DEPARTMENT OF PEDIATRICS

2019-2020 ANNUAL REPORT

December 2020
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RESEARCH AND SCHOLARSHIP DAY/ABSTRACT PRESENTATIONS Cancelled
SANFORD BLACK HILLS SYMPOSIUM Cancelled
Welcome to the 2019-2020 Department of Pediatrics Annual Report! As Interim Chair, I am honored to share with you the accomplishments and concerns of the department during our time of the COVID-19 pandemic. Despite the “wrench in the works” spread of a novel virus, our Faculty and Residents continued their teaching, service, and scholarly activities, contributing to the excellence expected of our medical school.

Highlights within these pages include promotions and awards; update of the Pediatric Residency program and departmental divisions; and the Research and Scholarly activities of the Department of the School of Medicine over the past year.

As with any year there was the addition of new faculty members and the departure of respected colleagues. Thanks to the pandemic, there were a number of cancellations of departmental conferences and activities. Despite the viral interruption, our department continues to support the medical education mission of the medical school and advance the cause of pediatric education.

This year congratulations go to Dr. Michelle Schimelpfenig who received the Departmental Dedicated Teacher Award and Dr. Kameswaran Surendran who received the Departmental Distinguished Researcher Award.

Dr. Archana Chatterjee, our former Department Chair, departed April 6, 2020 to become the Dean of the Chicago Medical School at the Rosalind Franklin University of Medicine and Science. We wish her success. As she has stated in past annual departmental reports, “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.” That belief continues and I thank the medical students, residents, faculty and staff in the Department who continue to support our educational curriculum and scholarly pursuits.

Finally, our Staff, Department Manager Ms. Janet Reider and Medical Education Coordinator Ms. Angie Tuffs, are truly dedicated and make our department successful. I express my heartfelt thanks to both for warmly welcoming me to the role of Interim Chair and especially to Ms. Reider for putting together this report.

Sincerely,

Joseph A. Zenel, MD
Professor and Interim Chair, Department of Pediatrics
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.
DIVISION CHIEFS

Alaa Al Nofal, MD
Endocrinology

Fernando Bula-Rudas, MD
Infectious Diseases

Bonnie Bunch, MD
Neurology

Laura Davis-Keppen, MD
Genetics

Amy Elliot, PhD
Avera Research

Nancy Free, MD
Child’s Voice

Carl Galloway, MD
Hospital Medicine

Carrie Kipes, MD
Developmental and Behavioral

George Maher, DO
Hematology-Oncology
**Sanford School of Medicine New Faculty**

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PEDIATRIC MENTORING COMMITTEE

Jennifer Giancola, PhD
Organizational Trainer and Consultant

Nofil Arain, MD

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

KayeLyn Wagner, MD
Associate Program Director

Kelley Yseth
Program Coordinator
2020 RESIDENCY PROGRAM

For the academic year 2020-21 we matched 6 categorical residents. One is from a LCME accredited school and two are from AOA accredited schools, allocated in the United States, and three are from ECGMG certified schools.

This past year we had 385 applicants, of whom 99 interviews were offered. We interviewed 64 applicants from 16 allopathic schools, 11 osteopathic schools and 11 foreign countries.

The program is now 10-years-old. Over this time, we have recruited 30 allopathic and 29 osteopathic medical students from 11 osteopathic schools and 15 allopathic schools from 23 states in the US and 1 MD from Ecuador and 2 MBBS from India. Approximately half of our graduates now practice in South Dakota and North Dakota.

Program accomplishments this past year

1. We graduated our seventh residency class this June 30, 2020 (6 residents). Four residents went into general pediatrics practice: one for the US Air Force at Keesler Air Force Base in Biloxi, Mississippi, one in private practice in Fort Madison, Iowa, one in Farmington, New Mexico and one at Sanford Health, Fargo, North Dakota. One resident became our chief resident who was then hired to become a hospitalist at Sanford Children’s Hospital in Sioux Falls. Finally one resident entered a pediatrics endocrinology fellowship at the Mayo Clinic.

2. Five of the six 2019 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 91% and our overall resident passing rate to 94%. Of note, the national passing rates for pediatric residency programs are 87% and 96% respectively. Our program median score (198) is exactly at the national median (198), which is shown below. Our graduates’ examination performance compared to the nation for the past 7 years:

![2019 Accredited Categorical Pediatrics and Other Combined Training Program Median Scores](image)
3. Two of our current third-year residents are applying for fellowships (pediatrics emergency medicine, pediatric hematology oncology). One resident already has a commitment to a general pediatrics practice in Wisconsin. Another resident is seeking practice in outpatient general pediatrics. One resident is seeking a position in pediatrics emergency medicine. The last resident has a US Air Force commitment. A seventh resident was dismissed from the program on October 26, 2020.

4. The ACGME gave the residency program continued accreditation in March 2020 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 four times in a row now, with 5 such letters over a 10-year span.
   a. There are no citations at present.

5. This year the ACGME had a focused site visit of the program on October 12 because of a resident complaint and resident & faculty survey results that suggested there might be issues. No immediate major concerns were raised by the focused site visit. The ACGME Pediatrics Review Committee meets in January 25-27 and will decide on the outcome of the site visit at that time. A GME Special Review suggested program improvements (See 2020-21 Plans)

6. Yoga classes and cooking classes for residents and faculty were held throughout the year, arranged by the Residency Wellness Committee.
The residents had an overnight trip to the State Capitol in Pierre, SD to partake in Children’s Day at the Capitol and to lobby against a proposed law to make the medical referral of a transgender child a class 2 misdemeanor. A representative from the AAP Legislative Committee also attended. Below is an excerpt from the American Academy of Pediatrics Newsletter of the event.

7. The residents had an overnight trip to the State Capitol in Pierre, SD to partake in Children’s Day at the Capitol and to lobby against a proposed law to make the medical referral of a transgender child a class 2 misdemeanor. A representative from the AAP Legislative Committee also attended. Below is an excerpt from the American Academy of Pediatrics Newsletter of the event.
Planned changes for 2020-21
- Timely feedback in each rotation (Feedback directly between learner and attending verbally and then documented formally in NI)
- Standardize interaction with subspecialists/consults
- Build goodwill between faculty and residents (retreats)
- Residents show appreciation for faculty
- Faculty should make sure curriculum/teaching is robust to address concern residents are “not ready for independent practice.”
- Program and chief resident create lecture series on “Interpersonal and Communication Skills” (including conflict management)
- Reexamine didactic schedule for efficiency, value, protected time (minimize interruptions).
- Pursue board-certified Emergency Medicine and Adolescent Medicine pediatricians
- Residents develop “resident handbook” for each rotation
- Residents engage in more teaching and “senioring.” (Seniors take a more formal role in teaching noon conferences and helping junior residents learn specifics about each rotation and attending)

Resident Accomplishments

Peer-reviewed Publications
- Jackson S. Bilateral femoral fractures in an Adolescent Male due to Severe Vitamin D Deficiency. South Dakota Journal (accepted)

National/Regional Posters
- Dr. Emelia Stille presented on “Lactational Exposure to High-Fat Diet and Metformin Incites Myocardial Lipid Accumulation in Adult Male Offspring” at the Midwest Society for Pediatric Research Virtual Scientific Meeting on Friday, October 9.

Committees
- USD SSOM GME Committee – Jessica Barnes DO

Joe Zenel, MD; Residency Program Director Accomplishments
- Interim Chair, Department of Pediatrics, University of South Dakota Sanford School of Pediatrics
- Editor-in-Chief, Pediatrics in Review, American Academy of Pediatrics, January 2013 – present

Peer-reviewed Publications

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
Committees--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
- Graduate Medical Education Committee, August 2008 – present

Committees--Sanford Health
- 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

Ashlesha Bagwe, MD
First Year

Kyle Baum, DO
First Year

Anane Buenaventura, DO
First Year

Shehheet Mangat, MD
First Year

Ana Nevarez Gilbert, MD
First Year

Nicole Zimmerman, MD
First Year

Jade Arrobas, DO
Second Year

Ashley Coaston, DO
Second Year

Anna-Lisa Martino, MD
Second Year

Nathaniel Nelson, DO
Second Year

Emelia Stille, DO
Second Year

Jessica Barnes, DO
Third Year

Rebecca Goethmann, MD
Third Year

Joseph Presson, DO
Third Year

Taryn Raschein, MD
Third Year

Tara Robare, DO
Third Year

Kristin Stulve, DO
Third Year

Aimee Koenig, MD
Administrative Chief
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 2
- Caleb Wenz
- Natalie Walter
- Casey Hanson
- Stephanie Kazi
- Justin Brown
- Jordan Dykstara
- Kindra Holsing
- Rebecca Glanzner
- Thomas Vierhout
- Elise Blaseg
Pillar 3
- Tyler Sternhagen
- Kayla Muncher
- Ethan Nemmers
- Sarah Scott

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: Caleb Hentges – PGY2
- Resident: Tara Robare – PGY2
- Resident: Jessica Barnes - PGY2
- Resident: Joseph Presson – PGY2
- Resident: Rebecca Gerhmann – PGY2
- Resident: Kristin Stuive – PGY2
- Resident: Taryn Raschein – PGY2
- Resident: Nathaniel Nelson – PGY2
- NP Student: Kimberly Strebell
- Adult Cardiology Fellows (NA, EB, TS, BW): Dr. Maheedhar Dedela

CME
Lectures
- Various topics in pediatric echocardiography for sonographers (TS, BW, NA, EB)
- Adult Congenital Heart Disease, Part II
- Adult Congenital Heart Disease, Part I

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

Scholarly Activity
Publications
- Kimberly Strebell – NP Student

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)
- 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)
- 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

Child’s Voice Department Members: 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
- Pillar I students spend days at Child’s Voice.

Pillar 2
- 1 Pillar 2 student 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.

Healthcare Profession Students
- Physician Assistant USDSSOM classes receive 8 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: 3 hours didactic training on child abuse and neglect, mandatory reporting
- Lake Area Technical Nursing Students – Clinic Preceptorship Site, Child’s Voice Outreach, 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
- RISE UP student from LEND Program provided internship at Child’s Voice
- BSW student provided internship at Child’s Voice

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

Lectures
- Four noon lectures on child maltreatment topics

Mentoring
- Development of Children’s Day at the Capitol in partnership with SD AAP Chapter and Center for the Prevention of Child Maltreatment – residents instructed re advocacy and legislation.

CME
- Child Maltreatment Grand Rounds: quarterly presentations on topics pertinent to child maltreatment awareness, response, and prevention.
  - 19th Annual Community Response to Child Abuse – CME presentations by Child’s Voice:
    a. No Hit Zone
    b. Understanding and Addressing Maltreatment of Children with Disabilities
    c. ABC’s of CAC’s and Child Maltreatment
- Sanford Black Hills Pediatric Symposium – CME Presentations by Child’s Voice:
  a. Abusive Head Trauma
  b. Child Sexual Abuse

Clinical Service
- Watertown Outreach Clinic: Child’s Voice services are provided at Sanford Clinic in Watertown, SD in a regional multidisciplinary team setting. 2019-2020 is the third year 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 and conducting investigations. 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.
- Refinement 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 and participation in the state task force to address needs in South Dakota.

**Volunteer Service**  
**Community**
- Center for the Prevention of Child Maltreatment- Board Member  
- Child Advocacy Centers of South Dakota- Board Member  
- East River Infant and Child Mortality Review Committee + Task Force Steering Committee  
- 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.

**Trainings 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**

**Professional Membership**
- Center for the Prevention of Child Maltreatment- Board Member  
- Child Advocacy Centers of South Dakota- Board Member  
- East River Infant and Child Mortality Review Committee + Task Force Steering Committee  
- 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. The program provides staff tools to deescalate and respond to aggression in the workplace, and education regarding positive parenting techniques, and the negative effects of corporal punishment.  
- Child’s Voice is a No Hit Zone; instruction and support provided to agencies/departments instituting NHZs.

**ENOUGH Abuse Campaign**
- Child’s Voice trainers provide educational information to professionals, parents, youth, and other concerned individuals regarding preventions of sexual abuse.
ACEs and Resiliency

- Child’s Voice trainers provide education regarding adverse childhood experiences and resilience to professional and community audiences.
Critical Care
Dr. Jody Huber, Division Chief
Division Members
Joe Segeleon
Mir Ali
Benson Hsu
Lesta Whalen
Gokhan Olgun
Ashley Sandeen

Teaching
Medical Students
Pillar 1
- Benson Hsu: Cardiovascular Team Based Learning (TBL): Shock
Pillar 2
- Benson Hsu: Triple Jump
- Jody Huber: Friday Academy
Pillar 3
- Lesta Whalen: Teaching during rounds (chalk talk), scheduled lectures while on elective
- Jody Huber: PICU Sub-Internship Rotation Director
- Benson Hsu: Transitioning to Residency Morning Report, Transitioning to Residency Journal Club, Transitioning to Residency Lecture: Patient Safety
- Mir Ali: Involved with teaching medical students rotating in PICU
- Joe Segeleon: HRO Characteristics. Presented to Health Policy Medical Student Focus Group. Sanford School of Medicine at the University of South Dakota. Sioux Falls, South Dakota. February 2020

Mentoring
Ashley Sandeen
- Morgan Sorenson, MSIII
- Natalie Walter, MSIIIV
Benson Hsu
- D. Arendt (M4) Scholarship Pathway
- D. Hegdahl (M4) Medical Student USD
Jody Huber
- Karina Ortman, MSIII
Mir Ali
- Laura Rezac, Medical Student USD
- Emily Yoon, Medical Student USD
- Kayla Munger, Medical Student USD
- Ali Haines, Medical Student USD
- Mentored the above mentioned students in creating and implementing this research survey designed to evaluate parent/guardian satisfaction with Nitrous oxide gas 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 were surveyed and their satisfaction with the child’s level of comfort, procedure recovery time, and overall satisfaction was assessed. Each of these components was rated on a scale of 1-10 with 1 being dissatisfied and 10 being satisfied. The project collected data on approx. 50 patient encounters and analyzed data. The results were used to conclude Nitrous oxide is good sedative to help improve patient satisfaction during pediatric sedations.

Healthcare Profession Students
Joe Segeleon
Panel Discussion. High Reliability Characteristics and SAFE. Nurse Residency program.
Undergraduate Students
Benson Hsu
SDSU Freshman Seminars in Mathematics: Analytics for the Healthcare Graduate

Graduate Students
Benson Hsu
U of Pennsylvania Wharton School of Business: Healthcare Analytics

Residents
Lectures
Ashley Sandeen
- Pediatric Resident Core Curriculum 08/2019, 08/2020--Respiratory Failure
- Case-based lectures in the PICU
Benson Hsu
- Bedside Chalk Talk on PICU/Sedation Rotations
- Core Lectures: Mechanical Ventilation - Let's Build a Vent
Lesta Whalen
- Core Lecture series lectures – toxicology, TBI, ECMO
- Attend PICU morning report 1-2x/month
- PICU Mock Code
Gokhan Olgun
- PICU Resident Talks
- Pediatric Airway Emergencies and respiratory failure
- Pediatric Shock
- Sedation and Analgesia
- Status Epilepticus
- Diabetic Ketoacidosis
- Traumatic Brain Injury
- Status Asthmaticus
Jody Huber
- PICU Rotation Director
- Pediatric Residency Associate Program Director
- Senior Orientation, June 2019
- Mock Codes
- Noon Lectures:
  - “Shock”
  - “Upper & Lower Airway Disease”
Mir Ali
- Pediatric Shock
- Sedation and Analgesia
- Status Epilepticus
- Traumatic Brain Injury
- Blood Gas Interpretation
- Acute Respiratory Failure
- Mechanical Ventilation
- Toxidromes
Joe Segeleon
- Resiliency Panel. Resident Lecture Series. Sanford Medical Center. Sioux Falls, South Dakota. September 2019
Mentoring
Ashley Sandeen
Sarah Jackson, MS3

Lesta Whalen
Mentor to one 2nd year resident

Jody Huber
Bryan Blacker, PGY-3
Caleb Hentges, PGY-2

CME
Lectures
Benson Hsu
• Pediatric Flight Nurses: Shock
Lesta Whalen
• Flight team lectures – Metabolic crisis, near drowning, Pediatric Arrhythmia
• RN - ABG and X-ray Interpretation
Jody Huber
• Sanford ED Nursing Orientation: “Pediatric Upper & Lower Airway Disease” and “Status Epilepticus”
• ECMO Educational Series: “Disease Pathophysiology in ECMO: Respiratory and Cardiac Disease”
• Critical Care Nursing Education: “Blood Gas Interpretation & Radiology for Pediatric Critical Care Nursing”
• Pediatric Flight Nurse Education Series: “Acute Liver Failure” and “Heatstroke”
• Pediatric Nursing Education Series: “Congenital Heart Disease”
Mir Ali
• 9/6/20-Presented CME lecture on Traumatic Brain Injury for Pediatric Flight Team Programs
Ashley Sandeen
• Brave Enough Summit 09/2020
• SAFE Trainer training 02/2020
Lesta Whalen
• ECMO CME lectures and wet labs monthly for MD, RN and RT.
Mir Ali
• ELSO Conference -online
• ACLS Certification

Scholarly Activity
Publications
Ashley Sandeen
Benson Hsu
Peer Reviewed Publications


Papers and Commentaries


Peer-Reviewed Abstracts


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)

• Huber JN, Olgun O, Whalen LD, Sandeen AR, Rana DT, Zenel JA. Learner Preference of Schedule Type Improves Engagement of Pediatric Residents: Results of a Mixed-Methods Analysis. Medical Science Educator. Accepted, awaiting Publication.

