**Welcome to the Annual Report of the**
**Department of Pediatrics**
**Saint Louis University School of Medicine**

I am pleased to present the annual report of the Department of Pediatrics for the academic year 2011-2012. This has been a successful year for our department and I am pleased to welcome the 16 new faculty members listed below.

<table>
<thead>
<tr>
<th><strong>Adolescent Medicine</strong></th>
<th><strong>Child Protection</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Victoria Cornelius, MD</td>
<td>Linda Shaw, MD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Critical Care</strong></th>
<th><strong>Neonatology</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nandini Calamur, MD</td>
<td>Catherine Cibulskis, MD</td>
</tr>
<tr>
<td>Lia Lowrie, MD</td>
<td></td>
</tr>
<tr>
<td>Matt Lunneen, NP</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Medical Genetics</strong></th>
<th><strong>General Academic Pediatrics</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachael Bradshaw, MS</td>
<td>Ashley Borawski, NP</td>
</tr>
<tr>
<td>Darbey Raible, MS, CGC</td>
<td>Matt Broom, MD</td>
</tr>
<tr>
<td></td>
<td>Gene LaBarge, MD</td>
</tr>
<tr>
<td></td>
<td>Rashmi Narayan, MD</td>
</tr>
<tr>
<td></td>
<td>Elizabeth Rhyne, NP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Emergency Medicine</strong></th>
<th><strong>Pulmonology</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ratna Acharya, MD</td>
<td>Kurt Sobush, MD</td>
</tr>
<tr>
<td>Hemina Bailey, MD</td>
<td></td>
</tr>
</tbody>
</table>

The hospital continues to make significant strides and, in this year, we added a visitor management system and new children’s playground, thanks to fundraising by Rally Squirrel. A diagnostic imaging project was planned with an additional 3T MRI, and two new 120-slice CT scanners. This has since been completed in a dedicated imaging suite. With regards to customer service, we have maintained family-centered rounds, outpatient satisfaction scores have continued to improve, average daily census in the NICU was extremely high, we introduced “Tea Time”, afternoon rounds for discharges, and changed the resident team structure. We started a new transport team in Cape Girardeau, Missouri and worked on reducing wait times for new patients to be seen in clinic. In general, we have seen a positive response to these changes, both on the part of faculty and staff morale and patient satisfaction.

The department continues to host an outstanding medical student education program, has consistently one of the highest ratings in the medical school and has received many Golden Apple Awards. SLU students have consistently exceeded the national average on the NBME shelf examination. Pediatrics continues to be a popular choice of career at SLU and this year we had 19 students enter residency in Pediatrics and one in Medicine Pediatrics. The Pediatric Residency Program led by Dr. Heidi Sallee, our Associate Chair for Education, with assistance from Dr. Faye Doerhoff and Dr. Bob Brooker. We did well in the match and have continued to make changes to improve the program. New duty hours restrictions were implemented without increased use of physician extenders and we increased the size of the program to 14 per year in Categorical Pediatrics and added two residents per year for Pediatric Neurology. Simulation continues to be a major interest of many faculty members, particularly Dr. Anthony Scalzo. The Department has numerous externally funded basic and clinical research programs which tend to fall into one of several topics: obesity, liver disease, allergy-pulmonology-cystic fibrosis-infection, neonatology, and outcomes in clinical research. Our fifth Pediatric Science Days was held in April and the visiting professor was Mary Dinauer, MD, PhD, from Washington University.

- continued on Page 4
There was a positive rebound in the number of grants awarded for research by members of the Department. We ran an Introduction to Research course and have maintained the Pediatrics Research Institute. The Department continues to enjoy an excellent relationship with SSM Cardinal Glennon Children’s Medical Center and receives much support from our CEO, Sherlyn Hailstone. With her leadership, we are continuing to plan for program expansion and recruitment to take advantage of opportunities that exist even in these difficult economic times.

- Robert W. Wilmott, MD
  IMMUNO Professor and Chair
  Saint Louis University Department of Pediatrics
  Pediatrician-in-Chief, Cardinal Glennon Children’s Medical Center
# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome</td>
<td>3</td>
</tr>
<tr>
<td>Division of Adolescent Medicine</td>
<td>7</td>
</tr>
<tr>
<td>Division of Allergy / Immunology</td>
<td>9</td>
</tr>
<tr>
<td>Division of Cardiology</td>
<td>15</td>
</tr>
<tr>
<td>Division of Child Protection</td>
<td>19</td>
</tr>
<tr>
<td>Division of Critical Care Medicine</td>
<td>21</td>
</tr>
<tr>
<td>Division of Dermatology</td>
<td>25</td>
</tr>
<tr>
<td>Division of Developmental Pediatrics</td>
<td>31</td>
</tr>
<tr>
<td>Division of Emergency Medicine</td>
<td>39</td>
</tr>
<tr>
<td>Division of Endocrinology</td>
<td>47</td>
</tr>
<tr>
<td>Division of Gastroenterology</td>
<td>53</td>
</tr>
<tr>
<td>Division of General Academic Pediatrics and Section of Hospital Medicine</td>
<td>61</td>
</tr>
<tr>
<td>Division of Hematology / Oncology</td>
<td>77</td>
</tr>
<tr>
<td>Division of Infectious Diseases</td>
<td>87</td>
</tr>
<tr>
<td>Division of Medical Genetics</td>
<td>89</td>
</tr>
<tr>
<td>Division of Neonatal Perinatal Medicine</td>
<td>97</td>
</tr>
<tr>
<td>Division of Nephrology</td>
<td>107</td>
</tr>
<tr>
<td>Division of Pulmonary Medicine</td>
<td>111</td>
</tr>
<tr>
<td>Division of Toxicology</td>
<td>119</td>
</tr>
<tr>
<td>Best Doctors in St. Louis</td>
<td>125</td>
</tr>
</tbody>
</table>
DIVISION OF ADOLESCENT MEDICINE

Annual Report 2011-2012

Introduction and Description

The goals of the Division of Adolescent Medicine are to improve the health of adolescents in the St. Louis region and surrounding areas as well as to educate health care providers about adolescent health issues. The division provides care for the health issues of adolescents with a focus on high-risk behaviors, outpatient gynecological evaluation and treatment, and care of teens with chronic illness. Seven outpatient clinics a week are staffed. There is daily inpatient availability for consultation and hospitalization. Ongoing medical care is provided to the youths at two Division of Youth Services facilities. A long standing unique program for treatment of children with eating disorders offers medical care and coordinates services with nutrition, psychology, and psychiatry for individuals from late childhood through adolescence in the inpatient and outpatient settings. In the inpatient setting, the concentration is on medical reseeding. Outpatient clinics are staffed in the Ambulatory Care Clinic, Danis Pediatric Clinic, and Glennon at St. Lukes.

The division provides educational opportunities to medical students and residents and participates in educational outreach to the community. Each intern of the Pediatric Residency program, each 2nd year of the Medicine/Pediatrics Resident program, and each Pediatric Neurology Resident spends a month with the division. During 2012, we also provided training to a 2nd year resident in Family Medicine. Lectures are provided for residents and medical students as part of the pediatric training program. Grand Rounds/Community Lectures were presented at Glennon and St. Luke’s Hospitals and at St. Louis Behavioral Health Institute. Division members participated in Pediatrics on Demand and in talks to local schoolchildren.

Faculty Profile

Victoria Cornelius, MD, Adjunct Associate Professor of Internal Medicine and Pediatrics
Special Interests: Partnering with patients to improve their health; use of Healing Touch and Yoga to improve patient health
Board Certification: Pediatrics, Internal Medicine, and Adolescent Medicine
Medical College: University of Louisville
Residency: St. Louis University School of Medicine

Marianne Dunstan, MD, Adjunct Associate Clinical Professor Pediatrics
Special Interests: Parenting of teens, growth and development, Vitamin D in delinquent teens
Board Certification: Pediatrics
Medical College: Saint Louis University School of Medicine
Residency: Saint Louis University School of Medicine, Cardinal Glennon Children’s Hospital

Dianne Elfenbein, MD, Professor Pediatrics, Division Director
Special Interests: Diagnostic dilemmas, gynecologic issues, STDs, eating disorders, teens with chronic illness, teen pregnancy
Board Certification: Pediatrics, Adolescent Medicine
Medical College: Johns Hopkins University School of Medicine
Residency: Johns Hopkins Hospital
Fellowship: Johns Hopkins Hospital (Pediatric Infectious Disease)
Meghan Guerra, MD, Adjunct Assistant Professor Pediatrics  
*Special Interests:* Normal growth and development, obesity, eating disorders, menstrual disorders  
*Board Certification:* Pediatrics  
*Medical College:* Saint Louis University School of Medicine  
*Residency:* Saint Louis University School of Medicine, Cardinal Glennon Children’s Hospital

Staff

Jenny Furtak, RN, CPNP, Certified Pediatric Nurse Practitioner  
*Interests:* Gynecology, sexually transmitted diseases, eating disorders  
*Certification:* Pediatric Nurse Practitioner  
*College:* Iowa Wesleyan College, BSN  
University of Missouri, Columbia, MSN

Theresa Forsythe, Medical Secretary

Publications
None in this calendar year.

Presentations

Marianne Dunstan, MD  
“Girls to Women: What to Expect from Puberty” presented to 5th and 6th grade mothers and daughters at Visitation Academy. April 16, 2012

Dianne Elfenbein, MD  
“Medical Complications of Eating Disorders in Adolescents” conference at St. Louis Behavioral Medicine Institute December 2, 2012  
Pediatrics on Demand:  
“Teen Girls and Period Problems” June 5, 2012  
Grand Rounds at Glennon:  
“Motivational Interviewing in the Pediatric Setting” October, 2011 with Jamie Wooldridge and Nadim Kanafani

Honors

Dianne Elfenbein, MD nominated for First Annual Ambassador’s Choice Award
Division of Allergy / Immunology

Annual Report 2011-2012

Introduction and Description

Service Overview
The Allergy/Immunology Division in the Department of Pediatrics provides clinical care of allergic and immunologic diseases, including:

- Asthma
- Allergic conjunctivitis
- Urticaria/angioedema
- Eosinophilic esophagitis/gastroenteritis
- Latex allergy
- Anaphylaxis
- Allergic bronchopulmonary aspergillosis
- Sinusitis, fungal sinusitis
- Acquired immunodeficiency diseases, e.g. PAIDS
- Allergic and non-allergic rhinitis
- Atopic dermatitis (eczema)
- Food allergy
- Drug allergy
- Adverse reaction to vaccines
- Insect allergy
- Hypersensitivity pneumonitis
- Congenital immunodeficiency diseases

Special Services
Jeffrey Modell Diagnostic & Research Center for Primary Immunodeficiencies. The immunodeficiency program at Cardinal Glennon Children’s Medical Center is a referral center for the Jeffrey Modell Foundation (JFM) and Immunodeficiency Foundation (IDF). The Division works with the Bone Marrow Transplantation Division in transplantation of severe T-cell immunodeficiencies. We are a center in an NIH sponsored Primary Immunodeficiency Disease Treatment Consortium headed by Dr. Morton Cowan at University of California San Francisco.

Allergy Challenge Clinic. The Allergy & Immunology Division has developed special clinics to perform food and drug challenges to evaluate for these allergic diseases.

Asthma Center for Children. The Divisions of Allergy & Immunology and Pulmonology formed an Asthma Center to provide care for pediatric asthma patients.

Eosinophilic Esophagitis Clinic. Allergy & Immunology formed this clinic led by Dr. Bradley Becker to provide care for pediatric patients with eosinophilic gastrointestinal diseases.

A/I Fellowship Training Program. The Pediatric and Internal Medicine Allergy & Immunology Divisions provides an Allergy/Immunology Fellowship Training Program. In addition, the Division regularly provides electives for Pediatric residents and medical students. Division members are active in the American Academy of Allergy, Asthma, and Immunology (AAAAI), the American College of Allergy, Asthma, and Immunology (ACAAI), and the World Allergy Organization (WAO), serving on committees, presenting talks and abstracts.

Clinical Immunology Laboratory. The Allergy & Immunology Divisions maintains a Clinical Immunology Laboratory as a reference laboratory to Pathology that is CAP and CLIA certified. The Laboratory performs diagnostic cellular functional studies, including lymphocytes proliferation, cellular cytotoxicity and cytokine synthesis. In addition, specialized studies to analyze T-cell signaling, CD40L expression and NBT are available.
Community Service. Allergy & Immunology Division members are active in the Asthma and Allergy Foundation, St. Louis Chapter. Allergy & Immunology also coordinated a St. Louis site for the ACAAI National Asthma Screening, this year for the St. Louis Cardinals Redbird Rookies, Busch Stadium, July 14 2012.

Faculty Profiles
Bradley A. Becker, MD, FAAAAI, Professor of Pediatrics, Co-Director of Asthma Center
Research Interests: Asthma, allergic rhinitis, sinusitis, atopic dermatitis, drug allergy, food allergy, immunodeficiency disorders
Board Certification: Pediatrics; Allergy & Immunology
Medical College: Loyola University of Chicago Stritch School of Medicine
Residency: University of Tennessee College of Medicine
Fellowship: SLU/A/I fellowship training program

Alan P. Knutsen, MD, FAAAAI, Professor of Pediatrics, Director of the Division of Allergy/Immunology
Research Interests: Genetics of Alternaria-sensitive asthma, Allergic bronchopulmonary aspergillosis, Primary immunodeficiency disorders
Board Certification: Pediatrics; Allergy & Immunology
Medical College: Saint Louis University School of Medicine
Residency: Saint Louis University School of Medicine, Cardinal Glennon Children’s Hospital
Fellowship: NIH Training Grant, Duke University Medical Center, Durham, NC

Manoj R. Warrier, MD, FAAAAI, Assistant Clinical Professor
Board Certification: Pediatrics; Internal Medicine; Allergy & Immunology
Medical College: Saint Louis University School of Medicine
Residency: Saint Louis University Combined Internal Medicine/Pediatrics
Fellowship: Saint Louis University

Allergy/Immunology Fellows
Theresa R. Jordan, MD
Fellowship: July 1, 2008 to June 30, 2010
Private practice in Little Rock, AR

Douglas R. Lotz, MD
Fellowship: July 1, 2008 to June 30, 2010
Private practice in Louisville, KY

Kim Waterhouse, MD
Fellowship: July 1, 2009 to June 30, 2011
Plans on private practice

Julie Hong, MD
Fellowship: July 1, 2010 to June 30, 2012

Jacquelyn Sturm, MD
Fellowship: July 1, 2010 to June 30, 2012

Katherine Convers, MD
Fellowship: July 1, 2011 to June 30, 2013
Anilkumar Katta, MD  
Fellowship: July 1, 2012 to June 30, 2014

Michael Anstas, MD  
Fellowship: July 1, 2012 to June 30, 2014

Allergy & Immunology Research Coordinator and Clinical Nurses  
Christine Fultz, RN  
Wendy Sanders, RN

Publications
7. **Knutsen AP.** Complement receptor deficiencies. eMedicine 2:1-6, August 2011.

Abstracts
2. Hong JC, **Knutsen AP.** The Role Of Skin Prick Testing And Specific IgE To Boiled Versus Unheated Cow Milk In Cow Milk Allergic Children. AAAAI March 2-6, 2012.
Honors and Other Academic Activities

Bradley A. Becker, MD

Journal Reviewer
- Journal of Pediatrics
- JACI: In Practice

Committees
AAAAI
- Adverse Reactions to Foods Committee (2010-present)
- Eosinophilic Gastrointestinal Disorders Committee (2010-present)

AAFA, Saint Louis Chapter
- Programming Committee, 2007-2012

Alan P. Knutsen, MD
Best Doctors in America – 2005-12

Editorial Board
- Current Pediatric Review
- eMedicine – Pediatric Allergy & Immunology Section
- Hospital Physician Allergy and Immunology Board Review Manual, Vol 1
- Pediatric Asthma Allergy Immunology
- The Open Pediatric Medicine Journal
- Journal of Allergy

Journal Reviewer
- Allergy
- American Journal of Respiratory and Critical Care Medicine
- Blood
- Chest
- Clinical Immunology
- Journal of Allergy and Clinical Immunology
- Journal Clinical Investigation
- Journal of Pediatrics
- Pediatric Allergy Immunology and Pulmonology
- Pediatric Infectious Disease Journal
- Pediatric Pulmonology

Committees
AAAAI
- Member AAAAI Training Program Directors
- Allergic Fungal Lung Diseases Task Force, 2009-12
- Allergic Fungal Lung Diseases Committee – 2011-present

Clinical Immunology Society
Communications Committee, 2007-08
Jeffrey Modell Foundation Referral Center – 2007-present
Council for Primary Immune Deficiency Diseases – 2008-present
Council for Primary Immune Deficiency Diseases, member – 2008-present
International Forum on Immunoglobulin Research, member – 2009-present
Jeffrey Modell Foundation Referral Center – 2007-present
Jeffrey Modell Diagnostic & Research Center for Primary Immunodeficiencies – 2010 - present
Invited Presentations

Bradley A. Becker, MD
"Phagocytic Immune Deficiencies", 1st Annual JMF Conference Primary Immunodeficiency, St. Louis, MO 7-8-2011.
"Chronic Mucocutaneous Candidiasis", 2nd Annual JMF Conference Primary Immunodeficiency, St. Louis, MO 6-8-2012.

Alan P. Knutsen, MD
"Gammaglobulin Therapy in Immunodeficiency" 1st Annual JMF Conference Primary Immunodeficiency, St. Louis, MO 7-8-2011
"Diagnosis and Management of Antibody Immunodeficiencies", 3rd Annual Allergy/Asthma/ENT Conference, American Academy of Physician Assistants in Allergy, Asthma & Immunology, San Antonio, TX 8-12-2011
"Overview of Primary Immunodeficiency Diseases" Immune Deficiency Foundation, St. Louis, MO, 12-10-2012
"The Hyper-IgE Disorders” 2nd Annual JMF Conference Primary Immunodeficiency, St. Louis, MO 6-8-2012
"Diseases of Immune Dysregulation (IPEX, HLH, ALPS)” 2nd Annual JMF Conference Primary Immunodeficiency, St. Louis, MO 6-8-2012

Grants

• Alternaria antigens in mold-sensitive asthmatic patients with moderate to severe persistent asthma
  Source: Genentech/Novartis
  PI: Alan P. Knutsen, MD
  Effort: 10% Direct Cost: $85,000, Indirect Cost 20% Period: 10-1-2008 to 9-20-2010

• Project ARK (AIDS/HIV Resources for KIDS)
  Source: Ryan White Title IV
  PI: Gregory Storch, MD (Washington University)
  Cooperating Institution Co-Investigator: Alan P. Knutsen, M.D.
  Direct Cost: $3,592 Indirect Cost: $287 Period: 8-1-08 to 7-31-10

• Primary Immune Deficiency Treatment Consortium
  Source: NIH
  PI: Morton Cowan MD
  Center PI: Alan P. Knutsen MD
  Effort: 3% Direct Cost: Period: 8-1-2009 – 7-31-14

• Jeffrey Modell Diagnostic & Research Center
  Jeffrey Modell Diagnostic Center for Primary Immunodeficiencies
  Source: Jeffrey Modell Foundation
  Center PI: Alan P. Knutsen MD
  Direct Cost: $150,000 Period: 2010-2013

• Clinical Study to evaluate the efficacy, pharmokinetics and safety of immunoglobulin intravenous (human) 10% (Newgam) in patients with primary immunodeficiency diseases
  Sponsor: Octapharma
  PI: Alan P. Knutsen, MD
  Period: 1-1-2010 Direct Cost: $20,856 per patient
Annual Report 2011-2012

Introduction and Description

The mission of the Division of Cardiology includes providing comprehensive patient care, actively participating in medical student and resident teaching, and exploring research questions related to cardiovascular diseases in neonates, children, adolescents and adults with congenital and acquired heart disease. The Dorothy and Larry Dallas Heart Center opened in early 2009, making the outpatient experience at Cardinal Glennon more accessible and patient-friendly as well as more efficient for our physicians and staff. Radiology and laboratory facilities are located adjacent to the Dallas Heart Center, centralizing outpatient cardiology care within the medical center.

Outpatient cardiology clinics at the Dorothy and Larry Dallas Heart Center are held on a daily basis. In addition, outreach clinics provide services to other areas in central and eastern Missouri as well as southern Illinois, providing pediatric cardiology support to those areas that are without local expertise. Echocardiography services are provided primarily at Cardinal Glennon Children’s Medical Center, and an active telemedicine program exists providing interpretation of echocardiograms that are transmitted from numerous other facilities in Missouri and Illinois.

A new hybrid cardiac catheterization lab/operative suite was opened in July 2011 and is the only such catheterization suite in the region for pediatric patients. This technology allows unique procedures involving interventional catheterization techniques combined with cardiac surgical intervention to be carried out in the same setting when indicated. Typical procedures also performed in the Cardiac Catheterization Laboratory include diagnostic catheterizations as well as the complete spectrum of interventional and therapeutic procedures, including balloon valvuloplasty, stent placement and device closure of anatomic defects.

Outpatient pacemaker and electrophysiology services are also provided, as well as electrophysiologic studies and catheter ablation procedures. Inpatient services include management of patients admitted with congenital and acquired cardiac conditions, cardiac consultation, and post-operative management of congenital heart disease. The Cardiac Transplantation Service evaluates patients for transplantation and manages these patients before and after cardiac transplantation.

Specialized clinics caring for patients with lipid disorders and adults with congenital heart disease are also held in the Dallas Heart Center. Fetal cardiology care is provided through the Dallas Heart Center as well as the adjacent Fetal Care Institute at Cardinal Glennon Children’s Medical Center, with support from Neonatology, Perinatology, Pediatric Surgery and Cardiovascular Surgery.

Teaching of introductory pediatric cardiology is provided by all cardiology faculty and includes education of medical students, interns, residents and community physicians. The division also provides education to nurses and other allied health providers. Teaching settings include inpatient rotations and daily ward rounds, outpatient clinics, and didactic lectures. Clinical and translational research projects are a focus of the Cardiology Division, and the faculty have been active in producing abstracts accepted for regional and national presentations, as well as published manuscripts in peer-reviewed journals.

The Cardiology Division continues to be in a period of growth, with successful recruiting resulting in the addition of new faculty members in the coming academic year.
Faculty Profiles

Burt I. Bromberg, MD, Children’s Heart Center, St. John’s Mercy Medical Center,
Adjunct Professor, Division of Pediatric Cardiology, Cardinal Glennon
Special Interests: Ablation therapy for arrhythmias, genetically based arrhythmias
Board Certification: Pediatrics; Pediatric Cardiology
Medical College: University of South Alabama, Mobile, AL
Residency: Tulane University School of Medicine, New Orleans, LA
Fellowship: C.S. Mott Children’s Hospital, University of Michigan Medical School, Ann Arbor, MI

Su-chung Chen, MD, Professor Emeritus, Pediatrics
Special Interests: Cardiomyopathy in children, genetic heart disease, morphometric
study in pulmonary vascular disease
Board Certification: Pediatrics; Pediatric Cardiology
Medical College: National Taiwan University Medical School
Residency: University of Chicago Hospital
Fellowship: University of Chicago Hospital

Saar Danon, MD, Assistant Professor of Pediatrics
Special Interests: Interventional cardiac catheterization, device development
Board Certification: Pediatric Cardiology
Medical College: University of California at Los Angeles School of Medicine
Residency: Cedars-Sinai Medical Center, Los Angeles, CA
Fellowship: University of California at Los Angeles School of Medicine

Saadeh B. Jureidini, MD, Professor of Pediatrics
Special Interests: Echocardiography with particular emphasis on assessment of the coronary arteries by
echocardiography, pulmonary hypertension, cardiac imaging, interventional cardiology
Board Certification: Pediatrics; Pediatric Cardiology
Medical College: Baghdad University School of Medicine
Residency: American University of Beirut Hospital and King Faisal Specialist Hospital and Research Center
Fellowship: Medical College of Georgia

Renuka Peterson, MD, Assistant Professor of Pediatrics
Special Interests: Non-invasive imaging including fetal and transesophageal echocardiography, exercise
physiology, cardiopulmonary testing
Board Certification: Pediatric Cardiology
Medical School: Harvard Medical School, Boston, MA
Residency: Johns Hopkins University School of Medicine, Baltimore, MD
Fellowship: University of California, Los Angeles, CA

Mohammad Babak Rahimi, MD, Assistant Professor of Pediatrics
Special Interests: Echocardiography, stress testing, Holter monitoring
Board Certification: Pediatrics, Pediatric Cardiology
Medical School: St. George’s University, School of Medicine, Basic Sciences Grenada, West Indies
Residency: UMDNJ, Robert Wood Johnson Medical School; Robert Wood
Johnson University Hospital; St. Peter’s University Hospital, New Brunswick, NJ
Fellowship: Pediatric Cardiology, Northshore/LU Health System, Schneider Children’s Hospital, New Hyde Park, NY
Kenneth O. Schowengerdt Jr., MD, Wieck-Sullivan Professor of Pediatrics,
   Director, Division of Pediatric Cardiology
   Director, Cardiac Transplant Program

Special Interests: Pediatric heart transplantation, study of non-invasive methods of rejection surveillance, myocarditis, mechanisms of cardiac inflammation, heart failure

Board Certification: Pediatric Cardiology

Medical School: Saint Louis University School of Medicine, St. Louis, MO
Residency: Baylor College of Medicine/Texas Children's Hospital, Houston, TX
Fellowship: The Lillie Frank Abercrombie Section of Pediatric Cardiology, Baylor College of Medicine, Texas Children's Hospital and Texas Heart Institute, Houston, TX

Angela Sharkey, MD, Professor of Pediatrics, Associate Dean, Faculty Affairs and Professional Development

Special Interests: Prenatal diagnosis of congenital heart disease, Marfan syndrome

Board Certification: Pediatrics, Pediatric Cardiology

Medical School: Saint Louis University School of Medicine, St. Louis, MO
Residency: Cardinal Glennon Children's Hospital, St. Louis, MO
Fellowship: The Children's Hospital of Philadelphia, Philadelphia, PA

Jamie Sutherell, MD, Assistant Professor of Pediatrics

Special Interests: Medical Education and Teaching; Echocardiography

Board Certification: Pediatrics, Pediatric Cardiology

Medical School: Medical College of Ohio, Toledo
Residency: Washington University/St. Louis Children's Hospital, St. Louis, MO
Fellowship: University of Cincinnati/Cincinnati Children's Hospital, Cincinnati, OH

Staff
Shelly Ayers, Medical Secretary
Barb Bequette, Medical Secretary

Cardiology Clinic Support Staff
Sue Yates, Cardiology Manager
Michael Czajka, PNP, MSN
Donna Marshall, RN
Mary Pat Spilane, RN
Lynn Hauver, RN
Shannon Holloran, RN
Elizabeth Eler, RN
Kim McHenry
Cheryl Doeschot
Crystal Goff
Kelli Murawski, PNP
Barb Kountzman, RN (CTS)
Stephanie Morrow, PNP

ECG/Holters
Elaine Mastin
Terra Hollins
Rita Scott
Cardiac Catheterization Laboratory
Kathy Tinker, LPN
Jodie Hundley, RN
Beth Price, RN
Lisa Bade, RT

Echo Lab
Cindy Marino, RDCS
Chrissy Gee, RDCS
Lisa Hohmann, RDCS
Ermina Keric, RDCS
Joel Rhodes
Mike Patterson

PACS Coordinator
Dave Bash, RT

Publications


Honors and Other Academic Activities
Bromberg, B: Best Doctors in America / Best Doctors in St. Louis

Jureidini, SB: Best Doctors in America / Best Doctors in St. Louis; Journal Editor, Case Reports in Cardiology; Journal Reviewer: Journal of Maternal Fetal Medicine, Pediatric Cardiology, American Journal of Cardiology, European Journal of Echocardiography, Journal of the American College of Cardiology, Intensive Care Medicine

Schowengerdt, KO: Best Doctors in America / Best Doctors in St. Louis; Journal Reviewer, Journal of Heart and Lung Transplantation, The Journal of Pediatrics; Medical Advisory Board, Children’s Heart Foundation, Missouri Chapter

Sharkey AM: Best Doctors in America / Best Doctors in St. Louis; America’s Top Cardiologist; Top Doctors in America; Journal Editor, Pediatric Update; Journal American College of Cardiology; Journal Reviewer, Teaching and Learning in Medicine

Presentations
Annual Report 2011-2012

Introduction and Description

The Division of Child Protection utilizes a multidisciplinary approach while providing expert assessment of victims and suspected victims of child maltreatment including physical abuse, sexual abuse, and neglect. Both inpatient and outpatient consultative services are provided at Cardinal Glennon Children’s Hospital. Outpatient clinical services are also provided through the St. Clair County Child Advocacy Center.

Educational responsibilities include medical students and faculty at Saint Louis University School of Medicine as well as residents, fellows, and staff at Cardinal Glennon Children’s Hospital. Educational opportunities are available to the medical, legal, child protective services, and law enforcement communities. Education and crisis intervention are provided to families on a regular basis.

The Division interfaces with community agencies to facilitate provision of optimal care and services to abused children. Expert medical consultation and testimony is provided to the legal community.

