

University of South Dakota Sanford School of Medicine

Department of Pediatrics

Annual Report

2022-2023





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Chair Letter

It is an honor and pleasure to share the 2022-2023 Department of Pediatrics Annual Report which highlights the many accomplishments of the department's 276 faculty, 17 residents, 100's of students, and the administrative team who work together with the overarching goal to improve child health and wellbeing through education, scholarship, and service. The department's vision is "Connecting Care for SD's Kids" which emphasizes our united focus on children as we work to advance the University of South Dakota Sanford School of Medicine's (USD SSOM) vision of "Together in teaching, innovation and compassion". This annual report summarizes and highlights the 2022-2023 accomplishments within each piece of our mission. If you are a part of Pediatrics, you can take immense pride in the breadth and depth of work you do on behalf of each other, our students, and most importantly children and their families. Thank you so much for shaping a better future for our kids!

Michelle L. Baack, MD
Professor & Chair of Pediatrics
The University of South Dakota
Sanford School of Medicine
1400 W. 22nd St., Sioux Falls, SD
Michelle.Baack@usd.edu



Vision

The Department of Pediatrics at The University of South Dakota Sanford School of Medicine will be 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

The Mission of the Department of Pediatrics at The University of South Dakota Sanford School of Medicine 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 University of South Dakota Sanford School of Medicine 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 valued and respected in our department.