Gokhan Olgun


Jody Huber


Mir Ali

Manuscript Submission

“EVALI: Evolving Threat to Healthy Teens”.

• Case report : Mentored Pediatric resident Jessica Barnes in compiling and submitting the above mentioned case report “EVALI: Evolving Threat to Healthy Teens”. The manuscript has been accepted by South Dakota Medical Journal and awaiting publication.

Grants
Awarded
Gokhan Olgun
2020-present University of South Dakota Sanford School of Medicine Training Aware (T-35 CHIRP) “Implementation and Assessment of a Hospital-Wide Pediatric Sepsis Early Warning Tool” Grant 5T35HD088383-03
Source: University of South Dakota Sanford School of Medicine
PI: Gokhan Olgun, MD & Jody Huber, MD
Students: Amber Veldman MS2, Shelley Feng MS
Role: Mentor
Dates: 8/17/2017 – 8/31/2020

Presentations
National
Benson Hsu
- Leading in a Time of Crisis: Equity Centered COVID-19 Recovery; Aspen Institute, Washington DC
- Clinical Effectiveness Research Innovation Collaborative; National Academy of Medicine, Washington DC.

Regional
Lesta Whalen
- Life Saving Technology: Science and Stories of ECMO
- Sanford PROMISE: Teen Science Café Lecture
- Congenital Heart Physiology: Pediatric Nursing Educations Series
- ECMO for the Neonate: Perinatal, Neonatal and Women’s Conference

Gokhan Olgun
- Islamic Faith and End of Life. Life Cycle South Dakota Quarterly Conference Call. Sioux Falls, SD. 2020

Joe Segeleon

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

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

Benson Hsu
- Shock and ECMO; SD EMS Annual Conference, Sioux Falls, South Dakota
Lesta Whalen
- Elgersma B, Heiberger A, Huber J, Whalen L. Effects of Clonidine on Dexmedetomidine Wean-
ing Following Long-term Sedation in Pediatric Patients.
- Accepted to Sanford PI Fair, South Dakota Society of Health System Pharmacists and Midwest Pharmacy Residency Conference: All Cancelled due to Coronavirus

Clinical Service
New Clinics/Programs/Outreach
Mir Ali
- Involved in planning & creating policies for new program (Nurse Administered Nitrous Oxide sed-
dation

Innovative Clinical Services
Ashley Sandeen
- ABCDEF quality initiative in the Pediatric ICU - implementation of 3 new protocols
  a. Delirium Screening (CAPD)
  b. Extubation readiness testing protocol
  c. Early Mobility protocol

Lesta Whalen
- Assist with development of adult ECMO program – Ongoing

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

Jody Huber
- 10 weeks of Sedation Service & 8 weeks of inpatient PICU service duty with approximately 50 in-
house calls per year.

Mir Ali
- Clinical Inpatient service weeks in pediatric ICU
- Outpatient Sedation service weeks
- Administration – Director pediatric Outpatient sedation services
- Pediatric resident education

Volunteer Service
Medical School
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

Lesta Whalen
- Medical school admission committee – 3-year appointment
- WIMS: Mentoring Co-Chair

Jody Huber
- GME Committee
- Faculty Development Committee
- Medical Education Committee

Hospital/Clinic
Ashley Sandeen
- Resident Wellness Committee
- PICU ABCDEF Committee
- Sanford Quality Council

Lesta Whalen
- Critical Care Committee
- ECMO Director
Gokhan Olgun
- Infection Prevention Committee Member
- Airmed Sioux Falls Pediatric Transport Director

Jody Huber
- Sepsis QI Project
- CDI Pediatric Physician Lead

Mir Ali
- Director – Pediatric Outpatient Sedation Department
- Pediatric Care Monitoring Committee
- Anesthesia Monitoring Committee
- Attendance at Provider Meetings, Faculty meetings and Grand rounds
- Continued education for Nitrous machine use to pediatric outpatient nursing staff.
- Involved with PICU PI projects

Joe Segelon
- Continue in role as VPMO of pediatrics. On July 1 assumed role of Executive Director of High Reliability and Quality Improvement. Responsibility for SAFE implementation and deployment as well as additional participation in risk events analysis.

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

Lesta Whalen
- USD- WIMS Steering Committee- Mentoring Co-Chair

Gokhan Olgun
- Student Progress and Conduct Committee Member 2018-2020

Professional
Ashley Sandeen
- Abstract reviewer- AAP SOCC, 2019, 2020

Benson Hsu
- Aspen Global Leadership Network (AGLN)
- Methods and Data Council, AcademyHealth
- MCKKAP Committee, Pediatrics, Society of Critical Care Medicine (SCCM)
- SCCM COVID-19 Second Wave Planning Committee, Society of Critical Care Medicine (SCCM)
- Chair-Elect of Executive Committee, Section on Critical Care (SOCC), AAP
- Committee on Hospital Care (COHC), AAP
- Disaster Preparedness and Response Champion, South Dakota Chapter, AAP

Lesta Whalen
- SCCM Pediatric Online Module Development
- Program improvement SCCM
- Article reviewer Pediatric Critical Care Medicine Journal
- Sanford Critical Care Committee
- Sanford Smart Pump Committee
- SMART Women Secretary
- ELSO Adult Assessment Question Writer

Jody Huber
- SCCM Critical Care Congress Abstract Reviewer
- APA Educational Scholar’s Program Faculty Advisor, Cohort 9

Mir Ali
- Member of Society of Pediatric Sedation
- Member of Society of Critical Care Medicine
Community
Ashley Sandeen
SMART Women- Founding Member
Mir Ali
Attendance at Sanford SAFE training
Teaching PALS courses at Sanford learning center.

Other
Benson Hsu
Journal Reviewer
- Ad hoc Reviewer, Pediatrics
- Ad hoc Reviewer, HealthCare: The Journal of Delivery Science and Innovation
- Ad hoc Reviewer, BMJ (British Medical Journal) Open
- Ad hoc Reviewer, NEJM (New England Journal of Medicine) Catalyst
- Ad hoc Reviewer, Pediatrics in Review
- Ad hoc Reviewer, Hospital Pediatrics
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
- Sioux Falls TEDx Speaker
- Presidential Citation, Society of Critical Care Medicine
- Aspen Health Innovators Fellow, Aspen Institute
Administrative
- Senior Advisor Data/Analytics, Sanford Health Plan
Developmental and Behavioral
Dr. Carrie Kippes, Division Chief
Division Members
Erin Schroeder, APRN-CNP, Noelle McGee, APRN-CNP

Teaching
Medical Students
Lectures
Developmental Milestones Lecture 5/26/20

Residents
- PGY-2 Developmental Pediatrics Rotation
- USD Child Psychiatry Fellow Rotation
Lectures
- 2/26/20 Noon Conference: “Global Developmental Delay and Intellectual Disability”
- 4/16/20 Noon Conference: “ADHD”

Clinical Service
New Clinics/Programs/Outreach—Multidisciplinary Team Clinics
- LEND Clinic with USD Center for Disabilities
- Myelo Clinic/Spina Bifida Clinic at SCSC
- Autism/ADOS Clinic at SCSC
- New Early Childhood Team clinic at SCSC—started 9/2020
- Early Childhood Team Clinic at Lifescape

Volunteer Service (Committees, leadership positions, etc.)
Hospital/Clinic
Employee Appreciation Committee

Community
Testimony re: Early Child Learning Bill with SD State House Education Committee 2/24/20
**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 1**
  - Rebecca Buechler
- **Pillar 2**
  - Nicole Rogers
  - Kelsey Westad
  - Monica Bailey
  - Morgan Schreiver
  - Jack Vogel
  - Victor Georgiev
  - Brooklyn DeVries
  - Zack Dockter
- **Pillar 3**
  - Elise Blaseg

**Healthcare Profession Students**
- Karen Hanisch
- Pharmacy Students
  - Aerial Wenzel
  - Khia Warzecha
  - Shelby VanDriel
  - Shanee Hanning
- SDSU Graduate Nurse Practitioner Student
  - Ephram Bejiga
  - University of Nebraska Medical Center Advanced Practice Nurse Practitioner Student
    - Janelle VanDeGriend

**Residents**
- Jade Arrobas
- Anna-Lisa Martino
- Emelia Stille
- Ashiesa Bagwe
- Shehbeet Mangat
- Kyle Baum
- Jessica Barnes

**Lectures**
Dr. Al Nofal

Dr. Shelso
- Abnormal Puberty: CFM residents 11/26/19
- Hypoglycemia: Ped residents 12/16/19
- Disorders of Sexual Differentiation: Ped residents 12/20/19
Dr. Griffin

- “The Sanford PLEDGE Study” Sanford Pediatric Resident Lecture, 3 September 2020.

Graduate Students
Dr. Griffin
- Genetics of Human Disease: Lectures and discussion sections on genetics of diabetes. April 2016, Nov 2017, Nov–Dec 2019

Scholarly Activity

Publications
Dr. Griffin

Grants
Awarded
Dr. Griffin
- “Sanford PLEDGE [Sanford Project Leveraging Differential Gene Expression against Type 1 Diabetes].” 2020–2022.
  - Helmsley Charitable Trust: $1,307,375
  - Sanford Health: $1,088,000
  - Total Direct Costs: $340,550

Submitted
Clinical Research Protocols [all section members are investigators on these diabetes trials]
Active Protocols
- “EXTEND: Preserving Beta-Cell Function with Tocilizumab in New-onset Type 1 Diabetes” NCT02293837. Immune Tolerance Network. Griffin Site PI, November 2014 – Present
- “Type 1 Diabetes Extension Study (TIDES)” NCT02734277. Immune Tolerance Network. Griffin 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. Griffin 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. Griffin Site PI.
- “PROTECT: Provention Bio’s T1D Trial Evaluating C-Peptide with Teplizumab” NCT03875729. Provention Bio, Inc. July 2019 – Present, Griffin Site PI.
- “Sanford PLEDGE [Sanford Project Leveraging Differential Gene Expression against Type 1 Diabetes].” Helmsley Charitable Trust and Sanford Health. July 2020 – Present, Griffin Protocol PI.

Protocols in start-up
- “TN-25: RAPTOR: Rituximab Followed by Abatacept for Prevention or Reversal of Type 1 Diabetes” NCT03929601. Diabetes TrialNet. Study-wide enrollment suspended pending COVID-19 considerations. Griffin Site PI.
- “TN-22: Hydroxychloroquine in Individuals At-risk for Type 1 Diabetes Mellitus” NCT03428945 Diabetes TrialNet. Opening Fall 2020 Griffin Site PI.

Presentations
National
Dr. Griffin
• “Bridging The Gap: Private–Non-Profit Partnerships to Advance Preclinical Drugs into Clinical Trials” Antigen Specific Immune Tolerance Summit 2020, Boston, MA, 26 February 2020

Clinical Service
New Clinics/Programs/Outreach
• Watertown, Aberdeen and Dakota Dunes, SD

Innovative Clinical Services
Dr. Griffin
• Population level screening for T1D autoimmunity (PLEDGE study)

Volunteer Service
Medical School
Dr. Al Nofal
• Pediatric Clinical Competency Committee at Sanford Pediatric Residency Program
Dr. Griffin
• University of South Dakota, Department of Pediatrics Research and Education Committee, January 2014–Present
• USD Pediatrics Mentoring Committee: July 2015–Present

Hospital/Clinic
Dr. Al Nofal
• Sanford Children's Specialty Clinic Executive Committee
• Sanford Children's Specialty Clinic Employee Appreciation Committee
Dr. Griffin
• 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 Enterprise Diabetes Council: 2016–Present
• Sanford Research Pediatric COBRE Internal Advisory Committee: 2016–Present
• Sanford Research Population Health COBRE Internal Advisory Committee: 2016–2019
• Formal mentor of faculty: Santiago Valdez, MD, 2019–Present

Community
Dr. Griffin
• City of Sioux Falls Bicycle Committee: 2014-Present.
• Safe Cycling Instructor (one of 5 in SD certified by the League of American Bicyclists): 2014-Present.

Professional
Dr. Griffin
• (Lawson Wilkins) Pediatric Endocrine Society: Co-Chair Diabetes Special Interest Group 2018–Present.
- Helmsley Charitable Trust / Milken Institute: advisory board member for Type 1 Diabetes Screening program development.
- Ad Hoc Peer Review for Journals
- Endocrine-Related Cancer: 2004 – Present.
- Molecular Endocrinology: 2009 – Present.
General Pediatrics
Aaron Zylstra, Division Chief

Division Members
MB2: Scott Henry, Barry Bauer, Michelle Schimelpfenig, Rita Rabenberg and Gulsah Olgun.
69th/Louise: Donna Weinacht, Candice Nelson, Laura Whittington and Aaron Zylstra.
32nd/Ellis: 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 pediatrics teach students during Pillar 2. The list includes Reece, Larson, Nelson, Zylstra, Whittington, McKercher, L Bauer, Mailloux, VanBeek, Haggar, Carruthers, Henry, Schimelpfenig
Pillar 3
- Dr. Haggar taught Development to the medical students. Dr. Zylstra, Whittington, Nelson, Carruthers, McKercher and Haggar have taught Pillar 3 students

Lectures
- Dr.s Schimelpfenig and Haggar gave lectures

Mentoring
- Dr. Schimelpfenig mentors medical students

Healthcare Profession Students
- Dr. Whittington, Zylstra, VanBeek, Haggar, Mailloux, McKercher, Schimelpfenig, Larson, B Bauer, Henry, L Bauer 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, E. Bauer, Schimelpfenig, and Ashbaugh regularly give noon lectures on Primary Care pediatric topics to the pediatric residents.

Mentoring
- Dr. Mailloux was mentoring Dr. Nate Nelson.
- Dr. Schimelpfenig is mentoring Dr. Rebecca Gehrmann.

Rotations
- Dr. Nelson is Director of Sanford Children’s Hospital Pediatric Residency Continuity Clinic. Dr. Zylstra, Dr. Weinacht, Dr. Nelson and Dr. Whittington regularly supervise residents in this rotation.
- Dr. Mailloux is Director of Sanford Children’s Pediatric Residency Outpatient rotation PGY-1. Pediatricians at MB2 26th/Sycamore, and 32nd and Ellis supervise residents on this rotation.
- Dr. Olgun is Director of Sanford Children’s Pediatric Residency Newborn Nursery Rotation. All the general pediatricians supervise residents on this rotation.
- Dr. Nelson is Director of Sanford Children’s Pediatric Residency Outpatient rotation PGY-3. Dr. Zylstra, Dr. Weinacht, Dr. Nelson 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, 26th/Sycamore, and 32nd and Ellis general pediatricians regularly supervise residents on this rotation.

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. Carruthers is on the Alumni Relations Council.
• Dr. Schimelpfenig is on the medical education, Integration Sub-Committee, clerkship director’s committee and is the Pillar 3 Director and Dean of the Sioux Falls Campus.