Faculty Profile

Timothy J. Kutz, MD
Director
Associate Professor, Pediatrics
Interest: Child Maltreatment – Head Injury; Foster Care Medical Home
Board Certified: Pediatrics, Child Abuse Pediatrics
Medical School: University of Missouri-Columbia
Internship: Rush-Presbyterian-Saint Luke’s Medical Center
Residency: Loyola University Medical Center
Fellowship: Child Abuse and Neglect. University of Colorado, Children’s Hospital-Denver

Staff

Karen Fishman, RN, BSN, MA, Med
Nurse Counselor

Cara Christianell, MSN, RN, CPNP
Nurse Practitioner
Clinical Instructor, Department of Mental Health, Family, Community, and Systems Nursing
Interest: Child Sexual Abuse
Board Certified: Pediatric Nursing Certification Board
Nursing School: Saint Louis University
Graduate School: Saint Louis University

Theresa Forsythe
Medical Secretary
Honors

Timothy J. Kutz, MD
Member, Ray Helfer Society (honorary society, field of child maltreatment)

Presentations

Cara Christianell, MSN, RN, CPNP
Child Sexual Abuse, Chamberlin School of Nursing
Child Sexual Abuse, Saint Louis School of Nursing, Master Students
Missouri Children’s Division Training
CGCMC Emergency Department Child Abuse In-Service

Timothy J. Kutz, MD
Missouri SAFECARE Network Training
Missouri Child First Training
Illinois CAC Finding Words Training
Child Abuse-The Pediatrician’s Perspective, Washington University’s Brown School of Social Work
Collaborative Medical Care, Open Forum: Children in Foster Care
Division of Critical Care

Annual Report 2011-2012

Introduction and Description

The Division of Pediatric Critical Care is heavily committed to patient care, but also participates in multidisciplinary education, community service, and biomedical research. Our intent is to provide state of the art medical management for critically ill children while improving the care of future patients through our education and research efforts. We provide community service through the individual specialized interests of our members.

Members of the Division staff the Pediatric Intensive Care Unit (PICU) at Cardinal Glennon Children’s Medical Center 24 hours/day with in house coverage. We will occasionally provide care in other locations including the Emergency Room, Operating Room, Cardiac Catheterization Laboratory and the Transitional Care Unit. Intensivists respond to life threatening emergencies throughout the hospital and lead the hospital’s Medical Response Team. The Division also provides sedation services for routine outpatient and inpatient procedures (approximately 1200 patients/year) as well as procedural assistance for patients requiring drain placement or vascular access.

Our role in the PICU centers on the delivery of state of the art respiratory, circulatory and neurological management of critically ill children. Our service volume is roughly 1000 patients per year (up 30% this past academic year alone) with either care provided as the primary managing service or through facilitating the care provided by other divisions and departments by co-management of every patient admitted to the PICU. We establish daily goals for all patients in the PICU and lead a multidisciplinary team composed of nurses, advanced practice nurses, respiratory therapists, dieticians, social workers and others to achieve those goals.

Our clinical workload helps provide educational opportunities to pediatric residents, medicine/pediatric residents, surgery residents, emergency medicine fellows and residents, nurses, medical students and learners from the Air Force CSTARS program. Residents spend two months on service and fellows in Pediatric Emergency Medicine spend 1 month in the Pediatric Intensive Care Unit becoming familiar with management issues and procedures related to critical care. Historically, the division has provided continuing medical education on a local, regional, national, and international basis.

Faculty Profiles

**Teresa Andreone, MD, PhD**

- Associate Professor
- **Research Interests:** Diabetes mellitus
- **Board Certification:** Pediatrics; Pediatric Critical Care
- **Medical College:** University of Health Sciences/ The Chicago Medical Schools
- **Residency:** University of Cincinnati Hospitals Children’s Hospital, Cincinnati, Ohio
- **Fellowship:** Division of Critical Care Medicine, University of Cincinnati, Children’s Hospital Medical Center

**Nandini Calamur, MD**

- Assistant Professor
- **Research Interests:** Palliative care, ethics
- **Board Certification:** Pediatrics, Pediatric Critical Care
- **Medical College:** St. Louis University School of Medicine
- **Residency:** Children’s Hospital of Pittsburgh, University of Pittsburgh Medical College
- **Fellowship:** Pediatric Critical Care Medicine, Northwestern University Feinberg SOM
Gordon Gale, MD  
Research Interests: Procedural sedation  
Board Certification: Pediatrics; Pediatric Hematology and Oncology; Pediatric Critical Care Medicine  
Medical College: Saint Louis University  
Residency: Saint Louis University, Cardinal Glennon Children’s Hospital  
Fellowship: American Cancer Society (Pediatric Oncology), University of Pennsylvania, The Children’s Hospital of Philadelphia

Jeremy S. Garrett, MD  
Research Interests: Simulation based education of residents, medical students and nurses, outcomes based/evidence based research in the PICU  
Board Certification: Pediatrics; Pediatric Critical Care Medicine  
Medical College: University of Nebraska Medical Center  
Residency: University of California Los Angeles  
Fellowship: University of Utah; Primary Children’s Medical Center

Lia Lowrie, MD  
Research Interests: Pediatric Sedation, ECMO, Mechanisms and Models of Hospital Care, Quality Improvement  
Board Certification: Pediatrics; Pediatric Critical Care  
Medical College: Case Western Reserve University School of Medicine  
Residency: Rainbow Babies and Children’s Hospital/Case Medical Center  
Fellowship: Rainbow Babies and Children’s Hospital/Case Medical Center

Christina Mannix, MD  
Research Interests: Procedural sedation  
Board Certification: Pediatrics  
Medical College: SIU Springfield Medical School  
Residency: Naval Medical Center, Portsmouth, Virginia

Robert Ream, MD  
Research Interests: Quality assurance, organ donor management  
Board Certification: Internal Medicine; Pediatrics; Pediatric Critical Care  
Medical College: Jefferson Medical College, Philadelphia  
Residency: Saint Louis University, Cardinal Glennon Children’s Hospital  
Fellowship: University of Pennsylvania, Children’s Hospital of Philadelphia

Jason Werner, MD  
Research Interests: Simulation based education, diagnosis and management of nosocomial complications in the PICU  
Board Certification: Pediatrics; Pediatric Critical Care  
Medical College: University of Missouri-Columbia  
Residency: Saint Louis University, Cardinal Glennon Children’s Medical Center  
Fellowship: Washington University, Children’s Hospital of St. Louis

Michael Zahra, MD  
Research Interests: Simulation based education  
Board Certification: Pediatrics; Pediatric Critical Care  
Medical College: Medical College of Wisconsin, Milwaukee  
Residency: Saint Louis University, Cardinal Glennon Children’s Medical Center  
Fellowship: University of Miami, Jackson Memorial Hospital
Staff

Georgene Menshouse, RHIT, Medical Secretary
Jessica Leet, RN, NP
Anne Gildehaus, RN, NP (Glennon based)

Research Highlights

Drs. Werner, Garrett and Zahra have been primarily involved in leading educationally based research involving applying the SCCM developed Pediatric Fundamentals for Critical Care Support to resident education and assessing efficacy. Dr. Ream is working with the regional and national organ donation coordinating agency to develop evidenced based quality metrics for organ function after pediatric donation. Dr. Lowrie continues to work on multi-institution procedural sedation quality research with several accepted or submitted articles pending peer review.

Publications


Honors and Service

Teresa Andreone, MD, PhD
St. Louis Magazine’s Best Doctors in St. Louis, 2006-2012
Best Doctors in America, 2007-12

Jeremy Garrett, MD
St. Louis Magazine’s Best Doctors in America, 2007-12
Best Doctors in America, 2007-12

Robert Ream, MD
St. Louis Magazine’s Best Doctors in St. Louis, 2005-12
Best Doctors in America, 2007-12

Gordon Gale, MD
Board of Director Leukemia and Lymphoma Society
Board of Directors, Society for Pediatric Sedation

Lia Lowrie, MD
President, Society for Pediatric Sedation
Department of Pediatrics William J Keenan Award for Outstanding Teaching (June 2012)
Presentations


Lowrie: Pediatric Renal Replacement Therapies and Intracranial Hypertension
PICU Symposium
Peking University First Hospital
Beijing, China

Lowrie: Quality Pediatric Procedural Sedation (February 2012)
Pediatric Grand Rounds
Saint Louis University School of Medicine at Cardinal Glennon Children’s Medical Center
DIVISION OF DERMATOLOGY

Annual Report 2011-2012

Introduction and Description

July 1, 2012 marked the fifth anniversary for the Division of Dermatology. The members of the division include one full-time physician, a 0.3 FTE physician assistant, two full-time RNs and a 0.8 FTE administrative assistant. We are a nationally recognized center of expertise, providing tertiary medical, surgical and investigative dermatology services for children with all forms of skin disease. Remote dermatology consultation is available seven days per week, 24 hours per day via the Access Line and internet. In-person consultation is provided to the Emergency Department, in-patient services and hospitalized dermatology patients at Cardinal Glennon Children’s Medical Center (CGCMC). Ambulatory patients are seen at CGCMC three to four days per week in addition to SSM-owned remote locations, St. Anthony’s and St. Charles until December 2011 and Lake St. Louis since January 2012. The division directs industry-sponsored clinical trials utilizing the infrastructure of the Department of Pediatrics Clinical Trials Unit.

In addition to a very busy clinical service, the division also provides lectures and didactic training for Dermatology and Pediatrics residents, medical students, allied health students from Saint Louis University and other collaborating institutions, as well as CGCMC clinical staff. Dr. Siegfried has been an active mentor for medical students and Dermatology residents, supervising several student manuscripts and 5 Dermatology resident research projects and in 2011-12, including one national award submission. Dr. Siegfried is also a frequently invited speaker, and appointed member of national working groups.

FACULTY PROFILE
Elaine C. Siegfried, MD, Director, Professor of Pediatrics and Dermatology
Medical School: University of Missouri-Columbia (MD 1985)
Residencies: University of Iowa (Pediatrics 1988, Dermatology 1991)
Clinical Research Interests: Severe inflammatory skin disease, pediatric drug development
Other Areas of Expertise: Certification/accreditation, physician workforce and pharmaceutical regulation

STAFF PROFILES
Clinical Staff
Anne Weissler, PA-C
Master of Medical Science: Saint Louis University School of Allied Health 2009
Certification: Citi Collaborative Institutional Training Initiative

Samantha Scego, BSN, Clinical Nurse
Bachelors of Nursing: Barnes College of Nursing at University of MO-St. Louis 1996
Certification: Citi Collaborative Institutional Training Initiative

Joyce Hoffman, BSN, CCM, CPU
Saint Louis University School of Nursing 1983;
Certification: Case Management
Administrative Staff
Lisa Jones, CMAS, Medical Secretary
Certification: Citi Collaborative Institutional Training Initiative

2011-12 RESEARCH HIGHLIGHTS

Ongoing Clinical Trials:
Phase 2, An Open-Label Extension Study to Evaluate the Safety of Etanercept in Pediatric Subjects with Plaque Psoriasis (Amgen)
Phase 2-3 Randomized, Double-Blind, Controlled, Multi-Dose, Multicentre, Adaptive Study in Infants with Proliferating Infantile Hemangiomas Requiring Systemic Therapy to Compare 4 Regimens Of Propranolol to Placebo (Pierre Fabry)

Pending Clinical Trials: A Multicenter, Randomized, Double-Blind, Phase 3 Study of the Safety, Efficacy, Systemic Exposure, and Pharmacodynamics of Calcipotriene Foam, 0.005%, Versus Vehicle Foam in Pediatric Subjects (Ages 2 to 11 Years) with Plaque Psoriasis (Steifel)

Extramural Collaborative Efforts:
Evaluation of Phenotypic and Genetic Properties in Male Subjects Affected By X-linked Hypohidrotic Ectodermal Dysplasia (XLHED): Intrafamilial Variation and Assessment of Skin Properties (NFED, University of Colorado via ICTS)
Systemic Therapies for Pediatric Atopic Dermatitis (via PeDRA - Pediatric Dermatology Research Alliance - an independent multicenter consortium of clinical investigators)
Neonatology and Dermatology Expert Working Groups, WHO ICD-11 revision project

BPCA/NICHD
2009-2012 Expert Working Groups Best Pharmaceuticals for Children Act (BPCA) Prioritization
2010: Gastroenterology Therapeutic Area
2011: Hematology Therapeutic Area and the Pulmonary Therapeutic Areas
2011: Author and primary sponsor of the application to prioritize Dosing, safety and efficacy of methotrexate in treatment of severe inflammatory disease in children, added to the BPCA Priority List of Needs in Pediatric Therapeutics for 2011
(http://b pca.nichd.nih.gov/about/process/upload/2011_Priority_List_and_Summary_for_web_posting_04_07_1 1.pdf)
2012: Chair Dermatology Therapeutic Area

2011-12 PUBLICATIONS

Papers
Peterson R, Siegfried EC. Chronic bullous disease of childhood.
http://www.pediatricsconsultantlive.com/display/article/1803329/1983839
Bruns A, Siegfried EC. Minocycline hyperpigmentation.
http://www.pediatricsconsultantlive.com/photoclinic/content/article/1803329/2026926
**Chapters**


**Abstracts**

Gotsiridze T, **Siegfried EC**. Profile of Staph/Strep Carriage among children with Atopic Dermatitis Presented at the 70th Annual AAD meeting, San Diego, CA March 2012.

Chaudry S, Armbrecht E, **Siegfried EC**. Analysis of access to Dermatology care for children with Atopic Dermatitis by Private and Public Payors. Presented at the 70th Annual AAD meeting, San Diego, CA March 2012 Winner-Best Presentation

**Siegfried EC**, Olin JT. Pimecrolimus cream 1% rapidly reduces the extent and severity of atopic dermatitis in infants and children, including head-and-neck involvement: post hoc analysis of a 6-month, randomized, vehicle-controlled trial. Presented at the Annual Society for Investigative Dermatology meeting, Raleigh, NC April 2012

Mulligan K, Knutsen A, Derdoy J, **Siegfried E**. A case of NEMO-HED. Presented at the AAAI meeting, April 2012

**Dermatology 2012 Resident Research Day Projects**

Lewitt GM, **Siegfried EC**, Armbrecht E, Simonetta C. Evaluation of Lab Abnormalities in Pediatric Dermatology Patients on Methotrexate

Gotsiridze T, **Siegfried EC**. Profile of Staph/Strep Carriage among children with Atopic Dermatitis

Tobin C, **Siegfried EC**. Analysis of Pediatric Atopic Dermatitis: The Relationship Between Disease Progression and Total IgE/Percent Positive Immunocaps

Chaudhry S, **Siegfried EC**. Pediatric Dermatology No-Show Rates: Impact of Insurance Type and Scheduling Policy

Kuo J, Armbrecht E, Simonetta C, Butala N, **Siegfried EC**. Four Year Interim Analysis of ED Admissions for Atopic Dermatitis at a Busy Urban Children’s Hospital

**HONORS**

**Siegfried, EC**

Best Doctors in America, 1994-2012

American Dermatological Association (an honorary society recognizing contributions to the field of dermatology), 2006-present

Board of Directors, American Board of Dermatology (Jan. 2001-Dec. 2010); President (2010);
Chair, Pediatrics Curriculum Committee (2006-10);
Chair, Task Force on Pediatric Dermatology Training (2011)
Fellow, American Academy of Dermatology (since 1989)
Member, Environment and Drugs Committee (2004-2010)
Vice Chair (2006-2007), Chair (2007-2010)
Member, Council on Government Affairs Health Policy & Practice (since 2007)
Member, Patient Advocacy Task Force (since 2004)
National Foundation for Ectodermal Dysplasias Scientific Advisory Board (since 1997)
Member, Scientific Advisory Council, National Eczema Association (since 2010)
Dermatology Times Editorial Advisory Board (since 2008)
Missouri Dermatologic Society (since1991)
Board of Directors (since 2007-2009)
St. Louis Dermatologic Society (since 1991)
Society for Pediatric Dermatology (since 1988)
Executive Committee (1995-2011)
Chair, Certification Committee (2001-2011)
Co-Chair, Residency and Training, Strategic Planning Committee (2006-2011)
Member, Iowa Dermatological Society (since 1988)
Honorary Lifetime Member (since 2003)
Fellow, American Academy of Pediatrics (since 1989)
Member, Section on Dermatology (2000-2002)


PRESENTATIONS
Siegfried EC
– “Pediatric Dermatology Review” SLU Dermatology Grand Rounds. St. Louis, MO, November 2011

Other contributions
– Organizer and Host: 25th National Foundation for Ectodermal Dysplasias Annual Family & Scientific Conference at SLU July 2011
– Creation and dissemination of an array of informative handouts for patients and referring physicians, available via Epic and the CGCH website.

Popular press
Dermatology Times
– Impact of a unique physical feature goes more than skin deep. Apr 1, 2012
– Effects of resident work hours and hospitalist movement on patient care. Dec 1, 2011
– A troubled teen and the complex world of managed care. Aug 1, 2011
– Remember to weigh the risks of disease when considering the risks of treatment. Apr 1, 2011

St. Louis News Pierce with Caution. January 26, 2012

St. Louis Post Dispatch
– Drug might help shrink birthmarks. April 13, 2011
Internet Resources
100% of Dr. Siegfried’s patients would recommend her to friends and family.
Topical Corticosteroids: Myths & Facts
http://www.nationaleczema.org/eczema-treatments/topical-corticosteroids
What is Hand Eczema?
http://www.nationaleczema.org/living-with-eczema/hand-eczema
Annual Report 2011-2012

Introduction and Description

The Knights of Columbus Center provides diagnostic evaluation, follow-up, support and advocacy in the community for children and their families with a broad range of neurodevelopmental disabilities, communication disorders, particularly autism spectrum disorder, attention deficit/hyperactivity disorder, intellectual disabilities, and genetic disorders with associated development and behavioral concerns.

Over the past year, the Knights of Columbus Developmental Center has made significant improvements in the services provided to children with autism spectrum disorders (ASD). Since the beginning of the Missouri Centers for Autism (MCA) contract, a significant increase in the patient evaluations have been performed resulting in a decreased wait time from 18 to 2.5 months. We continue to recruit staff members with a wide range of expertise in the clinical field, research and education. In an effort to implement established evidence based practices for the diagnosis of ASD, evaluations are performed by a multidisciplinary team approach. In collaboration with the Psychology department and C.H.A.M.P. (Canine Helpers Allow More Possibilities) we now offer a dog therapy program. We have also introduced PEERS, a social skills training program for adolescents with ASD and their families. In collaboration with Speech Pathology and Occupational Therapy departments in SSM Cardinal Glennon we have started the Move to Communicate program that promotes communication in nonverbal preschoolers. Our Center offers behavior workshops for families to learn techniques based on Applied Behavior Analysis (ABA) therapy provided by certified ABA consultant. In addition we offer a training program for families of children newly diagnosed with ASD. We frequently meet with state officials and US senators and are working with the media to educate the public about children with disabilities and their needs.

The Center has an ongoing contract with the Illinois Department of Human services providing clinical evaluations for children in the Early Intervention program as well as developmental pediatric consultation for Early Intervention service coordinators for the southern half of Illinois. "Challenging case reviews" and training programs for service coordinators/providers were held in multiple locations in southern IL throughout the year.

The teaching goal of the division is to support the educational needs of trainees at different levels of their undergraduate and professional education. We have developed a comprehensive web-based developmental/behavioral pediatric curriculum geared to resident physicians to address the developmental issues they may encounter in their office or clinic setting. Each faculty member participates in a wide range of educational venues, including lectures for and direct training of physician assistants, nurse practitioners, residents, medical students, resident didactic lectures, invited lectures, professional panels, programs for physicians and professional pediatric societies, special education school districts and support advocacy groups both in the greater St. Louis region and nationally. In June of 2012 we held a workshop on ASD for physicians and other clinicians.

We continue to serve as investigators and collaborators in multi site research grants. Our staff has been involved in multiple publications with peer review articles and books. We participated in International and national research meetings and presented abstracts, posters and presentations in the field of Autism and other developmental disorders.
**Biosketch of Faculty Members / Faculty Profiles**

**Barbara Braddock, PhD, CCC-SLP**
Special Interest: Communication Disorders
Board Certification: American Speech Language Hearing Association CCC-SLP, PEERS program certification.
Graduate School: University of Missouri Columbia

**Rolanda Maxim, MD Associate Professor of Pediatrics, Medical Director Autism Center**
Special Interests: Autism spectrum disorders, developmental screening, dog therapy, ADHD
Board Certification: Pediatrics; Developmental/Behavioral Pediatrics
Medical College: Faculty of Medicine, Bucharest, Romania
Residency: Carmel Hospital, Technion Institute School of Medicine, Haifa, Israel
Fellowship: Child Developmental Center, Hasbro Children’s Hospital, Brown University School of Medicine

**Shulamit Portnoy, MD Pediatric Neurologist**
Special Interest: Children with developmental, behavioral and mental health conditions
Board Certification: Pediatrics; Pediatric Neurology
Medical College: Chernovtsy State Medical Institute, Ukraine
Residency: Sackler School of Medicine, Tel-Aviv, Israel (Pediatrics)
Fellowship: Sackler School of Medicine, Tel-Aviv (Neonatology)
Fellowship: Saint Louis Children’s Hospital, Washington University (Pediatric Neurology)

**Petra Alexandra Swidler, MD**
Special Interest: Retts Syndrome, Genetics of Autism, Outcome of children with Autistic Spectrum Disorder and parents with mental health concerns
Board Certification(s): Board Certified in Pediatrics in Germany;
General Pediatric Board Examination anticipated on 10/10/2011
Medical College: Westfaelische Wilhelms-Universitaet, Muenster Germany
Residency: Pediatrics in Germany
Residency: Pediatrics, University of Iowa, University of Illinois, Peoria
Fellowship: Medical Genetics, University of California, San Francisco

**Cristiana Teodorescu, MD, Child and Adolescent Psychiatrist**
Research interests: Autism spectrum disorders, ADHD, Tic Disorders, Pica, Elimination disorders, Mood disorders, PTSD, Psychopharmacology, Psychosocial Treatments of Children and Adolescents.
Board Certification: Adult Psychiatry
Medical College: "Carol Davila" University of Medicine and Pharmacy, Bucharest, Romania,
Residency: Albert Einstein Medical Center, Philadelphia, Residency in Psychiatry
Fellowship: Washington University School of Medicine, St. Louis, Child and Adolescent Fellowship Program

**Kimberly A. Twyman, MD Assistant Professor**
Special Interests: Medical student/resident education, developmental outcomes of prematurity, early intervention
Board Certification(s): Pediatrics; Developmental-Behavioral Pediatrics
Medical College: Saint Louis University School of Medicine
Residency: Pediatrics, Saint Louis University School of Medicine
Fellowship: Developmental-Behavioral Pediatrics, Medical University of South Carolina
Debra Zand, PhD  
Research Interests: Autism, resilience, child and adolescent mental health, Community Research  
Graduate School: University of Missouri – Saint Louis (Clinical Psychology, APA approved)  
Post-Doctoral Training/Supervision for Licensure: Missouri Institute of Mental Health  

Professional Staff

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mirza Waseem Baig, M.B.B.S.</td>
<td>Medical Research Assistant</td>
</tr>
<tr>
<td>Lynn Bock, M.S., CCC-SLP</td>
<td>Speech Pathologist</td>
</tr>
<tr>
<td>Amanda Davis</td>
<td>Clerical Coordinator</td>
</tr>
<tr>
<td>Jean Deasy</td>
<td>Education Coordinator</td>
</tr>
<tr>
<td>Patricia Deutsch, RN, BSN</td>
<td>Lead Clinical Nurse</td>
</tr>
<tr>
<td>Colleen Dolnick</td>
<td>Family Resource Specialist</td>
</tr>
<tr>
<td>Donna Gfeller, PhD</td>
<td>Director Psychology/Psychiatry</td>
</tr>
<tr>
<td>Eva Goss</td>
<td>Clerical Coordinator</td>
</tr>
<tr>
<td>Sarah Grafeman, PhD</td>
<td>Clinical Psychologist</td>
</tr>
<tr>
<td>Emily Korte-Stroff, OTR</td>
<td>Occupational Therapist</td>
</tr>
<tr>
<td>Elizabeth Miller, RN, BSN</td>
<td>Clinical Nurse</td>
</tr>
<tr>
<td>Dee Luna-Morales</td>
<td>Lead Office Coordinator</td>
</tr>
</tbody>
</table>

Research Highlights(s)

Barbara Braddock, PhD, CCC-SLP
Dr. Braddock is part of a faculty and staff research group piloting research in the area of interdisciplinary treatment programming for children with autism (Move to Communicate). She is also involved in pilot research in augmentative and alternative communication use in autism.

Rolanda Maxim, MD
Dr. Maxim is involved in multiple research projects in the field of autism. She is the PI in an ongoing research project on early signs for autism in siblings of children with autism aiming to identify the early clinical signs and genetic markers for ASD. Dr. Maxim has presented posters at IMFAR (International Meeting For Autism Research) as is in the process of submitting a paper on the perinatal risk factors for ASD. We are currently performing a retrospective analysis of the data collected from the dog intervention program using therapy dogs in collaboration with the Canine Helpers Allow More Possibilities (C.H.A.M.P.) organization. Dr. Maxim had multiple abstracts, posters and oral research presentations including a few publications. She published two papers on the incidence of ophthalmic disorders in children with ASD, and the psychoeducational characteristics of children with hypohidrotic ectodermal dysplasia.

Kimberly A. Twyman, MD
Dr. Twyman’s research interests include developmental outcomes of prematurity, bullying and ostracism. She and Dr. Braddock are involved in research to examine PEERS social skills treatment and its impact on bullying, teasing, and ostracism in adolescents with ASD. She continues to collaborate with researchers at the Medical University of South Carolina and The Citadel on manuscripts related to bullying and ostracism research.
Debra Zand, PhD

Dr. Debra Zand’s [https://sites.google.com/a/slu.edu/debbiezand/] primary interests focus on processes that foster resilience in high risk youth and their families. Dr. Zand has over 20 years of experience conducting applied research on high-risk youth and their families, with a particular focus on children from birth to age 5. She has served as the principal investigator for multiple federally funded longitudinal projects. Her work has been published in peer reviewed journals, book chapters, and books. She has written multiple briefs on children’s mental health, with her research guiding children’s mental health policy within the State of Missouri. Presently, Dr. Zand serves as an Associate Editor for the Journal of Clinical Psychology in Medical Settings. She has presented her research at local, state, and national conferences, and is sought out by both lay and professional audiences for her expertise in developmental psychopathology.

Publications

10. Zand DH, Barnes, L, Baig MW, Teodorescu C, Maxim R. “Social competence in infants and toddlers with special health care needs: the roles of parental knowledge, attunement, expectations, and attitudes toward child independence.” Abstract/Poster accepted at Pediatric Science Day, St. Louis University School of Medicine, St. Louis, Missouri, April, 2012


14. **Zand D**. System of care pilot study. (Technical Report for the Missouri Department of Mental Health), Saint Louis University, St. Louis, MO, October, 2011

15. **Zand D** et al. Policy and practice: Medically fragile/developmentally delayed children from birth to three. (Technical Report for the Missouri Department of Mental Health), Saint Louis University, St. Louis, MO, October, 2011


**Editorial Activity**

**Maxim, R.**
Reviewer, Pediatrics, 2012
Editor, Missouri Autism Guidelines Initiative II (MAGI II)
SDBP Research team member: SDBP abstract/ books reviewer
Knights of Columbus Web Site: Frequently Asked Questions on Autism Spectrum Disorders

**Zand, D.**
Journal Reviews
*PsycCRITIQUES: Contemporary Psychology —APA Review of Books*
Journal of Deaf Studies and Deaf Education
Journal of Pediatrics
Language, Speech and Hearing Services in Schools
Associate Editor, Clinical Psychology in Medical Settings, 2012

**Honors**


**Zand, D**: Leadership Institute for Women in Psychology, American Psychological Association (09/2010-09/2011); Mentor Youth Alliance Scale (Zand et al., 2009) catalogued in the American Psychological Association’s PsycTESTS™ (2011)
**Presentations**


**Braddock BA.** “Communication ability in persons with Trisomy 18 and Trisomy 13.” Presentation at the 26th Annual SOFT International Conference, St. Louis, MO., July, 2012

**Braddock BA.** “Communication Profiles in Children with Autism Spectrum Disorders.” Presentation at the SSM Cardinal Glennon Autism Conference, Saint Louis University, St. Louis, MO., June, 2012


**Braddock BA, Bock, L, Korte-Stroff E.** “The effects of action + gesture on communication: A feasibility study in young children with ASD.” Pediatric Science Days, April, 2012

**Dolnick C, Braddock BA.** “PEERS: A parent-assisted social skills intervention for teens with high functioning autism.” Autism Intervention Conference, Thompson Center, University of Missouri-Columbia, April, 2012

**Maxim R.** "Missouri Guidelines for Screening, Diagnosis and Evidence-based Interventions for Autism Spectrum Disorders", Pediatrics on Demand on line lectures, Saint Louis University, Department of Pediatrics, St. Louis, MO April 2012.

