Saint Louis University
Department of Pediatrics
Welcome to the 2013 – 2014 Annual Report. Each of the 138 faculty members of the Saint Louis University School of Medicine (SLUSOM) Department of Pediatrics brings much to our shared endeavor. We are especially delighted to welcome thirteen outstanding new faculty members to the Department in 2013-14:

- Mohamed Abdel-Baki, MD, Hematology/Oncology
- Colleen Claassen, MD, Neonatology
- Meghan Coghlan, MD, Neonatology
- Kathryn Converse, MD, Allergy/Immunology
- Leili Dolatshahi, MD, Hematology/Oncology
- Jason Garnreiter, MD, Cardiology
- Renee Manley-Markowski, MD, Emergency Medicine
- Jaime Velasco Masson, MD, Emergency Medicine
- Shakir Mohamed, MD, Neonatology
- Helen Pappa, MD, Gastroenterology
- Nadeem Qureshi, MD, Emergency Medicine
- Margaret Siska, MD, Endocrinology
- Aline Tanios, MD, General Academic Medicine – Hospitalist Medicine

As one of the largest clinical departments in the School of Medicine with a strong external focus, our faculty – new and continuing – have a significant impact on child health in the community.

Of course, none of this would be possible without our partnership with SSM Cardinal Glennon Children’s Medical Center and its corporate parent, SSM Health Care. Glennon is the site for the bulk of our clinical activity. Its CEO Sherlyn Hailstone has worked tirelessly to make sure that physicians’ voices are heard, and SSM has continued to assure that Cardinal Glennon is a place where patients and families feel truly cared for and where physicians have the latest in technology at their fingertips to provide cutting-edge care. In the past year this has included initiatives as diverse as a new, state-of-the-art PICU featuring 18 rooms with 21 beds in an expanded, redesigned and renovated 20,500 square foot space, as well as a new, 23’ long yellow submarine located at the entrance to the Costas Center and the addition of the “Rally Squirrel” safety treehouse in the level 1 Dan Dierdorf Emergency and Pediatric Trauma Center.

Our commitment to original research continues to grow with over 75 publications and 96 abstracts by 42 faculty members in 2013-14. This represents research supported by 36 open active grants with 24 investigators, $8.1 M in grants from the National Institutes of Health, the Centers for Disease Control and Prevention, the American Academy of Pediatrics, the Glennon Foundation, and many other national and regional foundations and entities, both public and private, dedicated to research into specific disease processes and health maintenance.

Teaching is the core of what we do as a department at SLUSOM. Pediatrics enjoys an excellent reputation as a top-rated clerkship serving 175 third-year medical students per year, as well as fourth-year students on
elective, and many students visiting from other schools. Our Pediatric residency matched fully with a cadre of exceptional candidates, despite increasing the first-year class to 14 in Categorical Pediatrics and adding two residents per year for Pediatric Neurology.

The size of a report such as this may tempt the reader to skim it and put it aside because there is simply so much to digest. However, every line, every publication, every program recorded in this document represents untold hours of work for the benefit of today’s and future generations of children. SLUSOM is, of course, one of only four Jesuit medical schools in the United States. We of the Department of Pediatrics are proud that our work strives to exemplify the unofficial motto of the Jesuits: “Men and women for others.”

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

The goals of the Division of Adolescent Medicine were 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 provided 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, particularly eating disorders. Seven outpatient clinics a week were staffed. There was daily and weekend inpatient availability for consultation and hospitalization. Ongoing medical care was provided to the youths at two local model Division of Youth Services facilities and supervisory care was provided to all residential and outpatient sites in the region. A long standing unique program at Glennon for treatment of individuals with eating disorders offered medical care and coordinated 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 was on medical refeeding and stabilization of psychiatric status. Outpatient clinics were staffed in the Ambulatory Care Clinic, Danis Pediatric Clinic, Glennon at St. Lukes Hospital and the Division of Youth Services.

The division provided educational opportunities to medical students and residents and participated 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 spent a month with the division working with both inpatients and outpatients. Lectures were provided for residents and medical students as part of the undergraduate and pediatric training programs. As part of the undergraduate teaching of self care for medical students, Yoga practice was offered weekly by one of our faculty. Talks were presented on puberty to local schoolchildren and their parents. Collaborative research with the department of Nutrition at St. Louis University was completed, resulting in a thesis entitled “Fruit and Vegetable Intake and Cardiovascular Risk Disease Risk Factors of Incarcerated Male Adolescents” and changes in the diet presented to incarcerated adolescents at local centers.

The year 2013-2014 showed maintenance of the clinical improvements initiated in the previous year. Liaisons with psychology, nutrition, and psychiatry were maintained and facilitated, though the medical leave of our psychiatrist required some adjustments in inpatient and outpatient care. Regular reviews of quality measures and missed appointments continued. Rapid inpatient refeeding practices continued and resulted in shorter inpatient stays without rapid rehospitalizations. Individual physicians were nominated for Ambassador’s Choice Awards.
FACULTY PROFILES

Victoria Cornelius, MD
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
Special Interests: Parenting of teens, growth and development, Vitamin D and lipids 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
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
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

NURSE PRACTITIONER

Tara Hommelson, BSN, MSN, CPNP (as of January, 2014)
Special Interests: Normal growth and development
Board Certification: Pediatrics
College: Maryville University, BSN
Nursing School: University of Missouri St. Louis, MSN

STAFF

Theresa Forsythe
Medical Secretary
PUBLICATIONS

No publications in this calendar year.

PRESENTATIONS (Only those given outside of Cardinal Glennon are listed).

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

HONORS

Marianne Dunstan, MD nominated for Third Annual Ambassador’s Choice Award

Dianne Elfenbein, MD nominated for Third Annual Ambassador’s Choice Award

GRANTS

No grants in this calendar year.
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

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 (Combined Pediatrics and Internal Medicine)
Fellowship: University of Pennsylvania/Children’s Hospital of Philadelphia

Kathryn D. Convers, MD, FAAAAI

Research Interests: Asthma, allergic rhinitis, immunodeficiency disorders
Board Certification: Pediatrics; Internal Medicine; Allergy & Immunology
Medical College: Poznan University of Medical Sciences
Residency: Saint Louis University (Combined Pediatrics and Internal Medicine)
Fellowship: Saint Louis University

Alan P. Knutsen, MD, FAAAAI

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

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

FELLOWS

Anilkumar Katta, MD

Fellowship: July 1, 2012 to June 30, 2014
Private practice Boston, MA
Michael Ansstas, MD  
Fellowship: July 1, 2012 to June 30, 2014  
VA St Louis, MO

Josie Lorbert, MD  
Fellowship: July 1, 2013 to June 30, 2015

Carrie Caruthers, MD  
Fellowship: July 1, 2014 to June 30, 2016

Jonathan Rodrigues, MD  
Fellowship: July 1, 2014 to June 30, 2016

RESEARCH COORDINATOR AND CLINICAL NURSES

Christine Fultz, RN  
Amanda Kerley, RN  
Kelly Allison, RN  
Wendy Sanders, RN

PUBLICATIONS


8. Knutsen AP. Cartilage hair hypoplasia. eMedicine (original 3:1-9, 2002); March 31, 2014


(Allergy and Immunology continued…)

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**ABSTRACTS**

1. Rodrigues J, Sycamore K; **Knutset A**, Jain AK. Lymphocytic esophagitis and celiac disease presenting after coin impaction: An incidental, exclusive or concomitant disease?


3. Caruthers C, Vitale J, **Warrier M**. A Curious Cough. Accepted to American College of Allergy, Asthma & Immunology 2014 Annual Meeting.

**HONORS AND OTHER ACADEMIC ACTIVITIES**

**Bradley A. Becker, MD**

Assistant Allergy & Immunology Fellowship Training Program, Saint Louis University, 2013 – present; 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
- Board Member, 2013 – present
- Food Allergy Committee member, 2013 - present
- Programming Committee, 2007-2013

Asthma Quality Care Committee, SSM Cardinal Glennon Children’s Medical Center, 1996 - present

**Alan P. Knutset, MD**

Best Doctors in America – 2005-14

*Editorial Board*
- Pediatric Asthma Allergy Immunology
- Journal of Allergy
- The Open Pediatric Medicine Journal

*Journal Reviewer*
- Allergy
- American Journal of Respiratory and Critical Care Medicine
- Blood
- Chest
Committees
AAAA&I
- Member AAAA/I Training Program Directors
- Allergic Fungal Lung Diseases Task Force, 2009-12
- Allergic Fungal Lung Diseases Committee – 2011-present
Clinical Immunology Society
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
- “Food Allergy 101: Eosinophilic Esophagitis”, Panel Discussion for the St. Louis Community, AAFA St. Louis Chapter, Saint Louis, MO 9-17-14.

Alan P. Knutsen, MD
- “B cell PIDD”, Huron Valley Sinai Hospital, Commerce Township, MI, 6-7-2013
- “B cell PIDD”, Cincinnati Allergy Society, Cincinnati, OH, June 12, 2013
- “Gammaglobulin Therapy in Immunodeficiency” 3rd Annual JMF Conference Primary Immunodeficiency, St. Louis, MO 6-6-2013
- “Managing Sinus Issues”, Immune Deficiency Foundation, St. Louis, MO 11-2-2013
- “Diagnosis and Management of Non-Infections Pulmonary Diseases in B Cell PIDD”, 4th Annual JMF Conference Primary Immunodeficiency, St. Louis, MO 5-2-2014

Manoj R. Warrier, MD
- “Food Allergy”, SLU Physician Assistant (PA) students, 10/22/2014

GRANTS

- Project ARK (AIDS/HIV Resources for KIDS)
  Source: Ryan White Title IV
  PI: Gregory Storch, MD (Washington University)
  Period: 8-1-08 to 7-31-15

- Primary Immune Deficiency Treatment Consortium
  Source: NIH U54 AI082973
  PI: Morton Cowan MD
Center PI: Alan P. Knutsen MD  
Period: 8-1-2009 – 7-31-14, renewed 8-1-2014 – 7-31-2019

**Jeffrey Modell Diagnostic & Research Center**
Jeffrey Modell Diagnostic Center for Primary Immunodeficiencies  
Source: Jeffrey Modell Foundation  
Center PI: Alan P. Knutsen MD  
Period: 6-1-2010-on-going

- **Streptococcus pneumoniae antibody titers in B Cell Primary Immunodeficiency Disorders (PIDD) Patients Receiving IVIG versus SCGG**  
  Sponsor: CSL Behring  
  PI: Alan P. Knutsen, MD  
  Period: 5-1-2014 to 3-28-2015

- **Astra Zeneca Protocol, A 26 week, randomized, double-blind, parallel-group, active controlled, multicenter, multinational safety study evaluation the risk of serious asthma-related events during treatment with Symbicort, a fixed combination of inhaled corticosteroid (ICS) (budesonide) and a long acting B2-agonist (LABA) (formoterol) as compared to treatment with ICS (budesonide) alone in adult and adolescent (>12 years of age) patients with asthma**  
  Sponsor: AstraZeneca Pharmaceutical  
  PI: Alan P. Knutsen, MD  
  Period: 11/5/13 – 11/14/15

- **Baxter Protocol #170904, A Clinical Study of Immune Globulin Subcutaneous (Human), 20% Solution (IGSC 20%) for the Evaluation of Efficacy, Safety, Tolerability, and Pharmacokinetics in Subjects with Primary Immunodeficiency Diseases**  
  Sponsor: Baxter Pharmaceutical  
  PI: Alan P. Knutsen, MD  
  Period: 09/04/13 – 09/30/15

- **A Phase III, Randomized, Double-Blind, Placebo-Controlled Study to Assess the Efficacy, Safety, and Tolerability of Lebrikizumab in Adolescent Patients with Uncontrolled Asthma who are on Inhaled Corticosteroids and a Second Controller Medicine**  
  Sponsor: F. Hoffmann-La Roche Ltd (Genentech)  
  PI: Alan P. Knutsen, MD  
eRS #61616

**SUBMITTED RESEARCH SUPPORT**

- **HLA-DR/HLA-DQ in Mold-sensitive children with moderate-severe persistent asthma**  
  Sponsor: Genentech  
  PI: Alan P. Knutsen, MD

- **PBT-01-IVIG**  
  Sponsor: Atlantic Research Group  
  PI: Alan P. Knutsen, MD
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 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.

A state-of-the-art electrophysiology lab houses equipment for performing computer-assisted electrophysiologic studies and catheter ablation procedures. Treatment of complex rhythm disorders and pacemaker therapies are available.

Specialized cardiac imaging (cardiac CT and MRI) is performed in the imaging center connected to the Dallas Heart Center.

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.

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.

Beginning in July, 2014 an accredited Pediatric Cardiology fellowship training program was instituted.

The Division of Pediatric Cardiology has been recognized nationally, and is currently ranked number 33 in the nation for Cardiology and Heart Surgery by *U.S News and World Report*.

### FACULTY PROFILES

<table>
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Saar Danon, MD</td>
<td>Assistant Professor of Pediatrics</td>
</tr>
<tr>
<td>Special Interests</td>
<td>Interventional cardiac catheterization, device development</td>
</tr>
<tr>
<td>Board Certification</td>
<td>Pediatric Cardiology</td>
</tr>
<tr>
<td>Medical College</td>
<td>University of California at Los Angeles School of Medicine</td>
</tr>
<tr>
<td>Residency</td>
<td>Cedars-Sinai Medical Center, Los Angeles, CA</td>
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<tr>
<td>Fellowship</td>
<td>University of California at Los Angeles School of Medicine</td>
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<tr>
<td>Jason Garnreiter, MD</td>
<td>Assistant Professor of Pediatrics; Director of Electrophysiology</td>
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<tr>
<td>Special Interests</td>
<td>Pediatric arrhythmias and ablation therapy</td>
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<tr>
<td>Board Certification</td>
<td>Pediatrics; Pediatric Cardiology</td>
</tr>
<tr>
<td>Medical College</td>
<td>Case Western Reserve University School of Medicine, Cleveland, OH</td>
</tr>
<tr>
<td>Residency</td>
<td>University Hospitals of Cleveland Rainbow Babies and Children’s Hospital, Cleveland, OH</td>
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<tr>
<td>Fellowship</td>
<td>University of Utah Primary Children’s Medical Center, Salt Lake City, UT</td>
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<tr>
<td>Susan Haynes, MD</td>
<td>Assistant Professor of Pediatrics</td>
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<tr>
<td>Special Interests</td>
<td>Etiology of atrial septal occluder erosions</td>
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<tr>
<td>Board Certification</td>
<td>Pediatrics; Pediatric Cardiology</td>
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<tr>
<td>Medical College</td>
<td>Medical University of South Carolina, Charleston, SC</td>
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<tr>
<td>Residency</td>
<td>University of South Alabama, USA Children’s &amp; Women’s Hospital, Mobile, AL</td>
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<tr>
<td>Fellowship</td>
<td>University of Iowa Children’s Hospital, Iowa City, IA</td>
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<tr>
<td>Saadeh B. Jureidini, MD</td>
<td>Professor of Pediatrics and Director of Interventional Cardiology</td>
</tr>
<tr>
<td>Special Interests</td>
<td>Echocardiography with particular emphasis on assessment of the coronary arteries by echocardiography, pulmonary hypertension, cardiac imaging, interventional cardiology</td>
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<tr>
<td>Board Certification</td>
<td>Pediatrics; Pediatric Cardiology</td>
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<tr>
<td>Medical College</td>
<td>Baghdad University School of Medicine</td>
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<tr>
<td>Residency</td>
<td>American University of Beirut Hospital and King Faisal Specialist Hospital and Research Center</td>
</tr>
<tr>
<td>Fellowship</td>
<td>Medical College of Georgia</td>
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<td>Name</td>
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<tr>
<td>Wilson King, MD</td>
<td>Assistant Professor of Pediatrics</td>
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<tr>
<td>Renuka Peterson, MD</td>
<td>Assistant Professor of Pediatrics and Director of Echocardiography</td>
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<tr>
<td>M. Babak Rahimi, MD</td>
<td>Associate Professor of Pediatrics</td>
</tr>
<tr>
<td>Kenneth Schowengerdt Jr., MD</td>
<td>Wieck-Sullivan Professor of Pediatrics</td>
</tr>
<tr>
<td>Angela Sharkey, MD</td>
<td>Professor of Pediatrics, Associate Dean, Faculty Affairs and Professional Development</td>
</tr>
</tbody>
</table>
Jamie Sutherell, MD
Assistant Professor of Pediatrics
Director, Pediatric Medical Student Education
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, Medical Center, 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 Spillane, RN
Shannon Holloran, RN
Elizabeth Eller, RN
Pamela Helfrich Ameis, RN
Janet Modde, RN
Kim McHenry
Cheryl Doeschot
Vesna Hajric
Keli Murawski, PNP
Barb Kountzman, RN (CTS)
Stephanie Morrow, PNP

ECG/HOLTERS

Terra Hollins
Barry Rolland

CARDIAC CATHETERIZATION LABORATORY

Kathy Tinker, LPN
Lynn Hauver, RN
Jodie Hundley, RN
Beth Price, RN
Lisa Bade, RT
Linda Payne, RN
Erin Heidemann, RN
ECHO LAB

Cindy Marino, RDCS
Chrissy Gee, RDCS
Lisa Hohmann, RDCS
Ermina Keric, RDCS
Mike Patterson, RDCS
Dave Bash, RCCS
Kim Clemens, RDCS

PACS COORDINATOR

Gary Stevens, RT

PUBLICATIONS


**HONORS AND OTHER ACADEMIC ACTIVITIES**

**Jureidini, SB**: Best Doctor’s in America / Best Doctor’s in St. Louis; 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, Annals of Thoracic Surgery


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

**Sutherell, J**: 2014 Gold Humanism Honor Society Award, Arnold P. Gold Foundation.

**PRESENTATIONS**


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 PROFILES

Timothy J. Kutz, MD

Associate of Professor Pediatrics, Director

Interests: 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

Linda J. Shaw, MD, MSSW

Adjunct Associate Professor, Pediatrics

Interests: Child Maltreatment; Prevention of Sexual Abuse
Board Certified: Pediatrics; Child Abuse Pediatrics
Medical School: University of Maryland School of Medicine
Residency: University of Washington School of Medicine/Children’s Orthopedic Hospital and Medical Center

NON-FACULTY PROFILES

Cara Christianell, MSN, RN, CPNP

Nurse Practitioner and 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
Deborah Throne, MSN, RN
Clinical Nurse
Interest: Child Sexual Abuse
Nursing School: Lewis and Clark Community College
Graduate School: Webster University

STAFF

Theresa Forsythe
Medical Secretary

HONORS AND OTHER ACADEMIC ACTIVITIES

Shaw, L: Best Doctor Award, Saint Louis Magazine, 2013; Member, Ray Helfer Society (honorary society, field of child maltreatment)

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
Child Sexual Abuse, The Child Center, Wentzville, Missouri
Child Sexual Abuse, Child Advocacy Services of Greater Saint Louis Trauma Colloquium

Deborah Throne, MSN, RN
CGCMC Emergency Department Child Abuse In-Service
Child Sexual Abuse Protocol, St. Mary’s Hospital, Centralia IL

Linda J. Shaw, MD, MSSW
Child Sexual Abuse, Identifying Families at Risk, Alton Memorial Hospital Grand Rounds
Cutaneous Injury, Neglect, Medical Child Abuse, Missouri SAFECARE Network Training
Taking Care of Nonoffending Caretakers of Sexually Abuse Children, SAFECARE Webinar
Feedback or Static: Which Will it Be?, Pediatrics Dept. Faculty Development, CGCMC

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
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 provide emergency care in other locations including the Emergency Room, Operating Room, Cardiac Catheterization Laboratory and the Transitional Care Unit. Intensivists and advanced practice nurses 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 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 with care provided either as the primary managing service or 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. The Division is fully involved in the Quality Improvement programs inherent to a well-managed quaternary care PICU at a free-standing Children’s Hospital.

Our clinical workload helps provide educational opportunities to pediatric residents, surgery residents, emergency medicine fellows and residents, pediatric cardiology fellows, nurses, medical students, respiratory therapists and learners from the Air Force CSTARS program. The Division does offer an ACGME accredited pediatric critical care fellowship training program. The Division provides continuing medical education on a local, regional, national, and international basis particularly through Instructor work for the Society of Critical Care Medicine (Pediatric Fundamentals of Critical Care Course), the Society for Pediatric Sedation (Pediatric Sedation Course) and the American Heart Association Pediatric Advanced Life Support Course.

FACULTY PROFILES

Teresa Andreone, MD, PhD

Associate Professor

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

Gordon Gale, MD  
Professor  
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  
Associate Professor  
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  
Professor and Division Director  
Research Interests: Pediatric Sedation, ECMO, Mechanisms and Models of Hospital Care, Quality Improvement  
Board Certification: Pediatrics; Pediatric Critical Care Medicine  
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  
Assistant Professor  
Research Interests: Procedural sedation  
Board Certification: Pediatrics  
Medical College: SIU Springfield Medical School  
Residency: Naval Medical Center, Portsmouth, Virginia

Robert Ream, MD  
Professor and Medical Director, PICU  
Research Interests: Quality assurance, organ donor management  
Board Certification: Internal Medicine; Pediatrics; Pediatric Critical Care Medicine  
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  
Assistant Professor  
Research Interests:  
Simulation based education, diagnosis and management of nosocomial complications in the PICU  
Board Certification:  
Pediatrics; Pediatric Critical Care Medicine  
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  
Assistant Professor  
Research Interests:  
Simulation based education  
Board Certification:  
Pediatrics; Pediatric Critical Care Medicine  
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
Pam MacFarland, Medical Secretary  
MaryBeth Bevirt, RN, NP  
Mary Laffey, RN, NP  
Michelle Piole, RN, NP  
Kristina Scherrer, RN, NP

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 continues to actively survey U.S. Organ Procurement Organizations concerning pediatric organ donor management techniques and has compiled results and conclusions are ready for journal submission. Dr. Lowrie continues to work on multi-institution procedural sedation quality research and quality improvement techniques and quality outcomes. Dr. Calamur continues her Masters level work in Outcomes Research at Saint Louis University.

PUBLICATIONS

Laura A. Nabors, Jessica C. Kichler, Michelle Burbage, Christopher M. Swoboda, and Teresa L. Andreone, Children’s Learning And Goal Setting at a Diabetes Camp, Diabetes Spectrum, November, Issue 4, 2014. Supposed to have been published in Issue 1, January 2014, but Research Section ran too long, so all non-basic-science articles backlogged publications reset for November 2014.