Hospital/Clinic
• Dr. Weinacht is a member of the Sanford Hospital/University of South Dakota Pediatric Residency Competency Committee
• Dr. Zylstra is Chief of Pediatrics for the Medical School
• Dr.s Nelson and Dr. Zylstra are on the Physician Executive Council for Sanford
• Dr. Nelson is on the Clinic Executive Committee
• Drs. Nelson and Larson are Co Department Chairs for General Pediatrics for Sanford Clinic
• Dr. Zylstra is Chief of Pediatrics for Sanford USD Medical Center Hospital
• Dr. Zylstra is Chair of the Pediatric Care Committee for Sanford Hospital
• Dr. Nelson is Co-Chair of the Professional Committee for Sanford Health
• Dr. Carruthers is a member of the Enterprise Clinical Practice Committee
• Dr. Carruthers is a member of the Perinatal Committee
• Dr. Larson is on the Neonatal Care Services Committee
• Dr. Larson is on the Enterprise Immunization and 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. VanBeek is on the Metabolic and Bariatric Committee

Community
• Dr. Haggar is a youth group leader for her church and works with Compassion Childcare
• Dr. Ashbaugh does foster care.
• Dr. Weinacht is on the St Vincent de Paul Society
• Dr. B Bauer has been Boy Scout Leader and Committee Chair
• Dr. Carruthers 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.
• Dr.s Haggar, Whittington, Larson, Reece, Mailloux, and have done multiple interviews for local new organizations
• Dr. Schimelpfenig is the SD AAP Chapter President

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, Shea Bonine, Cartney Knecht

**Teaching**

**Medical Students**

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

**Small Groups**
- Dr. Ward started the genetics interest group

**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.

**Lectures**
- Dr. Ward teaches lectures on intellectual disability to 1st year genetic counseling students and metabolic disorders to the 2nd year genetic counseling students.

**Undergraduate Students**
- Dr. Davis-Keppen mentored an undergraduate student interested in medical school and genetics.

**Residents**
- Pediatric residents and transitional residents regularly take the genetics elective.

**Lectures**
- Dr. Ward teaches three lectures per year to the pediatric residents, one two-hour lecture per year to psychiatry residents.

**Scholarly Activity**

**Publications**

Grants
Submitted
• Brain and Behavior Research Foundation NARSAD Young Investigators Grant
• The Templeton Foundation

Presentations
Dr. Davis-Keppen
• 10-22-19 Genetic hearing tests-ECHO parent talk
• 11-19-19 Disorders of sex development
• 11-26-19 Genetic evaluation of hearing loss
Dr. Ward
• 9-6-20 Imagenetics Genomic Medicine Symposium -- “The Emerging Role of Chromosomal Copy Number Variants in Clinical Psychiatry”
• 2-27-20 Department of Pediatrics Grand Rounds – Care for the Patient with Achondroplasia

Clinical Service
New Clinics/Programs/Outreach
• Skeletal Dyplasia, Psychiatric Genetics
• Dr. Davis-Keppen and Dr. Ward provide outreach clinic to Rapid City eight times per year

Innovative clinical services
• Down syndrome, Fetal Alcohol Spectrum Disorders Clinic, Cleft Lip and Palate multidisciplinary clinics

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
• Advisory board member for the Masters Degree program for Genetic Counseling, Augustana University and Sanford Health
Dr. Ward
• Volunteer inspector for the Annie E. Casey Foundation Juvenile Detention Alternatives Initiative

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; Daniel Callaway MD; Ashlee Blumhoff PNP; Brianna Murphy DO

**Teaching**

**Medical Students**

Pillar 2  
Anton Boggy  
Moan El Gayer  
Nicole Rogers  

Pillar 3  
Hannah Schumacher  
Sarah Scott

**Residents**

Tara Raschien MD  
Emelia Stille DO  
Joseph Presson DO  
Caleb Hentges DO  
Kristin Stuive DO  
Tara Robere DO  
Rebecca Gehrmann MD  
Jessica Barnes DO

**Scholarly Activity**

**Publications**

- Lee, Platt, Weeks, Grace, Maher, Gauthier, Devanna, Vitali, Randolf, McDonald, Geha, Chou. Immune dysregulation and multisystem inflammatory syndrome in children (MIS-C) in patients with haploinsufficiency of SOCS1. Accepted for publication, Journal of Allergy and Clinical Immunology.

**Grants**

Awarded  
Great Lakes Hemophilia Foundation.

**Presentations**

**Local**  
Maher  
- 3/9/20, Cervical Lymphadenopathy, USD Family Medicine noon conference  
- 6/19/20: Immune Thrombocytopenia, pediatric noon conference  
- 8/31/20: Pediatric Hematology/Oncology in Primary Care, USD Family Medicine noon conference

**Clinical Service**

**New Clinics/Programs/Outreach**  
Pediatric Hematology/Oncology, Aberdeen, SD
**Volunteer Service**

**Medical School**

Maher
- Department of Pediatrics Vice-Chair
- Grand Rounds Committee
- Residency Committee

Wagner
- Associate Program Director, Pediatrics Residency

**Hospital/Clinic**

Maher
- Institutional Review Board #3, Sanford Research, voting member.

**Professional**

Maher
- Member American Medical Association, American Osteopathic Association

Wagner
- Principal Investigator, Children’s Oncology Group

Murphy
- Principal Investigator, Sickle Treatment & Outcomes Research in the Midwest
- Member Histiocytosis Society, The American Society of Pediatric Hematology/Oncology, and The American Osteopathic Association

Maher, Wagner, Murphy
- Members, Children’s Oncology Group
**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**  
**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
• Abstract Review, Clinical Conundrums presentations, Pediatric Hospital Medicine conference, sponsored by American Academy of Pediatrics. (CG)

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 and Fernando J. Bula-Rudas, MD

Teaching
Medical Students
Pillar 2
Bula and Lopez
- Michael Wallum
- Landon Olson (visiting med student)
- Matthew Lommen
- Natalie Walter
- Mona El-Gayer
- Megan Sommers
Pillar 3
- Austin Eggers
- Tyler Sternhagen
- Ethan Nemmers

Lectures
Bula
- NBME pediatric review for Pillar 2 students

Small Groups
Bula
- Triple jump cases: McKayla Wieczorek, Brendan Weschler

Mentoring
Bula
- McKayla Wieczorek
- Brendan Weschler
Lopez
- Palmer Geralyn, Kooima Travis; VanHove, Christopher and Withrow, Landon
  Project: American Indian children outcomes during lower respiratory tract infection
  Highlights: Poster presentation at IDWeek 2019, Washington DC;
- Travel Award: Travis Kooima and Christopher Van Hove received T. Denny Sanford Pediatric Fellowship Travel Support Award to attend the IDWeek 2019.
- Claire Porter and Riley Paulsen (MD-PhD student): Project: American Indian children rate of vaccination

Residents
Electives
Bula and Lopez
- Rebecca Gehrmann, PGY-2
- Caleb Hentges, PGY-2
- Kristin Stuive PGY-2
- Tara Robare, PGY-2
- Joseph Presson, PGY-2
Lectures
Bula
Lopez
- Fever of Unknown origin, Neonatal Infection and Musculoskeletal infection

CME
Lectures
Bula

Scholarly Activity
Grant
Submitted
Bula and Lopez
- DaCCoTa Pilot-COVID-19: Comparison of antibodies against SARS-CoV-2 in cancer and non-cancer pediatric patients in South Dakota
Lopez
- Seqirus: Comparison of Inactivated Cell based vs Egg based Influenza vaccine
  Pfizer: Evaluation of Streptococcus pneumonia colonization and COVID-19

Presentations
Local
Lopez
- Grand Round: Native American children and lower respiratory tract Infection

International
Lopez
- COVID-19 Immune Response, Argentinean Pediatric Infectious Disease Society (Guest Speaker)

Posters
National
Bula

International
Lopez

Clinical Service
New Clinics/Programs/Outreach
- Peds ID Telehealth during COVID pandemic
Innovative clinical services
- Administration of routine catch up immunizations in patients
- Travel clinic. Administration of vaccines in specialty clinic.

Vaccine clinical trials:
- Janssen RSV 2002. CROCUS. Children’s RSV Outcome Clinical Study. Active.
- Medimmune RSV D5290C00004. MELODY. A Phase 3 Randomized, double-blind, placebo-controlled study to evaluate the safety and efficacy of MED18897, a monoclonal antibody with an extended half-life against RSV, in healthy late-preterm and term infants. Active.
- Merck NPMK7625A. A phase 1, open-label, non-comparative, multicenter clinical study to evaluate the safety, tolerability, and pharmacokinetics of ceftolozane/tazobactam in pediatric participants with nosocomial pneumonia. Active.
- PCORI. Kawasaki Disease comparative effectiveness trial. Active.
- GSK Meningococcal B V72.57. Safety and immunogenicity of GSK meningococcal group B vaccine and 13-valent Pneumococcal Vaccines administered together with routine infant vaccines in healthy infants. Active.
- Pfizer Pneumococcal C3571002. A phase 2, randomized, open-label trial to evaluate the safety and immunogenicity of a multivalent pneumococcal conjugate vaccine given with, or separately from, 13-valent pneumococcal conjugate vaccine in healthy infants. Closed for enrollment.
- Moderna hMPV-PIV3 mRNA-1653-P102. Safety and immunogenicity of mRNA-1653, a combined human Metapneumovirus (hMPV) and Parainfluenza virus type 3 (PIV3) Vaccine, in healthy adults, and children 12-36 months of age with serologic evidence of prior exposure. Active.

Volunteer Service
Bula
Professional
- Assistant professor of pediatrics. USD Sanford School of Medicine
- Pediatric Clerkship director
- Infection Prevention Committee. Sanford Health University of South Dakota Medical Center. Sioux Falls, SD. August 2016. Active member.
- Sanford Children’s Hospital Infection Prevention Committee. Sanford Children’s Hospital. Sioux Falls, SD. August 2016. Active member.
- Sioux Falls Region Immunizations Committee. Sanford Health University of South Dakota Medical Center. Sioux Falls, SD. August 2016. Active member

Lopez
Medical School
- Assistant Professor, University of South Dakota, Sanford School of Medicine, SD
**Hospital/Clinic**
- Chair of the comprehensive Unit-based Safety program for central line infection reduction; Sanford Health.
- Co-Director of Antimicrobial Stewardship, Sanford Children’s Hospital, Sioux Falls, SD.

**Community**
- External Advisor for the Sioux Falls School District

**Professional: Editorship**
- Journal of the Pediatric Infectious Diseases Society and AAP Pediatrics
**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, Associate Physician-Scientist at Sanford Research
Lauritz Meyer MD, Assistant Professor of Pediatrics, Director of Neonatal Transport, Director of NICU rotation for medical students
Jessica White MD, Assistant Professor of Pediatrics, Director of NICU rotation for Pediatric Residents, Clinical Investigator at Sanford Research
Laurie Hogden MD, Assistant Professor of Pediatrics, NIC Quality Improvement Chair, NICU Follow Up Clinic Director
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 810 neonates admitted to the Boekelheide NICU in 2019. 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 includes 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 200 neonatal transports last year. Nine members of the section (Drs. Munson, Khan, Hogden, Meyer, Messier, White, Grev, Steinbrekera, and Anderson) staff the weekly NICU Follow-up Clinic for high-risk graduates of the NICU. The neonatologists mentor LEND students, nurse practitioner students, and pediatric residents in the clinic. Dr. Hogden serves as the Director of the NICU Follow-up 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 and as the NICU liaison, along with Dr. Steinbrekera.

**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** and **Dr. Grev** have 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**

**Dr. Baack** continues in a half-time clinical position and a half-time appointment at Sanford Research, where she is Associate Physician-Scientist. In addition to leading NRN studies, **Dr. Baack’s** projects include:

- International Milk Bank Survey. Co-Investigator (PI, Simon Dyall, Bournemouth University, UK)
- Registry for Perinatal COVID-19 Infections. American Academy of Pediatrics Section on Neonatal-Perinatal Medicine. Sanford Principal Investigator
- Identifying Genetic Causes of Rare Diseases. Sanford Research Sub-Investigator

**Neonatal Research Network**

Sanford NICU is a satellite site with the University of Iowa for the Neonatal Research Network (NRN). The NRN 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 <29 weeks gestational age. 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: 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: Michelle Baack MD
- Project Title: All Birth Cohort Study. Sanford Principal Investigator: Michelle Baack MD
• Project Title: Follow up Study. Sanford Principal Investigator: Laurie Hogden MD (Gold Standard Neurologic Examiner for all NRN Follow-Up Studies)
• Project Title: Hydrocortisone for Bronchopulmonary Dysplasia. Sanford Principal Investigator: Larry Meyer 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 Investigators: Lauritz Meyer MD and Jacquelyn Grev MD
• Project Title: Cycled Phototherapy: A Safer Effective Method to Control the Serum Bilirubin of Extremely Premature Infants? Sanford Principal Investigator: Baiba Steinbrekera MD
• Project Title: Eating, Sleeping, Consoling for Neonatal Opioid Withdrawal (ESC-NOW): A Function-Based Assessment and Management Approach. Sanford Principal Investigator: Jessica White MD
• Project Title: Pragmatic, Randomized, Blinded Trial to Shorten Pharmacologic Treatment of Newborns with Neonatal Opioid Withdrawal Syndrome (NOWS). Sanford Principal Investigator: Akram Khan MD

Research and quality improvement are ongoing initiatives of the section and currently include the following group projects, led by Dr. Hogden as Chairperson of the NICU Quality Improvement Council:
• Management of Asymptomatic Infants Exposed to Chorioamnionitis
• Thickener Use with Feedings for Oropharyngeal Dysphagia
• Reduction of Bronchopulmonary Dysplasia
• Preventing progression of ROP
• Prevention of Newborn Hypothermia in VLBW Infants
• Dandle Roo Positioning Blanket and the Effectiveness of Phototherapy in the NICU

Research Mentoring of Undergraduate Students
Michelle Carlson, University of Dallas, Irving, TX; Sanford Program for Undergraduate Research (2019). Transitioned to pursue her PhD in Biological Sciences at Notre Dame University
Michelle Baack MD

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

Research Mentoring of Graduate Students
Claire Kittock, USD SSOM MD/PhD Training Program. Medical Student Research Program
Michelle Baack MD

Eli J Louwagie, USD SSOM MD/PhD Training Program. “Mitochondrial Roles in Developmentally Programmed Heart Disease”
• Highlights: First-author publication in Pediatric Research
• 4 co-authored papers in American Journal of Physiology - Heart and Circulatory Physiology, Nutrients, International Journal of Molecular Sciences, and Frontiers in Endocrinology
• Submitted first author paper to Cell Reports
• Society for Pediatrics Research (SPR) MD-PhD Student Research Award
Michelle Baack MD
Ruth Ellen Anderson, USD SSOM MD/PhD Training Program. “Dynamic Regulation of Vesicular Trafficking by Altered Sterol Homeostasis”
• Dissertation Committee, Career Mentor: Michelle Baack MD

Emily Storm, USD SSOM MD/PhD Training Program. “Potential Mechanisms of Nup155 in Cardiac Development and Disease”
• Dissertation Committee, Career Mentor: Michelle Baack MD

Research Mentoring of Medical Students
• Jacquelyn Grev MD

Maya Gogoi MSII. Research project to evaluate the role of steroids and adrenal insufficiency in VLBW infants. Single Center, Case-Control Study to Determine Probability of adrenal Insufficiency in Very Low Birth Weight Infants. T32 CHIRP Grant Recipient
• Jacquelyn Grev MD
• Michelle Baack MD

• Lauritz Meyer MD

• Jessica White MD

Claire Kittock, USD-SSOM MD/PhD Training Program. “Influence of Prenatal Exposure to Maternal Diabetes on hu-MSC Proliferation and Differentiation”
• Mentor: Michelle Baack MD

Jaelin Otta MSIV, Natalie Walter MSIV, Morgan Sorensen MSIV, Mona ElGayar MSIV. “Dandle Roo Positioning Blanket and the Effectiveness of Phototherapy in the NICU”
• Baiba Steinbrekera MD

Research Mentoring of Pediatric Residents
Emelia Stille DO. “Lactational Exposure to High-Fat Diet and Metformin Incites Myocardial Lipid Accumulation in Adult Male Offspring”
• Michelle Baack MD

Emelia Stille DO and Annie Martino MD. Assisting in the implementation of Eat-Sleep-Console Initiative in the NICU
• Jessica White MD

Publications


Schroeder, M. and White JR. “Neonatal Abstinence Syndrome: Prevention, Recognition, Treatment, and Follow-up.” In Press


