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DEPARTMENT OF PEDIATRICS

A Message from our Chair

It is my distinct honor and pleasure to share with you the 2018-2019 Department of Pediatrics Annual Report, highlighting the accomplishments of our Faculty and Residents. I am delighted to offer details of the many contributions made by our departmental Faculty and Residents in teaching, service and scholarly activities over the past year! It is with great pride that we recognize those who have been honored with promotions and awards; update you on our successful Pediatric Residency program; address accomplishments in Research and Scholarly activity; and thank the Faculty, Residents and Staff within the department for their efforts in promoting the mission of the Department and the School of Medicine over the past year.

The past year has been filled with changes (as usual) as we have welcomed new faculty members, bid goodbye to some of our respected colleagues, and celebrated the sixth annual Pediatric Research and Scholarship Day, to name just a few. We bid goodbye to our Department Manager Ms. Deborah Valentine who retired in June, and welcomed her successor Ms. Janet Reider. We take this opportunity to thank our Medical Education Coordinator Ms. Angie Tuffs for her dedicated service. Our Staff are invaluable to the smooth functioning and success of our department. We welcome our new Faculty and Residents and wish our departing Faculty Members the very best in their new endeavors.

Our department continues to support medical education on each of our clinical campuses through our innovative curriculum. I would like to acknowledge the significant contributions our Vice Chair Dr. George Maher, Division Chiefs, Medical Education Director Dr. Fernando Bula Rudas, as well as our Residency Program Director Dr. Joseph Zenel along with our Assistant Residency Program Directors Drs. Jody Huber and Kaye Wagner, have made in working with the Faculty and Residents through the past year to fulfill the mission of the medical school and advance the cause of pediatric education.

I would like to particularly acknowledge some of the promotions and awards that our Faculty Members and residents have received in the past year. Drs. Alaa Al-Nofal, Michelle Schimelpfenig, Jennifer Reed, Mir Ali and Melissa Jensen have been promoted to Associate Professor. Drs. Rochelle Boote, Jennifer Haggar, April Willman, Gregory Anderson, Marty Allison, Rosanne Bosch, Akram Khan, Katie Larson, Martin Spahn, Elizabeth Bauer, Rafael Christian, Kingshuk Dasgupta, Cara Hamilton, Margaret Kuehler, Tracy Pierret, Jennifer Tegethoff, Kate Sigford, Joseph Vogel, Wendy Vetter, Ty Kastl, Nicolas Rivera, Christine Arnold, Ashutosh Gupta, Shannon Hoime, Tracy Jones, Nicole Poppinga, Jorge Sanchez, Matthew Krell, Jose Dosado, Nicolas Rivera and Shannon Ashbaugh have been promoted to Clinical Associate Professor. Drs. Craig Crismon, David Whitney, Dawn Larson, Rita Rabenberg, Sami Awadallah, Barry Bauer, Michelle Van Beek, Julie Johnson, Aaron Zylstra, Michael Elliott, Edward Mailloux, David Mueller and Scott Henry have been promoted...
to Clinical Professor. The following Departmental awards were given this year: Outstanding Mentor (Dr. Julie Mayo), Dedicated Teacher (Dr. Candice Nelson), Distinguished Researcher (Dr. Peter Vitiello), Master Clinician (Dr. Laurie Hogden) and Outstanding Resident (Dr. Whitney Roling). Dr. James Wallace received the Class of 1983 Clinical Faculty Award from USD SSOM. Our heartiest congratulations to these individuals who have inspired us with their endeavors and achievements!

The Faculty and Residents in our department are recognized as excellent teachers as well as for their scholarly and service activities, and these are detailed though the individual Division Reports included in this report. We value diversity and its essential role in achieving the educational, scholarship, and service missions of the school and remain committed to the recruitment and retention of students, residents, faculty, and staff who through their diversity enrich the learning environment and promote inclusive excellence. We recognize diversity as relating to race, ethnicity, creed, rural background, socioeconomic status, gender, sexual orientation, age, and disability. In addition, we value persons with broad life experiences, with records of service to disadvantaged populations, and with other attributes that may enhance the learning community.

The medical students, residents, faculty and staff in the Department continue to support our educational curriculum. I would like to take this opportunity to thank all of them for lending their talents and ideas towards the implementation and improvement of our curriculum and the new initiatives that have been put forward in the past year.

Finally, I would like to express my deepest thanks to Ms. Janet Reider who has dedicated herself to the production of this report.

Sincerely,

Archana Chatterjee, MD, PhD
Professor and Chair, Department of Pediatrics
Senior Associate Dean for Faculty Development
Vision Statement:
The Department of Pediatrics at the Sanford School of Medicine of The University of South Dakota will be acknowledged as a leader in educating students, residents, fellows, physicians and allied health professionals in the discipline of pediatrics, be recognized for providing extraordinary, compassionate care to pediatric patients and their caregivers, be renowned for the creation and dissemination of new knowledge in the field of pediatrics, and be valued as an advocate for children.

Mission Statement:
The Mission of the Department of Pediatrics at the Sanford School of Medicine of The University of South Dakota is to provide all learners with an exceptional educational experience in pediatrics, to deliver the highest quality of care to pediatric patients and their caregivers, to create and disseminate new knowledge to improve the health and wellbeing of all children, and to be an advocate for children.

Values:
The members of the Department of Pediatrics at the Sanford School of Medicine of The University of South Dakota espouse the following values:

1. Educators in pediatrics, as role models, should impart in a culturally appropriate manner, the knowledge and skills related to pediatric medicine, that students and residents require to become good physicians.
2. Members of the department are expected to demonstrate and inculcate the highest levels of professionalism, respect, and integrity in their interactions with students, residents, patients and their caregivers, colleagues and staff.
3. Diversity and inclusiveness are respected and highly valued in our department. Gender, race, color, creed, ethnicity, disability status, religion, sexual orientation, nationality, age, veteran status, and other important social identities are all equally accepted and respected in our department.

Goals:
1. To provide high-quality pediatric education at the undergraduate (medical student), graduate (resident and fellow) and professional (continuing professional development) level.
2. To serve the children of South Dakota and the region by providing compassionate, exemplary health care through medical education and research, by serving as a clinical and technical resource to other care providers and agencies.
3. To advance medical knowledge in the field of pediatrics through basic science, clinical and translational research, as well as other scholarly activities.
4. To expand pediatric services throughout the region.
5. To serve as advocates for children’s health and well-being.
6. To serve as a leadership resource in the realm of pediatrics.
7. To support and encourage Faculty Development.
Archana Chatterjee, MD, PhD
Department Chair
Pediatric Infectious Disease

George Maher, DO
Department Vice Chair
Pediatric Hematology-Oncology

Janet Reider
Department Manager

Angela Tuff
Medical Education Department Assistant
DIVISION CHIEFS

Alaa Al Nofal, MD
Endocrinology

Fernando Bula-Rudas
Infectious Diseases

Bonnie Bunch, MD
Neurology

Laura Davis-Keppen, MD
Genetics

Amy Elliott
Avera Research

Nancy Free, MD
Child’s Voice

Carl Galloway, MD
Hospital Medicine

Carrie Kippes, MD
Developmental and Behavioral

George Maher, DO
Hematology-Oncology
Daniel Mark, MD
Palliative Care

Gary Neidich, MD
Gastroenterology

Suzanne Reuter, MD
Neonatology

Jon Ryckman, MD
Surgical Specialties
Anesthesiology and Radiology

John Sanders, MD
Nephrology

Joseph Segeleon, MD
Critical Care Medicine
Pharmacy

Kate Sigford, MD
Physical Medicine & Rehab

Theresa Stamato, MD
Cardiology

Peter Vitiello, PhD
Sanford Research

James Wallace, MD
Pulmonology and Sleep Disorders
Allergy and Immunology

Aaron Zylstra, MD
General Pediatrics
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PEDIATRIC MENTORING COMMITTEE

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Organizational Trainer and Consultant

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Shannon Carruthers, MD

Indra Chandrasekar, PhD

Kurt Griffin, MD, PhD

George Maher, MD

Suzy Reuter, MD

Bill Waltz, MD

Joseph Zenel, MD
RESIDENCY PROGRAM

Joseph Zenel, MD
Program Director

Jody Huber, MD
Associate Program Director

KayeLyn Wagner, MD
Associate Program Director

Kelley Yseth
Program Coordinator
For the academic year 2019-20 we matched 6 categorical residents. One is from a LCME accredited school and five are from AOA accredited schools, all located in the United States. Of note one resident is African American and another is from a non-traditional background; the resident is a graduate of an osteopathic pediatric residency and an ACGME-accredited pediatric emergency medicine fellowship who must complete two years of an ACGME-accredited pediatrics residency before taking the American Academy of Pediatrics certification examinations in General Pediatrics and Pediatrics Emergency Medicine.

a. This past year we had 448 applicants, of whom 88 interviews were offered.
b. We interviewed 63 applicants: 45 female, 18 male, 30 allopathic, 33 osteopathic, 2 participating in the couples match, 3 USD, 6 UND, 1 Native American, and 2 IMG.

1. The program is now 9-years-old. Over this time, we have recruited 28 allopathic and 28 osteopathic medical students from coast to coast, from 23 states, 11 osteopathic schools, and 15 allopathic schools, from which half now practice in South Dakota and North Dakota after graduating.

Program accomplishments this past year

1. We graduated our sixth residency class this June 30, 2019 (6 residents). Three of the six graduating residents went into a pediatrics fellowship: one entered a nephrology fellowship at Le Bonheur Children’s Hospital, Vanderbilt University, Memphis, Tennessee; one entered developmental and behavioral health fellowship at Children’s Mercy Hospital, Kansas City, Missouri; and one entered a pediatrics sports medicine fellowship at Cincinnati Children’s Hospital in Cincinnati, Ohio. Three residents went into general pediatrics practice both inpatient and outpatient in Orange City, IA (rural scholarship obligation); Gillette WY (part-time); and Minnesota (TBD).

2. All six 2018 resident graduates who took the American Board of Pediatrics Initial Certification Exam passed the exam bringing our program’s success rate of passing the Initial Certification Exam first-time to 93% and our overall resident passing rate to 97%. Of note, the national passing rates for pediatric residency programs are 87% and 96% respectively. Our program median score (196) compared to the nation is shown below, as is our graduates’ examination performance compared to the nation for the past 6 years:

2018 Accredited Categorical Pediatrics and Other Combined Training Program Median Scores  
(Number of programs: 212)

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<tr>
<th>Your program FTT median 198</th>
<th>FTT median for accredited programs 203</th>
<th>Passing score 180</th>
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Number of Programs

120 150 180 210 240 270

Total Scaled Score

120 150 180 210 240 270 300
3. Two of our current third-year residents are applying for fellowships (pediatrics endocrinology, pediatric hospital medicine). Two residents already have commitments to general pediatrics practice, one in Iowa and the other in Fargo, North Dakota. Another resident plans to return to New Mexico to practice general pediatrics. The last resident has a US Air Force commitment.

4. The ACGME gave the residency program continued accreditation in March 2019 as well as a letter of commendation for substantial compliance (only 20% of pediatric residencies receive such a letter). The program has received a letter of commendation for substantial compliance three times in a row now, with 4 such letters over a 9-year span.
   a. There are no citations at present.

5. Our program coordinator, Cathy Roling, retired June 30, 2019. Our new program coordinator is Kelley Yseth, who was hired full-time for this position. Ms. Yseth has a 1-year experience working in Sanford Health Academic Affairs and 8 years experience working at the South Dakota State University Admissions Office.

6. A 2-day Faculty and Resident Advocacy Workshop was held May 2-3, 2019, thanks to the American Academy of Pediatrics Leonard P Rome Community Access to Child Health (CATCH) Visiting Professor Grant. Resident Doctors Richard Vo and Molly Linn and Dr. Michelle Schimelpfenig were responsible for applying for the grant. Dr. Ben Hoffman (Oregon Health Sciences University) and Dr. Kerry Sease (Greenville Health System, NC) conducted a 2-day workshop to help residents and faculty develop community and state wide advocacy projects to promote infant, child, adolescent and young adult health and welfare.

7. The residency program held a Saturday morning Pediatric Emergencies in a Rural Setting workshop for faculty and residents at Cathy Roling’s farm in Salem, SD and was featured on KDLT TV.

8. Yoga classes and cooking classes for residents and faculty were held throughout the year, arranged by the Residency Wellness Committee.

Planned changes for 2019-20

1. We introduced a new PGY3 “Mental Health” rotation into the curriculum to address the nationwide shortage of pediatricians able to handle the increasing mental health needs of children, adolescents, and young adults.

2. Endocrinology was separated from neurology and became a stand-alone, 3-4-week, vacation eligible, rotation. This decision was based on the American Board of Pediatrics In-Training Exam results and faculty and resident discussion at our annual curriculum retreat.
3. Pulmonary (2-weeks) was combined with Neurology (2-weeks) into a 4-week block. (Pulmonary was collapsed into 2 weeks from a 3-4 week, vacation eligible, rotation to replace the removal of Endocrinology into an expanded 3-4 week rotation.) This decision was based on the American Board of Pediatrics In-Training Exam results and faculty and resident discussion at our annual curriculum retreat.

4. Surgery was combined with the Anesthesia/Procedures rotation giving the PGY2 resident the choice of 1-4 weeks surgery or anesthesia/procedures or combination thereof with an option for a vacation week. This combination allowed for the placement of an elective, vacation eligible, rotation into the PGY2 curriculum that was removed from the PGY3 curriculum.

5. An Infectious Disease rotation was reintroduced into the curriculum, this time placed into PGY2. This decision was based on the American Board of Pediatrics In-Training Exam results and faculty and resident discussion at our annual curriculum retreat.

Resident Accomplishments

Peer-reviewed Publications


National/Regional Presentations

Oral Presentations:
Hentges C. Medical Student Leadership. OMED 18, San Diego, Oct 5-9, 2018
Norris V, Be well mother and baby program. Red Lake Women’s Conference, Red Lake Reservation, MN, June 2019

Posters
Vo R, White J, Wang Z, Wang X, Marzano SY. The intestinal microbiome of the late preterm infant is altered by diet and antibiotic use. MWSPR Annual meeting, Royal Oak, MI, Oct 2018
Rolling R, Jones T, Hamilton S, Matzen MJ. MCHAT utilization at 69th & Louise Children’s Clinic. Fargo, ND, April 2019
Schneider K, Olgun g, Huber J. Epidemiology and characteristics of adolescent deliberate poisoning in South Dakota, Pediatric Academic Societies, Baltimore, May 2019
Jackson S, Rubin-Peck E, Al Nofal A. Bilateral femoral fracture in adolescent male due to severe vitamin D deficiency. Pediatrics Scholar Day, University of South Dakota Sanford School of Medicine, Sioux Fall SD, May 2019

**Awards**

**Richard Vo MD, Molly Linn DO** (Faculty: Michelle Schimelpfenig DO). American Academy of Pediatrics Leonard P Rome CATCH Visiting Professorship ($4500)

**Kristin Stuive DO**: Resident delegate to the American Academy of Pediatrics National Conference and Exhibition (NCE), Orlando, November 2018

**Rebecca Gehrmann, MD**: Resident delegate to the American Academy of Pediatrics Legislative Conference, Washington, DC, April 2019

**Bryan Blacker, MD**: Spanish Interpreter Certificate, Sanford Health Sept 2018

**Committees**

**Bryan Blacker MD**, Sanford Children’s Hospital Pediatric Care Monitoring Committee

**Sarah Jackson, DO**, Graduate Medical Education Committee

**Joe Zenel, MD; Residency Program Director Accomplishments:**


**Peer-reviewed Publications**


**National/Regional Presentations**

**Oral Presentations:**


Zenel JA, Rooney K. Youth B, Mather K, McConkey S (Facilitators). Ranking a “Best Fit” resident and How to maintain confidentiality and manage gossip among faculty and residents at your program. Forum for Directors of Small Programs and Affiliate Chairs. Association of Pediatric Program Directors Annual Meeting. New Orleans, Louisiana. March 27, 2019

**Committees**

**National:**

Member, American Board of Pediatrics Educational and Training Committee, January 2019 – present

Member, USMLE Abstracts TMDC, Step 2 National Board of Medical Examiners, February 2015 – present; Chair June 2019

Member, USMLE Evidence-based Medicine Interdisciplinary Review Committee, National Board of Medical Examiners, January 2015 – Present

Member, American Academy of Pediatrics Committee on Pediatric Education, January 2013 – present

Member, Step 2 Interdisciplinary Review Committee USMLE Step 2 National Board of Medical Examiners, 2004 – present

**USD Sanford School of Medicine:**

Medical Education Committee, July 2018 – present

Student Progress and Conduct Committee, March 2018 – present

MD/PhD Admissions Committee – 2016 - present

Chair, GME Residency Recruiting Committee, 2011 – present

Promotion and Tenure Committee, March 2010 - present

- Chair, Promotion and Tenure Committee 2017
Graduate Medical Education Committee, August 2008 – present

Sanford Health:
Executive Director, Medical Education, January 2016–present
Sanford Health Plan Physician Quality Committee, 2017 – present
Claims, Risk and Patient Relations Committee, September 2011 – present
Pediatric Care Monitoring Committee, December 2008 – present
Pediatrics

Jade Arrobas, DO  
First Year

Jessica Barnes, DO  
First Year

Ashley Coaston, DO  
First Year

Anna-Lisa Martino, MD  
First Year

Nathaniel Nelson, DO  
First Year

Emelia Stille, DO  
First Year

Rebecca Gehrmann, MD  
Second Year

Caleb Hentges, DO  
Second Year

Joseph Presson, DO  
Second Year

Taryn Raschein, MD  
Second Year

Tara Robare, DO  
Second Year

Kristin Stuive, DO  
Second Year

Bryan Blacker, MD  
Third Year - Chief

Sarah Jackson, DO  
Third Year

Aimee Koenig, MD  
Third Year

Molly Linn, DO  
Third Year - Chief

Michael Turner, DO  
Third Year

Shawna Young, MD  
Third Year
DIVISION CHIEF REPORTS

Cardiology
Dr. Theresa Stamato, Division Chief
Division Members
Dr. Nofil Arain (NA); Associate Professor of Pediatrics
Dr. Edgard Bendaly (EB); Associate Professor of Pediatrics
Dr. Theresa Stamato (TS); Clinical Professor of Pediatrics
Dr. William Waltz (BW); Associate Professor of Pediatrics

Teaching
Medical Students

Pillar 1
Clinical Correlations Lecture- Cardiac embryology and shunt physiology (BW)

Pillar 3
MSIII: Steven Donahue 1/15 – Dr. Waltz
MSIV: Nathan Zvejnieks 1/28-2/1 – Dr. Stamato
MSIV: Sara Free 2/19-3/16- Dr. Stamato
MSIII: Mitch Patrick 4/25, 5/30, 5/31, 6/6, 6/19, 7/25, 8/1- Stamato
MSIII: Ethan Nemmers 5/2, 5/16, 5/30, 6/13, 6/27, 7/11, 7/25– Arain
MSIII: Caleb Heiberger 5/3, 5/10, 5/24, 6/6, 6/14, 6/20, 7/18, 8/1– Waltz
MSIII: Charissa Etrheim 8/20, 9/17, 10/1, 10/15, 10/29, 11/26, 12/4,12/10, 12/24 – Waltz
MSII: Tiffany Kopesky 8/21 – Stamato
MSIII: Laura Rezac 8/22, 9/05, 9/19, 10/3, 10/17, 10/31, 11/14, 11/28, 12/12, 12/26 – Arain
MSIII: Kevin Rance 8/29, 9/26, 10/24, 12/05 - Stamato
MSIV: Zachary Weber 12/10-12/31- Stamato

Lectures
Pediatric cardiac history (BW)
Pediatric cardiac physical exam (BW)
Murmurs and heart sounds (BW)
Cyanotic newborn (TS)
Small Groups
Pediatric EKG primer (BW & NA)
Arrhythmia recognition (BW)

Residents
Electives
Pediatric Cardiology mandatory elective- (NA, EB, TS, BW)

Lectures
Pediatric cardiac history (BW)
Pediatric cardiac physical exam (BW)
Murmurs and heart sounds (BW)
Kawasaki’s Disease (TS)
Pulmonary Hypertension (EB)
Acquired heart disease (NA)

Mentoring
Residents (NA, EB, TS, BW):
Resident: Kirsten Schneider 1/8-2/4
Resident: Megan Meis 2/5-3/4
Resident: Sarah Jackson 6/25 -7/22
Resident: Michael Turner 7/23-8/19
Resident Molly Linn 9/17-10/14
Resident Bryan Blacker 10/15-11/11

**Adult Cardiology Fellows** (NA, EB, TS, BW)
Vishesh Kumar Cardiology Fellow 6/18 to 6/29/2018

**CME**
**Lectures**
Various topics in pediatric echocardiography for sonographers (TS, BW, NA, EB)
Adult Congenital Heart Disease, Part II
Cardiovascular Fellow Core Lecture Series, Department of Internal Medicine
University of South Dakota Sanford School of Medicine, Sioux Falls, 04/2018
Adult Congenital Heart Disease, Part I
Cardiovascular Fellow Core Lecture Series, Department of Internal Medicine
University of South Dakota Sanford School of Medicine, Sioux Falls, 03/2018

**Programs**
Director, Congenital Cardiac Catheterization Laboratory (EB)
Director, Pediatric Cardiology Residency Elective (BW)
Director, Adult Cardiology Fellowship, Pediatric Cardiology Elective (BW)

**Clinical Service**
**New Clinics/Programs/Outreach**
**Outreach**
Sheldon, Dakota Dunes (NA), Aberdeen, Pierre, Worthington (TS)
Watertown, Mitchell, Brookings (BW)
**Patient Information**
After Visit Summary (Meaningful Use) (TS)

**Innovative clinical services**
Implement protocols within EPIC best practices (TS, BW, NA, EB)
Team Building (TS)
Arrange for echo quality improvement with cooperation with Ann Arbor (TS)
Set up new EKG modality (MUSE) (BW)

**Volunteer Service**
**Medical School**
Student Progress and Conduct Committee, University of South Dakota Sanford School of Medicine, 06/2015 – present (NA)
Pediatric Interest Group Meeting for Medical Students, University of South Dakota Sanford School of Medicine, 05/2016 (NA)
Medical Student Financial Aid Committee
University of South Dakota, Sanford School of Medicine, 11/2013- present (NA)

**Hospital/Clinic**
Technology and Clinical Informatics, Chairman, 7/2010- present (BW)

**University**
Sanford Black Hills Pediatric Symposium Planning Committee, University of South Dakota Sanford Children’s Specialty Clinic, 08/2014 – present (NA)

**Community**
Mended Little Hearts (Family support group) (TS)

**Professional**
February 2015– Member, Editorial Board, Musculoskeletal Regeneration Journal (EB)
Other

Memberships
The Society for Cardiovascular Angiography and Interventions (EB)
The American Academy of Pediatrics, Fellow (NA, EB)
The American Heart Association (EB, TS)
The American College of Cardiology (NA, TS, BW)
The American Society of Echocardiography (TS)
The South Dakota Medical Association (NA, TS, BW)
Child’s Voice/Child Abuse
Dr. Nancy Free, Division Chief
Division Members
Brooke Jones, MD
Kirsten Persson, PAC
Shelly Hruby, CNP
Other staff: 3 Forensic Interviewers, 2 Nurses, 2 Child Advocates, 2 Family Advocates, 1 Patient Access (shared), 1 Department Director (shared), and 1 Department Assistant.

Child’s Voice is a nationally accredited Child Advocacy Center that provides medical evaluations for children who may be victims of abuse and neglect. Evaluations are provided in the inpatient and outpatient setting. Children are referred by medical professionals, law enforcement and Child Protection Services. Evaluations are performed utilizing a multidisciplinary approach so as to avoid further traumatizing children by the systems designated to help them.

Services provided by Child’s Voice include:
Medical evaluations for potential maltreatment for children from birth through age 18, and for developmentally delayed adults when requested. Evaluations include Forensic Interviews for children developmentally able to participate, generally beginning at age 3 years.
Family consultation
Advocacy
Crisis counseling
Expert testimony regarding child maltreatment in state, tribal, and federal courts is provided by medical providers and Forensic Interviewers.
Foster Care Clinic: Children in out of home placement receive comprehensive evaluations including review of gathered medical records, developmental screen, mental health screen, vision and hearing screens, dental assessment with application of fluoride varnish when appropriate. Comprehensive report is available to primary provider. Referrals for indicated follow up are made in conjunction with primary provider.

Teaching:
Medical Students
Pillar 1
Six Pillar I students spent days at Child’s Voice

Pillar 2
Two Pillar 2 students for LIC pediatric subspecialty

Pillar 3
Students participate in child abuse learning by spending 4-16 hours at Child’s Voice through the “Health Care for the Underserved” rotation, and through involvement with inpatient SCAN consults

Lectures: Lectures to Pillar I Class on Child Maltreatment topics: Adverse Childhood Experiences, Physical Abuse, Abusive Head Trauma, Sexual Abuse, Neglect, Intimate Partner Violence, Medical Child Abuse, and Mandated Reporting.

Mentoring
Individual students- individual Pillar 3 student with interest in pediatrics and child abuse pediatrics
Healthcare Profession Students
Physician Assistant USDSSOM classes receive 4 hours didactic training on child abuse and neglect, mandatory reporting
Nursing classes at University Center: 2 hours didactic training on child abuse and neglect, mandatory reporting
Nurse Practitioner students: 2 hours didactic training on child abuse and neglect, mandatory reporting
Lake Area Technical Nursing Students – Clinic Preceptorship Site, Watertown, SD

Undergraduate / Graduate Students
University of South Dakota Family Violence Class – Recognition and Response to Child Abuse, Adverse Childhood Experiences, Mandated Reporting, spring and fall semesters
University of Sioux Falls Graduate Students – ACEs, Minimal Facts, Recognizing and Responding to Child Maltreatment.
University of Sioux Falls Nurse Practitioner Honors Course: Childhood Trauma
Three BSW Interns were provided internships at Child’s Voice
RISE UP Intern from LEND Program provided internship at Child’s Voice
ANEW Nurse Practitioner Workshop – focus on child maltreatment

Residents
Electives
Pediatric Residents – Four residents did block rotations at Child’s Voice
Center for Family Medicine Residents – Seven residents spent 1-2 days at Child’s Voice

Lectures
Pediatric Residents – 4 noon lectures on child maltreatment topics
Center for Family Medicine Residents – 2 noon lectures on child maltreatment topics

CME
Child Maltreatment Grand Rounds: quarterly presentations on topics pertinent to child maltreatment awareness, response, and prevention.
Pediatric Grand Rounds: April presentation on Child Sexual Abuse
18th Annual Community Response to Child Abuse Presentations Child’s Voice CME presentations:
Physical Abuse 101
Sexual Abuse 101
The Drug Endangered Child
Forensic Evidence Collection Workshop
Human Trafficking in South Dakota
Sexual Behaviors of Children
Physical Abuse Case Presentations and Analysis

Clinical Service
Outreach Clinic
Child’s Voice services are provided at Sanford Clinic in Watertown, SD in a regional multidisciplinary team setting. 2018-2019 is the second of the three year pilot program which is part of the 10 year plan to end child maltreatment in South Dakota. Partnership with Center for the Prevention of Child Maltreatment will assist in development of other regional multidisciplinary teams in South Dakota.
The REACH (Respond, Educate, Advocate, Counsel, Heal) Team includes professionals with child maltreatment expertise on site in each of these disciplines: medical, forensic interviewing, law enforcement, child protection, mental health, advocacy. South Dakota is a rural state. Children may need to travel more than 200 miles to access appropriate medical care, forensic investigation tools and counseling. The child may be required to visit several communities to receive all services needed and the family may find little support while navigating the system. The core tenet of the regional MDT is to provide one place within a 2 hour drive where the child can have a medical exam, including a forensic interview, while investigators gather information from the family. The goal is to
reduce the distance traveled for services and better meet the needs of the child and family, while appropriately collecting evidence. Collaborating partners include Child’s Voice, Child Advocacy Centers of South Dakota, The Center for the Prevention of Child Maltreatment at University of South Dakota, Department of Social Services Division of Child Protection, Division of Criminal Investigation, and Watertown Police Department. The development process includes 6 hour trainings for multidisciplinary team members in 13 counties in northeast South Dakota. Development of Pediatric Forensic Evidence Kit for South Dakota – distributed by Department of Health to better meet the needs of children who are potential victims of sexual abuse/sexual assault. Sexual Assault Nurse Examiner (SANE) Trainings

Volunteer Service
Community
Trainings provided for Multidisciplinary Team Agencies and Advocacy Agencies
Court Appointed Special Advocates (CASA): Training provided quarterly for new staff and volunteers
Sioux Falls Police Department New Recruits: Training provided regarding recognition and response to child maltreatment 6 times yearly
Sioux Falls Police Department School Resource Officers: officers trained regarding child maltreatment recognition and response
Department of Social Services Division of Child Protection: Training for new workers x 8 hours, three times a year in Pierre, SD on Child Physical Abuse; Abusive Head Trauma; Child Sexual Abuse; Human Trafficking; Intimate Partner Violence; Neglect; Children in Foster Care; Drug Exposed / Endangered Infants and Children; and Prevention.

Professional
Committee /Board Membership
Center for the Prevention of Child Maltreatment
Child Advocacy Centers of South Dakota
Regional Infant and Child Mortality Review Committee
Collaborate planning Children’s Day at the Capitol
South Dakota East River Human Trafficking Task Force
Sexual Assault Response Team (SART) Steering Committee Member: Steering Committee addresses sexual assault issues in community and identifies best practice policies and procedures.

Other
Child’s Voice Maltreatment Awareness/Prevention Initiatives
Abusive Head Trauma – The Period of PURPLE Crying
Support provided to hospitals with newborns regarding program fidelity; Education is provided regarding normal infant behaviors to high school students, child care providers, and community members
Henry’s Run is a 5k run/walk every April to raise dollars and awareness for child abuse prevention.

No Hit Zone (NHZ) –
A ‘No Hit Zone’ is an environment in which no adult shall hit a child, no adult shall hit another adult, no child shall hit an adult, and no child shall hit another child. The purpose of this program is to create and reinforce environment of comfort and safety for patients, families, and staff working in our facility.
Child’s Voice is a No Hit Zone; instruction and support provided to agencies/departments instituting NHZs.
ENOUGH Abuse Campaign – Trainers provide educational information to professionals, parents, youth, and other concerned individuals regarding prevention of sexual abuse.
ACEs and Resiliency – Trainers provide education regarding adverse childhood experiences and resilience to professional and community audiences.
**Critical Care**

Dr. Joseph Segeleon, Division Chief  
**Division Members**  
Mir Ali, Benson Hsu  
Jody Huber  
Lesta Whalen  
Gokhan Olgun  
Ashley Sandeen

**Teaching**

**Medical Students**

Joseph Segeleon  
Teach medical students who participate in the subinternship for pediatric critical care.  

Mir Ali  
Daily bedside teaching rounds in pediatric ICU for pediatric residents

**Pillar 1**

Ashley Sandeen:  
Morgan Sorenson, MSI  
Benson Hsu: Cardiovascular Team Based Learning (TBL): Shock

**Pillar 2**

Ashley Sandeen:  
Natalie Walter, MSII  
Benson Hsu:  Journal Club Small Group

**Pillar 3**

Lesta Whalen: Teaching during rounds (chalk talk), scheduled lectures while on elective

Jody Huber  
PICU Sub-Internship Rotation Director

**Small Groups**

Jody Huber  
The sub-interns will participate in small group discussions during the PICU rotation. I was a small group leader for Pillar 2 students as they worked through a case and presented learning objectives (July 2019).

**Mentoring**

Benson Hsu  
Scholarship Pathway: D. Arendt (M3)

Jody Huber  
I have 2 medical student mentees, Chandler Nielsen and Karina Ortman.

**Electives**

Benson Hsu:  
Health Policy and Physician Leadership
Healthcare Profession Students
Jody Huber
Emergency Department Nursing Education – three times yearly
“Pediatric Upper & Lower Respiratory Disease”
“Pediatric Status Epilepticus”
Pediatric Flight Nurse Education Series, Sanford Children’s Hospital
“Radiology for Transport Medicine”
“Sepsis”
“Acute Liver Failure”
“Heatstroke”
Critical Care Nursing Education, Sanford Children’s Hospital
“Blood Gas Interpretation & Radiology for Pediatric Critical Care Nursing”

“Pediatric Nursing Educational Series: Pediatric Congenital Heart Disease” Sanford Pediatric Nursing Educational Series. Sioux Falls, SD. May 2019.