**Maxim R.** “Update on MAGI Guidelines for Autism Spectrum Disorder”, Grand Rounds for Department of Neurology & Psychiatry, Saint Louis University, Department of Psychiatry, St. Louis, MO, April 2012

**Maxim R.** “Update on the Missouri Autism Guidelines Initiative”, Grand Rounds for Department of Psychiatry, BJC Behavior Health, St. Louis, MO, March 2012

**Maxim R.** “Developmental Psychological Disorders” as part of the Nervous System Module for medical students MSII at Saint Louis University, St. Louis Missouri, Ongoing

**Maxim R.** “Autism and Developmental Screening” for 2nd year medical students, Saint Louis University, September 2011 (Ongoing)

**Maxim R.** “Autism” for Physician Assistants students at Saint Louis University, St. Louis, Missouri, November, 2011 (Ongoing)

**Maxim R.** “Autism Spectrum Disorders” for St. Anthony’s CME Presentation, St. Anthony’s Medical Center, St. Louis, MO, October 2011

**Maxim R.** “Autism Spectrum Disorders” for medical students and resident trainees for the Developmental Pediatrics rotation, Saint Louis University, St. Louis, Missouri, 12/year 2011-2012

**Maxim R.** “The Child Who Does Not Talk” for medical students MS III & IV, Saint Louis University, St. Louis, Missouri, 6/year, 2011-2012 (Ongoing)

**Swidler P.** “The Genetics of Human Behavior”, Developmental Pediatrics Rotation, Saint Louis University, Monthly

**Swidler P.** Multiple case presentations at monthly clinical MicroArray meetings

**Swidler P.** “Sexual Differentiation”, Developmental Pediatrics Rotation, Saint Louis University, Monthly and Saint Louis University first year medical students Molecular Biology and Genetics

**Teodorescu C.** “Attention Deficit Hyperactivity Disorder; epidemiology, differential diagnosis, evaluation, prognosis”, Developmental Pediatrics Rotation, Saint Louis University, Monthly since February 2011 (Ongoing)

**Teodorescu C.** “Attention Deficit Hyperactivity Disorder, Psychopharmacology”, Developmental Pediatrics Rotation, Saint Louis University, Monthly since February 2011 (Ongoing)

**Twyman K.** Developmental Milestones Lecture, Developmental Pediatrics Rotation, Saint Louis University, Monthly

**Twyman K.** “Behavior Management in Children”, Developmental Pediatrics Rotation, Saint Louis University, Monthly

**Twyman K.** “Learning Disorders and Intellectual Disabilities”, Developmental Pediatrics Rotation, Saint Louis University, Monthly

**Twyman K.** “Developmental 101” 3rd Year Pediatric Clerkship Lecture Series, Saint Louis University, Bimonthly
Twyman KA. “Graphomotor and Fine Motor Problems: The role of the pediatrician, educator, and OT.” Panel Discussion for Developmental Pediatrics Focus Group, Washington University, April 2012
Twyman KA. “Community Advocacy through Resident Education Update, Pediatric Resident” Noon Conference, Saint Louis University, March 2012
Twyman KA. “Developmental Milestones Lecture” Developmental Pediatrics Rotation, Saint Louis University, Monthly from July 2009-present
Twyman KA. “Learning Disorders and Intellectual Disabilities”, Developmental Pediatrics Rotation, Saint Louis University, Monthly from August 2009-present
Twyman KA. “Developmental 101 Lecture” 3rd year Medical Student Pediatric Clerkship Rotation, Saint Louis University, Bimonthly from September 2009-present
Twyman KA. “Abnormal Development and Disorders” Autism Case Training, Introduction to Developmental Disability Medicine medical student rotation, Saint Louis University, October 2011
Twyman KA. Challenging Case Reviews, Meeting of the Southern Illinois Child and Family Connections Early Intervention Service Coordinators and Providers, Mt. Vernon IL, 12/19/11, 4/9/12; Carbondale, IL: 11/3/11, 5/2/12
Twyman KA. “What to look for, when to refer: Red flags, screening, and referral for children with autism spectrum disorders.” Knights of Columbus Developmental Center Autism Conference, St Louis, MO., June 2012
Twyman KA. “Bullying and Ostracism in Children and Adolescents” Psychiatry Grand Rounds, Saint Louis University, March 2012
Twyman KA. “Diagnostic Dilemmas in Autism” Child and Family Connections Provider Training Program, O’Fallon IL 1/18/12. Repeated at the Child and Family Connections Provider Training Program, Carbondale, IL 5/2/12.
Twyman KA. “Developmental Trajectories of Infants Born Preterm.” Southern Illinois Local Interagency Council Meeting, Norris City, IL, September 2011
Zand D. “Key Components of Psychological Evaluations for ASD Kids.” Knights of Columbus Annual Community Training Workshop. Cardinal Glennon Children’s Hospital, St. Louis, Missouri, June 2012
Zand D, Dolnick C, Deasy J, Barnes, L. “Asperger’s Syndrome.” Invited training, Provident Counseling, St. Louis, Missouri, May 2012
Zand D. “Caregiver Resilience.” Washington University, School of Social Work, St. Louis, MO., November 2011
Zand D. “Police and Practice with Medically Fragile Children From Birth to Three.” Missouri Medically Fragile Policy Committee, Jefferson City, MO., November 2011
Zand D. “Children with Special Health Care Needs: The Role of Caregiver Attachment in Mediating Developmental Outcomes.” Saint Louis University, School of Medicine, Department of Pediatrics, Research Colloquium,., St. Louis, MO., November 2011

**Grants**

R. Maxim, MD - PI  Learning the Early Signs for Autism Spectrum Disorders (ASD) through Video Clips. For Parents as Teachers National Center.  
$5,000  
2011 - 2012

R. Maxim, MD- PI  Identify Early Signs of ASD. 1st year research grant approved by IntegraGen  
$30,000  
2011 – 2013

R. Maxim, MD - PI  Missouri Autism Center at SSM Cardinal Glennon Children’s Medical Center. A multicenter clinical grant awarded by The Division of Mental Retardation and Developmental Disabilities  
2007 – Present  
$850,000/year
R. Maxim, MD – PI  
**Educational Grant in the Field of Autism Spectrum Disorders Multicenter Training**  
approved by The Division of Mental Retardation and Developmental Disabilities  
2007- Present  $103,000  

K.A. Twyman, MD  
**Developmental Pediatric Consultant, Southern Illinois Developmental Pediatrics**  
Technical Assistance Team, Child and Family Connections Early Intervention  
Program, Department of Human Services, State of Illinois.  

B.A. Braddock, BA – PI  
CVS Caremark Community Grants  
**Move to Communicate Autism Spectrum Disorders clinical research**  
SSM Cardinal Glennon Foundation  
$2000  3/2012  

B.A. Braddock, BA – PI  
Allan Love Charitable Foundation, St. Louis, MO  
**Move to Communicate Autism Spectrum Disorders clinical research**  
SSM Cardinal Glennon Foundation  
$10,000  1/2012  

B.A. Braddock (Consultant)  
Alzheimer’s Disease Supportive Services Program (ADSSP)  
**Connections Home Visitation Program for Adults with Dementia**  

D. Zand (Consultant)  
Maternal, Child and Family Health Coalition of St. Louis  
$9,000  04/2012 - 06/2012  

D. Zand (Consultant)  
**Policy and Practice with Children with Co-occurring Developmental Disabilities and Psychiatric Disorders**  
Missouri Department of Mental Health  
$3,000  12/2011 - 06/2012  

D. Zand, Ph.D.  
PI: L. Flick  
Co-PI of Statistics and methods: D. Zand  
**National Children’s Study (St. Louis, Macoupin County), NIH/NICHD, Total Funds $2 million**, 07/2011 –09/2012
**DIVISION OF EMERGENCY MEDICINE**

Annual Report 2011-2012

Introduction and Description

The Division of Pediatric Emergency Medicine has primary responsibility for the care of patients at Cardinal Glennon Children’s Medical Center (CGCMC) Emergency Department, a Level 1 Pediatric Trauma Center. In the past year, we project that over 47,000 children will have been seen in our Emergency Department, including approximately 400 requiring Trauma Activations. Approximately 12% of our visits result in 56% of the yearly admissions to the hospital, with over 400 requiring admission to the Pediatric Intensive Care Unit.

The PEM Division also coordinates and is responsible for medical control for all referrals that come through the Emergency Department as well as for all pediatric transports involving the CGCMC transport team and/or the Cardinal Glennon Access Center, which opened on October 1, 2009. Twenty four hours a day a member of the department is on site and available for assistance to both the Transport Team and the Access Center with reference to patient consultations for emergency care, discussion for the need to transfer, and needed transport team support. In addition, either a fellow or attending is available 24 hours day for the rare situations when a physician is required to accompany the transport team. John Peter, MD serves as the Medical Director for both the Transport Team and for the Access Center.

As an institution of medical education, CGCMC has numerous trainees of varying levels who receive training in our Emergency Department, including the following: 1) Fellows in Pediatric Emergency Medicine; 2) Saint Louis University Emergency Medicine, Pediatric, Combined Internal Medicine/Pediatric, and Family Medicine Residents; 3) Family Practice Residents from affiliated hospitals; and 4) Medical Students from Saint Louis University.

We are also proud to have offered over 20 years of PACTS/PALS courses to over 6800 physicians, nurses, EMT’s, paramedics, and respiratory therapists. We now have a WEB based PALS course, streamlining the on-site time commitment for this certification and thus allowing for a more efficient venue for the health care providers. Steve Laffey, MD, who is the Medical Director for Operations for the Emergency Department, serves as the Associate Medical Director of the PACTS/PALS program.

The division also has an active research program with a focus on the following areas: 1) Disaster Preparedness (Charney, Flood), Wound Management (Tredway, Nakanishi, Flood), Ultrasound Applications and Simulation Training (Gerard, Flood, Thomas, Germino, Braun), Subcutaneous Infusion Therapy (Nakanishi), Asthma (Peter, Krebs, Flood, Gerard), and Procedural Sedation (Gerard, Street).

With respect to community service, Dr. Doerhoff has contributed her personal time to volunteer overseas in Honduras, and Dr. Nakanashi has donated his personal time as a faculty volunteer to the Pediatric HRC Clinic in the City of Saint Louis.
Faculty Profiles

Hemina Bailey, MD, Assistant Clinical Professor, began November 15, 2011
**Educational Interests:** Resident and fellow education
**Board Certification:** Pediatrics
**Medical College:** Bangalore University, India
**Residency:** Mercy Hospital of Pittsburgh, PA

Rachel Charney, MD, Assistant Clinical Professor
**Educational Interests:** Disaster preparedness, resident and fellow education
**Research Interests:** Disaster preparedness
**Board Certification:** Pediatrics; Pediatric Emergency Medicine
**Medical College:** Northwestern University Medical School, Chicago, IL
**Residency:** St. Louis Children’s Hospital/Washington University, St. Louis, MO
**Fellowship:** Pediatric Emergency Medicine, St. Louis Children’s Hospital, Washington University School of Medicine, St. Louis, MO

Ann D. DiMaio, MD, Associate Clinical Professor, Child Protection Team, Part-time in Pediatric ED
**Educational Interests:** Child Protection
**Board Certification:** Pediatrics; Pediatric Emergency Medicine
**Medical College:** SUNY Health Sciences Center – Brooklyn, New York
**Residency:** New York Hospital – Cornell Medical Center
**Fellowship:** Child Protection – Saint Louis University School of Medicine/Cardinal Glennon Children’s Medical Center

Faye E. Doerhoff, MD, Associate Clinical Professor, Associate Director of Pediatric Residency Training Program
**Educational Interests:** Medical student, resident, fellow education, excellence in response for emergency care
**Board Certification:** Pediatrics; Pediatric Emergency Medicine
**Medical College:** University of Missouri School of Medicine
**Residency:** University of Missouri at Columbia Medical Center; University of Texas Medical Branch, Galveston, TX
**Chief Resident:** Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital

Robert G. Flood, MD, Associate Clinical Professor, Division Director
**Educational Interests:** Medical student, resident and fellow education
**Research Interests:** Care of simple lacerations in children, Disaster Preparedness, Simulation Training, Use of Ultrasound in Pediatric Emergency Medicine, Acute Asthma Care
**Board Certification:** Pediatric Emergency Medicine
**Medical College:** University of Miami
**Residency:** University of Miami/Jackson Memorial Hospital Combined Internal Medicine/Pediatrics
**Chief Resident:** University of Miami/Jackson Memorial Hospital Pediatrics Residency
**Fellowship:** Children’s Hospital of Boston Pediatric Emergency Medicine

James M. Gerard, MD, Associate Clinical Professor, Division Research Director
**Educational Interests:** Simulation training, PACTS/PALS
**Research Interests:** Simulation training, web-based PALS education
**Board Certification:** Pediatrics; Pediatric Emergency Medicine
**Medical College:** Saint Louis University School of Medicine
**Residency:** Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital
**Chief Resident:** Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital
**Fellowship:** Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital
Steven P. Laffey, MD, Associate Clinical Professor, Medical Director for Clinical Operations, Assistant Medical Director of PACTS/PALS Training Program

Education Interests: Pediatric advanced life & trauma education courses
Board Certification: Pediatrics; Pediatric Emergency Medicine
Medical College: Saint Louis University School of Medicine
Residency: Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital
Fellowship: Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital

Albert K. Nakanishi, MD, MPH, Associate Clinical Professor

Education Interests: Resident and fellow education, asthma care and intervention in the ED
Research Interests: Reactive airway disease in children, treatment of dehydration in children, treatment of simple lacerations in children
Board Certification: Pediatrics; Pediatric Emergency Medicine
Medical College: Northeastern Ohio Universities College of Medicine
Residency: Children’s Hospital of Akron, Ohio
MPH Program: Saint Louis University, School of Public Health

John R. Peter, MD, Clinical Professor, Vice President for Medical Affairs Cardinal Glennon Children’s Medical Center, Medical Director of Transport Team, Medical Director of the Cardinal Glennon Access Center, President of the Cardinal Glennon Medical Staff

Education Interests: Fellow education, transport efficiency & safety of pediatric patients
Research Interests: Treatment of soft tissue infections in children, Reactive Airway Disease
Board Certification: Pediatrics; Pediatric Emergency Medicine
Medical College: Southern Illinois University School of Medicine
Residency: Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital
Chief Resident: Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital
Fellowship: Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital

Teresa Schiff, MD, Assistant Clinical Professor

Board Certification: Pediatrics
Medical College: Autonomous University in Guadalajara, Jalisco, Mexico
Residency: St. Francis Medical Center/University of Illinois, Peoria, IL.

Trevor Tredway, MD, PhD, Assistant Clinical Professor, Pediatric Emergency Medicine Fellowship Director, Chair of the Cardinal Glennon Emergency Management Committee (EMC), and Chair of the Cardinal Glennon Pediatric PEER Review Committee.

Education Interests: Fellow education, PACTS/PALS, emergency management
Research Interests: Care of simple lacerations in children, cardiac troponin I in children with major trauma
Board Certification: Pediatrics; Pediatric Emergency Medicine
Medical College: Saint Louis University School of Medicine
Residency: Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital
Chief Resident: Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital
Fellowship: Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital
Fellows

**Kevin Germino, MD**, Third Year Fellow (completed June 30, 2012)
*Educational Interests:* Medical Student, resident and fellow education  
*Research Interests:* Ultrasound Use in the Pediatric Emergency Department  
*Board Certification:* Pediatrics  
*Medical Education:* Northwestern University-Feinberg School of Medicine  
*Residency:* Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital

**Scott Thomas, MD**, Third Year Fellow (completed June 30, 2012)
*Educational Interests:* Disaster preparedness, resident and fellow education  
*Research Interests:* Ultrasound and Simulation Training, Pain Management  
*Board Certification:* Pediatrics  
*Medical Education:* Saint Louis University School of Medicine  
*Residency:* Saint Louis University School of Medicine Combined Internal Medicine/Pediatrics  
*Chief Resident:* Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital

**Megan Street, MD**, Second Year Fellow
*Educational Interests:* Medical student and resident education  
*Research Interests:* Disaster preparedness training in Pediatric Residents, Procedural Sedation  
*Board Certification:* Pediatrics  
*Medical Education:* University of Texas Health Science Center, San Antonio, TX  
*Residency:* Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital

**Colleen Braun, DO**, Second Year Fellow
*Educational Interests:* Medical student and resident education  
*Research Interests:* Simulation Training  
*Board Certification:* Pediatrics  
*Medical Education:* Saint Louis University School of Medicine  
*Residency:* Saint Louis University School of Medicine/Cardinal Glennon Children’s Hospital

**Kristen Covert, MD**, First Year Fellow
*Educational Interests:* Medical student and resident education  
*Research Interests:* Injury Prevention  
*Board Certification:* Pediatrics  
*Medical Education:* Saint Louis University School of Medicine  
*Residency:* Phoenix Children’s Hospital, AZ

**Vivian Nwosu, MD**, First Year Fellow
*Educational Interests:* Medical student and resident education  
*Research Interests:* Asthma  
*Board Certification:* Pediatrics  
*Medical Education:* University of Medicine and Dentistry of New Jersey/R.W. Johnson Medical School, NJ  
*Residency:* Children’s National Medical Center, Washington, DC
Staff

**Danette Kurtzborn**, PEM Fellowship Program Coordinator, Administrative Assistant

Research Highlights

- **Publications:**
  


  Kinder KL, Lehman-Huskamp KL, **Gerard JM**. Do children with high body mass indices have a higher incidence of emesis when undergoing ketamine sedation? Accepted by Pediatr Emerg Care January 27, 2012. Publication pending.


- **Presentations:**
  
  **Charney R**, Rebmann T, Esguerra C, Lai C, Dalawari P. Expected Hospital Utilization for Medical and Non-Medical Services During Disasters. Platform Presentation. 6th Annual Pediatric Science Days, Saint Louis University. St. Louis, April 2012.


-Grant Applications:

**Gerard JM, Scalzo AJ. Preproposal for project "A High-Fidelity Virtual Pediatric Advanced Life Support Simulator (VPS)" submitted on 9/23/11 in response to Department of Defense Broad Agency Announcement BAA 11-1.** Project seeks $886,601 over 2 years to develop a virtual pediatric simulator to improve training of military medical personnel in the cognitive components of pediatric emergency medicine scenarios (i.e. respiratory failure, septic shock, etc.).

ONR released FOA earlier this month which is a good fit for our proposal. Discussions with TATRC and BreakAway, Ltd. ensued. We will be submitting a white paper in response to this FOA. Deadline for white paper is 8/31/12.

-Active Studies:

1. **Asthmatic Compliance with Flovent Prescribed in the ED**
   Status: Preparing IRB application
   Investigators: Nwosu/Gerard

2. **Cat Gut and Facial Lacerations**
   Status: Manuscript preparation
   Abstract presented at PAS/SPR May 2012
   Manuscript submitted to Pediatric Emergency Care July, 2012
   Investigators: Tredway/Flood

3. **Absorbable Sutures for Extremity Lacerations**
   Status: Manuscript Preparation
   Abstract presented at SAEM conference May 9-12, 2012
   Investigators: Nakanishi/Flood

4. **Validating the Society of Critical Care Medicine's Pediatric Fundamentals of Critical Care Support Through High-Fidelity Simulation**
   Status: Manuscript preparation
   Investigators: Bruzzi

   Status: Manuscript Preparation
   Abstract submission for IMSS 2013 Conference
   Investigators: Thomas/Gerard/Flood
6. **Pediatric Resident’s Current Level of Disaster Training**
   Status: Active enrollment, 38 responses to date

7. **INSPIRE LPS Study:**
   1) JITT study:
      Status: Year 3 of study underway
      Abstract presented at AAP fall meeting
      Abstracts presented at IMSH meeting in January
      Manuscript for year 2 of study submitted to Pediatrics
   2) Scoring tool validation study:
      Status: Abstract presented at IPSSW fall conference
      1st phase – Manuscript revisions completed, re-submitted to Simulation in Healthcare 6/1/12,
      2nd phase – IRB submission

8. **SSM Employee Disaster Survey**
   Status: Data analysis and manuscript preparation

9. **Family Care Disaster Survey**
   Status: Manuscript Preparation;
      Abstract presented at ACEP fall meeting

10. **Abscess Study**
    Status: Study in development, multi-centered
      Myto Duong PI; revisions in study design have been made waiting to hear on grant funding

11. **Migraine Study: IV Depakon vs. IV Compazine**
    Status: IRB submitted, awaiting approval.

12. **Bedside Diagnosis of Hand Vein Location**
    **By Ultrasound**
    Status: Active enrollment
      60 subjects enrolled

13. **Troponin and Trauma:**
    **Retrospective/Prospective**
    Status: Reviewing data
14. The INcrease Flow Utilizing Subcutaneous! Bruzzini/Nakanishi/Thomas
   Enabled Pediatric Rehydration (INFUSE) II Study:
   Subcutaneous Rehydration with Recombinant
   Human Hyaluronidase Compared to Intravenous
   Rehydration in Infants and Young Children with Mild
   to Moderate Dehydration”
   Status: Manuscript preparation

15. An Effective Dose of Ketamine in Obese and Street/Gerard
    Non-Obese Adolescent Patients Undergoing Procedural
    Sedation in a Pediatric ED
    Status: Active enrollment, 3 subjects enrolled to date

16. Comparison of Time to Pain Medication Administration Thomas/Flood
    Under 2 Different Triage Systems
    Status: Abstract, manuscript preparation

Honors and Other Academic Activities

Robert Flood, MD
Exceptional Employee Award, June 2012, Cardinal Glennon Children’s Medical Center

John Peter, MD
Best Doctors in Saint Louis 2011
DIVISION OF ENDOCRINOLOGY

Annual Report 2011-2012

Introduction and Description

The Division of Endocrinology in the Department of Pediatrics is dedicated to improving the health of children through clinical care, teaching, and research. The faculty in the Division includes five pediatric endocrinologists; in addition, two pediatric nurse practitioners, one of whom is also a Certified Diabetes Educator, provide care for children with endocrine disorders. One clinical nurse performs specialized endocrine function testing, provides education in endocrine disorders, and coordinates the large post-marketing surveillance programs of growth hormone therapy for the Division. Three clinical nurses and an APN clinical nurse specialist (3.1 FTE), two of whom are Certified Diabetes Educators, provide in- and out-patient diabetes education, instruct patients in intensive insulin regimens including CSII, and maintain a high level of in-patient diabetic care through education of the hospital nursing staff. In addition, a dietitian, a social worker, and a child psychologist are available to offer nutritional guidance and psychosocial evaluation and advice.

Clinical care for infants, children, and adolescents with growth disorders, complex endocrine system disorders, diabetes, and metabolic bone disease is comprehensive and state-of-the-art. The Division is an official referral center for the newborn screening programs for the states of Missouri and Illinois. In calendar year 2011, 6340 new and return out-patient visits were made to the Division’s clinics in the Ambulatory Care Center at Cardinal Glennon Children’s Medical Center (CGCMC) and in the South County, Anderson Hospital, St. Joseph Medical Park, and St. Luke’s Hospital Glennon Care facilities, an increase of 5.2%; in addition, 374 visits were made to the outreach clinics at SEMO Hospital in Cape Girardeau, MO. The Weight Management Program at CGCMC is directed by a member of the Division. One faculty member is responsible for patient care on the in-patient service. Most newly-diagnosed diabetic children are hospitalized for a brief period to initiate therapy and education. Consultations to assess and assist in the management of complex in-patients are also provided, as requested by other services.

The teaching programs of the Division of Pediatric Endocrinology are closely intertwined with both the Department of Pediatrics and the Division of Endocrinology in the Department of Internal Medicine. In addition to departmental conferences, including Grand Rounds, Division faculty give a lecture monthly in the Core Curriculum lecture series for residents and a lecture every 8 weeks for third-year medical students. Popular electives are offered to residents and fourth-year medical students, and third- and fourth-year medical students are supervised in the out-patient clinics. Finally, the Division assists in the training of fellows from the Division of Endocrinology in the Department of Internal Medicine by its supervision of fellows in a one-month rotation and its participation in a combined case conference.

Members of the Division of Pediatric Endocrinology have participated in clinical trials of growth hormone (GH) therapy for many years. In addition, Division faculty members have participated in industry-sponsored trials investigating drugs for type 2 diabetes in children and are currently participating in the NIH-funded, multi-center TODAY (Treatment Options for type 2 Diabetes in Adolescents and Youth) Study. Recently, in response to the growing epidemic of childhood obesity, studies of rapid infant growth and an initiative to create a school-based wellness policy to improve nutrition, increase physical activity, and prevent tobacco usage among students in the Jennings Public School District have been undertaken.

47
FACULTY PROFILES

David P. Dempsher, MD, PhD, Associate Professor
Special Interests: Disorders of growth and puberty, genital ambiguity, diabetes
Board Certifications: Pediatrics; Pediatric Endocrinology
Medical College: Johns Hopkins University School of Medicine, Baltimore, MD
Residency: Vanderbilt University Hospital, Nashville, TN
Fellowship: Fellow in Pediatric Endocrinology and Metabolism, St. Louis Children’s Hospital, Washington University School of Medicine, St. Louis, MO

Mark C. Eddy, MD, Associate Professor
Special Interests: Metabolic bone disease
Board Certifications: Pediatrics
Medical College: University of Missouri–Columbia School of Medicine, Columbia, MO
Residency: Children’s Mercy Hospital, University of Missouri–Kansas City School of Medicine, Kansas City, MO
Fellowship: Fellow in Pediatric Endocrinology and Metabolism, St. Louis Children’s Hospital, Washington University School of Medicine, St. Louis, MO

Nadim Kanafani, MD, Assistant Professor
Special Interests: Obesity
Board Certifications: Pediatrics
Medical College: University of Missouri–Columbia School of Medicine, Columbia, MO
Residency: St. Louis Children’s Hospital, Washington University School of Medicine
Fellowship: Fellow in Pediatric Endocrinology and Metabolism, St. Louis Children’s Hospital, Washington University School of Medicine, St. Louis, MO

Susan E. Myers, MD, Professor
Special Interests: Disorders of growth and puberty, Prader-Willi syndrome, thyroid disorders, diabetes
Board Certifications: Pediatrics; Pediatric Endocrinology
Medical College: University of Cincinnati School of Medicine, Cincinnati, OH
Residency: Children's Hospital Medical Center, University of Cincinnati School of Medicine
Fellowship: Clinical Fellow in Pediatric Endocrinology, Duke University Medical Center, Durham, NC
Fellow in Pediatric Endocrinology, University of Cincinnati School of Medicine, Cincinnati, OH

Sherida E. Tollefsen, MD, Professor and Division Director
Special Interests: Disorders of growth and puberty, thyroid disorders, congenital adrenal hyperplasia, diabetes
Board Certifications: Pediatrics; Pediatric Endocrinology
Medical College: Washington University School of Medicine, St. Louis, MO
Residency: St. Louis Children’s Hospital, Washington University School of Medicine
University of Colorado Affiliated Hospitals
Fellowship: Clinical Fellow in Pediatric Endocrinology, University of Colorado School of Medicine, Denver, CO
Pediatric Endocrinology and Metabolism, Washington University School of Medicine, St. Louis, MO
RESEARCH HIGHLIGHTS

Dr. Sherida E. Tollefsen is the principal investigator and Dr. David P. Dempsher is the co-investigator of the Saint Louis University site of a large multi-center study entitled “Treatment Options for type 2 Diabetes in Adolescents and Youth (TODAY)”, which is funded by the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) of the National Institutes of Health. The research protocol was designed to evaluate the efficacy of three treatment regimens (metformin alone, metformin plus rosiglitazone, and metformin plus intensive lifestyle intervention) on time to treatment failure based on glycemic control. Secondary aims are as follows: to compare and evaluate the safety of the three treatment regimens; to compare the effects of the three treatments on the pathophysiology of type 2 diabetes; to evaluate the influence of individual and family behaviors on treatment response; and to compare the relative cost effectiveness of the three treatment regimens. Nationwide, 699 subjects were randomized into one of the treatment regimens and were treated for at least two years. At the SLU site, 54 subjects were screened, 48 subjects proceeded to run-in, 39 subjects were randomized, and 36 subjects have been retained to date. The primary outcome of this study was published in the New England Journal of Medicine on June 14, 2012, and Dr. Tollefsen was a member of the writing group. Of the 699 randomly-assigned participants (mean duration of diagnosed type 2 diabetes, 7.8 months), 319 (45.6%) reached the primary outcome over an average follow-up of 3.86 years. Rates of failure were 51.7%, 38.6%, and 46.6% for metformin alone, metformin plus rosiglitazone, and metformin plus lifestyle intervention, respectively. Metformin plus rosiglitazone was superior to metformin alone (P = 0.006); metformin plus lifestyle intervention was intermediate but not significantly different from metformin alone or metformin plus rosiglitazone. Pre-specified analyses according to sex and race or ethnic group showed differences in sustained effectiveness, with metformin alone least effective in non-Hispanic black participants and metformin plus rosiglitazone most effective in girls. Serious adverse events were reported in 19.2% of participants. Dr. Tollefsen also participated in the writing group reporting depressive symptoms and quality of life in the TODAY Study cohort at baseline (Diabetes Care 2011; 34:2205-2207). Of the participants, 14.8% reported clinically significant depressive symptoms, and older girls had significantly higher rates than older boys. The SLU site is also participating in Genetics 2500, an ancillary study under the TODAY protocol. Genetics 2500 is collecting blood and phenotypic information on patients diagnosed with type 2 diabetes prior to their 18th birthday in order to explore relationships between candidate genes and type 2 diabetes, as well as obesity, insulin resistance, and cardiovascular complications of insulin resistance.