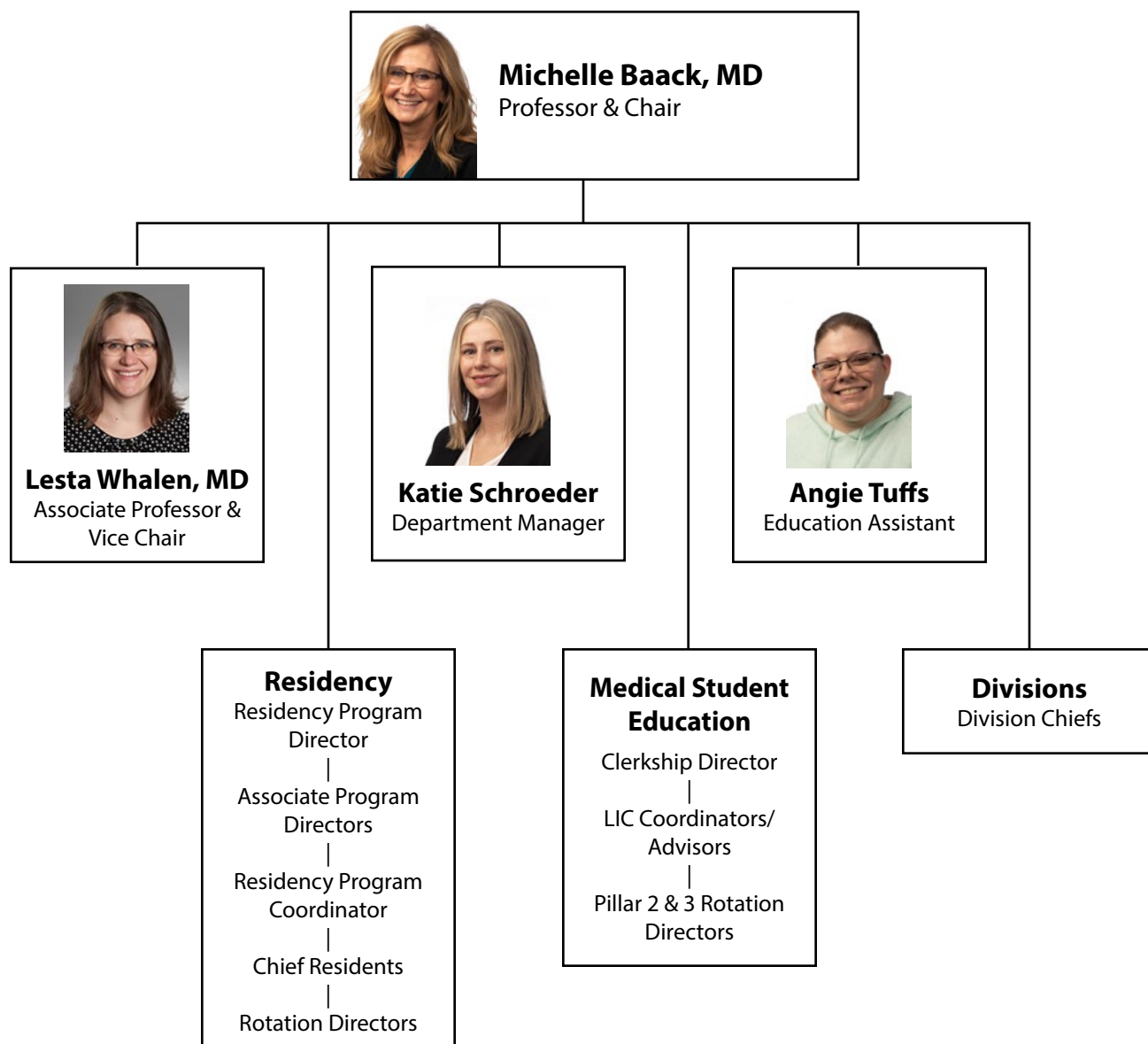
Goals

1. To stand united in the goal of improving the health and wellbeing of children of South Dakota and through compassionate, exemplary health care, medical education, research, and advocacy.
2. To provide high-quality pediatric education at the undergraduate (medical student), graduate (resident and fellow) and faculty (continuing professional development) level.
3. To advance the field of pediatrics through innovation including basic, translational, clinical and population health 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.

Together

In 2022-23, the Department of Pediatrics grew to 276 faculty members (up from 256) across 43 sites (up from 42) and 21 Divisions (up from 20). We hope to continue this growth with 24 new pediatricians or subspecialists recruited to the region. The department's administrative and leadership team welcomed Ms. Katie Schroeder as the Department Manager. Katie joined Ms. Angie Tuffs, who directs education and recipient of the Civil Service Award. They helped pull off creative "togetherness" efforts including a Holiday Mixer, Pediatric Research and Scholarship Day, Awards Ceremony, many visiting speakers, symposia and educational sessions. They keep us connected through the department's Monthly Update which reaches 362 people, offering quick link registration for Pediatric Grand Rounds, Journal Club, Faculty Development Series, and Pediatric Topic of the Month didactic learning series. Ms. Schroeder and Ms. Tuffs also enhanced the department's relatively new centralized, online tools for dossier building and data collection for annual performance evaluations, academic development planning, the USD SSOM bibliography and the creation of this incredible annual. With their creative efforts and exceptional communication skills, our response rates have more than doubled with 104 faculty submitting their accomplishments! Their dedication to every member of the department is clearly evident. There are just not enough words to express our gratitude to them for keeping us together.

Meet the Team - Department Organizational Chart



Vice-Chair Letter

Dr. Lesta Whalen, our Vice Chair, brought us closer together with two new mentoring programs including a traditional one-on-one mentorship for academic faculty as well as an innovative team mentoring program that groups participants at every stage of their career to learn from each other and support growth and wellbeing as a small group. Dr. Whalen also leads our Grand Rounds, Faculty Development Series, and the newly formed SD Child Advocacy Network (SD CAN) which directly aligns with our mission of compassion. These efforts have certainly brought us together and following our vision of “Connecting Care for SD’s Kids”. In summary, the department made great strides and remains committed to “togetherness” which enhances diversity, generates fresh ideas, and strengthens our voice for children.



As I have supported the Department of Pediatrics as Vice-Chair, I continue to have the pleasure of focusing on the education and mentoring of our students, staff, and faculty as well as leading development of an advocacy task force for the children of South Dakota. The department Grand Rounds Program continues to invite local and national experts to speak on topics ranging from bench research that is changing the understanding of cellular receptors, to new pediatric developmental milestones, to managing sport-related concussions. Attendance remains high as we continued both virtual and in-person presentation options for enhanced participation. The majority of presentations continue to be recorded and are archived for those unable to participate at the standard time. The Pediatric Faculty Development Series

initially focused on gaining teaching skills for faculty through adult learning theory and serious games in medical education. In the new year we began a four-part Diversity, Equity & Inclusion Series developed by Dr. Kenyon, Associate Dean of Diversity and Inclusion and Kyle Siemers, MD/PhD Student.