"Great Expectations - Defining Quality in Pediatric Sedation: Outcomes of a Multidisciplinary Consensus Conference" by Connors, Jerard; Cravero, Joseph; Kost, Susanne; LaViollette, Deborah; Lowrie, Lia; Scherrer, Patricia, 2013. Journal for Healthcare Quality. Published online August 26. DOI: 10.1111/jhq.12033
HONORS AND SERVICE

Andreone, T: St. Louis Magazine’s Best Doctors in St. Louis, 2006-2014; Best Doctors in America, 2007-14; Medical Director, Camp Korelitz, Cincinnati, Ohio August 2013;

Garrett, J: St. Louis Magazine’s Best Doctors in America, 2007-14; Best Doctors in America, 2007-14; CME Director, Department of Pediatrics, Saint Louis University School of Medicine; Society of Critical Care Medicine, Question editor & writer Pediatric Fundamental Critical Care Support; Reviewer, Abstracts, Society for Critical Care Medicine Annual Conference September 2013; Glennon Foundation Light of Hope Recognition 2013 and 2014

Lowrie, L: President, Society for Pediatric Sedation; Reviewer, Journal of Pediatrics; Reviewer, Abstracts, Society for Critical Care Medicine Annual Conference September 2013

Ream, R: St. Louis Magazine’s Best Doctors in St. Louis, 2005-14; Best Doctors in America, 2007-14; Associate Pediatric Medical Director, Mid-America Transplant Services; Projects Committee of the Organ Donation Research Consortium

PRESENTATIONS

Andreone T: 17 hours of educational program to Diabetes Camp participants and Ohio RN’s (CEU program) August 2013

Calamur N: Clarifying Expectations: It’s Hard to Perform When No One Knows What Needs to Be Done, St. Louis University Department of Pediatrics Faculty Development Program. September 2013

Garrett J: Pediatric jeopardy III; SLU Pediatric Grand Rounds, St. Louis, MO January 2014

Garrett J: Pediatric Drowning; SLU Pediatric Grand Rounds, St. Louis, Missouri, June 2014

Garrett J: Near Drowning; Midwest Pediatric Trauma Conference, St. Charles Missouri, May 2014

Lowrie L: Panel Discussion: Sedation Specialist as a Career, Society for Pediatric Sedation 2014 Annual Conference Charleston, S. Carolina, May 2014

Lowrie L: Quality Improvement, Faculty Development Program St. Louis University Department of Pediatrics. April, 2014

Lowrie L: Pediatric Procedural Sedation, Grand Rounds, Department of Pediatrics University of Iowa Children’s Hospital Iowa City, Iowa. January 2014


INTRODUCTION AND DESCRIPTION

July 1, 2014 marked the seventh anniversary for the Division of Dermatology. The members of the division include one full-time physician, a 0.6 FTE physician assistant, 2 full-time RNs and a 1.0 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 2 days per week in addition to SSM-operated remote locations, Lake St. Louis since January 2012 and St. Luke’s beginning April 2013. The division directs industry-sponsored clinical trials utilizing the infrastructure of the Department of Pediatrics Clinical Trials Unit and Department of Dermatology 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 and Dermatology resident research projects 2013-14, including 2 presented at the annual meeting of the American Academy of Dermatology, 1 at the annual Missouri Dermatology meeting and 1 at the annual Society for Pediatric Dermatology. Dr. Siegfried is also a frequently invited speaker, and appointed member of national working groups.

FACULTY PROFILES

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

CLINICAL STAFF

Anne Weissler, PA-C
Samantha Sceogo, BSN, Clinical Nurse
Joyce Hoffman, BSN, CCM, CPU

ADMINISTRATIVE STAFF

Lisa Jones, CMAS, Medical Secretary
**Research Highlights**

**Enrollment complete; Ongoing Clinical Trials:**
Phase 2, an Open-Label Extension Study to Evaluate the Safety of Etanercept in Pediatric Subjects with Plaque Psoriasis (Amgen)

**Enrollment complete; study closed**
Phase 2-3 Randomized, Double-Blind, Controlled, Multi-Dose, Multicenter, Adaptive Study in Infants with Proliferating Infantile Hemangiomas Requiring Systemic Therapy to Compare 4 Regimens Of Propranolol to Placebo (Pierre Fabre)

**Enrollment complete; study closed**
Novartis Protocol CBPR277X2101: A first-in-human study to evaluate safety, tolerability and preliminary efficacy of repeated topical administrations of BPR277 ointment in patients with atopic dermatitis and Netherton Syndrome

**Enrolling:**
Pediatric Dermatology Research Alliance (PeDRA; an independent multicenter consortium of clinical investigators) - Systemic Therapies for Pediatric Atopic Dermatitis

Pierre Fabre Protocol: Burden of Infantile Hemangioma on Family: an International observational cross-sectional study

A Multicenter, Randomized, Double-Blind, Vehicle-Controlled Study of the Safety and Efficacy of AN2728 Topical Ointment, 2% in Children, Adolescents, and Adults (Ages 2 Years or Older) with Atopic Dermatitis (Anacor)

**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)

A Single Center, Investigator-Initiated Retrospective Review of Daily Subcutaneous Interferon-Gamma for Severe Inflammatory Skin Disease Complicated by Recurrent Eczema Herpeticum (Vidara)

A Multicenter, Randomized, Double-Blind, Phase 2 Study of the Safety and Efficacy of a Novel IL4 Receptor Antagonist for Children over Age 12 and Adults with Severe Atopic Dermatitis (Roche Pharmaceuticals/Genentech Inc.)

**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)
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
- 2012: Chair Dermatology Therapeutic Area

PUBLICATIONS


ABSTRACTS


Chu MB, Siegfried E. Efficacy of topical brimonidine-timolol for hemangioma of infancy. Presented at the annual meeting of the Missouri Dermatologic Society, St. Louis, MO Sept 2013.

*Dermatology 2013 Resident Research Day projects*

Gotsiridze T, Siegfried EC. Antibiotic Resistance Patterns in Pediatric Patients with Atopic Dermatitis. Presented at the annual Resident Research Day, SLU Department of Dermatology, June 2013.

Tobin C, Armbrecht E, Siegfried EC. Analysis of Pediatric Atopic Dermatitis: The Relationship between Disease Progression and Total IgE/Percent Positive Immunocaps. Presented at the annual Resident Research Day, SLU Department of Dermatology, June 2013.

HONORS AND SERVICE

Siegfried, E
Best Doctors in America, 1994-2013

American Dermatological Association (an honorary society recognizing contributions to the field of dermatology), 2006-present; invited presentation: What’s New in Pediatric Dermatology, 2013 annual meeting, Scottsdale AZ, Sept 2013

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 (since 1991)
  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)

Editorial review for papers submitted to the journals: Pediatric Dermatology, Archives of Dermatology,

PRESENTATIONS

Siegfried EC


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**OTHER CONTRIBUTIONS:**

- 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 Editorials*
    - Curbside consultations have value, are free of many administrative encumbrances.
    - Jul 1, 2013

Outside the Box: TCIs for Pediatric Atopic Dermatitis – Medscape Oct. 14, 2013
Advice Post from Elaine Siegfried, MD, National Eczema Association Scientific Advisory Council
https://www.facebook.com/nationaleczema/posts/438577212881827

**Internet Resources**

Visual Dx: Essential Dermatology in Pigmented Skin--contributor
http://books.google.com/books?id=1eX94sK1HqYC&pg=PT37&lpg=PT37&dq=elaine+siegfried+md&source=bl&ots=R2PRf0mUt&sig=18RnfacWpMjRlsyuyGwKdJMrrUY&hl=en&sa=X&ei=8GTMUuszH42QWbn4HoCg&ved=0CGIQ6AEwCTgU#v=onepage&q=elaine%20siegfried%20md&f=false

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
INTRODUCTION AND DESCRIPTION

The Division of Developmental Pediatrics that is part of the Knights of Columbus Developmental Center provides diagnostic evaluations, follow-ups, 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 developmental 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, there has been a significant increase in the number of clinical evaluations and a decrease in the wait time. Our team has 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, a multidisciplinary team performs clinical assessments, treatment and follow-ups.

This year we have expanded our clinical service at St. Luke’s hospital where we provide developmental assessments staffed by a psychologist, a psychiatrist and a developmental pediatricians. We have introduced a developmental clinic for children with status postsurgical repair of hypoplastic heart syndrome, staffed by a psychologist and a developmental pediatrician. In addition to providing PEERS, social skills intervention at SSM Cardinal Glennon and St. Luke’s Hospital locations, we have received grant funding to trial PEERS in the Margaret Buerkle Middle School. We continue the Move to Communicate program that promotes communication in nonverbal preschoolers. 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. Our family care navigators continue to guide the families of children with ASD to facilitate implementation of services.

The teaching goal of the division is to support the educational needs of trainees at different levels of their undergraduate and professional education. Each faculty member participates in a wide range of educational venues, including online training, 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. We provide training for residents in Pediatrics, Internal Medicine- Pediatrics, Child Neurology, Physician Assistants and Psychiatry.

In July 2014 we will start a Fellowship program in Developmental Pediatrics.

We continue to serve as investigators and collaborators in multiple clinical research projects related to ASD and other developmental disabilities. Our staff has been awarded many research grants and has been involved in multiple publications with peer review articles and books. We have participated in international and national research meetings and presented abstracts, posters and presentations in the field of ASD and other developmental disabilities.

With full support from all our SSM Cardinal Glennon staff and multiple SLU physicians our SLU team has received a grant from Autism Speaks that designates Knights of Columbus as an Autism Treatment Network Center and recognized Knights of Columbus as one of the best 12 Autism Centers in US.
**FACULTY PROFILES**

**Barbara Braddock, Ph.D., CCC-SLP**

- **Special Interest:** Communication Disorders, Augmentative and alternative (prelinguistic) communication, Relationship between gesture and motor skill, Neurodevelopmental disorders
- **Board Certification:** American Speech Language Hearing Association CCC-SLP, PEERS program certification, ADOS-2 research certification.
- **Graduate School:** University of Missouri - Columbia

**Rolanda Maxim, MD**

- **Associate Professor of Pediatrics and Medical Director Autism Center**
- **Special Interests:** Autism spectrum disorders, developmental screening, human animal interaction
- **Board Certification:** Pediatrics; Developmental/Behavioral Pediatrics
- **Medical College:** Faculty of Medicine, Bucharest, Romania
- **Residency:** Carmel Hospital, Technion Institute School of Medicine, Haifa, Israel
- **Residency:** Hasbro Children’s Hospital, Brown University School of Medicine
- **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:** Rett 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 the United States and Germany
- **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
Special Interests: Medical student, resident, and fellow education, developmental outcomes of prematurity, early intervention, integrative medicine
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, Ph.D.
Interests: Child Development, Developmental Psychopathology, Resilience, Members of Marginalized Communities, Prevention/Early Intervention, Community Participatory Research, and Child and Adolescent Mental Health Policy
Graduate School: University of Missouri – Saint Louis (Clinical Psychology, APA approved)
Post-Doctoral Training: University of Missouri-Columbia, Department of Psychiatry,
Internship: St. Louis Psychology Internship Consortium
Internship: Washington University Student Counseling Program
Certification: Licensed Clinical Psychologist/Health Service Provider

PROFESSIONAL STAFF

Lynn Bock, M.S., CCC-SLP Speech Pathologist
Amanda Davis* Clerical Coordinator
Karen Hizer Education Coordinator
Patricia Deutsch, RN, BSN Lead Clinical Nurse
Ann Furey, MSW, LCSW Family Resource
Colleen Dolnick * Family Resource
Donna Gfeller, PhD Director KOC
Eva Goss Clerical Coordinator
Sarah Grafeman, PhD Clinical Psychologist
Michael Bunis, PsyEd Clinical Psychologist
Emily Korte-Stroff, OTR Occupational Therapist
Donna McNamara Research Assistant
Elizabeth Miller, RN, BSN Clinical Nurse
Dee Luna-Morales Lead Office Coordinator
Kathy Pierce, PhD Research Coordinator
Jennifer Wilmott, MSW MPH Research Coordinator
Jamie Ezzelgot, B.S Research Coordinator
Sohail Nibras, MD Research Coordinator

*Left the program during the year

RESEARCH HIGHLIGHTS(S)

Barbara Braddock, Ph.D., CCC-SLP
Dr. Braddock currently serves on national committees and presents her research at numerous national and state meetings. She is an elected committee member of the American Speech-Language-Hearing Association (ASHA), and recently named Co-Chair of the Special Interest 12 Group, and committee member for the Missouri-Speech-Language-Hearing Association. She has been invited to serve as Guest Editor of the ASHA Perspectives SIG 12
Rolanda Maxim Gott, MD
Dr. Maxim Gott’s research interests are related to the early signs for ASD and genetic screening in siblings, perinatal risk factors in ASD, impact of dog therapy on children with ASD and training of parents of children with ASD. As a PI and Co-PI she is involved in multiple research projects, had abstracts, posters and oral research presentations and she had submitted multiple research grants. In collaboration with Dr. Zand she had two peer reviewed publications and she submitted additional two papers. Dr. Maxim Gott and Dr. Zand have received a research grant from Autism Speaks that designates Knights of Columbus as an Autism Treatment Network Center. Dr. Maxim Gott mentors graduate and undergraduate students and physicians on clinical research. She is a grant and research presentations reviewer on national and international committees and is the initiator and one of the leading member of the Missouri Autism Centers Research Committee.

Kimberly A. Twyman, MD
Dr. Twyman’s research interests include developmental outcomes of prematurity and bullying/ostracism in children with developmental-behavioral disorders. She and Dr. Barb Braddock are collaborating on two projects: development of an early intervention curriculum development for infants born preterm and determining the effect of a social skills intervention program on bullying and ostracism experiences of adolescents with developmental-behavioral disorders. Accepted to University of Arizona Integrative Medicine Fellowship Program 4/14

Debra H. Zand, Ph.D.
Dr. Zand is a licensed clinical psychologist and a tenured Associate Professor of Pediatrics within the Division of Developmental Pediatrics, at Saint Louis University School of Medicine. Over the 2013-2014 fiscal year, professionally, her time has been spent teaching medical students, residents, and other professionals, conducting assessments on children with developmental disabilities, and conducting research on processes that foster resilience among young people from birth through emerging adulthood and their families. Dr. Zand’s work is guided by the scientist-practitioner model and is heavily influenced by ecological and systems-based theories of child development. Her research and practice focuses on how individual factors interact with environmental influences in a transactional manner throughout the developmental course of childhood to influence the adaptation of children and their families. Her research builds on traditional efficacy studies by focusing on the application of research based prevention interventions in typical community settings and exploring factors that facilitate or impede the implementation of these practices.

Publications


**EDITORIAL ACTIVITY**

**Braddock, B**
Selected reviewer, Journal of Pediatrics, July 2013
International Journal of Communication Disorders, 2013
Clinical Augmentative/ Alternative Conference Abstract publication, 2013
Journal of Clinical Pediatrics, 2014
Developmental Neurorehabilitation, 2014
American Journal of Speech-Language Pathology, 2014
Invited Guest Editor, Perspectives in AAC, 2014
Maxim, R.
SDBP Research team member
SDBP Grant reviewer, 2014
International Autism Research, Abstract Application Reviewer, 2014

Twymann, K.
American Academy of Pediatrics PREP:DBPeds Editorial Board; Ad hoc reviewer, Journal of Pediatrics

Zand, D.
Associate Editor, Journal of Clinical Psychology in Medical Settings, 2012-
Editorial Board for the Journal of Deaf Studies and Deaf Education
Washington University Institute of Clinical and Translational Sciences, Scientific Review Group

HONORS

Braddock, B:
2014 AAMC Early Career Women Professional Development Seminar Course, Saint Louis University School of Medicine
Recipient of the Faculty Mentored Student Research award (first place distinction), Clinical Augmentative and Alternative Communication (CAAC) Research conference, AAC Institute, 9-2013 and 10-2009
National Conference Co-chair, Clinical Augmentative and Alternative Communication Research Conference, Fontbonne University, September 2014
Invited Conference Committee Member, Missouri-Speech-Language-Hearing Association, 2014

Maxim, R: The Leading Physicians of the World Top Pediatrician, 2013
Zand, DH: Leadership Institute for Women in Psychology, 2010-

PRESENTATIONS

Braddock B, Heithaus J, White M, Deutsch P, Bunis M, Dolnick C, Twyman K. “Evidence-based social skills training for adolescents with autism spectrum and related disorders: Replication of the UCLA program.” Oral presentation at Pediatric Science Days, Department of Pediatrics, SSM Cardinal Glennon Children’s Medical Center, St. Louis, MO, 4/14

Liang CA, Braddock BA, Heithaus J, Christensen K, Braddock SR, Carey JC. “Reported communication ability of persons with trisomy 18 and trisomy 13.” 43rd Annual AOA Medical Student Research Poster session. Saint Louis University School of Medicine, Saint Louis, MO. 1/14; and Pediatric Science Days, Department of Pediatrics, SSM Cardinal Glennon Children’s Medical Center, St. Louis, MO, 4/14

Mueller K, Braddock BA. “Verifying parent perceptions of the potential communicative acts in children with Autism Spectrum Disorders.” Faculty mentor for student oral presentation at the Missouri-Speech-Language-Hearing Association, Osgo Beach, MO, 4/14

Gabany C, Braddock BA. “Patterns of gesture use in adolescents with Autism Spectrum Disorders.” Faculty mentor for student oral presentation at the Missouri-Speech-Language-Hearing Association, Osage Beach, MO and Saint Louis University Senior, Legacy Symposium. 4/14

White M, Heithaus J, Braddock B, Twyman K. “Social skills training reduces victimization and ostracism experiences in adolescents with ASD, ADHD and behavior problems: A preliminary study.” Oral presentation at the Pediatric Science Days, Department of Pediatrics, SSM Cardinal Glennon Children’s Medical Center, St. Louis, MO, 5/14

Braddock B, Deutsch P, Brauch D. “PEERS social skills treatment in the schools.” Oral research presentation at the Margaret Buerkle Middle School, St. Louis, MO. 2/14

Braddock B. “Patterns of gesture use in adolescents with ASD.” Oral presentation at the Research Colloquium, Department of Pediatrics, Saint Louis University School of Medicine, St. Louis, MO, 11/13

Dolnick C, Braddock B. “PEERS: A parent assisted social skills intervention for teens with high functioning autism.” Invited platform presentation at the Burrell Autism Center Conference, Springfield, MO, 8/13


Maxim R: “Developmental Psychological Disorders” as part of the Nervous System Module for medical students MSII at Saint Louis University, St. Louis Missouri, 2012, Ongoing

Maxim R: “Autism” for Physician Assistants students at Saint Louis University, St. Louis, Missouri, November, 2012 (Ongoing)

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

Maxim R: “The Child Who Does Not Talk” for medical students MS IV, Saint Louis University, St. Louis, Missouri, 6/year, 2012-ongoing

Maxim R: “ADHD, LD, ASD DSMV Updates”, Developmental Pediatrics seminars for residents and medical students, Knights of Columbus

Maxim R., “Motor development”, Developmental Pediatrics seminars for residents and medical students, Knights of Columbus

Maxim R. “Intellectual Disability”, Developmental Pediatrics seminars for residents and medical students, Knights of Columbus

Maxim R., Behavioral assessments Monthly Developmental Pediatrics seminars for residents and medical students, Knights of Columbus

Maxim R., Autism Spectrum Disorders Monthly Developmental Pediatrics seminars for residents and medical students, Knights of Columbus

Maxim R: Update on DSM-V Criteria for ASD, Grand Rounds Pediatrics CME conference for DePaul Hospital, Saint Louis, MO, May 2014 (CME)

Maxim R: Update on DSM-V Criteria for ASD, Grand Rounds Pediatrics CME conference for St Luke’s Hospital, Chesterfield, MO, April 2014 (CME)
Maxim R: “Sounding the Alarm” Invited Panel Discussion sponsored by Autism Speaks” Saint Louis University Medical School, 2014
United Services for Children, Spencer Road Library Community Commons in St. Peters MO, April 2014
Maxim R: “Update on ASD and services”, Lecture for Egyptian delegation, St. Louis University, OT Department, 2014
Maxim R: “Update on ASD and services at KOC”, Lecture for Russian pediatricians delegation, St. Louis University, OT Department, May 30th, 2014
Maxim R: “Exploring the Spectrum Autism Information Fair, Invited Panel Discussion” United Services for Children, Spencer Road Library Community Commons in St. Peters MO, April 2014
Teodorescu, C: Course of 12 lectures on Childhood Psychopathology for PGY1 and PGY 2 Psychiatric Residents at St Louis University Department of Neuro- Psychiatry
Teodorescu, C: General Psychopathology Child & Adolescent Psychiatry
Teodorescu, C: Development Puberty & Adolescence
Teodorescu, C: Introduction to Child & Adolescent Psychiatry
Teodorescu, C: “ADHD for the internist, what did we learn from pediatric perspective“ on May 30 2014, for the purpose of continuing medical education, Med –Peds Grand Rounds for Internal Medicine
Twyman K. Challenging Case Reviews, Meeting of the Southern Illinois Child and Family Connections Early Intervention Service Coordinators and Providers, Mt. Vernon IL, 5/14
Twyman K. “Recognition of Mental Health Problems in Early Childhood” Southern Illinois Child and Family Connections Provider Training Program, Carbondale, IL 5/14
Twyman K. “Communicating a Difficult Diagnosis.” Developmental Pediatrics Rotation, Saint Louis University, 5/14
Bryant S (Twyman K) “Improving Community Resource Referrals in Danis Pediatrics.” Presented at the Primary Care Research Symposium, Saint Louis University, 4/14.
Twyman K. “Working with Medically Fragile Children” Norris City Local Agency Council Meeting, Norris City, IL, 3/14
Twyman K. Challenging Case Reviews, Meeting of the Southern Illinois Child and Family Connections Early Intervention Service Coordinators and Providers, Norris City, IL: 3/14
Twyman K. “Developmental and Behavioral Issues Associated with Chronic Illness.” Developmental Pediatrics Rotation, Saint Louis University, 2/14
Twyman K. “The Wonderful World of Developmental Pediatrics.” Developmental Pediatrics Student Interest Group, Saint Louis University School of Medicine, 1/14
Twyman K. Challenging Case Reviews, Meeting of the Southern Illinois Child and Family Connections Early Intervention Service Coordinators and Providers, O’Fallon, IL: 1/14
Twyman K. Challenging Case Reviews, Meeting of the Southern Illinois Child and Family Connections Early Intervention Service Coordinators and Providers, Carbondale, IL: 11/13
Twyman K. “Adaptation to Chronic Illness.” Developmental Pediatrics Rotation, Saint Louis University, 10/13
Twyman K. “Introduction to Developmental Disorders: ADHD, Autism, Learning and Intellectual Disabilities.” Introduction to Developmental Disability Medicine medical student rotation, Saint Louis University, 10/13
Twyman K. Challenging Case Reviews, Meeting of the Southern Illinois Child and Family Connections Early Intervention Service Coordinators and Providers, Mt. Vernon IL, 10/13
Twyman K. “Complementary and Alternative Medicine in Children with Special Needs.” Introduction to Developmental Disability Medicine medical student rotation, Saint Louis University, 10/13
Twyman K. “Developmental Screening and Surveillance.” Developmental Pediatrics Rotation, Saint Louis University, 9/13
Twyman K, Braddock B. “Social skills training as an intervention for children at risk for peer victimization and ostracism.” Presented at Research Colloquium meeting, Saint Louis University Department of Pediatrics, 9/13.
Twyman K. “Developmental 101” Lecture for 3rd year Medical Student Pediatric Clerkship Rotation, Saint Louis University, Bimonthly
Twyman K. “Developmental Milestones”, Developmental Pediatrics Rotation, Saint Louis University, Bimonthly
Zand, D. Developmental Theory I, Saint Louis University, Resident Lecture
Zand, D. Developmental Theory II, Saint Louis University, Resident Lecture
Zand, D. Externalizing Disorders, Saint Louis University, Resident Lecture
Zand, D. Social Emotional Milestones: Birth through 5 Years, Saint Louis University, Resident Lecture
Zand D. The North Carolina Family Assessment Scale for General Services (NCFAS-G): Assessing family functioning to promote effective services for family continuity, self-sufficiency, health, and safety (Invited training for community child mental health providers). St. Louis: Cardinal Glennon Children's Medical Center; 2013, May.
Zand D. Pierce K. How do you foster positive adaptation among deaf youth? (Invited training sponsored by the Missouri School for the Deaf) St. Louis: Missouri School for the Deaf; 2013, April.