Dr. Susan E. Myers in the Division of Pediatric Endocrinology, Dr. Barbara Whitman, and their collaborators continue to contribute significantly to our understanding of children and adults with Prader-Willi syndrome (PWS). Recently, funded by the Prader-Willi Syndrome Association – USA, Drs. Myers, Whitman, Jeffrey Teckman, and Yie-Hwa Chang have begun investigating abnormal proteins that drive the hyperphagia in PWS.

Dr. Nadim Kanafani has been funded by the Missouri Foundation for Health (with matching funds from Saint Louis University and CGCMC) for a project entitled “The Schools and Communities in Partnership Project (SCPP)”. This school-based health and wellness initiative is aimed at making policy and environmental changes to improve nutrition, increase physical activity, and implement strong tobacco prevention practices for students in the Jennings Public School District.
PUBLICATIONS


As members of the TODAY Study Group, SE Tollefsen and DP Dempsher were cited in the following publications:


HONORS AND OTHER ACADEMIC ACTIVITIES

David P. Dempsher, MD
Selection to *The Best Doctors in St. Louis* 2011

Susan E. Myers, MD
Member of the Scientific Advisory Board, National Prader-Willi Syndrome Association, reviewer for 3 grant applications
Member of the Pediatric Endocrine Society Membership and Drug and Therapeutics committees
Manuscript reviewer

Sherida E. Tollefsen, MD
Selection to *The Best Doctors in St. Louis* 2011
TODAY Study activities: member of the Steering Committee, chair of the Laboratory Monitoring Committee, member of several writing groups
Invited reviewer for the NIDDK-funded Glycemia Reduction Approaches in Diabetes: A Comparative Effectiveness Study (GRADE) – primary reviewer for 8 applications and secondary reviewer for 7 applications
Manuscript reviewer
PRESENTATIONS

Wooldridge J, Elfenbein DS, Kanafani N: "Motivational Interviewing: How to work with the “difficult” patient” Grand Rounds, Department of Pediatrics, CGCMC. St. Louis, MO, 10/19/11.

Kanafani N, Guild C, Reinhold D, Mettler K, Halloran D: "Obesity and Elevated Blood Pressure in African-American School Children” Sixth Annual Pediatric Science Days, Department of Pediatrics, Saint Louis University. St. Louis, MO, 4/19/12.

Myers SE: "Type 1 Diabetes Update” CME talk at SEMO Hospital. Cape Girardeau, MO, 6/21/12.


In addition to monthly resident Core Curriculum lectures and the second- and third-year medical student lectures, Division faculty members have given the following presentations at the combined case conference with the Division of Endocrinology in the Department of Internal Medicine:

Myers SE: Growth Disorders (7/26/11)
Dempsher DP: Pubertal Disorders (8/30/11)
Kanafani N: RAI Therapy for Graves’ Disease in Children (9/27/11)
Dempsher DP: Myelodysplasia and Delayed Puberty (10/25/11)
Eddy MC: Side Effects of Anti-thyroid Drugs (11/29/11)
Myers SE: Complications of Thyroidectomy (1/31/12)
Tollefsen SE: Array-CGH and Potocki-Lupski (17p11.2 microdeletion) Syndrome (2/28/12)
Kanafani N: Hyperprolactinemia (4/24/12)
Eddy MC: Vitamin D Absorption in Alagille Syndrome (5/29/12)

GRANTS/CONTRACTS (with direct costs noted)

- Continuing
  Lilly Research Laboratories
D. P. Dempsher, PI
Safety and Efficacy of Exenatide as Monotherapy and Adjunctive Therapy to Oral Antidiabetic Agents in Adolescents with Type 2 Diabetes
$62,891  5/9/08–10/14/11

National Children’s Study
N. Kanafani
Ulnar Length Formative Study: Ulna Length and Other Surrogate Measures to Estimate Total Body Height (or Length) and Weight
$48,223  10/1/10–10/31/11
Missouri Foundation for Health (with matching funds from Saint Louis University and CGCMC)
N. Kanafani, PI  
SCIPP: The Schools and Communities in Partnership Project
$314,350  3/1/11–5/31/12
$295,286  6/1/12–5/31/13

Foundation for Prader-Willi Research, Prader-Willi Syndrome Association - USA
S. E. Myers, co-investigator, with B. Whitman, J. Teckman, and Y. Chang
Abnormal Proteins Drive the Hyperphagia in Prader-Willi Syndrome
$50,000  1/1/11–4/30/12

S.E. Myers, PI
The Effect of Growth Hormone Replacement on Physical and Behavioral Sexual Development in Persons with Prader-Willi Syndrome
$100,000  10/1/07–9/30/12

National Institutes of Health (NIDDK)
S.E. Tollefsen, PI, Saint Louis University site
Treatment Options for type 2 Diabetes in Adolescents and Youth (TODAY)
$1,572,232  3/1/03–2/28/09
($1,291,258 spent)
3/1/09–2/28/14 extension
$246,881  3/1/09–2/28/10
$258,792  3/1/10–2/28/11
$233,839  3/1/11–2/29/12
$255,750  3/1/12–2/28/13
ARRA funds – to perform echocardiography studies on TODAY Study subjects
$24,329  4/15/10–8/31/11 (extended)

Genetics 2500 Study  $13,365  3/1/09–2/28/13(to date)

S. E. Tollefsen is the PI, Saint Louis University, of the following contracts:

Genentech
National Collaborative Growth Study: Post-Marketing Surveillance Program

Pharmacia and Upjohn/Pfizer
KABI International Growth Study: Post-Marketing Surveillance Program

Lilly Research Laboratories
The Genetics and Neuroendocrinology of Short Stature International Study

Novo Nordisk, Inc.
ANSWER Program Registry
Annual Report 2011-2012

Introduction and Description

The Division of Pediatric Gastroenterology and Hepatology cares for infants, children, and adolescents with a variety of gastrointestinal and liver diseases, has active research programs in several diverse areas and participates regularly in medical education at the medical student and resident levels. The range of the division’s clinical activities is very broad. The division sees a large number of patients with chronic, life-altering and life-threatening disease, which involves complex diagnostic work-ups, as well as long term management. However, many of our patients are generally healthy but are burdened with gastroesophageal reflux disease, chronic abdominal pain, irritable bowel syndrome, chronic constipation, or other conditions which significantly disrupt their normal developmental patterns, families and school functioning. Specifically, the pediatric GI Division follows more than 150 patients with Crohn’s disease and ulcerative colitis, as well as many patients with chronic liver dysfunction and metabolic diseases. The Division has an active service caring for infants and children with short bowel syndrome, many of whom are supported with home administration of long term total parenteral nutrition and some of whom have had small bowel and liver transplants. The staff of the GI Division reviews on a weekly basis all inpatients at Cardinal Glennon Children’s Medical Center who are supported on parenteral nutrition.

Our division has a very successful liver transplant program for infants and children with chronic liver disease as well as for the treatment of acute fulminant liver failure. We have performed more than 75 liver transplants at CGMC over the past 20 years. Our outcomes are at, or above, national benchmarks.

The GI service also provides consultations on the care of children with nutritional disorders, or other chronic, non-gastrointestinal diseases which impact on the child’s feeding, nutrition, growth, or causes symptoms involving the GI tract. This includes advising on the placement and long-term management of feeding tubes and the analysis of specialized diets. Ongoing clinical connections are maintained between the GI service and the CF clinic regarding nutrition, GI function and liver disease management. The GI service commonly interacts with the allergy service on the evaluation and management of food allergies and eosinophilic GI disease, the pulmonary service regarding the contribution of GERD to asthma and respiratory disease, and with neonatology on issues including infantile feeding, liver dysfunction, and GERD.

The feeding team at Cardinal Glennon is an interdisciplinary group dedicated to the evaluation and treatment of infants and children with medical and psychological feeding and nutritional difficulties, and which interacts heavily with the GI service. The Pediatric Weight Management Program, a novel multidisciplinary approach to the treatment of overweight children and adolescents, is also partly supported by GI staff. The program is frequently featured in local and national media reports on the epidemic of pediatric obesity.

Our clinical services have grown steadily over the last 7 years, and we now hold a 48% market share of pediatric GI services in the Greater St. Louis region. This is the largest market share in the region for our subspecialty, and one of the largest market shares of any service line within SLUCare. These clinical services total nearly 6,000 outpatient visits per year, approximately 3000 inpatient hospital days per year, and over 1,300 endoscopic procedures per year. Our outpatient services are delivered at a variety of sites including Cardinal Glennon’s Ambulatory Care Center, St. Anthony’s Medical Center in South St. Louis County, St. Joseph’s Medical Park in St. Charles County, and St. Luke’s Hospital in Chesterfield, MO.
Faculty Profiles

Ajay Jain, MD, Assistant Professor of Pediatrics
- **Interests:** Pediatric liver disease, general gastroenterology and nutrition research
- **Board Certification:** Pediatrics, Pediatric Gastroenterology and Nutrition
- **Medical College:** Maulana Azad Medical College
- **Residency:** Medical College of Georgia
- **Fellowship:** Texas Children’s Hospital, Baylor College of Medicine

Jose J. Derdoy, MD, Assistant Professor
- **Interests:** Hepatology and liver transplant
- **Board Certification:** Pediatrics; Pediatric Gastroenterology; Transplant Hepatology
- **Medical College:** Facultad de Medicina, Universidad Nacional de Buenos Aires, Argentina
- **Residency:** Monmouth Medical Center, Long Branch, New Jersey
- **Fellowship:** Children's Hospital Los Angeles, Los Angeles, California

Thomas M. Foy, MD, Professor
- **Interests:** Nutrition/short bowel syndrome
- **Board Certification:** Pediatric Gastroenterology and Nutrition
- **Medical College:** Vanderbilt University
- **Residency:** Strong Memorial Hospital, Rochester, New York
- **Fellowship:** Baylor College of Medicine

Jerry Rosenblum, MD, MPH, MBA, Professor of Pediatrics
- **Interests:** General gastroenterology and inflammatory bowel disease.
- **Board Certification:** Pediatrics, Pediatric Gastroenterology
- **Medical College:** Washington University School of Medicine
- **Residency:** St Louis Children’s Hospital
- **Fellowship:** St Louis Children’s Hospital, Washington University School of Medicine
- **MPH:** MPH in Maternal and Child Health, University of California, Berkeley

Jeffrey H. Teckman, MD, Professor of Pediatrics and Biochemistry and Molecular Biology, Director
- **Interests:** Pediatric liver disease, general gastroenterology and liver research
- **Board Certification:** Pediatrics, Pediatric Gastroenterology
- **Medical College:** Washington University School of Medicine
- **Residency:** St. Louis Children’s Hospital
- **Fellowship:** Washington University School of Medicine

Saint Louis University Staff Clinical Providers
- **Laura Hotle, RN, CPNP:** Functions as a provider, with five outpatient clinic sessions weekly, which includes new patients and follow up appointments. She also functions as our inflammatory bowel disease patient coordinator.
- **Kathleen Spranitis, RN, CPNP:** Functions as a provider, with six outpatient clinic sessions weekly, which includes new patients and follow up appointments.

Clinic Support
- **Lisa Cayse, RN, Clinical Nurse**
- **Kim Killebrew, RN, Clinical Nurse**
- **Susan Travaglini, RN, Clinical Nurse**
Research

**Dr. Ajay Jain** has published several basic science research papers on TPN related liver injury during his fellowship training and with the help of Dr. Teckman’s laboratory and support of the Department of Pediatrics, he is continuing this work. He recently published a new paper on the role of enteral bile acids in ameliorating TPN induced liver injury and gut atrophy. He is also part of a multi-center NIH funded research study of fatty liver disease. He is the Principle Investigator for our site (one of 8 centers nationally).

**Dr. Jeffrey Teckman** has an ongoing, funded basic science research program in liver injury using the genetic disease, alpha-1-antitrypsin deficiency as the primary model system. Dr. Teckman has had 18 years of continuous research funding in this area and has been involved in basic science studies and human drug trials. Dr. Teckman is also the Principle Investigator for our site of an NIH funded, multi-center study (one of 15 centers nationally) in pediatric metabolic liver disease. Dr. Teckman is the Pediatric Center PI, with Dr. Adrian DiBisceglie as the SLU center PI, for the NIH sponsored study of hepatitis B infection. Cardinal Glennon is one of 7 pediatric centers nationally for this study. Dr. Teckman also participates in industry sponsored drug trials in hepatitis B and is the National PI for a newly funded, privately funded multi-center study of adult liver disease. Dr. Teckman collaborates with many other investigators, which routinely result in further publications, which are present include biochemical studies of liver injury, liver gene therapy projects and analysis of the hyperphagia of Prader-Willi Syndrome.

Publications


Milligan KL, **Jain AK**, Garrett JS, Knutsen AP. Gastric ulcer is a new presentation for varicella in common variable immunodeficiency. Pediatrics [in press].

**Jain AK**, Teckman JH. Alpha-1-Antitrypsin Deficiency Liver Disease and New Treatment Opportunities. Anti-inflammatory & Anti-Allergy Agents in Medicinal Chemistry. [In Press]


Jain A, Teckman JH. Alpha-1-Antitrypsin Deficiency Liver Disease and New Treatment Opportunities. Anti-inflammatory & Anti-Allergy Agents in Medicinal Chemistry (in press).

Honors and Other Academic Activities

**Ajay Jain, MD**
Nutritional Advisory Committee: Chairman, Nutritional Advisory Committee, Cardinal Glennon Children’s Medical Center (Jan 2011- Current)

Friends of the Saint Louis University Liver Center: ABC’s of Liver Disease: Panel Faculty (2010)

American Liver Foundation Award: American Liver Foundation, Alexander M. White, III Memorial Postdoctoral Research Fellowship Award.

Committee Membership:
- Nutritional Advisory Committee: Chairman, Nutritional Advisory Committee, Cardinal Glennon Children’s Medical Center
- North American Society of Pediatric Gastroenterology, Hepatology and Nutrition
- American Gastroenterology Association;
- American Academy of Pediatrics;
- Indian Academy of Pediatrics
- Recognition for exceptional customer service at Cardinal Glennon Children’s Medical Center.

Journal Peer Reviewer: Gastroenterology, Gastrointestinal Endoscopy, Indian Pediatrics, American Journal of Gastroenterology

**Jose Derdoy, MD**

Committees
- Member, American Academy of Pediatrics, 1997-present
- Member, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition, 2000-present
- Member, American Gastroenterological Association, 2001-present
- Two recognitions for exceptional customer service from WCS program at Cardinal Glennon Children’s Medical Center.
Thomas Foy, MD

"Best Doctors in St Louis," 2011 and 2012
"Best Doctors in America” 2011

Committees
American Society for Parenteral and Enteral Nutrition
North American Society for Pediatric Gastroenterology and Nutrition
Present Chairman: Utilization Review Committee Cardinal Glennon Children’s Medical Center 2011

4th Degree Member, Knights of Columbus, Council 2117
Volunteer Attending, Saint Louis University Health Resources Center
Foster Parent, Good Shepherd Children and Family Services, St. Louis County Certification, 09-present

Jerry Rosenblum, MD

"Best Doctors in St Louis” 2011 and 2012
"Best Doctors in America” 2011

Member, American Gastrointestinal Association
Member, NASPGHAN
Volunteer, Joe’s Place, Home for homeless adolescent boys in Maplewood and Richmond Heights, MO
Fellow of the American Gastroenterological Association, 2006-Present

Jeffrey Teckman, MD

PhD Committee for candidate Pradipta Chakraborty, Department of Biochemistry and Molecular Biology, Saint Louis University.

“Best Doctors in St. Louis,” 2011
“Best Doctors in America” 2011

Coursemaster, 4th Year Student Elective in Pediatric Gastroenterology, Saint Louis University School of Medicine
Steering Committee, International Symposium on the Biology of Serpins, Chapel Hill, NC
Board of Directors, University Medical Group of Saint Louis University
Alpha-1 Foundation Educational Material Working Group
Board of Directors, Friends of the Saint Louis University Liver Center
Patient Education Speaker, Alpha-1 Association, Alpha-1 Foundation
Alpha-1 Foundation Grants Review Working Group
Speakers Bureau, American Liver Foundation
Saint Louis University Clinical Center Gastroenterologist, Cystic Fibrosis Center, Saint Louis University and Cardinal Glennon Children’s Medical Center.

Champion (Co-Chair), Department of Pediatrics Strategic Planning, Saint Louis University.
Team Leader, Research and Scholarship Team, Department of Pediatrics, Saint Louis University School of Medicine.
Associate Chair for Research, Department of Pediatrics, Saint Louis University School of Medicine.
Consultant to Isis Pharmaceuticals, Carlsbad, CA.
Consultant, Amicus Therapeutics, La Jolla, CA.
Consultant, Genzyme Corporation, Framingham, MA.

Committees
Alpha-1 Foundation Medical and Scientific Advisory Committee
Crohn’s and Colitis Foundation, Medical Advisory Committee
Chairman, ad hoc committee on Alpha-1 Adult Liver Disease, Alpha-1 Foundation
Writing Panel for Practice Guidelines for the Diagnosis and Treatment of Alpha-1-antitrypsin Deficiency.
Scientific Advisory Committee, The Alpha-1 Project venture capital initiative, Miami, FL.
Presentations/Lectures

Ajay Jain, MD
4/12  Grand rounds: Diagnosis and management of Gastroesophageal Reflux Disease in Pediatric Patients: Saint Louis University

12/11 Intro to Academics "Enteral Bile Acid Treatment Improves Parenteral Nutrition Related Liver Disease and Intestinal Mucosal Atrophy" –

9/11 Pediatric Research Colloquium: Enteral Bile Acid Treatment Improves Parenteral Nutrition Related Liver Disease and Intestinal Mucosal Atrophy: Saint Louis University

04/11 Pediatric Surgery Conference: Lower Gastrointestinal Bleed: Saint Louis University

01/11 Grand Rounds: Capsule Endoscopy in Pediatrics: Saint Louis University

01/11 Grand Rounds: Varicella Zoster induced gastric ulceration: Saint Louis University:


Jose Derdoy, MD
07/11 Jaundice, Fatty Liver and Pediatric Liver Transplantation, Southeast Missouri Hospital, CME Presentation, Cape Girardeau, Missouri

06/11 Liver Tests of Pediatric Case Studies, St Luke's Hospital, Chesterfield, Missouri

03/11 Cholestasis, Fatty Liver, and Pediatric Liver Transplantation, Hannibal Regional Hospital, Hannibal, MO

07/10 Jaundice, Fatty Liver and Pediatric Liver Transplantation, Southeast Missouri Hospital, CME Presentation, Cape Girardeau, MO

Thomas Foy, MD
03/10 “Short bowel syndrome,” Grand Rounds, St. Louis University Dept of Pediatrics

Jerry Rosenblum, MD
02/11 Pediatric GI Lecture to 2nd year Medical Students

Jeffrey Teckman, MD
03/12 SLUM lecture on pediatric abdominal pain.

01/12 Cardinal Glennon resident lecture on esophageal disease.

11/11 SLUM resident lecture on pediatric constipation.

06/12 Speaker: Research and Liver Disease. Annual Meeting of the Alpha-1 Association.


06/12 Speaker, Liver Disease, Alpha-1 National Education Conference, Seattle, WA.
Division Staff

Support of Crohns and Colitis Foundation pediatric summer camp
American Liver Foundation fund raising dinner
Operation Lift-off, travel experience for liver transplant patients

Grants

Jain, AK
NIH-1U01-DK61718-01, National Institute of Health – NASH CRN: The Nonalcoholic Steatohepatitis Clinical Research Network (NASH CRN) was formed to conduct multicenter studies on the etiology, contributing factors, natural history, and treatment of nonalcoholic steatohepatitis (NASH). Role: Principal Investigator, SLU, Pediatrics.

Saint Louis University: Enteral Bile Acids Positively Modulate TPN - Related Cholestasis and Gut Mucosal Atrophy: Potential Role of the FXR - FGF19 axis. Internal Funding, Role: Principal Investigator


NIH/NIDDK, National Institute of Health, National Institute of Diabetes and Digestive and Kidney Diseases - Longitudinal Study of Genetic Causes of Intrahepatic Cholestasis (LOGIC) Childhood Liver Disease Research and Education network (ChiLDREN). Role: Site Sub-Investigator

Derdoy, JJ
NIH/NIDDK U01-DK 61718-01
Jose J. Derdoy—Co-Investigator
Hyperinsulinemia and Hepatogenesis of NASH

Teckman, JH
NIH: Cholestatic Liver Disease in Children (CLIC) Research Consortium (renamed Childhood Liver Disease Research and Education Network) Teckman-Co-Investigator 04-05; Consultant 05; Center Principal Investigator 05-15. 7/1/07-6/30/15

NIH Hepatitis B Research Network NIH U01 DK082871 10/1/08-9/30/15
Adrian DiBisceglie-Principal Investigator
Jeffrey Teckman-Pediatric Center Principal Investigator

Mechanism of bile acid therapy for alpha 1 antitrypsin deficiency Alpha-1 Foundation (PI Teckman) 07/01/11 - 06/30/13 - $200,000.

Saint Louis University Liver Center Seed Grant. Mechanisms of Therapeutic Bile Acids. (Pl-Tbeckman). 7/1/11-6/31/12 - $50,000

Alnylum Pharmaceuticals, Research Contract. In vivo analysis of RNAi therapy. (Pl-Teckman). 2/1/11-6/31/12 - $100,000

Adult Liver Disease Genetic Linkage Study. Research Grant. Alpha-1 Foundation (Pl-Teckman) 8/1/12-7/31/17 - $1,200,000
Study of YV25718 in Hepatitis B. Roche-Genetech (PI-Teckman)  
1/1/12-12/31/13

Abnormal Proteins Drive the Hyperphagia in Prader-Willi Syndrome.  
Prader-Willi Foundation Research Grant (Whitman PI, Teckman Co-I, Chang Co-I). 1/1/11-12/31/11
Division of General Academic Pediatrics
and Section of Hospital Medicine

Annual Report 2011-2012

Introduction and Description

Mission Statement: Through quality patient care, innovative education, creative research, and vigorous advocacy, the Division of General Academic Pediatrics of the Saint Louis University School of Medicine partners with patients, parents and the community to assure that the physical, emotional, and spiritual needs of this and future generations of children will be met with competence, dignity, justice and compassion.

General Academic Pediatrics Division members provide a wide variety of medical services to patients at SSM Cardinal Glennon Children’s Medical Center. Danis Pediatrics is the primary care practice of the Department of Pediatrics, serving as the medical home for approximately 10,000 patients with 14,000 visits per year. The patients cared for at Danis Pediatrics often have more serious acute and chronic medical problems and more social/economic problems than patients in a typical pediatric practice. The General Academic Pediatrics faculties, including the Hospitalists in the Division, provide general pediatric attending inpatient coverage for the general pediatric inpatient teams.

The Medical Diagnostic Clinic, a consultation service for referring physicians, is offered by the General Academic Pediatrics Faculty. Division members have broad expertise, with special interest in failure to thrive, adoption medicine, community pediatrics, advocacy, urinary tract infections, voiding dysfunction, adolescent health care, sports medicine, the effect of media on children, health care needs of gay and lesbian youth, international child health, endocrinology, developmental delay, attention deficit hyperactivity disorder, newborn medicine, neurofibromatosis and care of the child with special health care needs.

Members of General Academic Pediatrics are recognized for their interest and expertise in the education of students at all levels of pediatric education: Physician Assistant students, medical students, residents (Pediatrics, Med-Peds, Family Medicine, and others), and community physicians. Dr. Jay Noffsinger has been awarded seven Golden Apple Awards by the graduating classes from the School of Medicine. Members of the Division have been recognized with teaching awards by the residents and medical students in pediatrics. Teaching is provided at Danis Pediatrics, on the general inpatient teams, in the newborn nursery at St. Mary’s Health Center, through formal and informal conferences for students and residents, and in specialty clinics staffed by General Academic Pediatrics faculty. Dr. Heidi Sallee is the Associate Chair for Education and the Pediatric Residency Program Director. Dr. Mark Eddy coordinates Continuing Medical Education for faculty and community physicians. Dr. Jay Noffsinger has served as the Associate Director for the Saint Louis University Sports Medicine Fellowship program and Director of Medical Student Education for the Department of Pediatrics. Advocacy for the needs of all children, but particularly for the underserved, is a major focus of the Division of General Academic Pediatrics. Dr. Ken Haller is Chairman of the Department of Pediatrics Advocacy Committee and Co-Director of the Department of Pediatrics Faculty Development Committee. Division members serve on various community boards and committees, including Health and Dental Care for Kids, the Missouri State Advisory Committee on Immunizations, and the Missouri State Drug Utilization Review Board. Division members provide committee service to the Department of Pediatrics, the School of Medicine and to Saint Louis University. Committees served on include the Pediatric House staff Advisory Committee, the Continuity Clinic Advisory Committee, Faculty Development, Pediatric Advocacy, and the Strategic Planning Committee for the Department of Pediatrics. SLU Committees include the Graduate Medical Education Committee, the Characteristics of Jesuit Education Task Force, the SLU President’s Diversity Council, the Admissions Committee and the Women in Medicine and Science Committee.
Cardinal Glenon Committees include the Medical Executive Committee, the Division and Department Directors Committee, Chief Medical Officer Group, the Pediatric Core Team, the Clinical Performance Improvement Committee, and the Medical Staff Quality Improvement Committee and the Electronic Medical Record Oversight Committee.

Additional teaching activities reach all levels of learner. Dr. Halloran is the Course Co-Director for ACS-1: Child and Adolescent Development and the Course Director for a new elective for first and second year medical students titled “Acting Like a Doctor.” He is the faculty advisor for the School of Medicine Pediatrics Interest Group, the SLU Rainbow Alliance and the Gay and Lesbian Association for Medical Students and the faculty advisor for the SLU School of Medicine Physicians for Human Rights group. Dr. Rashmi Narayan directs a model program for immersion of residents in the community, through the Community and Advocacy Resident Education Rotation. Dr. Heidi Sallee is involved with the School of Public Health developing an office-based child safety program. Dr. Jennifer Ladage offers International Adoption Medicine Consultation Services through the FACES Program. She is also a regular participant in medical mission trips to Malawi. Dr. Jay Noffsinger has served as the Assistant Medical Director for NCAA Division I National Hockey Championships, National Wrestling Championships and Regional and National Basketball Tournaments. Dr. Donna Halloran and Dr. Susan Heaney are in charge of the Evidence-Based Medicine program for residents. Dr. Halloran also co-directs the resident quality improvement and research projects. Dr. Elizabeth Sugarbaker is the Medical Director for Gateway Coalition of Reach Out and Read (ROR) and maintains training and ROR participation with approximately 35 medical practices within the Gateway Coalition. She is a member of the Neurofibromatosis Multidisciplinary Team. She serves the School of Medicine as a member of the Committee on Student Progress and Program Planning as well as the Medical School Admissions Committee. She is the medical advisor to the Outreach Foundation’s Nyeri Street Project and regularly participates in medical mission trips to Kenya.

General Academic Pediatric Faculty play key roles in both Saint Louis University Administration, as well as SSM Cardinal Glennon Children’s Medical Center Administration. Dr. Susan Heaney has served as Chief Medical Officer and Executive Director of Medical Affairs for Cardinal Glennon, was the Interim Director for Adolescent Medicine Division, served as Chair of the Faculty Affairs Committee of the Saint Louis University School of Medicine and is a Member of the Admissions Committee of the Saint Louis University School of Medicine. Dr. Heaney was appointed as Division Director of General Academic Pediatrics and Medical Director of the Danis Pediatrics clinic in August 2011. Dr. Chris Sallee serves as Director of the Hospitalist Section of the Division and the Medical Director for Informatics and the Medical Director of 2 and 3 South. In her role as the Associate Chair for Education, Dr. Heidi Sallee leads the Excellence in Pediatric Education Team, overseeing all medical education in pediatrics. Dr. LaBarge is the President – Elect of the Medical Staff of the Hospital and Chairs the GCMC Privileging and Credentialing Committee. He also serves on the Medical Executive Committee, the SSM-SL Network Privileging and Credentialing Advisory Committee and the Family Education Resource Committee and is a Board Member of Autism Speaks.

Dr. Donna Halloran is conducting studies related to infant outcomes using insurance claims data and birth certificate data and is networking with faculty from the SLU Center for Outcomes Research, the SLU School of Public Health, and the Washington University Clinical Research Training Center. She remains on a NIH K08 clinical scientist research career development award which will sponsor her research for another 3 years. As part of this award, she has begun coursework towards completion of a PhD in Outcomes Research through the SLU School of Public Health. She also continues working with Dr. Nadim Kanafani in the Division of Pediatric Endocrinology on primary data collection projects to evaluate the effects of obesity and rapid weight gain on infant health for which she secured funding through the President’s Research Fund. Finally, she has assisted both Dr. Matthew Broom and Dr. David Wathen in their pursuit of independently scholarly research (see below for a description of their activities).
Dr. Broom is the faculty advisor for the School of Medicine Military Medicine interest group and is a member of the Department of Pediatrics’ Junior Faculty Committee. He also is an active instructor for SSM Cardinal Glennon’s Pediatric Advanced Cardiorespiratory and Trauma Support for Life / Pediatric Advanced Life Support (PACTS/PALS) regional course. He is also developing a curriculum that looks to improve patient safety through resident education on medical communication and professionalism.

