA Brown University 1989

Daniel S Plax, MD
Assistant Professor of Clinical Pediatrics (primary appointment)
BA Brown University 1988
MD Washington Univ in St. Louis 1993

John Samuel Plowden, MD
Assistant Professor of Clinical Pediatrics (primary appointment)
MD Medical College Georgia 1984
BS Washington & Lee 1979

Santiago Boye Plurad Jr, MD
Assistant Professor of Clinical Pediatrics (primary appointment)
BA Washington Univ in St. Louis 1982
MD School Not Listed 1987

Juanita C Polito-Colvin, MD
Associate Professor of Clinical Pediatrics (primary appointment)
MD Southwest Texas State Univ 1979
BA University of Dallas 1975

Brooke Ivan Polk, MD
Assistant Professor of Pediatrics (primary appointment)
MD University of Colorado Boulder 2012
BS Colorado St University 2008

Claudia Preuschoff, MD
Instructor in Clinical Pediatrics (primary appointment)
MD Wake Forest University 1983

Cassandra Michelle Pruitt, MD
Associate Professor of Pediatrics (primary appointment)
BA Emory University 1994
MD Texas Tech University 1999

Peter J Putnam, MD
Assistant Professor of Clinical Pediatrics (primary appointment)
BS Williams College 1993
MD Dartmouth College 2007

Jenna M Putzel
Instructor in Clinical Pediatrics (primary appointment)

Robert Louis Quaas, MD
Instructor in Clinical Pediatrics (primary appointment)
BS University of South Dakota 1973
MD University of Chicago 1975
BA Cornell College 1970

Kimberly S Quayle, MD
Professor of Pediatrics (primary appointment)
MD Washington Univ in St. Louis 1988
BA University of MO Columbia 1984

Jennifer Quinn, MD
Instructor in Clinical Pediatrics (primary appointment)
BA University of Kentucky 1982
MD University of Kentucky 1986

Mohammad H Rahman, UNKNOWN
Instructor in Clinical Pediatrics (primary appointment)
UNKNOWN School Not Listed 1960

Vidya Raman
Instructor in Clinical Pediatrics (primary appointment)

Pathmawathy T Ramesvara, MS
Instructor in Clinical Pediatrics (primary appointment)
MS School Not Listed 1972

Rakesh Rao, MD, MBBS
Associate Professor of Pediatrics (primary appointment)
MD Maulana Azad Medical College 1996
MBBS University College of Med Sci 1992

Emanuel Rashet, MD
Instructor in Clinical Pediatrics (primary appointment)
MD Saint Louis University 1962
BS University of Illinois 1958

Sheryl S Ream, MD
Instructor in Clinical Pediatrics (primary appointment)
MD Saint Louis University 1986
BA Saint Louis University 1982

Shawn Robert Reathaford, MD
Instructor in Pediatrics (primary appointment)
MD University of Illinois 1999
BS University of Evansville 1993

Neil F. Rebbe, PHS, MD
Instructor in Clinical Pediatrics (primary appointment)
PHS Washington Univ in St. Louis 1983
BA University of MO St Louis 1978
MD Saint Louis University 1996

Timothy Reed
Instructor in Clinical Pediatrics (primary appointment)

Patrick Joseph Reich, MD
Instructor in Pediatrics (Pending Dean's Approval) (primary appointment)
BS Saint Louis University 2007
MD Saint Louis University 2011

Phillip D Reichert, MD
Instructor in Clinical Pediatrics (primary appointment)
BA Saint Louis University 1992
MD Saint Louis University 1996

Catherine R Remus, MD, MSN
Assistant Professor of Clinical Pediatrics (primary appointment)
MD School Not Listed 1983
MSN Rush University 1978
BA Luther College 1975

Kenneth Eugene Remy, MD
Assistant Professor of Pediatrics (primary appointment)
MD Jefferson Medical College 2004

George H Rezabek, DOST
Instructor in Clinical Pediatrics (primary appointment)
DOST School Not Listed 1988
BS St Louis College of Pharmacy 1982

Edward K Rhee, MD
Adjunct Assistant Professor of Pediatrics (primary appointment)
MD University of Pittsburgh 1993
BA University of Pennsylvania 1986

Noor Riaz, MD
Assistant Professor of Pediatrics (primary appointment)
MD Washington Univ in St. Louis 2008

Katherine Rivera-Spoljaric, MS, MD
Associate Professor of Pediatrics (primary appointment)
MS Washington Univ in St. Louis 2008
BS University of Puerto Rico 1997
MD University of Puerto Rico 2001

William L. Rives, MS, MD
Associate Professor of Pediatrics (primary appointment)
MS University of Missouri 1992
MD University of Missouri 1996

Kris Ann Roberts, MD
Assistant Professor of Clinical Pediatrics (primary appointment)
BA Midland Lutheran College 1991
MD Kirksville College of Osteopathic Medicine 1995

Janis B Robinson, MD, MA
Associate Professor of Clinical Pediatrics (primary appointment)
MD University of Pennsylvania 1977
MA Yale University 1972
BA St Joseph College 1969

Toby Andrew Rockefeller, MD
Assistant Professor of Pediatrics (primary appointment)
BS Oklahoma St University 2005
MD University of Oklahoma 2009

Lauren Michelle Rogowski, MD
Instructor in Pediatrics (primary appointment)
MD University of Illinois Chicago 2014
BS Univ of IL - Urbana-Champaign 2010