Undergraduate Students
Benson Hsu
A. Reuter (USD): Impact of payer concentration on clinical outcomes
K. Patrick (Cal Berkeley): Impact of socioeconomic status on eating disorders hospitalizations
L. Sherron (Princeton): Population health on global healthcare
SDSU Freshman Seminars in Mathematics: Analytics for the Healthcare Graduate

Graduate Students
Benson Hsu
U of Pennsylvania Wharton School of Business: Sanford Health Journey on Healthcare Analytics
Duke University Fuqua School of Business: Healthcare Analytics Career Panel

Residents
Lectures
Lesta Whalen
Core Lecture series lectures – toxicology, TBI
Attend PICU morning report 1-2x/month
PICU Mock Code

Ashley Sandeen
Pediatric Resident Core Curriculum 08/2018
Mechanical Ventilation
Case-based lectures in the PICU

Gokhan Olgun
Pediatric Airway Emergencies
Pediatric Shock
Identifying Sodium Abnormalities
   Sedation and Analgesia
   Status Epilepticus
   Diabetic Ketoacidosis
   Traumatic Brain Injury
   Status Asthmaticus
8/27/19- Pediatric Procedural Sedation and Sedative Medications
Flight Nurse Education
Pulmonary Hypertension (3/2/2019)

Joseph Segeleon
Management of children with DKA. Resident Lecture Series. Sanford Medical Medical Center.
Sioux Falls, South Dakota. August 2018.
Saying Nothing is Saying Yes. Key Aspects in Improving Team Function. Residency Lecture Series. Sanford School of Medicine at the University of South Dakota. Sanford Medical Center. Sioux Falls, South Dakota. June 2019

Benson Hsu
Core Lectures; Bedside Chalk Talk on PICU/Sedation Rotations

Jody Huber
Senior Resident Orientation – June 2019
Sedation & Analgesia – July 2018
Traumatic Brain Injury – August 2018
Shock – August 2019
Upper & Lower Respiratory Diseases – September 2019
I also provide 6 discussions during the resident rotation in the PICU with each resident that rotates through the PICU, in addition to bedside teaching during rounds.
Mock Codes – twice per rotation block
Procedural Boot camp – yearly

Mir Ali
Pediatric Airway Emergencies
Pediatric Shock
Sodium Abnormalities
Sedation and Analgesia
Status Epilepticus
Sites of Drug Action in the Renal system
Pharmacokinetics
Diabetic Ketoacidosis
Traumatic Brain Injury
Status Asthmaticus
Pediatric Airway Emergencies
Pediatric Sepsis & Shock
Tumor Lysis Syndrome
Blood Gas and Chest Xray Interpretation
Diabetic Ketoacidosis
Acute Respiratory Failure
Pediatric Cardiac Arrest
Pediatric Airway Management
Mentoring
Lesta Whalen
Mentor to one second year resident

Ashley Sandeen
Sarah Jackson, MS3

Joseph Segeleon
Mentoring Mentees- Jon Ryckman, Carl Galloway

Jody Huber
Caleb Hentges, PGY-2
Bryan Blacker, PGY-3
Mir Ali
2018- on-going
Mentees
Laura Rezac  Medical Student – USD
Emily Yoon  Medical Student – USD
Kayla Munger  Medical Student – USD
Ali Haines  Medical Student – USD
Sean Todd Pickthorn  Medical Student – USD
Tania Eunice Padilla  Medical Student – USD
Joe Carl Kolba  Medical Student – USD
Erin Joe Mercer Terpstra  Medical Student – USD

Comparison of Nitrous Oxide with oral Midazolam In Pediatric Sedation: Quality Improvement project -Nitrous Arm

Mentored/Mentoring the above mentioned students in creating and implementing this research survey designed to evaluate parent/guardian satisfaction with midazolam use for pediatric sedation during Botox injection, voiding cystourethrogram (VCUG), intravenous catheter placement, and other simple outpatient procedures. Parents'/guardians' general understanding of the sedation method and procedural logistics are being surveyed and their satisfaction with the child’s level of comfort, procedure recovery time, and overall satisfaction is being assessed. Each of these components is rated on a scale of 1-10 with 1 being dissatisfied and 10 being satisfied. The plan is to collect data on 100 patient encounters and analyze. A similar survey is underway for Nitrous oxide gas use. The results will be used to conclude which modality would be the best to help improve patient satisfaction during pediatric sedations (Midazolam vs. Nitrous oxide).

CME
Lectures
Lesta Whalen
Flight team lectures – Metabolic crisis, near drowning

Benson Hsu
Neonatal ECMO Management – ECMO Specialists

Programs
Lesta Whalen
ECMO CME lectures and wet labs monthly for RN and RT.

Ashley Sandeen
Brave Enough Conference 2018

Joseph Segeleon:
Give a number of talks across disciplines and around the enterprise that are CME credited. “Saying Nothing is Saying Yes: How to Stop the Line” Patient Safety and Morbidity and Mortality Rounds. Sanford Medical Center. Sioux Falls, South Dakota. August 2018.
Saying Nothing is Saying Yes.  Key Aspects in Improving Team Function. Labor and Delivery providers/staff. Sanford Medical Center. Sioux Falls, South Dakota. July, 2019
**Scholarly Activity**
Ashley Sandeen
Completed Leading for Improvement 04/2019

**Publications**
Lesta Whalen
Bills T, Davis-Keppen L, Meyer L, Whalen L, Cobalamin-C Methylmalonic Acidemia and Homocystinuria in Neonate Presenting as Persistent Pulmonary Hypertension Requiring Extracorporeal Membrane Oxygenation, Neonatology Today, April 2019: 14(4); 10-13 (see attached PDF)

Gokhan Olgun
Characterization of social needs of pediatric patients in a rural clinic in Sioux Falls. Linn M, Larson K, Huber J, Olgun G. (Manuscript in preparation)

Benson Hsu

Daniel A. Rauch
**Committee on Hospital Care**, Section on Hospital Medicine. Physician’s Role in Coordinating Care of Hospitalized Children. Pediatrics Aug 2018, 142 (2) e20181503; DOI: 10.1542/peds.2018-1503 PubMed PMID: 30061298

Mir Ali
Sean Pickthorn MD, Erin Terpstra MD, Tania Padilla Conde MD, Joe Kolba MD, Mir Ali MD

**Presentations**

**Local**
Ashley Sandeen
Pediatric Research Day 05/2019
Now I Know MY ABCs- Delirium Prevention and Screening in the Pediatric ICU

Jody Huber
“Pediatric Nursing Educational Series: Pediatric Congenital Heart Disease” Sanford Pediatric Nursing Educational Series. Sioux Falls, SD. May 2019.

Mir Ali
Pediatric Toxidromes

**Regional**
Ashley Sandeen
PI Symposium, Sioux Falls, SD 04/04/2019
Now I Know MY ABCs- Delirium Prevention and Screening in the Pediatric ICU
Integrating Progressive Mobility into the EMR in the PICU

Mir Ali
Black Hills Conference
National
Benson Hsu
Addressing Real World Challenges in Learning Health Systems; AcademyHealth, Washington DC
Summit on Gun Injury Prevention: Mobilizing for Action; AAP, Itasca, Illinois
Learning Healthcare Systems through Embedded Research; AcademyHealth / Kaiser / VA, Pasadena, California

Jody Huber
“Top Articles in Medical Education 2018: Applying the Current Literature to Educational Practice and Scholarship. How What We Say, Do and Write Impacts Patients, Families & Learners” Hot Topic/Topic Symposia. Pediatric Academic Societies (PAS); Baltimore, MD. April 2019.

Posters
Regional
Joseph Segeleon:

Benson Hsu
Emergent Asthma Care in Pediatrics; SD EMS Annual Conference, Sioux Falls, South Dakota
Diabetics and Fluid Management; H-EMS for Children Coalition, Sioux City, Iowa

National
Gokhan Olgun
Epidemiology and Characteristics of Adolescent Deliberate Poisoning in South Dakota. Kirsten Schneider MD, Gokhan Olgun MD, Jody Huber MD/Pediatric Academic Societies Meeting, April 24-May 1, Baltimore

Benson Hsu
Novel Efforts to Improve High Value Care for Complex Patients; AcademyHealth ARM 2019, Washington D.C.
Journey from Foundation to Artificial Intelligence; Real Business Intelligence 2019, Boston, Massachusetts
Mini Plenary: Era of Big Data in Healthcare; Pediatric Hospital Medicine, Atlanta, Georgia

Manuscripts
Jody Huber

Clinical Service
New Clinics/Programs/Outreach
Ashley Sandeen
ABCDEF quality initiative in the Pediatric ICU- implementation of 3 new protocols
Delirium Screening (CAPD)
Extubation readiness testing protocol
Early Mobility protocol

Gokhan Olgun
10 weeks of Outpatient Sedation Service and 8 weeks of inpatient service duty.
50 inpatient calls in PICU.

Mir Ali
Nitrous Implementation Project
Nitrous oxide is an inhaled gas used mostly by dentists to reduce anxiety and pain in patients.
Due to its high safety margin, good anxiolysis, analgesia and amnestic effect, children undergoing minimally invasive procedures such as IV placements, Urinary catheter placement and Botox injections can benefit from its use leading to reduced emotional trauma, improved patient and parental satisfaction.

Manual created for device assembly & storage
Administration manual created for nursing staff and healthcare providers at Sanford Children’s Hospital
Formulated Policies for device use, medication and healthcare staff safety, which have been approved by Hospital Committees.
Nitrous oxide Order-set created

**Innovative clinical services**
Lesta Whalen
Assist with development of adult CMO program – Ongoing

Mir Ali
Attendance at Provider Meetings, Faculty Meetings and Grand Rounds
Involved with PICU PI projects to the Sanford School of Medicine and USD
Teaching pediatric residents and medical students who rotate thru Pediatric ICU.
Clinical Inpatient service weeks in pediatric ICU
Outpatient Sedation service weeks
Administration – Director pediatric Outpatient sedation services
Pediatric resident education
PALS courses: Teaching PALS courses at Sanford learning center.

**Volunteer Service**

**Medical School**
Lesta Whalen
Medical school admission committee – 2 year appointment
WIMS: Mentoring Co-Chair

Gokhan Olgun
Member of Student Progress and Conduct Committee

Benson Hsu
Nominating Committee, Sanford School of Medicine, USD
Health Affairs Medical Informatics Committee, Sanford School of Medicine, USD
Department of Pediatrics Awards Committee, Sanford School of Medicine, USD

Jody Huber
2019-present Medical Education Committee, University of South Dakota
2017-present Resident Wellness Committee, University of South Dakota
Committee Chair
2017-present Faculty Development Committee, University of South Dakota
2017-present Graduate Medical Education Committee, University of South Dakota
2016-present Women in Medicine and Sciences (WIMS), University of South Dakota
2016-2019, Planning Committee Chair
2015-present Associate Program Director
Pediatric Residency Program, University of South Dakota
2015-present MSIV Sub-Internship Rotation Director
Pediatric Intensive Care Unit, University of South Dakota, Sanford Children’s Hospital
2013-present Pediatric Faculty Writing Group, Sanford Children’s Hospital
Organizer
2012-present Pediatric Residency Rotation Director
Division of Pediatric Critical Care, University of South Dakota
2013-present Resident Mock Codes, University of South Dakota
Creator/Designer with Steven Messier, MD
Monthly mock codes in simulation center
2013-present Pediatric Resident Boot Camp, University of South Dakota
Creator/Designer with Steven Messier, MD
Yearly procedural boot camp
2012-present Pediatric Residency Program Evaluation Committee, University of South Dakota
2012-present Pediatric Residency Education Committee, University of South Dakota
2012-present Pediatric Residency Recruitment Committee, University of South Dakota

**Hospital/Clinic**
Ashley Sandeen
Resident Wellness Committee
PICU ABCDEF Committee
Sanford Quality Council
Sanford SMART Women- Committee Member

Gokhan Olgun
Pediatric Transport Medicine Director

Joseph Segeleon
Currently, Vice President, Medical Officer that entails CMO duties at Sanford Children’s in SF and enterprise pediatric responsibilities.
Multiple hospital and enterprise committees.

Jody Huber
2018-present Pediatric Clinical Documentation Improvement, Sanford Children’s Hospital
Physician Lead
2017-present Pediatric Sepsis Quality Improvement Group, Sanford Children’s Hospital
Education Lead
2016-present Pediatric Advanced Life Support Instructor
2015-present Pediatric Executive Committee, Sanford Children’s Hospital

**University**
Ashley Sandeen
USD- WIMS Steering Committee- Mentoring Co-Chair

**Community**
Benson Hsu
Industry Advisory Board, Data Science and Analytics Program, University of Missouri

**Professional**
Lesta Whalen
Treasurer, North Central Chapter Society of Critical Care Medicine
SCCM Pediatric Online Module Development
Program improvement SCCM
Article reviewer Pediatric Critical Care Medicine Journal

Ashley Sandeen
Abstract reviewer- AAP SOCC

Benson Hsu
Aspen Global Leadership Network (AGLN)
Methods and Data Council, AcademyHealth
Annual Research Meeting (ARM) Planning Committee, AcademyHealth
Society of Critical Care Medicine (SCCM)
MCCKAP Committee, Pediatrics, Society of Critical Care Medicine (SCCM)
Chair Elect of Executive Committee, Section on Critical Care (SOCC), AAP  
Disaster Preparedness and Response Champion, South Dakota Chapter, AAP

Jody Huber  
2019-present  SMART (Strength Medicine Authenticity Resiliency Truth) Women  
Developer, support group for female physicians at Sanford Health  
2018-2019  Sanford Leading the Way, Leadership Development Course, Sanford Health  
2018-present  Academic Pediatric Association, Education Committee, Update in Medical Education Subgroup  
2019-present  Educational Scholars Program, Faculty Advisor Cohort 9, Academic Pediatric Association

**Other**  
Benson Hsu  
Journal Reviewer  
Ad hoc Reviewer, NEJM (New England Journal of Medicine) Catalyst  
Ad hoc Reviewer, Pediatrics in Review  
Ad hoc Reviewer, Hospital Pediatrics  
Ad hoc Reviewer, South Dakota Medicine

Scientific Abstract Reviewer  
Scientific Abstract Reviewer, Society of Critical Care Medicine Annual Meeting  
Scientific Abstract Reviewer, American Academy of Pediatrics National Conference & Exhibition  
Student Poster Reviewer, AcademyHealth Annual Research Meeting  
Scientific Abstract Reviewer, AcademyHealth National Health Policy Conference  
Honors  
Fellow, American College of Critical Care Medicine (FCCM), Am College of Critical Care Med  
Bush Leadership Fellow, Bush Foundation  
Aspen Health Innovators Fellow, Aspen Institute  
Commencement Speaker of Graduate Programs, South Dakota State University  
Administrative  
Vice President, Population Health, Sanford Health


**Developmental and Behavioral**

**Dr. Carrie Kippes, Division Chief**

**Division Members**

Erin Schroeder, APRN-CNP, Noelle McGee, APRN-CNP

**Teaching**

**Medical Students**

We had a 3rd year medical student do an elective rotation with us in 1/2019

**Healthcare Profession Students**

We had two NP students rotate with us in 2019

**Residents**

PGY-2 Development Rotation

**Electives**

PGY-3 did a rotation 8/2018. Same PGY-3 did continuity clinic in developmental every other week (alternating with primary care).

**Mentoring**

Worked with same PGY-3 re: fellowship application process

**Scholarly Activity**

**Presentations-Oral**

**Local**

4/2019 Imagenetics Community Lecture Series “Managing Developmental Disabilities”

Regional: Sanford Black Hills Pediatric Symposium 7/2019

“IEP vs 504 Plan for Primary Care”

“ADHD Update for Primary Care”

**Clinical Service**

**New Clinics/Programs/Outreach—Multidisciplinary Team Clinics**

LEND Clinic with USD

Myelo Clinic/Spina Bifida Clinic at SCSC

Autism/ADOS Clinic at SCSC

Early Childhood Development Clinic at Lifescape

**Volunteer Service**

**Hospital/Clinic**

Complex Care Committee (Kippes)

Employee Appreciation Committee (Kippes)
Endocrinology
Dr. Alaa Al Nofal, Division Chief
Division Members
Alaa Al Nofal, MD, John Shelso, MD, Kurt Griffin, MD, Karen Hanisch, CNP

Teaching
Medical Students
Pillar 3
Kate Waligoske
Lodgan Radtke
Nick Thielen
Adam Bleeker

Residents
Tara Robare
Kristin Stuive
Taryn Raschein
Joseph Presson
Ashley Coaston
Mentoring
Joseph Presson, D.O.
Electives
Residents rotating through pediatric endocrinology clinic.

CME/Scientific Meetings
Programs
27-30 January 2018 – Midwinter Conference of Immunologists
31 January – 3 February: Levine/Riggs Diabetes Symposium
3-8 May 2018 – Pediatric Academic Society
20-23 June 2018: Federation of Clinical Immunology Societies

Faculty Mentoring:
Dr. Shalome Dsouza
John Shelso, MD
Michelle Baack 2016 – Present
Santiago Valdez 2019 – Present

Graduate Students
CPHD792 Genetics of Human Disease: Lectures and discussion section on genetics of diabetes.
November 2017. Course director: Lance Lee, Ph.D.
Residents

Scholarly Activity
Publications
Fill the Education Gap to Make DKA a Rare Event, AAP Journals and Periodicals Blog, August 2019.
Grants

Awarded

“Chimeric T regulatory cells for type 1 diabetes treatment” Sanford Foundation pilot grant. $40,000
Role: Co-PI

1 R44 AI142905-01 NIH SBIR “Advancing a Candidate Human Polyclonal Anti-Thymocyte Globulin Product Produced in Transchromosomal Bovine for Transplant Induction/Acute Rejection and T1D Therapy.” Role: Co-investigator. Impact Score: 24
Phase 1 awarded January 2019. $199,605
Phase 2 Awarded September 2019. $1,000,000

“Chimeric T regulatory cells for type 1 diabetes treatment” Sanford Foundation pilot grant. $40,000
Role: Co-PI, 2018

Submitted

1 R44 AI142905-01 NIH SBIR “Advancing a Candidate Human Polyclonal Anti-Thymocyte Globulin Product Produced in Transchromosomal Bovine for Transplant Induction/Acute Rejection and T1D Therapy.” Role: Co-investigator. Impact Score: 24

“Chimeric Regulatory T Cells for Type 1 Diabetes Treatment” R01 application for RFA on engineered immune therapies for T1D. Expected review May 2019. Role: Co-investigator.

Active funding for clinical trials:

Type 1 Diabetes Clinical Trials, The Sanford Project. 2013 – Present, $300,000/year.
Preserving Beta-Cell Function with Tocilizumab in new-onset Type 1 Diabetes. Immune Tolerance Network, 2016 – 2020 $115,074/year
Pathways to Prevention (TN-01). Diabetes TrialNet, 2007 – Present. $18,000/year.

Provention Bio PROTECT study $130,000/year
Inrexon AG019/Teplizumab study: $52,000

Presentations

Invited presentations:

“Type 1 Diabetes Research Update” Sanford Diabetes Symposium, Fargo, ND, 11 October 2018.
“The Sanford Project T-rex Study” Sanford Cell Therapy Symposium, Sioux Falls, SD, 25 April 2019
“T1D Research Update” Sanford Diabetes Care Conference, Sioux Falls, SD, 23 August 2019.

Local

“Type 1 Diabetes Clinical Trials.” Sanford Research Diabetes Update, 23 August 2017
“Type 1 Diabetes: Looking Beyond Insulin Therapy” Sanford Research Faculty Retreat, 15 June 2018.

Regional

Common Endocrine Presentations in Children, South Dakota Academy of PAs, September 2019.

International

“EXTEND: Preserving Beta-Cell Function with Tocilizumab in New-onset Type 1 Diabetes” NCT02293837. Immune Tolerance Network. Site PI, November 2014 – Present

“Type 1 Diabetes Extension Study (TIDES)” NCT02734277. Immune Tolerance Network. Site PI, July 2017 – Present
NovoNordisk NN4401: Efficacy and Safety of Faster-acting Insulin Aspart Compared to NovoRapid® Both in Combination With Insulin Degludec in Children and Adolescents With Type 1 Diabetes. NCT02670915. Site PI May 2016 – April 2018.
Mylan Pharmaceuticals “MYL-1501D-3004: Protocol Title A Randomized, Multi-center, Double-Blind, Parallel-Group Clinical Study Comparing the Efficacy and Safety of MYL-1501D Produced by Two Manufacturing Processes in Type 1 Diabetes Mellitus Patients” NCT03376789. Site PI. March – September 2018

Protocols in start-up:
Medtronic. “CEP-304” multi-center, randomized, parallel, adaptive, controlled trial in adult and pediatric patients with type 1 diabetes using hybrid closed loop system and control (CSII, MDI and SAP) at home.” Site PI. Opening October 2018.
“Intrexon AG019-T1D-101: A prospective, multi-center, Phase 1b/2a study to assess the safety and tolerability of different doses of AG019 administered alone or in association with teplizumab in subjects with clinical recent-onset Type 1 Diabetes Mellitus (T1D).” Opening Fall 2018
“PROTECT: Provention Bio’s T1R Trial Evaluating C-Peptide with Teplizumab” NCT03875729. Provention Bio, Inc. July 2019 – Present, Site PI.
TN-25: Rituximab Followed by Abatacept for Prevention or Reversal of Type 1 Diabetes.” Expected opening Fall 2019.

Clinical Service
Outreach clinics
Aberdeen and Dakota Dunes, SD

Innovative clinical services
Innovation centers on developing and implementing clinical research centered on type 1 diabetes.
Clinical protocols active during this period:
Initiating telemedicine services to Watertown, SD Kurt J. Griffin, PhD, MD

Member of the following Hospital Committees
Patient Experience Committee at Sanford Children’s Hospital and Sanford Children’s Specialty Clinic.
Children of Medical Complexity Committee at Sanford Children’s Specialty Clinic.

Member of the following Pediatric Residency Committees
Pediatric Clinical Competency Committee at Sanford Pediatric Residency Program.
**Volunteer Service**

**Medical School**
University of South Dakota, Department of Pediatrics Research and Education Committee, January 2014–Present  
USD Pediatrics Mentoring Committee: July 2015–Present  
Sanford-Mayo pediatric symposium steering committee: 2016–Present

**Hospital/Clinic/Sanford Research**
Sanford Research IRB-3. April 2014–Present  
Sanford Research Clinical Liaison Committee: April 2014–Present  
Sanford Pediatric Research Center CoBRE Grant Internal Advisory Committee: 2015–Present  
Sanford Population Health CoBRE Grant Internal Advisory Committee: 2018–Present  
Sanford Research Faculty Leadership Committee: August 2016–Present  
Sanford Enterprise Diabetes Council: 2016–Present  
Sanford Enterprise Cellular Therapy Steering Committee: 2017–Present

**Community**
Sioux Falls Bicycle Committee  
Safe Cycling Instructor (one of 5 in SD certified by the League of American Bicyclists): 2014–Present.

**Professional**
JDRF advisory board: “Facilitating Pediatric Research in T1D” 2017–Present  
Pediatric Endocrine Society: Program Committee: 2011–Present  
Grant review: DoD diabetes grants  
Grant review: Canadian Health Research Council, [XXXXXXXXXX]  
Peer Review for Journals  

NP Student  
Stephanie Rush, Janelle Vande Griend

RX Student  
Crystal Vanlperen  
Brooke Schwasinger  
Christina Hansen  
Jacob Wormer  
Jenna Lund  
Emilee Pierson  
Angela Dahlgren  
Kylie Brooks  
Lauren Metzger  
Maddie Waldner  
Shelby Olson  
Whitney Specht  
Aerial Wenzel  
Khia Warzecha
**Gastroenterology and Nutrition**  
*Dr. Gary Neidich, Division Chief*

**Teaching**  
**Medical Students**  
Pillar 1  
2 students  

Pillar 2  
4 students for their Subspecialty Pediatrics  

Pillar 3  
2 students  

**MSIII students**  
Kindra Holsing, Matthew Lommen, Brendan Hurley, Boggy Anton  

**Healthcare Profession Students**  
Lecture to Genetic Counseling students at Augustana “Embryonic Development of the Digestive Tract”  

**Residents**  
**Electives**  
7 Pediatric Residents  

**Lectures**  
Morning Report Faculty Member  
Food Allergies and Intolerances, Failure to Thrive, Chronic Abdominal Pain  

**CME**  
**Programs**  
Moderator, Pediatric Gastroenterology Postgraduate Course, Chicago, Oct 2019  

**Scholarly Activity**  
**Publications**  

**Presentations**  
**Local**  
Liver Disease in Pediatrics, 2 lectures  

**National**  
NASPGHAN 2019 “Crohn’s Disease Isolated to the Appendix in a 7 yr old" Tonya Adamiak and Melissa Jensen  

**Clinical Service**  
**New Clinics/Programs/Outreach**  
Outreach, Pediatric GI  
Dakota Dunes outreach clinic twice per month  

**Innovative clinical services**  
Feeding Clinic, Endoscopy
**Volunteer Service**

**Medical School**
Graduate Medical Education  
Student Progress and Conduct Committee (SPCC), OSCE examination, Triple Jump for Pillar 2 students

**Hospital/Clinic**
Sanford USD Medical Center Pediatric Quality Committee  
Sanford USD Pediatric Floor Committee  
USD Pediatric Residency Clinical Competency Committee

**Community**
Dog foster family for B-Squad Dog Rescue, Board Member for the Teddy Bear Den

**Professional**
NASPGHAN (National Pediatric GI Organization) Professional Education Committee  
Moderator, NASPGHA Postgraduate Course  
Ethics Committee Member for NASPGHAN
General Pediatrics
Candice Nelson and Aaron Zylstra, Division Chiefs
Division Members
69th/Louise: Tracy Jones, Donna Weinacht, Candice Nelson, Laura Whittington and Aaron Zylstra.
32nd/Ellis: Rosanne Bosch, Katie Larson and Kaylie Reece
Brandon: Kassy Thorpe

Teaching
Medical Students
Pillar 1
Dr Haggar teaches Pillar 1 students.
Pillar 2
Most of the general pediatricians teach students during Pillar 2. The list includes Reece, Larson, Bosch, Nelson, Zylstra, Weinacht, Jones, Whittington, McKercher, L Bauer, Mailloux, VanBeek, Haggar, Ashbaugh, Henry, Schimelpfenig, and Wong-Nano.
Pillar 3
Dr Haggar taught Development to the medical students. Drs Zylstra, Whittington, Nelson, Ashbaugh, McKercher and Haggar have taught Pillar 3 students.
Lectures
Drs Schimelpfenig and Haggar gave lectures.
Mentoring
Dr Schimelpfenig mentors medical students.
Dr Haggar is a mentor to Emily Enders.
Dr Jones was a mentor to a student through WIMS.

Healthcare Profession Students
Drs Jones, Whittington, Zylstra, VanBeek, Haggar, Mailloux, McKercher, Schimelpfenig, Wong-Nano, Larson, B Bauer, Henry, L Bauer, and Jones taught PA or NP students in the office.

Undergraduate Students
Dr Henry, Haggar, B Bauer, Nelson, Schimelpfenig and Zylstra have had undergraduate students shadow them in the office.

Residents
Lectures
Drs Nelson, Zylstra, Weinacht, Whittington, Larson, Reece, Mailloux, Haggar, Elizabeth Bauer, Jones, Schimelpfenig, and Ashbaugh regularly give noon lectures on Primary Care pediatric topics to the pediatric residents.

Mentoring
Dr Nelson is mentoring Dr Young.
Dr Haggar was mentoring Dr Meis.
Dr Mailloux was mentoring Dr Vo.
Dr Ashbaugh was mentoring Dr Norris.
Dr Jones was mentoring Brian Blacker
Dr Larson is mentoring Dr Linn
Dr Schimelpfenig is mentoring Rebecca Gehrmann and Caleg Hentges.

**Rotations**
Dr Nelson is Director of Sanford Children’s Hospital Pediatric Residency Continuity Clinic. Dr Zylstra, Dr Weinacht, Dr Nelson, Dr Jones and Dr Whittington regularly supervise residents in this rotation. Dr Jones recently moved to Kansas City.
Dr Mailloux is Director of Sanford Children’s Pediatric Residency Outpatient rotation PGY-1. Pediatricians at MB2 and 26th/Sycamore supervise residents on this rotation.
Dr Jones was Director of Sanford Children’s Pediatric Residency Newborn Nursery Rotation. All the general pediatricians supervise residents on this rotation. Dr Wong-Nano will be replacing her.
Dr Nelson is Director of Sanford Children’s Pediatric Residency Outpatient rotation PGY-3. Dr Zylstra, Dr Weinacht, Dr Nelson, Dr Jones and Dr Whittington regularly supervise residents on this rotation.
Dr Mailloux is Director of Sanford Children’s Pediatric Residency Acute Illness rotation PGY-1. All the MB2 and 26th/Sycamore general pediatricians regularly supervise residents on this rotation.

**Committees**
Dr Weinacht is a member of the Sanford Hospital/University of South Dakota Pediatric Residency Competency Committee
Mentoring
Dr Nelson is mentoring Dr Olcott.
Dr VanBeek is mentoring Dr Haggar.
Dr Elizabeth Bauer was mentoring Dr Jones.
Dr Weinacht is mentoring Dr Whittington.
Dr Barry Bauer is mentoring Dr Wong-Nano.
Dr Schimelpfenig is mentoring Dr Larson.

**Clinical Service**
New Clinics/Programs/Outreach: Dr Zylstra is doing outreach in Orange City, Iowa. Dr Mailloux is the medical director for Children’s Inn and Children’s Home.

**Volunteer Service**

**Medical School**
Dr Barry Bauer is on the AOA committee.
Dr Ashbaugh is on the Alumni Relations Council.
Dr Schimelpfenig is on the medical education, Integration Sub-Committee, and clerkship director’s committee.
Dr Schimelpfenig is the Pillar 3 Director.
Dr Jones was the mentoring liaison with WIMS (USD Women in Medicine and Science)

**Hospital/Clinic**
Dr Nelson and Dr Zylstra are Co-Chief of Pediatrics for the Medical School
Dr Nelson and Dr Zylstra are on the Physician Executive Council
Dr Nelson is on the Clinic Executive Committee
Dr Nelson is Department Chair for General Pediatrics for Sanford Clinic
Dr Zylstra is Chief of Pediatrics for Sanford Hospital
Dr Zylstra is Chair of the Pediatric Care Committee for Sanford Hospital
Dr Zylstra is a member of the Sanford Health Plan P&T Committee
Dr Nelson is Co-Chair of the Professional Committee for Sanford Health
Dr Ashbaugh is a member of the Enterprise Clinical Practice Committee
Dr Ashbaugh is a member of the Perinatal Committee  
Dr Jones was on the Neonatal Care Services Committee  
Dr Katie Larson is on the Neonatal Care Services Committee  
Dr Katie Larson is on the Enterprise Immunization Committee.  
Dr Katie Larson is on the Enterprise Antimicrobial Stewardship Committee  
Dr Haggar is on the Sanford One Chart Patient Education Group  
Dr Haggar is a member to the Physician Compensation committee  
Dr Jones was on the Sanford One Chart Patient Education Group  
Dr VanBeek is on the Metabolic and Bariatric Committee  

**Community**  
Dr Haggar is a youth group leader for her church  
Dr Haggar works with Compassion Childcare  
Dr Ashbaugh does foster care.  
Dr Jones was on the MDA Toast to Life Committee  
Dr Weinacht is on the St Vincent de Paul Society  
Dr B Bauer is a Boy Scout Leader and Committee Chair  
Dr Ashbaugh is on the Board of Ambassadors for the American Cancer Society  
Dr Schimelpfenig is a volunteer in the Church Nursery  

**Professional**  
Dr VanBeek is past Chief of Staff on the Medical Executive Committee at Lifescape  
Dr Zylstra is Chair of Infection Control committee at Lifescape on the Medical Executive Committee.  
Drs Haggar, Whittington, Jones, Larson, Reece, Mailloux, and Zylstra have done multiple interviews for Argus Leader, Keloland and KDLT.  
Dr Schimelpfenig is the SD AAP Chapter VP  

**Other**  
Dr L Bauer is the SD AAP Breastfeeding Coordinator
**Genetics**

**Dr. Laura Davis-Keppen, Division Chief**

**Division Members**
Laura Davis Keppen MD, Isum Ward, MD  
Pediatric genetic counselors Lisa Ohden, Katie Burns

**Teaching**

**Medical Students**

Pillar 2- Dr. Davis-Keppen has 1 pillar 2 student every 2 weeks.

**Mentoring**

Dr. Davis Keppen mentors students through the Women in Medicine Mentor/Mentee program

**Healthcare Profession Students**

We have LEND students in the Down syndrome clinic and Fetal Alcohol Spectrum Disorders clinic. Dr. Davis-Keppen, Dr. Isum Ward, Lisa Ohden, and Katie Burns are all faculty members with the Augustana-Sanford Genetic Counseling Graduate School Program. We serve as advisory board members of the master's degree program for genetic counseling. We have 10 first year and 5 second year genetic counseling masters level students who have pediatric genetics rotations throughout the year.

Sarah Gould, genetic counseling student  
Sam McCallister, genetic counseling student  
Gillian Halter, genetic counseling student  
Malia Triebold, genetic counseling student  
Sydney Strait, genetic counseling student

**Lectures**

11-1-18: “Disorders of Sex Development” genetic counseling students  
11-27-18 Genetic Evaluation of hearing Loss’  
5-7-19 Interesting Genetic Patients

**Residents**

Pediatric residents and transitional residents regularly take the genetics elective.

**Scholarly Activity**

**Publications**


**Grants**

Submitted  
Thrasher Research Fund Early Career Award
Presentations
Oral
Davis-Keppen MD
5-14-19 “When what we’re doing doesn’t seem to help”-Schwartz Center Rounds panel

Local
Dr. Ward
Sanford Imagenetics Genomic Medicine Symposium
Presentation: “The Emerging Role of Chromosomal Copy Number Variants I Clinical Psychiatry”

Regional
T. Denny Sanford Pediatric Symposium
Presentation: “The Role of Genomics in Mental Health Treatment”

Clinical Service
Innovative clinical services
Down syndrome, Fetal Alcohol Spectrum Disorders Clinic, Cleft Lip and Palate multidisciplinary clinics
Skeletal dysplasia clinic
Psychiatric genetics clinic

Volunteer Service
Medical School
Laura Davis-Keppen MD:
Faculty Council 2018-present
Promotion and Tenure Committee 2018-present

Hospital/Clinic
Dr. Davis Keppen: Sanford Children’s Genomic Medicine Consortium, 2015-present

Community
Dr. Davis-Keppen: Newborn Screening consultant for the South Dakota Department of Health.
Advisory Board Committee member, SD HRSA grant Reducing Loss to Follow-up after Failure to Pass Newborn Hearing Screening, 2015-present
Laura Davis-Keppen MD: Advisory board member for newly developed Masters Degree program for Genetic Counseling, Augustana University and Sanford Health

Professional
Augustana/Sanford Genetic Counseling Program
Dr. Davis-Keppen: South Dakota American Academy of Pediatrics EHDI Champion (Early Hearing Detection and Intervention)
**Hematology/Oncology**

**Dr. George Maher, Division Chief**

**Division Members**

Kaelyn Wagner MD; Samuel Milonovich MD; Daniel Callaway MD; Ashlee Blumhoff PNP

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**Teaching**

**Medical Students**

Sarah Free
Erik Burnison
Ryan Garaets
Breann Bowar
Emily Wynja
Tyler Sternhagen
Hannah Schumacher
Caleb Heiberger
Elliot Blue
Emelia Stille
Julia Blue
Anton Boggy
Dan Schmidtman
Benji Waletzko
Shauneil Schwartz
Elise Blaseg
Kelsey Westad
Tony Restaino

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**Undergraduate Students**

Parker Heger

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**Residents**

Joseph Presson, DO
Caleb Hentges, DO
Bryan Blacker, MD
Aimee Koenig, MD
Molly Linn, DO
Sarah Jackson, DO
Michael Turner, DO
Shawna Young, MD
Valerie Norris, MD

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**Scholarly Activity**

**Publications**


Callaway D “Aggressive Langerhans cell histiocytosis following T-cell acute lymphoblastic leukemia” submitted.

Callaway D “Physical therapy in pediatric and young adult patients with sickle cell disease: assessing potential benefits and barriers” submitted.