Presentations
Jessica White “How (and Why) to Integrate Research into a Busy Clinical Practice.” Presentation for Women in Science and Medicine Education Day. USD SSOM. October 15, 2019
Dorn K. and White J. “Case Report: Preterm Neonate with Abnormal Facies, Joint Contractures, and Respiratory Failure.” Oral presentation for USD SSOM 1st Annual Student Affairs Virtual Scholars Symposium. September 9, 2020

Laurie Hogden “Jaundice in the Neonate” Pediatric Residency Noon Conference

Michelle Baack “Neonatal Dermatology: Cause for Counsel or Concern?” Pediatric Residency Noon Conference

Akram Khan “Kernicterus” Pediatric Residency Noon Conference

Akram Khan “Infant with Severe Skeletal Anomalies, Altered Features and Arachnodactyly” Oral Presentation at Rady Children’s Hospital Genomic Consortium


Steve Messier “Respiratory Distress of the Newborn” and “Respiratory Support of the Sick Newborn” Pediatric Residency Noon Conference

Entrepreneurship & Patents
De la Puente P; Baack, M; Bhatacharya, S; Gandy, T and Calar, K. “Three-Dimensional Cross-Linked Scaffolds of Blood Plasma and Their Use.” Provisional Patent, 2019 and full patent submission June 13, 2020
**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

*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

**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
Sanford Division Chief of Research, USD SSOM Department of Pediatrics

**Dr. Khan**
NICU Picnic Organization Committee
Sanford Children's Genomic Consortium Project
Neonatal Abstinence Syndrome Work Group
Leadership Education in Neurodevelopmental and Related Disabilities (LEND) Opioid Education through Project SCOPE (Supporting Children of the Opioid Epidemic) with Extension of Community Health Care Outcomes (ECHO)

**Dr. Hogden**
Seventh District SDSMA Member
USD SSOM Student Financial Aid Committee
USD SSOM Medical Education Committee
Sanford Health Newborn 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 - Jordyn Kreutzfeldt MSIV
NICU Patient Experience Committee
Sanford Children's CDI Physician Champion
Neonatal Intensive Care Quality Improvement Committee (NIC QIC) Chair
South Dakota Perinatal Association (SDPA) Board Member
South Dakota Perinatal Association (SDPA) Planning Committee
Pediatric Boot Camp Participant

**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 Clinical Competence Committee
USD SSOM Pediatric Residency Committee
SAFE High Reliability Organization Trainer
Sanford Health Peer Mentor

**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
South Dakota Perinatal Association (SDPA) Board Member
South Dakota Perinatal Association (SDPA) Planning Committee

**Dr. Munson**
Sanford Health Credentials Committee
Sanford Health By-laws committee
USD SSOM Department of Pediatrics Promotion and Tenure Committee, Chair
Mentor for middle school boys from church
Pro Am International Golf Tournament Security Committee
Clinical Teaching of Pillar 2 students and Pediatric Residents

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

**Dr. White**
USD SSOM Pediatric Residency Clinical Competency Committee
USD SSOM Pediatric Wellness Residency Subcommittee
USD SSOM Pediatric Residency Recruitment
Pediatric/Neonatal ECMO Committee (NICU Co-Liaison)
NICU Infant-driven Feeding Committee
Mock Code Committee
Fetal Chart Committee
USD SSOM Graduate Medical Education Committee
USD Strategic Planning Task Force
Neonatal Abstinence Syndrome Work Group
NICU Multidisciplinary Initiative – Read to Babies/Read-A-Thon
AAP District VI Association of Neonatologists Board
Sanford Research Clinical Investigator
Invited Reviewer - American Journal of Perinatology

Dr. Steinbrekera
Neonatal Intensive Care Quality Improvement (NIC QIC) Committee
NICU ELBW Infant Committee
Pediatric/Neonatal ECMO Committee (NICU Co-Liaison)
Invited Reviewer – American Journal of Perinatology
Medical Student Mock Interviewer for residency preparation
Pediatric Residency Faculty Interviewer

Dr. Grev
Neonatal Intensive Care Quality Improvement (NIC QIC) Committee
Sanford Blood Product Transfusion Committee
Pediatric Resident Advisor – Ariane Moffett DO

Dr. Anderson
Neonatal Intensive Care Quality Improvement (NIC QIC) Committee
NICU Graduates Annual Reunion Representative

Dr. Wellman
Clinical teaching of Pediatric Resident

**New Directions in 2021**
- 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.
- Maintain knowledge and adherence of current recommendations for the evaluation and treatment of COVID-19 exposed infants from maternal infection
- Institutional practice change with implementation of Eat-Sleep-Console in treatment for neonatal opioid withdrawal which will include education of all NICU staff (nurses, therapists, physicians, NNPs).
- Provide continued support for the numerous clinical research trials, including those new and ongoing projects 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. Hodgen, to Drive Quality Improvement. In 2021, our focus is on respiratory standardization in the NICU. In addition, the multi-disciplinary NIC QIC will continue with ongoing data collection in the evaluation of at-risk infants exposed to chorioamnionitis.
**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

**Lectures**
- (Dan) 3/26/20 USD Medical School: transition to residency course “Communication Skills for Providers”

**Small Groups**
- (Dan) Interdisciplinary Palliative Care (IPC) Seminar, organized by Life Circle South Dakota; weekly sessions each fall; containing medical, nursing, social work, pharmacy, and chaplain students

**Healthcare Profession Students**

**Lectures**
- (Pam) 4/14/20 Augustana genetics students “Perinatal Palliative Care”
- (Larry) anticipated-10/23/20 USD physician assistant students “Pediatric Palliative Care”

**Small Groups**
- (Dan) as noted above: Interdisciplinary Palliative Care (IPC) Seminar, organized by Life Circle South Dakota; weekly sessions each fall; containing medical, nursing, social work, pharmacy, and chaplain students
- (Team) PA student rotated with PRISM Team for 1 week last year

**Residents**

**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
Pulmonary
Dr. James Wallace, Division Chief
Division Members
Chuanpit Moser MD, Amit Jain MD, Deborah Hickman DNP

Teaching
Medical Students
Pillar 2
Morgan Sorensen
Michael andreone
Nate Whitsell
Ahna Buntrock
Victor Georgiev

Healthcare Profession Students
SDSU Pharmacy
Brooke Nibbelink
Clinical Nurse Practitioner/Physician Assistant Students
Tyler Hanson – NP Student
Janea Paul – NP Student
Shelby Retzer – PA Student
Megan Klueber -- PA Student

Residents
Ashley Coaston – PGY1
Shebeet Mangat – PGY1
Nathanial Nelson – PGY1
Anna Lisa Martino – PGY1
Jade Arrobas – PGY1
Molly Linn – PGY3

Scholarly Activity
Grants
Awarded
CFF Center Award, CFF Therapeutic Development Center Grant

Clinical Service
New Clinics/Programs/Outreach
We are exploring outreach to Gillette, Wyoming

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
- APP Professional Practice Committee
Enterprise Clinical Practice Committee,
Enterprise Professional Health Committee
Physician Executive Council
Allied Health Credentials 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 and the Pharmacy and Therapeutics 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 July 2015- present
Co-chair Asthma & Allergy Special Interest Group
Advanced Practice Nursing Advisory Committee February 2014- present
South Dakota Board of Nursing

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.

Recently Closed Studies

- 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. Michelle Baack and Amy Elliott, Co-Division Chiefs
Division Members
Drs. Michelle Baack, Indra Chandrasekar, Randolph Faustino, Kevin Francis, Emily Griese, Kurt Griffin, Michael Kareta, Attila Kovacs, Lance Lee, Santiago Lopez, Samuel Milanovich, Thayne Munce, David Pearce, Kyle Roux, Alexei Savinov, Arielle Selya, Kameswaran Surendran, Jianning Tao, Jill Weimer

SANFORD

Teaching and Mentoring
Sanford’s Research Division remains committed to training and mentoring the next generation of physicians and scientists through research training programs, didactic courses and seminars for every level of trainee within USD-SSOM. Individual faculty and their teaching and mentoring contributions are noted below in alphabetical order.

Michelle Baack

Clinical Training
Dr. Baack teaches medical students, residents and nurse practitioner students rotating through the Boekelheide NICU for clinical rotations. She also routinely participates in various Pediatric faculty and trainee conferences including the weekly Pediatric Resident NICU Morning Report.

Mentoring
Graduate Students
- Megan Jorgensen; USD-SSOM MD/PhD training program, 2020-present. Mentor: Pilar De la Puente. Role: Thesis committee
- Thesis: “Mitochondrial roles in developmentally programmed heart disease.”
- Ruthellen Anderson; USD-SSOM MD/PhD training program, 2017-present. Mentor: Kevin Francis. Role: Thesis committee, Career advisor
- Emily Storm; USD-SSOM MD/PhD training program, 2017-present. Mentor: Randy Faustino. Role: Thesis committee

Residents
- Emelia Stille, DO; USD-SSOM Pediatric Resident, 2020-present. Role: Research mentor
  Highlights: Midwest Society for Pediatric Research Poster Symposium: “Lactational Exposure to High-Fat Diet and Metformin Incites Myocardial Lipid Accumulation in Adult Male Offspring”

Medical Students
- Maya Gogoi; USD-SSOM Medical Student, 2020-present. Role: Co-mentor (Jacqueline Grev), Research mentor “Single center, retrospective, case-control study to determine attributable risks of corticosteroid use and adrenal insufficiency in very low birth weight (VLBW) infants.” Highlights: USD-SSOM, T32 CHIRP Grant Recipient
- Claire Kittock, USD-SSOM MD/PhD training program, 2019. Role: Medical Student Research Program (MSRP) mentor (2019)

Undergraduates
- Michelle Carlson-Bennett, University of Dallas, Irving, TX; SPUR, 2019. Role: Mentor
- Highlights: Multiple local presentations and co-authored paper in Reproductive Sciences entitled "Uteroplacental Insufficiency with Hypoxia Upregulates PlacentalPPARy-KMT5A Axis in the Rat". Transitioned to pursue her PhD in Biological Sciences at Notre Dame University in 2020
Andrew Paulson, Augustana University; SPUR/REU. Role: Mentor
Highlights: Multiple local presentations. “Evaluation of huMSC isolation methods for use in cardiac regenerative medicine: explant vs. enzymatic digestion” and “Consequences of maternal diabetes on development of the myocardial mitochondrial reticulum”

Courses/Lectures
Neonatal Dermatology: Cause for Counsel or Concern? Pediatric Resident’s Noon Conference Series

Indra Chandrasekar

Mentoring
Postdoctoral Fellows
Dr. Karla Otterpohl, Postdoctoral fellow, 2015 – present. Role: Mentor

Graduate Students
- Mr. Brook Busselman, 2019 – present. Role: Mentor
- Ms. Divya Kota, Graduate Program in Nanoscience and engineering, South Dakota School of Mines and Technology, 2017-2020. Ms. Kota works on the Myosin II tension sensor project in my lab in collaboration with department of nanoscience and engineering at SDSMT. Role: Thesis committee
- Mr. Ishara Ratnayake, Graduate Program in Nanoscience and engineering, South Dakota School of Mines and Technology, 2018 – 2019. I provide technical training and mentorship for Mr. Ratnayake’s work on TEM imaging of mouse kidneys. Role: Thesis committee
- Ms. Rhiannon Sears, Sanford Research, USD BBS Graduate program, 2018 – present. Role: Thesis committee
- Mr. Eric Fogarty, Sanford Research, 2017 – 2020. Role: Thesis committee

Undergraduates
- Mr. Mason Schmidt, SPUR/REU, 2019.
- Highlights: Mason received the prestigious NSF BioREU travel award to present his summer research work in the lab at the American Society for Cell Biology Annual Meeting held in Washington, D.C.

Randy Faustino

Mentoring
Graduate Students
- Megan Jorgensen, USD-SSOM MD/PhD training program, 2020-present. Role: Thesis committee
- Emily Storm, USD-SSOM MD/PhD training program, 2017-present. Role: Mentor

Undergraduates
- Ashley Cain-Stoddard, BYU, Idaho (remote undergraduate intern), 2020. Role: Mentor
- Ryan Burdine, Augustana University; SPUR/REU, 2018-2020. Role: Mentor

Courses/Lectures
- CPHD 601: Bioinformatics. Role: Lecturer
- CPHD 763: Molecular Mechanisms of Disease, Cardiac Development and Genetic Regulation of Cardiac Development and Disease. Course Director: Lee, Role: Lecturer
- Sanford Research Ethics Seminar Series, Plagiarism. Role: Lecturer

Kevin Francis

Mentoring
Postdoctoral Fellows and Graduate Students
- Ruthellen Anderson, USD-SSOM MD/PhD training program, 2017-present. Role: Mentor
- Highlights: NSF F30 Grant recipient for “Dynamic regulation of vesicular trafficking by altered sterol homeostasis.” Many platform presentations including MSPR, PAS, and SPR Student Research Award. Bethany Freel. USD BBS Ph.D. training program. Role: Mentor
- Eric Sandhurst. USD Ph.D. training program, Neuroscience and Nanotechnology Network. Role: Mentor
- Jordan Sheets, Ph.D., USD BBS; Postdoctoral fellow. Role: Mentor
- Sonali Sengupta, Ph.D., Bose Institute, Jadavpur University, India; Postdoctoral fellow. Role: Mentor
- Eric Fogarty, USD BBS Ph.D. training program. Role: Dissertation committee
- Johnny Sanyour, USD Biomedical Engineering Ph.D. training program. Role: Dissertation committee
- Rachel Laufmann, USD BBS Ph.D. training program. Role: Dissertation committee
- Kirby Rickel, USD Biomedical Engineering PhD training program. Role: Dissertation committee
- Rhiannon Sears, USD BBS Ph.D. training program. Role: Dissertation committee

Undergraduates
- Maycie Schultz – Augustana University, SD. Role: Mentor
- Ben Kelvington – Augustana University, SD. Role: Mentor

Courses/Lectures
- CPHD 792: Molecular Mechanisms of Disease, Course Director: Lee, Role: Lecturer
- CPHD 792: Cutting-Edge Techniques in Molecular Neuroscience, Role: Co-Director

Kurt Griffin

Courses/Lectures
- Genetics of Human Disease: Graduate Student Teaching—University of South Dakota. Lectures and discussion section on genetics of diabetes. Nov–Dec 2019
- Pediatric Resident Lecture Series, USD-SSOM, September 3, 2020. The Sanford PLEDGE Study
- Sanford Diabetes Care Conference, Sioux Falls, SD, August 23, 2019. T1D Research Update.

Mentoring
- Santiago Valdez, MD, 2019–Present

Michael Kareta

Mentoring
Postdoctoral Fellows and Graduate Students
- Hannah Wollenzien, USD BBS Ph.D. training program. Role: Mentor
- Anthony Restaino, USD MD/PhD training program, 2020-present. Mentor Paola Vermeer. Role: Dissertation committee
- John Slunecka, USD MD/PhD training program, 2019-present. Mentor: Erik Ahli, PhD, Gareth Davies, PhD. Role: Dissertation committee
- Emily Storm, USD MD/PhD training program, 2018-present. Mentor: Randy Faustino. Role: Dissertation committee
- Eric Fogarty, USD BBS Ph.D. training program, 2018-2020. Mentor: Kamesh Surendran, PhD. Role: Dissertation committee

Undergraduates
- Lucas Simpson – Augustana University, SPUR/REU. Role: Mentor. Highlights: Transitioned to a PhD training program at the University of Rochester

Courses/Lectures
CPHD 601: Bioinformatics. Role: Lecturer

Lance Lee

Leadership/Courses/Lectures
- Course Director and Lecturer (8), CPHD725 Genetics of Human Disease
- Course Director, CPHD602 Laboratory Rotations

Mentoring
Postdoctoral Fellows
Matthew Billion, postdoctoral fellow intern rotation.
Graduate Students
- Rachel Laufmann, USD BBS Masters Plan A. Role: Thesis committee
• Rama Patlola, USD BBS Masters Plan A. Role: Thesis committee
• Haydee Torres, SDSU Biochemistry PhD training program. Role: Thesis committee

Undergraduate Students
Jennifer Kuiken, University of Sioux Falls, undergraduate research. Role: Mentor

Santiago Lopez

Teaching
Dr. Lopez is instrumental in clinical training of medical students and residents in clinical rotations in Pediatric Infectious Disease, as well as Vaccines and Prevention.