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Instructor in Clinical Pediatrics (primary appointment)
MD U Medical-Dental Of New Jersey 1993
BA Saint Louis University 1989

David A. Rosen, MD, PHD
Assistant Professor of Pediatrics (primary appointment)
BS Davenport University 2002
MD Washington Univ in St. Louis 2010
PHD Washington Univ in St. Louis 2010

Joan Lee Rosenbaum, MS, MD
Professor of Pediatrics (primary appointment)
MS University of California 1980
BA Rice University 1978
MD University of Texas Austin 1983

Isabel L Rosenbloom, MD
Associate Professor of Clinical Pediatrics (primary appointment)
BA Goucher College 1979
MD University of Maryland 1984

Kelly Ross, MD
Associate Professor of Pediatrics (primary appointment)
MD University of MO Columbia 1996
BS University of MO Kansas City 1991

William J Ross, MD
Associate Professor of Clinical Pediatrics (primary appointment)
BA Miami University 1968
MD Washington Univ in St. Louis 1972

Ella Rozin
Instructor in Clinical Pediatrics (primary appointment)

Joshua Bennett Rubin, PHD, MD, MS
Professor of Pediatrics (primary appointment)
Professor of Neurology
Professor of Neuroscience
PHD Albert Einstein College of Med 1994
MD Albert Einstein College of Med 1994
BS Yale University 1982
MS Albert Einstein College of Med 1992

Christina M Ruby-Ziegler, MD
Assistant Professor of Clinical Pediatrics (primary appointment)
MD Northwestern University Med 1994
BS Loyola University 1990

Martin D Rudloff, MD
Assistant Professor of Clinical Pediatrics (primary appointment)
MD Washington Univ in St. Louis 1981
BA Central Methodist College 1977

David Rudnick, MD, PHD
Associate Professor of Pediatrics (primary appointment)
Associate Professor of Developmental Biology
MD Washington Univ in St. Louis 1994
PHD Washington Univ in St. Louis 1994
BS University of Illinois 1987

Daniel G. Rudolph, MD
Instructor in Clinical Pediatrics (primary appointment)
MD Saint Louis University 1992
BS Saint Louis University 1988

Karen Elizabeth Ruecker, MD
Instructor in Clinical Pediatrics (primary appointment)
BA Rice University 1992
MD Washington Univ in St. Louis 1996

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Instructor in Clinical Pediatrics (primary appointment)
MD Case Western Reserve Univ 1986
BA State University of New York 1976
MA State University of New York 1979

Lisa A Ryan
Instructor in Clinical Pediatrics (primary appointment)

S

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Instructor in Pediatrics (primary appointment)
MD Ain Shams University 2000
PHD Ain Shams University 2009

Charles Michael Samson, MD
Associate Professor of Pediatrics (primary appointment)
BS University of North Carolina 1998
MD University of Washington 2003

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Instructor in Clinical Pediatrics (primary appointment)
MD Loyola University Chicago 2004
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Instructor in Pediatrics (primary appointment)
BA Northwestern University 1991
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MA Yale University 1993
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Associate Professor of Developmental Biology
MD Stanford University 1990
BS University of Minnesota 1983
PHD Stanford University 1990

Brian J. Saville, MD
Instructor in Pediatrics (primary appointment)

MD Washington Univ in St. Louis 2001
BS Washington Univ in St. Louis 1997

Blaine M Sayre, M PH, MD
Professor of Clinical Pediatrics (primary appointment)
M PH University of CA Berkeley 1972
MD Washington Univ in St. Louis 1968

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BA Indiana University Bloomington 1974
MD Indiana University Bloomington 1979

Janet Nagel Scheel, MD
Professor of Pediatrics (primary appointment)
BS Georgetown University 1980
MD Georgetown University 1985

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Instructor in Clinical Pediatrics (primary appointment)
MD University of MO Kansas City 1978
BA University of MO Kansas City 1976

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Associate Professor of Clinical Pediatrics (primary appointment)
BA University of Iowa 1982
MD Saint Louis University 1987

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Instructor in Clinical Pediatrics (primary appointment)
BA University of Missouri 1975
MD Saint Louis University 1979

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Assistant Professor of Pediatrics (primary appointment)
Assistant Professor of Developmental Biology
MD Northwestern University Med 2005
PHD Northwestern University 2000

Alan L Schwartz, MD, PHD
Alumni Endowed Professor of Pediatrics (primary appointment)
Professor of Developmental Biology
MD Case Western Reserve Univ 1976
PHD Case Western Reserve Univ 1974
BA Case Western Reserve Univ 1970

Colleen Erika Seematter, MD
Instructor in Clinical Pediatrics (primary appointment)
MD Saint Louis University 1998

Martha Papay Sewall, MD
Instructor in Clinical Pediatrics (primary appointment)
BA University of Missouri 1983
MD University of Missouri 1985

Snehal Paresh Shah, MD
Assistant Professor of Pediatrics (primary appointment)
MD Ross Univ School of Medicine 2010
BA Boston College 2003

Shabana Shahanavaz, MD

Associate Professor of Pediatrics (primary appointment)  
MD Kasturba Medical College 2002

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Assistant Professor of Clinical Pediatrics (primary appointment)  
BA University of Missouri 1978  
MD University of Missouri 1983

Megan Elizabeth Shelton  
Instructor in Clinical Pediatrics (primary appointment)