**Grants**

**Awarded**


Milanovich, Project Leader. NIH Center of Biomedical Research Excellence (CoBRE), Renewal. “Exploring the origins of childhood leukemia: investigating transcriptional networks in hematopoiesis and acute leukemia. 9/1/16-6/30/19.

Great Lakes Hemophilia Foundation.

**Submitted**


**Presentations**

**Local**

“Hemoglobinopathies” Samuel Milanovich MD, Augustana University, November 27, 2018.

**Regional**


“Diagnosis and Management of Acute Leukemia, Past, Present and Future” Samuel Milanovich MD, Sanford Health System referral laboratories CME, Sioux Falls, SD, February 26, 2019.


**Posters**


**Volunteer Service**

**Medical School**

Maher

Department of Pediatrics Vice- Chair

Grand Rounds Committee

Residency Committee

Promotions and Tenure Committee

Sanford-Mayo Symposium Committee
Black Hills Pediatric Symposium Committee  
Mentor to Ashley Sandeen DO, junior faculty.  
Wagner  
Associate Program Director, Pediatrics Residency.  
Residency Committee.  
Milanovich  
Mentor to Baiba Steinbreker MD, junior faculty.  
Mentor to Dan Steventon PT, project to develop an assessment tool for neuropathy in cancer patients.  
Mentor to Lucas Simpson, Augustana University research internship.  

Hospital/ Clinic  
Maher  
Medical Director, Regional Hemophilia Center.  
Milanovich  
Physicians Care Committee  
Research Institutional Biosafety Committee  
Blood Product Utilization Committee  
Sanford Regenerative Medicine Initiative, steering committee  
Cancer Genomics Steering Committee  
Callaway  
Physicians Care Committee  
Blood Product Utilization Committee  

Community  
Maher  
Sanford IRB #3, voting member.  

Professional  
Maher  
South Dakota State Medical Association, member.  
Reviewer, *Pediatrics in Review.*  
Wagner  
Children’s Oncology Camping Association, International Board Member.  
Member: Gold Ribbon Committee.  
Milanovich  
Molecular Tumor Board, TAPUR Trial, American Society of Clinical Oncology.  
Children's Genomic Medicine Consortium  
Callaway  
Sickle Treatment Outcomes Research in the Midwest (STORM), Principal Investigator for the Dakotas
Hospital Medicine
Dr. Carl Galloway, Division Chief
Division Members
Vishnu Kanala, MD, FAAP
Julie Mayo, DO, FAAP
Jessica Olcott, MD, FAAP
Elizabeth Peck, MD, FAAP
Jennifer Reed, MD, FAAP
Daniel Reynolds, DO, FAAP

Teaching
Medical Students and Residents
The pediatric hospital medicine division is the primary teaching service within the pediatric residency program, and is the only service in the department with 24-7 resident coverage. First year residents complete four 4-week blocks on our service, and PGY-2 and PGY-3 residents have two blocks each year, including both daytime and nighttime care. On our service, the residents have the opportunity to function as the primary patient care physician, with increasing autonomy as they progress through their training. In addition, family medicine residents complete one block with the hospitalists during their PGY-1 year, with the opportunity to return for elective rotations. Medical students in Pillar 2 receive two separate weeks of inpatient pediatrics during their mini-block experience, as part of the Longitudinal Integrated Curriculum. During this time, they receive direct teaching and supervision from hospitalists and residents, providing the pediatric residents the opportunity to serve as teachers. Pillar 3 students also have the opportunity to complete a 2- or 4-week rotation as a sub-intern, and we have had many of these students on our team. As a teaching service, all of our clinical care involves education with students and residents. Hospitalists engage in teaching in a variety of modalities, including bedside teaching rounds and staffing, informal didactics on rounds and in a classroom setting, morning reports, and occasional noon conference lectures. We also regularly lead mock code scenarios with residents and students in the USD Simulation Center, to improve resident performance in difficult clinical cases.

Lectures
Fluids and Electrolytes (CG)
Handoffs and Communication (CG)

Mentoring
Assigned mentors, Sanford Children’s Pediatric Residency Program
Aimee Koenig, MD, PGY-2 (JR)
Dr. Julie Mayo was selected for the Outstanding Mentor Award, given by the Department of Pediatrics, USD SSOM and Sanford Children’s Specialty Clinic

Scholarly Activity
Publications

Presentations
Oral
Local
“Culture of Comfort.” USD SSOM Pediatric Grand Rounds, August 2, 2018 (JR)
“Add a Pinch of Salt? Hypotonic vs Isotonic Maintenance Fluids.” USD SSOM Pediatric Grand Rounds, September 6, 2018. (CG)
Posters
National
Trying to thrive with your guts in the air. Pediatric Hospital Medicine national meeting, Seattle, WA, July 27, 2019. Caleb Hentges, PGY-2, Jennifer Reed.

Other

Clinical Service
New Clinics/Programs/Outreach
Drs. Kanala and Reynolds frequently assist with pediatric coverage in Aberdeen and Mitchell.

Volunteer Service
Medical School
Admissions Committee, USD SSOM (JR)
Grand Rounds Committee (CG)
Residency Committee (all)
Program Evaluation Committee, Pediatric Residency Program (JR)
Clinical Competence Committee, Pediatric Residency Program (JR)
Inpatient rotation medical student clerkship director (including student skills lab, completing evaluations, rotation coordination) (JO)
Pediatric Residency Inpatient Rotation Director (JR, DR)
Mock Code leader (JR, EP, CG)
Pediatric Department Mentoring Program mentors (CG, JM, JR)

Hospital/Clinic
Executive Committee (JR)
Pediatric Care Monitoring Committee (CG, JM, DR)
Antimicrobial Stewardship Committee (DR)
Pediatric Floor Committee (all, Chair- CG)
Sanford Children’s Enterprise Council (CG)
Clinical Practice Committee (CG)
PARS (Patient Advocacy Reporting System) Team Member (JM)
Pharmacy and Therapeutics Committee (CG)
Adult Care Monitoring Committee (CG)
Sanford Leading the Way (CG)

Community
United Way Community Impact Team (JR)
Pediatric Advanced Life Support instructor (JR, EP)
Volunteer Scout Leader (DR)
Coach for Let Me Run and Girls On The Run (programs through EmBe and Sioux Falls School District) (EP)
Make A Wish (EP)

Professional
American Academy of Pediatrics (all)
Society of Hospital Medicine (CG, JO, JR)
Appointment as Fellow in Hospital Medicine (CG)
South Dakota State Medical Association (all)
Pediatrics In Review Editorial Board Fellow (JR)
Pediatrics Review and Education Program (PREP) Self-Assessment Editorial Board member (JR)
Other
Performance Improvement projects involving all hospitalists:
Text Paging: to improve communication between nurses and physicians using a new paging system. Goal is to improve nursing satisfaction with response times while allowing residents to better prioritize tasks and minimize trips into and out of a patient’s room while trying to provide patient cares. (Team leader: JO)
Rounding Checklist: Goal is to improve and enhance the value and safety of patient care by utilizing a rounding checklist as a reliability tool that will aid in adherence to quality initiatives and encourage appropriate use of resources. (Team leader: CG)
Neonatal Fever: to develop an evidence-based algorithm and guidelines for management of neonatal fever. Interdisciplinary project including Emergency Department and Pediatric Infectious Diseases to review and modify current guidelines. (Team leader: VK)
Patient Experience Initiative: Goal is to improve patient and family experience and care of children at Sanford Children’s, including hospital and clinic, through an interdisciplinary approach. (Team leader: CG)
Sepsis Initiative: Goal is to improve recognition and early intervention in patients with sepsis in the emergency department and hospital. (Team leader: CG)
Pediatric Inpatient Pathways for Asthma (PIPA): Multi-site quality improvement project sponsored by the American Academy of Pediatrics (AAP) Value in Inpatient Pediatrics (VIP) network. Goal: to improve the care for pediatric patients hospitalized with asthma. (Team leader: DR)
**Infectious Diseases**
Dr. Fernando Bula Rudas, Division Chief
Division Members
Santiago Lopez, MD; Archana Chatterjee, MD PhD and Fernando J. Bula-Rudas, MD

**Teaching**
Medical Students
Pillar 2
Megan Sommers, Natalie Walter, Michael Wallum, Mona El Gayer, Matthew Lommen

Pillar 3
Luke Lansman, Kate Kondratuk, Tyler Sternhagen, Zachary Weber

Small Groups
Bula
Faculty Advisor Pediatrics interest group.
Faculty Advisor Latino medical student association

Chatterjee and Bula
A Day in the Life of a Pediatrician, Pediatrics Interest Group, Vermillion, SD, August 29, 2019.

Mentoring
Bula
Pillar 2 Coordinator
Josh Hanscom, Charissa Ethreim, Morgan Sorensen, Develyn Vetos, Justin Brown

Chatterjee
Kayla Knutson

Medical Students Research Project
Retrospective project evaluating outcomes of Native American children during lower respiratory tract infection
Students: Zachary Weber (Graduated); Geralyn Palmer, Travis Kooima, Christopher VanHove and Landon Withrow.

Prospective evaluation and case presentation on outcome of invasive pneumococcal disease
Student: Sternhagen, Tyler

Residents
Valerie Norris PGY-3, Richard Vo PGY-3
Electives: Pediatric Infectious Diseases elective

Noon Report:
Bula
HIV infections in children.

Lopez
**Scholarly Activity**

**Presentations**


**Invited Speaker:**

**Bula:**


**Publications**


**Presentations**

**Oral**


Ridgway T, Kemnitz J, **Chatterjee A.** “Providing Meaningful and Relevant Faculty Development While Enhancing Faculty Engagement on Regional Medical Campuses.” Innovation Session, Group on Regional Medical Campuses Spring Meeting, Spokane, WA, April 15-17, 2019.

**Poster abstracts presentation:**

**Chatterjee A,** Ridgway T. “Food for thought: Discussing faculty wellness during a shared meal”, GFA and GWIMS Joint Professional Development Conference, Chicago, IL, July 12, 2019.

**Chatterjee A,** Ridgway T. “Advancing the careers of women faculty at a community-based medical school”, GFA and GWIMS Joint Professional Development Conference, Chicago, IL, July 12, 2019.

**Bula-Rudas F, Chatterjee A.**, et al. Improving appropriate testing for *Clostridium difficile* infection: A diagnostic stewardship quality improvement project at Sanford Children’s hospital. Presented at SHEA spring conference April 2019, Boston MA.


**Grants**

**Submitted**

Seqirus, Comparison of Inactivated Cell based vs Egg based Influenza vaccine and Pilot & Feasibility Grant: Sanford Foundation.

**National**

**Chatterjee** “Exploring Strategies to Increase HPV Vaccination Rates in Adolescents”, Neighborhood Healthcare, Escondido, CA, October 9, 2019


“Help Protect Them During Peak Risk Years: Serogroup B Meningococcal Disease Vaccination in Adolescents and Young Adults”, Riverside, CA, August 8, 2019.

“Prevention of Seasonal Influenza: Making the Case for Cell-Based Vaccines”, American Association of Nurse Practitioners National Conference, Indianapolis, IN, June 20, 2019.

“Be the CEO of Your Own Career”, EVMS Women in Medicine and Science Annual Event, Eastern Virginia Medical School, Norfolk, VA, June 7, 2019.


Local

Chatterjee

“Self Care and Clinician Well Being,” Sanford Medical Center, Sioux Falls, SD, January 28, June 10, September 9, September 24, 2019.

“Patient Centered Team-Based Care,” Sanford Medical Center, Sioux Falls, SD, January 28, February 25, 2019.

“Overview of Sanford Health & Culture,” Sanford Medical Center, Sioux Falls, SD, January 28, March 11, May 13, June 10, June 24, 2019.

“Understanding the Importance of RSV Immunoprophylaxis for Infants and Children at High Risk for Severe RSV Disease.” Sanford Health Clinic 26th & Sycamore Family Medicine, Sioux Falls, SD, September 24, 2019.

“Understanding the Importance of RSV Immunoprophylaxis for Infants and Children at High Risk for Severe RSV Disease.” Avera Medical Group, Sioux Falls, SD, September 4, 2019.

“Understanding the Importance of RSV Immunoprophylaxis for Infants and Children at High Risk for Severe RSV Disease.” Avera McGreevey Clinic, Sioux Falls, SD, September 3, 2019.

“The Importance of RSV Immunoprophylaxis for Infants and Children at High Risk for Severe RSV Disease.” Sioux Falls, SD, March 29, 2019.

“The Importance of RSV Immunoprophylaxis for Infants and Children at High Risk for Severe RSV Disease.” Sioux Falls, SD, March 28, 2019.

Regional

Chatterjee


“Roundtable discussion on Promotion and Tenure,” 2nd Annual Center for Women in Medicine and Science Retreat, Univ. of Minnesota, Minneapolis, MN, September 26, 2019.
“Help Protect Them During Peak Risk Years: Serogroup B Meningococcal Disease Vaccination in Adolescents and Young Adults”, Davenport, IA, June 13, 2019.

“Preventing Infections that lead to Sepsis through Immunization.”, Connecting the Dots: Antibiotics, Immunizations and Sepsis, Great Plain Quality Innovation Network, Norfolk, NE, April 9, 2019.

**Bula**


**Clinical Service**

**New Clinics/Programs/Outreach**

Four vaccine clinical trials.

**Innovative clinical services**

Pediatric travel clinic with immunizations administered at Sanford Children’s Specialty Clinic.

**Volunteer Service**

**Medical School**

**Bula:**

Pediatric Clerkship director, University of South Dakota, Sanford School of Medicine, SD.

**Chatterjee:**

Dept. Chair, Pediatrics
Senior Associate Dean for Faculty Development

**Hospital/Clinic**

**Bula**

Sanford Health Enterprise Antimicrobial Stewardship Committee.
Antimicrobial Stewardship Committee, Sioux Falls Region, SD
Sanford Children’s Hospital, Antimicrobial Stewardship Committee, Sioux Falls, SD
Infection Prevention Committee, Sioux Falls Region, SD
Sanford Children’s Hospital, Infection Prevention Committee, Sioux Falls, SD
Sanford Health Enterprise Immunization Committee
Sanford Health Sioux Falls Region Immunization Committee
Sanford Health Clinical Practice Committee

**Lopez**

Chair of the comprehensive Unit-based Safety program for central line infection reduction. Sanford Health, SD
Antimicrobial Stewardship Committee, Sioux Falls Region, SD
Sanford Children’s Hospital, Antimicrobial Stewardship Committee, Sioux Falls, SD
Infection Prevention Committee, Sioux Falls Region, SD
Sanford Children’s Hospital, Infection Prevention Committee, Sioux Falls, SD

**Chatterjee**


2018-2019 Program Planning Committee, Mayo Clinic T. Denny Sanford Pediatric Symposium – held on March 22 at Rochester, MN.

Community
Bula
Sioux Falls Area Immunization Coalition
Lopez
Sioux Falls Area Immunization Coalition
Chatterjee
Sioux Falls Area Immunization Coalition
Chair, Board of Trustees, Hindu Temple of Siouxland

Professional
Bula:
Committee of Antimicrobial Stewardship of the Pediatric Infectious Diseases Society.
Abstract reviewer
Pediatric Academic Societies. Baltimore, Maryland. 2019

Chatterjee:
Member, External Advisory Board, Center for Women in Medicine and Science (CWIMS), Univ. of Minnesota
Vice Chair, Leadership Development Committee, IDSA.
Invited to serve as and appointed a member on the Vaccines and Related Biological Products Advisory Committee (VRBPAC) of the United States Food and Drug Administration (FDA)
Past Chair, Group on Women in Medicine and Science Steering Committee (GWIMS), AAMC
Member, American Board of Pediatrics’ Subboard of Pediatric Infectious Diseases
Member, Board of Directors, PIDS
Member-at-Large, Board of Directors, Association of Medical School Pediatric Department Chairs (AMSPDC).

Other
Clinical Trials
- D5290C0004: A Phase III randomized, Double-blind, Placebo controlled study to evaluate the safety and efficacy of MEDI8897, a monoclonal antibody with an extended half-life against Respiratory Syncytial virus, in Healthy late preterm and term infants (MELODY). Sponsor: MedImmune. Role: Investigator. Status: Active.
- MK-7625A: A Phase 1, open-label, non-comparative, multicenter clinical study to evaluate the safety, tolerability, and pharmacokinetics of ceftolozane/tazobactam (MK-7625A) in pediatric participants with nosocomial pneumonia. Sponsor: Meck Sharp & Dohme., Merck & Co., Inc. Role: Investigator. Status: Pending.
- KIDCARE (Kawasaki Disease Comparative Effectiveness Trial). Role: Investigator. Status: Active.
Neonatal/Perinatal Medicine
Dr. Suzanne Reuter, Division Chief
Division Members
Stephen Messier MD, Associate Professor of Pediatrics, Medical Director of the NICU, Pediatric Lead Physician
Michelle Baack MD, Associate Professor of Pediatrics, Physician-Scientist
Lauritz Meyer MD, Assistant Professor of Pediatrics, Director of Neonatal Transport
Jessica White MD, Assistant Professor of Pediatrics, Director of NICU for Pediatric Residents
Laurie Hogden MD, Assistant Professor of Pediatrics
Akram Khan MD, Clinical Associate Professor of Pediatrics
Jacquelyn Grev MD, Assistant Professor of Pediatrics
Baiba Steinbrekera MD, Assistant Professor of Pediatrics
Kathryn Anderson MD, Assistant Professor of Pediatrics
Larry Wellman MD, Professor of Pediatrics – Retired from clinical duties
Dennis C. Stevens MD MS, Professor of Pediatrics – Retired from clinical duties
David Munson MD, Professor of Pediatrics – Retired from clinical duties

Clinical Care
The members of the Section of Neonatal/Perinatal Medicine remain actively involved in the clinical management of 793 neonates admitted to the Boekelheide NICU. This includes the ongoing medical management of neonates in the NICU 24 hours per day, attendance at high-risk deliveries, prenatal consultation for parents of high-risk neonates, telephone consultation for referring physicians and include the services provided by Dr. Messier as the medical director of the Boekelheide NICU and Dr. Meyer's management of the Sanford Sioux Falls Neonatal Transport Program. Neonatologist coverage for the NICU currently involves three rounding attending physicians, seven days per week. The group provided medical management for approximately 173 neonatal transports last year. Eight members of the section (Drs. Munson, Khan, Hogden, Meyer, Messier, White, Grev, and Steinbrekera) staff the weekly NICU Follow-up Clinic for graduates of the NICU. The neonatologists mentor LEND students, nurse practitioner students, and pediatric residents in the clinic.

Sanford Children's Hospital provides ECMO capabilities to pediatric and neonatal patients on-site in the Pediatric Intensive Care Unit. This service became available to neonates as of August 2016. Dr. White has been instrumental in coordinating this practice change and has worked closely with the Pediatric ECMO team with the first patient cannulated August 2017. She serves on the institutional ECMO committee while Dr. Steinbrekera is involved in ECMO specialist teaching.

Academics
As demonstrated by the number of grants funded, publications, and national, regional and local presentations, the members of the section have been extremely productive academically. All members of the section have been actively involved in the Sanford School of Medicine.

All members of the section are active in teaching pediatric residents while on their NICU rotations. Dr. White serves as the liaison to the pediatric residency for the section. The section continues to host morning report for the residents three Wednesdays per month. All section members also teach/supervise family medicine residents completing their 2-week NICU rotation.

Each neonatologist is active in teaching medical students in the NICU. Students in Pillar 1 participate with shadowing experiences whereas interested students in Pillar 3 typically complete a sub internship in the NICU. Dr. Meyer is the liaison to the medical school for the section. Dr. Hogden serves as a medical student Triple Jump faculty (Pillar 2 education) and serves as a medical student faculty advisor.

Dr. Messier founded a “boot camp” in 2013 for teaching the pediatric residents resuscitation and procedural skills, which continues on an annual basis. The boot camp includes Pediatric Residency faculty as instructors and many of the neonatologists participate in teaching stations. The boot camp is held in the Parry Simulation Center.
Whereas all members of the section are certified in the Neonatal Resuscitation Program (NRP), Dr. Hogden, Dr. Messier, Dr. Grev and Dr. White act as instructors for practicing physicians, residents, respiratory therapists, and nurses. Drs. Hogden, Messier, White, Reuter and Dr. Grev also provide simulation training for pediatric mock codes for family medicine and pediatric residents, and Dr. White coordinates this training. In addition, Drs. Hogden and Messier serve as the advisors for the neonatal nurse practitioner skills validation lab.

The neonatologists participate in NICU RN education on a regular basis. Dr. Hogden has spoken regularly at the RN Professional Practice meetings providing education on our NICU outcomes. Dr. Hogden and Dr. Meyer are teaching Level 3 education courses through the Neonatal Orientation and Education Program (NOEP) for the new registered nurses in the unit.

Research
Drs. White and Baack were active sub-investigators for a MedImmune study: A Phase 2b Randomized, Double-blind, Placebo-controlled Study to Evaluate the Safety and Efficacy of MEDI8897, a Monoclonal Antibody with an Extended Half-life Against Respiratory Syncytial Virus, in Healthy Preterm Infants.

Dr. Baack continues in a half-time clinical position in the section and with a half-time appointment to Sanford Research. In addition to leading NRN studies, Dr. Baack’s projects include:

- Lipotoxic Effects of Maternal Diabetes and High Fat Diet on the Developing Heart, PI
- Mitochondrial Dysfunction in the Developmental Origin of Cardiac Disease, PI
- Extracellular Matrix to Optimize Cardiomyogenesis from Mesenchymal Stem Cells for Applications in Cardiovascular Regenerative Medicine, Co-I
- Is the Heterogenic Mitochondrial DNA Genome a Cause of Rejection in Transplanted Organs from Cloned Animals? Co-I
- International Milk Bank Survey, Co-I (PI, Simon Dyall, Bournemouth University, UK)
- High Glucose Results in Changes in Vascular Endothelial Growth Factor Expression in the Developing Brain, Co-I (PI, Susan Cohen, University of Wisconsin-Milwaukee)
- Effects of a High Docosahexaenoic Acid Diet on Inflammation Resolution and Recovery Following Repetitive Dust Exposure in Mice, Sub-I (PI, Tara Nordgren, UC-Davis)
- Maternal Tobacco Smoke Exposure Impairs Placental Function and Induces Sex-Specific Alterations in Fetal Fatty Acids, Sub-I (PI, Lisa Joss-Moore, University of Utah)

Neonatal Research Network
Sanford NICU is a satellite site with the University of Iowa for the Neonatal Research Network (NRN). Several clinical trials have been initiated with enrollment ongoing in the Boekelheide NICU. Sanford Site Principal Investigator: Michelle Baack MD

Multiple members of the section are leads on various NRN studies. The following is a list of projects and Sanford Principal Investigators:

- **Project Title**: Survey of Morbidity & Mortality among High Risk Preterm Infants (GDB). Sanford Principal Investigator: Michelle Baack MD
- **Project Title**: Management of the Patent Ductus Arteriosus in Premature Infants (PDA) Trial, Sanford Principal Investigators: Baiba Steinbrekera MD and Michelle Baack MD
- **Project Title**: Darbepoetin to Improve Red Cell Mass and Neuroprotection in Preterm Infants. Sanford Principal Investigator: Michelle Baack MD
- **Project Title**: Neurodevelopmental Effects of Donor Human Milk vs. Preterm Formula in ELBW Infants. Sanford Principal Investigator: Jessica White MD
- **Project Title**: Milrinone for Congenital Diaphragmatic Hernia. Sanford Principal Investigator: Jessica White MD
- **Project Title**: All Birth Cohort Study. Sanford Principal Investigator: Jessica White MD
- **Project Title**: Follow up Study. Sanford Principal Investigator: Laurie Hogden MD
- **Project Title**: Hydrocortisone for Bronchopulmonary Dysplasia. Sanford Principal Investigator: Larry Meyer MD
- **Project Title**: Premie Hypothermia Study. Sanford Principal Investigator: Akram Khan MD
- **Project Title**: Moderately Preterm Infants with Caffeine at Home for Apnea (MoCHA) Trial (Mo-CHA). Sanford Principal Investigator: Suzanne Reuter MD
- **Project Title**: Management of the Patent Ductus Arteriosus in Premature Infants Trial (PDA Trial). Sanford Principal Investigator: Baiba Steinbrekera MD
- **Project Title**: Budesonide with Surfactant for Bronchopulmonary Dysplasia. Sanford Principal Investigator: Jacquelyn Grev MD

Research and quality improvement are ongoing parts of the section and currently include the following group projects:
- Preventing progression of ROP
- Prevention of newborn hypothermia in VLBW infants; ABP MOC/QI
- Dandle Roo positioning blanket and the effectiveness of phototherapy in the NICU
- Evaluation of early onset sepsis in the chorioamnionitis-exposed infant

**Research Mentoring of High School Students**
Sydney Walgenbach, O’Gorman High School, 2018 PROMISE student, Sanford Research, Sioux Falls, SD. "DOHaD: Lipid Mediated Heart Disease in Offspring of Diabetic and Obese Mothers."
- Mentor: Michelle Baack MD

**Research Mentoring of Undergraduate Students:**
Michelle Carlson, University of Dallas, Irving, TX; Sanford Program for Undergraduate Research (SPUR); “Fetal Sex Regulates Placental Lipid Processing by Novel SETD8 Pathway”
- Mentor: Michelle Baack MD

Andrew Paulson, Augustana University; 2018-2019 Sanford Program for Undergraduate Research (SPUR) and Sanford REU intern; “Evaluation of Human Umbilical Cord Mesenchymal Stem Cell Isolation Methods for Use in Cardiac Regenerative Medicine: Explant vs. Enzymatic Digestion”.
- Mentor: Michelle Baack MD

SDSU undergraduate student, Chad Novak, was involved with the Sanford/SDSU collaborative project “Mapping the Human Microbiome: Gut Virome in the Breast- and Formula-fed Preterm Infants.”
- Mentor: Jessica White MD

**Research Mentoring of Graduate Students:**
Eli J Louwagie, Augustana University SPUR (2014-2017), Baack Lab; USD-SSOM MD/PhD training program, Baack Lab (2018-present). "Mitochondrial Roles in Developmentally Programmed Heart Disease."
- Highlights: First-author publication in Pediatric Research
- Recipient of the Society for Pediatric Research (SPR) Student Research Award in San Diego, April 27, 2015.
- Travel Award and Co-Chaired Session APS Cardiovascular, Renal and Metabolic Diseases: Sex-Specific Implications for Physiology Conference (2018).
- NIH-USDA Young Investigator Travel Award to Aspen/Snowmass Perinatal Biology Symposium (2019).
Submitted an Institutional Predoctoral Dual-Degree National Research Service Award (NRSA) F30 Training Program Award reviewed by the Endocrine, Metabolism, Nutrition and Reproductive Science study section (F06).

Mentor: Michelle Baack MD

Ruth Ellen Anderson, USD-SSOM MD/PhD, Francis Lab (2017-present). “Dynamic Regulation of Vesicular Trafficking by Altered Sterol Homeostasis.”

Dissertation Committee, Career Mentor: Michelle Baack MD

Emily Storm, USD-SSOM MD/PhD, Faustino Lab (2017-present). “Potential Mechanisms of Nup155 in Cardiac Development and Disease.”

Dissertation Committee, Career Mentor: Michelle Baack MD

Mitch Patrick, USD-SSOM MD/PhD, Egland Lab (2016-present). “Role of Sushi Domain Containing 2 (SUSD2) Protein in Human Breast Tumors.”

Dissertation Committee, Career Mentor: Michelle Baack MD

SDSU graduate student, Ziyi Wang and Theresah Amponsah continue to assist with the Sanford/SDSU collaborative project “Mapping the Human Microbiome: Gut Virome in the Breast- and Formula-fed Preterm Infants.”

Mentor: Jessica White MD

Research Mentoring of Fellows


Mentor: Michelle Baack MD

Research Mentoring of Medical Students

Claire Kittock; USD-SSOM MD-PhD student Medical Research Summer Program (MRSP); Baack Lab (2019). “Influence of Prenatal Exposure to Maternal Diabetes on hu-MSC Proliferation and Differentiation”.

Mentor: Michelle Baack MD


Mentor: Baiba Steinbrekera MD and Michelle Baack MD

Jaelin Otta, Natalie Walter, Morgan Sorensen, Mona ElGayar (2019-ongoing) “Dandle Roo Positioning Blanket and the Effectiveness of Phototherapy in the NICU”

Mentor: Baiba Steinbrekera MD

Research Mentoring of Pediatric Residents


Mentor: Michelle Baack MD

Sarah Jackson MD - Research elective and establishing translational project. Single Center, Retrospective Case-Control Study to Determine Probability of Adrenal Insufficiency in Very Low Birth Weight Infants.

Mentor: Jacquelyn Grev MD
Publications


Book chapters

Presentations


Midwest Society for Pediatric Research; Beaumont Children’s Hospital, Royal Oak, MI. October 4, 2018. “Cardiometabolic Consequences after Exposure to Excess Prenatal Fuels.” Eli Louwagie, Tricia Larsen, Michelle Baack. Platform presentation by MD-PhD student, Eli Louwagie.


Entrepreneurship & Patents

Grants
Principal Investigator: David Pearce. Project 3 Leader: Michelle Baack
Role: Project 3 Lead
Agency: NIH/NIGMS, Center of Biomedical Research Excellence (COBRE) - 2P20GM103620-06
$236,229/year 9/01/18-8/31/23 6 calendar months/year
The Center for Pediatric Research aims to understand regulators of cellular pliancy in the developmental origin of health and disease (DOHaD). This Project will determine the role of mitochondria and cellular metabolism in cardiomyocyte fate as a key mediator of heart disease in offspring born to diabetic or obese mothers.

Project: Extracellular Matrix to Optimize Cardiomyogenesis from Mesenchymal Stem Cells for Applications in Cardiovascular Regenerative Medicine.
Co-Investigators: Michelle Baack, Randolph Faustino, Jay Traverse
Agency: Sanford Foundation Research Fund - Internal Grant
$40,000/year 1/08/2018 – 1/07/2018 0.12 calendar months/year
This study will determine the optimal ECM needed to generate cardiac tissue from mesenchymal stem cells (MSC), a critical step towards the development of cellular and regenerative therapies for patients with cardiovascular disease.

Project: Is the Heterogenic Mother Mitochondrial DNA Genome a Cause of Rejection in Transplanted Organs from Cloned Animals?
Co-Investigators: Samuel Jacob, Michelle Baack, Alexei Savinov
Agency: T. Denny Pediatric Collaborative Pilot Program - FP00094879
$25,000 of $75,000/year 09/01/17-08/31/19 0.24 calendar months/year
This study will determine if minor antigens originating from mtDNA can incite immune responses, mitochondrial damage and transplant rejection in a small animal model. Information gained is key to the future success of regenerative tissue transplants and mitochondrial therapies.

**Project:** NICHD Cooperative Multicenter Neonatal Research Network  
Principal Investigator: Edward Bell; Sub-I Michelle Baack (Satellite Site PI)  
Agency: NIH/NICHD, 2UG1HD053109-11, Subaward: W000910508  

$9,119/year  
01/01/17-03/31/20  
0.12 calendar months/year  
The Neonatal Research Network is a National Institute of Health established consortium that conducts multicenter studies with the goal to improve outcomes for high-risk newborns including very low birth weight infants (VLBW) born at <29 weeks gestational age.

**Service**  
In addition to clinical service, the members of the section are very involved in a variety of other forms of service including serving on a wide variety of hospital and medical school committees.

**Dr. Baack:**  
Eunice Kennedy Shriver NICHD Strategic Planning Working Group  
Neonatal Research Network Steering Committee  
Society for Pediatric Research (SPR), Member  
Perinatal Research Society, Associate Member  
SD Medicaid Advisory Committee, Governor-Appointed position  
SD Medicaid P&T Committee, Governor-Appointed position  
Sanford Profile Clinical & Scientific Advisory Board  
Sanford Lorraine Cross Award Scientific Advisory Board  
USD SSOM Alumni Relations Council, Past President  
USD SSOM Pediatrics Residency Committee  
Sanford Investigational Review Board #3, Consulting Member  
Alpha Omega Alpha  
Associate Editor, American Journal of Perinatology  
Biology of Sex Differences, Reviewer  
Journal of Perinatology, Reviewer  
Prostaglandins, Leukotrienes and Essential Fatty Acids (PLEFA), Reviewer  
Educational Video: NICU Breastfeeding Video  
Vimeo: Research Opportunities in the NICU

**Dr. Khan:**  
NICU Picnic Organization Committee  
Sanford Children's Genomic Consortium Project

**Dr. Hogden:**  
Seventh District SDSMA Board Member  
USD SSOM Student Financial Aid Committee  
Sanford Health Neonatal Care Services Committee  
Vermont Oxford Network Team Leader/Services Administrator  
Neonatal representative to the Sanford Pediatrics Genetic Consortium Multi-Site Collaborative  
USD SSOM Medical Student Faculty Advisor  
NICU Patient Experience Committee  
Sanford Children's CDI Physician Champion  
Neonatal Intensive Care Quality Improvement (NIC QIC) Chair

**Dr. Messier:**  
Newborn Services Committee, Chair  
Sanford Health Critical Care Committee
Pediatric Care Monitoring Committee
Sanford Health Anesthesia Monitoring Committee
Sanford Health Perinatal QI Committee
USD SSOM Pediatric Residency Mentoring Committee
USD SSOM Pediatric Residency Clinical Competence Committee
USD SSOM Pediatric Residency Committee

**Dr. Meyer:**
Liaison to the Intermediate Care Nursery
Liaison to Normal Newborn Nursery
Sanford Perinatal QI Committee
OB Floor Committee
Neonatal Care Services Committee
NICU Patient Experience Committee
USD SSOM Alumni Relations Council
Sanford Children’s CDI Physician Champion

**Dr. Munson:**
Vice President of the Board of Directors of Sanford USD Medical Center
Sanford Health Credentials Committee
Sanford Health By-laws committee
USD SSOM Admissions Committee
USD SSOM Department Promotion and Tenure Committee, Chair
Mentor for middle school boys from church
Pro Am International Golf Tournament Security Committee

**Dr. Reuter:**
USD SSOM Faculty Affairs Committee
USD SSOM Pediatric Department Mentor
USD SSOM Pediatric Resident Mentor
USD SSOM Assistant Dean of Medical Student Affairs for Pillar 2 and 3 (clinical years)
USD SSOM Department of Pediatrics Mentoring Committee
USD SSOM Department of Pediatrics Research and Education Committee
Alpha Omega Alpha
AAMC Council on Faculty and Academic Societies – USD SSOM Representative
*SD Medicine* Manuscript Reviewer
The Banquet - community volunteer

**Dr. White:**
USD SSOM Pediatric Residency Committee
USD SSOM Pediatric Wellness Residency Subcommittee
USD SSOM Pediatric Residency Recruitment
Pediatric/Neonatal ECMO Committee (NICU Coordinator)
NICU Infant-Driven Feeding Committee
Mock Code Committee
Fetal Chart Committee
Graduate Medical Education Committee
USD Strategic Planning Task Force

**Dr. Steinbrekera:**
NICU ELBW Infant Committee
Pediatric/Neonatal ECMO Committee (NICU Representative)
Dr. Grev:
Neonatal Intensive Care Quality Improvement (NIC QIC) Committee
Sanford Blood Product Transfusion Committee

**Awards**
**Laurie Hogden MD:** 2019 USD Sanford School of Medicine Department of Pediatrics Master Clinician Award

**New Directions in 2020**
- We, as a section, continue to promote the use of *human milk* throughout the Sanford Enterprise.
- Continued work with NICU staff in enhancing *parent satisfaction* scores for NICU services.
- Refining the *Infant-Driven Feeding Protocol* for the successful achievement of breast and bottle-feeding for premature infants in the NICU.
- Provide ongoing support for the numerous clinical research trials, including those associated with the *Neonatal Research Network*.
- Make a concerted effort to focus on *well-being* and *work-life balance* amongst section members, to include organized time together as a section outside of work.
- Our section continues to utilize *Vermont Oxford Network Data*, under the leadership of *Dr. Hogden*, to drive Quality Improvement. In 2019, our focus is on reducing rates of BPD. Our new multi-disciplinary NIC QIC has initiated a project to implement the use of the *Early-Onset Sepsis* calculator in the care of at-risk infants.
- *Drs. Messier, Meyer* and *Reuter* are active in the Sanford Neonatal Outreach Program to local and regional hospitals with the goal of improving public relations and neonatal education pertaining to resuscitation and stabilization of the sick neonate prior to transport. The program includes outreach visits with neonatal nurses and neonatal nurse practitioners as members of the Sanford Outreach Team.
- In the summer of 2019, our section was thrilled to welcome *Kathryn (Katie) Anderson MD* to our neonatal group. Katie is a 2019 Neonatal-Perinatal Fellowship graduate.
Nephrology
Dr. John Sanders, Division Chief
Division Members
John T. Sanders, M.D.
Justin T. Kastl, M.D.