GRANTS

Braddock, PI CVS Caremark Community Grants
Move to Communicate Autism Spectrum Disorders clinical research
SSM Cardinal Glennon Foundation

Braddock Allan Love Charitable Foundation, St. Louis, MO
Move to Communicate Autism Spectrum Disorders clinical research
SSM Cardinal Glennon Foundation
$10,000 1/2012, renewed 1/2013

Braddock/Twyman Fleur-de-Lis Developmental Grant
Saint Louis University School of Medicine, Department of Pediatrics
Shared book reading intervention in preterm infants
$25,000 7/2013-2015

Twyman/Braddock Fleur-de-Lis Developmental Grant
Saint Louis University School of Medicine, Department of Pediatrics
PEERS treatment intervention
25,000 7/2013-2015

Maxim, PI Autism Speaks Autism Treatment Network
Zand, Co-PI Autism Speaks
Teodorescu, Co-I
Braddock, Co-I To provide comprehensive, high quality, coordinated
multidisciplinary services for children with autism spectrum disorders and their families 

Objectives: 1) To conduct clinical and health related research; 2) to conduct outreach and family education; 3) To disseminate information to professionals 
2014 – 2017 $400,000

**Maxim Gott, PI**

**Teodorescu, Co-I**

**Swidler, Co-I**

**Early Signs of ASD and Genetic Screening**

IntegraGen

The goal of this grant is to identify a genetic screening tool for Autism

$30,000 2011 – 2015

**Maxim Gott, 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

**Maxim Gott, PI**

**Educational Grant in the Field of Autism Spectrum Disorders Multicenter Training**

Division Mental Retardation and Developmental Disabilities

2007- Present $103,000

**Maxim Gott**

Administration for Children and Families, Consultant

**Family Empowerment Project** (HHS-2012-ACF-ACYF-CF-0511).

Multi-site longitudinal study designed to test the effectiveness of relationship based interventions on enhancing developmental trajectories of children born to substance abusing mothers. 2012-

**Twyman**

**Developmental Pediatrics Consultant/ Technical Assistance Team**

Child and Family Connections Early Intervention Program, Department of Human Services, State of Illinois. 7/2013-6/2014 ($44,347)

**Zand, PI**

**Stepping Stones Positive Parenting Positive Parenting Program (PC-SS Triple P) with Parents of Children Newly Diagnosed with Autism.**

**Teodorescu, Co-I**

Goal: To test the efficacy of PC-SS Triple P with Parents of Children Newly Diagnosed with Autism, a 4 week empirically supported parent mediated intervention designed to foster parenting resilience and to improve the behavioral functioning of children newly diagnosed with autism between ages 2 to 12 years.

Objectives: 1) To employ a 2 group pre- post-test design with random assignment using 76 parents of children newly diagnosed with autism; 2) To use a mixed method design to measure and evaluate mediators of outcomes

Role: To oversee all aspects of the project’s design, implementation and dissemination.

10/2014- present $29,000.

**Zand, PI**

**Family Empowerment Project** (Research PI)

Administration for Children and Families, 10/12 – present

Goal: To test the effectiveness of the Queen of Peace Center’s Early Childhood Program, a 36 week empirically supported parent mediated intervention, on improving the developmental trajectories of infants and toddlers who were exposed to maternal drug and/or alcohol abuse.
Objectives: 1) To employ a longitudinal, quasi-experimental design using 240 pregnant or post-partum women and their children (ages birth through 48 months) who are entering residential substance abuse treatment services within the St. Louis, Missouri region through either the Queen of Peace Center (Treatment Group, N=120) or through Bridgeway Behavioral Health (Comparison Group, N=120); 2) To use a mixed method design to measure and evaluate mediators of outcomes; 3) To implement an extensive dissemination plan.
Role: To design, implement and oversee all aspects of the research including human subjects’ compliance, data collection, data management, data analyses, interpretation, dissemination and cross-site data sharing.
Total Funds: $300,000

Zand, PI

**Extreme Recruitment** (Research PI)
Administration for Children and Families, 10/2008-present
Goal: To test the effectiveness of the Foster and Adoptive Care Coalition’s *Extreme Recruitment Program (ER)*, a 12-21 week intervention designed to promote the positive adaption of children transitioning out of Missouri’s foster care system.
Objectives: 1) To conduct a longitudinal randomized control trial with 300 youth (ages 10-18) who are in the process of transitioning out of Missouri’s child welfare system. Youth were randomized into one of two conditions: a) Extreme Recruitment, (N=150) or b) Treatment as Usual, (N=150); 2) To use a mixed method design to measure and evaluate mediators of outcomes, 3) To implement an extensive dissemination plan.
Role: To design, implement and oversee all aspects of the research including human subjects’ compliance, data collection, data management, data analyses, interpretation, dissemination, and cross site data sharing.
Total Funds: $500,000

Zand, PI

**Depression Screening in Pregnant/Post Partum Women** (Consultant)
Maternal and Child Family Health Coalition of St. Louis, 08/2011-present
Goal: To expand the screening, assessment and treatment of post-partum depression with St. Louis Missouri.
Objectives: 1) To employ a single group, repeated measures design to explore project outcomes.
Role: To provide consultation on research methods
Total Funds: $42,000
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 I Pediatric Trauma Center for Missouri and Illinois. In the past year, we cared for over 49,000 children 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 the Cardinal Glennon Access Center. 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 7000 physicians, nurses, EMT’s, paramedics, and respiratory therapists. We also 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. Anthony Scalzo, MD is the Medical Director for the PACTS/PALS program, while Steve Laffey, MD, who is also the Medical Director for Clinical Operations for the Emergency Department, serves as the Associate Medical Director of the PACTS/PALS program.

With respect to community service, Dr. Doerhoff has contributed her personal time to volunteer oversees in Honduras, Dr. Nakanashi has donated his personal time as a faculty volunteer to the Pediatric HRC Clinic in the city of Saint Louis, and Dr. Flood has been politically active in gun violence prevention.

FACULTY PROFILE

Hemina Bailey, MD  
Assistant Clinical Professor  
Educational Interests:  
Student and resident education  
Board Certification:  Pediatrics  
Medical College:  Bangalore University, India  
Residency:  Mercy Hospital of Pittsburgh, PA
Colleen Braun, DO  Assistant Clinical Professor
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 Medical Center
Fellowship: Saint Louis University School of Medicine/Cardinal Glennon Children’s Medical Center

Rachel Charney, MD  Associate 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
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 and Associate Director of Pediatric Residency Training Program
Educational Interests: Medical student, resident, and fellow education
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 Medical Center

Robert G. Flood, MD  Clinical Professor and 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, Quality Assurance/Improvement
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
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 Medical Center
Chief Resident: Saint Louis University School of Medicine, Cardinal Glennon Children’s Medical Center
Fellowship: Saint Louis University School of Medicine, Cardinal Glennon Children’s Medical Center

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 Medical Center
Fellowship: Saint Louis University School of Medicine/Cardinal Glennon Children’s Medical Center

Renee Manley-Markowski, MD
Assistant Clinical Professor
Education Interests: Resident and fellow education
Board Certification: Pediatrics
Medical College: St. George’s University, Grenada
Residency: Atlantic Health System/Goryeb Children’s Hospital, Morristown, NJ
Fellowship: University of Arkansas for Medical Sciences/Arkansas Children’s Hospital, Little Rock, AR

Albert K. Nakanishi, MD, MPH
Associate Clinical Professor
Educational 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
Educational 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 Medical Center
Chief Resident: Saint Louis University School of Medicine/Cardinal Glennon Children’s Medical Center
Fellowship: Saint Louis University School of Medicine/Cardinal Glennon Children’s Medical Center

Nadeem Qureshi, MD
Associate Clinical Professor
Education Interests: International pediatric emergency medicine education course direction
Research Interests: Quality assurance/improvement
Board Certification: Pediatrics; Pediatric Critical Care
Medical College: M.B.B.S (MD) Dow Medical College, Karachi, Pakistan
Residency: Georgetown University Children Medical Center, Washington, DC
Fellowship: Fellow in Pediatric Critical Care Medicine, Georgetown University Children Medical Center Washington, DC

Anthony J. Scalzo, MD
Professor, Medical Toxicologist and Medical Director of the Regional Poison Control Center, Director of Toxicology, Medical Director of the PACTS/PALS Training Program, Medical Director of the SLU Simulation Center.

Educational Interests: Toxicology, PACTS/PALS, medical simulation
Research Interests: Toxicology, PACTS/PALS, medical simulation
Board Certification: Pediatrics; Pediatric Emergency Medicine; Medical Toxicology
Medical College: Saint Louis University School of Medicine
Residency: Saint Louis University School of Medicine/Cardinal Glennon Children’s Medical Center

Teresa Schiff, MD
Assistant Clinical Professor

Educational Interests: Student and resident education
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
Associate 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.

Educational 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 Medical Center
Chief Resident: Saint Louis University School of Medicine/Cardinal Glennon Children’s Medical Center
Fellowship: Saint Louis University School of Medicine/Cardinal Glennon Children’s Medical Center

Jaime Velasco-Masson, MD
Assistant Clinical Professor

Education Interests: Pediatric advanced life & trauma education courses
Research Interests: Ultrasound, Urinary Tract Infections
Board Certification: Pediatrics
Medical College: Medico Cirujano (equivalent to Medical Doctor Degree M.D.)
Universidad Del Norte – Barranquilla, Colombia
Residency: Saint Louis University School of Medicine/Cardinal Glennon Children’s Medical Center
Fellowship: Wayne State University – School of Medicine / Children’s Hospital of Michigan

**FELLOWS**

**Kristen Covert, MD**
Third Year Fellow (completed on July 31, 2014)
Educational Interests: Medical student and resident education
Research Interests: Injury Prevention, Asthma Care in the ED
Board Certification: Pediatrics
Medical Education: Saint Louis University School of Medicine
Residency: Phoenix Children’s Hospital, AZ

**Vivian Nwosu, MD**
Third Year Fellow (completed on June 30, 2014)
Educational Interests: Medical student and resident education
Research Interests: Asthma Care in the ED
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

**Jeffrey Rallo, MD**
Second Year Fellow
Educational Interests: Medical student and resident education
Research Interests: Wound Care in the ED
Board Certification: Pediatrics
Medical Education: St. Matthew’s University School of Medicine (Grand Cayman)
Residency: Maimonides Medical Center, Brooklyn, NY

**Mujahida Baram, MD**
Second Year Fellow
Educational Interests: Medical student and resident education
Research Interests: Pre-hospital Care
Board Certification: Pediatrics
Medical Education: St. George’s University
Residency: INOVA Fairfax Hospital for Children, Falls Church, VA

**Brian Payne, MD**
First Year Fellow
Educational Interests: Medical student and resident education
Research Interests: Child abuse
Board Certification: Pediatrics
Medical Education: University of Texas Med Branch School of Medicine, Galveston
Residency: Texas Tech University Health Science Center
Chief Residency: Texas Tech University Health Science Center
Sheila Donovan, MD  
First Year Fellow (resigned from the fellowship on 6/30/14)  
Educational Interests:  
Medical student and resident education  
Research Interests:  
Bacteremia in children  
Medical Education:  
University of Oklahoma College of Medicine-Tulsa  
Residency:  
Saint Louis University School of Medicine/Cardinal Glennon Children’s Medical Center

STAFF

Danette Kurtzeborn  
PEM Fellowship Program Coordinator, Administrative Assistant.

HONORS

“Best Doctors in Saint Louis” 2013, 2014: Peter, Scalzo

RESEARCH HIGHLIGHTS

Faculty and fellows within the Division of Pediatric Emergency Medicine conduct the majority of their research in three core areas: 1) clinical medicine, 2) disaster medicine, and 3) simulation training. Successful productivity in all three of these core areas was again seen throughout the past academic year. The following is a summary highlighting the division’s accomplishments:

1) Clinical research (Core leader – Robert Flood, MD): Faculty and fellows conducted prospective studies on ketamine dosing for adolescent procedural sedations and the management of extremity lacerations. Faculty and fellows conducted retrospective studies on the management of migraine headaches, acute asthma exacerbation, and suspected child abuse. Faculty and fellows mentored students from the Saint Louis University School of Medicine on two of these projects. A large clinical data base, with over 100,000 patient entries, was created which led to the completion of a study comparing two different emergency department triage processes. Jaime Velasco, MD collaborated with Nader Shaikh, MD (Children’s Hospital of Pittsburgh), Principal Investigator of an NIH-funded, multicenter study entitled “Corticosteroids for Children with Febrile Urinary Tract Infections (STARRS)”. This collaborative effort should result in Saint Louis University becoming a participating study site in the current academic year. It is anticipated that participation in this study will result in up to $60,000.00 of extramural funding per year over multiple years of the project. Clinical research projects resulted in 3 publications in peer-reviewed journals, 1 peer-reviewed case report, 1 peer-reviewed journal submission with a pending decision, 2 national abstract presentations, and 5 local abstract presentations.

2) Disaster medicine research (Core leader – Rachel Charney, MD): Faculty conducted studies on disaster medicine including topics related to hospital preparedness and public expectations of hospitals’ responsibilities following a disaster. This work has included collaboration with the Saint Louis University School of Public Health. Rachel Charney, MD was awarded a $14,582.00 intramural Fleur-de-lis grant to conduct research on a project entitled "Racial disparities in public expectations of hospitals for non-medical resources during disasters". This work has included mentoring students from Saint Louis University. Dr. Charney is also a Co-PI on a $50,000.00 grant proposal entitled "Social Media and Community Resilience" submitted to the LMI Research Institute with a pending decision. Disaster medicine research resulted in 3 publications in peer-reviewed journals, 1 peer-reviewed journal submission with a pending decision, and 1 local abstract presentation.
3) **Simulation training research (Core leader – James Gerard, MD):** Faculty conducted prospective studies on the use of simulation for skills training on the infant lumbar puncture and central venous catheter insertion procedures. This work has included collaboration within a multicenter pediatric simulation research network (INSPIRE). Dr. Gerard was awarded a $541,807.00 grant from the Department of Defense – Office of Naval Research to develop and validate a virtual pediatric simulator for training military physicians on high-stakes pediatric emergency medicine scenarios. Simulation training research resulted in 3 publications in peer-reviewed journals (traditional and non-traditional media), 1 peer-reviewed journal submission with a pending decision, 5 national abstract presentations, and 1 local abstract presentation.

**ORIGINAL RESEARCH ARTICLES PUBLISHED**


**CASE REPORTS/REVIEW ARTICLES PUBLISHED**


**BOOK EDITOR/CHAPTERS**


**Abstract Presentations**

**NATIONAL/INTERNATIONAL:**


**LOCAL/REGIONAL:**


3. Charney RL, Rebmann T, **Flood RG**. Perceptions and impacts of childcare responsibilities on healthcare workers following a disaster. Poster presentation at Pediatric Science Days, Saint Louis University, April, 2014.


**GRANTS ACCEPTED**

Noted in Research Highlights
**ACTIVE STUDIES**

**Research Projects in Progress**

1. Hospital employee willingness to work during earthquakes versus pandemics: a statewide survey – Charney/Flood. Manuscript completed and revised, re-submission pending.


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 and two pediatric nurse practitioners, both of whom are Certified Diabetes Educators. One clinical nurse performs specialized endocrine function testing and provides education in endocrine disorders. Three clinical nurses and an APN clinical nurse specialist (3 FTE), three 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, two dietitians (1 FTE), 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. In calendar year 2013, 6938 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, in the Glennon Care facilities at St. Anthony’s Hospital, Anderson Hospital, and St. Luke’s Hospital, and in the outreach clinics at SEMO Hospital in Cape Girardeau, MO. Division members participate in several multi-disciplinary clinics, including the Lipid Disorders, Turner Syndrome, and Prader-Willi Syndrome clinics. The Division has recently developed a highly successful program to transition adolescents with diabetes to adult care. 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, 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 Internal Medicine by its supervision of fellows in a one-month rotation and its participation in a combined case conference.

Saint Louis University is one of 15 sites in the NIH-funded, multi-center TODAY (Treatment Options for type 2 Diabetes in Adolescents and Youth) Study (Sherida E. Tollefsen, PI) and also participates in TODAY Genetics 2500. Division members have participated in industry-sponsored trials investigating drugs for Pediatric type 2 diabetes for many years and are currently participating in ELLIPSE, a Novo Nordisk trial to compare the safety and efficacy of liraglutide with metformin vs metformin monotherapy on glycemic control in children and adolescents with type 2 diabetes.
FACULTY PROFILES

David P. Dempsher, MD, PhD
Associate Professor
Special Interests: Disorders of growth, genital ambiguity, diabetes, lipid disorders
Board Certifications: Pediatrics; Pediatric Endocrinology
Medical College: Johns Hopkins University School of Medicine, Baltimore, MD
Residency: Vanderbilt University Hospital, Nashville, TN
Fellowship: Pediatric Endocrinology and Metabolism - 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 School of Medicine, Columbia, MO
Residency: Children’s Mercy Hospital, University of Missouri–Kansas City School of Medicine, Kansas City, MO
Fellowship: Pediatric Endocrinology and Metabolism - Washington University School of Medicine, St. Louis, MO

Susan E. Myers, MD
Professor
Special Interests: Disorders of puberty, Turner and Prader-Willi syndromes, 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, Cincinnati, OH
Fellowship: Pediatric Endocrinology - University of Cincinnati School of Medicine and Duke University Medical Center, Durham, NC

Margaret K. Siska, MD
Assistant Professor (since October 2013)
Special Interests: Thyroid disorders, disorders of puberty, type 2 diabetes and its comorbidities
Board Certifications: Pediatrics; Pediatric Endocrinology
Medical College: University of Iowa, Carver College of Medicine, Iowa City, IA
Residency: Yale-New Haven Hospital, New Haven, CT
Fellowship: Pediatric Endocrinology - Yale School of Medicine

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, and University of Colorado Affiliated Hospitals, Denver, CO
Fellowship: Pediatric Endocrinology - University of Colorado School of Medicine (clinical year) and Washington University School of Medicine (research years)
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. 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. As members of the TODAY Study Group, Drs. Tollefsen and Dempsher were cited in a publication reporting alterations in left ventricular, left atrial, and right ventricular structure and function to cardiovascular risk factors in adolescents with type 2 diabetes participating in the TODAY clinical trial. 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. By the end of the academic year, 148 patients had been screened for this study at the SLU site.

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). They have been asked to participate in the phase 3 trial of Beloranib in obese subjects with PWS to evaluate total body fat mass, food-related behavior, and safety.

Dr. Margaret Siska is the principal investigator for a Novo Nordisk trial entitled ELLIPSE (efficacy and safety of liraglutide with metformin versus metformin monotherapy on glycemic control in children and adolescents with type 2 diabetes), and patient recruitment will begin soon.

PUBLICATIONS

As members of the TODAY Study Group, SE Tollefsen and DP Dempsher were cited in the following publication (attached):

HONORS AND OTHER ACADEMIC ACTIVITIES

Dempsher, DP  Selection to *The Best Doctors in St. Louis 2013*

Eddy, MC  Board member, Missouri chapter of the AAP

Myers, SE  Selection to *The Best Doctors in St. Louis 2013*
Member of the Scientific Advisory Board, National Prader-Willi Syndrome Association (USA)
Member of the Missouri Board of the Prader-Willi Syndrome Association
Member of the Pediatric Endocrine Society (PES) Membership and Drug and Therapeutics committees

Tollefsen, SE  Selection to *The Best Doctors in St. Louis 2013*
TODAY Study activities: member of the Steering Committee, chair of the Laboratory Monitoring Committee, member of several writing groups
Internal peer reviewer, President’s Research Fund application

PRESENTATIONS

Eddy, MC: "DKA" Pediatric Transport Medicine Course, CGCMC. St. Louis, MO, 11/20/13

Eddy, MC: "Immunization Adverse Event Reporting" Grand Rounds, Department of Pediatrics, CGCMC. St. Louis, MO, 5/21/14.


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 (7/30/13)

Dempsher, DP  Pubertal Disorders (8/27/13)

Eddy, MC  Hypothalamic Hamartomas (9/24/13)

Myers, SE  Primary Ovarian Failure (11/26/13)

Dempsher, DP  Pearson Syndrome (1/28/13)

Siska, MK  Thyroid Nodules (2/25/14)

Tollefsen, SE  Growth Retardation due to 15q26.3 Deletion and Haplo-insufficiency of the IGF-1 Receptor (3/25/14)

Eddy, MC  Adrenal Crisis in a Child with 21-Hydroxylase Deficiency after Vaccination (4/29/14)
Myers, SM  
Hyperglycemic-Hyperosmolar Syndrome (5/27/14)

**GRANTS/CONTRACTS (with direct costs noted)**

**NEW:**

Zafgen

S.E. Myers, PI  
Randomized, Double-Blind, Placebo Controlled, Phase 3 Trial of ZGN-440 (Subcutaneous Beloranib in Suspension) in Obese Subjects with PWS to Evaluate Total Body Fat Mass, Food-related Behavior, and Safety over 6 Months  
$73,676 period of performance under negotiation

Novo Nordisk

M.K. Siska, PI  
**NN2211-3659** - Efficacy and Safety of Liraglutide in Combination with Metformin versus Metformin Monotherapy on Glycemic Control in Children and Adolescents with Type 2 Diabetes (ELLIPSE)  
$88,052 8/8/14–3/21/17

**CONTINUING:**

Foundation for Prader-Willi Research, Prader-Willi Syndrome Association - USA

S.E. Myers, PI  
The Effect of Growth Hormone Replacement on Physical and Behavioral Sexual Development in Persons with PWS  
$100,000 10/1/07–completed

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
$251,763  3/1/13–2/28/14
$157,727  3/1/14–2/28/15

Genetics 2500 Study $24,420 (to date)  3/1/09–2/28/15

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

Lilly Research Laboratories

The Genetics and Neuroendocrinology of Short Stature International Study
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 almost 200 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 works weekly with a dedicated, pediatric psychologist and a social worker on inpatient rounds and with continuity links to our outpatient clinics. These are key ancillary personnel who enhance our quality patient care. We also have pediatric dietitian coverage.