Shalini Shenoy, MD, MBBS  
Professor of Pediatrics (primary appointment)  
MD Kasturba Medical College 1985  
MBBS Kasturba Medical College 1981  
BS M.G.R. Medical University 1981

Ross William Shepherd, MBBS, MD  
Adjunct Professor of Pediatrics (primary appointment)  
MBBS University of Queensland 1970  
MD University of Queensland 1979

Marwan Shinawi, MD  
Professor of Pediatrics (primary appointment)  
MD Technion - Israel Inst. of Tec 1996  
BS Hebrew University 1989

Min-Yi Katherin Shiue, MD  
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BS Washington Univ in St. Louis 1992  
MD Washington Univ in St. Louis 1996

Jennifer N Silva, MD  
Associate Professor of Pediatrics (primary appointment)  
BA Union College New York 1997  
MD St. George's University 2002

Gary Arthur Silverman, PHD, MD  
Harriet B Speehner Professor of Pediatrics (primary appointment)  
Head of the Department of Pediatrics  
Professor of Cell Biology and Physiology  
Professor of Genetics  
PHD University of Chicago 1982  
MD University of Chicago 1984  
BS Washington Jefferson College 1978

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Instructor in Clinical Pediatrics (primary appointment)

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Associate Professor of Pediatrics (primary appointment)  
BA University of Texas Austin 1963  
MD Washington Univ in St. Louis 1967

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MD University of MO Kansas City 2006

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Professor of Pediatrics (primary appointment)  
MD Patna Medical College 1982  
MBBS Ranchi University 1977

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Instructor in Pediatrics (primary appointment)  
MD Indiana University Bloomington 2014  
BS Indiana University Bloomington 2010

Carl Jeffrey Sippel, PHD, MD  
Assistant Professor of Clinical Pediatrics (primary appointment)  
PHD Saint Louis University 1980  
BA University of Missouri 1975  
MD Saint Louis University 1983

Kelsey Alayne Sisti, MD  
Assistant Professor of Pediatrics (primary appointment)  
BS University of Alaska 2005  
MD University of Arkansas 2009

Harold B Sitrin, MD  
Assistant Professor of Clinical Pediatrics (primary appointment)  
BA University of Rochester 1966  
MD Saint Louis University 1971

Alan Joseph Skoultchi, MS, MD  
Instructor in Clinical Pediatrics (primary appointment)  
BS Duke University 1989  
MS University of Pennsylvania 1990  
MD U Medical-Dental Of New Jersey 1995

Carolyn Anne Delaney Smith, MD  
Assistant Professor of Pediatrics (primary appointment)  
MD Washington Univ in St. Louis 2000  
BA Rice University 1996

Joshua C Smith  
Instructor in Clinical Pediatrics (primary appointment)

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Assistant Professor of Clinical Pediatrics (primary appointment)  
MD University of Nairobi 1975  
UNKNOWN University of Nairobi 1975

Robert D Spewak, MD  
Instructor in Clinical Pediatrics (primary appointment)  
MD Saint Louis University 1979  
BA Drake University 1975

Craig A Spiegel, MD  
Assistant Professor of Clinical Pediatrics (primary appointment)  
MD Case Western Reserve Univ 1982  
BA Washington Univ in St. Louis 1978

Philip Charles Spinella, MD  
Professor of Pediatrics (primary appointment)  
BS Tufts University 1991  
MD New York Medical College 1995

Jennifer E. Sprague, MD, PHD  
Assistant Professor of Pediatrics (primary appointment)  
MD Washington Univ in St. Louis 2007  
PHD Washington Univ in St. Louis 2007
BS Indiana University Bloomington 2000

Mythili Srinivasan, PHD, MD, MS
Professor of Pediatrics (primary appointment)
PHD Saint Louis University 1991
BS University of Madras 1981
MD Saint Louis University 1996
MS Madurai Kamaraj University 1983

Danielle R St Leger
Instructor in Clinical Pediatrics (primary appointment)

Kristin Voellinger Stahl, MD
Instructor in Clinical Neurology (primary appointment)
BA Johns Hopkins University 1992
MD University of Missouri 1996

Sarah A Stanage, MD
Assistant Professor of Pediatrics (primary appointment)
BS Washington Univ in St. Louis 2001
MD University of Louisville 2008

Ashley L. Steed, MD, PHD
Instructor in Pediatrics (primary appointment)
MD Washington Univ in St. Louis 2008
PHD Washington Univ in St. Louis 2008
BS Duke University 2001

Norman P Steele, MD
Instructor in Clinical Pediatrics (primary appointment)
BA Indiana University Bloomington 1968
MD Indiana University Bloomington 1972

Miriam Bathia Steinberg, MD
Instructor in Pediatrics (Pending Dean's Approval) (primary appointment)
MD Washington Univ in St. Louis 2015
BS Washington Univ in St. Louis 2011

Leena Lata Stemler, MD
Assistant Professor of Pediatrics (primary appointment)
MD Brown University 2007
BA Brown University 2003

Randall S Sterkel, MD
Assistant Professor of Clinical Pediatrics (primary appointment)
BA Duke University 1989
MD Washington Univ in St. Louis 1993

Anita R Stiffelman, MD
Associate Professor of Clinical Pediatrics (primary appointment)
BA Washington Univ in St. Louis 1983
MD New York Medical College 1987

Jeffrey R Stokes, MD
Professor of Pediatrics (primary appointment)
MD KANSAS U SCHOOL OF MEDICINE 1991
BS Kansas State University 1987