Teaching
Residents
Electives
Shawna Young, MD—15Oct2018-11Nov2018
Miranda Floen, MD—10Dec2018-13Jan2019

Lectures
Hematuria
Proteinuria
Acute kidney injury
Hypertension
Acid/base

Clinical Service
New Clinics/Programs/Outreach
Bismarck, ND
Watertown, SD
Fargo, ND x 3 each month
Rapid City, SD
Dakota Dunes, SD

Volunteer Service
Sanders—Professionalism committee
SCSC executive committee
“Lead” physician
Neurology
Dr. Bonnie Bunch, Division Chief
Division Members
David Bettis, MD (Locum Tenens)
Charles Broberg, PA
Bonnie Bunch, MD, PhD
Shalome Dsouza, MD
Heather Johnson, APRN-CNP
Sotirios Keros, MD (no longer with the department)
Kellie Sweet, MD (Locum Tenens)

Teaching
Healthcare Profession Students
04/08/2019—Pediatric Neurology Potpourri—FNP Graduate Students—Heather Johnson, APRN-

CME
Lectures
07/18/2019—Grand Rounds—Stroke in the Pediatric Hospital: What Now?—Shalome Dsouza, MD

Presentations
Oral Local
07/18/2019—Grand Rounds—Stroke in the Pediatric Hospital: What Now?—Shalome Dsouza, MD
**Palliative Care**

Dr. Daniel Mark, Division Chief  

Division Members  
Larry Fenton (MD)  
Pam Koepsell (CNS)

**Teaching**

Medical Students  
Pillar 2  
(team) two medical students per year, rotating half-day every two weeks

Small Groups  
(Dan) Interdisciplinary Palliative Care (IPC) Seminar, organized by Life Circle South Dakota; weekly sessions each fall

Healthcare Profession Students  
(Dan) Interdisciplinary Palliative Care (IPC) Seminar also includes nursing students, social work students, chaplain students, and pharmacy students

(team) PA student rotated with PRISM Team for 1 week last year

Resident Electives  
(team) scheduled for 8 resident rotations this academic year

CME Programs  
(Dan) Attended 2019 Annual Assembly of the American Academy of Hospice and Palliative Medicine; also attended 2019 National Pediatric Hypnosis Training Institute fundamentals training seminar

**Scholarly Activity**

Publications  

Presentations

Local  
(Dan) 1/24/19 pediatric grand rounds “Medical Marijuana: What We Think We Know”  
(Larry) 5/15/19 Sanford Integrative Health Symposium: “Hypnosis and Hypnotic Language”  
(Dan) 5/16/19 Sanford Integrative Health Symposium: “Medical Marijuana: What We Think We Know”  
(Larry) 9/17/19 Lecture to Physician Assistant Students; Sanford USD SOM: “Pediatric and Perinatal Palliative Care”

Regional  
(Dan) 7/12 Black Hills Peds Symposium: “You Are Primary Pediatric Palliative Care; Palliative Care Basics Every Clinician Should Know”

**Volunteer Service**

Hospital/Clinic  
(Dan) Biomedical Ethics Committee

Community  
(Dan) leadership in Arise Church ministry team
Professional
(Larry) *LifeScape Board of Directors*

Other
Awards
(Larry) *Sanford Pioneer Award, 2019*
(Larry) *Sanford Star Quilt Award and Ceremony, 9/14/19*
Physical Medicine and Rehabilitation
Dr. Kathryn Sigford, Division Chief
Division Members
Julie Johnson, MD, Charles Broberg, PA-C

Teaching
Medical Students
Sigford: Develyn Vetos, MSIII, 4/17-8/7/19, biweekly
Joshua Hanscom, MSIII, 8/20/18-12/24/18, biweekly

Healthcare Profession Students
Johnson: Leadership Education in Neurodevelopmental and Related Disabilities (LEND) Physician Assistant Discipline Head: August 2018 to present
Johnson: Teaches 4 days a week in the PA program. Also teaches several lectures to PT and OT students in Vermillion.
Broberg: Stephanie Rust – NP student from University of Missouri Health, Sinclair School of Nursing. 2019 spring semester (26.5 hours)
Heidi Barber – NP student from SDSU. 2019 summer semester (48 hours)

Residents
Electives
Sigford: Megan Meis, 3/25/19-4/8/19
Whitney Rolling, 2/18/19-3/2/19
Taryn Raschein, 10/15/18-10/26/18

CME
Lectures
All members attend Pediatric Grand Rounds

Programs
Johnson: Attended the NEXUS annual National Conference in August 2018 and the Clinical Psychiatric Genomics Conference in Scotland in October 2018
Sigford: Attended the AAPM&R Annual Assembly in October, 2018, and EMG and Neurophysiology in Clinical Practice (Mayo) in February, 2019
Broberg: Attended SDAPA fall conference 2018

Scholarly Activity
Presentations
Oral
Local
Johnson: Sanford Pediatric Regional Orthopedic Conference: Kickin it With Kids: “In-toeing, Out-toeing and Crooked Legs” and “Toe Walking”. (October 2018)

National
**Clinical Service**

**New Clinics/Programs/Outreach**
- Johnson: started Interdisciplinary Skeletal Dysplasia with Dr. Ward and Dr. Daniel June 2019
- Sigford: Started outreach clinic in Dakota Dunes, May 2019

**Volunteer Service**

**Medical School**
- Sigford: Admissions committee, Fall-winter 2018-2019

**Hospital/Clinic**
- Sigford:
  1. Trauma Quality and Safety Committee, September 2015-present
     Sanford Health
  2. Infection Control Committee, September 2015-present
     LifeScape
  3. Medical Executive Committee, September 2015-present
     LifeScape

**University**
- Johnson: Leadership Education in Neurodevelopmental and Related Disabilities (LEND) Interim Director: October 2018 –February 2019
- Dr. Johnson: several committees for the PA department, USD IPE, University faculty council

**Community**
- Sigford: Acolyte director, Calvary Episcopal Church

**Other**
- Dr. Johnson has been on a total of 6 service learning trips to Guatemala with students and faculty from USD: PT, PA, OT, Dental hygiene, nursing, undergraduates. Most recent January 2018.
**Pulmonary**

**Dr. James Wallace, Division Chief**

**Division Members**
Chuanpit Moser MD, Amit Jain MD, Deborah Hickman DNP

**Teaching**

**Medical Students**

**Pillar 1**
Develyn Vetos, Alexis Motz

**Pillar 2**
Sara Scott, Brett Rozeboom, Michael Schroeder, Emily Yoon

**Pillar 3**
Emily Wynia, Brett Rozenboom, Sarah Scott, Michael Schroeder, Emily Yoon,

*4th year Medical Students from traditional Medical Schools-Julia Blue*

**Healthcare Profession Students**

**SDSU Pharmacy**
Madiline Walder, Kulie Moret, Lauren Metzger, Jacob Wormer, Taylor Sebert, Molly King

**Clinical Nurse Practitioner**
Marin Schaefer

**Residents**
Pediatric Residents- Whitney Rolling, Miranda Floen, Tara Robare, Molly Linn, Bryan Blacker, Joseph Presson, Kristin Stuive, Sarah Jackson, Richard Vo

**Lectures**
Dr. Moser-Management of pediatric CAP, Management of pediatric asthma, ICS and adrenal suppression and Cystic Fibrosis

**Scholarly Activity**

**Grants**
Awarded
CFF Center Award, CFF Therapeutic Development Center Grant

**Clinical Service**

**New Clinics/Programs/Outreach**
Dr Wallace is in the process of beginning outreach to Fargo, ND

**Volunteer Service**

**Medical School**
Dr Moser-Faculty Research and Education Committee for Sanford School of Medicine, University of South Dakota
Deb Hickman- Pediatric CME Committee

**Hospital/Clinic**
All of the below committees are Sanford Health Committees.
Dr. Moser is on the Pediatric Care Monitoring Committee.
Deb Hickman- Advanced Practice Provider Council Chair
Sanford Health Sioux Falls Region
APP Onboarding & Mentoring Committee
APP Professional Development Committee
Dr. Wallace ended his tenure as Chair of the Physician Executive Council and now serves as Past Chair. He is a member of the Council of Governors, the PEC Executive Committee, the Clinical Practice Committee, the Pharmacy and Therapeutics Committee, and the Credentialing Committee.

**Professional**

Dr. Wallace continues to be a member of the Cystic Fibrosis Foundation’s Center Committee and serves as the representative for South Dakota for the Special Interest Group of the CFF for Newborn Screening for CF.

Deb Hickman  
National Association of Pediatric Nurse Practitioners  
Co-chair Asthma & Allergy Special Interest Group  
July 2015 - present

Advanced Practice Nursing Advisory Committee  
South Dakota Board of Nursing  
February 2014 - present

**Other**

**Current Clinical Research Trials**

Corbus-A Multicenter, Randomized, Double-Blind, Placebo-Controlled Phase 2 Trial to Evaluate Efficacy and Safety of Lenabasum in Cystic Fibrosis.

Vertex-VX16-809-120-A Post-approval Observational Study to Evaluate the Long-term Effectiveness and Safety of Orkambi in US Patients Who Completed Study VX12-809-105 Part A.

Vertex-VX17-659-105-A Phase 3, Open-label Study Evaluating the Long Term Safety and Efficacy of VX-659 Combination Therapy in Subjects With Cystic Fibrosis Who Are Homozygous or Heterozygous for the F508del Mutation.

Vertex-VX15-661-113-A Phase 3, Open Label Study to Evaluate the Pharmacokinetics, Safety, and Tolerability of VX-661 in Combination With Ivacaftor in Subjects 6 Through 11 Years of Age With Cystic Fibrosis, Homozygous or Heterozygous for the F508del CFTR Mutation.

Savara SAV005-04-A Phase III, Randomized, Double-blind, Placebo-controlled Study of AeroVanc for the Treatment of Persistent Methicillin-resistant Staphylococcus Aureus Lung Infection in Cystic Fibrosis Patients.

A Prospective Observational Study in Cystic Fibrosis Patients With Chronic Respiratory Pseudomonas Aeruginosa Infection Treated With TOBI® Podhaler (Tobramycin Inhalation Powder) or Other FDA Approved Inhaled Antipseudomonal Antibacterial Drugs.
Seattle Children’s CF-FC-OB.

The studies in which we were active this past year but that have now closed include:
Vertex-VX17-659-102-A Phase 3, Randomized, Double-blind, Controlled Study Evaluating the Efficacy and Safety of VX-659 Combination Therapy in Subjects With Cystic Fibrosis Who Are Heterozygous for the F508del Mutation and a Minimal Function Mutation (F/MF).

Vertex-VX17-659-103-A Phase 3, Randomized, Double-blind, Controlled Study Evaluating the Efficacy and Safety of VX-659 Combination Therapy in Subjects With Cystic Fibrosis Who Are Homozygous for the F508del Mutation (F/F).

Vertex-VX16-659-101-A Phase 2, Randomized, Double-blind, Controlled Study to Evaluate the Safety and Efficacy of VX-659 Combination Therapy in Subjects Aged 18 Years and Older With Cystic Fibrosis.

Vertex-VX17-661-116-A Phase 3, Open-label, Rollover Study to Evaluate the Safety and Efficacy of Long-term Treatment With Tezacaftor in Combination With Ivacaftor in Subjects With Cystic Fibrosis Aged 6 Years and Older, Homozygous or Heterozygous for the F508del-CFTR Mutation.
Research
Drs. Peter Vitiello and Amy Elliott, Co-Division Chiefs
Division Members
Jyoti Angal, Michelle Baack, Indra Chandrasekar, Arielle Deutsch, Amy Elliott, Randy Faustino, Kevin Francis, Christa Friedrich, Emily Griese, Kurt Griffin, Michael Kareta, Denyelle Baete Kenyon, Lance Lee, Santiago Lopez, Samuel Milanovich, Thayne Munce, Morgan Nelson, David Pearce, Kyle Roux, Alexei Savinov, Arielle Selya, Kameswaran Surenran, Jianning Tao, Peter Vitiello, Jill Weimer, Ping Ye

SANFORD
Michelle Baack MD

Teaching
Mentorship
Medical trainees
- Sarah Jackson MD, pediatric resident; research mentor
- Kyle Sabey MD, pediatric resident; research mentor
Graduate students
- Eli J Louwagie MD-PhD candidate USD-SSOM; dissertation mentor
- Claire Kittock MD-PhD candidate USD SSOM, MRSP research mentor
- Jaelin Otta MD candidate USD SSOM, research mentor
- Ruth Ellen Anderson MD-PhD candidate USD-SSOM; dissertation committee
- Emily Storm MD-PhD candidate USD-SSOM; dissertation committee
- Mitch Patrick MD-PhD candidate USD-SSOM; dissertation committee
Undergraduates
- Michelle Carlson, University of Dallas; SPUR mentor
- Andrew Paulson, Augustana University; SPUR mentor

Scholarly activity
Publications


**Grants**

**Active**

- Center for Pediatric Research: Mitochondria, metabolic plasticity and cell fate in the developmental origin of fuel-mediated cardiomyopathy  
  Principal Investigator: David Pearce  
  Role: Project 3 Lead  
  NIH/NIGMS 2P20GM103620-06  
  $236,229/year, 9/01/18-8/31/23  
  The Center for Pediatric Research aims to understand regulators of cellular pliancy in the developmental origin of health and disease (DOHaD). This Project will determine the role of mitochondria and cellular metabolism in cardiomyocyte fate as a key mediator of heart disease in offspring born to diabetic or obese mothers.

- Extracellular matrix to optimize cardiomyogenesis from mesenchymal stem cells for applications in cardiovascular regenerative medicine.  
  Co-I: Michelle Baack, Randolph Faustino, Jay Traverse  
  Sanford Foundation Research Fund - Internal Grant  
  $40,000/year; 1/08/2018 – present  
  This study will determine the optimal ECM needed to generate cardiac tissue from mesenchymal stem cells (MSC), a critical step towards the development of cellular and regenerative therapies for patients with cardiovascular disease.

- Is the heterogenic mother mitochondrial DNA genome a cause of rejection in transplanted organs from cloned animals?  
  Co-I: Samuel Jacob, Michelle Baack, Alexei Savinov  
  T. Denny Pediatric Collaborative Pilot Program  
  $75,000/year; 09/01/17- present  
  This study will determine if minor antigens originating from mtDNA can incite immune responses, mitochondrial damage and transplant rejection in a small animal model. Information gained is key to the future success of regenerative tissue transplants and mitochondrial therapies.

- NICHD Cooperative Multicenter Neonatal Research Network  
  PI: Edward Bell; Role: Sub-I (Satellite Site PI)  
  NIH/NICHD, 2UG1HD053109-11, Subaward: W000910508  
  $9,119/year; 01/01/17- present  
  The Neonatal Research Network is a National Institute of Health established consortium that conducts multicenter studies with the goal to improve outcomes for high-risk newborns including very low birth weight infants (VLBWs) born at <29 weeks gestational age. Sanford Health is a satellite site to the University of Iowa Center

**Submitted**

- NRSA F30 (1F30HL147455-01) for pre-doctoral award (Louwagie, Baack sponsor). Center for Scientific Review Special Emphasis Panel. Fellowships: Physiology and Pathobiology of Cardiovascular and Respiratory Systems. “Mitochondrial Roles in Developmentally Programmed Heart Disease”.

• NICHD Exploratory/Developmental Research Grant (R21) for PA-18-482. GRANT12883075 entitled “InvitroWOMB - Wharton jelly and cord blood – derived 3D Organized culture for Measuring Biological development” was submitted on 6/14/2019.

Presentations
• Exercise and Nutrition Science Seminar Series at the University of New York at Buffalo, Buffalo, NY. October 25, 2017 “Fats and the Fetus: You are what your mother eats.”
• Midwest Society for Pediatric Research; Beaumont Children’s Hospital, Royal Oak, MI. October 4, 2018. “Cardiometabolic Consequences after exposure to excess prenatal fuels.” Eli Louwagie, Tricia Larsen, Michelle Baack*. Platform presentation
• Center for Pediatric Research 5th Annual Symposium; Sanford Research, Sioux Falls, SD. August 29, 2018. “Bioenergetic consequences in the adult heart following prenatal exposure to maternal diabetes and high fat diet.” Eli Louwagie, Michelle Baack*. Platform presentation.

Clinical service
New clinics/programs/outreach
Clinical protocols (Neonatal Research Network)
• Neonatal Research Network (NRN), Sanford Health Satellite Site Principal Investigator (PI)
• Randomized Controlled Trial of Home Therapy with Caffeine Citrate in Moderately Preterm Infants with Apnea of Prematurity (MoCHA) Trial, NRN Site PI with local Study PI, Suzanne Reuter
• Management of the Patent Ductus Arteriosus in Premature Infants (PDA) Trial, NRN Site PI with local Study PI, Baiba Steinbrekera
• Darbepoetin to Improve Red Cell Mass and Neuroprotection in Preterm Infants, NRN Site/Study PI
• Milrinone in Congenital Diaphragmatic Hernia, NRN Site/Study PI
• A Randomized Trial of Targeted Temperature Management with Whole Body Hypothermia for Moderate & Severe Encephalopathy in Premature Infants 33-35 Weeks Gestational Age, NRN Site PI with local Study Co-I, Akram Khan/Dennis Stevens
• Neurodevelopmental Effects of Donor Human Milk vs. Preterm Formula in ELBW infants (MILK Study), NRN Site PI with local Study PI, Jessica White
• All Birth Cohort (ABC) Study, NRN Site/Study PI
• Survey of Morbidity & Mortality among High Risk Preterm Infants (GDB), NRN Site/Study PI

Clinical protocols (non-Neonatal Research Network)
• Predictors of adrenal insufficiency in VLBW infants, Co-I with resident PI, Sarah Jackson
• Dandle Roo positioning blanket and the effectiveness of phototherapy in the NICU, Sub-I, PI, Baiba Steinbrekera with medical students
• Preventing moderate to severe hypothermia in very low birth weight (VLBW) infants, QI project leader
• International Milk Bank Survey, Sub-I (PI, Simon Dyall, Bournemouth University, UK)

Outreach
• Educational Video: NICU Breastfeeding Video
• Vimeo: Research Opportunities in the NICU

Service
Medical school/University
• USD-SSOM Pediatric Residency Committee

Sanford Research
• Sanford Investigational Review Board #3

Professional Societies
• Society for Pediatric Research (SPR), Member
• Perinatal Research Society, Associate Member
• Midwest Society for Pediatric Research (MWSPR), Member
• South Dakota State Medical Association (SDSMA), Member
• American Diabetes Association, Member
• American Heart Association, Member
• American Academy of Pediatrics (AAP), Member (Section of Neonatal-Perinatal Medicine)
• Seventh District Medical Society (SDSMA), Member

Leadership/advisory groups
• Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) Strategic Planning Working Group
• Sanford Profile Clinical & Scientific Advisory Board
• Sanford Lorraine Cross Award Scientific Advisory Board
• South Dakota Medicaid Advisory Board, Governor appointed position
• South Dakota Medicaid Pharmacy & Therapeutics Committee, Governor appointed position

Peer review
• American Journal of Perinatology, Associate Editor
• Biology of Sex Differences
• Journal of Perinatology
• Prostaglandins, Leukotrienes and Essential Fatty Acids (PLEFA)

Other

Indra Chandrasekar PhD

Teaching

Mentorship

Postgraduates
• Karla Otterpohl PhD; Chandrasekar lab

Graduate students
• Brook Busselman, PhD candidate USD SSOM; dissertation mentor
• Divya Kota, PhD candidate SDSMT; dissertation committee
• Ishara Ratnayake, PhD candidate SDSMT, dissertation committee
• Eric Fogherty, PhD candidate USD SSOM; dissertation committee
• Rhiannon Sears, PhD candidate USD SSOM; dissertation committee
• Rama Patlola, MS candidate USD SSOM; rotation mentor

Undergraduates
• Brendon Lin, Carleton College; Sanford program for undergraduate research
• Kevin Shan, University of Rochester; Sanford program for undergraduate research

Scholarly Activity

Publications

Grants

Presentations
• Keynote speaker, Northern State University, Undergraduate Research Scholarship Day,
G. Hart, Claire Evans, Kevin Shan, Brendon Lin, Kameswaran Surendran, and Indra Chandrasekar. Poster presentation.

Service
Sanford Research
- Institutional Biosafety Committee.

Professional
- American Society for Cell Biology Meeting, abstract reviewer

Arielle Deutsch PhD

Scholarly activity
Publications
4. Deutsch, A.R. Punch-drunk or drunken boxing? The etiology of alcohol-related violence over adolescence and young adulthood. Under Review
5. Deutsch, A. R. Long-term reciprocity between substance use and physical intimate partner violence. Comparing between and within relationships across intimate partner violence types. Under review.

Grants

Presentations
Oral
- Punch-drunk or drunken boxing? A behavior genetic examination of shared etiologies between fighting during drinking episodes, alcohol use, and physical altercations. CBBRE Annual Symposium, University of South Dakota, August 16th, 2019.
Poster

Service
Sanford Research
- Diversity Committee

Professional
Study section
- DaCCoTA Community Engagement Clinical Translational Research (CTR) Scholars Program. Funded under NIGMS grant U54GM128729 “Dakota Cancer Collaborative on Translational Activity.”

Peer review
- PLOS One; British Journal of Psychology; Addictive Behaviors; Substance Abuse; Development and Psychopathology; Journal of Applied Developmental Psychology; Journal of Adolescent Health

Community
Positions
- Great Plains IDEa Community Translational Research: Community Advisory Board
- Oglala Lakota Children’s Justice Center: Advisory Board
- Society for Research on Adolescence: Interdisciplinary Committee Representative

Other
- Community Forum on Interpersonal Partner Violence in Native and non-Native families: “Re-defining and Reclaiming Interpersonal Relationships” Rapid City, SD, February 2019

Randy Faustino PhD

Teaching
Courses
- University of South Dakota/Sanford Research – BIOC192 Topics: Biomedical Research Training and Techniques, Course Director.
- University of South Dakota/Sanford Research – CPHD725 Genetics of Human Disease, Section lecturer for Bioinformatics.
- University of South Dakota/Sanford Research – CPHD763 Developmental Biology of Disease, Section lecturer for Cardiovascular Development and Disease.

Mentorship
Postgraduates
- Claudia Preston PhD; mentor

Graduate students
- Emily Storm, MD-PhD candidate USD SSOM; dissertation mentor
Hannah Wollenzien, PhD candidate USD BBS; dissertation committee
Eli Louwagie, MD-PhD candidate USD SSOM; dissertation committee

Undergraduates
Melanie Gucwa; Sanford program for undergraduate research
Carina Cates; Sanford program for undergraduate research
Ryan Burdine; research intern
Ruby Hawks; research intern

Scholarly activity

Publications

Grants
Sanford Foundation. “Extracellular matrix to optimize cardiomyogenesis from mesenchymal stem cells for applications in cardiovascular regenerative medicine.” Co-Investigators: Michelle Baack, Randolph Faustino, Jay Traverse; 1/08/2018 – 1/07/2018
AHA Transformational Project Award (Submitted January 2019) – “Nucleoporin substrates for arrhythmogenesis”; reviewed, not awarded
AHA Innovative Project Award (Submitted January 2019) – “Epigenomic regulation of cardio-pathogenesis by NUP153”; not reviewed

Presentations
Oral
“Scientific Misconduct and Plagiarism”. Co-presented with Kyle Roux, PhD. Sanford Research, Ethics Series (June 20, 2019) Sioux Falls, South Dakota, USA.
“Networking from the heart: Exploring the landscape of heart disease using molecular maps”. Winona State University (April 5, 2019) Winona, Minnesota, USA.

Poster


2018 Sanford Summer Research Symposium. “Elys is a Y-subcomplex Nucleoporin Variant Associated with Cardiac Disease”. Amrutha Alluri, Claudia C. Preston, Emily C. Storm, Randolph S. Faustino. Sioux Falls, South Dakota, USA.


Service
Sanford Research
- Sanford PROMISE Scholars selection committee
- Eastern South Dakota Research Symposium organizing committee
- Data Club Oversight Committee

Professional
Scientific Memberships
- American Heart Association
- American Society for Cell Biology
Ad hoc peer reviewer
- Clinical Pharmacology and Therapeutics
- Bioinformatics
- Nature Clinical Practice Cardiovascular Medicine
- BMC Genomics
- Scientific Reports
- Cells
- Molecular Biology Reports
- Stem Cells International
- Current Bioinformatics
- International Journal of Molecular Sciences
- Applied Sciences

Kevin Francis PhD

Teaching
Courses
- CPHD 792: Molecular Mechanisms of Disease, Course Director: Lee, Role: Lecturer (3 lectures)

Mentorship
Postgraduates
- Jordan Sheets PhD – Postdoctoral fellow
Graduate students
- Ruthellen Anderson – MD-PhD candidate USD SSOM; dissertation mentor
- Bethany Freel – PhD candidate USD BBS; dissertation mentor
- Eric Sandhurst – PhD candidate; USD Neuroscience and Nanotechnology Network
- Eric Fogarty – PhD candidate USD BBS; dissertation committee
- Johnny Sanyour - PhD candidate USD Biomedical Engineering Program; dissertation committee
- Rachel Laufmann – PhD candidate USD BBS; dissertation committee
- Courtney Kinser – MS student USD Biomedical Engineering Program; thesis committee

Undergraduates
- Dallas Soyland – SPUR Scholar, Augustana University, SD
- Ben Kelvington – SPUR Scholar, Augustana University, SD
- Yesenia Barrera-Millan – SPUR Scholar, Arizona State University, AZ

High school students
- Maycie Schultz – PROMISE Scholar, Harrisburg High School, SD

Scholarly activity

Publications


Grants

Awarded
- 2P20GM103620-06 NIH/NIGMS, 09/01/15 – 08/31/19, Center for Pediatric Research: Regulation of cell fate and function by sterol homeostasis. This project is testing the hypothesis that defects in cholesterol synthesis inhibit normal neurodevelopment at the stem cell level through inhibition of protein-protein interactions and normal synaptic function. Pearce (PI), Francis (Project leader)
- Charlotte and Gwyneth Gray Foundation, 1/1/17 – 11/30/18, Searching for an effective treatment for CLN6-Batten disease. Our laboratory’s role in this multi-disciplinary team will be to screen various small molecules, gene therapy, stem cell and gene editing approaches in both mouse and iPS cell models of CLN6-Batten disease to expedite a clinical trial for patients with this disease. Weimer (PI), Francis (Co-I)
- Smith-Lemli-Opitz/RSH Foundation, 6/1/18 – 5/31/19, Utilizing SLOS patient-derived induced pluripotent stem cells to investigate the therapeutic potential of small molecule modulation of Wnt signaling. The goal of this proposal is to detail the role of Wnt signaling in Smith-Lemli-Opitz syndrome pathology, leading to subsequent projects focused on therapeutic targeting of functional deficits in SLOS. Francis (PI)
- 1F30NS106788-01 NIH/NINDS, 2/20/18 – 2/19/22, Dynamic regulation of vesicular trafficking by altered sterol homeostasis. The long-term objective for this proposal is to delineate the
cellular consequences of sterol substitution on vesicular trafficking and neuronal function.

Anderson (PI), Francis (Mentor)

- USD Neuroscience, Nanotechnology, and Networks (USD-N3) Fellowship, 08/22/19 – 08/21/20, Characterizing astrocyte pathology and resulting phenotypes in cholesterol synthesis disorders. This NSF-funded graduate training program will support this integrative research project defining the effects of cholesterol synthetic mutations on astrocyte biology, while also providing professional skill development. Freel (PI), Francis (Mentor)

Submitted

- 1 R01 NS112629-01, NIH/NINDS, Defining the mechanisms and consequences of astrocyte defects in Smith-Lemli-Opitz syndrome, Francis (PI), to be resubmitted Nov 2019.
- 1 R01 GM135097-01, NIH/NIGMS, Regulation of cellular trafficking by cholesterol homeostasis, Francis (PI), to be resubmitted in Mar 2020.
- 1 R01 NS114339-01, NIH/NINDS, Defining the role of cholesterol homeostasis in mediating signaling within the developing nervous system, Francis (PI), to be resubmitted in Mar 2020.
- Batten Disease Support and Research Association, Defining the potential of ANAVEX®2-73-induced inhibition of astrocytosis for Batten disease patient therapy, Francis (PI), to be reformatted for other funding mechanisms.
- 1 F32 NS112944-01, NIH/NINDS, Defining the role of astrocytosis and microgliosis in the progression of CLN6 disease, Sheets (PI), Francis (Mentor).
- R03, NIH/NINDS, Cholesterol deficiency alters synaptic Rho-GTPase signaling in Smith-Lemli-Opitz syndrome, Litwa (PI), Francis (Co-I), to be submitted as a new application to NIH.
- 1 R01 NS113233-01A1, NIH/NINDS, Reading Frame Correction for the Treatment of CLN3-Batten Disease, Hastings (PI), Francis (Co-I), to be resubmitted
- AHA Postdoctoral Fellowship application 20POST35120227, AHA, Regulation of protein-protein interactions by cholesterol intermediate accumulation, Sanyour (PI), Francis (Mentor), awaiting review results.

Presentations

- Kevin Francis, “Regulation of neural cell fate and function by sterol homeostasis”, Laboratory of Integrated Neurosciences Program, University of Illinois at Chicago, November 2018.
- Kevin Francis, “Defining the impact of cholesterol homeostatic disruption on nervous system development and function using human iPSC models”, Department of Pediatrics, University of Nebraska Medical Center, June 2019.
- Schultz, M et al. “Quantifying the inhibition of clathrin mediated endocytosis by altered sterol homeostasis”, USD Center for Brain and Behavior Research Annual Symposium, August 2018.
- Sheets, J et al. “CLN6 mutations leading to Batten disease cause defects in microgliosis and astrogliosis”, USD Center for Brain and Behavior Research Annual Symposium, August 2018.
• Soyland, D et al., “Investigating the Effects of Cholesterol Biosynthesis Mutations and Downstream Hormonal Activity on Neurodevelopment”, USD CBBRe Annual Symposium, August 2018.


• Sheets, J et al., "Defining the roles of astrocytosis and microgliosis in the progression of CLN6 disease”, Eastern South Dakota Research Symposium, June 2019.


• Coungeris N et al. “Cell fate defects resulting from loss of cholesterol homeostasis: implications for rare pediatric diseases”, Rare Disease Day Annual Symposium, May 2019.


Service

Medical school/University
• USD Basic Biomedical Sciences Graduate Committee
• USD Sanford School of Medicine Research Committee
• Faculty advisor – USD BBS Graduate Student committee
• USD Center for Brain and Behavior Research – peer reviewer

Sanford Research
• Sanford Research Graduate Research committee
• Sanford Research Seminar Series coordinator
• Sanford Program for Undergraduate Research selection committee
• Sanford Research Coordination of Rare Diseases advisory committee

Professional

Study section
• Invited grant reviewer, U54 Rare Disease Clinical Research Network, National Center for Advancing Translational Sciences (NCATS)

Advisory boards
• Advisor board member, IMAGEN: Biomaterials in South Dakota, Research & Development Collaboration Grant from SD Board of Regents
• Smith-Lemli-Opitz/RSH Foundation Medical Advisory Board
Societies
• Member, Society for Neuroscience
• Member, American Heart Association
• Member, International Society for Stem Cell Research

Peer review
• American Journal of Human Genetics
• BMC Molecular Biology
• JCI Insight
• Drug Delivery and Translational Research

Community/outreach
• Community outreach activities through the PROMISE Lab at Sanford Research, including presentations to elementary, middle school, and high school students, as well as research shadow opportunities for high school and college students.