Our service has continued to grow and we have reached a 40% market share for pediatric gastroenterology in the St. Louis region. St. Louis Children’s Hospital has approximately 35% with Mercy the remainder. This is up from a market share of only 24% in 2005. Despite this growth, we have increased our quality and patient satisfaction, as recognized in a 99%ile patient satisfaction score for our division in recent Press-Ganey data. We continue to plan expansion of our faculty, and a new faculty MD was added this year with a focus on inflammatory bowel disease as part of a national quality initiative. We look forward to continued growth and quality improvement.

FACULTY PROFILES

Thomas M. Foy, MD Professor

Interests: Nutrition/short bowel syndrome

Board Certification: Pediatrics

Medical College: Vanderbilt University

Residency: Strong Memorial Hospital, Rochester, New York

Fellowship: Baylor College of Medicine
Ajay Jain, MD  
Assistant Professor of Pediatrics  
Interests: Pediatric liver disease, liver transplant, 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

Nisha Mangalat, MD  
Assistant Professor of Pediatrics  
Interests: General GI, inflammatory bowel disease, short gut syndrome.  
Board Certification: Pediatrics; Pediatric Gastroenterology  
Medical College: University of Missouri- Kansas City, Kansas City, MO  
Residency: Children’s Mercy Hospitals & Clinics- Kansas City, MO  
Fellowship: Children’s Memorial Hermann Hospital- Houston, TX

Helen Pappa, MD, MPH  
Assistant Professor of Pediatrics  
Interests: Inflammatory bowel disease, bone health research  
Board Certification: Pediatrics, Pediatric Gastroenterology  
Medical College: University of Athens Medical School- Athens, Greece  
Residency: Massachusetts General Hospital, Harvard Medical School – Boston, MA  
Fellowship: Massachusetts General Hospital and Boston Children’s Hospital, Harvard Medical School – Boston, MA  
MPH: Harvard School of Public Health – Boston, MA

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, Division 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 Spranaitis, RN, CPNP, Functions as a provider, with 6.5 outpatient clinic sessions weekly, which includes new patients and follow up appointments. Also sees patients in the Weight Management program. Has special interest in functional abdominal pain. Has completed education in the use of Guided Imagery for the management of functional abdominal pain.

CLINIC SUPPORT

Lisa Cayse, RN, Clinical Nurse
Kim Killebrew, RN, Clinical Nurse, assists in coordinating our national inflammatory bowel disease quality program.
Susan Travaglini, RN, Clinical Nurse

STAFF

Erica Blackmon, Medical Secretary
Theresa Friederich, Senior Patient Coordinator

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 additional work and has been awarded two extramural research grants in this area for this academic year. 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. He is a recognized internal authority in this condition. Dr. Teckman has had 19 years of continuous extramural 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, which this academic year was renewed for another 5 years. 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 participated in an industry sponsored drug trial in hepatitis B this academic year, and is the National PI for a privately funded multi-center study of adult liver disease. A new grant has just been funded to continue support for these efforts. 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. Dr. Teckman also has many industry partners and is involved in drug development and drug research grants, which have lead to additional publications.
PUBLICATIONS

Ajay Jain, MD


Jeffrey Teckman, MD


Helen Pappa, MD

HONORS AND OTHER ACADEMIC ACTIVITIES

Thomas Foy, MD
Best Doctors in St. Louis, 2013; Best Doctors in St. Louis, 2014; Volunteer Physician, Health Resource Center, School of Medicine; Glennon Ambassadors Light of Hope Award

Ajay Jain, MD
President’s Research Award; AASLD Presidential Plenary Oral Presentation; A.S.P.E.N. Rhoads Research Foundation Award, Fleur-De-Lis Award

Helen Pappa, MD
K-23 Career Development Award (NIH), Improve Care Now
Jeffrey Teckman, MD

PRESENTATIONS/LECTURES

Thomas Foy, MD

Foy, T: “Celiac Disease and IBD in Children.” Allergy and Immunology Conference Lecture Series, Saint Louis University, St. Louis, February 2014.

Foy, T: “Pediatric Nutrition.” Saint Louis University School of Medicine, 2nd Year Lecture Series, February 2014.

Ajay Jain, MD

Jain AK: “Hepatic Artery Stenosis.” Saint Louis University, February 2014.


Jain AK: “Serum keratin fragment 18 (CK18) levels significantly predict changes in liver histology in children and adolescents with nonalcoholic fatty liver disease (NAFLD): Results from the TONIC trial.” AASLD Presidential Plenary, 2013


Nisha Mangalat, MD
Mangalat, N: “Childhood Diarrhea.” Medical Student Lecture Series, Saint Louis University, St. Louis, MO.

Mangalat, N: “Intestinal Diseases.” Resident Noon Conference, Saint Louis University, St. Louis, Mo.


Helen Pappa, MD


Jeffrey Teckman, MD


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

ASPEN Foundation
Jain, Ajay – PI Novel Interventions Modulating the FXR-FGF19 Axis and the TGR5-GLP Axis as Therapy  
01 yr, $25,000, 01/01/14-12/31/14

Synageva
Jain, Ajay – PI Determination of Lysosomal Acid Lipase Activity and Cholesterol Ester Storage Disease Prevalance.  
01 yr, $25,000

NIH-1u01-DK61718, NIH NASH CRN
Jain, Ajay – PI Multicenter studies on the etiology, contributing factors, natural history, and treatment of nonalcoholic steatohepatitis (NASH).

Synageva
Jain, Ajay – PI Determination of Lysosomal Acid Lipase Activity and Cholesterol Ester Storage Disease Prevalence.  
$25,837, 4/23/14 – no end date

NASH CRN
Dr. Jain’s effort amounts shown, not full award amount.

Neuschwander-Tetri – PI Nonalcoholic Steatohepatitis Clinical Research Network Supplement  
01 yr, $5,288, 07/01/11-06/30/12  
02 yr, $5,509, 07/01/12-6/30/13  
03 yr, $6,858, 07/01/12-6/30/14

PRF SLU
Jain, Ajay – PI New Strategies for Parenteral Nutrition Associated Liver and Gut Disease  
01 yr, $47,000, 03/01/14-02/28/15

Teckman, JH

Genentech
Teckman, Jeffrey – PI A phase IIIb parallel group, open label study of pegylated interferon alfa-2a monotherapy (PEG-IFN, Ro 25-8310) compared to untreated control in children with HBeAg positive chronic hepatitis B  
$87,186, 8/30/12-8/31/14

Alnylam Pharmaceuticals 308211
Teckman, Jeffrey - PI Sponsored Research Agreement  
01 yr, $13,509, 3/11/11-3/10/12  
02 yr, $24,374, 3/11/12-3/1/13  
03 yr, $26,839, 3/2/13-3/1/14  
04 yr, $36,349, 3/2/14-3/1/15
Alpha-1 Foundation
Teckman, Jeffrey - PI Alpha 1 Antitrypsin Deficiency Adult Clinical and Genetic Linkage Study
01 yr, $410,178, 9/1/12-8/31/13
02 yr, $211,650, 9/1/13-8/31/14
03 yr, $217,098, 9/1/14-8/31/15
04 yr, $222,711, 9/1/15-8/31/16
05 yr, $321,525, 9/1/16-8/31/17

Arrowhead Research Corporation
Teckman, Jeffrey - PI Evaluation of DPCs in the PiZZ Mouse Model
01 yr, $100,476, 1/8/14-1/7/15

Childhood Liver Disease Research and Education Network (NIH and Alpha-1 Foundation); research grant subcontract from Children's Hospital of Denver
Teckman, Jeffrey - PI Promoting Research of A1-AT Liver Disease through CLiC
01 yr, $50,000, 8/1/06-7/31/07
02 yr, $50,000, 8/1/07-7/31/08
03 yr, $50,000, 8/1/08-7/31/09
04 yr, $60,000, 8/1/09-7/31/10
05 yr, $60,000, 8/1/10-7/31/11
06 yr, $60,000, 8/1/11-7/31/12
07 yr, $60,000, 6/1/12-5/31/13
08 yr, $60,000, 6/1/13-5/31/14
09 yr, ANTICIPATED, $60,000, 6/1/14-5/31/15


1/1/12-12/31/13 Study of YV25718 in Hepatitis B.
Roche-Genentech (Center PI-Teckman)

10/1/08-9/30/15 Hepatitis B Research Network
NIH U01 DK082871 (PI-DiBisceglie, pediatric center PI-Teckman)
**Introduction and Description**

**Mission Statement:** Through quality patient care, education, research and advocacy, we partner with patients, parents and the community to assure the physical, emotional and spiritual needs of this and future generations of children will be met with competence, dignity, justice and compassion.

The primary role for the members of the Division of General Academic Pediatrics (“the Division”) is patient care. Members of the Division provide inpatient care 168 weeks per year in addition to full-time staffing of Danis Pediatrics. The Division covers approximately 7000 inpatients each year at SSM Cardinal Glennon Children’s Medical Center (CGCMC) and more than 1700 newborns each year at SSM St. Mary’s Health Center (St. Mary’s). The Division also covers more than 16,000 visits per year in the outpatient setting. The Hospitalist Section also provides pediatric sedation services for the hospital, providing more than 300 sedations per year.

Several members are also involved in leadership roles which directly impact patient care including the following: Dr. Heaney – Medical Director of the Danis Pediatrics clinic; Dr. Chris Sallee – Medical Director for Informatics. Dr. Wathen – Medical Director of 2 and 3 South; Dr. Heidi Sallee – Medical Director of the Newborn Nursery at St. Mary’s; and Dr. LaBarge – President of the Medical Staff of CGCMC.

There is heavy overlap between the education and service provided by the Division. Dr. Heidi Sallee served as Associate Chair for Education, Dr. Marta King served as Associate Director of Medical Student Education, and Dr. Ken Haller served as Associate Co-Chair for Faculty Development.

The Division provided clinical education to residents before, during, and after rounds each day of the inpatient service at CGCMC and St. Mary’s, as well as, the outpatient clinics in Danis Pediatrics. They provided resident noon conference more than 30 times last year accounting for more than 15% of the noon and provided or supervised the morning conference more than 100 times last year accounting for almost 50% of these conferences.

The Division serves on more than 15 key committees within the Department and more than 15 additional committees at the School of Medicine or University level. At the state level, Dr. Haller was selected as President-elect of the Missouri Chapter of the American Academy of Pediatrics.

The leadership of Division members is also seen at the national level. Dr. King served on the working group for development of the pediatric resident resilience through the American Academy of Pediatrics. Dr. Wathen served as Medical Director for the AHA Pediatric Emergency Assessment, Recognition, and Stabilization Program (PEARS). Dr. Halloran was active on board for a national research network, Birth Outcomes through Research in Newborns (BORN).

Division members provide peer-reviews in several areas for more than a dozen separate publications and reviewed abstracts for six different meetings. In 9 of the last 12 months, members of the Division were interviewed for stories
related to the health of children for local papers, radio stations, and television as well as national websites.

From a research perspective, the Division led three workshops and presented more than 20 abstracts at seven different local/regional/national meetings with more than half involving trainees. There were a total of six peer-reviewed publications ([Halloran, Broom, King] over the past year. Grant support included eight different grants including four projects with Division members as principal investigators ([Narayan, Halloran, Broom, King]). Three additional grants were submitted and unfunded.

Division awards included top teaching awards for both Ms. Rhyne and Dr. Narayan, Ms. Borawski’s SLU Star award, Dr. King’s AAMC Early Career Women Faculty Professional Development Seminar attendance, Dr. King’s certificate of excellence in educational scholarship award, Dr. Halloran’s Dr. Terry Leet Researcher Award, Dr. Naseer’s YWCA Leader Award, and Dr. Ladage’s Professional of the Year Award.

**Faculty Profiles**

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

**Matthew A. Broom, MD**  
Assistant Professor, Adjunct Assistant Professor-Health Care Ethics  
Special Interests: Medical education, communication, professionalism and improving healthcare outcomes  
Board Certification: General Pediatrics  
Medical College: Saint Louis University School of Medicine  
Residency: Saint Louis University, Cardinal Glennon Children’s Medical Center

**Mark C. Eddy, MD**  
Associate Professor  
Special Interest: Inherited disorders of bone and connective tissue  
Board Certification: General Pediatrics  
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: Advocacy for underserved populations, public relations, effect of media on children, health care needs of gay/lesbian/transgender/bisexual 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  
Associate 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  
Additional Degree(s): Master of Science in Public Health, University of Alabama-Birmingham

M. Susan Heaney, MD, MPH  
Professor  
Division Director, General Academic Pediatrics Division  
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: Saint Louis University, Cardinal Glennon Children’s Medical Center  
Master in Public Health: Saint Louis University School of Public Health

Marta King, MD, MEd  
Assistant Professor, Hospitalist Section  
Special Interests: Pediatric hospital medicine, medical education, curriculum development and evaluation, clinical reasoning, medical education research  
Board Certification: Pediatrics  
Medical College: University of Cincinnati School of Medicine  
Residency: Cincinnati Children’s Hospital Medical Center  
Additional Degree(s): Master in Medical Education, University of Cincinnati

Timothy Kutz, MD  
Associate Professor  
Special Interests: Child protection, head injury, forensic medicine  
Board Certification: Pediatrics, Child Abuse 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: Saint Louis University, Cardinal Glennon Children’s Medical Center

Jennifer S. Ladage, MD  
Assistant Professor  
Special Interests: Adoption and refugee medicine, International Health  
Board Certification: Pediatrics  
Medical College: Saint Louis University School of Medicine  
Residency: Saint Louis University, Cardinal Glennon Children’s Medical Center
Rashmi Narayan, MD  
Assistant Professor – resigned June 2014  
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: Saint Louis University, Cardinal Glennon Children’s Medical Center

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, Hospitalist Section  
Special Interests: Medical Education, Pediatric Palliative Care  
Board Certification: Pediatrics, 1972  
Medical College: Saint Louis University  
Residency: Saint Louis University, Cardinal Glennon Children’s Medical Center

Kevin Powell, MD, PhD, FAAP  
Associate Professor, Hospitalist Section (resigned June 2014)  
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: Saint Louis University, Cardinal Glennon Children’s Medical Center  
Fellowship: Primary Care Faculty Development, Michigan State University
<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Special Interests</th>
<th>Board Certification</th>
<th>Medical College</th>
<th>Residency</th>
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<tbody>
<tr>
<td>Chris Sallee, MD</td>
<td>Assistant Professor, Hospitalist Section Director: Hospital Medicine, resident and student education, medical informatics, sedation</td>
<td>Pediatrics</td>
<td>Saint Louis University School of Medicine</td>
<td>Saint Louis University, Cardinal Glennon Children’s Medical Center</td>
</tr>
<tr>
<td>Michelle Sineff, MD</td>
<td>Adjunct Instructor: Clinical care and education in primary care pediatrics</td>
<td>Board eligible</td>
<td>Brown University School of Medicine</td>
<td>Lutheran General Children’s Hospital, Park Ridge, IL (PGY-1) and Saint Louis University, Cardinal Glennon Children’s Medical Center (PGY-2/3)</td>
</tr>
<tr>
<td>Aline Tanios, MD</td>
<td>Assistant Professor, Hospitalist Section: Hospital medicine, medical student and resident education, quality improvement, medically complex care</td>
<td>General Pediatrics</td>
<td>Lebanese University</td>
<td>University of Arkansas for Medical Sciences and Washington University School of Medicine</td>
</tr>
<tr>
<td>David Wathen, DO</td>
<td>Assistant Professor, Hospitalist Section: Hospital medicine, medical student and resident education, quality Improvement and reducing waste in healthcare, safe sleep in the inpatient setting</td>
<td>Pediatrics</td>
<td>Kirkville College of Osteopathic Medicine</td>
<td>Saint Louis University, Cardinal Glennon Children's Medical Center</td>
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**PEDIATRIC NURSE PRACTITIONERS**

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<thead>
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<th>Name</th>
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<th>Medical Training</th>
<th>Additional Degree(s):</th>
<th>Certification</th>
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<tbody>
<tr>
<td>Ashley Borawski, PNP</td>
<td>Breastfeeding support and promotion, maternal postpartum depression</td>
<td>Pediatric Nursing Certification Board</td>
<td>Bachelor of Science in Nursing, Saint Louis University School of Nursing</td>
<td>Master in Nursing, University of Missouri – Columbia</td>
<td>Lactation Counselor (CLC), Academy of Lactation Policy and Practice</td>
</tr>
</tbody>
</table>
Elizabeth Rhyne, PNP

Special Interests: Breastfeeding support and promotion, health outcomes research, maternal postpartum depression

Board Certification: Pediatric Nursing Certification Board

Medical Training: Bachelor of Science in Nursing, Saint Louis University School of Nursing

Additional Degree(s): Master in Nursing, University of Missouri Saint Louis

Certification: Lactation Counselor (CLC), Academy of Lactation Policy and Practice

Physician Assistant

Genevieve Del Rosario, MHS, PA-C

Adjunct Assistant Professor, Doisy College of Health Sciences Department of Pediatrics

Special Interests: Medical education, perinatal health

Board Certification: Physician Assistant Certification

Medical Training: Master of Public Health, Duke University

Research Highlights

The Division 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 other institutions. Below is a brief summary of the research conducted by members of the Division.

Matt Broom is the principal investigator on a privately-funded three-year grant ($461,403) via the Maternal Child and Family Health Coalition entitled Happy Mothers, Healthy Families aimed at improving the identification, evaluation, treatment and referral of St. Louis City mothers with postpartum depression. Co-investigators on the project include Beth Rhyne, Ashley Borawski, Rashmi Narayan, Gene LaBarge, and Donna Halloran. This project includes salary support for both Borawski and Rhyne as well as salary support for social worker and a psychologist housed in Danis Pediatrics. Dr. Broom is also the principal investigator evaluating a novel, online professionalism curriculum (Professional Bioethics in Graduate Medical Education), supporting his salary as an Adjunct Professor via the Albert Gnaegi Center for Health Care Ethics. He is the principal investigator on an internally-funded program evaluating a unique, knowledge-based text messaging curriculum among pediatric residents (Text4Peds: Integrating a Text Messaging Curriculum into Pediatric Resident Education). †Dr. Lauren Draper (resident) and †Greg Adamson (medical student) assisted Dr. Broom with this project which resulted in two publications (see below). He is also a co-investigator (PI: Rashmi Narayan) on an internally-funded project entitled Text4Teens: Preference and feasibility evaluation of text messaging as a therapeutic intervention among obese adolescents. He is the co-investigator (PI: Stuart Slavin) on a nationally-funded two-year project via the Josiah Macy Jr. Foundation and the Institute on Medicine as a Profession entitled An Integrated Approach to Enhancing Resident and Medical Student Professionalism at Saint Louis University School of Medicine. Additionally he is developing a program to evaluate the use of an integrated audience-response system as teaching tool among pediatric residents and medical students.

Ashley Borawski remains an active member of the Happy Mothers, Healthy Families project led by Dr. Matt Broom. Along with Ms. Rhyne, she presented a workshop and poster entitled Texting as an adjunct treatment for urban...
mothers with perinatal mood disorders” at the Postpartum Support International Conference. She also presented findings on text-messaging as a platform at the national pediatric nurse practitioner meeting. Ms. Borawski is also formalizing her work in lactation counseling from a research perspective presenting at the SLU Primary Care Symposium along with Ms. Rhyne and Dr. Donna Halloran. She is also assisting Ms. Rhyne as she completes her project exploring the relationship between maternal addiction and breastfeeding.

Mark Eddy worked with a team from the US Vaccine Adverse Events Reporting System (VAERS) on a unique adverse event in a child with congenital adrenal hyperplasia. Findings were presented with Dr. Eddy as senior author at the PAS meeting in Vancouver. In addition, he worked with †Sarah Bryant (resident) on a case report involving a unique thalamic infarct in a type I diabetic with a prothrombin gene mutation. Dr. Bryant was able to present these findings at the PAS meeting in Vancouver.

Donna Halloran 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 published two studies based on these findings this year. She remains on a NIH K08 clinical scientist research career development award which will sponsor her research for another year and plans to complete her PhD in Health Outcomes in Spring 2015. Dr. Halloran assisted Beth Rhyne in her successful application to the College for Public Health and Social Justice PhD program beginning Fall 2014. She has also mentored her as she successfully applied for her first IRB as principal investigator. She mentored Dr. Broom in the successful renewal of his first foundation grant and the unsuccessful submission of his first NIH grant. She assisted Dr. LaBarge in his first abstract submission for a national meeting and Dr. Narayan managing an internal grant. †Last, she served as co-author on a project lead by a pediatric resident which was published this year.

M. Susan Heaney is 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. Dr. Heaney is the site investigator for the Continuity Research Network (CORNET) of the APA and has mentored residents in poster presentation on the “Bright Futures Preventive Services Project” and on “Adolescent Immunizations in the Medical Home” project.

Marta King is the principal investigator of a Council on Medical Student Education in Pediatrics funded study focused on development and multicenter validation of a written pediatric history and physical exam evaluation (P-HAPEE) tool. She is also the center PI for a Med-U funded grant study comparing third year medical student oral case presentation teaching methods. Dr. King published the work she completed while at University of Utah on the Effect of Gastrojejunal Feedings on Visits and Costs in Children with Neurologic Impairment” in the Journal of Pediatric Gastroenterology and Nutrition. She presented the project on identification and management of overweight and obese pediatric hospitalized patients at the Pediatric Academic Societies meeting. †Dr. King served...
as a research mentor for a resident project comparing two different student general pediatric clinic scheduling models. The resulting work was presented at the Council on Medical Student Education in Pediatrics and the Academic Pediatric Societies meeting as well as the local pediatric and primary care research symposia where it won third price for resident research project. A mentored resident case report describing an infant with dacrocystocele was published in *Pediatrics in Review*. †A case of multiple magnet ingestion she worked with another resident was accepted for publication. ‡Dr. King was awarded a certificate of excellence in educational scholarship after graduating from the Academic Pediatric Association Educational Scholars Program, a three year competitive faculty development fellowship.

**Gene LaBarge** is a co-investigator on funded grants to identify and treat postpartum depression in St. Louis City mothers and to determine the feasibility of using text messaging as a therapeutic intervention among obese adolescents. Dr. LaBarge also served as first author on an abstract presented at the Pediatric Academic Societies (PAS) Meeting on feasibility of postpartum depression screening in the primary care setting and co-authored a poster presented at PAS on the feasibility of text messaging to support treatment for postpartum depression with Dr. Matt Broom.

**Jennifer Ladage** submitted a special projects grant to provide comprehensive health care to refugee children in St. Louis through the Missouri Foundation for Health. A similar grant was submitted to the Rita and Alex Hillman Foundation. Although neither was successful, both received positive feedback after successfully completing a competitive first round of applications and constructive criticism allowing for potential resubmissions.

**Rashmi Narayan** served as principal investigator for an internal grant *Text4Teens: Preference and feasibility evaluation of text messaging as a therapeutic intervention among obese adolescents* in which she began recruiting subjects. She also served as a primary care mentor on the HRSA Grant *The Saint Louis University Urban Underserved MD/MPH Program and Medical Curriculum*. She served as a co-investigator for the *Happy Mothers, Healthy Families* project with Dr. Matt Broom.

**Shahida Naseer** has been active in completing various quality assessment and improvement projects across the Division and Danis Pediatrics.