Over 2022-2023 I developed a mentoring program for new faculty, which began at the start of the new 2023-2024 academic year, and we are excited to see how this moves forward. This program is one-on-one career mentoring for new physicians to the department who need assistance and guidance navigating the beginning of their career with the University of South Dakota. The department has also developed a group-mentoring program for faculty and Pediatric Resident Physicians at Sanford Health. This too is in its infancy and continues to move forward in the new academic year and I remain excited to see how the program evolves. Over the last year we have also gradually begun to grow an advocacy task force, South Dakota Child Advocacy Network (SD CAN), in order to serve our population in overcoming issues that deter health and wellness. This group is identifying goals and projects over the next months and are excited to get moving with our motivated members.

My hope in 2023-2024 is to take the two mentoring programs forward, changing them as needed to best serve our faculty. SD CAN will continue to grow and develop programs to serve the needs of our families, advocating for policy change, health education and resource availability. We continue to receive recommendations for, and invite, dynamic speakers for Pediatric Grand Rounds and already have an almost full year of great presentations planned. Faculty Development Series will finish the DE&I series and begin a new four-part series centered around emotional intelligence.

I appreciate the dedication each of you show to the Department of Pediatrics in teaching and supporting our medical students and your colleagues.

Sincerely,
Lesta Whalen, MD
Department of Pediatrics Vice Chair
Associate Professor

Faculty & Staff Changes

Together, we celebrated the retirement of two long-standing members, Dr. Stephen Kovarik who served the Rapid City campus as a neonatologist for 40 years and Dr. Larry Fenton who served Sanford Health as a neonatologist and palliative care specialist for 50 years. Dr. Fenton is also a past chair of the department. We are extremely grateful for their dedication and service to babies, families, and colleagues. We also celebrated Dr. Carl Galloway's promotion to Clinical Professor as well as five academic promotions through a rigorous peer review process. Congratulations to Drs. Kevin Francis, Gokhan Olgun, Kayelyn Wagner and Santiago Lopez who were promoted to Associate Professor and Dr. Jody Huber who was promoted to Professor! Together, the department recognized exceptional work through peer-nominated departmental awards: Dedicated Teacher (Dr. Samuel Schimelpfenig), Distinguished Researcher or Scholar (Dr. Lauritz Meyer), Master Clinician (Dr. Christiane Maroun), and the Kindness Initiative Award (Dr. Daniel Mark). The department also recognized exceptional students pursuing pediatrics through the SD American Academy of Pediatrics and USD SSOM Excellence in Pediatrics Award which went to Ruthellen Anderson. The Outstanding Resident and Outstanding Resident Teacher awards both went to Dr. Ana Nevarez Gilbert. This year we also established the Resident Scholar's Awards to recognize pediatric residents in each class that achieve the top in-training exam (ITE) scores. These went to Drs. Sowmya Kruttiventi (PGY1), Rebecca Mabee (PGY2), Ana Nevarez Gilbert (PGY3) and Hayley Shackelford (most improved score). Our heartiest congratulations to these individuals who inspire us all with their work and accomplishments!

Administrative & Faculty



Kelly Leaver

Kelly resigned from the Department of Pediatrics as the Department Manager in 2022



Katie Schroeder

Katie joined the Department of Pediatrics as the Department Manager on February 22, 2023



Megan Quandt, BA, MBA

Megan joined the Pediatrics Residency Program as the Program Coordinator on August 22, 2022



Connie Taylor, MD

Dr. Taylor was appointed to Pediatric Neurology Division Chief



Donald Ellis, MD

Dr. Ellis was appointed to the Pediatric Emergency Medicine Division Chief – June 2023

Retirements



Stephen Kovarik, MD

Retirement from Clinical & SSOM Service
Thank you for 40 years of service!



Lawrence Fenton, MD

Retirement from Clinical Service
Thank you for over 50 years of service and leadership including as a past Chair of the Department of Pediatrics!

Events

Holiday Mixer

The Department of Pediatrics faculty celebrated the years accomplishments with a holiday mixer at The Country Club of Sioux Falls on December 14, 2023 and sent "Cocoa Parties in a Box" to clinical faculty across the state.