Other
• NIH Loan Repayment Award for Pediatric Research, NCATS
• Invited presenter, Eunice Kennedy Shriver National Institute of Child Health and Human Development Postdoctoral Retreat
• Midwest Society for Pediatric Research Council Award, Ruthellen Anderson
• Travel award, Ruthellen Anderson, Kern Lipid Conference, 2019
• T. Denny Sanford Pediatric Fellowship Travel Award, Jordan Sheets, 16th International Conference on Neuronal Ceroid Lipofuscinoses
• Best Undergraduate Poster Award, Dallas Soyland, USD CBBRe Annual Symposium

Emily Griese PhD

Teaching
Mentorship
Graduate students
• Ethan Villeneuve, PhD candidate USD School Psychology Program; dissertation committee

Undergraduates
• Katie Patrick, Sanford Internship Program

Scholarly activity
Publications

**Grants Awarded**
- Title: *Unplanned Medical Visits among Diabetic Patients*, Sanford Foundation Grant.
  - Role: Primary Investigator
  - Funding Awarded: $40,000
  - Funding dates: 09/2018-09/2019

**Submitted**
- Title: Development of data-driven tools for patient engagement: Supporting primary care interventions to improve the management of multiple chronic conditions.
  - Funding Agency: AHRQ, NIH
  - Role: Co-Investigator

**Presentations**
- Anshutz, D., Russo, J., Griese, E., & Stansbury, C. Predicting Suicidal Ideation from Cyber and Traditional Victimization in Rural Youth. 2019 Convention for the American Psychological Association, Chicago, IL, August 2019.
- Anshutz, D., Russo, J., Griese, E., & Stansbury, C. Predicting Suicidal Ideation from Cyber and Traditional Victimization in Rural Youth. 2019 Pediatric Research & Scholarship Day; Sioux Falls, South Dakota, May 2019.

Clinical service

Innovative clinical services
• Chronic Conditions Care Management Innovation Project: Built strategy and drove implementation alongside clinic leadership of a multi-site (across all four Sanford Regions) study examining differing care management techniques and their impact on patient outcomes throughout the Sanford Enterprise.

Service
Sanford Research
• Population Health Principle Investigator Faculty Search, Committee Member
• Eastern South Dakota Research Symposium, Organizing Committee

Hospital/clinic
• Sanford Artificial Intelligence Executive Oversight Committee
• Sanford Diabetes Prevention Working Group

Professional
• Academy Health, Learning Healthcare Systems Interest Group
• International Rare Disease Committee, Data Council
• EPIC data warehouse, Cosmos Governing Council, Member

Community/outreach
• Media Piece: Population Health – All of Us NIH Project
• Volunteer: Girls on the Run

Kurt Griffin MD PhD

Teaching
Courses
Mentorship
Faculty
- Michelle Baack
- Santiago Valdez

Medical trainees
- Residents rotating through pediatric endocrinology clinic.
- Scientific Meetings / CME

Scholarly activity
Grants
Awarded
- 1 R44 AI142905-01 NIH SBIR “Advancing a Candidate Human Polyclonal Anti-Thymocyte Globulin Product Produced in Transchromosomal Bovine for Transplant Induction/Acute Rejection and T1D Therapy.” Role: Co-investigator. Impact Score: 24
  Phase 1 awarded January 2019. $199,605
  Phase 2 Awarded September 2019. $1,000,000
- “Chimeric T regulatory cells for type 1 diabetes treatment” Sanford Foundation pilot grant. $40,000 Role: Co-PI, 2018

Submitted
- “Chimeric Regulatory T Cells for Type 1 Diabetes Treatment” R01 application for RFA on engineered immune therapies for T1D. Expected review May 2019. Role: Co-investigator.

Active funding for clinical trials
- Type 1 Diabetes Clinical Trials, The Sanford Project. 2013 – Present, $300,000/year.
- Preserving Beta-Cell Function with Tocilizumab in new-onset Type 1 Diabetes. Immune Tolerance Network, 2016 – 2020 $115,074/year
- Pathways to Prevention (TN-01). Diabetes TrialNet, 2007 – Present. $18,000/year.
- Provention Bio PROTECT study $130,000/year
- Inrexon AG019/Teplizumab study: $52,000

Presentations
- “Type 1 Diabetes Research Update” Sanford Diabetes Symposium, Fargo, ND, 11 October 2018.
- “The Sanford Project T-rex Study” Sanford Cell Therapy Symposium, Sioux Falls, SD, 25 April 2019
- “T1D Research Update” Sanford Diabetes Care Conference, Sioux Falls, SD, 23 August 2019.

Clinical service
New clinics/programs/outreach
Clinical protocols
- Innovative clinical services: Innovation centers on developing and implementing clinical research centered on type 1 diabetes. Clinical protocols active during this period:
  - “EXTEND: Preserving Beta-Cell Function with Tocilizumab in New-onset Type 1 Diabetes” NCT02293837. Immune Tolerance Network. Site PI, November 2014 – Present
  - “Type 1 Diabetes Extension Study (TIDES)” NCT02734277. Immune Tolerance Network. Site PI, July 2017 – Present
• “CEP-304” multi-center, randomized, parallel, adaptive, controlled trial in adult and pediatric patients with type 1 diabetes using hybrid closed loop system and control (CSII, MDI and SAP) at home.” NCT02748018. Medtronic, Inc. Site PI.
• “Intrexon AG019-T1D-101: A prospective, multi-center, Phase 1b/2a study to assess the safety and tolerability of different doses of AG019 administered alone or in association with teplizumab in subjects with clinical recent-onset Type 1 Diabetes Mellitus (T1D).” NCT03751007. Intrexon, Inc. Site PI.
• “PROTECT: Provention Bio’s T1D Trial Evaluating C-Peptide with Teplizumab” NCT03875729. Provention Bio, Inc. July 2019 – Present, Site PI.

Protocols in start-up
• TN-25: “Rituximab Followed by Abatabept for Prevention or Reversal of Type 1 Diabetes.” Expected opening Fall 2019.
• Multi Pep T1De: Induction of Antigen-specific Tolerance to Insulin and IA-2 in new-onset type 1 diabetes. Expected opening Q2 2020

Service
Medical school/University
• University of South Dakota, Department of Pediatrics Research and Education Committee
• USD Pediatrics Mentoring Committee

Sanford Research
• Sanford Research IRB-3. April 2014–Present
• Sanford Research Faculty Search Committee: April 2014–Present
• Sanford Research Clinical Liaison Committee: April 2014–2016
• Sanford Research Faculty Leadership and Promotions Committee: August 2016–Present
• Sanford-Mayo pediatric symposium steering committee: 2016–Present
• Sanford Research Pediatric COBRE Internal Advisory Committee: 2016–Present
• Sanford Research Population Health COBRE Internal Advisory Committee: 2016–Present
• Sanford Enterprise Cellular Therapy Steering Committee: 2017–Present

Hospital/clinic
• Sanford Enterprise Diabetes Council

Professional
Societies
• Pediatric Endocrine Society
  o Diabetes Special Interest Group: chair & co-chair
  o Program Committee
• American Academy of Pediatrics
• American Diabetes Association

Study section
• DoD diabetes grants

Advisory boards
• JDRF advisory board: “Facilitating Pediatric Research in T1D”
• National Youth Sports Health and Safety Institute: Leadership Board

Peer review
• Journal of Clinical Endocrinology and Metabolism
• Endocrine-Related Cancer
• Molecular Endocrinology
• PLOSonE
Community/outreach
- City of Sioux Falls Bicycle Committee
- Safe Cycling Instructor (one of 5 in SD certified by the League of American Bicyclists)

*Michael Kareta PhD*

Teaching
Courses
- Lecturer for 4 classes including: Genetics of Human Disease, Molecular Mechanisms of Disease, Ethics, and Career Development

Mentorship
Graduate students
- Mentor for 2 PhD graduate students from USD BBS
- Dissertation committee member for 1 PhD graduate student (outside of those I directly mentor) and 2 MD/PhD students from USD
- I have had 3 PhD graduate students rotate in my lab.

Undergraduates
- Mentor for 1 undergraduate from Augustana University
- Mentor for 2 undergraduate students who joined over the summer.
- We have had 6 undergraduate and high school students shadow in the lab.

Scholarly activity
Publications

Grants
Funded
1R01CA233661-01A1 (Kareta) 07/23/19 - 06/30/24 4.2 calendar months NIH/NCI $250,000

Oncogenic mechanism of SOX2 in Rb-deficient tumors
To determine 2P20GM103620-06 (Pearce) 09/01/16-07/22/19 0.24 calendar months NIH/NIGMS $0

Center for Pediatric Research
Functional Genomics and Bioinformatics Core
The Functional Genomics and Bioinformatics Core facility provides personalized services for investigators from experimental design to assay execution and data analysis.
Role: Core Co-Lead
if upregulation of Sox2 after Rb loss is a crucial oncogenic driver in Rb-loss initiated tumors, and is due in part to the ability of Sox2 to enhance cellular plasticity and interact with progenitor state pathways. Additionally this project will aim to elucidate the oncogenic mechanisms of Sox2 in cancer.
Elucidating the epigenetic landscape of neurofibromatosis and development of therapeutic targets

To identify the essential functions of BET proteins in Schwann cells and determine whether BET inhibition is a therapeutic approach that should be further developed as a treatment modality for NF2.

Role: Collaborator

SOX2 mediates key pathways in small cell lung cancer and in the surrounding microenvironment

To investigate the role of Sox2 in regulating key pathways in SCLC, its involvement in various SCLC subtypes, and investigate how Sox2 mediates tumor microenvironment interactions.

Small molecule inhibition of the Sox2 HMG domain as a potential novel therapeutic

To identify and test small molecule compounds that block Sox2 function to assess their applicability to act as anti-tumor compounds.

Presentations

- Voigt, E., Feiner, J., Kareta, M. Relationship of Sox2 and Rb in Tumor Initiation and Maintenance in Small Cell Lung Cancer. AACR Annual Meeting, 03/2019
- Wollenzien, H., Yousef, M., Voigt, E., Kareta, M. Identification of Sox2 Regulatory Factors in Small Cell Lung Cancer. AACR Annual Meeting, 03/2019

Service

Sanford Research
- Sanford Research Seminar Series Organizer
- Chair, Postdoc Professional Development Committee
- Sanford Research Marketing Committee
- Genetics & Genomics Synergy Sessions (Seminar Series Organizer)
- Sanford Program for Undergraduate Research (SPUR) Selection Committee

Hospital/clinic

- Member of Genomics Tumor Board – provides network analysis of patent genomic data to guide clinicians in treatment options

DenYelle Baete Kenyon PhD

Teaching Mentorship Faculty

- Assisted with the startup of PUBH 701 Biostatistics and PUBH 710 Public Health Epidemiology as new faculty were onboarded.
Graduate students
- Whitney Lucas Molitor (PhD student, Health Sciences, University of South Dakota), Committee member.
- Claire Chuang, (MPH Student, University of South Dakota)
- Sandra Melstad (Graduate student, University of South Dakota), Chair.
- Maggie Schmidt (MPH Student, University of South Dakota)

Undergraduates
- Zachary Van Harris (Undergraduate, South Dakota State University)
- Brandi Krogman (Undergraduate, Sinte Gleska University)
- Andrew Nerland (Undergraduate, University of South Dakota)

Scholarly activity

Publications

Grants

| Native American Healthcare Scholars Program (NAHSP) [PI: Kenyon] Previous PI: Yutrenzka | Office of Minority Health | $1,145,330 20% Y5 | 8/15-9/20 *involvement started 2019 |
| Community centered research experiences and STEM education with Northern Plains Native American students and teachers PI: Kenyon | National Institutes of Health | $1,286,771 Under review | Submitted July 2019 |
Presentations

Service
Medical school/University
- President’s Council on Diversity and Inclusion, Member.
- Public Health Faculty Selection Committee, School of Health Sciences, Chair.
- Diversity and Inclusion Initiative, SSOM Strategic Planning, Co-Chair.
- Diversity Health Affairs, Chair.
- SHS Promotion & Tenure Committee for COHE Unit Program Applicants, Member.
- SHS Chairs Committee, Member.
- SHS Leadership Council, Member.
- SSOM Administrative Council, Member.
- SSOM Administrative Staff, Member.
- SSOM Dean’s Council, Member.

Professional
Study section
- Reviewer for National Institute for Minority Health and Health Disparities review panel for “Interventions for Health Promotion and Disease Prevention in Native American Populations (R01)”.

Peer review
- Reviewer for scholarly journals: American Journal of Public Health, and Evaluation and Program Planning

Community/outreach
- Grantwriting, Hand-in-Hand, SD Voices for Peace
- Leaders Engaged and Determined, Donate a Day for Democracy

Attila Kovács PhD

Teaching
Courses
“Molecular Mechanisms of Disease” course for graduate students: one lecture on Lysosomal storage disorders.
Co-presenter of “Ethics on animal research” seminar in the Ethics seminar series of Sanford Research,

Scholarly activity
Publications
Camille Parker, Jing Zhao, David A. Pearce and Attila D. Kovács. Comparative analysis of the gut microbiota composition in the Cln1\textsuperscript{R151X} and Cln2\textsuperscript{R207X} mouse models of Batten disease and in three wild type mouse strains. Under review at Journal of Microbiology.

**Grants**

**Awarded**
SBIR 1R43NS095376-01A1, Shawn DeFree (PI), 09/01/2016-02/28/2019
“A Novel Treatment for Batten Disease”

The goal of this study was to determine the full extent of biological improvements that can be attained by administration of SNB-4050 (a galactosyl-ceramide analog) in the Cln3\textsuperscript{Δex7/8} mouse model of juvenile Batten disease.

Role: Co-Investigator

**Presentations**

**Posters**
Attila D. Kovács, Camille Parker and David A. Pearce. Altered gut microbiota composition in the Cln1\textsuperscript{R151X} and Cln2\textsuperscript{R207X} nonsense mutant mouse models of infantile and late infantile Batten diseases. Center for Pediatric Research Symposium, Sanford Research, Sioux Falls, SD, August 29, 2018.


Attila D. Kovács, Camille Parker and David A. Pearce. Altered gut microbiota composition in the Cln1\textsuperscript{R151X} and Cln2\textsuperscript{R207X} nonsense mutant mouse models of infantile and late infantile Batten diseases. 16th International Conference on Neuronal Ceroid Lipofuscinoses, London, UK, September 12-15, 2018.


**Service**

Sanford Research
Member & Chair of the Institutional Animal Care and Use Committee (IACUC) at Sanford Research

**Professional**

**Study section**
Batten Disease Support and Research Association (BDSRA)

*Lance Lee PhD*

**Teaching**

**Courses**
- Course Director and Lecturer (6), CPHD763 Developmental Biology of Disease
- Course Director and Lecturer (6), CPHD762 Molecular Mechanisms of Disease
- Course Director, CPHD602 Laboratory Rotations
- Guest Lecturer, Molecular and Cell Biology, Dakota Wesleyan University

**Mentorship**

**Faculty**
- Jing Zhao PhD (USD Department of Pediatrics Mentoring Program)
Graduate students
- Rachel Laufmann (USD BBS PhD)
- Rama Patlola (USD BBS Masters Plan A)
- Haydee Torres (SDSU Biochemistry PhD)

Undergraduates
- Jennifer Kuiken (University of Sioux Falls)
- Carol Dao (St. Mary’s University of Minnesota)

Scholarly activity

Publications

Grants

Awarded
- NSF REU; “REU Site in Cellular and Molecular Biology at Sanford Research” (# 1756912); PI: Lee; 2019-2022
- NIH R25; “Pediatric Biomedical Research Program” (# R25HD097633); PDs: Jill Weimer, Lance Lee; 2019-2024

Submitted
- Sanford Foundation 2019 Pediatrics and Rare Diseases Pilot and Feasibility Grant; “Cellular Mechanisms of Primary Ciliary Dyskinesia”; PI: Lee

Presentations
- Casey McKenzie, Indra Chandrasekar, and Lance Lee. An Ex Vivo Model to Investigate the Molecular Mechanisms Underlying Mammalian Motile Cilia and Primary Ciliary Dyskinesia. 5th Annual Center for Pediatric Research Symposium, Sanford Research. August, 2018. Sioux Falls, SD.
- Casey McKenzie, Jennifer Kuiken, Indra Chandrasekar, and Lance Lee. Analysis of Protein Dynamics in Motile Cilia and Primary Ciliary Dyskinesia. 9th Annual Sanford Rare Disease Symposium, Sanford Research. May, 2019. Sioux Falls, SD.
Carol Dao, Casey McKenzie, and Lance Lee. Analyzing ciliary beat frequency and phenotype in double mutant mice with primary ciliary dyskinesia. 10th Annual Sanford Research Summer Symposium, Sanford Research. August, 2019. Sioux Falls, SD.


Service

Medical school/University

- Promotions Primary Review Committee, Department of Pediatrics
- Research & Scholarship Day Abstract Review Committee, Department of Pediatrics
- Graduate Committee, Division of Basic Biomedical Sciences
- Advisory Board, Health Sciences Major

Sanford Research

- Director of Higher Education
- Director, Sanford Program for Undergraduate Research (SPUR)
- Sanford Program for Undergraduate Research (SPUR) Selection Committee (Chair)
- Graduate Student Recruitment Committee (Chair)
- Student Diversity & Inclusion Committee
- Post-Graduate Professional Development Committee
- 3rd Annual Eastern South Dakota Research Symposium Organizing Committee (Chair)
- Coordinator, Sanford Research Responsible Conduct in Research Seminar Series
- Coordinator, Sanford Research Graduate Student-Invited Seminar Series
- Coordinator, Sanford Research Manuscript Writing Workshop Series
- Graduate Advisory and Research Committee, Department of Chemistry & Biochemistry, SDSU

Professional

Societies

- American Society for Cell Biology
- American Thoracic Society
- International Mammalian Genome Society
- South Dakota Academy of Science
- American Society for Biochemistry and Molecular Biology (through 2018)

Peer review

- Molecular and Cellular Biology
- Andrologia (2)
- Disease Models and Mechanisms
- International Journal of Respiratory and Pulmonary Medicine

Community/outreach

- Presentation in Sanford Research Responsible Conduct in Research Series: “Engaging with the Community”. 2018.
• Presentation in Sanford Research undergraduate career development workshop series: "Navigating the Graduate School Admissions Process". 2019.

Santiago Lopez MD

Teaching

Mentorship

Medical trainees

• Retrospective project evaluating outcomes of Native American children during lower respiratory tract infection
• Prospective evaluation on outcome of invasive pneumococcal disease

Scholarly activity

Publications


Presentations


Clinical service

Innovative clinical services

Clinical protocols

• GSK-3536829A: A Phase IIIB, Observer-Blind, Randomized, Placebo-Controlled, Multi-Center Study to Assess the Safety and Immunogenicity of GSK Meningococcal Group B Vaccine and 13-valent Pneumococcal Vaccine when Administered Concomitantly with Routine Vaccines to Healthy Infants. Sponsor: GlaxoSmithKline Biologicals. Role: Investigator. Status: Active.
• D5290C0004: A Phase III randomized, Double-blind, Placebo controlled study to evaluate the safety and efficacy of MEDI8897, a monoclonal antibody with an extended half-life against Respiratory Syncytial virus, in Healthy late preterm and term infants (MELODY). Sponsor: MedImmune. Role: Investigator. Status: Active.
• MK-7625A: A Phase 1, open-label, non-comparative, multicenter clinical study to evaluate the safety, tolerability, and pharmacokinetics of ceftolozane/tazobactam (MK-7625A) in pediatric participants with nosocomial pneumonia. Sponsor: Meck Sharp & Dohme., Merck & Co., Inc. Role: Investigator. Status: Pending.
• KIDCARE (Kawasaki Disease Comparative Effectiveness Trial). Role: Investigator. Status: Active.
Service
Hospital/clinic
- Chair of the comprehensive Unit-based Safety program for central line infection reduction.

Professional
Societies
- American Academy of Pediatrics
- Pediatric Infectious Diseases Society
- Infectious Diseases Society of America

Sam Milanovich MD

Teaching
Courses
- “Hemoglobinopathies” masters in genetic counseling program, Augustana University, November 27, 2018.

Mentorship
Faculty
- Baiba Steinbrekera MD
- Dan Steventon PT

Medical trainees
- Attending physician assigned to pediatric heme/onc service with pediatric residents.
  - Aimee Koenig, 7/23 – 8/19/18
  - Molly Linn, 1/14/ - 2/11/19
  - Joseph Presson, 2/11/19 – 3/10/19
  - Caleb Hentges, 3/11 – 4/8/19
  - Sarah Jackson, 4/8 – 5/6/19
  - Michael Turner, 5/6 – 6/3/19
  - Shawna Young, 6/3 – 7/1/19
- Attending physician during medical student rotations in pediatric heme/onc.
  - Caleb Heiberger, MS3 continuity, August – December 2018
  - Elliot Blue, MS3 continuity, August – December 2018
  - Emelia Stille, visiting MS4, 9/4 – 9/28/18
  - Julia Blue, visiting MS4, 1/28-2/22/19
  - Emily Wynia, MS4 elective, 2/25-3/8/19
  - Tyler Sternhagen, MS4 elective, 4/29-5/10/19
  - Boggy Anton, MS3 continuity, 4/18-8/8/19
- Attending Physician for clinical shadowing
  - Dan Schmidtman, MS1 elective, 3/21/19
  - Benji Waletzko, MS1 elective, 5/9/19
  - Shauneil Schwartz, MS2 elective, 8/15/19
  - Parker Heger, pre-med under grad, 7/29/19, 8/1/19
  - Elise Blaseg, MS2 elective, 7/25/19
  - Kelsey Westad, MS2 elective, 7/18/19
  - Tony Restaino, MS1 elective, 5/16/19

Undergraduates
- Lucas Simpson, Augustana University
**Scholarly activity**

**Publications**


**Grants**

Funded

- Alex’s Lemonade Stand Foundation / Northwestern Mutual Childhood Cancer Impact Award. Role: PI. “Characterizing transcriptional regulation in hematopoiesis and acute leukemia. 7/1/19-6/30/20
- NIH Center of Biomedical Research Excellence (CoBRE), Renewal, PI: Miskimmins, Role: Project Leader. Exploring the origins of childhood leukemia: investigating transcriptional networks in hematopoiesis and acute leukemia. 9/1/16 – 6/30/19

Submitted


**Presentations**

- L Simpson, S Hudson, S Milanovich. “Describing the role of Arid5b in acute leukemia” Poster presentation, Sanford Summer Research Symposium, Sanford Research, Sioux Falls, SD, August 10, 2018
- L Simpson, S Hudson, J Christopherson, S Milanovich. “Describing the role of Arid5b in acute leukemia” Poster presentation, Sanford Cancer COBRE Symposium, Sanford Research, Sioux Falls, SD, April 4, 2019
- “Diagnosis and Management of Acute Leukemia: Past, Present and Future.” Invited continuing education talk for Sanford Health System referral laboratories, Sioux Falls, SD, February 26, 2019

**Clinical service**

**New clinics/programs/outreach**

**Clinical protocols**

- Principal Investigator: *Cancer Stem Cells in Childhood Leukemia*. Translational research project developing a clinically annotated biorepository of leukemia specimens from children and young adults diagnosed with leukemia.
• Institutional PI, AML16, national collaborative clinical trial consisting of 10 children’s hospitals for children and young adults with newly diagnosed AML.

• Co-PI (PI: Powell) COMPASS protocol: clinical oncology observational study in Sanford adult and pediatric cancer programs to use molecular profiling of tumors to provide “personalized” cancer treatment.

• Institutional PI: **OncoKids: Next-Generation Sequencing of Pediatric Tumor Samples from a Multi-Institutional Consortium of Clinical Cancer Programs.** Multi-institutional study to discover novel genomic alterations and determine the impact of next generation molecular profiling in the treatment of rare and refractory pediatric tumors.

• Co-Investigator: **Chemotherapy Induced Peripheral Neuropathy in Developmentally-Delayed and Younger Children with Cancer.** We aim to described the incidence of chemotherapy-induced peripheral neuropathy in at risk pediatric oncology patients and develop a scoring tool to quantify neuropathy and measure response to intervention.

• Institutional PI: **A Randomized Open-Label, Active Controlled, Safety and Descriptive Efficacy Study in Pediatric Subjects Requiring Anticoagulation for the Treatment of a Venous Thromboembolic Event.** Industry (Pfizer) study investigating safety and efficacy of new generation anticoagulant medication in adolescents, children, infants and neonates.

**Service**

**Medical school/University**

• Faculty Advisor for Pediatric Journal Club

**Sanford Research**

• Sanford Research Institutional Biosafety Committee

• Physician Liaison – Sanford Children’s Health Research COBRE program

**Hospital/clinic**

• Molecular Tumor Board, TAPUR Trial, American Society of Clinical Oncology. Pediatric oncologist on a national tumor board to provide recommendations based on genomic testing in childhood cancer patients enrolled on this study.

• Sanford Physician’s Care Committee Sanford Blood Product Utilization Committee

• Sanford Regenerative Medicine Initiative, steering committee member.

• Sanford Cancer Genomics Steering Committee, this committee will guide Sanford Cancer Center in most effectively incorporating the evolving field of genomics into clinical cancer care.

• Sanford Children’s Genomic Medicine Consortium, research committee member. This is a national consortium of children’s hospitals to advance clinical genomic applications in the field of pediatrics.

**Professional**

• Ad hoc reviewer: *Journal of Adolescent and Young Adult Oncology*

**Community/outreach**

• Research shadowing experience for undergrads and high school students, Sanford Research.
Thayne Munce PhD

Teaching Courses
- “Full Circle: My Path in Exercise Science”, Introduction to Exercise Science course, University of Sioux Falls, Sioux Falls, SD, Spring 2019
- “Goal Line Stand: Examining the Ethical Debate of Brain Injuries in Football”, Sports Ethics course, University of Sioux Falls, Sioux Falls, SD, Spring 2019
- “Goal Line Stand: Confronting Brain Injuries in Football”, Neuroscience course, Augustana University, Sioux Falls, SD, Spring 2019
- “Full Circle: My Path in Exercise Science”, Introduction to Exercise Science course, University of Sioux Falls, Sioux Falls, SD, Fall 2018

Mentorship Undergraduates
- Shane Claffey, University of Minnesota, Summer 2019
- Jacob Toso, Augustana University, Spring 2019
- Rachel Zuidema, Dordt College, Spring 2019
- Kori Fink, University of Sioux Falls, Spring 2019
- Mikaela Fischer, University of South Dakota, Summer 2018
- Jacob Toso, Spring 2019

Scholarly activity Publications

Grants
- Title: “Biomechanical Readiness Following ACL Reconstruction: Clinimetrics of the Movement Performance Assessment”
  Program: Return-to-Play Clinical Research Grant
  Funding Agency: American Orthopedic Society of Sports Medicine (AOSSM)
  Amount: $150,000 (Sub-award: $40,183)
  Role: Co-I
  Status: Submitted
  Decision: Not Funded
- Title: “Head Impact Exposure and Brain Function of Youth Football Players”
  Program: Great Plains IDeA-CTR Pilot Grant Program
  Funding Agency: Great Plains IDeA-CTR (via NIH)
  Amount: $50,000
  Role: PI
  Status: Submitted
Decision: Not Funded

Presentations
- “CTE and Football: What Do We Really Know?”, Northern Sun Intercollegiate Conference (NSIC) Athletic Trainers Summer Meeting, Sioux Falls, SD, June 2019
- “CTE and Football: What Do We Really Know?”, Sanford Sports Medicine Symposium, Sioux Falls, SD, April 2019

Service
Medical school/University
- Member, Steering Committee, Center for Brain and Behavioral Research (CBBRe), University of South Dakota

Hospital/clinic
- Member, Planning Committee, Sanford Sports Medicine Symposium, Sanford Orthopedics and Sports Medicine

Professional Societies
- American College of Sports Medicine (Fellow)
- Northland Chapter of the American College of Sports Medicine

Leadership Positions/Committee Memberships
- Member, Sports Medicine Advisory Committee, South Dakota High School Activities Association (SDHSAA)
- Member, Leadership Board, National Youth Sports Health and Safety Institute (NYSHSI)
- Member, Strategic Health Initiative (SHI) – Youth Sports and Health Committee, American College of Sports Medicine

Peer review
- JAMA Pediatrics
- J Pediatrics
**Community/outreach**

**Student Abstract Reviewer**
- Abstract Reviewer, Northland Chapter of the American College of Sports Medicine, Student Poster Competition

**Task Force Membership**
- Member, Student-Athlete Well Being / Development Task Force, Augustana University

**Community / Educational Presentations**
- “The Science of Sports”, Sanford PROMISE Discovery Day (Spring), Sanford Research, Sioux Falls, SD
- “Science of Sports”, Harrisburg Middle School Fitness Festival, Harrisburg, SD
- “Goal Line Stand: Confronting Brain Injuries in Football”, Sioux Falls Science Pub Talks, Sioux Falls, SD
- “The Science of Sports”, Sanford PROMISE Discovery Day (Fall), Sanford Research, Sioux Falls, SD
- “Could a Brain Injury Turn You into a Zombie?”, Sanford PROMISE Teen Science Café, Sioux Falls, SD

**Media**
- Expert Commentator, Science of Sports In-Game Features (4 segments), March 2-5, 2019, NSIC Basketball Tournament, Midco Sports Network, Sioux Falls, SD
- Featured Studio Guest, Midco Halftime Show, March 3, 2019, NSIC Basketball Tournament, Midco Sports Network, Sioux Falls, SD
- Featured Guest, “Teens and Concussions”, August 22, 2018, All Sides with Ann Fisher, WOSU-NPR, Columbus, OH

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**Scholarly activity**

**Publications**

**Grants**
- 2P20GM103620-06
  NIH/NIGMS
  09/01/16-07/22/19
“Center for Pediatric Research”
Role: PI

Presentations
- 7th International Conference: Rare & Undiagnosed Diseases, India, April 2019. Panelist “Partnerships in Rare Diseases”
- World Stem Cell Summit, Miami, February 2019. Panel “The Big Question: Are MSC’s Here to Stay?”

Service
Medical school/University
- Professor, Department of Pediatrics, Sanford School of Medicine of the University of South Dakota
- Member, Internal Advisory Committee, Developmental Research Program for Medical Students grant, T35, South Dakota, US.

Sanford Research
- Internal Advisory Committee, Transdisciplinary approaches to American Indian and rural population health research COBRE, Sanford Research
- Board Member, Sanford Research Board of Directors

Professional
Consulting
- Gerson Lehrman Group, Inc., New York, NY, USA
- Guidepoint, New York, NY, USA

Scientific Service
- Co-Chair and Reviewer, WORLDSymposium January 2019, Orlando, USA

Study section
- Ad Hoc reviewer, Genome Canada, Canada
- European Union Rare Disease Programs Reviewer, UK
- Ad Hoc reviewer of Research Proposals to Medical Research Council, UK
- Ad Hoc reviewer of Research Proposals to the Wellcome Trust, UK

National Institutional Services
- National Committee Central Region, National Association of IDeA Principal Investigators,
- Scientific Review Board, National Disease Research Interchange

Community/outreach
Boards
- Board Member, Alliance for Cell Therapy
- Scientific Advisory Board, Haley’s Heroes Foundation at The Giving Back Fund
- Chair, Scientific Advisory Board, ForeBatten
- Scientific Advisory Board, Sanford Stem Cell Consortium
- Scientific Advisory Board, CureBatten CLN8 – Sebastian Velona Foundation at The Giving Back Fund
- Chair, Scientific Advisory Board, Fight for Batten Foundation
- Board Member, Dakota Lions Sight and Health
- Member, National Registry for Cell Therapy Steering Committee
- Scientific Advisory Board, Beat Batten’s Foundation
- Scientific Advisory Board, CureBatten CLN6 – Charlotte and Gwyneth Grey Foundation at The Giving Back Fund
- National Committee Member, Central Region, National Association of IDeA Principal Investigators
- Medical Advisory Board Member, Caladrius
- Scientific Advisory Board Member, Xonovo
- Board of Directors, Batten Disease Support and Research Association
- National Disease Research Interchange (NDRI) Researcher Application Feasibility Review Board

Kyle Roux PhD

Teaching Courses
- Molecular Mechanisms of Disease- three lectures in 2019

Mentorship
- Faculty
  - Randy Faustino PhD
  - Jianning Tao PhD
- Postgraduates
  - Charles Halfmann PhD
- Graduate students
  - Rhiannon Sears, PhD candidate USD BBS; dissertation mentor
  - Elle Anderson, MD-PhD candidate USD SSOM; dissertation committee
  - Emily Storm, MD-PhD candidate USD SSOM; dissertation committee
  - Eric Fogarty, PhD candidate USD BBS; dissertation committee
  - Haydee Torres, PhD candidate SDSU Chem/Biochem; dissertation committee

Undergraduates
- Abigail Joseph
- Morgan Moelter
- Elise Ethrheim

Scholarly activity

Publications
4. Selected and evaluated as a Faculty of 1000 article.

**Grants**

*Active*

<table>
<thead>
<tr>
<th>Grant ID</th>
<th>Start Date</th>
<th>End Date</th>
<th>Duration</th>
<th>Agency</th>
<th>Role</th>
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<td>R35GM126949-01 (Roux)</td>
<td>09/01/2018</td>
<td>06/30/2023</td>
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<td>NIH/NIGMS</td>
<td>PI</td>
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<td>Evolution and application of proximity protein labeling</td>
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<td>R01EB014869-02 (Lele)</td>
<td>08/01/2012</td>
<td>06/30/2020</td>
<td>1.2 months</td>
<td>NIH/NIBIB (subaward)</td>
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<td>Substrate Rigidity and Gene Expression: Role of Nuclear Tension</td>
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<td>5P20GM103620-05 (Pearce)</td>
<td>09/01/2018</td>
<td>08/31/2023</td>
<td>1.8 months</td>
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<td>PI</td>
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<tr>
<td>5P20GM103620-05 (Pearce)</td>
<td>09/01/2018</td>
<td>08/31/2023</td>
<td>0.24 months</td>
<td>NIH/NIGMS</td>
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| **Presentations**

*Invited Talks*

- *Tracking Protein Footprints with BioID*. Iowa State University 09-13-18.
Abstracts at meetings

Service
Sanford Research
- As Senior Director of Biomedical Sciences I am responsible for all faculty mentoring and oversight, and budgetary processes. The following are some additional specific services.
- Advisory Committee for the Coordination of Rare Diseases at Sanford (CoRDS), member
- Faculty Search Committees, member
- Graduate Student Admissions Committee
- Shared Resources and Cores Committee
- Internal Advisory Board, Center for Cancer Biology COBRE, member
- Internal Advisory Board, Center for Health Outcomes and Population Research COBRE
- Faculty Leadership and Promotions Committee
- Program Coordinator, Pediatric Research CoBRE

Professional
Editorial boards
- Cells

Peer review

Study section
- Dutch Cancer Society (09/19)
- Israeli Science Foundation (03/2019)
- Netherlands Organisation for Scientific Research (09/2018)

Societies
- Member, American Society for Cell Biology

Alexei Savinov MD PhD

Teaching
Courses
- Two lectures in the “Molecular Mechanisms of Disease” course, USD BBS.