**Beth Rhyne** has been an active member of the *Happy Mothers, Healthy Families* project led by Dr. Matt Broom. Along with Ashley Borawski, she presented a workshop and poster entitled *Texting as an adjunct treatment for urban mothers with perinatal mood disorders* at the Postpartum Support International Conference. She and Ashley also presented findings on text-messaging as a platform at the national pediatric nurse practitioner meeting. She was co-author on several posters presented at the PAS meeting this year and was sole author on an article about screening for postpartum depression in *Pedsline* this Spring. Ms. Rhyne has also begun to explore her work in lactation counseling from a research perspective presenting at the SLU Primary Care Symposium along with Ms. Borawski and Dr. Donna Halloran. She has successfully applied to begin a PhD in Public Health Outcomes Research through the College of Public Health and Social Justice. She has successfully completed her first IRB as principal investigator as she begins to focus on her area of interest, breastfeeding. Specifically, she has begun to explore the relationship between neonatal abstinence syndrome and breastfeeding intention and success. †Ms. Rhyne has recruited medical students to work on this project with her.
Heidi Sallee served as the primary mentor for several resident research projects which were presented at local meetings. Dr. Sallee is also currently collaborating with faculty at the School of Public Health, developing and testing a child safety intervention.

Aline Tanios is the local principal investigator on a Value in Inpatient Pediatrics Network (VIP) as part of the Quality Improvement Innovation Networks (QuIIN) of the AAP to standardize the care for children with community-acquired pneumonia. The project will take place over a full year and include a series of Plan-Do-Study-Act cycles. Dr. Tanios is working with several residents on the data collection and intervention for this project. In addition, she is working on a Communication Culture project with Dr. Werner and several residents to address a medical culture of silence amongst specialists and ancillary staff during inpatient care.

David Wathen has been active in improving inpatient medical care, including obtained private funding for Safe Sleep program for infants in the hospital and quality improvement efforts in the inpatient setting. He has mentored residents for a poster presentation on Chronic Abdominal Pain and Hematuria and published his work on blood cultures in children with cellulitis.

**Publications**

As mentioned previously, education is a key portion of the mission for the Division. Therefore, all abstracts, presentations, and publications involving resident or student participation is noted with a cross (†)


ABSTRACTS/PRESENTATIONS


†Broom MA, Guild C, Ahmadi Nasab Emran S. Professional Bioethics in Graduate Medical Education. Pediatric Hospital Medicine Conference (New Orleans, LA), Aug 2013 [Poster]

Broom M, Ladley A, LaBarge G, Rhyne E, Narayan R, Borawski A, Halloran DR. Happy Mothers, Healthy Families: Feasibility of Text Messaging as an Adjunct Treatment for Postpartum Depression. Pediatric Academic Societies (Vancouver, BC, Canada), May 2014 [Poster]; Saint Louis University Pediatric Science Days (St. Louis, MO), Apr 2014 [Platform]

†Bryant S, Aung S, Rickard M, Eddy M. Thalamic infarction in an adolescent with type I diabetes mellitus, hyperglycemia and prothrombin (G202010A) gene mutation. Pediatric Academic Societies (Vancouver, BC, Canada), May 2014 [Poster]

Datwani H, Harrington T, Williams SE, Eddy M. Adverse events following immunization (AEFI) among persons with congenital adrenal hyperplasia (CAH) in the US Vaccine Adverse Events Reporting System (VAERS) 1990-2013. Pediatric Academic Societies (Vancouver, BC, Canada), May 2014 [Poster]

†Draper LR, Adamson GT, Broom MA. Text4Peds: Feasibility of a Text Messaging Curriculum for Pediatric Residents. Pediatric Academic Societies (Vancouver, BC, Canada), May 2014 [Poster]; Saint Louis University Pediatric Science Days (St. Louis, MO), Apr 2014 [Platform]; Saint Louis University Primary Care Research Symposium (St. Louis, MO), Apr 2014 [Poster] (Awarded 2nd Place overall).


†Hu E, King M. Failure to thrive and abnormal tongue movements at a well child check. Pediatric Hospital Medicine (New Orleans, LA), Aug 2013 [Poster]

King M, Nkoy F, Maloney C, Mihalopoulos N. Identification and management of hospitalized overweight and obese children. Pediatric Academic Societies meeting (Vancouver, BC, Canada), May 2014 [Poster]

King M, Wilkins V, Chavolla-Calderon M. Is a Pediatric Hospital Medicine Resident Elective Needed? Saint Louis University Pediatric Science Days (St. Louis, MO), Apr 2014 [Poster]; Saint Louis University Primary Care Research Symposium (St. Louis, MO), Apr 2014 [Poster]

King M, Hobson-Rohrer W. Words of Wisdom for the Wards. Saint Louis University Primary Care Research Symposium (St. Louis, MO), Apr 2014 [Poster]

Ladage J. Premature thelarche in non-biologically related siblings adopted from Ethiopia. AAP National Convention and Exhibition (Orlando, FL), Oct 2013

†Larsen C, King M. Four year old with acute onset abdominal pain and emesis. Saint Louis University Primary Care Research Day (St. Louis, MO), Apr 2014 [Poster]

†Petersen A, King M. Obese teenager with respiratory failure and weakness. Pediatric Hospital Medicine (New Orleans, LA), Aug 2013 [Poster]

†Purandare A, Delecaris A, Holt L, Broom M. Resident Perception of an Audience Response System in Graduate Medical Education. Saint Louis University Pediatric Science Days (St. Louis, MO), Apr 2014 [Poster]

†Purandare A, Delecaris A, Holt L, Broom M. Resident Perception of an Audience Response System in Graduate Medical Education. Saint Louis University Primary Care Research Symposium (St. Louis, MO), Apr 2014 [Poster]

†Remus R, Sutherell J, King M. Continuity vs. Diversity of Experience: Comparing Two Ambulatory Pediatric Clerkship Block Scheduling Models. Council on Medical Student Education in Pediatrics meeting (Ottawa, Canada), Mar 2014 [Poster]; Pediatric Academic Societies (Vancouver, BC, Canada), May 2014 [Poster]; Saint Louis University Primary Care Research Day (St. Louis, MO), Apr 2014 [Poster] (Awarded 3rd place overall)

Rhyne E, Borawski A. Texting as an adjunct treatment for urban mothers with perinatal mood disorders. Postpartum Support International Conference (Chapel Hill, NC), Jun 2014 [Poster]

Rhyne E, Borawski A, Halloran DR. Lactation counseling in a primary care clinic. 3rd Annual Saint Louis University Primary Care Symposium (St. Louis, MO), Apr 2014 [Poster]

Rhyne E, Ladley A, Borawski A. To evaluate the feasibility, perception, and influence of text messages as an adjunct treatment for urban mothers, who have screened positive for postpartum depression (PPD) with the Edinburgh Postnatal Depression Scale (EPDS) in an academic pediatric clinic. National Association of Pediatric Nurse Practitioners (Boston, MA), Mar 2014 [Platform]

Rhyne E, Borawski A, Ladley A, Broom M. Texting as an Adjunct Treatment for Urban Mothers with Postpartum Depression. Postpartum Support International Annual Meeting (Chapel Hill, NC), Jun 2014 [Poster]

Rhyne EA, Borawski AB, Ladley A, LaBarge GM, Broom MA. Text messaging as an adjunct treatment for mothers with postpartum depression. National Association of Pediatric Nurse Practitioners Conference (Boston, MA), Mar 2014 [Platform]

†Rozier M, Morita D, King M. Neuroleptic Malignant Syndrome? You’re getting warmer… Pediatric Hospital Medicine (New Orleans, LA), Aug 2013 [Poster]

Wathen D. Safe sleep in the inpatient setting. Pediatric Academic Societies (Vancouver, BC, Canada), May 2014 [Poster]

†Wehrmann M, Wathen D. Chronic abdominal pain and microscopic hematuria: Could it be Nutcracker Syndrome? Saint Louis University Primary Care Symposium (St. Louis, MO), Apr 2014 [Poster]
WORKSHOPS


Broom M, Ladley A. Workshop: Developing screening, treatment, and support in pediatric primary care. Postpartum Support International Annual Meeting (Chapel Hill, NC), Jun 2014

Rhyne E, Borawski A. Texting as an adjunct treatment for urban mothers with perinatal mood disorders. Postpartum Support International Conference (Chapel Hill, NC), Jun 2014

GRANTS SUBMISSIONS – UNFUNDED

Missouri Foundation for Health, Special Project Grant
Pediatric Refugee Comprehensive Health Initiative
Jennifer Ladage – Principal Investigator
Overall goal: Establish comprehensive health clinic for newly-arrived refugees to complete CDC recommended care and improve assimilation into health care system

National Institute of Mental Health R34 grant
Happy Mothers, Healthy Families text-messaging for post-partum depression
Matt Broom – Principal Investigator
Donna Halloran – Co-investigator
Overall goal: Expanding postpartum depression screening to the prenatal period; Collaboration with Department of Obstetrics and Gynecology

†Rita and Alex Hillman Foundation, Hillman Innovation in Care Grant
Pediatric Refugee Comprehensive Health Clinic Initiative
Jennifer Ladage – Principal Investigator
Overall goal: Develop home visitation program for newly-arrived refugees in order to complete CDC recommended care and improve assimilation into health care system

GRANTS AWARDED

Albert Gnaegi Center for Health Care Ethics at Saint Louis University
6/12-6/14 10% effort
Professional Bioethics in Graduate Medical Education
Matthew Broom – Principal Investigator
Overall goal: To develop and implement online modules on professionalism and bioethics that relate to the daily practice of residents in training

Department of Pediatrics at Saint Louis University
3/13-4/14 $2,052
Text4Peds: Integrating a Text Messaging Curriculum into Pediatric Resident Education
Matthew Broom – Principal Investigator
Overall goal: Creation of series of informational text messages, based on board-relevant pediatric facts, to offer to the pediatric and combined medicine-pediatric residents as an optional adjunct to their pediatric board preparation

Fleur-de-Lis Award, CGCMC
7/13-5/15 $23,684
Text4Teens: Preference and feasibility evaluation of text messaging as a therapeutic intervention among obese adolescents.
Rashmi Narayan – Principal Investigator
Matthew Broom, Gene LaBarge – Co-investigator
Overall goal: Determine if text messages are a viable method of communication between obese adolescents and pediatric providers

HRSA Grant
7/12-6/15 $167,000
Academic Administrative Units in Primary Care Grant, Collaborative with Family Medicine, General Internal Medicine and General Academic Pediatrics.
M. Susan Heaney, MD, MPH – Co-investigator
Overall goal: Form a collaborative between Family Medicine, Internal Medicine and Pediatrics; Increase the numbers of medical students and residents choosing primary care as their profession

Josiah Macy Jr. Foundation, Institute on Medicine as a Profession
7/13-6/15 10% effort
An Integrated Approach to Enhancing Resident and Medical Student Professionalism at Saint Louis University School of Medicine
Matthew Broom – Co-investigator
Overall goal: Development of a multi-factorial curriculum as an educational intervention focusing on professionalism, mindfulness and avoiding burn-out in graduate medical education

Maternal, Child and Family Health Coalition
7/12-6/15 $461,609
Happy Mothers, Healthy Families: Successful Identification, Referral, Treatment and Follow-up of Postpartum Depression in St. Louis City Mothers
Matthew Broom – Principal Investigator
Donna R Halloran, Gene LaBarge, Rashmi Narayan, Elizabeth Rhyne – Co-investigators
Overall goal: To improve the screening, treatment and follow-up of St. Louis City mothers with postpartum depression.

NICHD K08
9/10 – 9/15 $729,000
Burden of Late-Preterm Births
Donna R. Halloran – Principal Investigator
Overall goal: To determine if late-preterm infants are at increased risk for morbidity beyond the perinatal period
Richard T. Sarkin Foundation for Medical Education, COMSEP Grant
4/14-4/16 $5000
Development and Multicenter Validation of a Written Pediatric History and Physical Exam Evaluation (P-HAPEE) Tool
Marta King – Principal Investigator
Overall goal: To develop and validate a method for evaluating pediatric written history and admission notes.
M=includes matched donation from Department

HONORS

Borawski A: SLU Star award for exemplary service

Broom M: Elected Academic Pediatric Association Region VI Co-Chairman; Nominated for Emerging Leader Award from the Maternal, Child and Family Health Coalition

Halloran D: Dr. Terry Leet Researcher Award, Maternal, Child & Family Health Coalition; Elected to the Research Scholars Executive Committee, Academic Pediatric Association; Became President-Elect of the Southern Society for Pediatric Research

King M: Certificate of excellence in educational scholarship from the American Pediatric Association; AAMC Early Career Women Faculty Professional Development Seminar attendee; Pediatric Hospital Medicine Moderator at PAS

Ladage J: Professional of the Year Award 2014, awarded by Bethany Christian Services

Narayan R: Best Teacher for a Primary Care Pediatrician – Saint Louis University Department of Pediatrics

Naseer S: SLU Honoree for the 2013 YWCA Leader Award

Rhyne E: Top Teacher Award for Outstanding Teaching by a Nurse Practitioner – Saint Louis University Department of Pediatrics; Accepted into SLU College of Public Health and Social Justice PhD program for Fall 2014

PRESENTATIONS (EDUCATION)

Resident Education:
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. As Pediatric Residency Program Director, Dr. Sallee successfully applied for ACGME Annual Program Review receiving continued full accreditation with one citation. Education of residents is, of course, a major focus of the Division. The Division provides clinical education to pediatric and family medicine residents before, during, and after rounds each day of the inpatient service at CGCMC and St. Mary’s, as well as, the outpatient clinics in Danis Pediatrics. The Division has embraced family-centered rounds allowing education of the team as well as the family simultaneously.

In addition, formal lectures are provided by the Division throughout the year. Specifically, the Division provided
resident noon conference more than 30 times this year accounting for more than 15% of the noon conferences provided by faculty members throughout the Department. The Division also provided or supervised the morning conference more than 100 times this year accounting for almost 50% of these conferences. Division members also regularly attended morning report while on service providing guidance and clinical expertise every day.

Dr. Gene LaBarge served as the Continuity Clinic curriculum director developing a weekly reading for interns to be reviewed by continuity clinic faculty each day over the course of the week. Knowledge obtained from the readings was tested using weekly questions developed by Dr. LaBarge.

Drs. Halloran and Heaney were in charge of the Evidence-Based Medicine program for residents. This year, the form was converted from oral presentations to a written format based on feedback from interns/residents. After validating the evaluation form based on a series of initial submissions, the form is now used across the Division to evaluate residents during their ambulatory rotation in Danis Pediatrics.

Dr. Halloran was also director of the resident quality improvement and research requirement for the Department. She participated in orientation, supervised CITI training, and assisted with project development and completion. The number of residents presenting within and outside the Department has continued to increase due, in large part, to the strong mentorship of many members of the Division. This past year, pediatric residents won the top three awards at the Saint Louis University Primary Care Symposium, clear evidence of the superior research and quality improvement work being conducted by pediatric residents.

Dr. Broom also provided noon conference lectures to residents outside the Department, specifically internal medicine, family medicine, and Bellville family medicine, and neurology-psychiatry. Topics covered the field of professional bioethics. In addition, he provided an introduction to ethics during the university-wide Graduate Medical Education orientation.

Overall, the Division served as mentor to % of the pediatric residents assisting with career counseling and development as well as scheduling decisions.

Medical Student Education – clinical years:

Dr. Marta King served as Associate Director of Medical Student Education. In addition to her research related to medical education, she revised feedback forms for medical students and curriculum content for individual students. A particularly valuable change for both students and faculty in the Division was the shift from random to targeted assignment in Danis Pediatrics allowing an individual student increased exposure to a single faculty member (and, of course, vice-versa). This positioned faculty members to be able to write more thoughtful letters of recommendation as well as provide more constructive feedback which evaluated progress over the course of the outpatient portion of the pediatric clerkship.

Dr. King provided the pediatric sub-internship orientation to better prepare incoming 4th year medical students for the responsibilities/expectations for the rotation.

Drs. Tanios, King, and Wathen work alongside 3rd year medical students as part of the pediatric clerkship as part of the sedations provided by the Hospitalist Section.
Several members of the Division (Noffsinger, Kutz, LaBarge, Haller, Ladage, Broom) participate in the junior lecture series. This series is provided during the lunch hour to 3rd year medical students during their clerkships. The series was repeat six times for each of the clerkship blocks. The Division members were responsible for almost 30% of these lectures providing as many as ten lectures during each clerkship.

Dr. Ladage collaborated with medical students pursuing Distinction in Global Health or in Service. She developed clinical services for immigrants attending St. Louis City’s New American Preparatory Academy that were identified as having medical issues which impeded their school performance. Students assisted as patient navigators assisting newly-arrived refugee families with medical appointments, with school-based interactions, and initial comprehensive medical evaluations. One medical student even assisted with the preparation of the Hillman’s Innovation Care Grant (see Research).

Overall, the Division serves as mentor for more than a dozen medical students assisting with schedule development, career choice, interviewing techniques, CV development, and networking as well as providing letters of recommendation and research opportunities.

Medical Student Education – preclinical years:

In addition to the large amount of service provided by the Division to assist medical students in the preclinical years (see Service), Dr. Broom served as a faculty preceptor for the Death and Dying Course (BD-200) with 2nd year medical students. Dr. Tanios participates in the Inter-Professional Team Seminars with a focus on integrating education across disciplines in the allied health and medical field. Finally, Dr. Haller provided lectures on Health Literacy and Cultural Competency to first-year medical students.

As mentioned under service, Dr. Haller led the Pediatric Interest Group. This included a series of lectures on topics designed to prepare students with an interest in pediatrics for the clinical years.

Several faculty also lead courses for the preclinical and clinical years (see Courses).

Graduate Students:

Ms. Genevieve DelRosario was the Director of Clinical Education for the Physician Assistant Department at Saint Louis University. She worked within the Division seeing patients in Danis Pediatrics. Six physician assistant students performed their clinical pediatric rotation within the Division seeing patients with attending physician in Danis Pediatrics.

In addition, Ms. Borawski and Ms. Rhyne supervised nurse practitioner students from Saint Louis University, Maryville University, and the University of Missouri, St. Louis. Such students rotated through Danis Pediatrics weekly to gain experience in the care of pediatric patients.

Dr. Haller is also a regular speaker for the Washington University Physician’s Assistants program where he discusses health care issues and the LGBT community.
Undergraduates:

Several undergraduate students who are interested in a career in medicine worked with members of the Division, shadowing them during their clinical duties and experiencing the “real-life” of a pediatrician in academic medicine.

Fellows:

Dr. Halloran supervised the transition of the Introduction of Academic Medicine course to Dr. Marya Strand, a member of one of the divisions which house fellows. She also helped Dr. Strand develop a new curriculum for fellows across the Department to be implemented this coming year.

Faculty/University-wide Education:

Although the primary educational focus of the Division is resident and medical student education, members were also strong participants in faculty development seminars, research colloquia, and other Department-wide and University-wide educational endeavors.

Dr. Haller as Associate Co-Chair for Faculty Development was involved with all aspects of faculty development including topic selection and scheduling (see Service). Following his own challenges with the Maintenance of Certification (MOC) requirements from the American Board of Pediatrics, Dr. Haller developed a workshop on MOC as part of the faculty development curriculum. He followed this with an MOC Salon in which members of the faculty could attend and make progress toward completion of their MOC. This program was very well-received and heavily attended – evidence of not only the pressures members of the Department were feeling, but also the usefulness of his “intervention”. The success of the MOC Salons has led to a series of invitation to share the program around the country (see Invited Lectures). Another faculty development workshop was provided by Dr. Broom on use of the Audience Response System in teaching.

Dr. Haller decided to take advantage of the open Wednesday morning 8 a.m. grand rounds slot in the Summer of 2014 by repeating the faculty development workshops offered throughout the year. This allowed faculty with previous commitments to attend workshops they had missed and was also very well-received.

Drs. Broom and Haller presented a unique pediatric grand rounds entitled “Engaging Millennials in Medical Education” providing Department-wide training on cutting edge techniques in education including Twitter. Dr. Haller was also called on for his expertise providing a lecture on teaching skills to the Department of Gastroenterology (Teaching Skills: The One Minute Preceptor). Dr. Eddy also participated in a grand rounds discuss adverse event reporting following childhood immunizations.

Both Drs. Narayan and Broom presented their research during the pediatric research colloquium. In fact, Dr. Broom presented during two colloquia on different research endeavors.

Dr. Narayan was invited to speak at the Saint Louis University Primary Care Symposium this past year, “Embarking Down the Road of Clinical Research: 1 TXT @ A Time”. She discussed her early experience with research including
her internal grant. Dr. Halloran was invited to speak at the Saint Louis University Society for Women in Medicine discussing her research career to date, “Birth certificates and infant outcomes and mentors, oh my!”

Invited Lectures:

Evidence of an increasing regional and national reputation for the Division is invited lectures. The Division understands that education should be pursued beyond our own trainees and colleagues.

Dr. Chris Sallee was invited to speak at the EPIC User Group Meeting in Wisconsin, “Improving Hyperspace – One Star at a Time” evidence of his increasing expertise in the field of the electronic record.

Ms. Borawski and Ms. Rhyne were invited to speak at the Advanced Nurse Practice Counsel Quarterly Meeting regarding their work in a primary care setting, “Danis Pediatrics: An Academic Primary Care Clinic”.

At the Association of Pediatric Program Directors meeting, Dr. Heidi Sallee was asked to discuss her success in navigating academia as an educational scholar, “You Can Be A Successful Educational Scholar: Developing Your Scholarship Roadmap Through Use of Expert Research Mentoring”.

Dr. Haller was invited to speak at Children’s Mercy Hospital’s Grand Rounds “LGBT Health: Implications for Teens and Families”. He also led a webinar for the Missouri Department of Health and Senior Services on immunizations, “Scheduling and Spacing of Pediatric Immunizations with Emphasis on Pneumococcal and Rotavirus Vaccines”. Lastly, he was invited to speak at the Missouri Health Equity Collaborative Conference, “Communicating Effectively About Health Disparities”.

Dr. Kutz is clearly sought after as an expert in child abuse assessments. He improves the child abuse knowledge base of primary care providers across the State of Missouri via the Missouri SAFECARE Network. He was invited to speak at the Southern Illinois Death Investigation Conference in Fairview Heights, IL; the Missouri Child First Training in Springfield, St. Louis, and Cape Girardeau; and the Midwest Pediatric Trauma Conference. He also led the training program regarding child abuse and victim interviewing at the Missouri Finding Words/ChildFirst program.

Locally, Ms. Rhyne presented at the Young Science Professionals meeting at O’Fallon Township High School. Dr. Ladage gave a series of lectures at the Green Park Lutheran School and Lutheran High School on medical issues in international adoption. Finally, Dr. Broom summarized his research findings for the Maternal, Child and Family Health Coalition (see Research).