Other Events

The T. Denny Sanford Children's Pediatric Symposium was held in Okoboji, Iowa on June 16-17, 2023, and included a joint Sanford-Mayo Symposium and Pediatric Residency Retreat.



New Faculty Members

The Department of Pediatrics welcomed 19 new faculty members to assist with training medical students and residents, along with caring for children across the state. USD SSOM appointments come with many opportunities and helpful services to support faculty in teaching, professional development, and research.

Sioux Falls



Syed Haris Zamir Kazmi, MD
Clinical Assistant Professor, Avera McKennan Hospital



Maria Skorey, MD
Assistant Professor, Sanford Children's Hospital



Jessica Top, MD
Clinical Assistant Professor, Avera McKennan Hospital



Jordan Fritch-Hanson, MD
Assistant Professor, Sanford Children's Specialty Clinic

Harrisburg



Leah Heidenreich, MD
Assistant Professor, Sanford Health Clinic



Bruce Banwart, MD
Clinical Assistant Professor, Avera McKennan Pediatric Critical Care



Benjamin Hoag, MD
Clinical Assistant Professor, Sanford Children's Specialty Clinic

Rapid City



Elizabeth Farnsworth, MD, PhD
Clinical Assistant Professor, Black Hills Pediatrics



Taylor Hansen, DO
Clinical Assistant Professor, Avera Neonatology



Peter Holmberg, MD
Assistant Professor, Sanford Children's Specialty Clinic



Adam Dell, MD
Assistant Professor, Oyate Health Center



Aimee Deliramich, PhD
Assistant Professor, USD Center for Disabilities



Rashmi Jain, MBBS (MD)
Clinical Assistant Professor, Sanford Children's Specialty Clinic



Brittany Schmidt, MA
Instructor, USD Center for Disabilities



Dana Schroeder, FNP
Clinical Instructor, Sanford Children's Specialty Clinic



Julia Blue, DO
Clinical Assistant Professor, Sanford Children's 26th & Sycamore



Donald Ellis, MD
Associate Professor, Sanford Emergency Department



Catherine Nelson, DO
Assistant Professor, Sanford Children's Hospital



Prathapan Ayyappan, PhD
Assistant Professor, Sanford Research



Faculty Overview

The Department of Pediatrics is made up of 276 primary, 34 cross-appointed faculty members that work across 43 sites and within 21 divisions including: Cardiology, Child's Voice, Critical Care, Developmental & Behavioral, Emergency Medicine (PEM), Endocrinology, Gastroenterology, General Pediatrics, Genetics Endocrinology, Hematology Oncology, Hospitalists, Infectious Disease, Neonatology, Nephrology, Neurology, Palliative Care, Physical Medicine & Rehabilitation, Pulmonology, Avera Research, Sanford Research, and Surgery. Of the primary pediatrics faculty, there are 99 academic, 177 clinical, seven adjunct, and six emeritus in the Department of Pediatrics.

146 faculty members identify as having a rural background or rural clinical practice (< 30,000 people).

52 faculty members are USD SSOM Alumni.

Faculty Title	Academic			Clinical			Overall
	Primary	Cross	Total	Primary	Cross	Total	Total
Professor	15	4	19	33	6	39	58
Associate Professor	32	0	32	39	7	46	78
Assistant Professor	38	5	43	33	7	40	83
Instructor	9	1	10	64	3	67	77
Emeritus	5	0	5	1	0	1	6
Adjunct	0	0	0	7	1	8	8
Total	99	10	109	177	24	201	310

Location	Number of Faculty
Aberdeen, SD	1
Brandon, SD	2
Brookings, SD	1
Harrisburg, SD	4
Kyle, SD	1
Mitchell, SD	2
Pierre, SD	4
Pine Ridge, SD	3
Rapid City, SD	18
Rosebud, SD	1
Sioux Falls, SD	251
Spearfish, SD	1
Vermillion, SD	1
Watertown, SD	3
Yankton, SD	6
Tucson, AZ	1
San Diego, CA	1
Lawrenceville, GA	1
Orange City, IA	1
North Chicago, IL	1
Kannapolis, NC	1
Fargo, ND	1
New York, NY	1
Bend, OR	1
Houston, TX	1
Richmond, VA	1



Divisions

The Department of Pediatrics consists of 21 divisions with dedicated faculty who have a passion for student teaching and provide exceptional clinical pediatric and subspecialty care for kids. The listed Division Chiefs support the academic and professional advancement of faculty as well as clinical and teaching excellence within each division.