Faculty Profiles

Shahnaz Ahmad, MD, Adjunct Assistant Professor
Board Certification: Board Eligible
Medical College: Nishtar Medical College, Pakistan
Residency: Cardinal Glennon Children’s Hospital
Fellowship: Ambulatory Pediatrics, Cardinal Glennon Children’s Hospital

Elizabeth Babusis, MD, Adjunct Assistant Professor
Special Interests: Vaccine research and development, weight management, lipid disorders
Board Certification: Pediatrics; Board Eligible in Internal Medicine
Medical College: Saint Louis University
Residency: Saint Louis University Hospital and Cardinal Glennon Children’s Hospital

Matthew A. Broom, MD, Assistant Professor
Special Interests: Maternal depression screening, medical ethics, medical education, communication, professionalism and improving healthcare outcomes.
Board Certification: General Pediatrics
Medical College: Saint Louis University School of Medicine
Residency: Saint Louis University School of Medicine

Mark C. Eddy, MD, Associate Professor
Special Interest: Inherited disorders of bone and connective tissue
Board Certification: General Pediatrics
Board Eligible: Pediatric Endocrinology
Medical College: University of Missouri-Columbia School of Medicine
Residency: The Children’s Mercy Hospital, Kansas City, Missouri
Fellowship: Pediatric Endocrinology, Washington University School of Medicine-St. Louis

Kenneth A. Haller, MD, Associate Professor
Special Interests: Resident education in community settings, advocacy for underserved populations, public relations, effect of media on children, health care needs of gay and lesbian youth, health literacy
Board Certification: Pediatrics
Medical College: Creighton University School of Medicine
Residency: Lenox Hill Hospital
Fellowship: Winthrop University Hospital

Donna R. Halloran, MD, MSPH, Assistant Professor
Special Interests: Infant outcomes research
Board Certification: Pediatrics
Medical College: The University of Texas Health Science Center at San Antonio
Residency: Vanderbilt University
Fellowship: General Academic Pediatrics, University of Alabama-Birmingham
Masters Public Health: University of Alabama-Birmingham
M. Susan Heaney, MD, MPH, Professor
Special Interests: Adolescent health care in a primary care setting, failure to thrive, pediatric residency training in primary care, preventive pediatrics, immunizations, medical administration, mentoring
Board Certification: Pediatrics
Medical College: Creighton University School of Medicine
Residency: Cardinal Glennon Children's Hospital
Masters Public Health: Saint Louis University School of Public Health

Timothy Kutz, MD, Associate Professor
Special Interests: Child protection, head injury, forensic medicine
Board Certification: Pediatrics
Medical College: University of Missouri-Columbia
Residency: Loyola University Medical Center, Chicago
Fellowship: Child Protection, University of Colorado

Gene LaBarge, MD, Assistant Professor
Special Interests: Primary care, Continuity Clinic Curriculum, Ambulatory Care Curriculum
Board Certification: Pediatrics
Medical College: Saint Louis University
Residency: Cardinal Glennon Children's Medical Center

Jennifer S. Ladage, MD, Assistant Professor
Special Interest: Adoption medicine and International Health
Board Certification: Pediatrics
Medical College: Saint Louis University School of Medicine
Residency: Cardinal Glennon Children's Hospital

Rashmi Narayan, MD, Assistant Professor
Special Interest: Community Health
Board Certification: Pediatrics
Medical College: University of Rochester School of Medicine and Dentistry
Residency: University California Los Angeles

Shahida R. Naseer, MD, Associate Professor
Special Interests: Urinary tract infection, voiding dysfunction, nocturnal enuresis, breastfeeding, quality assurance
Board Certification: Pediatrics
Medical College: Dow Medical College, Karachi, Pakistan
Residency: Cardinal Glennon Children's Hospital

Jay E. Noffsinger, MD, Professor Emeritus
Special Interest: Sports medicine
Board Certifications: Pediatrics; Sports Medicine
Medical College: Indiana University School of Medicine
Residency: Naval Regional Medical Center, Oakland, California
Dennis O'Connor, MD, Professor of Pediatrics
Special Interests: Medical Education, Pediatric Palliative Care
Board Certification: Pediatrics, 1972
Pediatric hematology Oncology 1978
Medical College: Saint Louis University
Residency: Saint Louis University

Kevin Powell, MD, PhD, FAAP, Associate Professor of Pediatrics
Interests: Hospital Medicine, Medical Ethics
Board Certification: Pediatrics
Medical College: Tufts University
Residency: University of Wisconsin, Madison

Heidi M. Sallee, MD, Associate Professor
Special Interests: Educational innovation in primary care, patient/family education, residency education
Board Certification: Pediatrics
Medical College: Saint Louis University School of Medicine
Residency: Cardinal Glennon Children’s Hospital
Fellowship: Primary Care Faculty Development, Michigan State University

Chris Sallee, MD, Assistant Professor
Special Interests: Hospital Medicine, resident and student education, medical informatics, sedation
Board Certification: Pediatrics
Medical College: Saint Louis University School of Medicine
Residency: Cardinal Glennon Children’s Medical Center

Michelle Sineff, MD, Adjunct Instructor
Special Interests: Clinical care and education in primary care pediatrics
Board Certification: Board eligible
Medical College: Brown University School of Medicine
Residency: Lutheran General Children’s Hospital, Park Ridge, IL (PGY-1) and
Cardinal Glennon Children’s Hospital (PGY-2 and 3)

Elizabeth Sugarbaker, MD, Assistant Professor
Special Interests: International pediatric medicine, neurofibromatosis and doctor recommended child
literacy, care of the newborn
Board Certification: Pediatrics
Medical College: Saint Louis University School of Medicine
Residency: Cardinal Glennon Children’s Hospital

Timothy J. Warren, MD, Adjunct Assistant Professor
Special Interests: Primary care, private practice
Board Certification: Pediatrics
Medical College: Saint Louis University School of Medicine
Residency: Saint Louis University School of Medicine
Cardinal Glennon Children’s Medical Center
David Wathen, DO, Assistant Professor
Special Interests: Hospital Medicine, Medical Student and Resident Education, Quality Improvement and reducing waste in healthcare
Board Certification: Pediatrics 2009
Medical College: Kirksville College of Osteopathic Medicine
Residency: Saint Louis University, Cardinal Glennon Children’s Medical Center

Pediatric Nurse Practitioners

Ashley Borawski, PNP
BSN
Saint Louis University School of Nursing
Masters
University of Missouri

Elizabeth Rhyne, PNP
BSN
Saint Louis University School of Nursing
Masters
University of Missouri Saint Louis

Research Highlights

The Division of General Academic Pediatrics is involved in a broad array of research projects, collaborating with investigators from other divisions within the Department of Pediatrics, other disciplines within Saint Louis University, and with researchers from other institutions.

Matthew A. Broom, MD, has applied for funding ($461,403) via the Maternal Child and Family Health Coalition in order to improve the identification, evaluation, treatment and referral of St. Louis city mothers with postpartum depression.

Nurse Practitioners, Beth Rhyne and Ashley Borawski, are co-investigators for the Maternal Depression project. He has also applied for funding ($43,110) on a project with Donna Halloran, Nadim Kanafani (endocrinology) and Amy Ford (psychology) in collaboration with the SLU School of Public Health examining the use of text message communication as an adjunctive behavioral modification treatment among obese and overweight Black adolescent females. He is collaborating with faculty from the SLU Center for Healthcare Ethics on an online bioethics/professionalism curriculum for use among several SLU Graduate Medical Education programs.

Mark C. Eddy, MD, is a co-investigator on several studies related to the management of short stature with growth hormone, including small for gestational age children and growth hormone deficient children.

Donna R. Halloran, MD, MSPH, has a secondary appointment in the SLU Center for Outcomes Research to complete projects related to claims data from WellPoint, the largest private health insurer in the State of Missouri, and Medicaid. She is collaborating with faculty from SLUCOR, assessing perinatal outcomes using pharmacy and medical claims linked to birth certificates. She is also examining the effects of maternal obesity and post term deliveries on perinatal complications. She is working with a junior faculty member, Dr. Nadim Kanafani, to explore the predictors of infant obesity and has recruited 50 patients from the Danis Pediatrics clinic for a two year study.

M. Susan Heaney, MD has been the site investigator for the nationwide multistate American Academy of Pediatrics Bright Futures Preventive Services Improvement Project to examine and improve the primary care provided to children at the 9 month and 24 month visits. She is also the site investigator for another practice-based research project with CORNET (Continuity Research Network), “Adolescent Vaccination in the Medical Home – Implementation of Intervention Strategy.”
Dr. Heaney is also the pediatric member of the steering committee for the HRSA funded Academic Administrative Units in Primary Care Grant. The purpose of the proposed project, the Saint Louis University (SLU) Primary Care Training Center is to form a collaborative between Family Medicine, Internal Medicine and Pediatrics. The overarching goal of this collaboration is to increase the numbers of medical students and residents choosing primary care as their profession. This proposal has four primary objectives: a) development of a collaborative primary care program, b) development of a systematic approach to primary care scholarship and clinical research, c) development of the Patient Centered Medical Home (PCMH) as the clinical laboratory for the conduct of primary care scholarship and clinical research, and d) provide exposure to and evaluation of the inter-professional education model within primary care settings.

Shahida R. Naseer, MD, has been actively involved in a multicenter educational study, “Breast-feeding Promotion in Physician Office Practices: Phase III Residency Curriculum Pilot Study” and has collaborated with the SLU Department of Psychology in educational research related to screening for Intimate Partner and Teen Dating Violence Screening in the pediatric office setting.

Heidi M. Sallee, MD, has collaborated with the SLU Department of Psychology in educational research related to screening for Intimate Partner and Teen Dating Violence Screening in the pediatric office setting. In addition, she has participated with Dr. Heaney on a national (CDRNET) resident education in oral health research project. She is currently collaborating with faculty at the School of Public Health, developing and testing a child safety intervention.

Elizabeth Sugarbaker, MD and Shahida Naseer are cooperating with Knights of Columbus in clinical research evaluating early red flags for Autism Spectrum Disorders.

David Wathen, DO, has collaborated with Michelle Mitchell, MD, in investigating the role of blood culture and other ancillary testing use in the diagnosis of cellulitis.

Publications


Ladage J Co-authored two chapters.


Abstracts


Sandoz E, Guild C, Kanafani N, Halloran DR. Does the degree of postpartum depression correlate with fruit and vegetable intake in new moms? 2011 American Dietetic Association (Poster Presentation)


*Sandoz E, Guild C, Kanafani N, Halloran DR.* Does the degree of postpartum depression correlate with fruit and vegetable intake in new moms? 2011 American Dietetic Association (Poster Presentation)


Wathen D, “Blood cultures are of limited value in the management of cellulitis in the acute care setting,” Poster Presentation, Pediatric Academic Societies Meeting, Denver, Colorado 2011


Brown E, Howard S, Heaney MS: “Adolescent Immunization in the Medical Home,” Poster at Department of Pediatrics Grand Rounds and at First Annual Primary Research Symposium LRC School of Medicine, May 9th, 2012

Honors and Other Academic Activities

**Matthew Broom, MD**
Nominee for Best Faculty Teacher in General Pediatrics, Pediatric Residency Program 2011-12
Faculty Advisor, SLUSOM Military Medicine Interest Group
Pediatric Residency Program Continuity Clinic Preceptor (3 residents)
Member, Department of Pediatrics Junior Faculty Committee

**Mark Eddy, MD**
*Ad Hoc* Reviewer, Journal of Pediatrics
Appointed to Board of Directors, Missouri Chapter of the American Academy of Pediatrics, (3 year term), 2009

**Kenneth Haller, MD**
Course Co-Director, ACS-1: Child and Adolescent Development
Medical Editor, *Focus on Pediatrics*
Faculty Advisor:
  SLUSOM Pediatrics Interest Group
  SLU Rainbow Alliance
Committees:
  Chair, SLU Faculty Senate Affirmative Action and Diversity Committee
  Member, SLU Dept of Peds Advocacy Committee
  Co-Chair, SLU Dept of Peds Faculty Development Committee
Co-Champion, SLU Dept of Peds Strategic Planning Process
Chair, SLU Dept of Peds Strategic Planning Process Mission and Values Subcommittee
Member, SLUSOM Minority Diversity Task Force
Member, SLUSOM Associate Dean for Multicultural Affairs Search Committee
Member, Glennon Web CME Task Force
Member, UMG Physician Marketing Committee
Member, Continuity Clinic Task Force
Member, Housestaff Advisory Committee
Member, Glennon Legislative Advocacy Committee
Member, MO APP Membership Committee

Donna Halloran, MD
Senior author for paper awarded to Maternal-Fetal Medicine fellow: Society for Gynecological Investigation President’s Award, 2011

Journal Reviewer:
- Pediatric Academic Societies
- American Journal of Public Health
- Maternal and Child Health Journal
- Pediatric Academic Societies
- Journal of Pediatrics
- Journal of Perinatology
- Academic Pediatrics
- Pediatrics
- American Journal of Obstetrics and Gynecology
- Journal of Maternal-Fetal and Neonatal Medicine
- Obstetrics and Gynecology

Meeting Moderator: Pediatric Academic Societies

Grant Reviewer:
- APA Young Investigator Award Study Section
- AHRQ/HRSA Autism Intervention Network on Physical/Behavioral Health
- AHRQ/HRSA Primary Care Training and Enhancement Physician Faculty
- Development in Primary Care Program
- AHRQ Maternal and Child Health Bureau R40 Study Section

Birth Outcomes Research Network (BORN), Governance Committee, 2010 – Present
Council Member, Southern Society for Pediatric Research, 2012 – Present

M. Susan Heaney, MD
Best Doctors in America 2011
Recognition for Service as Vice President Medical Affairs and Chief Medical Officer, Cardinal Glennon Children’s Medical Center Annual Medical Staff Dinner, presented by Sherlyn Hailstone, President, December 9, 2011.
Nominated for Saint Louis University Women’s Commission Woman of the Year Award, March 2012

Jennifer Ladage, MD
Nominee for St. Luke’s, Patron of Physicians Award, Cardinal Glennon Children’s Medical Society, October 2011
Grant reviewer, President Research Fund, Saint Louis University, December 2011
Member, SLU Department of Pediatrics, Junior Faculty Committee
Member, Cardinal Glennon Children’s Medical Center, Continuity Task Force Committee
Conducted interviews for applicants to SLU Pediatric residency program, Nov - Jan 2010 and 2011
Co-director, SLU Department of Pediatrics Intern Retreat, October 2011

Jay Noffsinger, MD
Best Doctors in America / Best Doctors in St. Louis under General Pediatrics and Pediatric Subspecialty
Nominated for St. Lukes Faithful Healer Award, Cardinal Glennon Children’s Medical Center, 2010.
Medical volunteer for the VISA US National Gymnastics Championships in St Louis and the St Louis Classic
Gymnastics Meet, 2012

Kevin Powell, MD
Pediatric News Columnist, Pediatric News Advisory Board
Moderator for Listserv for AAP Section on Hospital Medicine

Heidi Sallee, MD
Certificate of Leadership from the Saint Louis University Women’s commission “in recognition of her outstanding
leadership contributions” at the 28th YWCA Leaders Lunch, December 2008
Expert Panel Participation, Residency Panel and Workshop, Saint Louis University School of Medicine, AMSA,
February 2009
Expert Panel Participation, Women in Medicine Panel, Saint Louis University School of Medicine, AMWA, April 2009
Residency Information Panel, Saint Louis University Pediatric Interest Group, April 2009
Expert Medical Reviewer: KidsHealth.org, August 2010-present
Reviewer: Abstracts for General Pediatrics and Preventive Pediatrics, Pediatric Academic Societies Annual Meeting,
2010, 2012

Ad hoc Reviewer:
Journal of Pediatrics

Committees:
Chair, Excellence in Pediatric Education Team, November 2011-present
Chair, Housestaff Advisory Committee, May 2007-present
Member, Graduate Medical Education Committee, July 2009-present
Member, Department of Pediatrics Mentoring Committee 2008-present
Member, Continuity Clinic Task Force, May 2007-present
Member, Medical Executive Committee (SSM CGCMC), Dec 2008—present
Member, Women in Medicine Task Force (SLU), January 2009—October 2009
Member, Strategic Planning Committee (SLU Dept of Peds), April 2009—present

Chris Sallee, MD
Resident Teaching Award 2011
Chair, Electronic Health Record Oversight Committee
Chair, RN/MD Communication Task Force

Elizabeth Sugarbaker, MD
Medical Director St. Mary’s Normal Newborn Nursery, Fall 2012
2011 Distinguished Teacher Award, Clinical Teaching, Saint Louis University School of Medicine
Advisor, Health Resource Center, medical student- run free clinic
Mentorship:
Continuity of care elective students 2009 – present
Faculty advisor to medical students and residents.
Presentations:


“Why can’t Johnny read?” St. Louis Post-Dispatch, August 2010.

Committees:

Dean’s Search Committee
Committee for Student Progress and Program Planning
Department of Pediatrics Faculty Development Committee
Interprofessional Curriculum
Interprofessional Student Seminar faculty facilitator (Medical Students, PA’s, Nursing, Pharmacy, PT, OT and Social Workers).

Member, Saint Louis University Medical School Admissions Committee, Sept 2010 – present.

Member, Strategic Planning Committee (Saint Louis University Department of Pediatrics), April 2009-September 2010.

David Wathen, DO
Ad Hoc Reviewer, Journal of Hospital Pediatrics
Abstract Review, Pediatric Academic Society
Awards:
Top Teacher Award for General Pediatrics, June 2012
SSMile Exceptional Service Award, January 2012, January 2011, December 2010

Mentorship:
3 Residents: 2009 – present

Education:
Development and Revision of Inpatient Pediatric Website that relays information on the field of Pediatric Hospital Medicine, current EBM, other topics of interest.

Revised the Goals and Objectives for the resident and intern Inpatient Pediatric Medicine Rotation

Inpatient Pediatric Hospital Medicine Education Liaison to the Residents

Committees:
Member, Procedural Pain and Sedation Committee, May 2012 – present
Member, Discharge Process Committee, SSM CGCMC, January 2012 - present
Member, Clinical Care Committee, SLU Pediatrics, October 2010 – Present
Member, Physician- Nurse Communication Committee, July 2010 - present

Presentations

Matthew Broom, MD
M. Susan Heaney, MD, MPH, Matthew Broom, MD, Donna Halloran, MD, MSPH, Heidi Sallee, MD. 1/4/12

Saint Louis University Pediatric Research Colloquium: “Text Messaging for Behavioral Change: RUUP4IT?” 5/22/12

Newborn Nursery Lectures

“Breastfeeding” 10/25/11, 11/14/11, 5/2/12

“Awareness and Update on GBS” 10/26/11, 5/4/12

“Neonatal Hyperbilirubinemia” 10/27/11

Saint Louis University Pediatric Resident Noon Conference

“Pediatric Immunization in 2011” 11/15/11

“Take Your Vitamins: Pediatric Alphabet Soup” 6/19/12
Saint Louis University Pediatric Resident Morning Conference
“Professionalism in Pediatrics: Facebook, the Z-Pak and Friends” 5/15/12

**Media**
SSM Cardinal Glennon Children’s Medical Center Facebook Web Report, “Depression affects many families, help is available,” 4/16/12


**Kenneth Haller, MD**
Grand Rounds
“I’ve Heard Some Things That Scare Me: Responding With Empathy to Parents’ Fears of Vaccinations,” February 8, 2012, co-presented with Tony Scalzo, MD

**Media**
WIL-FM 92.3, “Cornbread Morning Show,” September 2011, kids and cartoons
KMOX-AM 1120, September 2011, kids and cartoons
KMOX-AM 1120, September 2011, whooping cough
St. Louis Review, September 2011, “Faith and Medicine,” interview
WIL-FM 92.3, “Cornbread Morning Show,” October 2011, the Choking Game
KTVI-TV Channel 2, November 2011, chicken pox “parties”
KMOX-AM 1120, November 2011, dangers of skipping vaccines
KSDK-TV, Channel 5, January 2012, vaccines and kids.
KTVI-TV Channel 2, January 2012, vaccines and kids.
St. Louis Post-Dispatch, January 2012, Vaccines and kids, interview.
KMOX-AM 1120, January 2012, Shortage of ADHD drugs
KFTK-FM 97.1, “Vital Signs,” February 2012, child health
St. Louis Post-Dispatch, February 2012, “Guest commentary: Childhood vaccines”
St. Louis Beacon, February 2012, SIDS and child abuse

KMOX-AM 1120, April 2012, allergies and flu
KMOX-AM 1120, April 2012, pertussis
KMOX-AM 1120, April 2012, recommendations for helmet use during a tornado
KMOX-AM 1120, May 2012, hand, foot and mouth disease
KMOX-AM 1120, May 2012, miralax for constipation in kids
KMOX-AM 1120, June 2012, delayed immunizations
KWMU-FM 90.7, “St. Louis on the Air,” June 2012, Ask the Pediatrician

**Gene LaBarge, MD**
Pediatric Resident Noon Conference: “Primary Care Dermatology” (5/15/12)

**Jennifer Ladage, MD**


**Donna Halloran, MD**
Interview, Breastfeeding versus Formula: Choices for Healthy Babies. Ladue News, July 1, 2011
M. Susan Heaney, MD
“Professionalism,” Invited Speaker, SLUSOM GME Orientation, Learning Resource Center, June 19, 2012
“Patient Safety,” presentation at PL-1 Intern Retreat, Manresa Retreat Center, Saint Louis University, October 6, 2011

“Failure to Thrive,” Junior Student Noon Conference Series
“Adolescent Primary Care,” Pediatric Resident Noon Conference
School Readiness, Primary Preventive Care, Developmental Milestones, Adolescent Immunizations, Infant Sleep Problems for Morning Conferences
Drug Exposed Infants, Newborn Metabolic Screening, Infant Heads – St. Mary’s Newborn Service lectures

Jay Noffsinger, MD
Invited speaker at National Uniformed Services Annual Pediatric Seminar on Pediatric Sports Medicine.

Heidi Sallee, MD
M. Susan Heaney, MD, MPH, Matthew Broom, MD, Donna Halloran, MD, MSPH, Heidi Sallee, MD. 1/4/12
“Response to New Duty Hours Standards” Workshop presented at the Department of Pediatrics Annual Retreat (faculty development): November 2011
“Parenting and Discipline” resident noon lecture presented annually 2009-present
“Intimate Partner Violence Screening” for Occupational Therapy Students, presented annually 2006-present
“Intimate Partner Violence Screening in the Pediatric Setting” Third-year medical student noon lecture, presented during each eight-week rotation, March 2005-May 2012
“Nutrition in Children” Resident noon lecture, presented annually 2005-present
Ambulatory Conference, various primary care pediatric topics presented to third- and fourth-year medical students and pediatric and med/peds residents once per month, 9/2003-7/2009

Media
July 2011 – KSDK: Television interview: “Guns and Children”
February 14, 2011 – KMOV “How to talk with your children if they don’t receive Valentine’s Day cards.”
November 19, 2010 – KMOV Radio, “Pertussis”
Fall 2010 – Glennon Magazine: Interviewed for an article, “Bullying”
May 25, 2010 – Glennon News Network radio outreach: “Alcohol Use and Supervision of Teens During the Summer.”
May 6, 2010 - KMOV: In-studio television interview: “Seasonal Allergies, Recognizing and Treating.”
October 16, 2009 – KSDK: Television interview: “Flu Readiness and Supportive Care.”

David Wathen, DO
Fellows:  Deep Sedation and Propofol Infusions, July 2011
Residents:  Macupapular Rashes, May 2012  
           2011 UTI Clinical Practice Guideline, September 2011
           Inpatient Care Workshop, June 2011
Medical Students:  Bedside Diagnosis: Introduction to the Clinical Setting, April 2012

Grants

**NICHD K08**  
9/1/10 – 9/1/15  $729,000
Donna Halloran-Principal Investigator
Burden of Late-Preterm Births
Overall Goals: To determine if late-preterm infants are at increased risk for morbidity beyond the perinatal period

**Presidents Research Fund**  
2011-2012  $50,000
Donna Halloran – Principal Investigator
STRING (A Study in Rapid Infant Growth) – Two

**CATCH CPTI training grant**  
2009-2010  $12,000
Sandra McKay—Principal Investigator
Missouri Pediatric Foundation MO AAP 2010  $1000
Sandy McKay – Principal Investigator

**HRSA Grant**
Academic Administrative Units in Primary Care Grant, Collaborative with Family Medicine, General Internal Medicine and General Academic Pediatrics. Awarded September 2011. 5 year grant, $167,000/year for 5 years
Annual Report 2011-2012

Introduction and Description

The Division of Hematology-Oncology provides a full range of clinical services to children and adolescents with blood disorders and cancer. The Division’s referral area extends throughout Missouri and southern Illinois. Inpatient services include a four-patient Hematopoietic Stem Cell Transplantation unit. Outpatient services are provided within the Bob Costas Center and include consultations for new patients, ongoing clinical care for patients with blood disorders or cancer, chemotherapy infusions, and blood component transfusions. There are currently 6 clinical programs within the Division:

Hematopoietic Stem Cell Transplantation: Dr. Bhatla serves as our lead transplant physician.

Neuro-Oncology Program: This is a multi-disciplinary group that encompasses all of the disciplines engaged in caring for these complex patients, including pediatric oncology, pediatric neurology, neurosurgery, and radiation oncology. It also includes a Neuro-Oncology Long-Term Follow-up clinic, led by Dr. Thomas Geller.

Hemostasis Program: Dr. Hugge is administrative director of this program, and Dr. Puetz serves as the clinical director. It is the only federally-designated pediatric Comprehensive Hemophilia Treatment Center in the St. Louis area.

Sickle Cell Anemia/Hemoglobinopathies Program: Dr. Ferguson is interim director of this program, which includes a monthly clinic in Centreville, IL.

Apheresis Program: Dr. Hugge is the physician director of this program.

Long-term Follow-up: Dr. Puetz is the physician director for this program. The clinical programs include regular multi-disciplinary clinics in Neuro-oncology, Hemostasis, long-term follow-up, and Neuro-oncology long-term follow-up.

The Division is committed to advancing the care of children through collaboration with basic science research as well as numerous clinical research programs. The Division is an active participant in the Children’s Oncology Group and the Center for International Blood and Marrow Transplant Research, and is one of the founding institutions of the Neuroblastoma and Medulloblastoma Translational Research Consortium, which is actively investigating innovative approaches to the treatment of childhood cancer. The Division participates in several national and pharmaceutical company-sponsored studies in hemostasis and sickle cell disease.

Members of the Division take an active role in the education of residents and medical students, both by providing didactic lectures as well as serving as attending physician supervision for subspecialty and general pediatric patients and supervising residents and students doing electives in hematology-oncology.