Courses:

- Acting Like a Doctor, Course Director, elective medical students (Haller*)
- Adolescent Medicine Rotation, required all residents (Heaney)
- Ambulatory Pediatrics Rotation, required all interns (Division)

- Ambulatory Pediatrics Rotation, elective medical students (LaBarge*)
- Child and Adolescent Development, Course Co-Director (Haller*)
- Community Advocacy through Resident Education Rotation, required all interns (Narayan*)
Community Health and Advocacy Education for Medical Students in Pediatrics, elective medical students (Narayan*)

Observership for Pediatric Residency Program in Port Au Prince, Haiti (Kutz*)

Palliative Care, elective residents (Hospitalist Section faculty)

Pediatric Advanced Life Support (PALS) Course, Co-Director (Broom*)

Professionalism in the Medical Narrative, Co-Course Director (Broom*, LaBarge*)

Professional Bioethics in Graduate Medical Education, on-line course residents (internal medicine, pediatrics, neurology, psychiatry, family medicine) (Broom*)

Teaching Resident Rotation, elective residents (Division)

Text4Peds, educational texting program providing daily pediatric board-related facts to residents and faculty (Broom)

ADVOCACY/SERVICE

Advocacy for the needs of all children, particularly the underserved, is a major focus of the Division. There are several ways in which this advocacy takes place. Not only does the Division serve on various committees at the local, department, school, university, regional, and national level, but they also maintain an important voice within local media and the Missouri state legislature.

Active Committees:

Below is a list of committees on which members of the Division actively serve. Leadership positions are noted with an asterisk (*). As mentioned above, education is also a priority for the Division. Much of the advocacy for children is conducted through service on educational boards and committees; such positions are noted with a cross (†).

Community Boards:

AAP, Pediatric News Advisory Board (Powell)

Bethany Christian Services Training Workshops for Adopting Families (Ladage)

†Child Well-Being Symposium, Planning Committee (Haller)

†Girl Scout Leader (H Sallee)

Concord Trinity United Methodist Church, Governance and Operational Oversight Board (Broom)

Cornerstone Center for Early Learning, Board of Directors (Narayan)

First United Methodist Church in O’Fallen, Chancel Choir (Noffsinger)

†Mary Queen of Peace School, Parent Volunteer (H Sallee)

Mary Queen of Peace, Lector and Eucharistic Minister (H Sallee)

†McKendree University Team Physician (Noffsinger)

Council on Foster Care, Adoption, and Kinship Care (Ladage)
†Cub Scouts (Broom*)

†English as a second language to Afghan Refugees (Naseer)

Family Adoption program for Afghan Refugees, International Institute (Naseer)

†Gateway Media Literacy Project (Haller)

Health and Dental Care for Kids, Board of Directors (Heaney*, Narayan)

Interfaith Partnership of Greater St. Louis (Naseer)

Missouri Foundation for Health Board (Haller*)

MOMs: Moms of Majella Ministry (Tanios)

†O’Fallen Township High School, Team Physician and Medical consultant (Noffsinger)

†Preschool Sunday Morning Coordinator, Gateway Christian Church (Ladage*)

Sandwich Making for the Poor Ministry (Tanios)

United Methodist Men at Concord Trinity United Methodist Church (Broom*)

†Upward Basketball (Broom*)

Vision for Children at Risk, Board of Directors (Narayan)

Warm it Up: Coat drive for families in Danis Pediatrics Clinic (Borawksi, Rhyne*)

**Department of Pediatrics Committees:**

†Associate Chair for Education (H Sallee)

†Associate Co-Chair for Faculty Development (Haller*)

†Associate Director of Medical Student Education (King*)

Advocacy Committee (Haller*, Kutz)

Clinical Competency Committee (H Sallee)

†Continuing Education Committee (Kutz)

†Continuity Clinic Task Force (Haller, Naseer, Ladage, H Sallee, Heaney*)

Division Directors Group (Heaney)

Electronic Health Record Optimization Team, Danis Pediatrics (C Sallee, Borawski, Rhyne, Broom)
†Excellence in Pediatric Education Team (Tanios, Powell, H Sallee*, Narayan, King)

†Faculty Development Planning Committee (Haller*, Heaney, LaBarge)

Finance Committee (Haller*)

†Haitian Residency – U.S. Observership (Kutz*)

†Housestaff Advisory Committee (Haller, Naseer, Broom, Heaney)

Mentoring Committee, Chair (Heaney*, H Sallee)

Pediatric Research Committee (Heaney)

†Pediatric Residency Program Director (H Sallee*)

†Pediatric Resident Recruiting Committee (Tanios, Ladage)

†Pediatric Retreat, First-Year (Ladage*)

†Pediatric Retreat, Second-Year (Kutz*)

†Pediatric Retreat, Third-Year (Haller*)

Program Evaluation and Improvement Committee (Broom, Tanios, H Sallee*)

†Resident QI/Research Projects, co-director (Halloran*)

Strategic Initiative Subcommittee – Research (Halloran)

Strategic Planning Committee (Broom, Haller, Halloran, H Sallee)

Strategic Planning Process Champion (Haller*)

SSM and Cardinal Glennon Children’s Medical Center Committees:

Children’s Hospital’s Solutions for Patient Safety

Pressure Ulcers Group, Physician leader (Wathen*)

Falls Group, Physician leader (Wathen*)

Clinical Care Committee (C Sallee)

Credentials Committee (LaBarge)

EHR Oversight and Governance Committee, Chair (C Sallee*)

Ethics Committee (Powell)
Family Education Resource Committee (LaBarge)

Foreign Adoption Clinic, Director (Ladage*)

Gateway Coalition of Reach Out and Read, Medical Director (Haller*)

Glennon Gallop Committee, Physician Chair (Broom*)

Inpatient General Medical Unit, Medical Director (Wathen*)

Inpatient Pediatric Hospital Medicine Education Liaison (Wathen)

MD/RN Communication Task Force (C Sallee, Wathen*)

Medical Executive Committee (LaBarge*, Broom, H Sallee, C Sallee)

Medical Staff President (LaBarge*)

Medical Record Committee, Chair (Heaney*)

Pediatric Care, Peer Review Committee (Tanios, Powell, C Sallee)

Pediatric Quality Steering (Wathen)

Physician Advisory Committee, CGCMC Foundation (Broom, Heaney)

Primary Care Provider Communication (Wathen)

Procedural Pain and Sedation (Wathen, C Sallee)

SSM Department of Pediatrics Committee (Heaney)

SSM Division and Department Directors Group (Heaney)

SSM Focus on Pediatrics quarterly news magazine, Editor (Powell*)

SSM Health Maintenance in the Electronic Medical Record Committee (Heaney)

SSM Pediatrics Group Committee (H Sallee)

SSM Network Informatics Committee (C Sallee)

SSM St. Mary’s Health Center Newborn Nursery, Medical Director (H Sallee*)

Trauma Committee (Kutz)

Utilization Review (Wathen)
Saint Louis University School of Medicine Committees:

AAMC Faculty Forward Task Force, Chair (Heaney)

AAU Primary Care Grant Steering Committee (Heaney)

†Alpha Omega Alpha, National Honor Medical Society (Broom*)

Ambulatory Care Quality Management Committee of SLUCare (Naseer)

Area Health Education Center (AHEC) Advisory Committee (Haller)

†Class of 2016 Faculty Leader (Broom)

†Class of 2017 Faculty Leader (Broom)

†Clinical Education, Physician Assistant Director (DelRosario)

†Curriculum Management Committee (King)

Faculty Development/Academy of Educators working group (Haller)

†Gay and Lesbian Association for Medical Students (GLAMS) (Haller)

Graduate Medical Education Committee

Patient Safety Sub-Committee (H Sallee)

†Health Resource Center (Tanios, Naseer)

†Medicine Admissions Committee (Heaney)

†Military Medicine Interest Group (Broom)

†Pediatrics Interest Group (Haller)

†Physicians for Human Rights (Haller)

†Primary Care Interest Group (Haller)

†Student Progress and Planning Committee (King)

University Medical Group Managed Care Committee (Broom)

Women in Medicine and Science at SLU (WIMS@SLU) (H Sallee, Heaney)
Saint Louis University Committees:

Undergraduate Medical Education Task Force (H Sallee)

Faculty Senate, Affirmative Action and Diversity Committee (Haller)

†Inter-professional Team Seminar (IPTS) (Tanios)

President’s Diversity Council (Haller)

†Rainbow Alliance (Haller)

SLU 4You Program (Broom)

Women’s Commission Program Planning Committee (Heaney)

State Committees:

American Academy of Pediatrics – Missouri Chapter

   President-elect (Haller*)

   Board of Directors (Eddy)

Child Fatality Review Committee, St. Louis City (Kutz)

Child Fatality Review Committee, St. Louis County (Kutz)

Drug Utilization Review Board, Missouri (Haller)

Missouri Child Health Advocates through Resident Education (Narayan)

Missouri State Advisory Committee on Childhood Immunizations (Heaney)

Missouri State SAFECARE Network, Advisory Board (Kutz*)

PROMO (LGBT advocacy), President (Haller*)

Regional Committees:

Academic Pediatric Association, Region VI Co-Chairman (Broom*)

Southern Society for Pediatric Research, President-Elect (Halloran*)
National Committees:

American Academy of Pediatrics

  Section on Child Abuse & Neglect (Kutz)
  Section on Hospital Medicine, Listserv moderator (Powell*)
  Working group – Curriculum for pediatric resident resilience (King)

Academic Pediatric Association

  †Education Committee (King)
  Research Committee (Halloran)
  †Research Scholars Committee (Halloran)
  †Teaching Program Award Committee (King)
  †Teaching Award Committee (King)
  †Pediatric Educator Excellence (APEX) Steering Committee (King)

AHA Pediatric Emergency Assessment, Recognition and Stabilization Program (PEARS), Medical Director (Wathen*)

American Society for Bioethics and Humanities, Law and Bioethics Affinity Group (Powell)
  †Association of Pediatric Program Directors – Research and Scholarship Task Force (H Sallee)

Association of American Medical Colleges

  †Group on Educational Affairs (Heaney, King)
  Group on Women in Medicine and Science (Heaney, King)

Birth Outcomes through Research in Newborns (BORN) Network, Governance Committee (Halloran*)

Center for Violence and Injury Prevention, Scientific Advisory Board (Kutz*)

  †Council on Medical Student Education in Pediatrics – Research and Scholarship Task Force (King)

Helffer Society, Program Committee (Kutz)

Pediatric Hospital Medicine Education Taskforce (King)

Pediatric Research in Inpatient Setting (PRIS) Network – Site Lead (King*)
**PEER-REVIEW**

Dr. King served as a moderator for a session at the Pediatric Hospital Medicine Platform presentations at PAS in 2014. Drs. Broom and Halloran participated in a review of the Agency for Healthcare Research and Quality (AHRQ) Evidence-based Practice Center Program Systematic Review on the Treatment of Depression during Pregnancy and the Postpartum Period. Drs. Broom and King was also an invited reviewer for the Educational Guidelines – Medical Errors and Patient Safety, Decision Making and Clinical Judgment, Teaching by the Academic Pediatric Association. Dr. Halloran continues to participate in annual national grant reviews through HRSA and the APA. In addition, Division members provide peer-reviews in several areas for more than a dozen separate publications.

**Editor**

Section Editor, COMSEP “Teacher’s Guide, COMSEP Problem Sets, a Clinical Reasoning Case Based Review (King)

PREP Curriculum, Hospital Pediatrics Self-Assessment, Editorial Board (King)

**Journal Reviews**

Academic Medicine (King)

Academic Pediatrics (Halloran, King)

American Journal of Obstetrics and Gynecology (Halloran)

Clinical Pediatrics (Broom)

Hospital Pediatrics (Wathen, King)

KidsHealth.org, Expert Medical Reviewer (H Sallee)

Journal of the American Academy of Physician Assistants (DelRosario)

Journal of Graduate Medical Education (King)

Journal of Maternal-Fetal and Neonatal Medicine (Halloran)

Journal of Medical Internet Research (Broom)

Journal of Pediatrics (Broom, Kutz, Halloran, H Sallee, Eddy)

Journal of Perinatology (Halloran)

Journal of Primary Care and Community Health (Haller)

Maternal and Child Health Journal (Halloran)
In addition to traditional legislative advocacy through activity at the State and local level, Division members provide education to the community and increase the visibility of both SLU and CGCMC through media outlets. In 9 of the last 12 months, members of the Division were interviewed for stories related to the health of children for local papers, radio stations, and television as well as websites with national reach.

Matthew Broom

KMOV-TV Channel 4, 5/14 “Senators warn of carcinogen risk with e-cigarettes”

KWMU-FM 90.7, 2/14, “How much screen time is too much for kids?”
St. Louis Post-Dispatch, 11/13, “Postpartum depression support group to shut down”

KTVI-TV Channel 2, 11/13, “Cigarette Alternatives on the Rise in High Schools”


SLU Newslink, 11/13, “Helping Kids Cope While a Parent is Deployed, A SLU Pediatrician Offers Advice to Military Families” [covered by multiple internet sites]

SLU Newslink, 10/13, “Pumpkin, goblin talk fuel kids’ imagination” [covered by multiple internet sites]

KTVI-TV Channel 2, 10/13, “Halloween Stories Spark Kids Imaginations”


Ladue News, 8/13, “National Immunization Awareness Month: Protect Your Child and Others”

St. Louis Post-Dispatch, 8/13, “New School Anxiety”

Ken Haller

KMOX-AM 1120, 05/14, Importance of vaccination and measles outbreaks
KMOX-AM 1120, 05/14, Parental fears of vaccination
KMOV-TV Channel 4, 01/14, Hypothermia and kids
KTVI-TV, Channel 2, 01/14, Kids and cold weather safety
SLU Health News, 01/14, Talking to parents about kids and fever
KWMU-FM 90.7, 11/13, Media literacy and kids
KMOV-TV, Channel 4, 08/13, Kids and measles: why to vaccine
KMOX-AM 1120, 08/13, Symptoms of Lyme Disease
KMOV-TV, Channel 4, 08/13, measles outbreak in unvaccinated kids

Kevin Powell

AAP Pediatric News, Columnist, “Beyond the White Coat”

Heidi Sallee

KMOX-AM 1120, 8/13, “Allergy Warning Tattoos”
St. Louis Post-Dispatch, 8/13, “New School Anxiety”

KTVI-TV Fox2 News, 12/13, “Limiting Children’s Use of Electronic Media”

**ORGANIZATION MEMBERSHIPS**

Finally, the Division maintains active representation in several national professional organizations.

Alpha Phi Omega National Service Fraternity (King)

American Society of Bone and Mineral Research (Eddy)

American Academy of Pediatrics (LaBarge, Haller, Ladage, H Sallee, Narayan, Naseer)
  - Council on Foster Care, Adoption, and Kinship Care (Ladage)
  - Section on Hospital Medicine (Broom)
  - Section on Uniformed Services (Broom)
  - Section on Epidemiology (Halloran)
  - Section on Endocrinology (Eddy)
  - Section on Adolescent Health (Heaney)
  - Section on Telehealth Care (Heaney)
  - Quality Improvement Innovation Network (QuINN) (Heaney, Tanios)

American Medical Association (Haller)

Association of Pediatric Program Directors (H Sallee)

Academic Pediatric Association (LaBarge, Broom, Halloran, H Sallee, C Sallee, Heaney, Wathen, King, Tanios)

Council on Medical Student Education in Pediatrics (COMSEP) (H Sallee, King)

Gay and Lesbian Medical Association (GLMA) (Haller)

Missouri State Medical Association (MSMA) (Haller)

National Association of Pediatric Nurse Practitioners (Borawski, Rhyne)

Ray Helfer Society (Child Abuse Pediatrics Society) (Kutz)

Sigma Theta Tau Nursing Honor Society (Borwaski)

Society for Adolescent Health and Medicine (Heaney)
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 7 clinical programs within the Division:

- **Hematopoietic Stem Cell Transplantation:** Dr. Bhatla serves as our lead transplant physician. The HSCT program is accredited by the Foundation for Accreditation of Cellular Therapy (FACT). It is a designated transplant center for the Children’s Oncology Group and a participant in the Pediatric Blood and Marrow Transplant Consortium.

- **Neuro-Oncology Program:** Dr. Abdel-Baki serves as the director of this 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 was the first federally-designated pediatric Comprehensive Hemophilia Treatment Center in the St. Louis area.

- **Sickle Cell Anemia/Hemoglobinopathies Program:** Dr. Dolatshahi is director of this program. The Program’s previous outreach clinic in Centreville, IL has closed, but a replacement clinic in Maryville, IL is being organized.

- **Sarcoma Program:** Drs. David Greenberg (Orthopedic Oncology), William Ferguson (Pediatric Oncology), and John Dombrowski (Radiation Oncology) are the principal participants of this program which provides state-of-the-art treatment for children with bone and soft tissue sarcomas.

- **Apheresis Program:** Dr. Babic serves as the medical 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, Sarcomas, Long-term Follow-up, and Neuro-oncology Long-term Follow-up; a Hematopoietic Stem Cell Long-term Follow-up clinic has also recently been started.

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, the Pediatric Blood and Marrow Transplant Consortium, 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 is preparing an application for a Pediatric Hematology-Oncology Fellowship, under the leadership of Dr. Hugge.

The Division collaborates closely with the Saint Louis Cord Blood Bank (SLCBB), with Dr. Babic serving as Medical Director and Dr. Ferguson serving as Program Director. The SLCBB has been an FDA-licensed manufacture of umbilical cord blood units for transplantation since 2013, and remains one of only a handful of such programs. The Bank continues to expand 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.

The faculty and staff of the Bob Costas Cancer Center received one of the Exceptional Teams awards at the Cardinal Glennon Ambassador Choice Awards, June 1, 2014.

**FACULTY PROFILES**

**Mohamed S. Abdel-Baki, MD**

- **Interests:** Central nervous system tumors, globalization of cancer care
- **Board Certification:** Pediatrics
- **Medical School:** Faculty of Medicine, Cairo University, Egypt
- **Residency:** Children’s hospital at Albany medical center, Albany, NY
- **Fellowship:** Pediatric Hematology-Oncology, Baylor College of Medicine, Houston

**Salem Akel, PhD**

- **Interests:** Umbilical cord blood banking; therapeutic cell development and GTP/GMP cellular therapies production
- **Board Certification:** NA
- **Medical School:** PhD, Hematology, Athens School of Medicine, Greece
- **Residency:** NA
- **Fellowship:** Postdoctoral research fellowship, National cancer institute, NIH, USA

**Aleksandar Babic, MD**

- **Interests:** Development of umbilical cord blood banking; therapeutic apheresis
- **Board Certification:** American Board of Pathology (Clinical Pathology and Transfusion Medicine)
- **Medical School:** MD, University of Belgrade School of Medicine, Belgrade, Serbia
- **PhD, Molecular Genetics, University of Illinois at Chicago
- **Residency:** Brigham and Women’s Hospital (Clinical Pathology)
- **Fellowship:** Harvard Medical School (Transfusion Medicine)
Deepika Bhatla, MD

Assistant Professor; Clinical 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

Leili Dolatshahi MD

Assistant Professor; Director Sickle Cell Anemia/Hemoglobinopathy Program

Interests: Sickle Cell Anemia/Hemoglobinopathy, Hemostasis, Medical Education

Board Certifications: Pediatrics

Medical School: Tehran University School of Medical Science

Residency: Hurley Medical Center / Michigan State University

Fellowship: Washington University / Saint Louis Children Hospital

William S. Ferguson, MD

Bob Costas Professor of Pediatrics; Director, Division of Hematology-Oncology

Interests: Bone and soft tissue sarcomas, new drug development, hemoglobinopathies; bone marrow transplantation

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

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 Clinic,

Clinical Director, Hemostasis Program

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; Medical Director, Footprints Program
Interests:
Stem cell transplantation; developmental therapeutics; pediatric quality of life and palliative care; medical education
Board Certification: Pediatrics, Pediatric Hematology-Oncology
Medical School: University of Wisconsin-Madison
Residency: Tulane University
Fellowship:

Professional Staff

Abigail Sharamitaro, RN, MSN, CPNP, CPON
Pediatric Nurse Practitioner
Lindsay Brefeld, RN, MSN, CPNP
Pediatric Nurse Practitioner
- Adjunct Faculty, SLU School of Nursing
Lauren Delaschmit, RN, MSN, CPNP
Pediatric Nurse Practitioner
Robert Parker, RN, MSN, CPNP
Pediatric Nurse Practitioner
Kelly Smith, RN, BSN
Long-Term Follow-Up Clinic Nurse
Sarah Dorris, RN, BSN
Transplant Coordinator
Kim Laurance
Transplant Data Coordinator
Valerie Middendorf, RN, BSN
Team Leader, Bob Costas Center
Karen Imperiale, RN, BSN, CPON
Nurse, Bob Costas Center
Dawn Sleeper, RN
Nurse, Bob Costas Center
Laurin Cummins, RN, BSN
Nurse, Bob Costas Center
Anna Setien, RN
Nurse, Bob Costas Center
Ashley Hite, RN, BSN
Nurse, Bob Costas Center
Erika Hermann, RN, BSN
Nurse, Bob Costas Center
Christina Re, RN
Nurse, Bob Costas Center
Katherine Albers, RN, BSN
Clinical Discharge Coordinator
Michelle Romano, RN, MSN
Nursing Director
Kristie Schulz, RN, BSN, CPON
Nurse Educator, Hematopoietic Stem Cell Program
Diane Migneco
Medical Secretary
Paula Turdo
Medical Secretary
Mickey Ennis
Clinic Secretary
John Mossman
Clinic Secretary
Kathy Maguire
Clinic Secretary
Katherine Maxwell, RN, BSN, CCRP
Research Nurse Supervisor
Donna Marin, RN
Research Nurse
Lydia Johnson, RN, BSN
Hemostasis Nurse Coordinator
Emily Kountzman, RN, BSN
Neuro-Oncology Nurse Coordinator
Aleeza Granote, LCSW
Hematology-Oncology Social Worker
Valerie Akerson, MSW
Hemostasis Social Worker
Pam Miller, PT
Hemostasis Physical Therapist
RESEARCH HIGHLIGHTS

Mohamed Abdel-Baki, MD

Research interests include participation in the Children’s Oncology Group studies treating newly diagnosed brain and spinal cord tumors. He serves as institutional principal investigator for the Pediatric Diffuse Intrinsic Pontine Glioma (DIPG) registry and as institutional co-principal investigator for the
Medulloblastoma Translational Research Consortium. He is also interested in globalization of cancer care and therefore has been part of an international collaborative team that helps improve pediatric cancer care at the Children’s cancer center in Egypt.

Aleksandar Babic, MD

Research interests are focused on evaluation of outcomes of umbilical cord blood (UCB) transplantation, with a particular focus on UCB units manufactured at St. Louis Cord Blood Bank. Beginning in March of 2013, Dr Babic assumed the roles of Medical Director at St. Louis Cord Blood Bank and SSM Cardinal Glennon Children’s Medical Center Cellular Therapy Laboratory. This position allows a unique perspective on the process of UCB collection, processing and export for transplantation. As the field of UCB transplantation moves from studying the suitability of UCB as a source of cells for transplantation to the area of improvement of outcomes of UCB transplantation, the outcome measures are becoming an invaluable tool in assessment of UCB collection and processing methods. The goal of his research approach is to assess the impact of several UCB collection methods on safety and efficacy of the UCB transplantation with units manufactured at St. Louis Cord Blood Bank.