Janis Marie Stoll, MD
Assistant Professor of Pediatrics (primary appointment)

BA Washington Univ in St. Louis 2012
MD Eastern Virginia Med School 2004

Stephen I Stone, MD
Instructor in Pediatrics (primary appointment)
BS University of Illinois Chicago 2005
MD Rosalind Franklin University 2010

Gregory A Storch, MD
Ruth L. Siteman Professor of Pediatrics (primary appointment)
Professor of Medicine
Professor of Molecular Microbiology
BA Harvard University 1969
MD New York University 1973

Robert H Strashun, MA, MD
Associate Professor of Clinical Pediatrics (primary appointment)
MA Yeshiva University 1978
MD New York University 1982
BA Yeshiva University 1978

M. Anne Street, MD, MA
Assistant Professor of Clinical Pediatrics (primary appointment)
BS Defiance College 1968
MD University of Illinois 1976
MA University of Connecticut 1970

Judith M. Stucki-Simeon, MD
Instructor in Clinical Pediatrics (primary appointment)
MD Univ of Wisconsin Madison 1987

Rosa M Suarez-Solar, MD
Instructor in Clinical Pediatrics (primary appointment)
MD School Not Listed 1991
BA University of Puerto Rico 1990

Lisa Suffian, MD
Instructor in Clinical Pediatrics (primary appointment)
BS University of MO Kansas City 1990
MD University of MO Kansas City 1996

Toshifumi Sugatani, PHD, DDENT
Assistant Professor of Pediatrics (primary appointment)
PHD Meiji University 2003
DDENT Asahi University School of Den 2018

Christopher D Suhre
Instructor in Pediatrics (Pending Dean's Approval) (primary appointment)

Stuart C Sweet, PHD, MD
W. Mckim O. Marriott Professor of Pediatrics (primary appointment)
BS University of Michigan 1981
PHD University of Michigan 1989
MD University of Michigan 1990

Amanda Sweetland
Instructor in Clinical Pediatrics (primary appointment)

Susan C. Sylvia
Instructor in Clinical Pediatrics (primary appointment)

**T**

**Phillip Irwin Tarr, MD**
Melvin E Carnahan Professor of Pediatrics (primary appointment)
Professor of Molecular Microbiology
MD Yale University 1980
BA Brown University 1975

**Kristen A Terrill**
Instructor in Clinical Pediatrics (primary appointment)

**Donna T Thackrey, MD**
Instructor in Clinical Pediatrics (primary appointment)
BS John Carroll University 1990
MD Wright State University 1994

**Stephen Thierauf**
Instructor in Clinical Pediatrics (primary appointment)

**Michael D Thompson, PhD, MD**
Instructor in Pediatrics (primary appointment)
PHD University of Pittsburgh 2012
BS Washington Univ in St. Louis 2003
MD University of Pittsburgh 2012

**Mary A Tillman, MD**
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MD Howard University 1960

**Robert W Tolan Jr., MD, MA**
Instructor in Clinical Pediatrics (primary appointment)
MD Washington Univ in St. Louis 1987
BA Indiana University Bloomington 1982
MA Indiana University Bloomington 1983

**Scott A. Trail, MD**
Instructor in Clinical Pediatrics (primary appointment)
MD University of MO Columbia 1990
BA Saint Louis University 1985

**Indi Trehan, MPH, MD**
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BS University of CA Berkeley 1998
MPH Northwestern University 2004
MD Northwestern University 2004

**Garland R Tschudin, MD**
Instructor in Clinical Pediatrics (primary appointment)
BA University of Missouri 1971
MD University of Missouri 1975

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MD Johns Hopkins University 1998
BA Bowdoin College 1994

**Yumirle Padron Turmelle, AA, MD**
Associate Professor of Pediatrics (primary appointment)

AA Miami Dade Community College 1993
BA University of Miami 1995
MD University of Florida 2000

**Ashlyn Brooke Turner, MD**
Assistant Professor of Pediatrics (Pending Executive Faculty Approval) (primary appointment)
BS University of Iowa 2008
MD University of Illinois College 2012

**April L Tyus**
Instructor in Clinical Pediatrics (primary appointment)
BA Washington Univ in St. Louis 1995

**U**

**Elizabeth C Utterson, MD**
Associate Professor of Pediatrics (primary appointment)
BA University of Notre Dame 1994
MD Creighton University 1998

**V**

**Akhshaya J Vachharajani, MD, MBBS**
Professor of Pediatrics (primary appointment)
MD University of Bombay 1986
MBBS Topiwala National Med College 1984

**George Van Hare, MD**
Louis Larrick Ward Professor of Pediatrics (primary appointment)
MD University of Connecticut 1980
BS Bates College 1976

**Yasasvi Vasili**
Instructor in Pediatrics (Pending Dean's Approval) (primary appointment)

**Laird Henry Vermont**
Instructor in Clinical Pediatrics (primary appointment)

**Zachary Andrew Vesoulis, MD**
Assistant Professor of Pediatrics (primary appointment)
MD Ohio State University 2009
BS Miami University 2005

**W**

**Kathryn Kerr Wade, MD**
Instructor in Clinical Pediatrics
MD Loyola University Chicago 2005
BS Saint Louis University 2000

**Jean V Wagner**
Instructor in Clinical Pediatrics (primary appointment)

**Colleen M Wallace, MD**
Associate Professor of Pediatrics (primary appointment)
Director, Humanities Program
BS University of Notre Dame 1997
MD Washington Univ in St. Louis 2001