Medical Students
• Michael Wallum, MSIII
• Landon Olson, MSIII
• Austin Eggers, MSIV
• Tyler Sternhagen, MSIV
• Mona El-Gayes, MSIII
• Megan Sommers, MSIV
• Matthew Lommen, MSIII
• Natalie Walter, MSIII

Residents
• Nathaniel Nelson, PGY-2
• Rebecca Gehrmann, PGY-2
• Caleb Hentges, PGY-2
• Kristin Stuive PGY-2
• Tara Robare, PGY-2
• Joseph Presson, PGY-2

Mentoring
Medical Students
• Geralyn Palmer, MS, USD-SSOM, 2019-present
• Travis Kooima, MS, USD-SSOM, 2019-present
• Christopher Van Hove, MS, USD-SSOM, 2019-present
• Landon Withrow, MS, USD-SSOM, 2019-present

Role: Project mentor
Project: American Indian Children Outcomes During Lower Respiratory Tract Infection.

Highlights: Poster presentation at IDWeek 2019, Washington DC; T. Denny Sanford Pediatric Fellowship Travel Award: Travis Kooima and Christopher Van Hove

• Claire Porter, MS, USD-SSOM, 2019-present
• Riley Paulsen, MD-PhD training program, USD-SSOM, 2019-present

Role: Primary mentor

Courses/Lectures
• Lectures: Fever of Unknown Origin
• Neonatal Infection and Musculoskeletal Infection

Samuel Milanovich

Dr. Milanovich is instrumental in clinical training of medical students and residents in clinical rotations in Pediatric Heme-Oncology.

Teaching
Medical students
• Shauneil Schwartz, MS2 elective, 8/15/19
• Parker Heger, pre-med under grad, 7/22/19, 7/29/19, 8/1/19
• Elise Blaseg, MS2 elective, 7/25/19
• Kelsey Westad, MS2 elective, 7/18/19
- Boggy Anton, MS3 continuity, 4/18-8/8/19
- Mona El-Gayer, MS3 continuity, 9/5-10/3/19

Residents
- Taryn Raschein, 7/1-7/26/19
- Emelia Stille, 8/12-8/23/19
- Joe Presson, 8/26-9/20/19
- Caleb Hentges, 9/23-10/4/19

Undergraduates

Mentoring
- Baiba Steinbrekera, MD, Assistant Professor in Neonatology Division. Role: Career development mentor, USD-SSOM mentoring program

Courses/Lectures
- South Dakota Academy of Physician Assistants, Fall CME Conference, Sioux Falls, SD. Approach to hematology chief complaints in pediatric patients.

Thayne Munce

Mentoring
Graduate Students
Kori Fink, USD Masters Student, Division of Kinesiology and Sport Management. Role: Mentor

Undergraduate Students
Kori Fink, University of Sioux Falls. Role: Research mentor

Courses/Lectures
Introduction to Exercise Science Course, University of Sioux Falls. Role: Lecturer

Kyle Roux

Mentoring
Graduate Students
- Rhiannon Sears, USD BBS Ph.D. training program. Role: Mentor
- Elle Anderson, USD MD/Ph.D training program. Role: Dissertation Committee
- Emily Storm, USD MD/Ph.D training program. Role: Dissertation Committee
- Eric Fogarty, USD Ph.D training program. Role: Dissertation Committee. Highlights: Defended with MS
- Brook Busselman, USD Ph.D training program. Role: Dissertation Committee

Alexei Savinov

Mentoring
Graduate Students
Rama Patiola, USD BBS, Master’s student.

Courses/Lectures
CPHD 792, Developmental Biology of Disease, USD BBS. Molecular Mechanisms of Disease – two part lecture. Role: Lecturer

Arielle Selya

Courses/Lectures
CPHD 610: Logistic Regression Guest Lecture, USD BBS Department, 2020. Experimental Design and Analysis. Role: Lecturer
Kamesh Surendran

Mentoring
Postdoctoral Fellows
- Malini Mukherjee Ph.D., (Staff Scientist). Role: Mentor/PI
- Madhusudhana Janga Ph.D. (Staff Scientist). Role: Mentor/PI

Graduate Students
Eric Fogarty, USD Ph.D. training program. Role: Graduate student advisor. Highlights: Defended with MS

Undergraduate Students
- Samantha Goetting, SPUR. Role: Mentor
- Arianna Feller, Undergraduate Student, Sanford Health Internship Program (SHIP). Role: Mentor
- Jasmine Johnson, High School Student, PROMISE Scholar. Role: Mentor

Courses/lectures
- CPHD 792, Genetics of Human Diseases. Role: Lecturer
- CPHD 792, Developmental Biology of Disease. Role: Lecturer

Jill Weimer

Mentoring
Medical Students
- Kayla Knutson, USD-SSOM Medical Student, MSRP Program, 2018-present. Role: Mentor
  Highlights: NIH-funded Children Health Research Program (CHIRP) recipient
- Ryan Patrick, USD-SSOM Medical Student, 2018-present. Role: Mentor
  Highlights: NIH-funded Children Health Research Program (CHIRP) recipient
- Jordan Dykstra, USD-SSOM Medical Student, Scholarships Pathways Program, 2018-present. Role: Mentor

Postdoctoral fellows and Graduate Students
- Brandon Meyerink, USD BBS Ph.D. training program, 2020-present. Role: Mentor
- Matthew Stratton, Rosalind Franklin University of Medicine and Science, PhD training program, North Chicago, 2020-present. Role: Thesis committee
- Lipsa Jenna, University of Arizona, PhD training program, Pharmacology, 2020-present. Role: Thesis committee
- Anthony Restaino, USD-SSOM MD/PhD training program, 2020-present. Role: Committee member
- Hannah Wollenzien, USD BBS Ph.D. training program, 2018-present. Role: Committee member
- Bethany Freel, USD BBS Ph.D. training program, 2018-present. Role: Committee member
- Rachel Lauferman, USD BBS Ph.D. training program, 2018-present. Role: Committee member
- Ruthellen Anderson, USD MD/PhD training program, 2017-present. Role: Committee member

Undergraduate Students
- McKayla Poppins, Augustana University, SPUR and Assistant Laboratory Technician, 2017-2020. Current status: Medical Student, UCLA. Role: Mentor/PI

Courses/Lectures
- NSCI 792 U025 USD Neuroscience Journal Club (Course Director: Spring and Fall 2015, Spring 2016, Fall 2020)
- CPHD 725. USD Genetics of Human Disease. 2019. Role: Lecturer

Scholarly Activity
Sanford Research has been productive with scholarly work this academic year. Division publications, grants, presentations, and abstracts are highlighted for each faculty member in alphabetical order below.
Michelle Baack

Publications


Grants

- NIH/NIGMS 2P20GM103620, Center of Biomedical Research Excellence (COBRE), Center for Pediatric Research. Pearce (PI). 9/01/18-8/31/23 Role: Project lead. Project title: Mitochondria, metabolic plasticity and cell fate in the developmental origin of fuel-mediated cardiomyopathy
- NIH/NICHD Cooperative Multicenter Neonatal Research Network, 2UG1HD053109-11, Subaward: W000910508. Bell (PI). 01/01/17-present. Role: Sub-I Sanford Site PI for 15 Studies

Presentations

Oral

- Northern Great Plains Lipid Conference, Sioux Falls, SD. July 26, 2019. Maternal high-fat diet increases the risk of heart disease in developing offspring. Platform presentation by Eli Louwagie, MD-PhD student
- Stem Cell Affinity Club, Sanford Research, September 11, 2019. Mitochondrial transplantation in primary cardiomyocytes and mesenchymal stem cells. Eli Louwagie, MD-PhD student.

Posters

- Aspen/Snowmass Perinatal Biology Symposium, Snowmass, CO, August 26th, 2019. Wharton’s jelly and cord blood-derived 3D organized culture to measure biological development” by Tyler Gandy, Andrew Paulson, Pilar de la Puente, and Michelle Baack. Poster presentation by Ty Gandy.

**Other Abstracts**
Abstracts selected for platform presentation, but scientific meeting was cancelled due to COVID-19.
- **Academic Society; Philadelphia, PA. May 2nd, 2020.** Mitochondrial Transplantation Improves Cardiac Bioenergetics in Offspring of Diabetic Mothers Born with Cardiomyopathy. Eli Louwagie*, Tricia Larsen, Angela Wachal, Michelle Baack. *Platform Presentation. BBS Travel Award. SPR MD-PhD Student Research Award for best abstract.

**Indra Chandrasekar**

**Presentations**

**Oral**
- Loyola University, Department of Cell and Molecular Physiology, Chicago, IL. Novel role(s) for Nonmuscle Myosin II isoforms in renal epithelial transport and kidney disease. March 2020. Invited Speaker.

**Posters**

**Randolph Faustino:**

**Publications**
Grants
- Sanford Foundation. This pilot/feasibility grant was awarded to support the study of defining and optimizing minimum factors required for inducible hematopoiesis. Role: Co-I
- Sanford Sport Science Institute (SSSI) and South Dakota State University (SDSU) Collaborative Grant. This pilot/feasibility grant was awarded to support work investigating circulating microRNA dynamics in collegiate level athletes before and after a structured training program. Faustino, van Guilder (PI). Role: Co-I

Presentations
Oral
- Challenge Center Student Visit, Sanford Research, Sioux Falls, SD. January 2020. Cardiac Science Education. Invited speaker.

Posters

Kevin Francis

Publications

Grants
- NIH/NIGMS 2P20GM103620, Center of Biomedical Research Excellence (COBRE), Center for Pediatric Research. Pearce (PI). 9/01/18-8/31/23 Role: Project lead. Project title: Regulation of cell fate and function by sterol homeostasis
- NIH/NINDS 1F30NS106788-01. Dynamic regulation of vesicular trafficking by altered sterol homeostasis. 2/20/18 – 2/19/22. Anderson (PI), Francis (Mentor).
- USD Neuroscience, Nanotechnology, and Networks (USD-N3) Fellowship. Characterizing astrocyte pathology and resulting phenotypes in cholesterol synthesis disorders. 08/22/19 – 08/21/20. Freel (PI), Francis (Mentor).
- NIH/NINDS 1 R01 NS113233-01A1. Reading Frame Correction for the Treatment of CLN3-Batten Disease. Hastings (PI), Francis (Co-I).

Presentations
Oral
- South Dakota State University, Department of Pharmaceutical Sciences, Brookings, SD, February 19th, 2020. Lipid metabolism at the intersection of biological chemistry and human health. Invited speaker.
• USD Center for Brain and Behavior Research Annual Symposia, Vermillion, SD, August 16th, 2019. The role of sterol homeostasis in mediating membrane curvature: implications for trafficking deficits within cholesterol synthesis disorders. Invited speaker.
• USD Center for Brain and Behavior Research Annual Symposia, Vermillion, SD, August 16th, 2019. Multifunctional biodegradable porous microspheres to act as a delivery platform and three-dimensional model for neurological disease. Invited speaker.
• Society for Neuroscience Annual Meeting, Chicago, IL, October 19th, 2019. Cln6 deficient glia are primed for activation and contribute to the neuronal deficits observed in CLN6 Batten disease. Invited speaker. Authors: Jordan Sheets, Bethany Freel, Jake Cain, Jill Weimer, Kevin Francis.

Posters
• USD Center for Brain and Behavior Research Annual Symposia, Vermillion, SD, August 16th, 2019. Freel B et al. Genetic disruption of cholesterol biosynthesis inhibits astrogenesis and induces neurodevelopmental deficits through perturbation of Wnt signaling. Authors: Bethany Freel, Nicholas Coungeris, Ben Kelvington, Kevin Francis.
• Society for Neuroscience Annual meeting, Chicago, IL October 19th, 2019. Genetic disruption of cholesterol biosynthesis inhibits astrogenesis and induces neurodevelopmental deficits through perturbation of Wnt signaling. Authors: Bethany Freel, Nicholas Coungeris, Ben Kelvington, Kevin Francis.
• Society for Neuroscience Annual meeting, Chicago, IL, October 19th, 2019. Multifunctional biodegradable porous microspheres act as a delivery platform and three-dimensional model for neurological disease. Authors: Eric Sandhurst, Sharad Jaswandkar, Dinesh Katti, Kalpana Katti, Hongli Sun, Dan Engebretson, Kevin Francis.
• Kern Lipid Conference, Vail, CO, July 2019. Defining the developmental and functional consequences of genetic disruption of cholesterol biosynthesis using human stem cell models. Authors: Nicholas Coungeris, Bethany Freel, Jordan Sheets, Jing Zhao, Kevin Francis.

Kurt Griffin

Grants
• Helmsley Charitable Trust. Sanford PLEDGE. 2020-2022. [Sanford Project Leveraging Differential Gene Expression against Type 1 Diabetes]. Role: PI

Presentations
• Genetics of Human Disease: Graduate Student Teaching—University of South Dakota. Lectures and discussion section on genetics of diabetes. Nov–Dec 2019
• Pediatric Resident Lecture Series, USD-SSOM, September 3, 2020. The Sanford PLEDGE Study
• Sanford Diabetes Care Conference, Sioux Falls, SD, August 23, 2019. T1D Research Update.
Michael Kareta

Publications

Grants
- Sanford Health Foundation Cellular Therapies & Stem Cell Biology Pilot and Feasibility Grant. Induced Hematopoietic Cell Reprogramming in Pathologic and Non-pathologic Conditions. Role: Co-I

Presentations
Oral

Posters
- 2 posters presented at the AACR/IASLC Lung Cancer Meeting

Attila Kovacs

Publications

Grants
- Revance Therapeutics, Inc., Revance Compound Evaluations. Chan (PI); Role: Research Scientist

Posters

Lance Lee

Publications

Grants
- Dakota Seeds (State of South Dakota); Undergraduate research support; PI: Lee; 2020
- 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: Lance Lee, Jill Weimer; 2019-2024
Presentations
Oral
- Dordt University, Sioux Center, IA. The Biology of Cilia in Pediatric Disease. 2019. Invited seminar speaker.

Posters

Santiago Lopez

Publications

Presentations
Oral
- Argentinean Pediatric Infectious Disease Society. Invited speaker.

Samuel Milanovich

Publications

Grants
- Alex’s Lemonade Stand Foundation / Northwestern Mutual Childhood Cancer Impact Award. Milanovich (PI). Characterizing transcriptional regulation in hematopoiesis and acute leukemia. 7/1/19-12/31/20. Role: PI.