Cardiology



Theresa Stamato, MD, Division Chief
Sanford Children's Specialty Clinic

Sioux Falls

Nofil Arain, MD, Sanford Children's Specialty Clinic
Sami Awadallah, MD, Avera Medical Group Pediatrics Specialists
Eric Mittelstaedt, MD, Sanford Children's Specialty Clinic
Eric Towe, MD, Avera Medical Group Pediatrics Subspecialists
William Waltz, MD, PhD, Sanford Children's Specialty Clinic

Child's Voice



Nancy Free, DO, Division Chief
Sanford Child's Voice

Sioux Falls

Shelly Hruby, APRN, CNP, Sanford Child's Voice
Brooke Jones, MD, Sanford Child's Voice
Kirsten Persson, MSPAS, Sanford Child's Voice

Critical Care



Jody Huber, MD, Division Chief
Sanford Children's Specialty Clinic

The Pediatric Critical Care Division was active over the 2022-2023 academic year.

Our divisions focus is providing education for medical students and residents. We are active members of our teaching services and enjoy participating in quality improvement, faculty development and clinical research activities. We are increasing our faculty in the upcoming year and are hoping for more great accomplishments.

Sioux Falls

Mir Ali, MD, Sanford Children's Specialty Clinic
Bruce Banwart, MD, Avera McKennan Pediatric Critical Care
Kingshuk Dasgupta, MD, Avera Medical Group, Pediatric Critical Care & Hospitalist Services
Benson Hsu, MD, MBA, Avera Children's Hospital

Gokhan Olgun, MD, Sanford Children's Specialty Clinic
Nicolas Rivera, MD, Avera Pediatric Critical Care/
Hospitalist Service

Ashley Sandeen, DO, Sanford Children's Specialty Clinic
Joseph Segeleon, MD, Sanford Children's Specialty Clinic
Lesta Whalen, MD, Sanford Children's Hospital

Developmental & Behavioral



Carolyn Kippes, MD, Division Chief
Sanford Children's Specialty Clinic

The Developmental & Behavioral Pediatrics clinic is increasing in size from three to five clinicians. We continue to have very full clinic schedules and waitlists. We continue to have students and trainees work with us in clinic, including: medical students, pediatric residents, child & adolescent psychiatry fellows, and LEND trainees. We continue to participate in various multidisciplinary clinics: Spina Bifida/Myelo Clinic, NF Clinic, FASD Clinic, Lifescape Outreach Clinic, Autism Team Clinic, and LEND Clinic.

Sioux Falls

Noelle McGee, FNP-CNP, Sanford Children's Specialty Clinic
Erin Schroeder, MSN, Sanford Children's Specialty Clinic

Emergency Medicine (PEM)



Donald Ellis, MD, Division Chief
Sanford Emergency Department

The Pediatric Emergency Medicine Division was created in June 2023 and is in the process of recruiting faculty.



Endocrinology



John Shelso, MD, Division Chief
Sanford Children's Specialty Clinic

Rapid City

Rachel Edelen, MD, Monument Health Rapid City Clinic

Sioux Falls

Laura Davis-Keppen, MD, Sanford Children's Specialty Clinic

Kurt Griffin, MD, PhD, Sanford Research

Ashutosh Gupta, MD, Avera Medical Group Pediatric Specialty Clinic

Karen Hanisch, MS, Sanford Children's Specialty Clinic

Benjamin Hoag, MD, Sanford Children's Specialty Clinic

Rashmi Jain, MBBS, Sanford Children's Specialty Clinic

Gastroenterology



Tonya Adamiak, MD, Division Chief
Sanford Children's Specialty Clinic

The Pediatric Gastroenterology Division includes four physicians and two nurse practitioners. Services provided include outpatient clinics, inpatient consults, and procedures (endoscopy, colonoscopy, capsule endoscopy, impedance studies). The division provides outreach clinic services to Rapid City, Dakota Dunes, Aberdeen, and Watertown; and multidisciplinary feeding clinics with speech therapy, occupational therapy, dietician, and social work. Pediatric residents do required rotations in Pediatric Gastroenterology, and our team has mentored pediatric residents who have gone on to do fellowships in Pediatric Gastroenterology.