The Division collaborates closely with the Saint Louis Cord Blood Bank (SLCBB), with Dr. Ferguson serving as Medical Director. The SLCBB submitted a Biologic License Application to the FDA in October 2011 and anticipates approval of prospectively manufactured products in 2012. It has also invested in the expansion of its basic science research program in the area of stem cell biology. The number of cord blood units donated for transplant continue to grow each year, and the SLCBB remains one of the largest such programs in the country.
Faculty Profiles

Deepika Bhatla, MD, Assistant Professor, Assistant Director, Stem Cell Transplantation Program

Interests: Leukemias, lymphomas, neuroblastoma, stem cell transplantation

Board Certification: Pediatrics; Pediatric Hematology-Oncology

Medical School: Lady Hardinge Medical College and Smt Sucheta Kripalani Hospital, New Delhi; University College of Medical Sciences and Guru Teg Bahadur Hospital, New Delhi

Residency: University of Kentucky Chandler Medical Center

Fellowship: Cincinnati Children’s Hospital Medical Center

William S. Ferguson, MD, Bob Costas Professor of Pediatrics, Director, Division of Hematology-Oncology

Interests: Bone and soft tissue sarcomas, new drug development, hemoglobinopathies

Board Certification: Pediatrics; Pediatric Hematology and Oncology

Medical School: New York University School of Medicine

Residency: Children’s Service, Massachusetts General Hospital

Fellowships: Children’s Service, Massachusetts General Hospital Center for Cancer Research, Massachusetts Institute of Technology

Karen Gauvain, MD, Assistant Professor, Director, Neuro-Oncology Program

Interests: Central nervous system tumors, general hematology and oncology

Board Certification: Pediatrics; Pediatric Hematology-Oncology

Medical College: Saint Louis University

Residency: Washington University/St. Louis Children’s Hospital

Fellowship: Washington University/St. Louis Children’s Hospital

Christopher Hugge, MD, Assistant Professor, Administrative Director, Hemostasis Program

Interests: Hemostasis, general pediatric oncology

Board Certification: Pediatrics; Pediatric Hematology and Oncology

Medical College: Saint Louis University

Residency: Saint Louis University/Cardinal Glennon Children’s Hospital

Fellowship: Washington University/St. Louis Children’s Hospital

Dennis M. O’Connor, MD, Professor, (Primary appointment in the Division of Infectious Disease)

Interests: Central nervous system tumors; infection in compromised hosts

Board Certification: Pediatrics; Pediatric Hematology and Oncology; Pediatric Infectious Diseases

Medical College: Saint Louis University School of Medicine

Residency: Saint Louis University/Cardinal Glennon Children’s Hospital

John Puetz, MD, Clinical Professor, Medical Director, Oncology Long-term Follow-up

Interests: Long-term follow-up for oncology patients, disorders of coagulation

Board Certification: Pediatrics

Medical College: Washington University

Residency: Washington University/St. Louis Children’s Hospital

Fellowship: University of Utah
Shermini Saini, MD, Assistant Professor of Pediatrics

Interests: Stem cell transplantation; developmental therapeutics; pediatric quality of life; medical education

Board Certification: Pediatrics, Pediatric Hematology-Oncology

Medical School: University of Wisconsin-Madison

Residency: Tulane University

Fellowship: Duke University

Professional Staff
Abigail Sharamitaro, RN, MSN, CPNP, CPON
Jeanne Harvey, APRN, PNP-C
Kelly Smith, RN, BSN
Jan Armstrong, RN, BSN
Kim Laurance
Kristen Lange, RN, OCN
Karen Imperiale, RN, BSN, CPON
Dawn Sleeper, RN
Laurin Mackey, RN, BSN
Rachel Schwartz, RN, BSN
Anna Setien, RN
Ashley Hite, RN, BSN
Tara Gardner, RN, BSN
Robert Parker, RN, BSN
Kim Whoberry, RN
Kristie Schulz, RN, BSN, CPON
Abigail Sharamitaro, RN, MSN, CPNP, CPON

Pediatric Nurse Practitioner
Pediatric Nurse Practitioner
Long-Term Follow-Up Clinic Nurse
Transplant Coordinator
Transplant Data Coordinator
Clinical Coordinator, Bob Costas Center
Nurse, Bob Costas Center
Nurse, Bob Costas Center
Nurse, Bob Costas Center
Nurse, Bob Costas Center
Clinical Discharge Coordinator
Interim Nursing Director
Nurse Educator, Hematopoietic Stem Cell Program
Medical Secretary
Medical Secretary
Clinic Secretary
Clinic Secretary
Research Nurse Supervisor
Research Nurse
Hemostasis Nurse Coordinator
Hematology-Oncotherapy Social Worker
Hemostasis Social Worker

St. Louis Cord Blood Bank
Donna M. Regan, MT (ASCP) SBB
Salem Akel, PhD
Carolyn Thompson, MB A, MT (AAB), GS (ABB)
Hui Xu, MS, MD
Kathy A. Mueckl, RN, BSN
Kathleen Fortune, MT (ASCP)
Kristine M. Wassmer, RN, BSN
Helen Kratochvil, BSC
Charlene Mitchell
Michael Macke, MT (ACSCP)
Christianna Henderson, MT, AA
Mary Kay Belota, MA, MT (ASCP) SBB
Kathryn Veitri, BSc
Michelle Howard, BA

Executive Director
Laboratory and Scientific Director
Team Leader
Biostatistician
Nurse Coordinator
Quality Specialist
Distribution Coordinator
Data Management & Search Specialist
Data Management Assistant
Clinical Lab Scientist
Quality Control and CT Lab Section Lead
Technical Supervisor
Clinical Lab Scientist
Clinical Lab Scientist
Research Highlights

**Deepika Bhatla, MD:** Research interests include the treatment of acute leukemias and lymphomas (with particular reference to the influence of host polymorphisms on disease incidence and response to treatment), and stem cell transplantation with a special interest in umbilical cord blood transplantation. She serves as institutional co-principal investigator for the Primary Immune Deficiencies Treatment Consortium (PIDTC), including Protocol #6901 (“A Prospective Natural History Study of Diagnosis, Treatment and Outcomes of Children with SCID Disorders”) and as institutional Principal Investigator for a Phase III trial for use of Defibrotide in Hepatic Veno-occlusive disease (VOD) and for the National Marrow Donor Program protocol 10-CBA (“A multicenter access and distribution protocol for unlicensed and cryopreserved cord blood units (CBUs) for transplantation in pediatric and adult patients with hematological malignancies and other indications.”)

**William S. Ferguson, MD:** Research interests include continued participation in front-line Children’s Oncology Group studies treating newly diagnosed osteosarcoma; clinical trials evaluating new antineoplastic agents in the treatment of solid tumors, in particular neuroblastoma; new drug therapies to prevent and treat complications of sickle cell disease. He is institutional Principal Investigator for the Children’s Oncology Group and the Neuroblastoma and Medulloblastoma Translational Research Consortium

**Karen Gauvain, MD:** Research interests include developing new therapies for the treatment of children with neurofibromatosis, especially those that develop NF-associated malignancies, and continued research into the treatment for CNS malignancies, including expanded participation in clinical trials both within the Children’s Oncology Group (including membership in the Children’s Oncology Group Low Grade Glioma study committee) and a multi-institutional project investigating more effective end-of-life communication to parents of children with brain tumors.

**Christopher Hugge, MD:** Major clinical research interests include continued participation in clinical trials designed to improve drug treatment of children with bleeding disorders, and participation in clinical trials conducted through the Children’s Oncology Group.
John Puettz, MD: Clinical research interests focus on treating and controlling complications of bleeding and thrombotic disorders in children, including participation in studies funded by the MCHB and CDC. Of particular interest is the development of novel agents to treat hemophilia and novel uses of recombinant Factor VIII, the use of fresh frozen plasma in pediatric patients, and genetic defects in patients with platelet function disorders.

Shermini Saini, MD: Clinical research interests include stem cell transplantation and improving the utilization of palliative and end-of-life care in children with life-altering diseases. She is Medical Director for CGMC’s Footprints program.

Salem Akel, PhD: Direct basic science stem cell research activities at the SLCCB to further characterize cord blood stem cell populations that would regenerate bone marrow and other tissues, expansion of hematopoietic CB stem cells on 2D and 3D matrices, and determines biologic and genetic factors contributing to release of hematopoietic fetal stem cells into cord blood. Additional focus of the basic research program is to develop and apply scientific sound plans to support HPCs manufacturing at the SLCCB in compliance with the FDA regulations such as sterility testing, environmental monitoring of GMP/GTP facility, and cord blood production stability.

The St. Louis Cord Blood Bank participates in NMDP/CIBMTR Protocol 10-CBA “A multicenter access and distribution protocol for unlicensed cryopreserved cord blood units (CBUs) for transplantation in pediatric and adult patients with hematologic malignancies and other indications”, as well as Osiris Protocol 603 (“A Phase II, multicenter, placebo-controlled, randomized, double-blind study to evaluate the safety and efficacy of PROCHYMAL® (ex vivo cultured adult human mesenchymal stem cells) intravenous infusion for the induction of remission in subjects experiencing treatment-refractory moderate-to-severe Crohn’s disease”) and Osiris Protocol 611 (“A multicenter, open-label study to evaluate the safety of PROCHYMAL® (remestemcel-L) intravenous infusion in subjects who have received previous remestemcel-L induction treatment for treatment-refractory moderate-to-severe Crohn’s disease”).

Publications


Abstracts


Akel S, MacRae AF, Regan D. Inhibitors of PCR in Cord Blood (CB) Products and Ancillary Samples. 10th Annual Cord Blood Symposium, San Francisco California, June 2012.

Audioconferences/Webinars


Honors and Other Academic Activities

Deepika Bhatia, MD
Reviewer, Pharmacogenomics.
Committees

Member, CIBMTR Writing Committee for manuscript entitled ‘Comparison of Transplant outcomes among patients from different racial/ethnic groups undergoing unrelated cord blood transplantation.’
Member, Pharmacy and Therapeutics Committee
Member, Pediatric Care Review Committee

**William Ferguson, MD**
Reviewer, *Journal of Pediatrics*

Committees
- Member, Voting Body, Children’s Oncology Group
- Member, Office of Sponsored Programs Oversight Committee, Children’s Oncology Group
- Department of Pediatrics CME Committee
- Saint Louis University Cancer Center Advisory Committee
- Saint Louis University Biomedical Institutional Review Board
- Saint Louis University, Research Compliance Committee
- Department of Pediatrics Strategic Planning Committee
- Co-chair, Department of Pediatrics Clinical Care Team
- University Medical Group Finance Committee

**Chris Hugge, MD**
Committees
- Chairman, Blood Utilization Committee, Cardinal Glennon Children’s Medical Center
- Camp Rainbow Medical Advisory Board

**Dennis O’Connor, MD**
Committees
- Board member and Past President, Vision for Children at Risk
- Board member, Garden District Commission

**John Puetz, MD**
Camp Physician, American Cancer Society
Camp Physician, Hemophilia Camp
Reviewer, *Journal of Pediatric Hematology/Oncology, Pediatrics*

Committees
- Chair, Hemophilia Advisory Committee, Missouri Department of Health
- Member, Genetics Advisory Committee Missouri Department of Health

**Donna Regan, MT**
Committees
- Food and Drug Administration Cellular, Tissue and Gene Therapies Advisory Committee
- HRSA Advisory Council on Blood Stem Cell Transplantation
- Associate Member, American Society of Clinical Pathologists (ASCP)
- Board of Directors, AABB
- Cord Blood Advisory Board, National Marrow Donor Program
- National Marrow Donor Program Quality Committee, Standards Committee, Proficiency Committee, and Research Committee
- AABB Cord Blood Subsection
- AABB CT Business Management Subsection
- Board Member, Worldwide Network for Blood & Marrow Transplantation (WBMT)

Reviewer, *Transfusion Journal, Biology of Blood and Marrow Transplantation, Cytotherapy Journal*
Salem Akel, PhD  
American Society of Hematology (ASH)  
American Association of Blood Banking (AABB)  

International Society of Cell Therapy (ISCT)  
AABB Cell Therapy Product Manufacturing and Testing Subsection  

Kathleen Fortune, MT (ASCP)  
Committees  
Co-Chair, AABB Quality Subsection Committee  
AABB Cellular Therapy Section Coordinating Committee  
AABB Cord Blood Subsection Committee  
AABB Regulatory Affairs Subsection  

Kathy Mueckl, RN  
NetCord/FACT Cord Blood Standards Committee  

Christianna Henderson, MT, AA  
SSM Emerging Leaders Program  

Presentations  

William Ferguson, MD  
“Hemoglobin and Hemoglobinopathies”, Saint Louis University School of Medicine 2nd year Genetics course, January 2012.  
“Cord Blood Transplantation from the Clinician’s (and Patient’s) Perspective”, Missouri Nurses Association Conference, St. Louis, MO, March 2012.  

Karen Gauvain, MD  
Participated in the 2nd year course “Patient, Physician and Society II, Death & Dying Unit” at Saint Louis University School of Medicine.  

Chris Hugge, MD  

John Puetz, MD  
“FFP: A History Lesson”, Pediatric Grand Rounds, Cardinal Glennon Children’s Medical Center, January 2012  
“Hemostatic Agents”, Hemophilia Regional Meeting, New Orleans, April 2012.  
“Jeopardy”, Hemophilia Camp, St. Louis, May, 2012  

Shermini Saini, MD  
“Sickle Cell Disease—Acute Complications and Inpatient Management”, pediatric intern orientation series, July 2011  
Pediatric Palliative Care: Footprints”, student lecture, AT Still University/KCOM, August 2011.  
Pediatric Palliative Care”, Sister Noreen McGowan Pediatric Nursing Conference, Cardinal Glennon Children’s Medical Center, October 2011  
“Caring for the Dying Child”, Panel Discussion, pediatric intern retreat, October 2011
Participated in the 2nd year course “Patient, Physician and Society II, Death and Dying Unit” at Saint Louis University School of Medicine.

“Pediatric Palliative Care”, Pediatric Grand Rounds, Cardinal Glennon Children’s Medical Center, November 2011

“Pediatric Palliative Care”, Noon Ethics Conference, Cardinal Glennon Children’s Medical Center, February 2012

Salem Akel, PhD
“Cord blood abnormal freezing curves: impact on quality”, AABB Annual Meeting, October 2011, San Diego, CA
“Sterility testing of cord blood products in compliance with FDA regulations”, AABB Annual Meeting, October 2011, San Diego, CA

Donna Regan, MT(ASCP)SBB
“Cord Blood Banking Regs and Rates” Sessions, 10th Annual Cord Blood Symposium, San Francisco California, June 2012. Chair, Moderator, Speaker, Panelist.

Kathy Mueckl, RN, BSN
Association of Donor Recruitment Professionals (ADRP) Annual Conference, May 15, 2012

Grants

**NIH SU10 CA098543, Subcontract #19527**
7/7/03-2/28/14 $123,000
W Ferguson, Institutional PI
National Childhood Cancer Foundation Chair’s Grant

**NIH U10 CA098543, Subcontract #19527**
7/1/11-6/30/12 $41,630
W Ferguson, Institutional PI
National Childhood Cancer Foundation Per-Case Reimbursement

Sickle cell and hemoglobinopathy of Illinois State
7/1/11-6/30/12 $13,200
W Ferguson, Principal Investigator

Health Resources and Services Administration, Maternal and Child Health Bureau, Hemophilia Regional Grant
6/1/11-5/31/12 $58,500
C Hugge and J Puetz, Co-Investigators

Center for Disease Control Universal Data Collection Grant
9/30/11-9/29/12 $52,650
C Hugge and J Puetz, Co-Investigators

Health Resources and Services Administration (HRSA) 340b factor distribution program

Timely End-of-Life Communication to Parents of Children with Brain Tumors
K Gauvain, Co-Investigator (Collaborative R21 grant)
Verna Ferguson, PhD, Barnes-Jewish Hospital, Principal Investigator
US Department of Health and Human Services, National Cord Blood Inventory, C.W. Bill Young Cell Transplantation Program

HHSH250201000015C  2010-20  $1,411,050

Biogen Idec: rFVIII:Fc study
J Puetz, Principal Investigator

Johnson & Johnson: Abciximab (ReoPro) as a Therapeutic Intervention for Sickle Cell Vaso-Occlusive Pain Crisis
W Ferguson, Principal Investigator
INTRODUCTION AND DESCRIPTIONS

The purpose of the Pediatric Infectious Disease Division is to provide state-of-the-art care to pediatric patients with acute and chronic infectious diseases, to educate medical students, residents, and community physicians on the latest advances in the field, and to perform leading edge research in our chosen areas of specialization.

Treatment is offered for all varieties of pediatric infectious disease problems for patients ranging in age from the newborns to young adults.

FACULTY PROFILES

Stephen J. Barenkamp, M.D., Professor and Division Director
Special Interests: Otitis media pathogenesis and otitis media vaccine development
Board Certification: Pediatrics, 1981
Pediatric Infectious Diseases, 2008
Medical College: University of Chicago Pritzker School of Medicine, Chicago, IL, 1973-1977
Residency: St. Louis Children’s Hospital, St. Louis, MO, 1977-1979
Fellowship: Washington University School of Medicine, St. Louis MO, 1979-1982

RESEARCH HIGHLIGHTS

Stephen J. Barenkamp, M.D.
The following abstract was presented at the 49th Annual Meeting of the Infectious Diseases Society of America, Boston, MA, October 2011.
Antibodies to the HMW1/HMW2 and Hia adhesins are opsonophagocytic for both homologous and heterologous nontypeable Haemophilus influenzae. LE Winter and SJ Barenkamp, Department of Pediatrics, St. Louis University School of Medicine.

HONORS

Stephen J. Barenkamp, M.D.

Editorial Advisory Board

The Journal of Infectious Diseases

Ad Hoc Manuscript Reviewer [Reviews completed during the 2011-2012 academic year]

National Institutes of Health Activities

Ad-hoc Study Section Member, Clinical Research and Field Studies of Infectious Diseases Study Section, NIH, October 2011 and June 2012.

Ad-hoc Study Section Member, Vaccines against Microbial Diseases Study Section, NIH, February 2012.

Clinical Awards

Best Doctors in America

PRESENTATIONS AT NATIONAL MEETINGS

Stephen J. Barenkamp, M.D.

The following abstract was presented at the 49th Annual Meeting of the Infectious Diseases Society of America, Boston, MA, October 2011.

Antibodies to the HMW1/HMW2 and Hia adhesins are opsonophagocytic for both homologous and heterologous nontypeable Haemophilus influenzae. LE Winter and SJ Barenkamp, Department of Pediatrics, St. Louis University School of Medicine.

GRANTS

Stephen J. Barenkamp, M.D.

Grant No: NIH 1R01 AI 81887
Principal investigator: Barenkamp
Title: Development of a vaccine for prevention of Haemophilus influenzae otitis media

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>$200,000</td>
<td>05/01/11</td>
<td>04/30/12</td>
</tr>
<tr>
<td>02</td>
<td>$200,000</td>
<td>05/01/12</td>
<td>04/30/13</td>
</tr>
<tr>
<td>03</td>
<td>$200,000</td>
<td>05/01/13</td>
<td>04/30/14</td>
</tr>
<tr>
<td>04</td>
<td>$200,000</td>
<td>05/01/14</td>
<td>04/30/15</td>
</tr>
</tbody>
</table>
Division of Medical Genetics

Annual Report 2011-2012

Introduction and Description

The Division of Medical Genetics provides diagnostic evaluation and care for infants, children, adolescents and adults with known or suspected genetic disorders. Genetic counseling is provided regarding prognosis, recurrence risk and implications for patients and family members. Prenatal counseling is provided in the Maternal and Fetal Care Center at St. Mary’s Health Center and in the state-of-the-art St. Louis Fetal Care Institute (FCI) at SSM Cardinal Glennon Children’s Medical Center. The Division plays a vital role in coordinating the care of patients with complicated disorders who require multidisciplinary medical care. Over 15,000 genetic disorders have been identified in the medical literature and the Division staff makes use of special clinical genetics diagnostic databases to help identify and confirm rare syndromic and metabolic disorders. Genetic services provided: Medical Genetics Clinic (CGCMC), Metabolic Clinic (CGCMC); Prenatal and Pre-Conception Genetics Clinic (SMHC); Inpatient Consultation Service (CGCMC, SMHC); Multidisciplinary Clinics (CGCMC) – CHARGE Syndrome Clinic, Cleft Lip and Palate Clinic, Marfan Clinic, Neurofibromatosis Clinic; Health Departments in Fayette, Jackson, Jefferson, and Madison Counties in Illinois. Cancer risk assessments and genetic counseling services are provided in conjunction with the SSM St. Mary’s Breast Center (SMBC) and SSM St. Joseph’s Medical Park Mammography Center (SJMP).

Primary reasons for referral to the Medical Genetics service include developmental delay, dysmorphic features, failure to thrive, suspected metabolic disorder, abnormal newborn screen, and genetic counseling for diagnosed genetic disorders. Indications for Prenatal Clinic referral include advanced maternal age, abnormal maternal serum screening, fetal abnormalities identified on ultrasound, teratogen exposure, and a family history of a genetic disorder. Adult patients are also seen in the Medical Genetics clinic for diagnostic evaluations and/or pre-symptomatic testing for genetic disorders. Cancer genetics assessments and recurrence risk counseling are available for patients with cancer and their families at CGCMC, SMBC and SJMP. The Division coordinates enzyme replacement therapy for patients with lysosomal storage disorders and treatment for osteogenesis imperfecta.

The Molecular Cytogenetics Laboratory at SSM-Cardinal Glennon Children’s Medical Center offers a comprehensive menu of tests including array-CGH(Comparative Genome Hybridization), fluorescence in situ hybridization (FISH), analyses of chorionic villus samples, amniotic fluid, products of conception, peripheral blood, bone marrow, lymph nodes and solid tumors. The laboratory currently completes approximately 152 prenatal, 904 neoplasm, 400 blood and tissue, 1920 FISH, and 593 array-CGH analyses per year. The laboratory is staffed by ten full-time cytogenetic technologists.

The Division of Medical Genetics is involved in education at many levels. Division members teach the majority of the first year medical student Molecular Biology and Genetics course and taught the Medical Genetics course for the SLU Department of Physician Assistant Education. Lectures are given annually to SLU Department of Physical Therapy students. The Division provides the genetics education portion of the Department of Obstetrics and Gynecology’s Maternal-Fetal Medicine fellowship training program. Division members offer interview skills feedback for first and second year medical students in the Physician, Patient and Society course. Medical students, pediatric residents, OB/Gyn residents, MFM fellows and college students rotate through the Medical Genetics Clinic and the Prenatal Genetics Clinic. Pathology residents from SLU, Glennon, UMC, and UMSL, oncology and genetic fellows and biomedical engineering students rotate through the Molecular Cytogenetics Laboratory. Lectures are offered to the third year medical students during their pediatric clerkship and for the pediatric residency core curriculum. Many presentations are given throughout the year in the Bi-State area for students, health professionals and family support groups.
The Genetic Division also provides supervision for visiting genetic counseling graduate students who complete 5-6 week summer rotations, and sometimes provides rotations for undergraduate students who are interested in careers in genetic counseling.

**Faculty Profiles**

**Stephen R. Braddock, MD, Professor, Director, Division of Medical Genetics**
**Interests:** Delineation of new multiple malformation syndromes, dysmorphology, prevalence and variation of prenatal teratogen exposures and birth defects, fetal alcohol syndrome.
**Board Certification:** Medical Genetics; Pediatrics
**Medical College:** University of Missouri-Columbia
**Residency:** Pediatrics, University of Utah Affiliated Hospitals, Salt Lake City, UT
**Fellowship:** Cedars-Sinai Medical Center, Department of Medical Genetics; University of California, Los Angeles, Intercampus Medical Genetics Training Program; Medical Genetics Fellowship. University of California, San Diego, Department of Pediatrics; Dysmorphology Fellowship

**Sandra H. Davenport, MD, Adjunct Associate Professor**
**Interests:** Hearing loss, CHARGE syndrome, developmental disorders
**Board Certification:** Pediatrics; Medical Genetics
**Medical College:** McGill University Faculty of Medicine
**Residency:** Pediatrics, University of Washington, Seattle, and Children’s Orthopedic Hospital
**Fellowship:** Abnormal Biological Development - Medical Genetics & Hearing Impairment, Comprehensive Care of Handicapped Children - University of Washington, Seattle

**Jacqueline Batanian, PhD, Professor, Director, Molecular Cytogenetics Laboratory**
**Interests:** Development of molecular cytogenetic techniques, mechanisms of chromosome rearrangements in cancer and at birth
**Board Certification:** American Board of Medical Genetics
**Post-doctoral Fellow:** Baylor College of Medicine, Texas
**Medical College:** PhD, University of Birmingham, England

**Adriana Maria Montaño Suárez, PhD, Assistant Professor Departments of Pediatrics & Biochemistry and Molecular Biology**
**Interests:** Basic and Translational Research of Mucopolysaccharidoses, in particular Morquio A syndrome, glycosaminoglycans - keratan sulfate.
**PhD:** Gifu University, Gifu, Japan
**Post-Doctoral Fellow:** Kobe Pharmaceutical University, Kobe, Japan
**Foreign Research Assoc:** Graduate University for Advanced Studies, Hayama, Japan
**Post-Doctoral Fellow:** Saint Louis University, St. Louis, MO

**Rachael Bradshaw, MS, CGC, Assistant Professor**
**Interests:** Prenatal Counseling, Fetal Anomalies
**Board Certification:** American Board of Genetic Counseling
**College:** University of Cincinnati, Medical Genetics

**Katherine Christensen, MS, CGC, Assistant Professor**
**Interests:** Clinical dysmorphology, neurogenetic disorders, lysosomal storage disorders, cardiac channelopathies
**Board Certification:** American Board of Genetic Counseling
**College:** Sarah Lawrence College, Human Genetics
Margaret Hefner, MS, CGC, Associate Clinical Professor
Interests: CHARGE syndrome, prenatal genetics
Board Certification: Medical Genetics; Genetic Counseling
College: University of Michigan, Human Genetics

Darbey Raible, MS, CGC, Assistant Professor
Interests: Prenatal genetics
Board Certification: American Board of Genetic Counseling
College: University of Cincinnati, Medical Genetics

Erin Torti, MS, CGC, Assistant Professor
Interests: Pediatric Genetics, Outreach Services
Board Certification: American Board of Genetic Counseling
College: University of Cincinnati, Medical Genetics

Laura Waldman, MS, CGC, Assistant Professor
Interests: Cancer genetics, neurofibromatosis
Board Certification: Medical Genetics; Genetic Counseling
College: Sarah Lawrence College, Human Genetics

Joel C. Eissenberg, PhD, Professor in Biochemistry, Secondary Professor in Pediatrics
Medical College: PhD, University of North Carolina-Chapel Hill
Fellowship: NIH Postdoctoral Fellow, Washington University, St. Louis, MO

Publications


Honors

Braddock, SR, America’s Top Physicians, Consumer Research Council of America, 2011
Montaño, AM, Saint Louis University 2012 Distinguished Teaching Awards. March 2012

Presentations

Braddock, SR. Clinical Teratology for the Practitioner, 43rd Matt Weiss Symposium, St. Louis. April 2011.


Braddock, SR. Fetal Alcohol Syndrome – The Importance of Preventing Alcohol Consumption During Pregnancy, Missouri Substance Abuse Prevention Network Conference, Lake Ozark, 50 people. December 2011.
Christensen KM. New Parent Support Group Training, "Active Listening, Ethical Concerns, and Empathy," Down Syndrome Association of Greater St. Louis, St. Louis, MO. April 2012.


Hefner MA. John Burroughs High School Genetics and Ethics Class, “Genetics and ethics from the viewpoint of a genetic counselor.” St. Louis, MO. November 2011.


Montano AM. Molecular Immunology and Immunogenetics Congress, "Identification of immunodominant peptides for the development of immunotherapy for Morquio A Disease," Antalya, Turkey, Turkey. (April 2012).


Montano AM. "Expanding Your Horizons in Mathematics and Science Conference," St. Louis, Missouri. (March 2012).

Montano AM. 8th Annual WORLD Symposium, "Identification of Immunodominant Epitopes in N-Acetylgalactosamine 6-Sulfate Sulfatase (GALNS) for Designing an Effective Peptide-Based Immunotherapy," Lysosomal Disease Network, San Diego, CA. (February 2012).


Montano AM. "MPS: Clinical phenotype and epidemiology," Berlin, Germany. (November 2011).


Almeciga-Diaz, C.J., Montano, AM, Shelley, E., Barrera, L., Tomatsu, Shunji, VIII Latin American Congress of Inborn Errors of Metabolism and Neonatal Screening, "Tailoring the Adenoassociated Virus Capsid for Bone-Targeting in Morquio A Disease," Cusco, Peru. (September 2011).


Grants

Stephen R. Braddock, MD - Principal Investigator
Missouri Department of Health Tertiary Genetic Center
Illinois Department of Public Health Genetic Counseling Clinical Services Program
Adriana María Montaño Suárez, PhD – Principal Investigator
Actelion Pharmaceuticals Research
National Institutes of Health
Saint Louis Institute of Nanomedicine
Enobia pharma
National MPS Society
Ultragenyx

Katherine Christensen, MS, CGC – Key Personnel
Missouri Department of Health – Cystic Fibrosis
DIVISION OF NEONATAL / PERINATAL

Annual Report 2011-2012

Introduction and Description
The purpose of the Division is to help fulfill the mission of the Saint Louis University Department of Pediatrics, to provide exemplary neonatal care, to continue to build outstanding programs of public and professional education and to contribute a wide variety of productive research.

Clinical Care:
Venues of neonatal care include the Neonatal Intensive Care Units at St. Mary’s Health Center and Cardinal Glennon Children’s Medical Center, the Neonatal Transport Team of Cardinal Glennon Children’s Medical Center, the pre and perinatal consultation services at St. Mary’s Health Center and the Fetal Care Institute, the Level II Nurseries at St. Joseph-West, St. Clare Health Center and St. Anthony’s Medical Center, consultation services at DePaul, St. Joseph’s Health Center-St. Charles and Memorial Hospital-Belleville and the Multidisciplinary High Risk Infant Follow-up Clinics. The faculty led and participate in quality improvement efforts for each of these entities.

Education:
Education and training are provided for Saint Louis University undergraduates, medical students, SLU residents in Pediatrics, Pediatrics/Internal Medicine, Obstetrics, Neonatal Perinatal Medicine and Anesthesiology. Members of the Division participate in a variety of educational opportunities for undergraduate and graduate nurses and respiratory therapists. An important educational effort is the regional perinatal education program. In cooperation with faculty of Obstetrics and Cardinal Glennon/St. Mary’s nursing leadership, the faculty regularly participate with the medical and nursing staffs of forty referring maternal services in educational and quality improvement programs.

The residency program in Neonatal Perinatal Medicine deserves special attention. Currently there are four GME funded positions, which are expanding to six. These individuals will be key policy, educational and research leaders of the future. Formal courses in epidemiology, statistics, evidenced-based practice, pathophysiology and nutritional care of the preterm infant as well as intensive bedside instructions in research and close mentoring relationship with the faculty are key ingredients in this preparation.