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”).

Leili Dolatshai, MD

Major clinical research interests include participation in clinical trial designed to improve outcome of sickle cell disease. She is co-investigator for an ongoing clinical trial, “Adjuvant low dose rituximab for the patients with severe TTP”.

William S. Ferguson, MD

Research interests include participation in front-line Children’s Oncology Group studies treating newly diagnosed osteosarcoma, Ewing sarcoma, and other soft tissue sarcomas; clinical trials evaluating new antineoplastic agents in the treatment of solid tumors, in particular neuroblastoma; personalized medicine utilizing new technologies for evaluating genetic profiles of tumors; and new drug therapies to prevent and treat complications of sickle cell disease. He is institutional Principal Investigator for the Children’s
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 Puetz, 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 VIIa, and the use of fresh frozen plasma in pediatric patients.

Shermini Saini, MD

Clinical research interests include stem cell transplantation and improving the utilization of palliative and end-of-life care in children with chronic, complex, and life-limiting illnesses. She is Medical Director for CGCMC’s palliative care program, Footprints.

Salem Akel, PhD

Direct basic science stem cell research activities at the SLCBB to further characterize and expand stem cell subpopulations isolated from perinatal sources including cord blood and umbilical cord tissue. One of the ultimate goals of the research section is to advance our understanding of UCB biology focusing on the development of methods to improve product engraftment and immune reconstitution. Such methods may involve the manipulation of the graft to expand transplantable HSC, and the isolation/expansion of specific cell populations from UCB samples that can be infused to improve transplant outcomes. Examples of such populations include Natural killer (NK), Regulatory T, and mesenchymal cells. In addition, rapid expansion of the field of regenerative medicine is prompting SLCBB to also develop its portfolio of allogeneic products for cellular therapy to include cell populations potentially suitable for tissue repair and immunomodulation. To this end we are focusing on characterization of Umbilical Cord tissue (UCT) and UCB as perinatal sources of mesenchymal stem cells (MSC).

Currently, Dr. Akel is involved in two studies of mesenchymal stromal stem cells isolated from the umbilical cord Wharton’s jelly: 1. Method Validation for Isolation, Characterization and Freezing/thawing of Umbilical Cord Mesenchymal Stromal Cells (Principle investigator) and 2. Decellularization of umbilical cord Wharton’s Jelly for tissue regenerative applications and cancer-related research: (Co-investigator with the University of Kansas Medical Center).

Additional focus of the basic research program is to develop and apply scientific sound plans to support HPCs manufacturing at the SLCBB in compliance with the FDA and other relevant regulations.
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 III, 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


HONORS AND OTHER ACADEMIC ACTIVITIES

Mohamed Abdel-Baki, MD
Reviewer, Pediatric Hematology and Oncology.
Nominee, Glennon Ambassadors award, 2014.

Aleksandar Babic, MD
Reviewer, Molecular therapy; Cells, Tissues, Organs
Transfusion Medicine Section Editor, Archives of Pathology
AABB
International Society of Cell Therapy
Academy of Clinical Laboratory Physicians and Scientists

Deepika Bhatla, MD
Excellence in Faculty Teaching Award for Subspecialty Pediatrics, June 2013
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
Member, Infection Control Committee

Leili Dolatshai, MD
American Academic of Pediatrics
American Society of Pediatric Hematology Oncology
Medical Council of Canada
Iranian Medical Council

William Ferguson, MD
Reviewer, Pediatric Blood and Cancer
Member, Editorial Board, Journal of Pediatrics
Member, Medical Advisory Board, The Bone Marrow Foundation
Society Memberships:
American Society of Hematology
American Society of Clinical Oncology
American Society of Pediatric Hematology-Oncology
Committees
Member, Voting Body, Children’s Oncology Group
Member, Executive Board, Neuroblastoma and Medulloblastoma Translational Research Consortium
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
University Medical Group Finance Committee
St Luke’s Faithful Healer Award, Cardinal Glennon Children’s Medical Center

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, Rainbow Family Camp
Camp Physician, Hemophilia Camp
Reviewer, Haemophilia, Journal of Pediatric Hematology and Oncology
Committees
Chair, Hemophilia Advisory Committee, Missouri Department of Health
Member, Genetics Advisory Committee Missouri Department of Health
Perinatal Committee, FFP subcommittee, International Society on Thrombosis and Haemostasis

Shermini Saini, MD
American Society of Pediatric Hematology-Oncology
Committees
Member, Pediatric Pain Service development team
Member, Bereavement Committee

Donna Regan, MT(ASCP)SBB
Committees
Vice President, AABB Board of Directors
Cord Blood Advisory Group, National Marrow Donor Program
Board Member, Worldwide Network for Blood & Marrow Transplantation (WBMT)
Associate Member, American Society of Clinical Pathologists (ASCP)
National Marrow Donor Program Quality Committee, Standards Committee, Proficiency Committee, and Research Committee
Member, International Society of Cellular Therapy (ISCT)
Reviewer, Transfusion Journal, Biology of Blood and Marrow Transplantation, CytOTHERAPY Journal
Salem Akel, PhD  
Chief of Scientific committee: 3rd meeting of Jordan Society of Medical laboratory Sciences/ international association of clinical chemistry (IFCC), Amman, Jordan, March 2013  
American Society of Hematology (ASH)  
American Association of Blood Banking (AABB)  
- Chair, Cord Blood Subsection Committee  
- Member Cellular Therapy Section Coordinating Committee  
- Member Cell Therapy Product Manufacturing and Testing Subsection  
- Member Novel Cell Therapies Subsection  
International Society of Cell Therapy (ISCT)

Kathy Mueckl, RN  
National Marrow Donor Program Quality Committee and Collections Committee

PRESENTATIONS

Mohamed Abdel-Baki, MD

“Chemotherapy as a first line treatment for a subtotally resected rosette-forming glioneuronal tumor of the fourth ventricle in a 6-year-old child: case report and literature review of pediatric cases” 16th International Symposium on Pediatric Neuro-Oncology (ISPNO), 6/28/2014

“Complete resolution of pituitary carcinoma with a chemotherapy regimen consisting of Carboplatin and Fluorouracil, case report and review of literature” 16th International Symposium on Pediatric Neuro-Oncology (ISPNO), 6/28/2014

Salem Akel, PhD


“Unlocking the Mysteries of Validation and Qualification: Case study approach”, AABB 2013 annual meeting, Oct. 12-15, Denver, Colorado

Director and Speaker, “Approaches to Cleaning, Disinfection and Validation for Cellular Therapy Facilities”, 2013 Cellular Therapies Webinar Series, AABB, August 20, 2013

Aleksandar M. Babic MD, PhD


“Public Cord Blood Banking: Practice and Outcomes”, Department of Pathology and Immunology, Washington University School of Medicine, Laboratory and Genomic Medicine Seminar Series 03/2014


111
Deepika Bhatla, MD


William Ferguson, MD

“Hemoglobin and Hemoglobinopathies”, Saint Louis University School of Medicine 1st year Genetics course, October 2013.

“Primary Immunodeficiency Disorders and Malignancy”, Fourth Annual Jeffrey Modell Foundation CME Conference on Primary Immunodeficiency Diseases, Saint Louis, MO, May 2014.


John Puetz, MD


“Current Controversies with FFP Transfusion” 2nd World Trauma Congress. Frankfurt, Germany, May 2014.

Shermini Saini, MD

“Oncology Emergencies” - pediatric intern orientation series (8/21/13)

“Sickle Cell Disease – Acute Complications and Inpatient Management (what every pediatric intern should know)” – pediatric intern orientation series (8/28/12)

“Oncology Emergencies” - pediatric intern orientation series (8/22/12)

Panel Discussion “Dying Children and Their Families” – SLU medical student Death and Dying course (10/15/13)

Small group role play “Talking with patients and their families about death - breaking bad news” - 2014 SLU med student Death and Dying course (10/17/13)

Panel Discussion “Caring for the Dying Child” – SLU pediatric intern retreat (11/8/13)

Donna Regan, MT(ASCP)SBB

“Power and Potential of Cord Blood.”

Heart of America Association of Blood Banks, 2013 Fall Meeting, St. Louis Missouri, September 18, 2013.


Registry of Approved Continuing Education (RACE) Meeting, St. Luke’s Hospital of Kansas City, April 16 2014.

**GRANTS**

NIH 5U10 CA098543, Subcontract #19527 7/7/03-2/28/14 $123,000
W Ferguson, Institutional PI
Children’s Oncology Group Chair’s Grant

NIH U10 CA098543, Subcontract #19527 7/1/12-6/30/14
W Ferguson, Institutional PI
Children’s Oncology Group Per-Case Reimbursement

St. Baldrick’s Foundation
--Supplemental COG Reimbursement 7/1/12-6/30/14
--Infrastructure grant 2012-2014

Sickle Cell and Hemoglobinopathy of Illinois State 7/1/13-6/30/14 $13,200
W Ferguson, Principal Investigator

Health Resources and Services Administration, Maternal and Child Health Bureau, Hemophilia Regional Grant 6/1/14-5/31/14 $24,379
C Hugge and J Puetz, Co-Investigators

Center for Disease Control Universal Data Collection Grant 9/30/13-9/29/14 $18,370
C Hugge and J Puetz, Co-Investigators

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

US Department of Health and Human Services, National Cord Blood Inventory, C.W. Bill Young Cell Transplantation Program

HHSH250201000015C 2010-2014 $1,411,050

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

American Thrombosis and Haemostasis Network, ATHN Data Quality Counts Grant
4/30/14-4/29/15 $1100
J Puetz, Principal Investigator

Eli Lilly: A Phase 3, Double-Blind, Randomized, Efficacy and Safety Comparison of Prasugrel and Placebo in Pediatric Patients With Sickle Cell Disease.
W Ferguson, Principal Investigator

(Hematology/Oncology continued...)
Fletcher Allen Medical Center: Subcontract for “A Phase 2 Study of Nifurtimox in Children with Relapsed or Refractory Neuroblastoma”
   W Ferguson, Principal Investigator $5500

Van Andel Research Institute: Subcontracts for “A Trial Using Molecular-Guided Therapy in Patients With Refractory or Recurrent Neuroblastoma” and “Molecular-Guided Therapy for Relapsed and Refractory Childhood Cancer” (supported by a designated grant from Dell Corporation), “Preventative Trial of DFMO in Patients With High Risk Neuroblastoma in Remission”, and “Safety and Efficacy Study of TPI-287 in Neuroblastoma and Medulloblastoma.”
   W Ferguson, Principal Investigator $48,000

Janssen Services, LLC: Abciximab (ReoPro) as a Therapeutic Intervention for Sickle Cell Vaso-Occlusive Pain Crisis
   W Ferguson, Principal Investigator $105,995
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.
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 Annual Meeting of the Pediatric Academic Societies, Vancouver, CA, May 2014.

Winter LE, Barenkamp SJ. The HMW1/HMW2 adhesins of nontypeable Haemophilus influenzae (NTHi) are highly immunogenic during NTHi acute otitis media and anti-HMW1/HMW2 antibodies are major mediators of opsonophagocytic killing in convalescent sera.

PUBLICATIONS

Stephen J. Barenkamp, M.D.


Winter LE, Barenkamp SJ. Antibodies to the HMW1/HMW2 and Hia adhesins of nontypeable Haemophilus influenzae mediate broad-based opsonophagocytic killing of homologous and heterologous strains. Clin Vaccine


HONORS

Stephen J. Barenkamp, M.D.

Editorial Advisory Board

The Journal of Infectious Diseases

Clinical and Vaccine Immunology

Ad Hoc Manuscript Reviewer [Reviews completed during the 2013-2014 academic year]


National Institutes of Health Activities

Permanent Study Section Member, Vaccines against Microbial Diseases Study Section, NIH, June and October, 2013, and February, 2014.

Clinical Awards

Best Doctors in America

PRESENTATIONS AT NATIONAL MEETINGS

Stephen J. Barenkamp, M.D.

The following abstract was presented at the Annual Meeting of the Pediatric Academic Societies, Vancouver, CA, May 2014.

Winter LE, Barenkamp SJ. The HMW1/HMW2 adhesins of nontypeable Haemophilus influenzae (NTHi) are highly immunogenic during NTHi acute otitis media and anti-HMW1/HMW2 antibodies are major mediators of opsonophagocytic killing in convalescent sera.
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

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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, 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 Cancer Care at DePaul Health Center, St. Mary’s Breast Center (SMBC) St. Joseph’s Medical Park Mammography Center (SJMP), and St. Clare Health Center.

Primary reasons for referral to Medical Genetics 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. The Division coordinates enzyme replacement therapy for patients with lysosomal storage disorders and treatment for osteogenesis imperfecta.

The COG and SWOG approved 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 Division of Medical Genetics is involved in education at many levels. Division members teach the first year medical students Molecular Biology and Genetics and offer interview skills feedback for first and second year medical students in the Physician, Patient and Society course. 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. 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 Genetics division also provides supervision for visiting genetic counseling graduate students who complete 5-6 week summer rotations, and sometimes provides rotations for undergraduate students 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 cyto-genetic 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-Suérez, PhD**  
Associate Professor, Departments of Pediatrics & Biochemistry and Molecular Biology  
**Interests:** Basic and Translational Research of Mucopolysaccharidoses, in particular Morquio A syndrome, glycosaminoglycans - keratan sulfate, Newborn Screening.
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<tr>
<th>Name</th>
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<th>Education</th>
<th>Interests</th>
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<tr>
<td>PhD:</td>
<td>Gifu University, Gifu, Japan</td>
<td>Post-Doctoral Fellow: Kobe Pharmaceutical University, Kobe, Japan</td>
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<td>Post-Doctoral Fellow:</td>
<td>Graduate University for Advanced Studies, Hayama, Japan</td>
<td>Foreign Research Assoc: Saint Louis University, St. Louis, MO</td>
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<tr>
<td>Rachael Bradshaw, MS, CGC</td>
<td>Assistant Professor</td>
<td>University of Cincinnati, Medical Genetics</td>
<td>Prenatal Counseling, Fetal Anomalies</td>
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<tr>
<td>Katherine Christensen, MS, CGC</td>
<td>Assistant Professor</td>
<td>Sarah Lawrence College, Human Genetics</td>
<td>Clinical dysmorphology, neurogenetic disorders, lysosomal storage disorders, cardiac channelopathies</td>
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<tr>
<td>Margaret Hefner, MS, CGC</td>
<td>Associate Clinical Professor</td>
<td>University of Michigan, Human Genetics</td>
<td>CHARGE syndrome, prenatal genetics</td>
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<td>Darbey Raible, MS, CGC</td>
<td>Assistant Professor</td>
<td>University of Cincinnati, Medical Genetics</td>
<td>Prenatal Genetics</td>
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<td>Erin Torti, MS, CGC</td>
<td>Assistant Professor</td>
<td>University of Cincinnati, Medical Genetics</td>
<td>Pediatric Genetics, Outreach Services</td>
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<td>University of Cincinnati, Medical Genetics</td>
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<tr>
<td>Laura Waldman, MS, CGC</td>
<td>Assistant Professor</td>
<td>Sarah Lawrence College, Human Genetics</td>
<td>Cancer genetics, neurofibromatosis</td>
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<td>Joel C. Eissenberg, PhD</td>
<td>Professor in Biochemistry, Secondary Professor in Pediatrics</td>
<td>PhD, University of North Carolina-Chapel Hill</td>
<td>NIH Postdoctoral Fellow, Washington University, St. Louis, MO</td>
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<td>Medical College:</td>
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**PUBLICATIONS**


Tomatsu S, Shimada T, Mason RW, Kelly J, LaMarr WA, Yasuda E, Shibata Y,


**BOOKS**


**GRANT REVIEWING**

Montañño AM. NIH, Therapeutic Approaches to Genetic Diseases Study Section (TAG), 2014.

**PRESENTATIONS**

Hefner MA, Fassi ER, Ballard KS: CHARGE Syndrome Clinical Database


Braddock SR, Christensen KM, Torti EE, Elbabaa SK. Encephalocrianiocutaneous lipomatosis: Evidence for mosaicism and early brain tumors. Presented at the 34th David W. Smith Workshop on Malformations and Morphogenesis, Mont Tremblant, Quebec, August 9-14, 2013.


PATENT APPLICATIONS

PRENATAL ENZYME REPLACEMENT THERAPY FOR HYPOPHOSPHATASIA. Serial Number: US 8,874,833 B2. Application number: 13/007,772. Filed: January 17, 2011. Inventors: Sly; William S; (St. Louis, MO); Grubb; Jeffrey H; (Arnold, MO); Tomatsu; Shunji; (Clayton, MO); Montaño; Adriana; (St. Louis, MO); Oikawa Hirotaka (Singapore).

GRANTS

Stephen R. Braddock, MD - Principal Investigator: Missouri Department of Health Tertiary Genetic Center; Illinois Department of Public Health Genetic Counseling Clinical Services Program; John Thomas NKH Foundation

Adriana Maria Montaño Suárez, PhD – Principal Investigator: Actelion Pharmaceuticals Research; National Institutes of Health; National MPS Society; Ultragenyx

Katherine Christensen, MS, CGC – Key Personnel: The MOPPet Study; TTR Mutations & Cardiac Amyloidosis; Missouri Department of Health – Cystic Fibrosis
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 build outstanding programs of professional and public education, collaborate in national quality improvement initiatives, and to contribute a wide variety of productive research.

Clinical Care:

Venues of neonatal care include the Neonatal Intensive Care Units at Cardinal Glennon Children’s Medical Center and St. Mary’s Health 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 lead 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 and neonatal services in educational and quality improvement programs.

The residency program in Neonatal Perinatal Medicine deserves special attention. Currently there are six GME funded positions. 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.

Quality Improvement:

The division is participating in two protocols to reduce central line infections, the CLABSI initiative (Dr. Noguchi) and the Ohio collaborative. Both are multicenter trials. The division also participates in QI projects through the Vermont Oxford Network. Current projects through this network include oxygen saturation goals and Neonatal Abstinence.
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 (Dr. Al-Hosni), intestinal blood flow (Dr. Havranek) and resuscitation/airway management (Dr. Ali). Two new research projects that are being initiated include the use of puromycin in Staphylococcal prophylaxis (Dr. Al-Hosni) and Melatonin treatment of infants with Hypoxic-Ischemic Encephalopathy (Dr. Sadiq). Bench research in the division has focused on the developing immune system (Dr. Koenig), iron homeostasis/metabolism (Dr. Fleming) during infancy and fetal/neonatal lung injury (Dr. Hillman).

FACULTY PROFILES

Mohamad Al-Hosni, MD  
Associate Professor  
Interests: Infant nutrition, Delivery room management for ELBW infants, probiotic supplement to enteral feeds to prevent NEC, milking the umbilical cord in extreme premature infants, QI process for improved morbidity outcomes in premature infants, and puromycin prophylaxis for Staphylococcal colonization.

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, Health Informatics, Mobile Health, Telemedicine  
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: Long term follow up of premature infant, long term neurodevelopmental disabilities  
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, MD  
Assistant Professor  
Interests: Medical ethics  
Board Certification: Neonatal-Perinatal Medicine  
Medical College: University Pittsburgh School of Medicine  
Residency: Ohio State University College 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

Robert W. Brooker, MD  
Associate 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

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, CA/Orange, CA

Catherine Cibulskis, MD  
Assistant Professor  
Interests: Improving Neonatal Nutrition and Growth, Impact of antenatal diagnosis of congenital anomalies on care and neonatal outcomes  
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

Colleen C. Claassen, MD  
Assistant Professor  
Interests: Neonatal Resuscitation, Neonatal global health and neonatal resuscitation in resource limited settings through Helping Babies Breathe, Simulation-based education, Non-invasive ventilation with bubble CPAP  
Board Certification: Pediatrics
Meghan Coghlan, MD

Assistant Professor

Interests: Hypoxic-ischemic brain injury

Medical College: University of Kansas School of Medicine, Kansas City, MO
Residency: Children’s Hospital Boston & Boston Medical Center, Boston, MA
Fellowship: Morgan Stanley Children’s Hospital-Columbia University, New York, NY

Robert E. Fleming, MD

Professor

Interests: Iron homeostasis, International medical care

Medical College: Loyola University-Stritch School of Medicine, Chicago, IL
Residency: Washington University School of Medicine, St. Louis, MO
Fellowship: Washington University School of Medicine, St. Louis, MO

Thomas Havranek, MD, Associate Professor

Interests: Intestinal blood flow and perfusion – NEC, cholestasis

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

Noah Hillman, MD

Associate Professor

Interests: Lung and systemic injury form mechanical ventilation at birth and the molecular pathways activated by mechanical ventilation

Medical College: University of Missouri, Columbia, MO
Residency: University of Cincinnati, Cincinnati, OH
Fellowship: University of Cincinnati, Cincinnati, OH

William J. Keenan, MD

Professor

Interests: An outstanding program of perinatal education to support the best possible health for mothers and babies in communities around the world. Advocacy to action and policy change to promote improved health outcomes for the world’s children through work with the American Academy of Pediatrics and the International Pediatric Association.

Cumulative curricula so far: Neonatal resuscitation (HBB), essential care for every baby (ECEB), essential care for the small baby (ECSB), prevention and treatment of material hemorrhage [small role] and use of antenatal corticosteroids to ameliorate the effects of preterm birth [small role].
Joyce Koenig, MD

Professor

Interests: Neonatal inflammatory mechanisms and immune function

Board Certification: 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

Shakir Mohamed, MD

Assistant Professor

Interests: Respiratory outcomes in preterm infants, Retinopathy of prematurity

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, Hypoxic Ischemic encephalopathy

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, Caring for the caregiver and palliative care and ethical issues related to end of life care, Neonatal abstinence syndrome

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

Marya Strand, MD

Interests: Simulation, education, neonatal resuscitation

Board Certification: Pediatrics, Neonatal-Perinatal Medicine
Medical College: Vanderbilt University, Nashville, TN
Residency: Vanderbilt University, Nashville, TN
Fellowship: University of Cincinnati, Cincinnati, OH

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.

Jeffrey Cooper, MD
2nd year in program
Research Mentor – Rob Fleming
Clinical Mentor – Greg Booth
Lactoferrin and Hepcidin Response

Nicole Deptula, MD
1st year in program
Research Mentor – Noah Hillman
Clinical Mentor – Kim Spence
Basel Cell Response to Lung Injury

Justin Josephsen, MD
3rd year in program
Research Mentor – Mohamad Al-Hosni
Clinical Mentor – Laura Cerny
Cord Milking and ELBW

Aaron Pitzele, MD
3rd year in program
Research Mentor – Thomas Havranek
Clinical Mentor – Robert Fleming
Intestinal Blood Flow and Blood Transfusion
Daniel Rito, DO  
2nd year in program  
Research Mentor – Joyce Koenig  
Clinical Mentor – Marya Strand  
Chorioamnionitis & Prematurity – Treg/Th17 Number and Function

Joy Wen, MD  
1st year in program  
Research Mentor – Ajay Jain  
Clinical Mentor – Laura Cerny  
Liver and Gut Injury Due to TPN Infusion

RESEARCH HIGHLIGHTS

F. Sadiq, MD  
Facilitating research protocols by fellows. IRB approved protocol for Melatonin use in moderate to severe Hypoxic-Ischemic Encephalopathy in Newborns.