**Jennifer Anne Wambach, MD**
Assistant Professor of Pediatrics (primary appointment)
MD Vanderbilt University 2001
BS Vanderbilt University 1997

Barbara B. Warner, MS, MD
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BS University of Dayton 1976
MS University of Massachusetts 1981
MD University of Cincinnati 1985

Michael S Watson, MS, PhD
Adjunct Professor of Pediatrics (primary appointment)
BS The American University 1974
MS University of Alabama 1978
PHD University of Alabama 1981

Viraine Weerasooriya, MD
Associate Professor of Pediatrics (Pending Executive Faculty Approval) (primary appointment)
BS University of Florida 1993
MD University of Florida 1997

Benjamin David Weintraub
Instructor in Clinical Pediatrics (primary appointment)

Don Weiss, MS, MD
Instructor in Clinical Pediatrics (primary appointment)
MS Saint Louis University 1996
MD School Not Listed 1986
BS Dickinson College 1979

Jennifer Corinne Wessman, MD
Instructor in Pediatrics (primary appointment)
MD Commonwealth College 2005
BS College of William and Mary 2001

Neil Harris White, MD
Professor of Pediatrics (primary appointment)
Professor of Medicine
BS State Univ of NY at Albany 1971
MD Albert Einstein College of Med 1975

Andrew J White, MD, MS
James P Keating Professor of Pediatrics (primary appointment)
Vice Chair of Medical Education in Pediatrics
BA Brandeis University 1986
MD University of Texas Southwest 1994
MS University of Chicago 1989

Nicole Izetta White, MD
Instructor in Clinical Pediatrics (primary appointment)
BS University of MO Columbia 2000
MD Indiana State University 2004

Karen Whiteside, MD
Instructor in Clinical Pediatrics (primary appointment)
BS Washington Univ in St. Louis 1993
MD Washington Univ in St. Louis 1998

Assistant Professor of Pediatrics (primary appointment)
MD Georgetown University 1994
MPH Saint Louis University 2001
BA Georgetown University 1989

Marcia Christine Willing, MD, MS, D SC
Professor of Pediatrics (primary appointment)
MD University of Virginia 1982
MS University of Michigan 1976
BS Goucher College 1973
D SC George Washington University 1981

David B Wilson, MD, PHD
Professor of Pediatrics (primary appointment)
Professor of Developmental Biology
MD Washington Univ in St. Louis 1986
BA Kalamazoo College 1980
PHD Washington Univ in St. Louis 1986

Rachel Elizabeth Witt, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MD University of Pennsylvania 2015

Loralee Jane Wold, MD
Instructor in Clinical Pediatrics (primary appointment)
MD Saint Louis University 1997
BA Saint Louis University 1993

Patricia Ann Wolff, MD
Professor of Clinical Pediatrics (primary appointment)
BA University of Minnesota 1968
MD University of Minnesota 1972

Mark Norman Woolley, MD
Instructor in Pediatrics (primary appointment)
BS Rockhurst College 2009
MD Saint Louis University 2013

Linda Xiao-Chen Wu, MD
Instructor in Pediatrics (Pending Dean's Approval) (primary appointment)
BS University of Waterloo 2007
MD Midwestern University 2011

Kathie R Wuellner, MD
Associate Professor of Clinical Pediatrics (primary appointment)
BS University of Illinois 1973
MD Saint Louis University 1978

Hayley Wurzel, MD
Assistant Professor of Clinical Pediatrics (primary appointment)
MD Washington Univ in St. Louis 1999
BS Brown University 1995

Kristine M Wylie, PHD
Assistant Professor of Pediatrics (primary appointment)
PHD Saint Louis University 2009
BA Southern Ill Univ Edwardsville 1996
and development as well as the unique role of the physician addressing normal and pathologic aspects of human growth and two 1-week rotations. This course emphasizes pediatric pathophysiology and normal growth and development from birth through adolescence. Two weeks are spent inpatient at St. Louis Children's Hospital in general pediatrics on 10.100 or 11.100. Two weeks are spent in pediatric acute care in one of the following: Acute Care at St. Louis Children's Hospital, Acute Care at Missouri Baptist Medical Center (community hospital) or Acute Care at Progress West Hospital (community hospital). One week is spent on newborn nursery in one of the following: assessment nursery at 6800 Parkview Tower or Missouri Baptist Medical Center nursery (community hospital). One week is spent in outpatient ambulatory clinic in one of the following: St. Louis Children's Hospital subspecialty clinics or Children's Specialty Care Center (CSCC) on Mason Road. Emphasis is on performing a pediatric history and physical examination and developing an appropriate differential diagnosis. Daily rounds with house staff and attending physicians as well as weekly case management conferences and bedside teaching further this emphasis.

Credit 231 units.

M65 Peds 808 Pediatric Asthma and Allergy
In a predominantly outpatient setting, students will evaluate patients with a wide variety of allergic and immunologic disorders including asthma, allergic rhinitis, anaphylaxis, food allergy, atopic dermatitis, urticaria, angioedema and primary immunodeficiency. Rotation goals include: (1) the extension of history-taking skills to include environmental exposures, (2) the recognition of physical findings suggestive of allergic disease, (3) understanding the indications and interpretation of diagnostic testing including skin testing and assessment of pulmonary function, and (4) application of appropriate therapeutic strategies to these disorders. Weekly didactic conferences and inpatient consultations provide additional educational opportunities to the student.