Mentorship
Graduate students
- Rama Patlola, USD BBS Master’s student.

Undergraduates
- Parker Heger, Northern State University, Sanford SPUR student trainee.
Scholarly activity

Publications


Grants

Active

- NIH/NIAID SBIR 1R44AI142905-01 (PI: Wu, Hua) 01/09/2019 – 2/28/2021
  “Advancing a Candidate Human Polyclonal Anti-Thymocyte Globulin Product Produced in Transchromosomal Bovine for Transplant Induction/Acute Rejection and T1D Therapy.” Fast-track Phase I&II mechanism, Co-PI with PI Dr. H. Wu, SAB, $228,203.00 direct to Savinov.
- NEXTCURE 20192115 (PI: Savinov, Alexei) 07/25/2019 – 07/24/2021
  “Selected Aspects of Human B7-H4 (VTCN1) Immunobiology” PI, $232,819 direct to Savinov.

Presentations

- Invited talk at Wayne State college “Protecting insulin-producing pancreatic β cells from autoimmune destruction, February 2019 Wayne, NE;
- Invited talk at NextCure Inc. headquarters” Selected Aspects of Human B7-H4 (VTCN1) Immunobiology” May 2019 College Park, MD.
- 2019 Sanford Summer Research Symposium; Sanford Research, “Validation of Pancreatic Beta Cells Surface Markers for the Future Design of Specific Chimeric Antigen Receptor-Based Therapy of Type 1 Diabetes.” Sioux Falls, SD. August 07, 2019;
- 5th Annual NIDDK HIRN investigators meeting “Chimeric T regulatory Cells for type diabetes treatment.” May 2019, Washington, DC.

Service

Sanford Research

- Flow Cytometry Core, Director;
- Data Club committee, Regular reviewer.

Professional

- American Association of Immunologists, regular member;
- American Diabetes Association, regular member;
- Immunology of Diabetes Society, regular member;
- DOD US Army Medical Research and Materiel Command (USAMRMC) Congressionally Directed Medical Research Programs (CDMRP), study section regular member;
- Diabetologia, *ad hoc* reviewer;
- Diabetes, invited reviewer;
- Journal of Immunology, *ad hoc* reviewer;
- PLOSone, ad hoc reviewer;
- JBC, ad hoc reviewer;
- Molecular Endocrinology, ad hoc reviewer.

**Community/outreach**
Field marshal and soccer assistant coach, multiple local soccer tournaments/events

**Arielle Selya PhD**

**Teaching**
**Mentorship**
**Undergraduates**
- Floe Foxon; Sanford Program for Undergraduate Research (SPUR), Summer 2019

**Scholarly activity**
**Publications**

**Under Review**
- Leonard, R., Preston, C., Selya, A., Faustino, R. *(Submitted)*. A NUP155 protein subdomain is a hotspot enriched in predicted cardiopathogenic variants. *Circulation: Genomic and Precision Medicine*, submitted
- Doerrman, C., Oancea, S.C., Selya, A. *(Submitted)*. The association between hours spent at work and obesity status: Results from NHANES 2015-16. *American Journal of Health Promotion*, submitted
- Bainter, T., Selya, A.S., Oancea, S.C. *(Submitted)*. A key indicator of nicotine dependence is associated with more severe depression, even after accounting for current and lifetime smoking behavior. *BMC Public Health*, submitted

**Grants**
**Active**
- Sanford Research Behavioral Sciences Grant - Internal Grant. “Behavioral interventions to decrease unplanned visits among patients with diabetes.” Role: Co-Principal Investigator.
  Co-Principal Investigator: Emily Griese. $39,310 awarded. 9/1/2019 – 8/31/2019

**Submitted**
- R18 proposal - AHRQ. “Development of data-driven tools for patient engagement: Supporting primary care interventions to improve the management of multiple chronic conditions.”


Presentations

Oral

- Invited talk, Selya, A.S., “Prenatal tobacco exposure and its mechanisms of action on smoking behavior among youth offspring.” Population Health Summit, Sanford Research, Sioux Falls, SD, 10/11/2018
- Presentation, Selya, A. & Johnson, E.L., “Predicting unplanned medical visits among patients with diabetes using machine learning.” Annual South Dakota State University Data Science Symposium, Brookings, SD, 02/2019
- Presentation, Selya, A. S., “Predicting unplanned medical visits among patients with diabetes”. Annual Conference for AcademyHealth, Washington, DC., 06/2019

Poster

- Foxon, F. & Selya, A.S., “Is vaping a gateway to cigarettes? A simulation Approach.” Annual Sanford Program for Undergraduate Research Summer Symposium, Sanford Research, Sioux Falls, SD, 09/08/2019

Service

Sanford Research

- Assistant Scientist, Behavioral Sciences Group
- Director, Data Exchange Core
- Postgraduate Professional Development Committee
- Research Recruitment Committee
- Sanford fit/PROMISE Steering Committee
- SPUR Admissions Committee
- ‘Team Science and Collaboration’, SPUR Ethics Series Seminar, Summer 2019
- ‘PI - Lab Staff Relationships’, Responsible Conduct in Research Training, June 2019

Professional

Peer review

BMC Medical Informatics and Decision Making (1 manuscript)
Drug & Alcohol Dependence (2 manuscripts)
Substance Use & Abuse (2 manuscripts)

Community/outreach

- Media appearances (Keloland Local News, KSOO’s A Better You, South Dakota Public Broadcasting, Headlight Herald)

Kameswaran Surendran PhD

Teaching

Courses

CPHD 792 Lecture in Molecular Mechanisms of Disease Spring-2019
CPHD 792 Developmental Biology of Disease Fall-2018
Mentorship
Postgraduates
Madhusudhana Janga Ph.D., Staff Scientist, Sanford Research

Graduate students
Eric Fogarty B.S, USD Graduate Student Thesis mentor
Ishara Ratnayake M.S, South Dakota School of Mines Graduate Student Thesis Committee

Medical trainees
Monica Bailey B.S, USD Medical Student.

Undergraduates
Samantha Goetting (Junior, Undergraduate Student, SPUR Intern)
Arianna Feller (Sophomore, Undergraduate Student, Sanford Health Internship Program)
Jasmine Johnson (Junior, High School Student, PROMISE Scholar)

Scholarly activity
Publications


Grants
Active
NIH-NIDDK (R01 DK106135) PI: Surendran, Title: Molecular Regulators of Renal Collecting Duct Differentiation and Maintenance. Duration: 07/01/2016-05/31/2020, Role: Principal Investigator, Amount per year: $363,375.
Sanford Health Foundation Pilot Grant, Title: Development of individualized therapies for Alagille Syndrome. Duration: 05/01/2019-04/30/2020, Role: Principal Investigator, Amount per year:$40,000.
NIH/NIGMS (5P20GM103620) PI: Pearce Center for Pediatric Research, Title: Functional Genomics and Bioinformatics Core Duration:09/01/2018-08/31/2023, Role: Co-Core Lead, Amount per year: $294,277.

Presentations


The involvement of Notch mediated lateral inhibition in kidney collecting duct cell type differentiation and maintenance. Kameswaran Surendran, NIH/NIGMS IDeA Central Region Conference, Oklahoma City, OK, June 2019.

Clues from mouse kidney disease studies as to the disease variability in ALGS. Kameswaran Surendran, 8th International Symposium and Scientific Meeting on Alagille Syndrome, Cincinatti, OH, June 2019.
Service
Medical school/University
MD/PhD Admissions Committee Member: 07/2016- 06/2019

Sanford Research
Graduate Student Selection Committee Member
IACUC Scientific Member
Internal Advisory Committee Member for Pediatrics CoBRE
Faculty Leadership and Promotions Committee Member

Professional
Reviewed manuscripts for the following journals:
- American Journal of Physiology-Renal
- Scientific Reports
- Journal of American Society of Nephrology

Professional memberships:
- American Society of Nephrology
- American Academy for the Advancement of Science
- American Physiological Society

Societies
- American Society of Nephrology 2019 Annual Meeting-Development, Stem Cells, and Regenerative Medicine Section

Jianning Tao PhD

Teaching
Courses
2019 spring semester, Course title “Molecular Mechanisms of Disease” (Course Director: Lance Lee, PhD). One lecture on topic: Signaling in Disease II (Wnt signaling) (Course code: USD: CPHD 762)

2018 fall semester, Course title “Developmental Biology of Disease” (Course Director: Lance Lee, PhD). Two lectures in section of Organogenesis: “Bone Development and Disorders”, and in section of Model Systems and Techniques: “Xenopus and Zebrafish”. (Course code: USD: CPHD 792, and SDSU: CHEM 691)

Mentorship
Postdoctoral trainees
- Fang Fang PhD

Medical trainees
- Mckayla Palmer, MD candidate USD SSOM; MSRP mentor

Graduate students
- Haydee Torres, PhD candidate SDSU Chem/Biochem; dissertation mentor
- Anthony Restaino, MD-PhD candidate USD SSOM; CHIRP mentor
- Yangxi Liu, PhD candidate USD Biomed Eng; dissertation committee
- Jacob Miszuk, PhD candidate USD Biomed Eng; dissertation committee

Undergraduate students
- Josephine Conn, Carleton College; SPUR mentor
- Dakota Callahan, University of Sioux Falls; BRIN mentor
- Collin Sorensen, Mount Marty College; BRIN mentor
- Ralph Helmuth, Dakota Wesleyan University; intern

High school students
- Austyn Smithback, Harrisburg HS; PROMISE Scholar mentor
Scholarly activity

Publications


Grants

Active

- NIH (NIGMS) 2P20GM103620-06
  Pearce (Center PI); Tao (Project PI)
  09/01/15–09/31/2020
  CENTER FOR PEDIATRIC RESEARCH
  Project IV Title: Dissecting of developmental signaling pathways in bone development and osteosarcoma, The goal of this program is to support the junior investigators to transition to a competitive grant support such as a R01 grant.

- National Science Foundation
  Sun/Engebretson, PI; Tao, Co-PI
  11/01/2017-10/31/2020
  Award Number: 1725656
  MRI: Acquisition of a Micro-CT system for 3D tissue and materials structure analysis
  This research project involves maintaining a high-resolution, non-destructive 3-dimensional specimen micro-computed tomography (micro-CT) imaging instrument to study the structure of 3-dimensional biomaterials as well as animal and plant tissues.

Submitted

- NIH (NCI) 1 F31 FCA239321-A1
  Torres, PI; Tao, Mentor
  02/01/2020-01/30/2023
  Identifying and Validating Novel Effectors of Oncogenic Notch1 in Cancer Cells

- NIH (NCI) 1R01CA241766-01
  Tao, PI
  7/1/2019-6/30/2024
  Mechanisms of Notch Signaling in Osteosarcoma

Completed

- NIH (NCI) P30 CA042014
  Beckerle (Center PI); Tao (Project PI)
  05/01/2018-04/30/2019
  Identifying driver-mutation-interacting proteins in treatment of AYA cancers
  This is a GMaP Region 6 Research Scholar Pilot Project. We will generate preliminary data to study Notch1-ICD interacting proteins in cancer cells.

Presentations

- Callahan, D., Torres, H., VanCleave, A., Tao, J. The effects of a pan-HDAC inhibitor, SAHA, on a novel murine osteosarcoma cell line. 2019 Sanford Undergraduate Summer Research Symposium, August 9, 2019, Sioux Falls, SD

- Callahan, D., Torres, H., VanCleave, A., Tao, J. The effects of a pan-HDAC inhibitor, SAHA,
on a novel murine osteosarcoma cell line. The South Dakota EPSCoR Undergraduate Symposium, July 30, 2019, Sioux Falls, SD

- Palmer, M., Tao, J. Dual Targeting Notch-Regulated Histone Deacetylase and Demethylase in a Cellular Model of Human Osteosarcoma. The 2019 Annual Medical Student Research Forum Conference of USD, July 19, 2019, Vermillion, SD


- VanCleave, Palmer, M., Fang, F., Torres, H., Alan R., Leiferman P., and Tao, J. Defining the properties of the OS-33 osteosarcoma cell line and the effects of mTORC1 inhibition by rapamycin treatment. The 6th annual Research and Scholarship Day at USD, May 16, 2019, Sioux Falls, SD.


- VanCleave, Palmer, M., Fang, F., Torres, H., Alan R., Leiferman P., and Tao, J. Defining the properties of the OS-33 osteosarcoma cell line and the effects of mTORC1 inhibition by rapamycin treatment. The 6th annual Research and Scholarship Day at USD, May 16, 2019, Sioux Falls, SD.


- Palmer, M., Tao, J. Defining the Properties of the OS-33 Osteosarcoma Cell Line and Effects of mTORC1 Inhibition by Rapamycin, 2019 Annual IDEAFET of University of South Dakota, April 3, Vermillion, SD


Service
Medical school/University
USD Pediatrics Department Grand Rounds Reviewer Panel
USD Sanford School of Medicine SSOM faculty grants

Sanford Research
IBC committee
Diversity of Graduate Student education committee (chair)
Faculty Search Committee
Ethics: Peer review. Sanford Research ethics seminar series
Professional
Reviewed manuscripts for the following journals:
Nature Cell Biology
Nature Communications Biology
BONE
Cellular Physiology and Biochemistry
Medical Sciences
Cancer Cell International
BMC Cancer
Cancers
Molecular Cancer Therapeutics

Professional memberships:
- Member, American Association for Cancer Research (AACR) (2017- present)
- Member, American Society for Bone and Mineral Research (ASBMR) (2008- present)
- Member, Society for Developmental Biology (SDB) (2001- present)
- Member, South Dakota Academy of Science (2018- present)

Study section
Research Grant Reviewer Panel for the Florida Department of Health’s (FL DOH) Biomedical Research Programs and Oak Ridge Associated Universities (ORAU) (One reviewed at 05/08/2018; One reviewed by 05/09/2019)

Community/outreach
Volunteer
Sanford PROMISE Research Shadowing Program
(1) Jordan Engbrecht (From Canistota High School), January 21, 2019
(2) David Rabaey (From Marchall Senior High School), February 28, 2019
(3) Elizabeth West (From Washington High School), December 1, 2018
(4) Paige Wells (from Central Methodist University), November 15, 2018

Media
- News tab about a PROMISE Scholar Austyn Smithback from Tao lab (Reporter: Sydney Altenburg). A SUMMER OF SCIENCE: HHS STUDENT INTERNS AT SANFORD LAB
  https://www.harrisburgdistrict41-2.org/article/136050?org=high-school

Other
- Haydee Torres, PhD student trainee from Tao lab, was awarded from a GMaP Region 6 Travel Award to attend GMaP Region 3 & 6 Technical Training Summit
- Ashley VanCleave, a research specialist from Tao lab, was awarded from a GMaP Region 6 Travel Award to attend GMaP Region 3 & 6 Technical Training Summit
- Haydee Torres, PhD student trainee from Tao lab, was awarded a scholarship to participate in the Applied Bioinformatics Course at Mount Desert Island Biological Laboratory
Teaching
Courses
- CPHD792 Molecular Mechanisms of Disease, USD SSOM; lecturer “Signaling in disease: redox signaling" & "Mitochondrial disorders"; Course Director: Lance Lee PhD
- CPHD792 Molecular Mechanisms of Disease, USD SSOM; lecturer “Organogenesis: lung development & disorders” (2 lectures); Course Director: Lance Lee PhD
- IPMM/CIP922 Redox Biology in Human Disease, University of Nebraska; guest lecturer “ROS in lung development and BPD”; Course Director: Matthew Zimmerman PhD

Mentorship
Faculty
- Michelle Baack MD
Postdoctoral fellow
- Bethany Mordhorst PhD
Graduate students
- Jared Ailts PhD candidate, USD SSOM; dissertation mentor
- Rachel Lauermann PhD candidate, USD SSOM; dissertation mentor
- Ruthellen Anderson MD-PhD candidate, USD SSOM; dissertation committee
- Emily Storm MD-PhD candidate, USD SSOM; dissertation committee
- Eli Louwagie MD-PhD candidate, USD SSOM; dissertation committee
- Rhiannon Sears PhD candidate, USD SSOM; dissertation committee
- Bethany Freel PhD candidate, USD SSOM; dissertation committee
- Jordan Hoops PhD candidate SDSMT; dissertation committee

Undergraduates
- Kate Bruening, Texas A&M University; SPUR mentor
- Joseph Larson, Augustana University; research intern

High School students
- Brennan Hurd; PROMISE Scholar mentor

Scholarly Activity
Publications
Accepted
- Submitted/pending


Grants
Awarded
- NIH/NIGMS P20GM103620
  Pearce (PI)
  09/01/2018–08/31/2023
  Center for Pediatric Research: The Biochemistry Core
  Establish and operate the Biochemistry Core to support projects associated with the Center for Pediatric Research by providing consultation and technical support for protein-protein interaction screening, multi-analyte detection, and lipid profiling.
  Role: Core Lead
- NIH/NHLBI R01HL135112
  Vitiello (PI)
  08/10/2017–06/30/2022
  Hyperoxic modulation of thioredoxin signaling
  Investigate how thioredoxins function as molecular sensors of altered atmospheric oxygen tension in lung epithelium to facilitate redox signaling during parturition and perinatal hyperoxic injury.
  Completed

- The Finish Line Fund
  Vitiello (PI)
  02/01/2018–01/31/2019
  Redox signaling in Friedreich’s Ataxia
  Test if mitochondrial thiol peroxidases act as redox-sensitive regulators of iron-sulfur clusters and oxidative pathologies in Friedreich’s Ataxia.
- NSF/EPSCoR 1355423
  Ustad (PI)
  08/01/2014–07/31/2019
  The 2020 vision: building research, education, and innovation partnerships for South Dakota
  Establish the Biochemical Spatiotemporal NeTwork Resource (BioSNTR), a transdisciplinary, multi-institutional infrastructure for systems bioscience research and education in South Dakota.
  Role: Graduate Faculty

Submitted
- NIH R03
  Vitiello & Rezvani (PI)
  UBXN2A Suppresses Colon Cancer Invasion and Migration via Mitochondria-Dependent Pathway
  Investigate a functional relationship between UBXN2A and the mitochondrial protein quality control and how this crosstalk can affect migration and invasion in colon cancer cells.
  Decision: reviewed on Oct 23 2019
- Muscular Dystrophy Association
  Vitiello (PI)
  Redox signaling in Friedreich’s Ataxia
  Investigate how Friedreich’s Ataxia affects mitochondrial antioxidants and if impaired antioxidant function promotes onset of neuromuscular pathologies.
  Decision: 22nd percentile; resubmission is planned
- NIH R01
  Li (PI)
Aberrant lipid metabolism in aged skeletal muscle: the role of UCHL1
Determine if upregulation of UCHL1 in aged muscle leads to increased lipid deposition and insulin resistance by increased fatty acid uptake and inhibition of fatty acid oxidation.
Decision: not funded

- National Ataxia Foundation
  Vitiello (PI)
  Redox signaling in Friedreich’s Ataxia
  Identify how mitochondrial proteins are modified by oxidative metabolites in cells isolated from patients with Friedreich’s Ataxia.
  Decision: not funded
- Friedreich’s Ataxia Research Association
  Vitiello (PI)
  Mitochondrial redox signaling in Friedreich’s Ataxia
  The premise of this project is to test if reduced frataxin expression in Friedreich’s Ataxia impairs Prdx3 activity and/or mitochondrial redox signaling.
  Decision: not funded

Presentations
Oral
Augsburg University, Department of Chemistry (Host: Vivian Feng PhD) “Redox signaling in lung development & disease”
Sanford Research, Great Plains Rare Disease Symposium “Mitochondrial redox signaling in Friedreich’s Ataxia”
PANAM: Pan-American Congress of Physiological Sciences “Redox signaling and physiology in the neonatal lung”
South Dakota State University, Life Science Seminar Series (Host: Natalie Thiex PhD) “Writing the redox code: thioredoxin signaling in development & disease”
St. Cloud State University, Department of Biology (Host: Tony Her MD) “Redox signaling in development, health & disease”
Nationwide Children’s Hospital, Center for Perinatal Research (Host: Lynnette Rogers PhD) “Writing the redox code: thioredoxin signaling in development & disease”
University of Rochester Medical Center, Division of Environmental Medicine (Host: Michael O’Reilly PhD) “Writing the redox code: thioredoxin signaling in development & disease”

Posters
Service
Medical School/University
Division Chief of Research, Department of Pediatrics
T. Denny Sanford Collaborative Oversight Committee

Sanford Research
Faculty recruitment committee
Faculty leadership & promotions committee
Marketing committee
PROMISE Scholars selection committee
Center for Pediatric Research CoBRE advisory committee

Professional
Peer review

Study Sections
Ad hoc Member, Lung Injury, Repair and Remodeling (LIRR) Study Section, NIH

Societies
Society for Redox Biology & Medicine; council, PR committee, abstract reviews
American Thoracic Society; abstract reviews
Society for Toxicology
Northland Chapter of the Society of Toxicology
  • Pediatric Research Society

Awards
  • Distinguished Researcher Award, USD SSOM Department of Pediatrics

Community/outreach
Boards
  • South Dakota STARBASE; chair
  • American Lung Association of the Upper Midwest; member
  • American Lung Association Scientific Advisory Committee; member

Presentations
  • Augustana University, Academy for Seniors “Integrating community partnerships in biomedical research”

Media
  • Sanford Health News “Man fundraises for research-study inspiration: his daughter” https://news.sanfordhealth.org/research/man-fundraises-for-research-study-inspiration-his-daughter/

Other
  • Sioux Falls Science Pub; organizing committee
Teaching
Courses
- USD CPHD 763 Developmental Biology of Disease; guest lecture on neurodevelopmental disorders.

Mentorship
Faculty
- Kevin Francis PhD

Postdoctoral fellows
- Vicki Swier PhD
- Tyler Johnson PhD
- Jacob Cain PhD

Graduate students
- Hannah Wollenzien PhD candidate USD BBS; dissertation committee
- Bethany Freel PhD candidate USD BBS; dissertation committee
- Rachel Laufmann PhD candidate USD BBS; dissertation committee
- Ruthellen Anderson MD-PhD candidate USD SSOM; dissertation committee

Medical trainees
- Kayla Knutson MD candidate USD SSOM; CHIRP mentor
- Ryan Patrick MD candidate; CHIRP mentor

Undergraduates
- McKayla Poppens; SPUR mentor
- Lexis Sherron; SPUR mentor

Scholarly Activity
Publications


Under review or in preparation


Grants

**Awarded**

NIH/NINDS (5R01NS082283-04) **Weimer, Jill (PI)** $1,751,733
04/01/2014 – 03/31/2019 (approved no-cost extension to 03/31/2020)
Novel Mechanisms for Distal Transport in Developing and Mature Neurons
This study will expand our understanding of CLN6’s contribution to crucial cellular processes and start to unravel the biological significance of the CCK complex in developing and mature neurons, as well as its role and the role of intracellular trafficking in neurological disorders such as the NCLs.

Children’s Tumor Foundation **Weimer, Jill (PI)** $805,296
10/01/2015-06/01/2019
The NF1 Porcine Model Collaborative Research Program
To strive to substantially contribute to improving healthcare for patients with neurofibromatosis type 1 (NF1) through enhanced biomedical research. This Synodos program (a multi-PI program grant) characterizes a newly developed porcine model of NF1, develops tools for identification of novel biomarkers and expands basic understanding into how mutations in NF1 lead to disease.

Children’s Tumor Foundation Khanna, Rajesh (PI)/Weimer Jill (CoI) $47,505
10/01/2015-05/20/2019
NF1 Porcine Model Collaborative Research Program
This study will develop a novel model for neurofibromatosis to enable testing of novel therapeutics for migraine and persistent headache pain.

Charlotte and Gwenyth Gray Foundation **Weimer, Jill (PI)** $2,259,698
10/01/2015-08/30/2019
Searching for an Effective Treatment for a CLN6-Batten Disease
This program project brings together a team exploring small molecules/repurposed FDA approved drugs, gene therapy, cellular therapy and gene editing as possibly treatments for CLN6-Batten disease. Our lab serves as the central Screening and Phenotyping Facility for all human patient cell line and mouse model studies.

NIH/NIGMS (1R01GM110373) Kim, Jinoh (PI)/Weimer Jill (Col) $178,696
01/01/2015 – 12/31/2019
Pathogenesis of Diseases Caused by Aberrant COPII Megavesicle Assembly
This collaborative project explores the role of mutations in SEC23A and SEC24D cranio-lenticulosutural dysplasia. Analyses will allow us to decipher the fundamental mechanism of assembly of COPII megavesicles, which will deepen our understanding on craniofacial diseases as well as disorders of forebrain development.

Sebastian Velona Foundation Weimer, Jill (PI) $226,950
10/01/2017-09/30/2019
Development of an scAAV9-CLN8 Gene Therapy for Treatment of Batten Disease
This program focuses on the preclinical efficacy studies for a novel AAV9-CLN8 gene therapy program for the treatment of CLN8-Batten disease patients.

Haley’s Heroes Foundation Weimer, Jill (PI) $385,627
04/20/2018-08/31/2019
AAV9 Gene Therapy Program for CLN1- Batten Disease
This grant is a collaborative effort with Sanford Research, LA Biomed and Nationwide Children’s Hospital related to development of a gene therapy-based treatment for CLN1-Batten Disease.

Recursion Pharmaceutical Weimer, Jill (PI) $396,323
05/07/2018-05/06/2021
Screening Novel Autophagy Compounds for the Treatment of Multiple Forms of Batten Disease
The purpose of this research is to determine how various pharmaceutical and small molecules targets that have been identified through in vitro HTP screening assays at Recursion affect CNL2- and CLN8 Batten disease in short term and long term in vivo assays.

NIH/NIGMS (5T35HD088383-02) Weimer, Jill (PI) /Miskimins, R (CoPI) $274,922
08/17/2017-07/31/2022
Developmental Research Program for Medical Students
The DRPSM will provide trainees with the skills and mentorship to conduct high quality research leading to publications, understand how research supports and advances clinical care, compete for fellowships, and to evaluate the literature.

NIH/NICHD (1R25HD097633-01) Weimer, Jill (PI) $498,958
01/01/2019-12/31/2023
The Pediatric Biomedical Research Program
The Pediatric Biomedical Research Program at Sanford Research will provide research experiences in pediatric biomedical science to undergraduate students in South Dakota, support the pursuit of scientific careers, and increase diversity in the scientific community.
Determining the role of CLN3 in the eye
The Weimer team will provide the Singh lab with access to tissue samples from both our CLN3-Batten disease mouse and pig models of disease.

ForeBatten
Weimer, Jill (PI)
$166,857
05/01/2019-04/30/2021
Identifying potential molecular therapies for the treatment of CLN3-Batten disease (small molecules, anti-sense oligonucleotides)
Using in vitro and in vivo techniques, we will determine the therapeutic efficacy of a variety of small molecule compounds and a Cln3d6,7,8 anti-sense oligonucleotide (ASO). Additionally, we will explore the interactome of CLN3 using in vivo BioID, determining if the ASO construct rescues protein interactome deficits.

Pending
Noah’s Hope
Weimer, Jill (PI)
$170,000
05/01/2019-04/30/2021
Characterization of a novel porcine model of CLN2 Batten disease
Here we will characterize a novel porcine model of CLN2 Batten disease, focusing on visual, behavior, and gait parameters, and classic Batten disease pathologies in the brain.

Noah’s Hope
Weimer, Jill (PI)
$210,200
05/01/2019-04/30/2021
Development of a multi-model biomarker system for CLN2 Batten disease
Here we will determine a multi-model biomarker scoring system for CLN2 Batten disease across multiple models, focusing on fluid, visual, behavior, and gait parameters, among others.

Stephen and Sandra Lehrman
Weimer, Jill (PI)
$183,000
05/01/2019-04/30/2021
Identifying potential molecular therapies for the treatment of CLN2-Batten disease
We will identify potential molecular therapies for the treatment of CLN2-Batten disease using in vitro screens of patient derived fibroblasts and lymphoblasts, Cln2-deficient mouse embryonic fibroblasts, and Cln2-deficient mouse cortical neurons, as well as in vivo using behavioral and histopathological assessment with Cln2R207X mice.

Haley’s Heroes
Weimer, Jill (PI)
$141,960
05/01/2019-04/30/2021
Identifying potential molecular therapies for the treatment of CLN1-Batten disease
We will identify potential molecular therapies for the treatment of CLN1-Batten disease using in vitro screens of patient derived fibroblasts and lymphoblasts, CLN1-deficient mouse embryonic fibroblasts, and CLN1-deficient mouse cortical neurons, as well as in vivo using behavioral and histopathological assessment with CLN1 mice.

New Zealand Council of Health
Hughes, Steph (PI)/Weimer Jill (Col)
$70,350
07/01/2019 – 06/30/2022
Dissecting the role of glial lysosome function in neurodegeneration
To dissect the role of glial lysosome function in synaptic dysfunction and neurodegeneration.

NIH/NINDS (1P01NS110528-01A1)
Weimer, Jill/Wallace, Peggy (multi-PI)
$7,513,822
09/01/2019-08/31/2024
An Integrated Approach to Studying Neurofibromatosis Type 1
Here we have built a synergistic program to facilitate close interactions with new and leading NF1 investigators that utilize a multimodal approach, including mouse, rat and porcine models as well as
human patients, to fully understand the molecular drivers of tumorigenesis, cognitive changes, and pain in NF1.

NIH/NINDS (1R01NS110911-01A1) Khanna, Raj (PI)/Weimer Jill (CoI) $106,544
09/01/19-08/31/24

Nociceptive Mechanisms Underlying Neurofibromatosis Type 1 (NF1) Pain
For the proposed study, the Weimer lab will work closely with the Khanna lab and Exemplar to onboard all needed NF1 mutant and control pigs, collect behavior data (including pain monitoring) and harvest tissue for both tissue culture work and pathological analysis, including all post-processing and assisting in performing any necessary histopathology work require with these porcine samples.

NIH/NINDS (1R01NS113233-01) Hastings, Michelle/Weimer, Jill (co-PI) $848,161
07/01/2019 – 06/30/2024

Reading Frame Correction or the Treatment of CLN3 Batten Disease
The purpose of this study is to examine the potential of antisense oligonucleotides as a treatment for CLN3-Batten disease using both a mouse and novel porcine model of CLN3-Batten disease as well as human patient cell lines.

Presentations

Oral

- National Children’s Hospital, San Jose, Costa Rica 12/13/18 “Innovative Approaches for Therapy Development in the Study of Rare Neuropediatric Diseases”
- 4th International Vatican Conference – Vatican 4/26/18 “Advancements in Treating Rare Diseases”
- University of Iowa 11/16/18 “Navigating the developing brain”
- North Carolina State University 10/22/18 “Innovative Approaches for Therapy Development in the Study of Rare Neuropediatric Diseases”
- 2nd Annual World Congress- Charles Rivers- Boston, MA 9/17/18 “Using a collaborative team approach to accelerate towards effective treatments for rare diseases”

Poster

  Sec24d is required for collagen processing and neural development. 49th Annual Society for Neuroscience Meeting: October 19-23, 2019 and Faculty for Undergraduates in Neuroscience (FUN) Symposium.


- **Swier, VJ, White, KA, Negrao de Assis, P, Moutal, A, Khanna, R, and Weimer, JM (2019).** The role of neurofibromin in neurocognitive impairment, CNS cell function and differentiation in a porcine model of Neurofibromatosis Type 1 (NF1). 9th Annual CoRDS Great Plains Rare Disease Symposium: May 10, 2019.

- **Blue, E, Dykstra, J, Negrão de Assis, P, Weimer, JM, Kota, DJ (2019).** Non-expanded adipose stromal vascular fraction cell therapy for articular injury. Sanford School of Medicine Scholars Research Symposium: May 2, 2019


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**Service**

**Medical School/University**

- Faculty Development Committee USD SSOM
- Student Progress and Conduct Committee USD SSOM
- USD Center for Brain and Behavior Research (CBBRe) Internal Advisory Committee

**Sanford Research**

- Center for Pediatric Research (NIH CoBRE) Internal Advisory Committee
- Coordination of Rare Diseases at Sanford (CoRDS) Advisory Committee
- Faculty Leadership and Promotions Committee
- Faculty Search Committee

**Professional**

**Peer review**

- Molecular Psychiatry
- Orphanet Journal of Rare Disease
- Journal of Visualized Experiments
- PLOS ONE
- Frontiers in Cellular Neuroscience
- Molecular Neurobiology
- Brain
- Molecular Pharmaceutics
- Advances in Physiology Education
- Journal of Neurochemistry
- Scientific Reports – NPG
- BBA-Molecular Basis of Disease
- Journal of Biomedical Sciences
Societies/memberships
- American Society of Neurochemistry
- Faculty for Undergraduate Neuroscience (FUN) Research
- International Chapter of Graduate Women in Science
- Society for Neuroscience

Study sections
- Depart. of Defense Tuberous Sclerosis Complex Research Program Study Section (ad hoc)
- NIH Neurodevelopment, Synaptic Plasticity, and Neurodegeneration Study Section (F03A)
- Alzheimer's Research UK (ad hoc)

Community/outreach
Memberships
- South Dakota Bio Association
- SD Chapter of GWIS

Other
FDA investigational new drug filings

**AVERA**

Jyoti Angal, MPH, CIP

Scholarly activity

Publications

Under review
Saharie, D, Dukes, KA for the PASS Network. Concurrent prenatal drinking and smoking increases the risk for SIDS: Report of the Safe Passage Study


Grants Awarded

2/5 The cumulative risk of substance exposure and early life adversity of child health development and outcomes (R34 DA050288)
Agency: NIH/National Institute for Drug Abuse (NIDA) & Eunice Kennedy Shriver National Institute for Child Development (NICHD)
Project Period: 09/30/2019 – 3/31/2021 Fundiing: $503,589
P.I.: Amy J. Elliott, Ph.D.
Role: Co-Investigator
Project Statement: This is an 18 month planning period grant to formulate the larger hBCD 10-year study. Our proposal brings together a unique combination of experts in child development and adversity, pediatric neuroimaging, medicine, biostatistics, and public health in strategically located heavily impacted areas to determine the extent to which: 1. Brain growth is disrupted by fetal substance and related pre and post-natal exposures; and 2. Disrupted patterns of brain growth are causally related to later cognitive and behavioral outcomes

Presentations
Submitted for presentation at that Society for Mathematical Biology annual meeting.