Research:
Divisional research includes public health, clinical and bench investigations. Investments of time and effort are devoted to outcomes research with a major emphasis on long-term well-being of NICU survivors. Clinical research has focused on probiotic supplementation (M Al-Hosni), intestinal blood flow (T Havranek) and resuscitation/airway management (A Ali). A new clinical focus has been placed on nutritional support before and after hospital discharge with an emphasis on determination of requirements as well as short- and long-term effects on growth, metabolic status and development in these high-risk infants (R Cooke). Bench research in the division has focused on the developing immune system (J Koenig) and iron homeostasis/metabolism (R Fleming) during infancy.

Faculty Profiles
Mohamad Al-Hosni, MD, Associate Professor

Interests: Infant nutrition, Delivery room management for ELBW infants, probiotic supplementation to enteral feeds to prevent NEC, Qi process for improved morbidity outcomes

Board Certification: Pediatrics; Neonatal-Perinatal Medicine

Medical College: Damascus University Medical School, Damascus Syria

Residency: St. John Hospital & Medical Center, Detroit

Fellowship: Saint Louis University School of Medicine
Ayoob Ali, MD, MPH  Associate Professor
Interests: Airway management, LMA and resuscitation
Board Certification: Pediatrics; Neonatal-Perinatal Medicine
Medical College: Dow Medical College, Karachi, Pakistan
Residency: University of Kansas School of Medicine, Wichita, KS
Fellowship: Saint Louis University School of Medicine, St. Louis, MO

Connie D. Anderson, MD, Assistant Professor
Interests: Neurodevelopmental disabilities and long term follow-up, neonatal abstinence syndrome and long term follow up
Board Certification: Pediatrics; Neonatal-Perinatal Medicine
Medical College: Saint Louis University School of Medicine
Residency: Saint Louis University School of Medicine (1st & 2nd yr); University of New Mexico (3rd yr)
Fellowship: University of New Mexico

Thomas M. Bender, M.D., Assistant Professor
Interests: Medical ethics
Board Certification: Pediatrics; Neonatal-Perinatal Medicine
Medical College: University Pittsburgh School of Medicine
Residency: Ohio State University College of Medicine
Fellowship: Saint Louis University School of Medicine

Robert W. Brooker, MD, Assistant Professor
Interests: Outcome based quality initiative, long term neurologic development and resident education.
Board Certification: Pediatrics; Neonatal-Perinatal Medicine
Medical College: Saint Louis University School of Medicine
Residency: Saint Louis University School of Medicine
Fellowship: Saint Louis University School of Medicine

Gregory R. Booth, MD, Assistant Professor
Interests: Ventilatory management, neonatal nutrition, ECMO management
Board Certification: Pediatrics; Neonatal-Perinatal Medicine
Medical College: University of Missouri School of Medicine, Columbia, MO
Residency: Saint Louis University School of Medicine, St. Louis, MO
Fellowship: Saint Louis University School of Medicine, St. Louis, MO

Laura Cerny, MD, Assistant Professor
Interests: Neonatal resuscitation and transport
Board Certification: Pediatrics; Neonatal-Perinatal Medicine
Medical College: University of Illinois, College of Medicine, Peoria, IL
Residency: Children's Hospital of Orange County, Orange, CA
Fellowship: Harbor-UCLA Medical Center/Children's Hospital of Orange County, Torrance/Orange, CA

Catherine Cibulsakis, MD, Assistant Professor
Interests: Impact of Maternal Health on Neonatal Outcome
Board Certification: Pediatrics, Neonatal-Perinatal Medicine
Medical College: Washington University School of Medicine, St. Louis, MO
Residency: Saint Louis Children's Hospital, St. Louis, MO
Fellowship: Baylor College of Medicine, Houston, TX
Richard J Cooke, MD, Professor
Interests: Nutrition in preterm infants
Board Certification: Pediatrics, Neonatal-Perinatal Medicine, Royal College of Physicians of Ireland
Residency: University of Virginia
Fellowship: University of Virginia, Albany Medical Center, University of Iowa

Robert E. Fleming, MD, Professor
Interests: Iron homeostasis
Board Certification: Pediatrics; Neonatal-Perinatal Medicine
Medical College: Saint Louis University School of Medicine
Residency: Vanderbilt University School of Medicine, Nashville, TN
Fellowship: Washington University School of Medicine, St. Louis, MO

Michael French, MD, Assistant Professor
Interests: Pulmonary inflammation
Board Certification: Pediatrics
Medical College: Saint Louis University School of Medicine, St. Louis, MO
Residency: Indiana University Medical Center, Indianapolis, IN
Fellowship: Washington University School of Medicine, St. Louis, MO

Heather D. Hall, MD, Assistant Professor
Interests: Faculty development, patient safety, and quality improvement
Board Certification: Pediatrics; Neonatal-Perinatal Medicine
Medical College: Saint Louis University School of Medicine, St. Louis, MO
Residency: Saint Louis University School of Medicine, St. Louis, MO
Fellowship: Saint Louis University School of Medicine, St. Louis, MO

Thomas Havranek, MD, Assistant Professor
Interests: Intestinal blood flow and perfusion – NEC, cholestasis
Board Certification: Pediatrics; Neonatal-Perinatal Medicine
Medical College: Charles’ University, 1st Medical Faculty, Czech Republic
Residency: The Long Island College Hospital, New York, NY
Fellowship: Children’s National Medical Center, Washington, DC

William J. Keenan, MD, Professor
Interests: An outstanding program of perinatal outreach education to support the best possible health for mothers and babies in this community. Promote improved health outcomes for the world’s children through work with the American Academy of Pediatrics and the International Pediatric Association.
Board Certification: Pediatrics; Neonatal-Perinatal Medicine
Medical College: Loyola University-Stritch School of Medicine, Chicago, IL
Residency: Boston City Hospital, Boston, MA; Children’s Hospital, Cincinnati, OH
Fellowship: University of Cincinnati, Cincinnati, OH

Joyce Koenig, MD, Professor
Interests: Neonatal inflammatory mechanisms and immune function
Board Certification: Pediatrics; Neonatal-Perinatal Medicine
Medical College: University of South Dakota School of Medicine
Residency: Baylor College of Medicine, Houston, TX
Fellowship: Baylor College of Medicine, Houston, TX; University of Utah School of Medicine, Salt Lake City, UT
Akihiko Noguchi, MD, Professor

**Interests:** Promotion of maternal child health and prevention of neonatal diseases by epidemiological and public health approach

**Board Certification:** Pediatrics; Neonatal-Perinatal Medicine

**Medical College:** Keio University, Tokyo, Japan

**Residency:** University of Illinois Hospitals, Chicago, IL & West Virginia University Hospitals, Morgantown, WV

**Fellowship:** University of Minnesota Hospitals, Minneapolis, MN

H. Farouk Sadiq, MD, Associate Professor, Director Neonatal-Perinatal Medicine

**Interests:** Medical information technology, pulmonary hypertension

**Board Certification:** Pediatrics; Neonatal-Perinatal Medicine

**Medical College:** University of Nairobi, Faculty of Medicine, Nairobi, Kenya

**Residency:** Saint Louis University School of Medicine, Cardinal Glennon Children’s Hospital

**Fellowship:** Saint Louis University School of Medicine

Kimberly L. Spence, MD, Assistant Professor

**Interests:** Quality improvement initiatives, tobacco cessation and awareness

**Board Certification:** Pediatrics; Neonatal-Perinatal Medicine

**Medical College:** University of Missouri School of Medicine, Columbia, MO

**Residency:** Washington University School of Medicine, St. Louis, MO

**Fellowship:** Washington University School of Medicine, St. Louis, MO

Corinne Valentik, MD, MPH Professor

**Interests:** Public health aspects of perinatal care and perinatal substance abuse and its effects on infant outcome, community development of maternal and child health services

**Board Certification:** Pediatrics; Neonatal-Perinatal Medicine

**Medical College:** Saint Louis University School of Medicine

**Residency:** Saint Louis University School of Medicine, Cardinal Glennon Children’s Hospital

**Fellowship:** Saint Louis University School of Medicine

Residents-Neonatal-Perinatal Medicine

A comprehensive three year training program designed to meet all requirements for certification by the sub-board of Neonatal Perinatal Medicine.

Inna Treskov, MD – 3rd year in program

- Research Mentor – Richard Cooke
- Clinical Mentor – Farouk Sadiq
- Nutrition and immune function in ELBW Infants

Dorothy Gleditsch, MD – 2nd year in program

- Research Mentor – Joyce Koenig
- Clinical Mentor – Connie Anderson
- Neonatal immune response to infection

Justin Josephsen, MD – 1st year in program

- Research Mentor – Mohamad Al-Hosni
- Clinical Mentor – Laura Cerny
- Cord Milking and ELBW
Aaron Pitzele, MD – 1st year in program  
Research Mentor – Thomas Havranek  
Clinical Mentor – Robert Fleming  
Intestinal Blood Flow and Infusion

Research Highlights

F. Sadiq, MD Facilitating research protocols by fellows.

R. Fleming, MD Performs laboratory-based research investigating the molecular mechanisms regulating iron homeostasis. Iron is an important co-factor in the cellular injury associated with increased oxidant stress (e.g., inflammation, use of supplemental oxygen). His primary focus is characterizing the role of hepcidin in regulating the uptake of dietary iron and the distribution of tissue iron between sites of storage and utilization. His lab has generated a mouse knockout of the TR2 gene. This mouse model is being studied and compared with mice in which the HFE gene (responsible for hereditary hemochromatosis) has been knocked out. The roles for TR2 and the iron regulatory hormone hepcidin in the altered iron metabolism observed during inflammation are also being investigated. The potential therapeutic use of exogenous transferring is also being investigated. These studies will allow for a better understanding of the means by which the body regulates the uptake and cellular distribution of iron in normal and pathologic states. Dr. Fleming’s laboratory is in the Doisy Research Building.


H. Hall, MD Outcomes, environment of care, and respiratory control.


W. Keenan, MD Reviewer for the Journal of Maternal-Fetal and Neonatal Medicine

J. Koenig, MD Dr. Koenig directs an NIH-funded program (Developmental Leukocyte Biology Laboratory) to study aspects of neonatal immunity and inflammation. Her laboratory has supported research faculty (Donald Lawrence, PhD) and is has been a training ground for basic science postdoctoral fellows (Rashmi Pillai, PhD), Neonatal Perinatal Medicine clinical fellows (Dr. Ginger Darling, Dr. Mohanned Moallem, Dr. Schuyler Mims, Dr. Dorothy Gleditsch, Dr. Daniel Rito), a pediatric resident (Inna Treskov), a Maternal Fetal Medicine Fellow (Dr. Thinh Nguyen), and numerous summer students (medical, undergraduate, high school). Since joining the SLU faculty in 2006, Dr. Koenig’s work has been presented as platform talks and posters at every annual meeting of the PAS and several national meetings of the American Academy of Pediatrics. Dr. Koenig’s basic science and translational research program is focused on neonatal inflammation and immunity. Ongoing projects include: 1) Mechanisms of neutrophil apoptosis and survival; 2) Neonatal immune regulatory mechanisms in chorioamnionitis; and 3) Innate-adaptive immune mechanisms involved in neonatal inflammation. She has formed collaborations with other clinical (OB-GYN) and basic science (Molecular Microbiology & Immunology; Biology) departments at Saint Louis University as well as with investigators at Washington University (St. Louis), Baylor College of Medicine (Houston), the University of Florida (Gainesville), Indiana University (Indianapolis), Tufts University (Boston) and Université Paris Diderot (France).
During her tenure as Associate Chair of Research she began and continues to coordinate an annual departmental Pediatric Science Days Symposium and Visiting Professorship to highlight pediatric research at Saint Louis University. This well received event has had increasing participation each year that extends beyond departmental boundaries. This year she hosted Dr. Mary Dinauer, Scientific Director of the Discovery Institute, Washington University, as the Visiting Professor for Pediatric Science Days 2012. The Introduction to Academics course that she designed and instituted in 2009 remains an integral part of the core curriculum for SLU pediatric clinical fellows.

Dr. Koenig has served on several study sections at the NIH, has been an abstract reviewer and session chair for the Society of Pediatric Research, (SPR) and has been an invited faculty speaker at national meetings including the SPR and most recently at the AAP NeoPrep course. She is a member of the Society for Pediatric Research and the American Pediatric Society. She served as Chair for the SPR Young Investigator Award Committee and was the elected pediatric representative on the councils for both the Perinatal Research Society and the Midwest Society for Pediatric Research (MWSPR). She is this year’s President for the MWSPR.

Publications


Lawrence DW, Koenig JM: Enhanced Fc gamma RIIa-mediated phagocytosis in neonatal monocyte-derived macrophages may be associated with decreased SHP-1 tyrosine phosphatase activity. Immunological Investigation 41:129-143, 2012.

Presentations


Havranek T, Rahimi M, Armbrecht ES: Effects of a patent ductus arteriosus on postprandial intestinal blood flow in extremely low birth weight (ELBW) neonates. ESPR (European Society for Paediatric Research) Meeting, Newcastle, UK, October 2011


W. Keenan: Bridging the Gap: Bringing Evidence Based Practice to Global Health. Global Health Conference – October 1, 2011 at Cincinnati Children’s Hospital
W. Keenan: Course Master – NRP Training Course – IAP, January 16-17, 2012 Pedicon

W. Keenan: “Neonatal Resuscitation” – IAP, January 16-17, 2012 Pedicon

W. Keenan: “Special Considerations” – IAP, January 16-17, 2012 Pedicon

W. Keenan: Neonatal Infection Diagnosis/Treatment” 5th Reunion de las Americas, Association Mexicana de Pediatria. Mexico City, Mexico February 22, 2012


Grants

Saint Louis University Liver Center  
2/2011 – 8/2012 $25,000  
Robert Fleming – Principal Investigator  
Role of HFE in Modulating the Effect on NTBI on Hepcidin Expression

Saint Louis University Bridge Funding  
11/2011 – 10/2012 $88,913  
Robert Fleming – Principal Investigator  
Regulation of Hepcidin Expression by Iron
Southern Illinois Perinatal Education and Administration – Illinois Department of Health
1987-Present $358,000/year
William Keenan—Principal Investigator
Southeastern Missouri Perinatal Outreach Education

**National Institutes of Health (NICH) RO1 HD 47401**
02/2012-01/14 $412,000 (total)
Joyce Koenig—Principal Investigator
NIAID

**Abbott Nutritionals**
4/2012-3/2012 $4,400 (total)
Joyce Koenig—Principal Investigator
Pediatric Science Days

**Cornerstone Therapeutics**
4/2012-3/2012 $4,400 (total)
Joyce Koenig—Principal Investigator
Pediatric Science Days

**Nestec**
11/1/09-12/31/11 $195,000
Richard J Cooke – PI Multicenter Grant
Effect of different levels of protein on immunological status, feeding tolerance and growth in preterm infants

**Nestec**
Richard J Cooke – Seed Grant 08/09-12/21/11 $110,000
Dietary intake, body composition and measures of insulin resistance in preterm infants.
**Division of Nephrology**

**Division of Nephrology**
**Annual Report 2011-2012**

**Introduction and Description**

The Division of Pediatric Nephrology in the Department of Pediatrics of Saint Louis University provides comprehensive care for infants, children, and adolescents with various forms of kidney or urologic disorders. Care is provided for both acute and chronic disorders with a multidisciplinary team, including physicians, renal nursing, renal dietician, renal social worker, and play therapist. Members of the division are involved in teaching of medical students, residents, community physicians, and families, and participate in various clinical research studies. The division is housed at Cardinal Glennon Children’s Medical Center.

Types of treatment offered include renal biopsy, acute and chronic hemodialysis, acute and chronic peritoneal dialysis, including a peritoneal dialysis training program, acute hemofiltration, renal transplantation, and ambulatory blood pressure monitoring, in addition to inpatient and outpatient care and consultative services.

Services are provided for a variety of kidney disorders, including congenital and hereditary disorders involving the kidney and urinary tract, urinary tract infections, kidney stones, hypertension, acute and chronic glomerular and tubular disorders and renal diseases that occur secondary to a variety of systemic diseases, such as systemic lupus erythematosus, diabetes mellitus, and vasculitis. The division provides primary management of renal transplant recipients along with members of the Transplant Surgery service.

The division began a renal transplant program in 1983. Since that time, approximately 135 transplants have been performed. The division currently follows approximately 45 renal transplant recipients. Deceased Donor, Living Related, and Living Unrelated Transplantation is currently performed.

The division has a special interest in hypertension, and has a weekly clinic for patients with primary hypertension, and an active Ambulatory BP monitoring program. A bimonthly outreach Clinic is held at St. Anthony’s Outpatient facility.

Educational programs address training of pediatric residents, family practice residents, and medical students, as well as community programs for families of children with renal disease and CME activities for community physicians.

During the last year, the division has instituted a formal Transition Program for Dialysis patients to aide in successful transition to adult care; a formal Transition Program is being developed for Renal Transplant recipients as well. The Division is participating in 2 new Multi-center Studies.

**Faculty Profiles**

**Craig W. Belsha, MD**, Professor

*Interest:* Hypertension, ambulatory blood pressure monitoring, renal transplantation and dialysis

*Board Certification:* Pediatrics, Pediatric Nephrology

*Medical College:* University of Missouri-Kansas City

*Residency:* Baylor College of Medicine

*Fellowship:* Baylor College of Medicine
L. Richard Feldenberg, MD, Assistant Professor  
**Interest:** Renal tubular disorders, congenital renal disorders, acid-base disturbances, renal transplantation  
**Board Certification:** Pediatrics; Internal Medicine; Pediatric Nephrology  
**Medical College:** University of Missouri-Columbia  
**Residency:** University of Illinois College of Medicine at Peoria (Combined Internal Medicine and Pediatrics)  
**Fellowship:** Yale University

Elizabeth Abraham, MD, Assistant Professor  
**Interest:** Descriptive and interventional clinical studies of children with kidney disease, transition from pediatric to adult care in patients with chronic kidney disease, kidney stones, dialysis and transplantation  
**Board Certification:** Pediatrics; Board eligible in Pediatric Nephrology  
**Medical College:** Jefferson Medical College  
**Residency:** Case Western Reserve University  
**Fellowship:** Cincinnati Children's Hospital Medical Center

Ellen G. Wood, MD, Professor, Director of Pediatric Nephrology  
**Interests:** End stage renal disease in infants and young children, early diabetic nephropathy, renal transplantation, kidney stones  
**Board Certification:** Pediatrics; Pediatric Nephrology  
**Medical College:** University of Alabama in Birmingham  
**Residency:** University of Alabama in Birmingham  
**Fellowship:** University of Texas Medical Branch, Galveston

Research Highlights

The division participates in the North American Pediatric Renal Transplant Cooperative Study, a registry for Transplant, Dialysis, and Chronic Renal Insufficiency patients. The Division is participating in funded NIH Multi-Center Studies, Pharmaceutical studies, and Multi-Center Studies with the Midwest Pediatric Nephrology Consortium Study Group. Dr. Abraham was the Senior author of an award winning poster at the ATC meetings in June, 2012- see presentations. Dr. Belsha participated in the Q-Metric Pediatric BMI follow-up Panel advising University of Michigan with a grant funded by the Agency for Healthcare Research and Quality to develop and validate national quality measures for BMI assessment and counseling for nutrition and physical activity. Dr. Belsha continues to serve on the Atypical HUS Foundation, which has been active in funding research studies related to this devastating disease. The Division also participates in the International Pediatric Hypertension Association Study Group.

The division is participating in the following multi-center NIH studies:  
1. Chronic Kidney Disease in Children (CKID study).  

Pharmaceutical Multi-Center Studies:  
A Randomized, Double-Blind, Placebo-Controlled Study to Assess the Efficacy and Safety of Cinacalcet HCL in Pediatric Subjects with Chronic Kidney Disease and Secondary Hyperparathyroidism Receiving Dialysis.
The division is participating in the following Multi-center studies with the Midwest Pediatric Nephrology Consortium Study Group:

1. Genome Wide Association Study of Childhood Onset Idiopathic Nephrotic Syndrome.

Publications


Honors and Other Academic Activities

Craig Belsha, MD
Best Doctors, 2011, 2012; St. Lukes Award, SSM Cardinal Glennon, 2011; Ambassadors Choice Award, Glennon ambassadors, 2012; Liaison for 3rd year Medical Student Subspecialty Rotation in Pediatric Nephrology; Executive Committee for International Pediatric Hypertension Association, 2006-2011. Treasurer, 2011; Grant Review Committee for Children with Atypical HUS; Atypical HUS Advisory Board for Alexion Pharmaceuticals; Q-Metric Pediatric BMI follow-up Representative Panel, April 16-17, 2012. This panel provided feedback to the University of Michigan, Q-Metric team (Quality, Measurement, Evaluation, Testing, Review and Implementation consortium) with grant funded by the Agency for Healthcare Research and quality to develop and validate national quality measures for BMI assessment and counseling for nutrition and physical activity; Counselor for Camp Okawena, a renal camp for children with end stage renal disease and post renal transplantation; Journal Reviewer: J.Pediatrics, Blood Pressure Monitoring.

L. Richard Feldenberg, MD
Preceptor for Sophomore Medical Student Course: Introduction to Clinical Medicine; Liaison for Resident Teaching Elective in Nephrology for Residency Program; Journal Club, Division of Pediatric Nephrology; Faculty Advisor for 1 resident; volunteer, Health Resource Center, 2011.

Elizabeth Abraham
Volunteer, Health Resource Center, 2011; Graduated M.S. in clinical Research, University Cincinnati, 12/2011; Serving on Board for Broader Vision School (School being built for orphans in Uganda); Journal Reviewer: Pediatric Nephrology, Clinical Journal of the American Society of Nephrology.

Ellen Wood, MD
Best Doctors, 2011, 2012; Faculty Status Committee, Department of Pediatrics; Chairman, ESRD Committee, Cardinal Glennon Children’s Medical Center; PPAC Committee, St. Louis University; Representative for ESRD Network #12; Medical Review Board for Midwest Transplant Association; Planning Committee for Camp Okawena, a renal camp for children with end stage renal disease and post renal transplantation; Faculty Advisor for 2 Residents; Journal Reviewer: American Journal of Kidney Disease.
Presentations

Elizabeth Abraham, MD

L. Richard Feldenberg, MD

Grants

NIH
E Wood, MD – PI at St. Louis University
CKID Study - Multi-Center Study
8/1/04-2014 $3700.00/patient enrolled

Amgen
E Wood, MD – PI at St. Louis University
A Randomized, Double-Blind, Placebo-Controlled Study to Assess the Efficacy and Safety of Cinacalcet HCL in Pediatric Subjects with Chronic Kidney Disease and Secondary Hyperparathyroidism Receiving Dialysis.
11/2011 until completed $16,791/patient enrolled

NIH
E Wood, MD – PI at St. Louis University
Novel Therapies for Resistant Focal Segmental Glomerulosclerosis (FSGS): A Phase II Clinical Trial.
6/2012 until completed $4500.00/patient enrolled
Annual Report 2011-2012

Introduction and Description

The Division of Pulmonary Medicine cares for children with a variety of acquired and congenital respiratory disorders as well as sleep disorders. The members of the division are actively involved in educational teaching activities for CME programs locally and nationally, teaching of medical students, residents, and students in other disciplines including nursing, allied health (physician assistants) and respiratory therapy. An active clinical research program is an integral part of the activities of the division and includes work in sleep disorders, asthma, and cystic fibrosis. With the recruitment of Dr. Kurt Sobush in the summer of 2011, the division has developed an active basic science research program in collaboration with the Departments of Biology, Molecular Microbiology and Immunology, and the St. Louis Cord Blood Bank. Members of the division have active leadership roles in administrative responsibilities for the hospital, university, and national organizations including the American Thoracic Society, Cystic Fibrosis Foundation, the American Academy of Sleep Medicine, and the Federation of American Societies for Experimental Biology. The division has an active outpatient program with multidisciplinary clinics caring for children with cystic fibrosis, asthma, sleep disorders, and for children who are “dependent” on technology (e.g., children receiving home mechanical ventilation). In addition, children with more routine pulmonary disorders are seen as outpatient consultations. Division members also see patients in busy outreach clinics located in Belleville, Illinois (Southern Illinois Healthcare Foundation); Jefferson City, Missouri (St. Mary’s Pediatrics); Lake St. Louis, Missouri (St. Joseph Hospital West); and in Maryville, Illinois (Anderson Hospital).

Faculty Profiles

**Gary M. Albers, MD**, Professor, Co-director of the Asthma Center for Children, Co-director of the Cystic Fibrosis Center and Director of Bronchoscopy

**Interests:** Clinical research in asthma, cystic fibrosis

**Board Certification:** Pediatrics; Pediatric Pulmonology

**Medical College:** Saint Louis University School of Medicine

**Residency:** Saint Louis University School of Medicine, Cardinal Glennon Children’s Medical Center

**Fellowship:** University of North Carolina-Chapel Hill

**Meena Murti, MD**, Adjunct Assistant Professor in the Pediatric Sleep and Research Center

**Interests:** Obstructive sleep apnea, restless legs syndrome, delayed sleep phase syndrome in adolescents, Behavioral Insomnia of Childhood.

**Board Certification:** Pediatrics

**Medical College:** Baylor College of Medicine

**Residency:** Baylor College of Medicine

**Fellowship:** University of Michigan

**Blakeslee E. Noyes, MD**, Professor, Director of the Division of Pulmonary Medicine, Director, Cystic Fibrosis Center; Vice-Chairman, Clinical Affairs and Finance, Department of Pediatrics

**Interests:** Pulmonary host defense, cystic fibrosis, vocal cord dysfunction

**Board Certification:** Pediatrics; Pediatric Pulmonology

**Medical College:** Saint Louis University School of Medicine

**Residency:** Saint Louis University School of Medicine, Cardinal Glennon Children’s Medical Center

**Fellowship:** University of Pittsburgh School of Medicine
Shalini Paruthi, MD, Assistant Professor, Director of the Pediatric Sleep and Research Center

**Interests:** CPAP adherence in children with obstructive sleep apnea, restless legs syndrome, insomnia

**Board Certification:** Internal Medicine; Sleep Medicine

**Medical College:** University of Missouri-Kansas City School of Medicine

**Residency:** University of Michigan

**Fellowship:** University of Michigan

Kurtis T. Sobush, MD, Assistant Professor

**Interests:** Basic science research in viral lung/airway injury, chronic lung injury following RSV infection, airway epithelial progenitor cell behavior

**Board Certification:** Pediatrics

**Medical College:** Saint Louis University School of Medicine

**Residency:** Saint Louis University School of Medicine, Cardinal Glennon Children’s Medical Center

**Fellowship:** Duke University Medical Center

Robert W. Wilmott, MD, IMMUNO Professor and Chair of the Department of Pediatrics

**Interests:** Clinical and basic scientific aspects of cystic fibrosis

**Board Certification:** Pediatrics; Pediatric Pulmonology

**Medical College:** University College Medical School, London, The Hospital for Sick Children, London

**Residency:** University College Hospital, London

**Fellowship:** The Hospital for Sick Children, London

Jamie L. Wooldridge, MD, Associate Professor of Pediatrics, Director-Cystic Fibrosis Quality Improvement Work Group

**Interests:** Outcomes research in cystic fibrosis and asthma

**Board Certification:** Pediatric Pulmonology

**Medical College:** Indiana University School of Medicine

**Residency:** James Whitcomb Riley Hospital for Children, Indiana University Medical Center

**Fellowship:** Denver Children’s Hospital, University of Colorado Health Sciences Center

**Fellowship:** National Jewish Medical and Research Center

Staff

Mary Kay Brasken, MSW, Social Worker, Cystic Fibrosis Center, Pulmonary Medicine

Judy Brusatti, MSN, RN, CPNP, Cystic Fibrosis Nurse Coordinator

Mary Howell, MSN, CNS, CPNP, Pulmonary Nurse Coordinator

Barbara Oehler, RD, CF Dietician

Susan Mason, MSN, RN, PCNS, Cystic Fibrosis Nurse Coordinator, Asthma Nurse Coordinator

Angela Orlando, RN, PNP, Nurse Practitioner, Sleep Disorders

Bonnie Kallao, RN, Sleep Disorders Clinic Nurse Coordinator

Bridgette Thomas, Division Secretary

Diane Roth, RN, Sleep Disorder Clinic Nurse Coordinator

Eileen Kabance, RRT, Respiratory Therapist

Pat Lewis, RRT, Respiratory Therapist

Research Highlights

Dr. Gary Albers has participated in numerous multi-center clinical studies. Current projects include a study of the effectiveness of a new inhaled antibiotic for CF patients and he is the local PI for a Therapeutic Development Center of the CF Foundation.
Dr. Blake Noyes has participated in a number of multi-center studies in new therapeutic agents in asthma and cystic fibrosis. Dr. Noyes remains the local PI for the EPIC study, a study examining risk factors for the development of Pseudomonas aeruginosa infection in CF patients. He is the lead PI for CF newborn screening efforts in Missouri and Illinois. Dr. Noyes has an ongoing clinical interest in the diagnosis and treatment of children with vocal cord dysfunction.

Dr. Meena Murti recently completed her Sleep Medicine fellowship where she developed an interest in sleep disorders in pregnant women.