M65 Peds 809 Pediatric Pulmonary Sub-Internship
On the 7100 Respiratory Unit, the sub-intern is an active member of a multidisciplinary care team, which consists of attending pulmonologist or allergist, advanced practice nurses, second-year pediatric residents, unit nurses, and other care providers in assessing and managing pediatric patients at all stages of development.

Credit 27 units.

Courses
Visit online course listings to view offerings for M65 Peds (https://courses.wustl.edu/).
provides. The subintern takes responsibility for children with acute and chronic lung diseases admitted to the unit. The student will be co-managed and directly supervised by senior pediatric residents and attending physician in the daily care of patients. The rotation is structured to provide students with a clinical experience to allow them to gain exposure to the breadth of lung diseases seen at St. Louis Children's Hospital. The volume of patients on the 7100 Respiratory Unit and number covered by the sub-intern varies. He or she will typically be responsible for the care of two to six patients at any given time. The student will be exposed to children with wide-ranging lung diseases and breathing disorders, such as asthma, cystic fibrosis, bronchopulmonary dysplasia, bronchiolitis, pneumonia, chronic respiratory insufficiency, and congenital lung anomalies during their clinical rotation. The student will also have the opportunity to participate in tests and procedures essential to the practice of pulmonary and allergy medicine, including pulmonary function studies, flexible bronchoscopy, and overnight polysomnography. Sub-interns do not have evening coverage responsibilities, and weekend responsibilities are limited to two days during the four-week block. They are strongly encouraged to attend departmental and divisional conferences.

M65 Peds 811 Pediatric Critical Care Medicine
This elective is designed to familiarize the student with the diagnosis and treatment of critical illness in infants and children. To this end, each student is made responsible for a small number of assigned cases under the direct supervision of pediatric residents, pediatric critical care fellows, and faculty. The teaching activities emphasize the understanding of pathophysiologic processes that lead to respiratory, circulatory, and central nervous system dysfunction and their therapy in the developing subject. Students are expected to participate in all the daily activities of the Pediatric Intensive Care Unit at St. Louis Children's Hospital and be on occasional call after hours.

M65 Peds 813 Pediatric Cardiac Catheterization
This elective focuses on the interpretation of hemodynamic and angiographic data acquired in the cardiac catheterization laboratory.

M65 Peds 819 Pediatric Cardiology - Outpatient Service
Students will be exposed to the wide spectrum of pediatric cardiology on an outpatient basis. In addition to general cardiology clinics, several subspecialty clinics are also available, including heart failure/transplant, electrophysiology/inherited arrhythmias, pulmonary hypertension, William's syndrome, Down syndrome, and preventative cardiology clinic. Students will independently evaluate clinic patients referred for a variety of cardiac complaints, such as cardiac murmurs, chest pain, syncope, arrhythmia, as well a wide variety of congenital cardiac lesions, and report their findings to the attending. Cardiac auscultation skills will be enhanced through auscultation of cardiac patients in a clinic environment. Students will learn basics of ECG and echocardiogram interpretation by reviewing studies performed during clinic with the attending. Clinics are held at St. Louis Children's Hospital, and the Children's Specialty Care Center in West County. Students also have the option to participate in outreach clinics that occur on a monthly basis (locations include Cape Girardeau, Poplar Bluff, Rolla, Bonne Terre, and Columbia). Depending on interest, students may spend additional time in the echocardiography laboratory for more in depth exposure to echocardiography. Participation in weekly surgical conference and daily cardiology educational conferences is encouraged.

M65 Peds 826 Genetics and Genomic Medicine
The goal of this senior elective is to facilitate the acquisition of clinical skills and knowledge in genetics and genomic medicine. The student will actively participate in the diagnosis and management of pediatric and adult patients with genetic disease in both the ambulatory and inpatient settings. Emphasis will be placed on application of the science of genetics to the bedside and will include a broad exposure to patients with biochemical, metabolic, structural and complex genetic diseases. Students will have an opportunity to visit clinical laboratories involved with diagnosis of genetic disorders, including the cytogenetics, molecular genetics and biochemical genetics laboratories. Students will be expected to participate in the weekly clinical case conference.

M65 Peds 827 Pediatric Hematology/Oncology Sub-Internship
Students will assume the responsibilities of a pediatric resident on the inpatient Hematology/Oncology service at St. Louis Children's Hospital. Serving in a classic "sub-intern" role, the student will perform evaluations and manage, under the supervision of a senior resident, patients who span the scope of diseases in our discipline. Additional educational activities include: regularly held didactic lectures, participation in our weekly "tumor board" conference, reviewing peripheral smears and bone marrow aspirate specimens obtained from our patients.

M65 Peds 836 Pediatric Rheumatology
Opportunities are available to care for children with a variety of immunologic and rheumatologic disorders. Students will see patients in outpatient clinics and inpatient consultations. An in-depth approach to evaluating disorders of the immunologic system will be provided. Students will participate in evaluation of new patients with a variety of rheumatologic diseases including JRA, SLE, and scleroderma at both SLCH and Shriners Hospital clinics. Students may elect to participate in conferences and seminars.