Service

Medical school/University
Member, South Dakota MPH Advisory Committee
Member, Pre-Health Professions External Advisory Board, South Dakota School of Mines & Technology

Avera Research Institute
Co-Chair, Avera Health Sciences IRB

Professional
Member, Department of Health and Human Services, Secretary’s Advisory Committee on Human Research Protections

Amy J. Elliott, Ph.D.

Research Division Members: Jyoti Angal, Amy Elliott, Christa Friedrich, Morgan Nelson, Ping Ye
Teaching Medical Students

- Nevada Sorenson (SSOM Pathways), 2017 - present
- Kenzie Lee (SSOM Pathways), 2017 – present

Additional Students

- 2019 – Andrew Holmes (undergraduate, University of South Dakota)
- 2019 – Evelyn VanDeMark (undergraduate, University of Sioux Falls)
- 2019 – Kirsten May (undergraduate, University of South Dakota)
- 2019 – Kayla Schacher (undergraduate, Colgate University)
- 2019 – Amanda Conway (graduate, University of South Dakota)
- 2019 – Sooyong Kim (graduate, University of North Dakota)
- 2019 – Kailhlen Smith (undergraduate, South Dakota State University)
- 2019 – Grace Adam (undergraduate, Southeast Technical University)
- 2019 – Tiffany Johnson (graduate, University of South Dakota)
- 2019 – Cameron Thompson (undergraduate, South Dakota School of Mines and Technology)
- 2019 – Nicholas Palko (undergraduate, Black Hills State University)
- 2019 – Meerab Joseph (undergraduate, South Dakota School of Mines and Technology)
- 2019 – Lucy Cottier (undergraduate, Oglala Lakota College)

Scholarly activity

Publications (accepted)


2. Kenyon, D, Heinzmann, J, Castille, D, Elliott, AJ (accepted for publication). The Collaborative Research Center for American Indian Health’s River of Life: Special Issue Introduction. American Indian / Alaskan Native Mental Health Research.


Publications (under review)


Grants (awarded)

Title: Environmental Influences on Child Health Outcomes in the Northern Plains Safe Passage Study Cohort – Phase II (UH3 OD023279)
Source: NIH/Office of the Director PI: Amy J. Elliott, Ph.D.
Project Statement: The overall goal of this proposal is to leverage the extant Prenatal Alcohol in Sudden Infant Death Syndrome and Stillbirth Network Safe Passage Study (PASS) cohort to study associations between prenatal environmental exposures on neurodevelopmental and asthma outcomes in a highly vulnerable yet understudied population.
ECHO UH3 Phase
Start & End Dates: 9/01/2018 – 8/31/2023
Amount
Funding: $17,430,034

Title: CBPR Initiative in Reducing Infant Mortality in American Indian Communities (R01HD080544)
Source: NIH/Eunice Kennedy Shriver National Institute for Child Health & Development (NICHD)
Start & End Dates: 07/01/2014 – 06/30/2019 (currently in carry-over)
Funding: $1,701,500
P.I.: Amy Elliott, Ph.D.
Co-P.I.: Jyoti Angal, MPH
Project Statement: The objective of this grant is to work with American Indian communities in the design and implementation of an intervention to reduce risk for Sudden Infant Death Syndrome (SIDS) and other related infant deaths due to unsafe sleep environments.

Title: 2/5 The cumulative risk of substance exposure and early life adversity of child health development and outcomes (R34 DA050288)
Agency: NIH/National Institute for Drug Abuse (NIDA) Project
Period: 10/1/2019 – 3/30/2021
Funding: $521,450
P.I.: Amy J. Elliott, Ph.D.
Project Statement: This is an 18 month planning period grant to formulate the larger hBCD 10-year study. Our proposal brings together a unique combination of experts in child development and adversity, pediatric neuroimaging, medicine, biostatistics, and public health in strategically located heavily impacted areas to determine the extent to which: 1. Brain growth is disrupted by fetal substance and related pre and post-natal exposures; and 2. Disrupted patterns of brain growth are causally related to later cognitive and behavioral outcomes.

Presentations (oral & poster abstracts, invited seminars: author(s), title, location/conference, month/year)

tion during pregnancy in the Safe Passage Study. Presentation at the 41st Annual International Conference of the IEEE Engineering in Medicine & Biology Society, Berlin, Germany.

- Elliott, AJ. (October, 2018). Expert panel meeting to discuss study design for a longitudinal study of the impact of prenatal opioid and other substance exposure on brain and behavioral development. Invited panel discussant at National Institute on Drug Abuse, Bethesda, MD.
- Elliott, AJ. (October, 2018). Prenatal environmental exposures and pediatric health outcomes. Invited presentation at Vrije Universiteit, Amsterdam, Netherlands.

Service (positions, committees, etc)
Medical school/University
- Member, Center for Brain and Behavior Research, University of South Dakota: 2015 – present
- Member, Diversity Health Affairs Committee, University of South Dakota School of Medicine: 2017 – 2019
- Associate Research Director, Internal Medicine Residency Program, University of South Dakota School of Medicine: 2019 - present

Avera Research Institute
- Member, Research Executive Committee, Avera McKennan Hospital & University Health Systems. 2018 – present
- Member, Diversity Health Affairs Committee, Sanford School of Medicine, University of South Dakota: 2017 - 2019

Professional (e.g. societies/memberships, peer review, study section, etc)
- NIH study section
- Manuscript review
  - American Journal of Public Health
  - Maternal and Child Health
  - Pediatrics
  - South Dakota Medicine
- Co-Chair Cohort Representative, ECHO Executive Committee: 2019 – present (cohort
teer nominated position)
- Co-chair, Biospecimen Working Group, Environmental Influences on Child Health Out-
comes (ECHO), NIH Office of the Director: 2016 – 2019 (NIH nominated position)
- Advisory Board Member, Healthy Native Babies Project, National Institutes of Health: 
2016- present

Community (e.g. volunteer, boards, media, etc)
- Board Member, American Cancer Society, Midwest Division State Leadership Board: 
2015 - present

Christa Friedrich, MS

Teaching Mentoring

Summer Students
- 2019 – Andrew Holmes (undergraduate, University of South Dakota)
- 2019 – Evelyn VanDeMark (undergraduate, University of Sioux Falls)
- 2019 – Kirsten May (undergraduate, University of South Dakota)
- 2019 – Kayla Schacher (undergraduate, Colgate University)
- 2019 – Amanda Conway (graduate, University of South Dakota)
- 2019 – Sooyong Kim (graduate, University of North Dakota)
- 2019 – Kaihlen Smith (undergraduate, South Dakota State University)
- 2019 – Grace Adam (undergraduate, Southeast Technical University)

Additional
- Avera Prep facility tour and presentation for local high school students
- Presentation for state HOSA convention

Scholarly activity

Publications
- Shuffrey LC, Myers MM, Isler JR, Lucchini M, Sania A, Pini N, Nugent JD, Condon C, 

- Prenatal Exposure to Alcohol and Tobacco Alters Neonatal Brain Activity: Results 
from the Safe Passage Study. Journal of the American Medical Association: Pe-
diatrics.

(Accepted for publication). Neonatal resting EEG linked to individual differences in 
so-
ioemotional outcomes and autism risk in toddlers. Developmental Psychobiology

Under review
- Ping Ye, Jyoti Angal, Deborah A. Tobacco, Amy R. Willman, Christa A. Friedrich, Mor-
gan E. Nelson, Larry Burd, Amy J. Elliott. Prenatal drinking in the Northern Plains: differ-
ences between American Indian and Caucasian mothers.

Presentations
- Friedrich C, CPCR Staff (June & July 2019). Avera Prep facility tour and research 
presentation.
Sprint. Invited presentation at the Environmental influences on Child Health Outcomes (ECHO) 
Face-to-Face meeting.

Friedrich, C (March 2019). HOSA Future Health Professionals state convention. Dr. Google presentation.


Service
Professional (e.g. societies/memberships, peer review, study section, etc)
- Training Advisory Board member, Environmental influences on Child Health Outcomes (ECHO), 2019
- Stakeholder Engagement Working Group, Environmental influences on Child Health Outcomes (ECHO), 2018
- Chair, CPCR Professional Development Committee

Community (e.g. volunteer, boards, media, etc)
- Coach, Senior Rhino Hockey, 2017 - present

Morgan Nelson, MS

Teaching
Medical Students
- 2017-Present: Nevada Hughes (Sanford School of Medicine at the University of South Dakota)

Courses
- 2019: PSY233: Statistics for the Behavioral Sciences at the University of Sioux Falls, Instructor
- 2019: PSY250: Methods in Research course at the University of Sioux Falls, Co-instructing with Andrew Beck
- 2018: ECO391 Applied Economic Research course at the University of Sioux Falls, Co-instructing with Lorri Halverson

Mentoring (trainees, residents, thesis committees, etc)
- Mentored students from the FA18 ECO391 class to do presentations at the 45th Eastern Economic Association Conference in New York, NY
  - Rosario S. Strategies for Recruiting and Retaining Research Study Participants.
  - Benson EJ, Kelley MJ, Wohlers PR. Socioeconomic Status in Relation to Health Research.
  - Sigg CJ, Paul BA. Socioeconomic Status in Health Research: A Multivariate Look Beyond Typical Indicators.

- 2019-Present: Research/Biostatistical Consultant for the Internal Medicine Residents at Sanford School of Medicine, Internal Medicine Department
- 2018-Present: Biostatistical Consultant for the Psychiatry Residents at Avera Behavioral Health

Summer Students
- 2019: Andrew Holmes (Undergraduate, University of South Dakota)
- 2019: Kayla Schacher (Undergraduate, Colgate University)
Scholarly activity

Accepted Publications


Submitted Publications


Presentations

- Morgan Nelson, Interpreting Statistics in Literature: Reading beyond p-values. Sanford School of Medicine, Internal Resident Noon Conference series, 09/19

Service

Avera Research Institute

- Scientific Member, Avera Health Oncology Institutional Review Board (IRB), 2019-Present
• Chair, Data Management Committee of Center for Pediatric and Community Research, 2017-Present
• Member, Analytics Committee of Center for Pediatric and Community Research, 2019-Present
• Member, Protocol and Regulatory Committee of Center for Pediatric and Community Research, 2017-Present

Professional (e.g. societies/memberships, peer review, study section, etc)
• Member, American Statistical Association, 2015-Present
• Member, Society for Epidemiologic Research, 2019-Present
• Member, South Dakota Public Health Association, 2019-Present

Community (e.g. volunteer, boards, media, etc)
• Infant Care Practices. Data Safety Monitoring Board. 2018-present.

Ping Ye, PhD

Teaching Lecture
• PHA-699-S01D, Health Informatics, South Dakota State University (1 credit online)

Mentoring
• Internal Medicine Residents, University of South Dakota School of Medicine
• Tiffany Johnson, Public Health Master Program, University of South Dakota
• Meerab Joseph, undergraduate, South Dakota School of Mines and Technology
• Kaihlen Smith, undergraduate, South Dakota State University

Scholarly activity Publications

Under review

Grants (awarded & submitted: title/agency/amount/start & end dates/role/status/decision)
Awarded
• Environmental Influences on Child Health Outcomes in the Northern Plains Safe Passage
  UH3 OD023279
  Source: NIH/OD
PI: Amy J. Elliott, Ph.D.

**Role: Co-Investigator**
Leading the epigenetics study on the association between DNA methylation and children asthma
Start & End Dates: 9/01/2018 – 8/31/2023

- Mechanisms of fork restart in response to genotoxic stress
  R01 GM112864
  Source: NIH/NIGMS
PI: Weihang Chai, Ph.D.

**Role: Co-Investigator**
Leading the bioinformatics and NextGen sequencing data analyses
Start & End Dates: 09/01/2014-08/31/2020

Submitted
- HRSA Rural Maternity and Obstetrics Management Strategies Program
  Source: Health Resources and Services Administration
PI: Kimberlee McKay, MD

**Role: Statistician**
Flavonoid metabolite 2,4,6-THBA as a chemopreventive agents against colorectal cancer
Source: NIH R15
PI: Jayarama Gunaje, PhD

**Role: Co-Investigator**

Presentations
- Poster or oral presentation: Associations between genomic variants of alcohol dehydrogenase genes and fetal alcohol syndromes in the Safe Passage Study. Genome Informatics CSHL Meeting, Cold Spring Harbor, NY, November 6-9, 2019.

Service
**Avera Research Institute**

*Committee service*
- Chair, CPCR Data Analytics Committee

Statistical consult
- Kimberlee McKay, MD, Avera Remote Gestational Diabetes Monitoring: Testing & Treatment Adherence
- Sam Gaster, Francine Arneson, MD, Luis Rojas, MD. Clinical and financial outcomes associated with specialty palliative care for cancer patients in the outpatient setting

Professional

*Grant reviewer*
- *Ad hoc* reviewer, March of Dimes 2020 Research Grants
- Standing member, NIH NICHD Reproduction, Andrology and Gynecology study section (review R01, R03, R13, K99/R00, K08, K23 grant applications)

*Society position*
- Co-chair, Awards Committee, Society for Mathematical Biology
- Secretary, Society for Mathematical Biology

*Committee service*
• Co-chair, Biospecimens Evaluation Committee, Environmental Influences on Child Health Outcomes, sponsored by NIH DO.

Conference organizer
• Scientific Committee Member, the 2020 Society for Mathematical Biology Annual meeting joint with the European Society for Mathematical and Theoretical Biology, Heidelberg.

Fellowship collaborator
• F31 Ruth L. Kirschstein National Research Service Award Individual Predoctoral Fellowship application titled “Glucocorticoid Signaling and Stress in the Developing n Cincotta, a graduate student in the laboratory of Dr. Diana Laird at University of California, San Francisco.
**Surgery**

**Dr. Jon Ryckman, Division Chief**

**Division Members**
Adam Gorra, MD, FACS, Scott Keckler, MD, FACS, Jenifer Reitsma, CNP, Sarah Dorr, CNP

**Teaching**

**Medical Students**
Actively involved in medical student teaching including sub-internships and clinical rotations in surgery.

**Healthcare Profession Students**
Our nurse practitioners consistently accept students to be part of the service.

**Undergraduate Students**
Pre-med student that rotates frequently on our service for observation and research assistance.

**Residents**
Full time teaching of surgical residents and pediatric residents.

**CME**

**Lectures**

**Programs**
Dr. Ryckman recently attended the Advanced Pectus Course sponsored by Phoenix Children’s Hospital

**Scholarly Activity**

**Publications**

Reitsma, J. & Schumacher, B. (2018). *Nursing Assessment of Intra-abdominal Hypertension and Abdominal Compartment Syndrome in the Neonate*. Advances of Neonatal Care; 18(1); pp.7-13


**Clinical Service**

**New Clinics/Programs/Outreach**
Dr. Keckler joined the team in September 2019. He is a board certified pediatric surgeon with over 7 years of experience after fellowship. He has a background of excellence in all pediatric surgical diseases, but especially critical care and Hirschsprung’s disease.
Innovative Clinical Services

Projects:
Nuss Procedure formalized pathway including standard pain control protocol
Gastroschisis feeding guideline for the neonate
Ongoing work on formalizing a pediatric appendicitis pathway for ER workup of appendicitis
Certified pediatric wound/ostomy service
Pediatric concussion clinic
Non-operative and operative treatment for pectus excavatum

Volunteer Service

Hospital/Clinic
Dr. Ryckman is the Chief of Staff, Surgery, for Sanford Health, South Region

Professional
Dr. Ryckman is the medical director of South Dakota EMS-C

Other

Awards
Sarah Dorr, MSN, APRN-CNP, CPNP-PC
Rising Star Award recipient, Sanford Health APP Recognition Event, October, 2019

Jenifer Reitsma, MSN, APRN-CNP, CPNP-PC/AC
Transformational Leadership Award recipient, Sanford Health APP Recognition Event, November, 2018
Center for Disabilities
Dr. Eric Kurtz, Executive Director

Division Members:
Eric Kurtz, Ph.D. Executive Director, SD LEND Director
Ryan Groeneweg, Ed.S., BCBA, Director of Community Education
Marni Johnson Martin, Au.D., Interdisciplinary Training and Clinic Director
John R. Johnson, Ph.D., Research and Development Director
Jana Richardson, B.S., Finance and Administration Director
Jim Warne, M.S., Community Engagement Director
Bridget Amundson, B.S., Birth to 3 Service Coordinator
Joan Augeenbaugh, Birth to 3 Service Coordinator
Ajay Bhatara, NCI Data Specialist
Kristine Bollig, M.S., Behavioral Specialist
Greg Boris, Ed.D., Senior Leadership Development and Policy Specialist
Jamie Butler, B.S., Birth to 3 Service Coordinator
Teresa Byrnes, Clinic Coordinator
Debbie Carter, Accountant
Brenda Canfield, Senior Accountant
Natalia Davila, Research Assistant
Tova Eggerstedt, M.S., Behavioral Specialist
Mary Fitzpatrick, Birth to 3 Program Coordinator
Kendra Gottsleben, B.A., Marketing Communication Specialist
Erin Gustaf, Staff Assistant
Lenora Heckel, National Core Indicators Coordinator
Pat Herman, MURP, AICP, Grants Manager
Stephanie Krusemark, B.S., Birth to 3 Service Coordinator
Steven Larson, M.Ed., M.Div., National Core Indicators Specialist
Emily Meier, M.A., Training and Technical Assistance Specialist
Shannon Nelson, B.S., Birth to 3 Service Coordinator
Nicole Saue, B.S.W., Birth to 3 Service Coordinator
Kurt Schiferl, B.S., Behavior Specialist
Brandy Sebera, M.S., Deaf/Blind Program Instructor
Mellissa Stellingwerf, Department Assistant
Letty Thelen, Department Assistant
Jon Wallner, M.S., Training Associate
Wayne Weston, B.A., Training Specialist
Ann Wilson, Ph.D., Senior Research Associate

Affiliated Faculty:

Leadership Education in Neurodevelopmental Disorders (LEND) Discipline Heads:

Audiology: Marni Johnson Martin, Au.D.,
Clinical Psychology: Jean Caraway, Ph.D.
Family/Parent: Lisa Sanderson
Nutrition/Dietetics: Kendra Kattelmann, Ph.D., RDN, LN, FAND
Occupational Therapy: Shana Cerny O.T.D., OTR/L, BCP
Physician Assistant: Julie Johnson, M.D.
Physical Therapy: Lana Svien, Ph.D.
School Psychology: Daniel B. Hajovsky, Ph.D., NCSP
Self-Advocate: Jessica Lamb, M.Ed.
Social Work: Jay Memmott, M.S.W., Ph.D.
Speech-Language Pathology: Elizabeth K. Hanson, Ph.D.

LEND Ancillary Faculty:

Audiology: Teri James Bellis, Ph.D.
Tribal Liaison/Diversity and Inclusion Consultant: Kevin Decora, M.A.
Psychiatry Ancillary Discipline Head: David Ermer, M.D.
Community Clinic Ancillary Discipline Head: Cheryl Raysby-Park, M.A.
Leadership Ancillary Discipline Head: Renee Schulz, R.N.
Developmental and Behavioral Pediatrician: Carolyn Kippes, M.D.
Registered Dietitian: Jocelyn Johnson, MS, RD

Teaching:

Academic Courses
1. FAMP 540: Interdisciplinary Healthcare Teams. Meier, E; Boris, G.
2. HSC 285: History and Introduction to Disability. Wilson, A.
3. HSC 340: Interdisciplinary Person-Centered Care. Wilson, A.
4. SPED 708: Co-Occurring Disorders. Meier, E.

Continuing Education Courses
1. Bollig, Kristine; Meier, Emily; Meier, Emily, June 2019. Autism Summer Institute
2. Bollig, Kristine; Bollig, Kristine; Meier, Emily; Meier, Emily, January 2019. ADOS-2 - Refresher Online Training
4. Eggerstedt, Tova; Bollig, Kristine, 2019. Understanding the Complex Nature of Students with Mental Health Concerns (Sioux Falls, Pierre, Rapid City). Capacity building to understand the complex and challenging behaviors of students with mental health concerns.
5. Meier, Emily; Eggerstedt, Tova; Bollig, Kristine, November 2018. ADOS-2 Training

6. Moehring, Rose; Sebera, Brandy, December 2018. Deaf-Blind Dakota Cohort Training (4 online courses each semester)

Graduate Students
11 Doctoral Students
Area of Study:
Psychology – Clinical Psychology - School Psychology Audiology
Occupational Therapy Physical Therapy

20 Masters Students
Area of Study:
Education/Special Education Nutrition Speech-Language Pathology
Social Work Public Health Genetic Counseling

Undergraduate Students
25 Undergraduate Students
Areas of Study:
Chemical Engineering Social Work Biological Sciences Psychology
Health and Community Services Public Health Health Management
Wellness Political Science
Liberal Arts & Sciences, Humanities, & General Studies Global Resource Native Studies
Special Education Systems
Medical Residents
12 Pediatric Residents

Internships
1 Masters of Special Education
1 International Fellow: Americans with Disabilities Act Fellow –Sponsored by the U.S. Department of State

Scholarly Activity:

Book Chapters

Peer-Reviewed Publications


Contracts, Grants and Sponsored Research:
- South Dakota University Center for Excellence in Developmental Disabilities Administration on Developmental Disabilities (PI: E. Kurtz) 07/2018 – 06/2019 $570,000.00
- Leadership Education in Neurodevelopmental Disabilities (SD LEND). (PI: E. Kurtz) 07/2018-06/2019 $728,318
- MCHC/Research Initiatives for Student Enhancement-Undergraduate Program (KKI RISE-UP); Centers for Disease Control. (PI: E. Kurtz) 09/2018 - 09/2019 $38,000
- Training and Technical Assistance for Developmental Disabilities; SD Department of Education. (PI: R. Groeneweg) 09/2018 - 06/2019 $200,000
- SD Birth to Three IDEA Part C Service Coordination: Areas I; K; and M; SD Department of Education. (PI: M. Fitzpatrick) 07/2018-06/2019 $458,275
- National Core Indicator; South Dakota Department of Human Services. (PI: L. Heckel) 07/2018-06/2019 $35,563
- Adult Behavioral Grant; State of South Dakota. (PI: R. Groeneweg) 07/2018 - 06/2019 $200,000
- Disability Awareness and Training program (DAT); Administration for Community Living – ACL. (PI: J. Warne) 09/2018 - 08/2019 $49,971
- Creating Humanities Communities: Flutter Productions; Black Hills Works. (PI: J. Johnson) 09/2017 -08/2020 $50,000
- Sinte Gleska Disability Center; U.S. Department of Health & Human Services. (PI: J. Warne) 09/2017 - 09/2020 $75,000
- Midwest Disability Employment Consortium (Kessler); University of Iowa. (PI: W. Parent-Johnson) 01/2018 - 12/2019 $130,000
- Adventure Camp; South Dakota Council on Developmental Disabilities. (PI: E. Meier) 07/2018-03/2018 $2,810
- Public Information Grant; South Dakota Council on Developmental Disabilities. (PI: K. Gottsleben) 04/2018 - 03/2019 $18,000
- Public Information Grant; South Dakota Council on Developmental Disabilities. (PI: K. Gottsleben) 04/2019 - 03/2020 $18,000

Presentations:
State
3. Bollig, Kristine; Groeneweg, Ryan, 2019. FBA to BSP Effective Intervention for Individuals with Complex and Challenging Behaviors
4. Bollig, K. School-Based Enterprises. Sioux Falls, SD. July 2018


21. Hanson, E., Wiessner, M., Summer Teacher Institute, "Help! I have a new student in my classroom who needs AAC!," Center for Disabilities, University Center. (July 19, 2018).


26. Meier, Emily; Meier, Emily, June 2019. Lighting the Way Conference - Health care Transition and ASD.


40. Moehring, Rose, April 2019. Deaf-Blind Dakota's AER Conference
63. Schiferl, Kurt, December 2018. Crisis Intervention and prevention
64. Schiferl, Kurt, September 2018. Youth Mental health 1st aid One day course for suicide prevention
65. Schiferl, Kurt; Groeneweg, Ryan, February 2019. ABA Basics PowerPoint presentation on the basics of ABA for Community Service Providers - Pierre
66. Schiferl, Kurt; Laura Sundberg, October 2018. Crisis Intervention and prevention.
67. Sundberg, Laura; Schiferl, Kurt, November 2018. Crisis Intervention and Prevention, Suicide Prevention.
68. Wallner, Jon, July 2018. SD Educator's Institute Presentation: Customized Employment & Job Development: The Basics Conference
69. Wallner, Jon, July 2018. SD Educator's Institute Presentation: Intro to Supported Employment
70. Wallner, Jon, October 2018. Speaking Business: Using Terms Employers Understand
74. Wilson, A.L. Who is Mother Goose and What does she know? History Club, Sioux Falls, May 11, 2019.
76. Wilson, A.L. The flu’s silver lining. Dakota Conference of the Northern Plains. April 26, 2019

**National**


International
Meier; Emily. TransitioninAction. Pacific Rim Conference Presentation. Honolulu; HI. October 2018

Other Videos:

Involvement in Boards and Councils
https://www.youtube.com/watch?v=46HOTm6CBvc&t=1s

Post-Secondary Opportunities in South Dakota
https://www.youtube.com/watch?v=BPLSAhTzJS0&t=4s

Center for Disabilities Symposium Video 1
https://www.youtube.com/watch?v=D1jdHEgmeWY&t=1s

Center for Disabilities Symposium Video 2
https://www.youtube.com/watch?v=HyTZqi9H5s

Center for Disabilities Symposium Video 3
https://www.youtube.com/watch?v=wHLJ7SZcTi0&t=1s

Bullying Awareness and Prevention Video Part 1
https://www.youtube.com/watch?v=s4SFbUvdOmI&t=1s

Bullying Awareness and Prevention Video Part 2
https://www.youtube.com/watch?v=1Cw7hg7IhQUs&t=64s

Natural Supports in a Nutshell
https://www.youtube.com/watch?v=EiZX8v-ODcA&t=47s

Center for Disabilities Oyate Circle Program PSA
https://www.youtube.com/watch?v=f5UFoYqHihs

What are Learning Disabilities?
https://www.youtube.com/watch?v=De50dfn8tms

Infographics
- Building Capacity Through Online Trainings in Deaf-Blindness
- Friendships
- Leadership Qualities for Self-Advocates
- Preparing for a Doctor's Visit
- Role of a Genetics Counselor
- Sexual Violence and the Native American Population
- Sibling Resources - Midwest Region
- Spread the Word to End the R-Word
- TransitionInAction Clinic
- World Cafe
- 4 Steps to Student Led IEPs
- Autism & Natural Supports
- FAQ about Supported Decision-Making
- Questions for Supported Decision-Making Team Members
- Sexual Violence and Disability Statistics
Web based
Center for Disabilities Community Connections Newsletters
  - May 2019
  - January 2019
  - September 2018

Social Media: https://www.usd.edu/medicine.center-for-disabilities/social-media
  Center for Disabilities Twitter Page
  Center for Disabilities Facebook Page
  South Dakota LEND Facebook Page
  RISE UP Facebook Page.

Autism Spectrum Disorder Handbook
Developmental Disabilities Handbook
Fetal Alcohol Spectrum Disorder (FASD) Handbook
FASD Educational Strategies
History of the Disability Movement in South Dakota
Resource Guide: Alcohol and Drug Use During Pregnancy
Resource Guide for People with Disabilities

Radio
Eric Kurtz - South Dakota Public Broadcasting (SDPB) “In the Moment” March 6, 2019.

Magazine
South Dakota Possibilities Magazine
http://apps.usd.edu/administrative/flip/possibilities-fall-2018/

Service:
Clinical/Programs/Outreach
  • Autism Spectrum Disorder Clinic
  • Fetal Alcohol Spectrum Disorder Clinic - Rapid City
  • Fetal Alcohol Spectrum Disorder Clinics - Sioux Falls
  • LEND Developmental Clinic
  • Genetic Health Care Transition Consultations
  • Transition in Action Clinic
  • South Dakota Birth to Three Service Coordination for the counties of Davison, Hanson, McCook, Minnehaha, Sanborn, Turner, Miner, Lake, Moody and Brookings counties in South Dakota.

University
  • USD Digital Accessibility Committee – Ryan Groeneweg
  • University Senate, College of Arts and Sciences, Social Sciences Representative. (2017-2019) – Marni Johnson Martin
  • Interprofessional Education Committee (formerly Health Affairs Curricular Committee). (September 2005 - Present) – Marni Johnson Martin

National
  • Association of University Centers on Disability (AUCD) National Training Directors Council – Eric Kurtz, Marni Johnson Martin
  • Association of University Centers on Disability (AUCD) Multicultural Council – Jim Warne
  • Association of University Centers on Disability (AUCD) Community Education and Dissemination Council – Ryan Groeneweg, Emily Meier.
  • Association of University Centers on Disability (AUCD) Council of Research and Evaluation – John Johnson
• Association of University Centers on Disability (AUCD) Policy Committee – Greg Boris
• Association of University Centers on Disability (AUCD) Rural Area Code Caucus – Greg Boris
• Association of University Centers on Disability (AUCD) Business Manager Workgroup – Jana Richardson
• Association of University Centers on Disability (AUCD) Special Interest Group on Deaf Blindness – Rose Moehring
• Association for the Education and Rehabilitation of the Blind and Visually Impaired, President – Rose Moehring
• Editorial Board: Journal of Rehabilitation - John Johnson
• National MPS Adult Resource Committee – Kendra Gottsleben
• National MPS Adult Advocacy Committee – Kendra Gottsleben
• National Organization on Fetal Alcohol Syndrome (NOFAS) – Marni Johnson Martin
• National Para-Educator Center, Reviewer – Rose Moehring
• National Center on Deaf Blindness – National Deaf Blind Educator Network – Rose Moehring
• National Center on Deaf Blindness-Early Intervention Workgroup – Rose Moehring

International Consulting
• Humanitarian Audiology, Bugando Medical Centre, ENT Department, Mwanza, Tanzania. (May 30, 2016 - Present) - Marni Johnson Martin

Professional
• SD Governor’s Council on Developmental Disabilities Board Member – Eric Kurtz
• Clinical Director for Healthy Hearing, South Dakota Special Olympics, Special Olympics International – Marni Johnson Martin
• Deaf-Blind Advisory Board – Rose Moehring
• Sioux Falls Board of Health – Rose Moehring
• SD Division on Developmental Disabilities-Community of Practice – Rose Moehring
• SD Augmentative & Alternative Communication Workgroup member – Rose Moehring
• EHDI – Early Hearing Detection and Intervention – Rose Moehring, Mary Fitzpatrick, Eric Kurtz, Marni Johnson Martin
• Bridging SD – Rose Moehring
• Interagency Transition Council Meetings – Rose Moehring
• Business Resource Network Board Treasurer – Pat Herman
• EDHI – Early Detection Hearing Impairment – Mary Fitzpatrick
• Birth to Three State Systemic Improvement Plan Stakeholders – Mary Fitzpatrick
• Disability Advocacy Network (DAN) – Greg Boris
• Sioux Falls Area Chamber of Commerce Education and Workforce Committee – Greg Boris
• Business and Professional Women Sioux Falls- Pat Herman
• Interstate Telehealth – Emily Meier
• SoDAC & AAC – Emily Meier
• SD Urban Indian Health – Emily Meier
• South Dakota Board of Vocational Rehabilitation Committee – Kendra Gottsleben
• South Dakota Association of Applied Behavior Analysts – Ryan Groeneweg
• Sanford CoRDs External Advisory Board – Kendra Gottsleben

Community
• Board of Directors, SESDAC, Inc., Vermillion, SD – Marni Johnson Martin
• White Cane Day Committee – Rose Moehring
• National Disability Employment Awareness Month Committee – Pat Herman
- Sioux Falls Bicycle Committee – Greg Boris
- First Lutheran Board of Education – Bridget Amundson
- Lighting the Way – Emily Meier
- Crooks City Council – Jana Richardson
- Crooks Nonprofit 501c3 Organization (CAWT) – Jana Richardson
- Dow Rummel Board of Trustees – Kendra Gottsleben
- Dow Rummel Fund Development Committee – Kendra Gottsleben
- South Dakota RehabAction – Jon Wallner

Regional Partnership Grant project through Volunteers of America, Dakotas’ New Start Program – Eric Kurtz and Mary Fitzpatrick
Dr. Fernando Bula-Rudas serves as the Pediatric Clerkship Director and oversees all pediatric education activity on each of the three campuses that engage in clinical training for Pillar 2 and 3. Drs. Sam Schimelpfenig, Maggie Kuehler, and April Willman serve as education coordinators on the Avera-Sioux Falls, Rapid City and Yankton campuses, respectively. Pediatric education receives dedicated administrative support from Angie Tufts and Janet Reider.

**Clerkship Objectives for Pillar 2:**

**Objectives for the Outpatient Pediatric Experience:**

1. Demonstrate ability to recognize normal variants of growth and development in children (i.e. milestones).
2. Formulate differential diagnoses for common pediatric symptoms.
3. Perform a complete pediatric history, physical exam and develop a management plan for the patient.
4. Develop presentation and note writing skills specific to outpatient pediatric patients.
5. Understand importance of communication with parents and caregivers when caring for pediatric patients.

**Objectives for Subspecialty Pediatric Experience:**

1. Understand when a referral to a pediatric subspecialist is appropriate.
2. Formulate differential diagnoses for pediatric conditions within a specific subspecialty.
3. Perform a focused, specialty/organ specific pediatric physical exam.
4. Develop presentation and note writing skills specific to pediatric subspecialty/organ system.
5. Understand importance of communication with parents and caregivers when caring for pediatric patients.

**Pediatric Education in the Longitudinal Integrated Curriculum**

The first week of the new curriculum took place on the children’s hospital inpatient service in a mini-block experience. The mini-block submerged the student in hospital pediatrics. The following is a daily schedule and expectations during the week mini-block.