Thayne Munce

Publications

Grants
- NIH/IDeA: Great Plains IDeA-CTR Pilot Grant Program. Injury Rates and Physical Activity in Youth Football: Tackle vs. Flag. Role: Project PI

Presentations
- See Abstracts as presentations were cancelled with conferences due to COVID-19.
Abstracts


David Pearce

Publications

- Horowitz M, Simkins J, Pearce DA. The Sanford Lorraine Cross Award for medical innovation: Advancing a rigorous and repeatable method for recognizing translational research leaders who today are bringing emerging transformative innovations to patients. J Clin Transl Res. 2020 Jan 28;5(2):80-90. PMID: 32377583; PMCID: PMC7197048

Grants

- NIH/NIGMS 2P20GM103620, Center of Biomedical Research Excellence (COBRE), Center for Pediatric Research. Pearce (PI). 9/01/18-8/31/23 Role: PI

Presentations

- Rare Diseases and Orphan Drugs Congress, Buenos Aires, March 2020. “The International Rare Diseases Research Consortium (IRDiRC): Reaching out to Policy Markers on Rare Diseases” and “Team Science: Integrating Natural Histories into EHRs for more Accurate Diagnosis”
- RE(ACT) Congress and IRDiRC Conference 2020, Berlin, March 2020. Session Chair “Methodologies to Assess the Effect of Diagnosis and Therapies on RD Patients”
- World Stem Cell Summit, Miami, January 2020. Session Chair “Update from the Innovators – Neurology and Aging Diseases”
- 14th Meeting of the International Conference on Rare Diseases and Orphan Drugs (ICORD), Tel Aviv, November 2019. Panelist “Health Policy Makers from the World”
- Rare Diseases Forum 1, Washington DC, September 2019. Panelist “Innovation in Trial Designs: Braking Lessons from the Oncology Experience to Rare Diseases”
- Rare Disease Research Symposium, New York, September 2019. Keynote “Coordination of International Research on Rare Diseases”

**Kyle Roux**

**Publications**

**Grants**
- NIH/NIGMS P20GM103620. Center for Pediatric Research, The Biochemistry Core. Pearce (PI); 09/01/2018-08/31/2023. Role: Co-Core Lead 5P20GM103620-05 (Pearce)
- NIH/NIBIB R01EB014869-02 Lele (PI). 08/01/2012 – 06/30/2020. Substrate Rigidity and Gene Expression: Role of Nuclear Tension. Role: Co-I

**Presentations**
**Oral**

**Abstracts**

**Alexei Savinov**

**Publications**

Grants

Presentations
Oral
• Department of Microbiology and Immunology, Laval University, Quebec City, Canada, June 2019. Chimeric T regulatory Cells for type diabetes treatment. (Presented virtually due to COVID-19 pandemic)

Poster

Arielle Selya

Publications
• Deutsch AR, Selya AS. Dynamic change in the association of a cigarettes-per-day polygenic risk score across the numeric range of its corresponding phenotype over adolescence and young adulthood. Addict Behav. 2020 Jul 23;112:106571. doi: 10.1016/j.addbeh.2020.106571. Epub ahead of print. PMID: 32763622
Grants
- NIH/GMS Center for Health Outcomes and Population Research CoBRE. Role: Project Lead, Director of The Data Exchange Core

Presentations
Oral
- SDSU Data Science Symposium, Brookings, SD, 2/11/2020. Opportunities for improving health through big data & data science. Invited speaker
- USD-BBS Seminar Series, Vermillion, SD, 12/7/2019. Sanford Data Exchange: On-demand access to electronic medical record data for researchers. Invited speaker

Poster

Kamesh Suren\dr an

Publications

Grants
- Sanford Health Foundation Pilot Grant. Development of individualized therapies for Alagille Syndrome. Suren\dr an (PI); 05/01/2019-08/30/2020. Role: PI
- NIH/NIDDK- R01 DK106135. Molecular Regulators of Renal Collecting Duct Differentiation and Maintenance. Suren\dr an (PI); 07/01/2016-05/31/2021. Role: PI
- NIH/NIGMS P20GM103620. Center for Pediatric Research Functional Genomics and Bioinformatics Core. Pearce (PI); 09/01/2018-08/31/2023. Role: Co-Core Lead

Presentations
Oral
- 8th International Symposium and Scientific Meeting on Alagille Syndrome, Cincinnati, OH, June 2019. Clues from mouse kidney disease studies as to the disease variability in ALGS. Invited speaker.
- NIH/NIGMS IDeA Central Region Conference, Oklahoma City, OK, June 2019. The involvement of Notch mediated lateral inhibition in kidney collecting duct cell type differentiation and maintenance. Invited speaker.
Jianning Tao

Publications

Grants
- NIH/NIGMS  P20GM103620. Center for Pediatric Research. Pearce (PI); 09/01/2018-08/31/2023. Role: Project Lead. Project Title: Dissecting of developmental signaling pathways in bone development and osteosarcoma
- National Science Foundation (NSF) 1725656. MRI: Acquisition of a Micro-CT system for 3D tissue and materials structure analysis. Engebretson (PI); 11/01/2017-10/31/2020. Role: Co-PI

Presentations
Oral
- Sanford Research ethics seminar series, Sioux Falls, SD, July 29, 2020. Ethics: Peer review. Role: Co-presenter with Pilar De La Peunte

Poster
- 2019 Sanford Undergraduate Summer Research Symposium, Sioux Falls, SD, August 9, 2019. The effects of a pan-HDAC inhibitor, SAHA, on a novel murine osteosarcoma cell line. Callahan, D., Torres, H., VanCleave, A., Tao, J.
- The South Dakota EPSCoR Undergraduate Symposium, July 30, 2019, Sioux Falls, SD. The effects of a pan-HDAC inhibitor, SAHA, on a novel murine osteosarcoma cell line. Callahan, D., Torres, H., VanCleave, A., Tao, J.


• 2020 American Association for Cancer Research (AACR), (abstract accepted for presentation on April 27 - 28, 2020, San Diego, CA but was moved to a virtual meeting, June 22-24, 2020. Defining the properties of the OS-33 osteosarcoma cell line and the effects of mTORC1 inhibition by rapamycin treatment. VanCleave, Palmer, M., Fang, F., Torres, H., Alan R., Leiferman P., Houghton P. and Tao, J.


Jill Weimer

Publications


Grants

- NIH/NINDS (1R01EY030183-01). Determining the role of CLN3 in the eye. Singh, Raluca (PI). 04/01/19-03/31/24. Role: Co-I
- ForeBatten. Identifying potential molecular therapies for the treatment of CLN3-Batten disease (small molecules, anti-sense oligonucleotides). Weimer, Jill (PI). 05/06/2019-05/06/2021. Role: PI

Presentations

Oral
- Translational Research Conference for the management of NCLs, Lombard IL, November 7, 2019. A multimodal approach to identify clinically relevant parameters to monitor disease progression in preclinical models of lysosomal disorders.
• Conference for Int. Collaborative Forum for Gene Therapy of Genetic Diseases, Tokyo, Japan; 01/15/20. Combining Innovative Protein Engineering with Gene Therapy to Tackle Lysosomal Storage Disorders.
• 17th National NCL Congressy, Hamburg, Germany; 12/09/19. Therapeutic Strategies for CLN3-Batten Disease.

Posters
• 49th Annual Society for Neuroscience Meeting, October 19-23, 2019. The role of neurofibromin in neurocognitive impairment, CNS cell function, and differentiation in a porcine model of Neurofibromatosis Type 1 (NF1). Swier, VJ, White, KA, Negrao de Assis, P, Moutal, A, Khanna, R, and Weimer, JM.

**Professional, Clinical and Volunteer Service**

Sanford’s Research Division remains committed to the scientific community and public health at large through professional service, leadership and committee work within USD-SSOM, Sanford Research, Sanford Health, professional memberships, societies and scientific peer review processes. Individual faculty and their awards and professional service contributions are noted below in alphabetical order.

**Michelle Baack**

**New Promotions/Appointments**
- Dr. Baack was promoted to Associate Scientist in Environmental Influences on Health and Disease Group at Sanford Research and appointed as Sanford’s Division Chief of Research, Department of Pediatrics, USD-SSOM.

**USD-SSOM**
- USD-SSOM, Department of Pediatrics, Co-Division Chief Research, 2020-present
- Medical School Admissions Committee, 2020-present
- USD-SSOM Pediatric Residency Committee, 2011-present

**Sanford Research**
- Sanford’s Division Chief of Research, USD-SSOM, Department of Pediatrics
- Sanford Profile Clinical & Scientific Advisory Board
- Sanford Investigational Review Board #3. Role: Pediatric consultant

**Clinical Trial Leadership**

Dr. Baack is the Sanford Health site PI for NICHD-Neonatal Research Network and oversees the following NRN studies:
- Cycled Phototherapy: A Safer Effective Method to Control Serum Bilirubin of Extremely Premature Infants? 2020-present. Role: NRN Site PI and sub-I with Dr. Baiba Steinbrekera
- Pragmatic, Randomized, Blinded Trial to Shorten Pharmacologic Treatment of Newborns with Neonatal Opioid Withdrawal Syndrome (NOWS). 2020-present. Role: NRN Site PI and sub-I with Dr. Akram Khan.
- Randomized Controlled Trial of Home Therapy with Caffeine Citrate in Moderately Preterm Infants with Apnea of Prematurity (MoCHA) Trial). 2019-present. Role: NRN Site PI and sub-I with Dr. Suzanne Reuter.
- Management of the Patent Ductus Arteriosus in Premature Infants (PDA) Trial. 2018-present. Role: NRN Site PI and sub-I with Dr. Baiba Steinbrekera
- Darbepoetin to Improve Red Cell Mass and Neuroprotection in Preterm Infants and Reticulocyte Prediction Model add on study. 2018-present (finished enrolling in 2019, ongoing follow-up). Role: NRN Site PI and PI.
- Milrinone in Congenital Diaphragmatic Hernia. 2017-present. Role: NRN Site PI and PI.
- A Randomized Trial of Targeted Temperature Management with Whole Body Hypothermia for Moderate & Severe Encephalopathy in Premature Infants 33-35 Weeks Gestational Age and two
add on studies including MRI and EEG prediction models of NDI. 2017-present (finished enrolling in 2020). Role: NRN Site PI and co-I with Dr. Akram Khan.
• Neurodevelopmental Effects of Donor Human Milk vs. Preterm Formula in ELBW infants (MILK Study). 2017-present. Role: NRN Site PI and co-I with Dr. Jessica White.
• All Birth Cohort (ABC) Study. 2017-present. Role: NRN Site PI and PI.
• Survey of Morbidity & Mortality among High Risk Preterm Infants (GDB). 2017-present. Role: NRN Site PI and PI.
• Additional Clinical & Translational (Non-NRN) Studies:
  • AAP SONPM National Registry for Perinatal COVID-19 Infections. 2020-present. Role: PI
  • International Milk Bank Survey. 2017-present. Role: Sub-I with Dr. Simon Dyall, Bournemouth University, UK.

Sanford Health
• Predictors of adrenal insufficiency in VLBW infants; Conceptualized and initiated project with Co-I (Dr. Jacqueline Grev) and mentored students (Sarah Jackson, Pediatric Resident and Maya Gogoi, USD-SSOM medical student as part of T32 CHIRP Grant. 2019-present
• Dandle Roo positioning blanket and the effectiveness of phototherapy in the NICU, Conceptualized and initiated project with PI (Baiba Steinbrekera) and USD-SSOM medical students. 2019-present

Professional Societies and Memberships
• Society for Pediatric Research (SPR), Member (Elected 2016)
• Perinatal Research Society (PRS), Associate Member (Elected 2015), Full Member (Elected 2019)
• Midwest Society for Pediatric Research (MSPR), Member (Elected 2012)
• American Academy of Pediatrics (AAP), Section on Neonatal-Perinatal Medicine, Member
• American Heart Association, Member
• American Diabetes Association, Member

Professional Service / Leadership
• Associate Editor, American Journal of Perinatology
• 2022 Aspen-Snowmass Perinatal Biology Symposium Planning Committee
• South Dakota Medicaid Advisory Board, Governor appointed position
• South Dakota Medicaid Pharmacy & Therapeutics Committee, Governor appointed position

Peer Review – Journals
• Prostaglandins, Leukotrienes and Essential Fatty Acids (PLEFA), American Journal of Perinatology (AJP), Biology of Sex Differences (BOSD), Oxidative Medicine & Cellular Longevity, Journal of Molecular and Cellular Cardiology, European Journal of Clinical Investigation, Journal of Parenteral and Enteral Nutrition (JPEN), Biology of Sex Differences (BOSD)

Entrepreneurship & Patents
• Three-Dimensional Cross-Linked Scaffolds of Blood Plasma and Their Use. Provisional Patent, 2019 and full patent submission June 13, 2020. De la Puente P; Baack, M; Bhatacharya, S; Gandy, T and Calar, K.

Community / Outreach
• Collaborations in Cardiac Research. Sanford Health News, Sioux Falls, SD

Indra Chandrasekar

Sanford Research
• Institutional Biosafety Committee, Member

Peer Review
• American Society for Cell Biology, Abstract Reviewer for annual meeting
• International Journal of Molecular Sciences, Cells
Randolph Faustino

**Sanford Research**
- Director, Sanford PROMISE Scholars Program, Sanford Research. Leadership role includes oversight on all aspects of the PROMISE Scholars Program. This includes program design, content, administration, and recruitment. Sept 2019 – present

**Professional Service**
- Guest Editor, Cells. Responsible for establishing aim and scope of a special issue of Cells focused on the theme of Cardiac Diseases and Stem Cell Modeling (provisional). Aug 2020 (ongoing)
- Editorial Board Member (Review Editor), Frontiers in Physiology (Striated Muscle Physiology Section). Roles include reviewing journal submissions to ensure proper scientific rigor, engaging with the authors, Associate Editor and other Review Editors. June 2020 – present

**Peer Review – Journals**
- 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, Development, Pharmaceuticals

Kevin Francis

**Awards**
- NIH Loan Repayment Award for Pediatric Research, NCATS, 2019 - 2020
- Best Poster Award, Bethany Freel, USD CBBRe Annual Symposium, 2019
- USD Center for Brain and Behavior Research Travel Award, Ruthellen Anderson and Jordan Sheets, 2019

**USD-SSOM**
- USD Basic Biomedical Sciences (BBS) Graduate Committee. Role: Member
- USD-SSOM Research Committee. Role: Member
- USD BBS Graduate Student Committee. Role: Faculty Advisor
- USD Center for Brain and Behavior Research. Role: Peer Reviewer

**Sanford Research**
- Sanford Research Graduate Research committee. Role: Member
- Sanford Research Seminar Series coordinator. Role: Member
- Sanford Program for Undergraduate Research (SPUR). Role: Selection Committee Member
- Sanford Research Coordination of Rare Diseases (CoRDS) Scientific Advisory Committee. Role: Member

**Professional Service**
- Smith-Lemli-Opitz/RSH Foundation Medical Advisory Board
- IMAGEN: Biomaterials in South Dakota, Research & Development Collaboration Grant from SD Board of Regents. Role: Advisory Board Member
- Society for Neuroscience. Role: Member
- International Society for Stem Cell Research. Role: Member

**Peer Review – Journals**
- PLOS Genetics, Scientific Reports, Journal of Steroid Biochemistry and Molecular Biology, Cellular and Molecular Life Sciences, International Journal of Medical Sciences

**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.

Kurt Griffin

**New Promotions and Appointments**
- Dr. Griffin was appointed to the Todd & Linda Broin Chair for Diabetes Research and promoted to Scientist at Sanford Research in the Diabetes Group.
USD-SSOM
- USD-SSOM, Department of Pediatrics Research and Education Committee, 2014-present.
- USD Pediatrics Mentoring Committee: July 2015-Present

Sanford Research
- Sanford Research IRB-3. April 2014–Present
- Sanford Research Faculty Search Committee. April 2014–Present
- 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. 2016–2019

Clinical Trial Leadership
- NCT02734277. Immune Tolerance Network. July 2017 – Present. Type 1 Diabetes Extension Study (TIDES). Role: Site PI
- NCT02748018. CEP-304, Medtronic, Inc. 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. Role: Site PI
- NCT03751007. Inrecxon, Inc. Intrecxon 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). Role: Site PI.
- NCT03929601. Diabetes TrialNet. TN-25: RAPTOR: Rituximab Followed by Abatacept for Prevention or Reversal of Type 1 Diabetes. Study-wide enrollment suspended pending COVID-19 considerations. Role: Study start up 2020, Site PI.

Sanford Health
- Sanford Enterprise Diabetes Council: 2016–Present

Professional Service
- Pediatric Endocrine Society: Diabetes Special Interest Group, 2018 – Present. Role: Co-Chair (Lawson Wilkins)
- Helmsley Charitable Trust / Milken Institute. Role: Advisory board member for Type 1 Diabetes screening program development

Peer Review – Journals
- Journal of Clinical Endocrinology and Metabolism, Endocrine-Related Cancer, Molecular Endocrinology, PLoS One

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

Michael Kareta

Sanford Research
- Sanford Foundation Pilot & Feasibility Grant Review Committee (ad hoc)

Sanford Health
- Sanford Health Genomics Tumor Boards, Member, Genomics Advisor (twice weekly)

Professional Service
- UND Dakota Cancer Collaborative on Translational Activity (DaCCoTA) Scholars Grant (ad hoc)
• UND Dakota Cancer Collaborative on Translational Activity (DaCCoTA) COVID-19-Related Pilot Grant (ad hoc)

Peer Review – Journals
• Oncogene, Scientific Reports, British Journal of Cancer, Communications Biology

Community / Outreach
• PROMISE Lab, volunteer instructor

Attila Kovacs

Sanford Research
• Sanford IACUC Committee. Role: Member, Chair

Lance Lee

USD-SSOM
• Promotions Primary Review Committee, Department of Pediatrics
• Research & Scholarship Day Abstract Review Committee, Department of Pediatrics
• Graduate Committee, Basic Biomedical Sciences
  a. G-RISE T32 Executive & Admissions Committee, 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
• Sanford fit/PROMISE Steering Committee
• 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

Professional Service
• Graduate Advisory and Research Committee, Department of Chemistry & Biochemistry, SDSU

Professional Society Membership
• American Society for Cell Biology
• American Thoracic Society
• International Mammalian Genome Society (through 2019)
• South Dakota Academy of Science (through 2019)

Peer Review - Journals
• Science, Disease Models and Mechanisms, Neurology: Genetics, Journal of Human Genetics, PLOS Genetics, Andrologia

Peer Review - Grants
• Hydrocephalus Association, USA
• Biotechnology and Biological Sciences Research Council, United Kingdom

Community / Outreach
• Sanford Research Responsible Conduct in Research Series: “Engaging with the Community”. 2019
• Sanford Research manuscript writing workshop: “Basics of Scientific Writing: Writing with Clarity”. 2019.