M65 Peds 838 Pediatric Gastroenterology, Hepatology, and Nutrition
The rotation in Pediatric Gastroenterology, Hepatology, and Nutrition provides broad exposure to specialized and common pediatric gastrointestinal and hepatobiliary problems. Division patients are seen in the outpatient suites and in the hospital. Students evaluate outpatients with common pediatric complaints like abdominal pain, constipation, and poor growth. Additionally, students experience the ongoing outpatient care of patients with liver disease, inflammatory bowel disease, short-gut syndrome, celiac disease, and other rare disorders. The inpatient service provides experience in caring for patients with acute illnesses such as gastrointestinal bleeding, malnutrition, liver failure, complications of inflammatory bowel disease, and pancreatitis as well as seeing patients on the pediatric gastrointestinal consultation service. Students participate in diagnostic and therapeutic endoscopic procedures. At weekly divisional conferences, faculty, fellows, and students review pathology slides from current cases and discuss difficult patient problems and topics of interest.
M65 Peds 839 Antimicrobial Use, Resistance, and Stewardship
In 2013 the CDC estimated that 23,000 Americans die annually from antibiotic-resistant infections, and an additional two million are infected with one of these difficult-to-treat pathogens. The primary driver of this resistance is the use — and, more importantly, the misuse — of antibiotics. In 2015, the White House published the National Action Plan for Combating Antibiotic Resistance Bacteria. This plan calls for improvement in antimicrobial use in human and agriculture medicine, better diagnostics, increased collaboration domestically and internationally, and accelerated development of new antibiotic agents. This fourth-year elective rotation will be focused on educating the student on the current state of domestic and global antibiotic resistance and the mechanisms by which health care systems are addressing this problem. The student will participate in the daily antimicrobial stewardship activities conducted at St. Louis Children’s Hospital, attend weekly stewardship and clinical infectious diseases meetings both at the hospital and BJC system level, review antimicrobial use data, and participate in hands-on activities in the microbiology laboratory. At the end of this rotation, the student will be able to: 1. List the antimicrobials and the pathogens they effectively treat. 2. Analyze bacteria for genotypic and phenotypic resistance through standard and rapid microbiologic techniques. 3. Describe the antimicrobial stewardship interventions that can be implemented in the different health care settings. 4. List the social determinants that impact antimicrobial stewardship programs. 5. Explain how the microbiome and resistome are important in our efforts to improve antimicrobial use.

M65 Peds 840 Pediatric Infectious Diseases
This elective is designed to introduce students to the clinical aspects of routine and complex infectious diseases in children ages birth to 18 years. Students will perform ID specialty consultations on both inpatients and outpatients. Regular daily activities will include evaluation of new patients, work rounds on inpatient consults, and teaching rounds with the ID fellow and attending. Students will attend the general pediatric ID clinic and the pediatric HIV clinic, one half-day each per week. Formal teaching includes HIV and ID Core Curriculum sessions, a weekly pediatric ID case conference, a weekly joint clinical conference with the adult ID group, a weekly pediatric ID research conference, and weekly clinical microbiology teaching rounds in the bacteriology and molecular diagnostics labs.

M65 Peds 845 Pediatric Emergency Medicine
The goal of this elective is to provide the senior medical student with a broad introductory clinical experience in pediatric emergency medicine. Functioning as a sub-intern in the Emergency Unit of St. Louis Children’s Hospital, the student will have the opportunity to evaluate and manage patients with a wide variety of emergent and urgent medical and surgical problems. Examples include: respiratory distress, abdominal pain, lacerations, bone injuries, rashes, fever, etc. Students will work either a day shift (7:30 a.m.-3:00 p.m.) or an evening shift (3:00 p.m.-11:00 p.m.) in rotation. Daily teaching conferences are provided by the attending staff. A weekly meeting of the students and senior faculty will occur to review interesting cases. Also, attending staff and senior pediatric residents provide 24-hour on-site supervision. Each medical student will be asked to prepare a 20-minute presentation on a topic of their choosing.

M65 Peds 846 Child Abuse Pediatrics
The medical student will work with the Child Protection (CPP) team at St. Louis Children’s Hospital, which consists of two Child Abuse Pediatrics attending physicians, one Child Abuse Pediatrics fellow, a Pediatric nurse practitioner, a clinic nurse, and three social workers. Pediatric residents also may be rotating with the team at the same time. The student will observe inpatient consultations for physical and sexual abuse and outpatient clinic patients for physical and sexual abuse. The student may attend court cases and watch expert witness testimony by the CPP physicians/nurse practitioner. The student may see acute sexual assault cases conducted by the Sexual Assault nurse practitioners. The student will be asked to complete a short project on a topic related to child maltreatment and will present it to the team at the end of the rotation. The student will be given a list of readings/didactic activities to do during the rotation. The student will have daily (45 minute) lectures with one of the child abuse attending physicians on a variety of topics related to child maltreatment and will attend the Child Protection team meeting (one hour) every day. The student can also attend Pediatric Residency noon conference during this rotation.

M65 Peds 849 Pediatric Endocrinology and Diabetes
This elective is designed to include broad clinical experience in pediatric endocrinology and diabetes. The student will have an opportunity to evaluate both patients admitted to St. Louis Children’s Hospital and patients referred for consultation in our three outpatient clinics each week. In addition to a divisional conference to review referred patients, several joint conferences with the adult Endocrinology and Diabetes Division (clinical rounds, journal club/research seminar, case conference) are held weekly.