**Schedule while on week Mini-Block – Pediatrics**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0600 - 0630</td>
<td>Meet with residents to receive sign out from the night resident on your patients</td>
</tr>
<tr>
<td>0630 - 0730</td>
<td>Pre-round (computer rounds and perform physical exam) on your assigned patients, check in with the senior resident</td>
</tr>
<tr>
<td>0730 – 0815</td>
<td>Morning Report (various pediatric attendings attend, it is presented by pediatric residents; encouraged participation by MSIII, MSIV) (Pediatric Grand Rounds is held on Thursdays in Schroeder Auditorium except on the third Thursday of the month due to faculty meeting)</td>
</tr>
<tr>
<td>0815 – 0900</td>
<td>Continue pre-rounding on ward patients, write notes, coordinate patient care</td>
</tr>
<tr>
<td>0900 – 0930</td>
<td>Interdisciplinary Rounds (RNs, CCCs, Social Work, Child Life, RT)</td>
</tr>
<tr>
<td>0930 – 1200</td>
<td>Bedside Rounds (with hospitalist, residents, and team members)</td>
</tr>
<tr>
<td>1200 – 1300</td>
<td>Lunch / Resident Conference</td>
</tr>
<tr>
<td>1300 – 1700</td>
<td>Finish Rounds / Discharge Patients / Admit Patients/Topic discussions led by Hospitalist, chief resident or resident on common pediatric diagnoses.</td>
</tr>
<tr>
<td>1800 - 1830</td>
<td>Sign out your patients with night resident</td>
</tr>
</tbody>
</table>

**Expectations:**

2. One weekday of in-house call until 2100 and 1 weekend day of in-house call from 0600 – 2100 during the week is required. Extra weekday or weekend calls during white-space time is encouraged.
3. At least 3 H&Ps are required of each student during his or her mini-block
4. Topic discussions held in the afternoon while on the mini-block will often be researched and presented by medical students in Pillar 2. Topics will be assigned during the week by the team based on current cases.

During the ward rotation, the students attend Morning Report as well as the noon resident lectures. The students also attend Pediatric Grand Rounds. They are assigned patients in conjunction with the pediatric residents. They complete H&Ps on all their assigned patients, and at least three H&Ps are evaluated by an attending physician or by the senior resident, with feedback provided. The students write daily progress notes and present each of their patients on daily bedside rounds. The entire team, including students, attends daily multi-disciplinary rounds with nursing, social work, case managers, therapists, and nutritionists. Afternoons on the ward are typically spent admitting patients or taking part in topic presentations prepared by residents or students.

Students on the Yankton campus participate in the Yankton Ambulatory Program (YAP) with curriculum very similar to the Sioux Falls and Rapid City campuses. Students in Yankton spend a half day every other week in outpatient pediatrics. They also follow their pediatric patients in the hospital, including newborn nursery, throughout the clinical year. The students in Yankton complete mini-blocks similar to the other campuses, however they pair the mini-block with obstetrics to follow pregnant women and babies while inpatient.

Outside of the mini-blocks during the clinical year, medical students participate in the ambulatory portion of the LIC where they attend pediatric outpatient clinic one half day two times a month, and one half day with a subspecialist two times a month.

**CLIPP CASES (Computer-Assisted Learning In Pediatrics Program)**

The students are also required to complete 15 online, interactive cases created by pediatric educators throughout the nation. These cases are peer-reviewed and frequently updated. The CLIPP cases encompass many topics in general pediatrics and are included below. Each case is 35-60 minutes in length and requires active student participation throughout, with mini-quizzes and question/answer sections. The program allows the education director to review an online database to ensure every student is completing the assigned cases in its entirety.

**Case 1:** Evaluation and care of the newborn infant
**Case 6:** 16-year-old boy's pre-sport physical
**Case 7:** Newborn with respiratory distress
**Case 8:** 6-day-old with jaundice
**Case 9:** 2-week-old with lethargy
**Case 11:** 5-year-old with fever and adenopathy
**Case 15:** 2 siblings with vomiting (4 year old, 8-week old)
**Case 19:** 16-month-old with a first seizure
**Case 20:** 7-year-old with headaches
**Case 22:** 16-year-old with abdominal pain
**Case 24:** 2-year-old with altered mental status
**Case 28:** 18-month-old with developmental delay
**Case 29:** Infant with hypotonia
**Case 30:** 2-year-old with sickle cell disease
**Case 32:** 5-year-old with rash

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**Recommended Reading List for Pediatrics – Pillar II**

Students are encouraged to search for articles published on pediatric resources such as AAP journals through USD Wegner Health Science Information center.

1) Assessment of the Newborn Infant
2) Evaluation and Management of fever in neonate and infants <3 months
3) Congenital Heart Disease in the newborn
4) Pediatric Physical Exam
5) Fever Without a Source in 3-36 month old infants
6) Standard Immunizations for children and adolescents
7) Clinical Assessment and diagnosis of Hypovolemia in children
8) Treatment of Hypovolemia in children
9) Oral Rehydration therapy
10) Common Cold in children – features/diagnosis/treatment/prevention
11) Overview of seizures in pediatrics
12) Overview of the causes of limp in children
13) Suspected heart disease in children and adolescents
14) Approach to the child with anemia
15) Screening tests in children and adolescents
16) Developmental – Behavioral surveillance
17) Etiology and evaluation of failure to thrive in children < 2 years
18) Septic shock: Rapid recognition and initial resuscitation in children
19) Approach to the child with headache
20) Clinical assessment of the child with suspected cancer
21) Evaluation of dizziness in children and adolescents
22) Approach to the child with occult toxic exposure
23) Evaluation of hypertension in children and adolescents
24) Constipation in children: Etiology and diagnosis
25) Natural history of asthma
26) Acquired hypothyroidism in childhood and adolescence
27) Genetics and clinical presentation of classic congenital adrenal hyperplasia due to 21-hydroxylase deficiency
28) Pathogenesis and etiology of unconjugated hyperbilirubinemia in the newborn
29) Acute liver failure in children: Etiology and evaluation
30) Clinical features and diagnosis of inflammatory bowel disease in children and adolescents
31) Evaluation of the child with joint pain or swelling
32) Evaluation of sore throat in children
33) Etiologies of fever of unknown origin in children

Diagnoses each medical student should encounter in General Pediatric Clinic -Pillar 2
- Failure to thrive
- Asthma
- Upper and lower respiratory tract infection/Otitis media
- Gastroenteritis/Constipation
- Ethical issues, advocacy unique to children
- Heart Murmur
- Diabetes mellitus
- Obesity
- Sepsis evaluation/fever
- Hyperbilirubinemia
- Well-baby exam/anticipatory guidance
- Vaccinations
- ADHD/Depression
- UTI
- Common rashes – eczema, viral exanthems
- Common musculoskeletal concerns: DDH, avascular necrosis, SCFE, Osgood-Schlatter disease
- Genetic conditions: Trisomy 21
Top Diagnoses by Specialty in Pillar 2 – Sanford Children’s Specialty Clinic (1/2 day a month)

1) Cardiology
   a. Physical exam of the cardiovascular system
   b. Innocent murmurs
   c. Syncope
   d. Acquired heart disease in children/adolescents
   e. Cyanotic heart disease
   f. Chest pain
   g. Arrhythmia

2) Nephrology
   a. Hypertension
   b. Hematuria/Proteinuria
   c. Nephrotic syndrome
   d. Evaluation of the urinalysis
   e. Bedwetting or daytime bladder control issues
   f. Management of chronic kidney disease

3) Pulmonology
   a. Wheezing/rhonchi
   b. Asthma
   c. Cystic fibrosis
   d. Recurrent cough
   e. Apnea/sleep disorders

4) GI
   a. Constipation/Diarrhea
   b. Failure to thrive
   c. Inflammatory bowel disease
   d. Unspecified abdominal pain
   e. Gastroesophageal reflux
   f. Vomiting
   g. Upper and lower GI bleed
   h. Ulcers
   i. Gastritis
   j. Hepatitis/Jaundice

5) Endocrine
   a. Diabetes mellitus
   b. Short stature
   c. Pubertal disorders
   d. Thyroid disorders

6) Genetics
   a. Minor physical exam findings
   b. Trisomy 21
   c. Turner Syndrome
   d. Marfan Syndrome
   e. Metabolic disorder
7) Developmental
   a. Autism
   b. Developmental delay
   c. Behavior disorders
   d. ADHD
   e. Mental retardation

8) Child Abuse Pediatrics
   a. Child Sexual Abuse
      i. Disclosures
      ii. Normal vs abnormal sexual behaviors
      iii. Genital Anatomy
   b. Child Physical Abuse
      i. Bruises
      ii. Burns
      iii. Fractures
   c. Neglect
      i. Medical Neglect
      ii. Drug Endangered Children
      iii. Exposure to intimate partner violence
   d. Acute Sexual Assault
      i. Rape Kit
      ii. Testing for sexually transmitted infections
   e. Abusive Head Trauma

9) Pediatric Infectious Disease
   a. Recurrent MRSA infections
   b. Fever of unknown origin
   c. Chronic fatigue evaluation
   d. Recurrent fever and recurrent infections
   e. HIV
   f. Musculoskeletal infections

10) Neurology
    a. Headache/Migraine
    b. Seizure
    c. Movement disorders
    d. Tics
    e. Neuromuscular disorder

11) Pediatric Hematology/Oncology
    a. Differential diagnosis of microcytic anemia
    b. Interpretation of newborn Hgb screening results
    c. Therapeutic trial of iron
    d. Indications for blood product administration
    e. Risks/Benefits of transfusion
    f. Features of blood products
    g. Clinical presentation of ITP, differential, treatment options
    h. Evaluation of neutropenia
    i. Peripheral smear review
    j. Clinical presentation of leukemia
    k. Prognostic indicators in childhood ALL
l. Complications of central venous catheters
m. Normal bone marrow review
n. Clinical presentation of brain tumors
o. Differential diagnosis of abdominal masses in children
p. Hematologic manifestations of systemic disease
q. Febrile neutropenia
r. Late effects of cancer treatment
s. Stem cell transplant, mechanism, indications
t. Thrombophilia evaluation
u. Prophylaxis for severe hemophilia
v. Anticoagulation for DVT

12) Pediatric Rehabilitation
a. Cerebral palsy
b. Spasticity
c. Hypotonia
d. Toe walking
e. Hemiplegia

Self-Assessment Services:
The NBME has launched a new Clinical Science Mastery Series. Built to the same content specifications as the NBME clinical science subject examinations, this web-based series provides self-assessments for US and international medical students who want to assess their knowledge of the clinical sciences covered during a clerkship or medical education course. The material presented in these self-assessments is provided by the NBME for educational purposes only. There are two, 50-item self-assessments available for multiple specialties, including pediatrics.

Participants will receive a performance report and a score interpretation guide immediately after completing a self-assessment. The performance report includes an assessment score, a breakdown of the number of items answered incorrectly by content category and the opportunity to review incorrectly answered items. The score interpretation guide includes a conversion table that a participant can use to “translate” the self-assessment score to an approximate score on the clinical science subject examination score scale.

Each self-assessment is available for a fee of $20.00. Students are notified of the availability of the optional self-assessment exams and that the tests are not a required part of the curriculum. Students were very excited to learn of these “practice” tests.

<table>
<thead>
<tr>
<th>Courses in Pillar 2 and credit numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Disciplines</strong></td>
</tr>
<tr>
<td>Family Medicine</td>
</tr>
<tr>
<td>Internal Medicine</td>
</tr>
<tr>
<td>Neurology</td>
</tr>
<tr>
<td>OB/Gyn</td>
</tr>
<tr>
<td>Pediatrics</td>
</tr>
<tr>
<td>Psychiatry</td>
</tr>
<tr>
<td>Surgery</td>
</tr>
</tbody>
</table>

**Grading Criteria for all Pillar 2 Courses:**
A ≥ 90.50%  B = 80.50%-90.49%  C = 70.50%-80.49%
D = 60.50%-70.49  F < 60.50%
Discipline course grades:
*Family Medicine, Internal Medicine, Neurology, Ob/Gyn, Pediatrics, Psychiatry, Surgery*
- 50% Shelf exam for the discipline
- 30% Attending evaluations by physicians in the discipline
- 20% H&Ps within the discipline or Observed encounters (Family Med)

**Competency Course Grades:**

**Patient care**
- 50% This competency on attending evaluations among all disciplines
- 25% H&Ps across all disciplines
- 25% Overall OSCE Scores

**Medical knowledge**
- 70% NBME shelf exams across all disciplines
- 30% This competency on attending evaluations among all disciplines

**Practice-based learning & improvement**
- 50% This competency on attending evaluations among all disciplines
- 25% From triple-jump exercises
- 25% Journal Club

**Interpersonal & communication skills**
- 50% This competency on attending evaluations among all disciplines
- 25% Interpersonal & communication component from OSCE
- 25% Small group facilitator evaluations

**Professionalism**
- 40% This competency on attending evaluations among all disciplines
- 30% Professionalism paper
- 30% Demonstrated professional habits (daily logging of SPEL, timely H&Ps, and reception of feedback)

**Systems-based practice**
- 50% HQIP Project
- 25% From this competency on attending evaluations among all disciplines
- 25% Palliative care sessions

**Other Course Grades:**

**Friday Academy**
- 50% Cultural immersion experience
- 50% Meaningful participation

**Radiology**
- 60% Radiology Exam
- 30% Case studies
- 10% Meaningful participation

**Ethics**
- 65% Online Forum Participation
- 10% Reflective Writing
- 25% Friday Academy Sessions

**SPEL**
Throughout the year, the students document all of their clinical encounters electronically in SPEL. This assures students are fulfilling each of their required encounters for pediatrics. Listed below are
the required pediatric clinical encounters, although most students will have many more than the re-
quired encounters. These may be fulfilled during the pediatric or family medicine clinic/ward.

<table>
<thead>
<tr>
<th>Domain</th>
<th>SPEL Diagnosis</th>
<th>Number Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growth</td>
<td>LGA/SGA (Large/Small for gestational age) Failure to thrive Obesity Short Stature Microcephaly Macrocephaly Constitutional growth delay</td>
<td>1</td>
</tr>
<tr>
<td>Nutrition</td>
<td>Feeding Problem</td>
<td>1</td>
</tr>
<tr>
<td>Development</td>
<td>Developmental Delay</td>
<td>1</td>
</tr>
<tr>
<td>Behavior</td>
<td>Sleep disturbance ADHD (Attention Deficit Hyperactivity Disorder) Eating disorder</td>
<td>1 (under Psychiatry, i.e. ADHD)</td>
</tr>
<tr>
<td>Upper Respiratory Tract</td>
<td>Pharyngitis Acute upper respiratory infection Rhinitis Rhinorrhea (runny nose) Otitis Media</td>
<td>3</td>
</tr>
<tr>
<td>Lower Respiratory Tract</td>
<td>(Croup) Acute Laryngotracheobronchitis Bronchitis Asthma Pneumonia Bronchiolitis</td>
<td>3</td>
</tr>
<tr>
<td>Gastrointestinal Tract</td>
<td>Gastroenteritis Vomiting Diarrhea Appendicitis GERD (Gastroesophageal reflux disease) Pyloric stenosis Peptic ulcer disease</td>
<td>3</td>
</tr>
<tr>
<td>Dermatologic System</td>
<td>Rash Eczema Acne Skin, Other</td>
<td>3</td>
</tr>
<tr>
<td>Central Nervous System</td>
<td>Seizure disorder, epileptic Headache, nonspecific Dizziness Syncope or altered consciousness Meningitis Closed head injury Concussion</td>
<td>1</td>
</tr>
<tr>
<td>Emergent Clinical Problem</td>
<td>Meningitis Shock DKA Trauma Child Abuse SIDS Status Asthmaticus Status Epilepticus</td>
<td>1</td>
</tr>
</tbody>
</table>
### Student Evaluation of Pediatric Education in Pillar 2:

Students rated the pediatric mini-block highly after the initial year of launching the new curriculum. We do have some room for improvement as the students have noted downtime in the afternoons. We are working to increase formal didactic sessions and include residents as teachers. Weekly simulation exercises in the Parry sim center took place during the mini-blocks. Senior residents, faculty, and pediatric clerkship director led these sessions. They were two-hour sessions and included at least two common cases in pediatrics.

### 4th year Pediatric Sub Internships / Pediatric Electives

Pediatric sub internships offered at SSOM include the hospitalist, NICU, and PICU sub internships. The most popular pediatric sub-internship is the hospitalist rotation. Most monthly blocks for this rotation are filled early in the registration process.

Students on the NICU sub internship are assigned patients and take an active role in their patients’ care, as well. Their schedule consists of six twelve-hour shifts per week. The students present their patients on bedside rounds, attend high-risk deliveries, are the primary contact person for families of their patients, and participate in procedures such as circumcisions, lumbar punctures, placement of peripheral IVs, and needle thoracotomies.

The PICU sub internship has proven to be one of the highly rated sub-internships. Student comment on the incredible teaching that they receive and the interesting pathology they are exposed to. Similar to our other sub internships, students are required to work 5-6 twelve-hour shifts, with call days occurring throughout the week.

Many students choose various pediatric specialties for additional experience in their fourth year. The following are a few of the pediatric electives the students choose in their 4th year:

1. Mixed Pediatric Elective (student chooses four 1-week sub specialty clinics)
2. General Pediatrics Elective
3. Pediatric Neurology Elective
4. Pediatric Cardiology
5. Pediatric Hematology/Oncology
6. Pediatric Infectious Diseases
**Pediatric Sub Internship Curriculum:**

Pediatric Sub-Internship Curriculum has been developed through collaboration between the COM-SEP Curriculum Task Force and the APPD Curriculum Task Force. The curriculum currently consists of a set of competency-based learning objectives and issues essential to transition the MSIV role to PGY-1, which have all been defined and validated as relevant by educators from both COM-SEP and APPD. The Sub-internship Curriculum can be accessed by clicking on the following link:


**Pediatric Interest Groups**

The Pediatric Interest Group (PIG) is held several times a year for interested medical students. The initial meeting of the year takes place in the Sioux Falls during mini-block orientation week. This meeting occurred in February and is typically a “Meet and Greet” with the introduction of members of the group.

The group had an event on November 1 of 2018. It took place at the Yankton campus. Eighteen students from Pillar 1 and 2 levels attended the session. It started with a tour of the Yankton campus and at the same time answered some of the questions about Pillar II. The students spent an hour learning and practicing pediatric exam skills with Dr. Randolph Heisinger, a retired Yankton pediatrician, who volunteered to help with the event. They then listened to a lecture covering some basic pediatrics topics such as newborn nutrition, developmental milestones, and newborn reflexes.

Lastly, we went to the newborn nursery for a tour and newborn exam demonstration from Dr. April Willman.

In August 29 of 2019 at the Vermillion, campus took place the event “A day in the life of a pediatrician (generalist or subspecialist)”. Nineteen students from Pillar 1 attended this session. It was a panel with Q&A where Dr. Archana Chatterjee, chief of department of pediatrics; Dr. Joe Zenel, USD Sanford Pediatric Residency program director; and Dr. Fernando Bula-Rudas, pediatric infectious diseases and clerkship director, volunteered to participate.

**Pediatric Resident-Student Mentor Program**

A mentoring program exists between our pediatric residency and medical students interested in pediatrics. Interested medical students and residents are matched up in the fall. This relationship will hopefully foster the medical student’s growth in pediatrics and lead them to choose pediatrics as a specialty. The informal relationship provides counseling and guidance for medical students. Students are encouraged to meet at least quarterly with their mentors. Otherwise, it is mandatory to have a face-to-face evaluation at midterm and final evaluations.

**Careers in Pediatrics**

In 2013, two students chose pediatrics for a medical residency, matching in Utah and Boston Children’s Hospital. In 2015, four students from the 2015 graduating class chose categorical pediatrics and one student chose medicine/pediatrics residencies. In 2016, five students from the graduating class matched in categorical pediatrics, with three matching in Medicine/Pediatric Residencies. In 2017, seven graduating students matched in categorical pediatrics, with two matching in Medicine/Pediatric Residencies. In 2018, two students matched in categorical pediatrics. One matched with the Arizona College of Medicine in Tucson, and the other with Iowa University in Iowa City. In 2019, three students matched in categorical pediatrics. One matched with University of Hawaii in Honolulu, one at Mayo Clinic in Rochester, Minnesota, and the other one with the University of Wisconsin Hospitals and Clinics in Madison, Wisconsin.

Respectfully submitted:
Fernando Bula-Rudas, MD.
## FACULTY GROWTH

### Total Faculty

<table>
<thead>
<tr>
<th>Location</th>
<th>FY08</th>
<th>FY09</th>
<th>FY10</th>
<th>FY11</th>
<th>FY12</th>
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### Total Faculty Graph

- **ACADEMIC**
- **CLINICAL**
- **CROSS**
- **TOTAL**

### Total Faculty by Location Graph

- **SIoux FALLS**
- **BLACK HILLS**
- **YANKTON**
- **OTHER**
- **TOTAL**
## SANFORD SCHOOL OF MEDICINE NEW FACULTY

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<td>Dr. Balay</td>
<td>Kimberly</td>
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<tr>
<td>Ms. Blumhoff</td>
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<tr>
<td>Ms. Bollig</td>
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<tr>
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<td>Shalome</td>
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<td>Dr. Gehrmann</td>
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<td>Carrie Kindopp &amp; Dr. Jennifer Reed</td>
<td>Sanford Children’s Culture of Comfort</td>
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<td>Dr. Megan Meis-Resident</td>
<td>Obvious yet overlooked: Understanding Pediatric Obesity</td>
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<td>Dr. Mark Beard, MD, MHA</td>
<td>Are You a Professor Snape or a Professor Dumbledore? Lessons Learned from Harry Potter and Other Pearls for Clinical Teaching</td>
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<td>Intimate Partner Violence and Alcohol Exposed Pregnancy: Components and Complexities</td>
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<td>Dr. Richard Vo - Resident - A Pediatric Perspective on the Mental Health Crisis</td>
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<td>Carrie Sanderson from USD-Ctr for Prev Child Maltreatment - Building a Sustainable Solution: Creating systems of care in rural South Dakota to end child maltreatment and to foster resilient families</td>
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<td>Don’t Snooze on Generation Z: Addressing the unique health care needs of the next wave of adolescents</td>
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<td>Because All We Have Is Each Other: Why Kids Need Us To Be Effective Advocates</td>
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<td>Dr. Exil and Dr. Ricci</td>
<td>The Evolving Face of Cardiomyopathy Management in Children/ The Evolving Face of Heart Failure Management in Children</td>
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<td>Clinical Guidelines and the US Preventive Services Task Force</td>
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<td>Dr. Jessica Turnbull</td>
<td>Ethical Dilemmas in Pediatric Medicine: Big Problems for Little Patients</td>
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2018 DEPARTMENTAL FACULTY AWARDS

OUTSTANDING MENTOR AWARD—Dr. Julie Mayo
This award is given to a faculty member who has served as an outstanding mentor to other-faculty at the University South Dakota Sanford School of Medicine (SSOM), Dept. of Pediatrics.

MASTER CLINICIAN AWARD—Dr. Laurie Hogden
This award is given to a faculty member who has an outstanding reputation for knowledge of disease processes, skill in the diagnosis and treatment of disease, and care of patients.

DISTINGUISHED RESEARCHER AWARD—Dr. Peter Vitiello
This award is given to a faculty member who has made significant contributions to the advancement of an area of biomedical behavioral, or medical, as evidenced by publications, national/international recognition, sustained record of competitive grant, support by intramural and extramural agencies, and other scholarly activity while at the University of South Dakota Sanford
DEDICATED TEACHER AWARD—Dr. Candice Nelson
This award is given to a faculty member who, through meritorious teaching of biomedical, behavioral, or clinical sciences, has left a mark of excellence and provided students and residents with a critical understanding of the faculty member’s discipline

OUTSTANDING RESIDENT AWARD—Dr. Whitney Rolling
This award is given to one graduating resident who is recognized as the pediatric resident who consistently demonstrated excellence and commitment to Pediatric Medical Education. That award is based on the input of the Pediatrics faculty and residents.
Speaker: E. Steve Roach  
Topic: Tuberous Sclerosis

E. Steve Roach, MD is Professor of Neurology at the new University of Texas Dell Medical School in Austin, TX, where he serves as the Associate Chair for Operations of the Department of Neurology and as Chief of the newly created Pediatric Neuroscience Center of Excellence. Dr. Roach has served as the Editor-in-Chief of Pediatric Neurology for the past six years and is a member of the AAP’s Pediatrics in Review Editorial Board. He has written or edited nine books and has published over 200 articles, commentaries, and chapters. Dr. Roach is a past president of the Child Neurology Society.

Special Grand Rounds 8:00 -- 9:00 AM Health Science Center  
Poster Presentations: 9:00 --10:00 AM Health Science Center
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<td>1</td>
<td>Anshutz, Drake</td>
<td>Predicting Suicidal Ideation from Cyber and Traditional Victimization in Rural Youth</td>
<td>Drake Anshutz, MPH; Jaymi Russo, MEd, Emily Griese, PhD.</td>
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<td>Prinsen, Stephanie</td>
<td>A -phase Approach to Determine the Benefits and Effectiveness of Yoga Intervention in Children with Developmental Coordination Disorder</td>
<td>Austin Krier, SPT-2, Stephanie Prinsen, SPT-2, Dr. Lana Svien</td>
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<td>3</td>
<td>Lee, Lance</td>
<td>Analysis of protein dynamics in mammalian motile cilia and primary ciliary dyskinesia</td>
<td>Casey McKenzie, Jennifer Kuiken, Indra Chandrasekar, and Lance Lee</td>
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<td>4</td>
<td>Anderson, Elle</td>
<td>Dynamic Regulation of Vesicular Trafficking By Altered Sterol Homeostasis: Implications for Cholesterol Synthesis Disorders</td>
<td>Ruthellen Anderson, Harika Vuppula, Jason Kerkvliet, Adam Hoppe, Kevin Francis</td>
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<td>5</td>
<td>Wilson, Ann</td>
<td>Sudden Unexpected Infant Death: Trends in is Causes in South Dakota Raise Hope for its Prevention</td>
<td>Ann L. Wilson, Ph.D. Department of Pediatrics, Brad Randall, MD Department of Pathology USD-SSOM</td>
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<td>6</td>
<td>Vitiello, Peter</td>
<td>Discovery of frataxin mitochondrial network reveals key regulators of Friedreich’s Ataxia</td>
<td>Anja Cucak, Olaksandr Gakh, Danielle May, Rachel Chrisopulos, Seasson Vitiello, Jared Ailts, Gabe Aruai, Etienne Gnimpieba, Grazia Isaya, Kyle Roux and Peter Vitiello</td>
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<td>Jackson, Sarah</td>
<td>Bilateral Femoral Fracture in an Adolescent Male Due to Severe Vitamin D Deficiency</td>
<td>Sarah Jackson, DO, Elizabeth Rubin-Peck, MD. Alaa Al Nofal, MD</td>
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<td>8</td>
<td>Sandeen, Ashley</td>
<td>Now I Know My ABCs, Delirium Prevention and Screening in a Pediatric ICU</td>
<td>Ashley Sandeen DO, FAAP, Holly Madison RN, CPN, CCRN, Krista Reed RRT, Caitlin Leimbach RN, CCRN, Caleb Hentges DO, Amanda Randall RN,</td>
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<td>May, Danielle</td>
<td>Exploring the mechanisms of progeria through comparative BioID</td>
<td>Elise M. Etrheim, Danielle G. May, and Kyle J. Roux</td>
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<td>Negrão de Assis, Pedro</td>
<td>Mesenchymal Stem Cells protect Purkinje cells and recover gait phenotype in a swine model</td>
<td>Pedro Negrão de Assis, Daniel J Kota, Jordan Dykstra, Jacob Cain, Jill Weimer</td>
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<td>Madhusudhana Janga</td>
<td>The genetic and cellular basis of the renal diseases in Alagille syndrome patients</td>
<td>Madhusudhana R. Janga, Malini Mukherjee, Ishara Ratnayake, Jenn de Riso, Indra Chandrasekar, Phil Ahrenkiel, Kameswaran Surendran</td>
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<td>Langin, Logan</td>
<td>Fine motor performance, brain volumetry and metabolism in ClnR07X/R07X nonsense point mutation model for CLN Batten Disease</td>
<td>Kimmo Lehtimäki, Timo Bragge, Jon Brudvig, Tyler Johnson, Derek Timm, Antti Nurmi, Logan Langin, David Pearce, Jukka Puoliväli, Jill Weimer</td>
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<td>Bula Rudas, Fernando</td>
<td>Improving appropriate testing for Clostridium difficile infection: A diagnostic stewardship quality improvement project at Sanford Children’s Hospital</td>
<td>Fernando J. Bula-Rudas MD. USD Sanford Children’s Hospital, Archana Chatterjee MD. USD Sanford School of Medicine</td>
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<td>Swanson, Cristina</td>
<td>Gene therapy rescues pathological deficits, improves behavioral aspects, and prolongs survival in CLN3-, CLN6-, and CLN8-Batten Disease.</td>
<td>Cristina Swanson1, Jacob T. Cain1, Tyler B. Johnson1, Katherine A. White1, Brandon Meyerink1, Samantha S. Davis1, Derek J. Timm1, Shibi Likhite2, Cassandra N. Dennys-Rivers2, Federica Rinaldi2, Dario Motti2, Sarah Corcoran2, Pablo Morales3, Christopher Pierson2, Stephanie M. Hughes4, Stella Y. Lee5, Brian K. Kaspar6, Kathrin Meyer2, Jill M. Weimer1,7</td>
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<td>VanCleave, Ashley Tao, Jianning</td>
<td>Defining the properties of the OS-33 osteosarcoma cell line and the effects of mTORC1 inhibition by rapamycin treatment</td>
<td>Ashley VanCleave1, Mykayla Palmer1,2, Fang Fang1, Haydee Torres1,3, Ross Alan4, Patricia Crotwell Leiferman4, Jianning Tao1,3,5</td>
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<td>Fang, Fang Tao, Jianning</td>
<td>Unlocking Molecular Signatures of Osteosarcoma Subtypes using p53 deficient mouse models</td>
<td>Fang Fang1, Haydee M. Torres1,2, Ashley VanCleave1, Madhusudhana Janga3, Kirby Rickel1,4, Claire Evans5, Jing Zhao6,7, Erliang Zeng8, Jianning Tao1,2,4,9</td>
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<td>17</td>
<td>Simpson, Lucas</td>
<td>Exploring the role of ARID5B in Acute Leukemia</td>
<td>Lucas Simpson1,2, Sam Hudson1, Jenica Christopherson1, Sam Milanovich1,3</td>
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<td>18</td>
<td>Louwagie, Eli</td>
<td>Prenatal diabetes and high-fat diet exposure impair mitochondrial function in adult rat cardiomyocytes</td>
<td>EJ Louwagie1,2, TD Larsen2, ML Baack1,2</td>
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<td>19</td>
<td>Booth, Clarissa</td>
<td>Cln6-BioID identifies the protein cargoes within ER-derived vesicles</td>
<td>Clarissa D. Booth1, Jacob T. Cain1, Tyler B. Johnson1, Jon J. Brudvig2, Katherine A. White1, Rachel N. Laufmann1, Danielle May1, Kyle J. Roux1,2, Jill M. Weimer1,2</td>
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<td>20</td>
<td>Fogerty, Eric</td>
<td>The role of Elf3 in the mammalian renal collecting duct</td>
<td>Eric Fogarty1,2, Madhu Janga1, Malini Mukherjee1, Jenn DeRiso1, Kameswaran Surendran1,3</td>
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This two-day conference is designed to provide an update of current or emerging pediatric health care issues. The lecture format of the conference is designed to address a nursing and care provider audience ranging from inpatient to out-of-hospital care settings. The conference will focus on new and changing diagnosis and treatment technologies including the challenges and rewards of providing nursing care to pediatric patients and their families. We will feature premier speakers discussing medical and surgical related topics across the broad spectrum of pediatric specialty care.

Conference Objectives
- This education offering will enable the pediatric healthcare provider to:
- Examine educational issues in pediatric health care
- Summarize emerging best practice approaches and treatment technologies in the delivery of pediatric health care
- Discuss common concerns related to pediatric nursing and the care of children and families
- Exchange ideas and resources with other pediatric health care providers
Dr. Cico was recruited to Indiana University School of Medicine to serve as the inaugural di-
rector of the Pediatric Emergency Medicine Fellowship Program through the Department of Emergency Medicine at Riley Hospital for Children. He is an Associate Professor of Clinical Emergency Medicine and Pediatrics at Indiana University School of Medicine.

Dr. Cico is an Assistant Dean for Graduate Medical Education for Statewide GME Expan-
sion and Faculty Development at the IUSM. He is involved in efforts to expand IUSM resi-
dency programs throughout the state, as well as providing faculty development opportuni-
ties for Volunteer Faculty at all of the IUSM Campuses. He is a Decision Editor of Academic Emergency Medicine Education and Training Journal, and is the online pediatric editor of Access Emergency Medicine/Tintinalli’s Emergency Medicine. He is also active on several national committees, including the American Academy of Pediatrics Section on Emergency Medicine Fellowship Directors Committee and the Work-Hour and Clinical Requirements Subcommittees.

Dr. Cico completed his undergraduate degree in Honors Biology at Wright State University and the obtained his Doctor of Medicine degree at the University of Cincinnati College of Medicine. He did a dual residency in Internal Medicine and Pediatrics at Rush University Medical Center in Chicago, and then completed his fellowship in Pediatric Emergency Medi-
cine at the University of Pittsburgh School of Medicine and the Children’s Hospital of Pitts-
burough. While an attending physician in the Departments of Emergency Medicine and Pediatric at Vanderbilt University, he started work on his Master’s in Medical Education (MEd) through the University of Cincinnati Colleges of Medicine and Education, completing his de-
gree in 2012. He lectures nationally on educational topics and ways to improve your teach-
ing strategies. He is board certified in pediatric emergency medicine and general pediatrics. When he isn't working, Dr. Cico enjoys running, playing tennis, hiking, traveling (especially to Hawaii and Europe), and amateur wine-tasting.
SANFORD CHILDREN’S FACULTY SPEAKERS

Mir Hyder Ali, MD
Pediatric Critical Care
Sanford Children’s
Sioux Falls, SD

Carrie Kippes, MD
Developmental and
Behavioral Pediatrics
Sanford Children’s
Sioux Falls, SD

Amy Kelley, MD
OB/GYN
Sanford Women’s
Sioux Falls, SD

Daniel Mark, MD
Pediatric Palliative Care
Sanford Children’s
Sioux Falls, SD

Kurt Eeg, MD
Pediatric Urologist
Sanford Children’s
Sioux Falls, SD

Justin T. Kastl, MD
Pediatric Nephrologist
Sanford Children’s
Sioux Falls, SD

Brooke Jones, MD
Child Abuse and Neglect
Specialist
Sanford Children’s
Sioux Falls, SD

Carrie Brower-Breitwieser, MD
Clinical Director, Pediatric
Feeding Disorders
Sanford Children’s
Fargo, ND