Santiago Lopez

Sanford Research

Clinical Trial Leadership
Study submission and start-up:
• Seqirus: Comparison of Inactivated Cell based vs Egg based Influenza vaccine
• DaCCoTa Pilot-COVID-19: Comparison of antibodies against SARS-CoV-2 in cancer and non-cancer pediatric patients in South Dakota
• Pfizer: Evaluation of Streptococcus pneumonia colonization and COVID-19

Sanford Health
• Unit-based Safety program for central line infection reduction; Sanford Health, Sioux Falls, SD. Role: Member, Chair
• Antimicrobial Stewardship, Sanford Children's Hospital, Sioux Falls, SD. Role: Co-Director

Peer Review - Journals
• Journal of the Pediatric Infectious Diseases Society, AAP, Pediatrics

Community / Outreach
External Advisor for the Sioux Falls School District

Samuel Milanovich

Sanford Research
• Sanford Research Institutional Biosafety Committee (IBC, January 2015 – September 2019, ad-hoc member October 2019-present)
• Sanford Regenerative Medicine Initiative (February 2015 – present). Role: Steering committee member
• Sanford Cancer Genomics Steering Committee (May 2016 – present) to guide Sanford Cancer Center in most effectively incorporating the evolving field of genomics into clinical cancer care. Role: Steering committee member
• Sanford Children’s Genomic Medicine Consortium (April 2015 – present). This is a national consortium of children’s hospitals to advance clinical genomic applications in the field of pediatrics. Role: Research committee member
• Clinical Research Leadership
• Children’s Oncology Group, Sanford Health Fargo. Role: Institutional PI, open and oversee the conduct of therapeutic, biologic and observational studies in this international childhood cancer research consortium
• Cancer Stem Cells in Childhood Leukemia, Sanford Research. Translational research project developing a clinically annotated biorepository of leukemia specimens from children and young adults diagnosed with leukemia. Role: PI
• AML16, National Collaborative Clinical Trial consisting of 10 children’s hospitals for children and young adults with newly diagnosed AML. Role: Institutional PI
• CTR CAR T-cells: Biomanufacturing of Safe and Non-Viral CAR T-cells for Cancer Immunotherapy. Collaborative study between Sanford Research and North Dakota State University investigating novel mechanisms for leukemia immunotherapy. Role: Co-I
• COMPASS: Clinical Oncology Observational Study in Sanford Adult and Pediatric Cancer Programs to use molecular profiling of tumors to provide “personalized” cancer treatment. Role: Co-PI (PI: Powell)
• 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. Role: Institutional PI
• Chemotherapy Induced Peripheral Neuropathy in Developmentally Delayed and Younger Children with Cancer. We aim to describe 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. Role: Co-I
• A Randomized Open-Label, Active Controlled, Safety and Descriptive Efficacy Study in Pediatric Subjects Requiring Anticoagulation for the Treatment of a Venous Thromboembolic Event (Pfizer). Industry study investigating safety and efficacy of new generation anticoagulant medication in adolescents, children, infants and neonates. Role: Institutional PI
• Evaluation of Long-Term Safety in Paediatric Patients with B-Precursoer Acute Lymphoblastic Leukemia Who Have Been Treated with Blinatumomab or Chemotherapy, Followed by Transplantation. Industry registry study of long-term outcomes for patients treated with blinatumomab who go on to transplant. Role: Institutional PI: 20180130
Professional Service
- 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. (September 2017 – present)

Peer Review – Journals
- Bioscience Reports, Epigenomics

Peer Review - Grants
- Biomedical Research Centre, Rare Diseases Cohort Theme, Great Ormond Street Hospital, London, UK. Role: Ad hoc grant peer reviewer

Sanford Health
- Sanford Physician’s Care Committee (January 2015 – September 2019). Role: Member
- Sanford Blood Product Utilization Committee (Sioux Falls, January 2015 – September 2019). Role: Member

Thayne Munce

USD-SSOM
- Sanford Black Hills Pediatric Symposium Planning Committee. Role: Member
- USD Center for Brain and Behavioral Research (CBBRe) Steering Committee. Role: Member

Sanford Health
- Sanford Sports Medicine Symposium Planning Committee, Sanford Orthopedics and Sports Medicine, Sioux Falls, SD. Role: Planning Committee Member
- Helped develop DXA body composition offering at Sanford USD Medical Center

Professional Service
- American College of Sports Medicine. Role: Fellow
- Northland Chapter of the American College of Sports Medicine. Role: Member
- Sports Medicine Advisory Committee, South Dakota High School Activities Association (SDHSAA). Role: Member
- Leadership Board, National Youth Sports Health and Safety Institute (NYSIH). Role: Member
- Strategic Health Initiative (SHI) - Youth Sports and Health Committee, American College of Sports Medicine. Role: Member

Peer Review
Abstract Reviewer, Northland Chapter of the American College of Sports Medicine, Student Poster Competition

Community / Outreach
- Expert Commentator / Creative Director, Science of Sports series, Midco Sports Network, Sioux Falls, SD
- Expert Interview – “Build Your Base with Beef”, May 20, 2020, Cattle Business Weekly (Online), Philip, SD
- Featured Guest – “Sports Training, Injuries and Recovery”, May 5, 2020, KELOLAND Living, KELO TV / Online, Sioux Falls, SD
- Featured Guest – “Cognitive and Sports Vision Training”, April 14, 2020, Calling All Sports, KWSN Radio, Sioux Falls, SD
- Expert Interview – “Sanford Health Might Conduct Research on Fighters it Pays. Here’s Why That Could Be a Problem”, November 7, 2019, Inforum (Online), Fargo, SD
- Expert Interview – “Football Participation Declines in S.D. and U.S. as Brain Injury Research Expands”, October 2, 2019, SD News Watch (Online), Sioux Falls, SD
- Expert Interview, “Build Your Base with Beef”, August 28, 2019, Healthbeat, KELO TV Evening News, Sioux Falls, SD
- Featured Studio Guest – “NSAF Performance Clinics”, August 9, 2019, Innovations, South Dakota Public Radio, Sioux Falls, SD
- Featured Guest – “Youth Football Research”, August 8, 2019, Overtime with Jeff Thurn, ESPN 99.1 Radio, Sioux Falls, SD

David Pearce

Sanford Research
• President, Innovation, Research and World Clinics
• Transdisciplinary approaches to American Indian and rural population health research CoBRE, Sanford Research, 2017-2022. Role: Internal Advisory Committee

Professional Service & Leadership
• RxRE Leader Forum, 2020-present. Role: Member
• RARE-X, 2019-present. Role: Board Member, Scientific Advisory Board
• Haley’s Heroes Foundation at The Giving Back Fund, 2018-present. Role: Scientific Advisory Board Member
• ForeBatten, 2018-present. Role: Chair, Scientific Advisory Board
• CureBatten CLN8 – Sebastian Velona Foundation at The Giving Back Fund, 2017-present. Role: Scientific Advisory Board
• Fight for Batten Foundation, 2017-present. Role: Member, Chair of the Scientific Advisory Board
• Beat Batten’s Foundation, 2017-present. Role: Scientific Advisory Board
• Clinical Center of Excellence for Rare Diseases, Perth Children’s Hospital, 2020-present. Role: Board Member
• Alliance for Cell Therapy Now (ACT-NOW), 2018-present. Role: Board Member
• Developmental Research Program for Medical Students grant, T35, South Dakota, 2017-present. Role: Member, Internal Advisory Committee
• Sanford Stem Cell Consortium, 2017-present. Role: Scientific Advisory Board
• National Registry for Cell Therapy, 2017-present. Role: Steering Committee Member
• Dakota Lions Sight and Health, 2017-2019. Role: Board Member
• North Dakota Established Program to Stimulate Competitive Research (ND Epscor), Fargo, ND, 2020
• Fifth International Vatican Conference – Exploring the Mind, Body & Soul, Unite to Present & Unite to Cure, Vatican City, 2020. Role: Steering Committee
• IRDiRC Working Group 3: Methodologies that Impact Diagnosis and Treatment, Paris, 2020. Role: Chair
• World Stem Cell Summit, Miami, USA, 2020. Role: Advisory Board
• Advanced Therapies Congress & Expo 2020, London, April 2020. Session Chair “Innovation Track”
• Rare Diseases and Orphan drugs Congress, Buenos Aires, March 2020. “The International Rare Diseases Research Consortium (IRDiRC): Reaching out to Policy Markers on Rare Diseases” and “Team Science: Integrating Natural Histories into EHRs for more Accurate Diagnosis”
• RE(ACT) Congress and IRDiRC Conference 2020, Berlin, March 2020. Session Chair “Methodologies to Assess the Effect of Diagnosis and Therapies on RD Patients”
• World Stem Cell Summit, Miami, January 2020. Session Chair “Update from the Innovators – Neurology and Aging Diseases”

Peer Review – Grants
• Ad Hoc reviewer, ZNS1 SRB-T (43) SEP (March 2020)
• NCATS Special Emphasis Panel PAR-18-952 and PAR-18-953 (September 2019)
Kyle Roux

Sanford Research
- Senior Director, Sanford Research

Professional Service
- Journal Editorial Board, Cells, 09/03/2019-present

Peer Review – Journals
- Invited referee for numerous journals with an estimated 35 articles reviewed

Peer Review – Grants
- Israeli-US Binational Science Foundation (02/2020)
- NIH Pioneer Award Program (01/2020)

Alexei Savinov

Sanford Research
- Flow Cytometry Core. Role: Director
- Data Club committee. Role: Co-Chair

Professional Memberships
- American Association of Immunologists. Role: Member
- American Diabetes Association. Role: Member
- Immunology of Diabetes Society. Role: Member

Peer Review – Journals
- Diabetologia, Diabetes, Journal of Immunology, PLOS One, JBC, Molecular Endocrinology

Peer Review – Grants
- DOD US Army Medical Research and Materiel Command (USAMRMC) Congressionally Directed Medical Research Programs (CDMRP). Role: Study Section Member

Arielle Selya

Awards

USD-SSOM
- Sanford Research Postdoctoral Professional Development Committee. Role: Member, 01/2019 – 07/2020
- Sanford Research Recruitment Committee. Role: Member, 06/2019 – 07/2020
- Sanford fit/PROMISE Steering Committee. Role: Member, 06/2019 – 07/2020
- Sanford SPUR Admissions Committee. Role: Member, 06/2019 – 07/2020

Sanford Research
- Data Exchange Core. Role: Director

Professional Service
- System Dynamics Society
- Society for Nicotine and Tobacco Research

Peer Review – Journals

Community / Outreach
- CBS News Radio, pre-recorded interview, November 4, 2019
Kameswaran Suren

Sanford Research
- Graduate Student Selection Committee Member
- IACUC Scientific Member
- Internal Advisory Committee Member for Pediatrics CoBRE
- Faculty Leadership and Promotions Committee Member
- Co-Director of Functional Genomics and Bioinformatics Core
- Faculty Search Committee

Professional Service
- American Society of Nephrology (ASN) 2019 Annual Meeting Abstract Reviewer for “Development, Stem Cells, and Regenerative Medicine” category
- ASN Co-moderator of “Development and Stem cells” session, Washington DC, 2019

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

Peer Review – Journals

Peer Review – Grants
- NIDDK Special Emphasis Panel Grant Reviewer

Jianning Tao

USD-SSOM
- USD-SSOM Department of Pediatrics, Grand Rounds Reviewer Panel (research representative)
- USD Sanford School of Medicine SSOM faculty grants reviewer

Sanford Research
- Sanford Research IBC Committee, 09/2019- present. Role: Member
- Diversity of Graduate Student Education Committee. Role: Chair, Member
- Sanford Research Faculty Search Committee, Role: Member

Peer Review – Journals
- Nature Cell Biology, OncoTargets and Therapy, BONE

Peer Review – Grants
- Geographical Management of Cancer Health Disparities Program, NCI; GMaP6 Pilot Grant Program, Region 6. Role: Grant Reviewer

Jill Weimer

USD-SSOM
- USD-SSOM Faculty Development Committee. Role: Member, 7/2017-Present
- USD-SSOM, Department of Pediatrics Awards Committee. Role: Member, 5/2018; 5/2020
- USD-SSOM Student Progress and Conduct Committee. Role: Member, 7/13- 6/2016; 7/2017 – 8/2019

Sanford Research
- Center for Pediatric Research (NIH CoBRE) Internal Advisory Committee. Role: Member, 4/15-present
- Coordination of Rare Diseases at Sanford (CoRDS) Advisory Committee. Role: Member, 1/18-present
- Faculty Appointment and Promotions Committee. Role: Member, 3/2015-Present
- Faculty Advisory Committee. Role: Member, 3/2018-Present
- Faculty Search Committee. Role: Member, 01/11-Present

Professional Service
• Society for Neuroscience Annual Conference 2020 – Mini-symposium “RASopathies: Pathophysiology and Therapeutic Directions”. Role: Symposium Co-Chair, (Delayed to 2021 due to COVID-19 Pandemic)
• NIH Workshop on Validation of Animal Models and Tools for Biomedical Research. Role: Conference Co-Organizer/Session Chair, 12/8-9/2020 (Virtual)
• 5th Translational Research Conference for the management of the NCLs. Role: Conference Organizer/Chair, 11/7-8/2019
• Children’s Tumor Foundation NF Conference, San Francisco, CA. Role: Conference Organizing Committee/Co-Chair, 11/21-24/2019

Peer Review – Journals
• Molecular Psychiatry, Orphanet Journal of Rare Disease, Journal of Visualized Experiments, PLOS ONE, Frontiers in Cellular Neuroscience, Molecular Neurobiology, Brain

Peer Review – Grants
• NIH Neurodevelopment, Synaptic Plasticity, and Neurodegeneration Study Section (F03A). Role: Review Committee Member, 7/2017-present
• MSD Action Foundation, Ireland. Role: Reviewer, 3/2020
• Children’s Tumor Foundation’s Drug Discovery Initiative Grant. Role: Reviewer, 2/2020

Community / Outreach
• Children’s Tumor Foundation Shine a Light Walk for South Dakota. Role: Honorary Chair, 2020
• Don’t Forget Morgan (BPAN Foundation). Role: Scientific Advisory Board, 2020-present
• ForeBatten (CLN3 Batten Foundation). Role: Scientific Advisory Board, 2019-2020

AVERA

Jyoti Angal

Scholarly Activity Publications
Grants Awarded

- **South Dakota Pediatric Clinical Trials Network (SoDakPCTN)**
  UG1OD030019
  Source: NIH/Office of the Director
  Start & End Dates: 09/01/2020 – 08/31/2025
  Funding: $1,904,664
  Multi-P.I.: Amy Elliott, Ph.D. & Katherine Wang, MD
  Role: Co-Investigator
  Project Statement: The purpose of the South Dakota Pediatric Clinical Trials Network (SoDakPCTN) is to leverage the enthusiasm and growth in pediatric research over the last decade to build regional capacity and skills in clinical trials.

- **Environmental Influences on Child Health Outcomes in the Northern Plains Safe Passage Study Cohort – Phase II (UH3 OD023279)**
  Supplement – Ethics
  Source: NIH/Office of the Director/Office of Women’s Health
  Supplement PI – Jyoti Angal, MPH
  Grant PI – Amy Elliott, PhD
  Project Statement: The overall goal of this proposal is to explore factors affecting return of individual results to participants. The grant will explore whether participants’ perception of risk associated with accepting individual results of research is different from those of IRBs and investigators.