M65 Peds 852 Clinical Pediatric Pulmonary Medicine
This elective provides an excellent opportunity for students to be exposed to the full scope of respiratory diseases and sleep disorders in infants and children. Pediatric referrals will be seen in both an inpatient and outpatient setting. Rotation goals for students include: 1. gain greater insights into the genetics, epidemiology, pathophysiology, and clinical presentations of lung diseases in children. 2. learn the importance of the physical examination using inspection, percussion, and auscultation. 3. understand indications and interpretation of diagnostic tests, such as chest imaging, blood gas measurements, polysomnography, pulmonary function testing, and bronchoscopy with biopsy and lavage, and 4. learn to apply therapeutic interventions to common lung diseases. Unique aspects of this rotation include, a broad exposure to children with asthma, cystic fibrosis, ciliopathies, interstitial lung diseases, chronic lung disease of infancy, congenital lung malformations, and end-stage cardiopulmonary diseases referred for lung transplantation. Weekly didactic sessions, as well as divisional clinical conferences, provide opportunities for the trainee to develop his or her presentation skills.

M65 Peds 861 Newborn Medicine
The goal of this course is to provide students with responsibility for caring for newborn infants, who range from normal to acutely ill to chronically ill, and for their families. The physiology of the transition from fetal to extra-uterine existence, the pathophysiology of specific diseases, and primary accountability of the student for patient management decisions and procedures will be emphasized. In addition, collaboration with nursing staff and other health care providers in decision-making (especially concerning the viability of individual infants) and
family management will be regularly required. Students during each rotation will have the option to rotate through the Neonatal Intensive Care Unit at St. Louis Children's Hospital and/or the Neonatal Assessment Center/Labor and Delivery services at Parkview Tower, Barnes-Jewish Hospital. Students assigned to the Labor and Delivery Service will routinely be involved in normal newborn care and delivery room management. The student will be expected to rotate patient responsibilities every fourth night. Expectations during the rotation in the NICU (please check with your attending; schedules will vary): Arrive at 7 a.m. daily. On the first day of your rotation, arrive at the main desk and ask for your fellow to be paged. Examine assigned patients and write daily progress notes, discuss the plan with the supervising resident or fellow on the team. 8:00-8:30 a.m.: Attend NICU teaching rounds, Monday to Thursday. Location: West Conference Room. 8:30 to 8:45 a.m.: Radiology rounds, weekdays. Weekend schedules will vary. 8:45 to 10 a.m.: Patient care rounds, daily (please check expectations for presentations with your attending; duration and expectations will vary). 10:00-10:30 a.m.: Complete Total Parenteral Nutrition prescriptions (with help from fellow or pharmacist). 12 noon: All resident conference in SLCH auditorium. 1:00 -2:00 p.m.: Division conferences (Case Conferences, M and M and core lectures), Wednesdays only. Location: 5S28. 4:00 p.m.: Daily sign out rounds. 5:00 p.m.: On-call person stays and shadow the PL1 or PL2 on call. Post-call: Leave at noon, next day. Fridays: No teaching. Patient Care Rounds begin at 7:30 a.m. Grand Rounds at 9:15 a.m. Patient care will take precedence over attendance at conferences. A talk at the 7:45 a.m. conference is expected from students at least once during the rotation.

M65 Peds 875 Pediatric Renal Disease
This course is designed to provide the student with a wide exposure to all aspects of pediatric renal disease and an opportunity to explore a desired aspect of the field in-depth. The student will be an integral part of the Renal Team and as such will see both inpatients and outpatients. Students will have an opportunity to follow the courses of patients with acute renal disease as well as those with more chronic problems and will help to plan the evaluation and therapeutic management of these patients. Discussions and rounds with the attending staff and fellows emphasize the relationship between clinical problems and the pathophysiology of the underlying disease. These informal teaching sessions are supplemented by more formal sessions. These include renal attending rounds, renal research rounds and grand rounds, which are conducted weekly in conjunction with the Renal Division of Barnes-Jewish Hospital. Renal biopsy material is reviewed with the renal pathologists. Attendance at the weekly pediatric grand rounds and pediatric case conferences is encouraged. Opportunities in clinical and translational research projects will be discussed with interested students.

M65 Peds 876 Pediatric Lung Transplantation
St. Louis Children’s Hospital has the largest pediatric lung transplantation experience in North America. This unique clinical rotation will enable students to be exposed to the process of transplantation from referral and listing to the actual surgery and post-operative care. Both inpatient and twice weekly outpatient clinics will be available for participation and learning. The use of diagnostic tests, including flexible fiberoptic bronchoscopy with biopsies and bronchoalveolar lavage, histopathology of infection and graft rejection, and the complexities of immunosuppression will all be explored. Weekly multidisciplinary meetings with our team, as well as didactic, psychosocial, and ethical meetings will be available. Our patient referral base is worldwide, and includes infants and children with cystic fibrosis, pulmonary hypertension, complex congenital heart defects, surfactant protein defects and alveolar proteinosis.

M65 Peds 878 Clerkship In Rural Primary Care Pediatrics
The clerkship in rural primary care pediatrics is designed to provide the student with first-hand experience in general pediatric practice in a rural community setting. Students will have the opportunity to see patients in a private office, participate in delivery room resuscitation, evaluate patients in the emergency department, and provide pediatric consultation to family practitioners, obstetricians, and surgeons. The objective of this elective is to provide the student with the experience of serving as a general pediatrician providing comprehensive health services in a rural community. Students assume responsibility for ongoing care of patients and have opportunities to perform procedures.
Credit 154 units.

M65 Peds 900 Research Elective-Pediatrics
Research opportunities may be available. If interested, please contact the Department of Pediatrics.