Dr. Shalini Paruthi is on the steering committee and a local site PI for the multicenter NIH sponsored CHAT study (A Randomized Controlled Study of Adenotonsillectomy for Childhood Sleep Apnea). This is the first randomized controlled trial to assess the effects of adenotonsillectomy versus watchful waiting with supportive care in children with obstructive sleep apnea. Outcomes to be assessed include cognition and behavior. Dr. Paruthi has an ongoing clinical interest in CPAP adherence in children.

Dr. Kurtis Sobush has initiated bench research projects pertaining to pediatric lung disease. He is the PI of the project “In Vivo Dynamic Assessment of Distal Airway Progenitor Cells In Mice”. This project focuses on the use of transgenic mouse models to study the distal airway epithelium following RSV inhalational airway injury. Additionally, Dr. Sobush multiple clinical/translational cystic fibrosis research interests as the local PI for a multi-center study titled “Bronchoalveolar Lavage Fluid (BALF) Specimen Bank and Microbiome Analysis in Children and Adults with and without Cystic Fibrosis”. He also is establishing a translational project pertaining to the use of umbilical cord blood in patients with cystic fibrosis to identify novel prognostic biomarkers through collaboration with the St. Louis Cord Blood Bank.

Dr. Robert Wilmott is involved in treating CF lung disease that is now in Phase III trials.

Dr. Jamie Wooldridge continues to expand her leadership role in the field of improving outcomes. As a member of the Clinical Care committee at the hospital, she has led an initiative to implement a respiratory therapist driven weaning protocol for bronchodilators and improve pediatric asthma outcomes. She continues to work with chronic illness care teams outside of pulmonary medicine to help develop quality improvement work throughout the hospital. Within the CF team, Dr. Wooldridge developed an initiative to improve the percentage of CF patients being seen every quarter as per CF Foundation care guidelines. The result of this work has improved quarterly follow up from the 40% up to 80% of patients meeting these guidelines. She is also working with a pediatric resident to track the efficacy of screening for CF related diabetes through OGTT. In addition, she has initiated a system to systemically evaluate and diagnose pulmonary exacerbations in CF patients. Her work with CF is supported by a grant from the CF Foundation. Dr. Wooldridge also remains a principal investigator within the Cystic Fibrosis Foundation Therapeutics Development Network. She is currently the investigator for 3 CF clinical trials. In addition, Dr. Wooldridge is a member of the Protocol Review Committee.

Publications


Honors and Other Academic Activities

**Gary Albers, MD**
Best Doctors in America
Excellence in Teaching from Housestaff
Instructor/Invited Lecturer, International Flexible Bronchoscopy Course, Cincinnati, Ohio; Madrid, Spain
Journal Reviewer
Journal of Pediatrics
Committees
Chair, Physician Task Force for the Ambulatory Practice, Cardinal Glennon Children’s Medical Center, 2005 – present
Medical Director Ambulatory Care Cardinal Glennon Children’s Medical Center
Member, University Medical Group, Governing Board
Member, University Medical Group Executive Committee
Member, Medical Executive Committee, Cardinal Glennon Children’s Medical Center
Member, Cystic Fibrosis Foundation Center Committee
Organizer
Teaching cooperative for Educating Haitian Pediatric Residents in Haiti

**Meena Murti, MD**
Member, American Academy of Sleep Medicine, Section Affiliation: Childhood Sleep Disorders & Development Section
Fellow of the American Academy of Pediatrics

**Blake Noyes, MD**
Honors: Best Doctors in America, 1994-present
Glennon Ambassador Award
Journal Reviewer
Journal of Pediatrics
Committees
Member, Respiratory Care Committee, Cardinal Glennon Children’s Medical Center
Member, Genetic Advisory Committee, State of Missouri
Chair, Finance Committee, Department of Pediatrics
Co-Chair, Clinical Care Committee, Department of Pediatrics
Member, Legal and Compliance Committee, University Medical Group, St. Louis University
Advisory Board, Gateway Chapter, Cystic Fibrosis Foundation

**Shalini Paruthi, MD**
Honors: Executive Board for the American Sleep Medicine Foundation
Reviewer for: Journal of Pediatrics, SLEEP, Journal of Clinical Sleep Medicine, Expert Review of Respiratory Medicine Committees
Institutional:
Pediatrics Department Strategic Planning Committee 2009-2012
Academic Portfolio Committee 2010-present
National:
1. American Academy of Sleep Medicine:
   a. Education Committee 2009-present
      i. Vice Chair 2011-2012
      ii. Chair 2012-2015
   b. Task Force: Question Writing for In-Service Training Exam for Fellows, 2012
      Member, CHAT Steering Committee. National Institute of Health 2008-2012

Kurtis Sobush, MD
Recipient of the NIH Loan Repayment Program Award 2010-2012
Committees
   Member, Research Sustainability Taskforce, SLU School of Medicine
   Member, Stem Cell Research Director Search, Department of Pediatrics
Mentorship
   Medical Student Summer Research Fellowship Program, SLU School of Medicine

Robert W. Wilmott, MD
IMMUNO Professor and Chair, Department of Pediatrics, Saint Louis University and Pediatrician in Chief,
Cardinal Glennon Children’s Medical Center, 2001 – Present
Best Doctors of America, Saint Louis Magazine, 2003- present
Volunteer physician at The Health Resource Clinic, Saint Louis University School of Medicine, 2002 - present
Recipient of the St. Luke’s Award for a “Faithful Healer” by Cardinal Glennon Children’s Medical Center, 2007
Editorial Board
   Associate Editor, Journal of Pediatrics, 1995-present
   Journal of Paediatric Respiratory Reviews, 2002 – present
Journal Reviewer
Committees:
   Member, Pediatric Assembly Planning Committee, American Thoracic Society 2001 – present
   Member, Governing Board, University Medical Group, 2001 - present
   Member, Executive Committee, University Medical Group, 2001 – present
   Member, Pediatric Pulmonology Credentials Committee, American Thoracic Society, 1998 – present
   Member, Long-Range Planning Committee, American Thoracic Society, 1998 – present
   Chair, Leadership and Career Development Subcommittee of the Long-Range Planning Committee, American Thoracic Society, 1999 – present
   Member, University Medical Group Board, Saint Louis University School of Medicine, 2001 – present
   Member, Dean Planning Advisory, Saint Louis University, 2001 – present
   Member, Medical Executive Committee, Cardinal Glennon Children’s Medical Center, 2001 – present
   Member, Super Medical Executive Committee, SSM Health Care, 2001 – present
   Member, Administrative Council, Cardinal Glennon Children’s Medical Center, 2001 – present
   Member, Executive/Chairman Meeting, Saint Louis University School of Medicine, 2001– present
   Member, Mentoring Program Planning Committee, 2003 – present
   Member, Board of Directors, SSM Health Care St. Louis, 2004 – present
   Chairman, University Medical Group Faculty Compensation Committee, 2005 – present
   Member, Curriculum Oversight Committee, Saint Louis University School of Medicine, 2005 – present
   Member, Faculty Credentials Committee, Saint Louis University, 2007– present
   Co-Chair, Internal Medicine Chair Search Committee, Saint Louis University, 2007 – 2009
   Member, America’s Best Children’s Hospitals Project, 2007
   Chairman, University Medical Group (SLUCare) Executive Committee, Saint Louis University School of Medicine, 2009- present
   Member, Executive Committee, Association of Medical School Pediatric Department Chairs, 2009
   Facilitator, New Chair Mentoring Program, American Medical School Pediatric Department Chairs
Jamie L. Wooldridge, MD
Nominated Best Teacher Award, Pediatric Subspecialty, Department of Pediatrics- 2012
Journal Reviewer:
   Journal of Pediatrics
   Pediatric Diabetes
Committees:
   Clinical Care Committee member- Department of Pediatrics
   Faculty Development Committee member- Department of Pediatrics
   CF Foundation TDN Protocol Review Committee

Presentations

Gary Albers, MD
"Interpretation of the Pediatric Chest Radiograph"- Saint Damien Hospital, Port au Prince, Haiti, August 2011
Series of educational presentations to residents and attending physicians at Hopital Universitat D’Etat Haiti (August 2011):
   • Lung Development
   • Vocal Cord Dysfunction
   • Cough in Children
   • Pneumonia and Complicated Parapneumonic Effusions
   • Interpretation of the Pediatric Chest Radiograph
   • Bronchoscopy in Children
   • Pulmonary Function Testing in Children
   • Wheezing in Children
   • Ventilator Management Basics in Children
   • Pediatrics Board Review

Blake Noyes, MD
Mississippi River Valley Pulmonary Conference, Webcast to 15 Academic Centers
“7 year old boy with abdominal pain and a chest mass”
St. Louis University School of Medicine, Internal Medicine Grand Rounds
“Towards a Cure for Cystic Fibrosis”
Physician Assistant Education, School of Allied Health, St. Louis University
“The evaluation and management of the child with cystic fibrosis”

Shalini Paruthi, MD
“Restless Legs Syndrome: A movement – responsive nocturnal focal akathisia with dysesthesia” Grand Rounds
Presentation to Department of Neurology, SLU, January 12, 2012
“Sleep Medicine and ADHD in Children: How Lack of Quality Sleep Can Be Misdiagnosed as Attention Deficit Hyperactivity Disorder” SSM Pediatric Sleep Symposium, February 28, 2012
“Adolescent Sleep” Grand Rounds Presentation to Department of Pediatrics, SLU, March 7, 2012.
“Basics of Pediatric Sleep” Guest Lecturer, Psychology 415-01: Science of Sleep, Saint Louis University, April 26, 2012
“Restless Legs Syndrome” Grand Rounds Presentation to Department of Family Medicine, SLU, May 16, 2012
“Academic Portfolio: Clinical Subsection” Academic Portfolio Workshop, Department of Pediatrics, SLU June 2, 2012
Kurtis Sobush, MD
“Labeling with Color and Fun: The Utility of Confetti Mouse Models in Airway Epithelial Research” Topics in Pathology Seminar, SLU Department of Pathology, 12-2011.
“Umbilical Cord Blood From Cystic Fibrosis Donors – A Possible Source of Prognostic Markers” Pediatric Research Colloquium, SLU Department of Pediatrics, 2-2012.

Robert W. Wilmott, MD
“UMG Compensation Plan” presented to the Department of Pediatrics and the Department of Internal Medicine faculty, Saint Louis University School of Medicine, St. Louis, MO

Jamie L. Wooldridge, MD
Instructor- Saint Louis University Sleep Medicine program- Motivational Interviewing retreat- May 2012.
Mississippi River Valley Pediatric Pulmonary Case Conference- “What the heck is that?” Pulmonary Masses- November 9, 2011.
Grand rounds- “Motivational Interviewing: How to work with the difficult patient”- October 19, 2011.
Lecture to Department of Pediatrics faculty- “Task Management- Getting things done while begin relaxed”- October 11, 2011.

Abstracts
Use of Inhaled Tobramycin as a Treatment of Cystic Fibrosis Pulmonary Exacerbation Lisa Lubsch, PharmD, AE-C, Amy Calson, PharmD, Gary Albers, MD, Eric Armbrecht, PhD
North American Cystic Fibrosis Conference October 2011

Reedy K, Paruthi S. Sleep Terrors Resolved with Ferrous Sulfate Treatment: A Case Report
Presented at Pediatric Science Days, Saint Louis University, April 2012.


Grants
Cystic Fibrosis Foundation Therapeutics, Incorporated
Gary Albers, MD-Principal Investigator
Cystic Fibrosis Therapeutics Development Center

MPEX
Gary Albers, MD-Local PI. A Phase 3, multicenter, multinational, randomized, double-blind, placebo controlled study to evaluate the efficacy and safety of MP-376 (levofloxacin aerosol solution; AEROQUIN™) in stable cystic fibrosis patients. Protocol: MPEX-207
| **Cystic Fibrosis Foundation** |
| Blake Noyes, MD – Principal Investigator  
The EPIC observational study: Longitudinal assessment of risk factors for and impact of *Pseudomonas aeruginosa* acquisition and early anti-pseudomonal treatment in children with CF  

**Genetics Program, Newborn Cystic Fibrosis, State of Missouri**  
Blake Noyes, MD—Principal Investigator  

| **Cystic Fibrosis Foundation Center Grant** |
| Blake Noyes, MD – Principal Investigator  

| National Heart, Lung, and Blood Institute (NHLBI) | 2009-2013 | $33,000  |
| National Institutes of Health (NIH)  |
| **Shalini Paruthi, MD** - Co-Principal Investigator  
A Randomized Controlled Study of Adenotonsillectomy for Childhood Sleep Apnea (CHAT)  

| National Center on Sleep Disorders Research (NCSDR) |
| National Heart, Lung, and Blood Institute (NHLBI) |
| National Institutes of Health (NIH)  |
| **Shalini Paruthi, MD** - local PI  
Adenotonsillectomy for Childhood Sleep Apnea (CHAT).  

| **Cystic Fibrosis Foundation Therapeutics, Incorporated** |
| Kurtis Sobush, MD – local PI  
Bronchoalveolar Lavage Fluid (BALF) Specimen Bank and Lower Airway Microbiome Analysis in Children and Adults with and without Cystic Fibrosis (ZEMANI11A0)  

| **Cystic Fibrosis Foundation** |
| Jamie Wooldridge, MD - Principal Investigator  
Accelerating the Rate of Improvement in CF care grant “Consistent Application of Care Guidelines to Improve Lung Function in CF”  

| **CF Foundation Therapeutic Development Network** |
| Jamie Wooldridge, MD - Principal Investigator  

| **CF Foundation Therapeutic Development Network** |
| Jamie Wooldridge, MD - Principal Investigator  
Baby Observational and Nutritional Study - (BONUS-IP-11)  

| **Gilead Sciences, Inc** |
| Jamie Wooldridge, MD - Principal Investigator  
Open-Label Phase 2 Trial to Evaluate the Safety and Efficacy of Aztreonam 75 mg Powder and Solvent for Nebulizer Solution/Aztreonam for Inhalation Solution (AZLI) in Pediatric Patients with Cystic Fibrosis (CF) and New Onset Lower Respiratory Tract Culture Positive for *Pseudomonas aeruginosa* (PA) Study.  
# GS-US-205-0162.  

---

118
Division of Toxicology

Annual Report 2011-2012

DEPARTMENT INFORMATION
The Division of Toxicology within the Department of Pediatrics at Saint Louis University School of Medicine is part of SLUCare, SSM Cardinal Glennon Children’s Medical Center and the Missouri Poison Center (MPC). The Division also serves Saint Louis University Hospital.

INTRODUCTION AND DESCRIPTION
The Division of Toxicology is composed of two physician medical toxicologists: Anthony Scalzo, MD, Division Director, and Rebecca Tominack, MD. In addition, a forensic and environmental toxicologist Christopher Long, PhD and two clinical pharmacists Julie Weber, BS Pharm, RPh, CSPI and Shelly Enders, Pharm D, CSPI are supported by a specialized professional staff of 25 nurses and pharmacists. The main purposes of the division are: 1) to assist the MPC in providing quality-assured triage and treatment information on toxic exposures and poisonings to all the hospitals, practitioners and public in the state of Missouri; 2) to provide direct or telephone consultation to physicians caring for poisoned patients; and 3) to educate health care professionals and the public about toxicology and related issues. In the past year we managed 58,400 human exposures including numerous toxicology consultations for critically poisoned adults and children. There were 634 medical toxicology consults on patients during the time period and Dr. Scalzo consulted on 347 of these with 51 bedside consultations at Cardinal Glennon and SLU Hospital. Medical toxicology consultation is accessed by first calling the specialists at the Poison Center who can contact one of the physician toxicologists on call. Consultation ranges from simple triage advice to complex toxicology information and medical management.

Dr. Scalzo’s research has included tracking synthetic cannabinoid and hallucinogenic stimulant bath salt exposures through the Missouri Poison Center. He has provided advocacy testimony to the State of Missouri to assist in drafting of legislation to ban these products. Dr. Scalzo also provided testimony to the US Senate and this aided the drafting of the Synthetic Drug Abuse Prevention Act of 2012.

The Division of Toxicology maintains a strong commitment to education. For Saint Louis University School of Medicine, the toxicologists provide 8 hours of toxicology lecture and case discussions in the first year curriculum and teach toxicology in a lecture cycle throughout the year for third year medical students. Two entire master’s level courses (3 credit hours each) in Human Toxicology and Environmental Toxicology at the School of Public Health are taught as well as topics in occupational dermatology and ergonomics for second year medical students. Dr. Scalzo provided Advanced Hazmat Life Support (AHLS) training for our MPC specialists as well as physicians, nurses and paramedics in the community.

The Division of Toxicology and MPC also serve the community with poisoning prevention and education efforts for the public as well as seminars and invited lectures at conferences and symposia around the state of Missouri. A full-time public educator, Peggy Kinamore, RN, BSN, CSPI, networks statewide through the county health departments, schools and other coalition partners to speak to parents, child care providers, teachers and community groups to promote poisoning prevention and safety. With the assistance of these partners, a total of 187 presentations were made. Included in these presentations were smoking prevention programs offered by Dr. Scalzo as he entered his 17th year in training over 10,000 sixth graders regarding the dangers of tobacco while mentoring pediatric residents in community service.
Faculty Profiles

Anthony J. Scalzo, MD, FAAP, FACMT, FAACT, Professor, Director, Division of Toxicology, Research Faculty, Division of Pediatric Emergency Medicine, Medical Director, Missouri Poison Center

Interests: Cardiovascular toxins and emergencies, lead poisoning, inhalant abuse and prevention, smoking and nicotine addiction prevention, legal and illegal substance abuse including synthetics, antivenom for snake envenomation, gastrointestinal decontamination. National committee leadership as Chair, American Academy of Clinical Toxicology Fellowship Committee; Chair, Acute & Intensive Care Special Interest Group (Committee) for the American Academy of Clinical Toxicology. As Chair of AACT Acute & Intensive Care Dr. Scalzo has been responsible for selecting and coordinating controversial or difficult cases in toxicology to be presented by Fellows and discussed by an expert panel at our national scientific meeting NACCT (1997 to present) including a major 2 hour symposium on September 25, 2011 in Washington, DC.

Board Certification: Pediatrics; Pediatric Emergency Medicine; Medical Toxicology
Medical College: Saint Louis University School of Medicine
Residency: Saint Louis University School of Medicine, SSM Cardinal Glennon Children’s Medical Center
Fellowship: Toxicology mini-fellowships, practice credentialing for boards

Rebecca L. Tominack, MD, FAACT, FACMT, Adjunct Professor, Division of Toxicology, Adjunct Professor of Community Health, School of Public Health, Assistant Medical Director, Missouri Poison Center

Interests: Herbicides, pesticide formulations, industrial and occupational toxicology, hazardous materials toxicology, risk assessment, non-lethal weapons, medical writing and editing

Board Certification: Internal Medicine; Medical Toxicology
Medical College: University of Maryland
Residency: University of Maryland (Internal Medicine)
Fellowship: NIH (virology research), University of Virginia (Clinical Pharmacology and Toxicology)

Christopher Long, PhD, DABFT, Director, Forensic and Environmental Toxicology Laboratory, Saint Louis University

Interests: Forensic death investigation and poisonings; synthetic drugs and bath salts analysis by gas chromatography mass spectrometry

Board Certification: Forensic Toxicology, American Board of Forensic Toxicology
College: PhD, St. John’s University, New York, New York

Julie A. Weber, BS Pharm, CSPI, Director, Missouri Poison Center and SSM Health and Wellness Line, Adjunct Clinical Instructor in Pharmacy St. Louis College of Pharmacy, Certified Specialist in Poison Information (CSPI)

Interests: Multi-center research, training and staff development, EPA-FIFRA regulations and reporting, industrial contract management, quality assurance, emergency preparedness, technology advancement for contact centers.

Board Certification: Missouri State Board of Pharmacy, Illinois State Board of Pharmacy, Certified Specialist in Poison Information (CSPI); Credentialed as a candidate for the American Board of Applied Toxicology (ABAT)
College: St. Louis College of Pharmacy
Shelly Enders, Pharm D, Certified Specialist in Poison Information (CSPI) Missouri Poison Center at SSM Cardinal Glennon Children’s Medical Center

Interests: Development of triage guidelines for poisoning exposures, responsible for writing poisoning fatality reports for NPDS (National Poisoning Data System), national data base of the American Association of Poison Control Centers

College: St. Louis College of Pharmacy, BS Pharm, St. Louis College of Pharmacy, Doctor of Pharmacy

Peggy Kinamore, RN, BSN, Public Education Coordinator, Certified Specialist in Poison Information (CSPI) Missouri Poison Center at SSM Cardinal Glennon Children’s Medical Center

Interests: Missouri Poison Center at SSM Cardinal Glennon Children’s Medical Center

Board Certification: Missouri State Board of Nursing, 1982 to present; License and registration number 073402; Certified Specialist in Poison Information AAPCC, 1981 to present

College: Saint Louis University

Staff
LalJohnna White, Administrative Assistant
Issa Shahin, Technology Special Projects Coordinator

RESEARCH HIGHLIGHTS

Dr. Scalzo collaborated with Dr. Chris Long, PhD, Forensic Toxicology at Saint Louis University, Julie Weber, BS Pharm, RPh, CSPI, Dr. Chris Rosenbaum, MD, Medical Toxicology, University of Massachusetts, and Dr. Amanda Jenkins, PhD, Forensic Toxicology, University of Massachusetts to study the clinical effects seen with recreational use of synthetic cannabinoids JWH018 and JWH073 and to detect these cannabinoids in urine utilizing a newly developed and validated technique in Gas Chromatograph/Mass Spectrophotometry. Dr. Scalzo, senior author, presented an abstract (poster) on K2 and synthetic cannabinoids in September of 2011 at NACCT in Washington, DC.

Dr. Scalzo, Dr. Long, Julie Weber, BS Pharm, RPh, CSPI, Dr. Jeffrey Spencer and Dr. Liza Halcomb from Washington University collaborated on a poster presented at NACCT 2011 in Washington, DC in September 2011 on the acute psychiatric, cardiovascular and neurological toxicity of bath salts. Dr. Long detected methylenedioxyxymvaleronone (MDPV) a key hallucinogenic stimulant in these exposures to bath salts.

Dr. Kevin Germino, PEM Fellow, Dr. Scalzo and Julie Weber had a poster presented in September 2011 at NACCT in Washington, DC on a 10 year experience with dextromethorphan abuse and overdose.

Dr. Scalzo has mentored a former Fellow, Kathy Lehman-Huskamp, MD, and now attending physician in a research project in disaster medicine and Advanced Hazmat Life Support course providing toxic exposures education for specialists in poison information. Grants from the Missouri Hospital Association facilitated some of these teaching activities. Dr. Scalzo will continue to mentor Dr. Lehman-Huskamp, MD for an approved IRB study which will be conducted nationwide to study SPIs and CSPIs abilities in disaster preparedness.

Dr. Scalzo and Dr. Gerard continued along with our PEM Fellow Colleen Braun the research in a multi-center research consortium POISE (Patient Outcomes In Simulation Education). The POISE group selected Saint Louis University and Cardinal Glennon to be the site to do a validation study for the a Just-in-Time training of interns in pediatric programs for performing lumbar puncture in infants using a Laerdal infant LP simulator. This study was ongoing in 2011 and an abstract was presented by Dr. Braun in Toulouse, France on October 26-27, 2011 at the International Pediatric Simulation Symposia and Workshops (IPSSW).
Dr. Scalzo used toxicology simulation cases in the Saint Louis University Simulation Laboratory to assist in training residents. Dr. Scalzo developed and updated clinical scenarios for use in the national scientific meetings in toxicology, NACCT held September 23, 24, 25, 2011 in Washington, DC. This 3 day course received CME credits after a successful pilot course in Denver, CO the prior year. He recruited faculty to assist him in teaching this course from several universities including University of Pittsburgh Medical Center, Robert Wood Johnson School of Medicine, New York University and Johns Hopkins School of Medicine.

Dr. Scalzo developed along with Linda Haycraft, RN, MSN, Director of the School of Nursing Simulation Laboratory and Dr. Greg Smith, PhD, Assistant Dean School of Medicine, a simulation project involving interdisciplinary training of senior medical students and senior nursing students. The simulations emphasized communication skills using SBAR and within the details of the 3 simulations studied, medication issues and effects were discussed. A poster on this research was presented at the International Meeting on Simulation in Healthcare (IMSH), January 27 to February 1, 2012 in San Diego, California on lessons learned from the simulation cases and faculty evaluation process of the medical and nursing students.

PUBLICATIONS


HONORS
Anthony J. Scalzo, MD
Best Doctors in St. Louis, 2011 and 2012

Julie A. Weber, BS Pharm, RPh, CSPI
SSM Cardinal Glennon Children’s Medical Center: Top Performing Teams, 2011-12.

PRESENTATIONS


Scalzo AJ: Toxicology Course (8 x 1 hour lectures covering field of Toxicology from Hepatic to Renal to Neurological Principles and specific overdoses and toxic exposures). Principles of Pharmacology Module, Fundamentals of Biomedical Sciences, Saint Louis University School of Medicine. St. Louis, MO, May 2012.


Scalzo AJ: From k2 to Bath Salts to “Sizzurp”. Missouri Emergency Medical Services Alliance (MEMSA) Annual Conference, Lake Ozarks, MO, April 17, 2012

Scalzo AJ, Tominack RL: Toxicology Elective Core Lectures (Dr. Scalzo 6 lectures; Dr. Tominack 2 lectures). Missouri Poison Center, St. Louis, MO, April 2 to April 27, 2012.


Scalzo AJ: “Pediatric Emergencies & Trauma” (2 lectures). Physician Assistant Department. Saint Louis University, Saint Louis, MO, December 6, 2011.

Scalzo AJ: “Toxicologic Emergencies”, PACTS for Life/PALS course, SSM Cardinal Glennon Children’s Medical Center/Saint Louis University School of Medicine, November, 2011


Scalzo AJ: “Toxicology 1”. SSM Cardinal Glennon Children’s Medical Center/Saint Louis University School of Medicine, July 12, 2011.

Scalzo AJ: “Stabilizing the Acutely Ill Child”. SSM Cardinal Glennon Children’s Medical Center/Saint Louis University School of Medicine, 6 lectures in 2011-2012.

Tominack RL: “Review of Medical Toxicology Principles,” SSM Cardinal Glennon Children’s Medical Center, 6 lectures in 2011-2012.
Tominack RL: EOH 510 Introduction to Toxicology; Masters Level, 3 credit, 37 lecture-hours, 2011-2012
Tominack RL: EOH 511 Environmental Toxicology; Masters Level, 3 credit, 37 lecture hours, 2011-2012.


Weber JA: “Toxidromes and the Poisoned Patient; Certified Specialist in Poison Information Exam Review Series, MPC at Cardinal Glennon Children’s Medical Center, St. Louis, MO, January 18, 2012

Weber JA: "Pediatric Toxicology", Physician Assistant core lecture series, Saint Louis University, December 6, 2011.


Weber JA: “Toxicologic Emergencies”, PACTS for Life/PALS course, SSM Cardinal Glennon Children’s Medical Center/Saint Louis University School of Medicine, 4 lectures 2011-2012

Long C: “Forensic Toxicology” at Medicolegal Death Investigators Training Course, Saint Louis University, Learning Resources Center, St. Louis, MO, January 9-13, 2012; March 12-16, 2012.


Long C: Clinical Laboratory Specialists Rotation for SLU Hospital, St. Louis, MO, 2011-2012.

Long C: Introduction to Forensic Toxicology for Pathology Residents, St. Louis, MO, 2011-2012.

Long C: Introduction to Toxicology: Forensic Pathology Elective, St. Louis, MO, 2011-2012.

GRANTS
Health Resources and Services Administration (HRSA)
Poison Control Centers Stabilization and Enhancement Grant
Grant year 3 (9/1/10 to 8/31/11) $531,685
Grant year 4 (9/1/11 to 8/31/12) $382,829
Grant year 5 (9/1/12 to 8/31/13) $323,619
WE HAVE THE BEST DOCTORS IN ST. LOUIS!

Congratulations to the following members of the Department of Pediatrics
2012 Best Doctors list as compiled by St. Louis Magazine

Allergy / Immunology
Alan Knutsen, MD

Critical Care
Teresa Andreone, MD
Jeremy Garrett, MD
Robert Ream, MD

Emergency Medicine
John Peter, MD

Gastroenterology
Thomas Foy, MD
Jerry Rosenblum, MD
Jeffrey Teckman, MD

Hematology / Oncology
William Ferguson, MD

Medical Genetics
Stephen Braddock, MD

Neonatology
Robert Fleming, MD
William Keenan, MD
Farouk Sadiq, MD

Toxicology
Anthony Scalzo, MD

Cardiology
Burt Bromberg, MD
Saadeh Jureidini, MD
Kenneth Schowengerdt, MD
Angela Sharkey, MD

Dermatology
Elaine Siegfried, MD

Endocrinology
David Dempsher, MD
Sherida Tollefsen, MD

General Academic Pediatrics
M. Susan Heaney, MD
Jay Noffsinger, MD

Infectious Diseases
Stephen Barenkamp, MD
Dennis O’Connor, MD

Nephrology
Craig Belsha, MD
Ellen Wood, MD

Pulmonology
Gary Albers, MD
Blakeslee Noyes, MD
Robert Wilmott, MD