Presentations

Local

National
- Angal, J. (July 2020). Exploring the Principles of Justice in research: Considerations for Tribal communities. Secretary’s Advisory Committee on Human Research Protections. July
- Angal J. (August 2020). Return of Research Results. Environmental Child Health Outcomes Advisory Board

Abstracts

Arielle R Deutsch, PhD

Scholarly Activity Publications

Grants Awarded

- **Title: Community Based System Dynamics Models of Alcohol and Substance Exposed Pregnancy in Northern Plains American Indian Women**
  Source: NIH (NIDA)
  Start & End Dates: 2020 – 2024
  P.I.: Arielle R. Deutsch
Title: Leverage Points for Equitable Systemic Change to Reduce Alcohol Exposed Pregnancy
Source: NIH (NIGMS) Center PI: Jill Wiemer
Project PI: Arielle R. Deutsch 2021 – 2022

Presentations

Service
Professional
Editor
- Developmental Psychology, Consulting Editor
Committee Service
- Member, Great Plains IDeA Community Translational Research Community Advisory Board
- Member, Oglala Lakota Children’s Justice Center Advisory Board
- Member, Interdisciplinary Research Committee, Society of Research on Adolescence

Amy J Elliott, PhD

Teaching
Mentoring
- Internal Medicine Residents, University of South Dakota School of Medicine
- Nevada Sorenson (Pathways), USD Sanford School of Medicine
- Kenzie Lee (Pathways), University of South Dakota School of Medicine

Scholarly Activity
Publications


**Grants Awarded**

- **Title**: South Dakota Pediatric Clinical Trials Network (SoDakPCTN)  
  UG1OD030019  
  Source: NIH/Office of the Director  
  Start & End Dates: 09/01/2020 – 08/31/2025  
  Funding: $1,904,664  
  Multi-P.I.: Amy Elliott, Ph.D. & Katherine Wang, MD  
  Project Statement: The purpose of the South Dakota Pediatric Clinical Trials Network (SoDakPCTN) is to leverage the enthusiasm and growth in pediatric research over the last decade to build regional capacity and skills in clinical trials.

- **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.

- **UH3 Phase**  
  Start & End Dates: 9/01/2018 – 8/31/2023  
  Amount Funding: $17,430,034  
  Supplement – Reentry into Biomedical and Behavioral Research Careers (Sania – supplement PI)
Supplement – Ethics (Angal – supplement PI)
Funding: $290,000

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) & Eunice Kennedy Shriver National Institute for Child Development (NICHD)
Project Period: 09/30/2019 – 3/31/2021
Funding: $503,589
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.

Supplement – Maternal Mortality supplement (Lucchini – supplement PI)
Funding: $193,812

Presentations
Oral

Service
- Avera Research Institute
- Committee service
- 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
Grant reviewer
- NIH COBRE, NARCH, special emphasis study sections
Committee service
- Member, External Advisory Committee, NIH Infant and Toddler Toolbox project: 2020 – present (nominated position)
- Co-Chair, Study Design Working Group, hBCD Research Network: 2019 – present (NIH appointed position)
- Co-Chair Cohort Representative, ECHO Executive Committee: 2019 – present (cohort peer nominated position)
- Patient Centered Outcomes Research Partnership (PCORP) Advisory Board, University of Washington: 2016 - present
- Advisory Board Member, Healthy Native Babies Project, National Institutes of Health: 2016-present
- Regional
- Board Member, American Cancer Society, Midwest Division State Leadership Board: 2015 - present
- Member, Center for Brain and Behavior Research, University of South Dakota: 2015 - 2020

Christine Hockett, Ph.D.

Teaching
- Healthcare Profession Students (Graduate Students)

Mentoring
- Addison Reimer, Thesis Committee, Maters in Nutrition and Exercise Science, South Dakota State University, expected graduation May 2021

Scholarly Activity
Publications

Grants Awarded

• UG1OD030019 (Elliott, Wang), NIH Office of the Director
  09/1/2020 – 08/31/2025
  South Dakota Pediatric Clinical Trials Network (SoDakPCTN)
  The purpose of the South Dakota Pediatric Clinical Trials Network (SoDakPCTN) is to leverage the enthusiasm and growth in pediatric research over the last decade to build regional capacity and skills in clinical trials. Given the level of health disparities in our region, particularly amongst the AI populations, coupled with the remote nature of our rural communities, a mechanism for development of pediatric clinical trials research will not only grow pediatric research, it will improve health of children in South Dakota.
  Role: Co-Investigator, Junior Faculty

• UH3OD023279 (Elliot), NIH Office of the Director
  09/01/2020 – 08/31/2021
  Capturing participant behavioral changes in relation to COVID-19 and how they relate to ECHO primary Outcomes: This ancillary study focuses on how COVID and its related societal changes, while necessary, may alter children’s dietary intake, physical activity, screen time and sleep in ways that accelerate the rise in obesity.
  Role: Co-Investigator

• R34DA050288 (Elliott), NIH, National Institute for Drug Abuse
  09/30/2019 – 03/31/2021
  The cumulative risk of substance exposure and early life adversity of child health development and outcomes
  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.
  Role: Co-Investigator

• P30 DK092923 (Hockett) CAIANDTR pilot and feasibility project
  08/01/2019 – 07/31/2020
  Spatial Clustering and Associated Determinants of Diabetes in Navajo Youth
  This pilot project is funded by a center grant at the Center for American Indian and Alaska Native Diabetes Translational Research (CAIANDTR), University of Colorado. The objective of the project is to identify spatial clustering of type 2 diabetes in Navajo youth from 2002-2016 and determinants of health associated with the high-risk clusters.
  Role: Principal Investigator, Pilot Project

• R01 DK115434-01 (Dabelea/Sauder) NIDDK
  09/15/2017 – 08/31/2022
  Reducing risk factors for type 2 diabetes in American Indian youth: Tribal Turning Point
  This randomized controlled trial evaluates the effect of a behavioral intervention on diabetes risk factors in 7-10 year old American Indian children across three communities, and explores factors related to participant engagement, program implementation, and potential for sustained delivery.
  Role: Co-Investigator

• UH33OD023279 (Elliott), NIH Office of the Director
  09/01/2016 – 08/31/2023
  Environmental Influences on Child Health Outcomes in the Northern Plains Safe Passage Cohort
  The major goals of the project are to: 1) build upon current mechanisms to retain contact with PASS participants previously consented for future studies, stressing community engagement strategies to ensure long-term participation; 2) work with the ECHO consortium to develop common and site-specific protocols, documents, and procedures. PASS-ECHO brings expertise in the characterization of early life exposures, fetal to childhood physiology, asthma and lower-airway assessments, and neurodevelopmental outcomes; 3) conduct training and feasibility testing on study elements to ensure high quality data collection; and 4) work with the ECHO consortium to harmonize PASS data with other ECHO cohort sites.
  Role: Co-Investigator

• R01 HL126578 (Buckwald) National Heart, Lung, and Blood Institute
  06/01/2015 – 05/31/2021
Diet Intervention for Hypertension: Adaptation and Dissemination to Native Communities
This multi-site randomized controlled trails evaluates the effect of a behavioral intervention on reducing hypertension in Native American adults using a culturally-tailored curriculum around the DASH diet, a low-salt, high potassium, heart-healthy diet.
Role: Site Principal Investigator

Oral Presentations
- Hockett CW, Invited Speaker, Fetal Programming and its role in obesity and diabetes in youth, Avera Health, Department of Pediatrics Grand Round, Oct. 9th 2020
- Hockett CW, Invited Panelist and Speaker, COVID-19 Projections in South Dakota, Project ECHO, University of South Dakota, April 16th 2020

Clinical Service
New Clinics/Programs/Outreach
- Peds 5-2-1-0 Initiative – An initiative with the pediatric service line within the Avera Health system focused on providing educational material and guidance to children on the 5-2-1-0 health initiative. I am an active member of this group.

Volunteer Service
- Director of Community Research, Center for Pediatric and Community Research, Avera Research Institute, Rapid City, SD

Community
- United Way, Day of Caring

Professional
- Publications Committee, Member, Institutional Developmental Award (IDeA) States Pediatric Clinical Trials Network, Sept. 2020 – current
- Co-lead, Obesity Data Harmonization Working Group, Environmental Influences on Child Health Outcomes (ECHO)

Morgan Nelson, MS

Teaching
Medical Students
- Hanna Leschisin - Medical student at the University of South Dakota
- Healthcare Profession Students
- Jennifer Lindgren - Master’s Student at the University of South Dakota.

Undergraduate Students
- Jennifer Lindgren - Master’s Student at the University of South Dakota.

Lecture
Gues Lecture, Internal Medicine Residents. “Interpreting Statistics in Literature, Reading beyond p-values”

Mentoring
Residents
Scholarly Activity

Publications
Published

Presentations
Oral
- Nelson ME. Human Subject Protections: The Statistical IRB Member Prospective. Presentation for Avera Oncology and Health Science Institutional Review Boards. Sioux Falls, SD.
- 2020 Nelson ME. Role of a Biostatistician: Data and Analytics. Presentation for the Avera Academy for high school students investigating health careers. Sioux Falls, SD.

Volunteer Service
- Scientific member – Avera Health Oncology IRB

Other
- Awarded University of South Dakota Honors Program 2020 Alumni Achievement Award.

Ping Ye, PhD

Teaching
Lecture
- PHA 738, Health Informatics, South Dakota State University
- PHA 727, Professional Resources Management, South Dakota State University

Mentoring
- Internal Medicine Residents, University of South Dakota School of Medicine
- Claire Kittuck, MD/PhD student, USD Sanford School of Medicine
- Megan Sommers, Medical student, University of South Dakota School of Medicine
- Michael Wallum, Medical student, University of South Dakota School of Medicine
Scholarly Activity

Publications

Grants

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

Submitted
- The effect of social environment on maternal epigenetics and birth outcomes
  Source: NIH R01
  Role: Principal Investigator

Presentations

Oral
- Risk factors for preterm birth in the Northern Plains. Department of Allied and Population Health. South Dakota State University, Brookings, SD.
- Survival analysis. Department of Internal Medicine, Sanford School of Medicine, University of South Dakota, Sioux Falls, SD.
- Meta-analysis of diagnostic and prognostic test accuracy. Department of Internal Medicine, Sanford School of Medicine, University of South Dakota, Sioux Falls, SD.

Service
- Avera Research Institute
- Committee service
- Chair, CPCR Data Analytics Committee
- Member, Avera Oncology IRB

Professional
- Grant reviewer
- Ad hoc reviewer, NIH ECHO Opportunities and Infrastructure Fund (OIF) Cycle 3 applications
- 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, eSMB2020, the 2020 Society for Mathematical Biology Annual Meeting online
Scientific Committee Member, the 2020 Society for Mathematical Biology Annual meeting joint with the European Society for Mathematical and Theoretical Biology, Heidelberg.
Manuscript/Conference review
Genomics
The 2020 Society for Mathematical Biology Annual meeting joint with the European Society for Mathematical and Theoretical Biology
American Medical Informatics Association (AMIA) 2020 Annual Symposium
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.
- Dr. Ryckman is the Associate Program Director for the USD Sanford School of Medicine General Surgery Residency Program

CME
Lectures
- “Advocacy and Research in Pediatric Trauma.” Pediatric Trauma Symposium. Dr. Ryckman. Oct 7, 2020
- “Pediatric Surgical Emergencies.” Surgery Grand Round. Dr. Keckler. Aug 12, 2020

Programs
Dr. Gorra led the Pediatric Trauma symposium on October 7, 2020

Scholarly Activity
Publications
Dr. Gorra

Dr. Reitsma

Dr. Ryckman
- Stricter Booster Seat Legislation Correlates With Decreased Fatality In Children Ages 4-10 Years Involved In Motor Vehicle Collisions. Accepted for presentation at Pediatric Trauma Society Annual Meeting, November 2020
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.
- Dr. Gorra is the Medical Director of the Pediatric Trauma Program.
- The Pediatric Trauma program received re-verification by the American Board of Surgery as a Level 2 Pediatric Trauma program.

Innovative Clinical Services
Projects:
- Nuss Procedure formalized pathway including standard pain control protocol
- Gastrochisis feeding guideline for the neonate
- 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
## CONTINUING MEDICAL EDUCATION (CME)
### PEDIATRICS GRAND ROUNDS

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker/Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/4/2019</td>
<td>Cancelled for 4th of July Holiday</td>
</tr>
<tr>
<td>7/18/2019</td>
<td>Dr. Shalome Dsouza <em>Stroke in a Pediatric Hospital: What Now?</em></td>
</tr>
<tr>
<td>7/25/2019</td>
<td>Dr. James Jaggers <em>Regenerative Therapy in Pediatric Cardiac Disease</em></td>
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<tr>
<td>8/1/2019</td>
<td>No Pediatric Grand Rounds</td>
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<tr>
<td>8/15/2019</td>
<td>No Pediatric Grand Rounds</td>
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<tr>
<td>8/22/2019</td>
<td>No Pediatric Grand Rounds</td>
</tr>
<tr>
<td>8/29/2019</td>
<td>Dr. Fernando Bula-Rudas <em>Safeguarding the future: Pediatric Antimicrobial Stewardship Programs</em></td>
</tr>
<tr>
<td>9/5/2019</td>
<td>Dr. Eric Trumble <em>Pediatric Neurotrauma</em></td>
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<tr>
<td>9/19/2019</td>
<td>Dr. Jerome Freeman <em>Kindness and the Medical School</em></td>
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<tr>
<td>9/26/2019</td>
<td>Dr. Shawna Young - Resident <em>Resiliency in the Face of Adversity</em></td>
</tr>
<tr>
<td>10/3/2019</td>
<td>Dr. Aimee Koenig - Resident <em>Impact of Media Use on Children and Youth</em></td>
</tr>
<tr>
<td>10/17/2019</td>
<td>Dr. Mark Beard, MD, MHA <em>The Future Medical Educator</em></td>
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<tr>
<td>10/24/2019</td>
<td>Dr. Sandra Peynado <em>Pediatric ADHD Psychopharmacology Update</em></td>
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<tr>
<td>10/31/2019</td>
<td>No Pediatric Grand Rounds</td>
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<tr>
<td>11/7/2019</td>
<td>Dr. Michael Turner - Resident <em>Suddenly On-Call: Flying as a Pediatrician</em></td>
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<tr>
<td>11/21/2019</td>
<td>Dr. Kurt Eeg <em>Pediatric Urology Review</em></td>
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<tr>
<td>11/28/2019</td>
<td>Cancelled for Thanksgiving</td>
</tr>
<tr>
<td>12/5/2019</td>
<td>Cory Brown, MA <em>Public Policy 101</em></td>
</tr>
<tr>
<td>12/19/2019</td>
<td>Dr. Molly Linn - Resident <em>The Times They Are a Changin’: How Childhood Has Changed in Recent Decades</em></td>
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<tr>
<td>12/26/2019</td>
<td>Cancelled for Holidays</td>
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<tr>
<td>1/2/2020</td>
<td>Cancelled for Holidays</td>
</tr>
<tr>
<td>1/9/2020</td>
<td>Dr. Sarah Jackson - Resident <em>Understanding Wellness and Burnout for Residency and Beyond</em></td>
</tr>
<tr>
<td>1/23/2020</td>
<td>Dr. Pilar de la Puente <em>The tumor microenvironment</em></td>
</tr>
<tr>
<td>1/30/2020</td>
<td>No Pediatric Grand Rounds</td>
</tr>
<tr>
<td>2/6/2020</td>
<td>Dr. Jared Daniel <em>Pediatric Fractures – “when to splint, cast, or refer?”</em></td>
</tr>
<tr>
<td>2/20/2020</td>
<td>Dr. Santiago Lopez <em>Native American Indian children and Lower Respiratory Tract Infection (LRTI)</em></td>
</tr>
<tr>
<td>2/27/2020</td>
<td>Dr. Isum Ward <em>Care for the Child with Achondroplasia</em></td>
</tr>
<tr>
<td>3/5/2020</td>
<td>Dr. Tim Ridgway <em>Finding Meaning and Joy in Our Work: VITALITY</em></td>
</tr>
</tbody>
</table>

*3/19/20 – 6/25/20 Pediatric Grand Rounds were cancelled due to COVID-19*
2019-2020 DEPARTMENTAL AWARDS

DISTINGUISHED RESEARCHER AWARD—Dr. Kameswaran Surendran
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. Michelle Schimelpfenig
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—Drs. Molly Linn and Bryan Blacker
This award is given to a graduating resident who is recognized as the pediatric resident who consistently demonstrated excellence and commitment to Pediatric Medical Education.
EXCELLENCE IN PEDS AWARD—Dr. Tyler Sternhagen
This award is given annually to a medical student who consistently demonstrates excellence in and commitment to the field of Pediatrics.