M. Al-Hosni, MD  
PI for clinical trial to evaluate the effect of milking the umbilical cord in ELBW infants. Co-PI for a NIH/DMID sponsored Protocol 09-0065 titled “Safety and Efficacy of Intranasal and Topical Mupirocin in Eradicating Colonization with Staphylococcus aureus (SA) in Critically Ill Infants” – a phase 2, Multi-Center, Open Label, Randomized Trial. Planning phase for an industry-sponsored clinical trial (protocol STP206-002) titled “A Phase Ib/Ila Randomized, placebo controlled study of the safety and efficacy of once daily dosing of STP206 in premature, very low birth weight and extremely low birth weight neonates”. Retrospective data analyses to evaluate different morbidity outcomes in premature infants.

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 laboratory has generated a mouse knockout of the Tfr2 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 Tfr2 and the iron regulatory hormone hepcidin in the altered iron metabolism observed during inflammation are also being investigated. The potential therapeutic use of exogenous transferrin is also being investigated in collaboration with Weill-Cornell University in mouse models of thalassemia. These studies will allow for a better understanding of the means by which the body regulated the uptake and cellular distribution of iron in normal and pathologic states. Dr. Fleming’s laboratory is in the Doisy Research Building.

N. Hillman, MD  
conducts translational research to study ventilator-induced lung injury and the progression of inflammation and injury toward bronchopulmonary dysplasia (BPD) in preterm infants. His current focus is evaluation of the biochemical processes and signaling pathway activated by the initiation of ventilation at birth and developing ways to decrease this injury. He has helped develop a fetal sheep model for isolating responses to the initial resuscitation at birth by maintaining placental circulation and avoiding additional ventilation. Dr. Hillman, along with Dr. Alan Jobe, has recently been focusing on lung recruitment maneuvers, such as sustained inflation, to decrease injury during the formation of functional reserve capacity. The Hillman lab has begun to
study the repair mechanisms in the airways after this injury. Using molecular and mRNA sequencing techniques, we have started to evaluate different molecular pathways, which might contribute to the formation of BPD. The preterm lamb models are performed at the University of Western Australia and the molecular analysis is performed in Dr. Hillman’s laboratory in the Doisy Research building.

**T. Havranek, MD**  

**W. Keenan, MD**  

**Study:** Can a simplified approach to training in essential newborn care through innovative curricula impact community wide perinatal mortality – Ethiopia (in process).

Establishment of a child health advocacy group (10 Foci) across 144 national professional societies of pediatrics. Five related position statements submitted to the 67th World Health Assembly. Geneva, May 19-20, 2014.


**J. Koenig, MD**  
Dr. Koenig directs an NIH-funded program (Developmental Leukocyte Biology Laboratory) to study basic science and translational 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, Neonatal Perinatal Medicine and Maternal Fetal Medicine clinical Fellows, pediatric residents, as well as 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 Pediatric Academic Societies (PAS) and several national meetings of the American Academy of Pediatrics (AAP).

Ongoing projects in Dr. Koenig’s laboratory include: 1) Neonatal immune regulatory mechanisms in chorioamnionitis; 2) Innate-adaptive immune mechanisms involved in neonatal inflammation; and 3) Neutrophil mechanisms of survival and apoptosis. She has formed collaborations with other clinical (Internal Medicine, Pathology, OB-GYN) and basic science (Molecular Microbiology & Immunology; Biochemistry; Biology) departments and the Center for Vaccine Development at Saint Louis University as well as with investigators at 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 instituted 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. M. Michelle Mariscalco, Regional Dean at University of Illinois – Urbana, as the Visiting Professor for Pediatric Science Days 2014. The Introduction to Academics course that she designed and instituted in 2009 is 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 2012 PAS annual meeting and 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 a recent Past President (2012) of the MWSPR.

PUBLICATIONS


HONORS

Keenan WJ: Standing Up for Mothers and Babies Award – Maternal Child and Family Health Coalition, St. Louis, MO.

PRESENTATIONS


Strand ML and Rudisile E. Music and multimodal stimulation decreases length of stay in the neonatal ICU.
<table>
<thead>
<tr>
<th>GRANTS</th>
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<tbody>
<tr>
<td><strong>Saint Louis University Liver Center</strong></td>
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<tr>
<td>2/2011 – 8/2012</td>
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<tr>
<td>$25,000</td>
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<tr>
<td>Robert Fleming – Principal Investigator</td>
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<td>Role of HFE in Modulating the Effect on NTBI on Hepcidin Expression</td>
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<tr>
<td><strong>Saint Louis University Bridge Funding</strong></td>
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<td>$88,913</td>
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<td>Robert Fleming – Principal Investigator</td>
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<tr>
<td>Regulation of Hepcidin Expression by Iron</td>
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<tr>
<td><strong>National Institutes of Health – R01DK095112</strong></td>
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<tr>
<td>9/1/12-8/31/16</td>
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<tr>
<td>$1,851,308 (total)</td>
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<td>Robert Fleming – Co-Principal Investigator</td>
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<td>Regulatory Role of Transferrin in Erythropoiesis and Iron Metabolism</td>
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<td><strong>NIH-NHLBI</strong></td>
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<td>K08-HL097085 (Hillman-PI)</td>
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<td>08/01/09 - 7/30/2014</td>
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<tr>
<td>Lung Injury with Resuscitation of the Preterm</td>
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<td><strong>NIH-NICHD</strong></td>
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<td>R01-HD072842 (PI-Jobe) (Hillman)</td>
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<td>07/1/12 – 6/30/2017</td>
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<td>Initiation and progression of Preterm Lung injury with Ventilation</td>
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<td>Role: Co-investigator</td>
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<tr>
<td><strong>National Institutes of Health (NICH) RO1 HD 47401</strong></td>
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<tr>
<td>02/2012-01/14</td>
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<tr>
<td>$412,000 (total)</td>
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<td>Joyce Koenig—Principal Investigator</td>
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<td>NIAID</td>
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<tr>
<td><strong>NICHD, National Institute of Health</strong></td>
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<td>2007-present</td>
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<td>$52 million (approx)</td>
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<tr>
<td>National Children’s Study</td>
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<tr>
<td>Akihiko Noguchi – Co-investigator (3% of salary)</td>
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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, renal transplant coordinators, 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 percutaneous renal biopsy, acute and chronic hemodialysis, acute and chronic peritoneal dialysis, including a peritoneal dialysis training program, acute hemodiafiltration, 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 150 transplants have been performed. The division currently follows approximately 45 renal transplant recipients. Deceased Donor, Living Related, and Living Unrelated Transplants are 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.

The division has a formal transition program for Dialysis patients to aide in successful transition to adult care; a formal Transition Program has been developed for Renal Transplant recipients as well. The Division is participating in several Multi-Center Studies.
### FACULTY PROFILES

#### Craig W. Belsha, MD
- **Professor**
- **Interest:** Hypertension, ambulatory blood pressure monitoring, renal transplantation and dialysis, atypical HUS
- **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, MS in Clinical Research
- **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 renal transplantation
- **Board Certification:** Pediatrics; 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 has completed a Master’s Program in Health Outcomes Research. Dr. Belsha continues to serve on the Atypical HUS Foundation, which has been active in funding research studies related to this devastating disease. He also serves on the Atypical HUS Advisory Board of Alexion Pharmaceuticals related to his expertise in treatment of Atypical HUS. The Division also participates in the International Pediatric Hypertension Association Study Group. Dr. Wood is serving as Co-Chair of the Medical Advisory Board for Mid-America Transplant Services.

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. Sponsored by Amgen.

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. *(Abraham E: Center PI).*
3. Outcomes of Permanent Vascular Access in Pediatric Hemodialysis Patients. *(Wood EG: center PI, Co-PI for study)*
4. A Multicenter, open label, uncontrolled study to evaluate the efficacy, acceptance and tolerance of RenaStart (Vitafluo International Ltd.), a high energy powdered formula (medical food) with low levels of potassium, protein, calcium, chloride, phosphorous and Vitamin A for children aged 1-10 years with chronic kidney disease (CKD). *(Belsha CW: center PI).*

**PUBLICATIONS**


HONORS AND OTHER ACADEMIC ACTIVITIES

Belsha CW:

Feldenberg LR:
“Top Teacher Award for Outstanding Teaching in Pediatric Subspecialty”, from SLU Department of Pediatrics, 2014; 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.

Abraham E: 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.

Wood EG:
Best Doctors, 2012, 2013, 2014; 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- Co-chair; Planning Committee/Counselor for Camp Okawehna, 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

Belsha CW:
“Office Management of Pediatric Hypertension” at Pediatric Cardiology for the Primary Care Physician, Saint Louis University, April 30, 2014.

“Hypertensive Crises in Children” at American Heart Association Meeting Scientific Meeting, November 17, 2013.

Feldenberg LR:
“Pediatric Kidney Transplantation” at Adventures in Medicine (AlMs) summer SLU program, June, 2014.
GRANTS

NIH

E Wood, MD – PI at St. Louis University

CKID Study - Multi-Center Study

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.
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. 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, and the American Academy of Sleep Medicine. 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). With Dr. Kurt Sobush’s leadership, the division established a collaborative arrangement to conduct monthly walk rounds to see ventilator dependent patients at The Ranken-Jordan Home for Convalescent Crippled Children in Maryland Heights, MO.

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: 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

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 of Pediatrics
Interests: Ventilator dependent children, airway microbiome in 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: Duke University Medical Center

Robert W. Wilmott, MD
IMMUNO Professor and Chair, 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 and quality improvement efforts 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 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, MSN, CPNP, Nurse Practitioner, Sleep Disorders
Bonnie Kallaos, 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 novel mechanism of treating the virulence of *Pseudomonas aeruginosa* and assessing new strategies for inhaled antibiotic therapy in CF patients.

Dr. Blakeslee Noyes has participated in a number of multi-center studies examining new therapeutic agents for asthma and cystic fibrosis. Dr. Noyes remains the local PI for the EPIC study, a long term 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. Shalini Paruthi is on the steering committee and a local site PI for the multicenter NIH sponsored CHAT trial (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 assessed include cognition and behavior. Dr. Paruthi has an ongoing clinical interest in CPAP adherence in children. Dr. Paruthi is also core clinical faculty for the ACGME approved sleep fellowship at Saint Louis University, which has a focus on pediatric sleep medicine.

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 and rhinovirus inhalational airway injury. Additionally, Dr. Sobush has 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*”. New interests include collaboration with the St. Louis Cord Blood Bank to explore new cord blood or conditional media therapeutics in the role of epithelial repair with transgenic mouse models.
Dr. Jamie Wooldridge continues leading the Asthma quality care improvements through data analysis and developing new directions. Within the CF team, Dr. Wooldridge continues to work with the CF care team staff to maintain at least 80% of CF patients attending quarterly visit. She is now leading work to better identify pulmonary exacerbations in CF patients and utilize data on variations in care to improve pulmonary outcomes. 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 including the new drug targeting the basic molecular defect in CF. In addition, Dr. Wooldridge is a member of the Protocol Review Committee for the TDN.

**PUBLICATIONS**


**HONORS**

Albers GM: Best Doctors in St. Louis; Invited Lecturer, International Pediatric Flexible Bronchoscopy Course, Cincinnati, OH and Madrid, Spain.

Noyes BE: Best Doctors in St. Louis; Best Doctors in America; nominee, Glennon Ambassador Award

Paruthi, S: Executive Board for the American Sleep Medicine Foundation; Chair, Education Committee, American Academy of Sleep Medicine; Member, Task Force: Question Writing for In-Service Training Exam for Fellows, AASM.

Sobush KT: Medical Student Summer Research Fellowship Program, SLU School of Medicine, Member, Utilization Review Committee
Wilmott RW: IMMUNO Professor and Chair, Department of Pediatrics, Saint Louis University and Pediatrician in Chief, Cardinal Glennon Children’s Medical Center, Best Doctors of America, Saint Louis Magazine

Wooldridge JL: Glennon Ambassador Award - nominee 2013

PRESENTATIONS

Albers GM:
Series of educational presentations to residents and attending physicians at Hopital Universitat D’Etat and Hopital La Paix (October 2013):
- 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


Albers GM: “Pediatric Bronchoscopy”, Allergy/Immunology Division, March 2014.

Albers GM: “Pulmonary Disorders in Primary Immunodeficiency”, JMF conference: Primary Immunodeficiency Diseases for Allergy and Immunology, Pediatrics and Internal Medicine PCPs, St. Louis MO, May 2014.

Noyes BE: “Cystic Fibrosis: Emerging Treatment Options”, Allergy/Immunology Division, September 2013.

Noyes BE: “2 month old with hypoxia and tachypnea” Mississippi River Valley Pediatric Pulmonary Case Conference, May 2014.


Paruthi S: “Sleep disorders in pediatric patients with genetic and craniofacial syndromes,” in the Managing Sleep Disorders in Patients with Co-morbid Conditions Conference, American Academy of Sleep Medicine, Chicago, IL, October 5, 2013
Paruthi S: “Sleep Disorders in Pediatric Patients with Mood Disorders in the Managing Sleep Disorders in Patients with Co-morbid Conditions Conference, American Academy of Sleep Medicine, Chicago, IL, October 5, 2013

Paruthi S: “Sleep Disorders in Pediatric Patients with Genetic Syndromes”, Saint Louis University Department of Pediatrics Grand Rounds, January 22, 2014

Paruthi S: “Pediatric Sleep Disordered Breathing: Diagnostic Dilemmas and Risk Factors,” American Academy of Dental Sleep Medicine, 23rd Annual Meeting, Minneapolis, MN, May 29, 2014

Paruthi S: “State of the Art for Clinical Practitioners: Best Practice Pediatrics Sleep Review” SLEEP 2014, Associated Professionals Sleep Societies, Minneapolis, MN, June 1, 2014


Wilmott RW: “How useful was the information we learned in medical school? Perspective: 40 years later”, SMURRF (Summer Medical Student Respiratory Research Fellowship) Program Guest Speaker, Cincinnati Children’s Hospital Medical Center, Cincinnati, OH, August 2013.


Wooldridge JL:

“Oh the Wonderful Things a Pathway Can Do! Improvements in Asthma Care”. Grand Rounds, Department of Pediatrics, St. Louis University, June 2014

“Infant hypoxia”, Mississippi River Valley Pediatric Pulmonary Case Conference, May 2014.

GRANTS

G. Albers, MD

Therapeutics Development Center, Cystic Fibrosis Foundation

Kalobios KB001A-05 Ph 2, Randomized, Double-blind, Placebo-controlled Anti Pa Infusion in Cystic Fibrosis

Optimize-IP-12 Optimizing Treatment for Early Pseudomonas aeruginosa Infection in Cystic Fibrosis. NIH/CFF TDN
A 24-week, open-label, parallel-group, interventional Phase IV study comparing Tobramycin Inhalation Powder (TIP) administered once daily continuously versus TIP administered BID in 28 day on / 28 day off cycles for the treatment of pulmonary Pseudomonas aeruginosa in patients with cystic fibrosis. Protocol CTBM100CUS03 NOVARTIS

B. Noyes, MD

“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”, Cystic Fibrosis Foundation

“Newborn Genetics Program in Cystic Fibrosis”, State of Missouri

“Cystic Fibrosis Center Grant”, Cystic Fibrosis Foundation.

K. Sobush, MD

Bronchoalveolar Lavage Fluid (BALF) Specimen Bank and Lower Airway Microbiome in Children and Adults With and Without Cystic Fibrosis; Cystic Fibrosis Foundation Therapeutics, Inc

J. Wooldridge, MD

Accelerating the Rate of Improvement in Cystic Fibrosis: Consistent Application of Care Guidelines to Improve Lung Function in CF, Cystic Fibrosis Foundation

A Phase 3, Randomized, Double-blind, Placebo-controlled, Parallel-Group Study to Evaluate the Efficacy and Safety of Lumacaftor in Combination with Ivacaftor in Subjects Aged 12 years and Older with Cystic Fibrosis, Homozygous for the F508del-CFTR mutation. (TRANSPORT study). #VX12-809-104, Vertex Pharmaceuticals, Inc.

Cystic Fibrosis Foundation Therapeutics, Inc.- A Long-Term Prospective Observational Safety Study of the Incidence of and Risk Factors for Fibrosing Colonopathy in US Patients with Cystic Fibrosis Treated with Pancreatic Enzyme Replacement Therapy: A Harmonized Protocol Across Sponsors (CF-FC Study)- Active

Baby Observational Study – BONUS, Cystic Fibrosis Foundation
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. It is also affiliated with the Missouri Poison Center (MPC). The Division also serves Saint Louis University Hospital for bedside toxicology consultation by the Division Director, Dr. Anthony J. Scalzo, MD.

**INTRODUCTION AND DESCRIPTION**

The Division of Toxicology is composed of two physician medical toxicologists: Anthony J. Scalzo, MD, Division Director and Medical Director of the MPC, and Rebecca Tominack, MD, Assistant Medical Director for the MPC. 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. 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 at the bedside is provided by Dr. Scalzo and as of January 1, 2014 he can be reached for Toxicology Consults via the Access Center at 314-268-4002. Consultation ranges from simple triage advice to complex toxicology information and medical management only able to be provided at the bedside.

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 to Senator Chuck Grassley, Iowa, and Senator Dianne Feinstein, California. Dr. Scalzo’s testimony aided the drafting of the Synthetic Drug Abuse Prevention Act of 2012 and subsequent legislation in 2013 and 2014. On June 18, 2014 Dr. Scalzo was asked by Eastern District US Attorney Richard Callaham to be present at a major press conference to announce the indictment of 28 individuals on synthetic drug charges and the confiscation of hundreds of pounds of drugs and $12 million in cash related to those drugs. Dr. Scalzo was asked to discuss the medical aspects of synthetic drug abuse and spoke to 3 television stations as well as the printed media. Dr. Scalzo was an invited lecturer on updates in synthetic drugs at Washington University/Saint Louis Children’s Hospital in April 2013. In 2012 through 2014 Dr. Scalzo served as an uncompensated advisor for toxicology issues to Senator Dick Durbin’s office in Illinois on the subject of caffeine and energy drinks and their danger to children and adolescents.

The Division of Toxicology maintains a strong commitment to education. For Saint Louis University School of Medicine, Dr. Scalzo provided 9 hours of toxicology lecture and case discussions in the first year curriculum and teaches toxicology in a 4 lecture cycle throughout the year for housestaff. Dr. Scalzo provided Advanced Hazmat Life Support (AHLS) training for physicians, nurses and paramedics in the Kansas City area with a 16 hour outreach education course held in July 2012. He has worked with Dr. Kathy Lehman-Huskamp, MD, former PEM Fellow, on
recertifying in AHLS so that future courses can be provided in 2014 to 2016 in Missouri.

Dr. Scalzo hosted a full month toxicology elective for pediatric emergency medicine fellows from Saint Louis Children’s Hospital/Washington University and SSM Cardinal Glennon Children’s Medical Center/Saint Louis University in April 2013. Seven didactic lectures were presented to the Fellows by Dr. Scalzo including daily case rounds discussion on poisoning exposure patients.

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. Dr. Scalzo continued his smoking prevention education for children by visiting schools and presenting his “Beat the Smoking Rap” program. This is in its 18th year of community service.

**Faculty Profiles**

**Anthony J. Scalzo, MD, FACMT, FAAP, 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 Co-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 2012) including a major 2 hour symposium on October, 6, 2012 in Las Vegas, NV. Attended as mentor, September 27-October 2, 2013 in Atlanta, GA.

**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

**Reviewer:** Journal of Toxicology Clinical Toxicology, 1999 to present.

Journal of Pediatrics, 2002 to present.

Journal of Medical Toxicology, 2000 to present

Annals of Emergency Medicine, 1999 to present
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); Credentialled 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: Increase awareness of the Poison Center and prevention to the communities and hospitals in rural Missouri, targeted focus on the medically underserved populations and areas  
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  
LaJohnna 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 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 October 3, 4, and 5, 2012 in Las Vegas, Nevada and helped to coordinate simulation in 2013 and 2014 at NACCT in New Orleans by communicating with Richard Low, Education Specialist with CAE (formerly METI). Dr. Scalzo and colleagues from 5 other universities offered this 3 day course which received CME credits and was the fifth annual course held at NACCT. 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, Yale University and Johns Hopkins School of Medicine.  

Dr. Scalzo and trainees or colleagues presented several research platforms and posters in 2013 and 2014 including:  


**Publications**


**Honors**

Anthony J. Scalzo, MD

Best Doctors in St. Louis, 2013 and 2014

**Presentations**


Scalzo AJ: Toxicology Course (9 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 2013.


Scalzo AJ: “Toxicologic Emergencies”, PACTS for Life/PALS course, SSM Cardinal Glennon Children’s Medical Center/Saint Louis University School of Medicine, 2013 to 2014 all 3 day courses.

Scalzo AJ: “Stabilizing the Acutely Ill Child including poisoning cases”. SSM Cardinal Glennon Children’s Medical Center/Saint Louis University School of Medicine, 6 lectures in 2013-2014.


Tominack RL: EOH 511 Environmental Toxicology; Masters Level, 3 credit, 37 lecture hours, 2013-2014.


Long C: “Forensic Toxicology” at Medicolegal Death Investigators Training Course, Saint Louis University, Learning Resources Center, St. Louis, MO, August, 2013; March 2014.


Long C: Clinical Laboratory Specialists Rotation for SLU Hospital, St. Louis, MO, 2013-2014.

Long C: Introduction to Forensic Toxicology for Pathology Residents, St. Louis, MO, 2013-2014.

Long C: Introduction to Toxicology: Forensic Pathology Elective, St. Louis, MO, 2013-2014.

GRANTS

Health Resources and Services Administration (HRSA)

Poison Control Centers Stabilization and Enhancement Grant

Grant year 5 (9/1/12 to 8/31/13) $323,619
Office of Naval Research (ONR): US Navy Defense Health Program

Grant years 8/13 to 8/15 $541,807

Virtual Pediatric Simulator for Emergency Scenario

Training of Military Medical Personnel

Eventual goal to translate this training to medical students and residents in GME

James M. Gerard, MD & Anthony J. Scalzo, MD, Co-PIs
WE HAVE THE BEST DOCTORS IN ST. LOUIS!

Congratulations to the following members of the Department of Pediatrics 2014 Best Doctors list as compiled by St. Louis Magazine

Allergy / Immunology
Alan Knutsen, MD

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

Child Protection
Linda Shaw, MD

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

Dermatology
Elaine Siegfried, MD

Emergency Medicine
John Peter, MD
Anthony Scalzo, MD

Endocrinology
David Dempsher, MD
Susan Myers, MD
Sherida Tollefsen, MD

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

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

Hematology / Oncology
William Ferguson, MD
Christopher Hugge, MD

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

Medical Genetics
Stephen Braddock, MD

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

Nephrology
Craig Belsha, MD
Ellen Wood, MD

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