Sioux Falls

Sarah Cole, MD, Avera Medical Group Pediatric Specialists

Brock Doubledee, DO, Sanford Children's Specialty Clinic

Melissa Jensen, MD, Sanford Children's Specialty Clinic

Stephen Nanton, MD, Avera Medical Group Pediatric Specialists

Gary Neidich, MD, USD Sanford School of Medicine

Stephanie Van Dam, MSN, FNP, Sanford Children's Specialty Clinic

General Pediatrics



Aaron Zylstra, MD, Division Chief
Sanford Children's Clinic 69th & Louise

Brandon

Linne Curtis-Bayt, MD, Sanford Brandon Children's Clinic

Kassy Thorpe, MD, Sanford Brandon Children's Clinic

Brookings

Matt Bien, MD, Avera Medical Group Brookings

Harrisburg

David Basel, MD, Avera Medical Group Harrisburg

Shannon Carruthers, MD, Sanford Harrisburg Clinic

Leah Heidenreich, MD, Sanford Health Clinic

Bianca Johnson, MD, Sanford Harrisburg Clinic

Mitchell

Christine Arnold, MD, Sanford Health Mitchell Clinic

Jennifer Tegethoff, MD, Avera Medical Group Pediatrics

Pierre

Marty Allison, MD, Avera Medical Group Pierre

Teresa Cass, MSN, Avera Medical Group Pierre

Natalie Hutton, MD, Avera Medical Group Pierre

Bretta Olson, MD, Avera Medical Group Pierre

Rapid City

Gregory Anderson, DO, Black Hills Pediatrics & Neonatology, LLP

Halie Anderson, MD, Rapid City Medical Center

Adam Dell, MD, Oyate Health Center

Elizabeth Farnsworth, MD, PhD, Black Hills Pediatrics

Cara Hamilton, MD, Black Hills Pediatrics & Neonatology, LLP

Kimberly Hushagen, MD, Rapid City Medical Center

Margaret Kuehler, MD, Black Hills Pediatrics & Neonatology, LLP

Sam Mortimer, MD, Black Hills Pediatrics & Neonatology, LLP

David Mueller, DO, Black Hills Pediatrics, LLP

Alicia Palmer, MD, Black Hills Pediatrics, LLP

Martin Spahn, MD, Founders Park Clinic, Prof. LLC

Lori Strong, MD, Black Hills Pediatrics & Neonatology, LLP

Sioux Falls

Courtney Backer, MD, Avera McGreevy Clinic

Barry Bauer, MD, Sanford Children's Clinic

Elizabeth Bauer, MD, Sanford Children's Clinic 26th & Sycamore

Julia Blue, DO, Sanford Children's Clinic 26th & Sycamore

Daniel Boadwine, MD, Avera Family Health Center

Rochelle Boote, MD, Avera Medical Group McGreevy 69th & Cliff

Kara Bruning, MD, Avera Medical Group McGreevy Pediatrics South

Ashley Coaston, DO, USD Sanford School of Medicine

Shari Eich, MD, Avera Medical Group McGreevy

Michael Elliott, MD, Sr. VP of Medical Affairs/CMO

Shannon Emry, MD, Avera Medical Group Family Health Center Dawley Farms

Sara Free, MD, Sanford Children's Clinic

Jennifer Hagggar, MD, Sanford Children's Clinic

Scott Henry, MD, Sanford Children's Clinic

Rick Kooima, MD, Avera Medical Group Family Health Center Dawley Farms

Katie Larson, MD, Sanford Children's Clinic

Edward Mailloux, MD, Sanford Children's Clinic

Christiane Maroun, MD, Avera Medical Group McGreevy
Scott McKercher, MD, Sanford Children's Clinic 26th & Sycamore

Ariane Moffett, DO, Sanford Clinic 32nd & Ellis
Candice Nelson, MD, Sanford Children's 69th & Louise
Gulsah Olgun, MD, Sanford Children's Clinic
Rita Rabenberg, MD, Sanford Children's Clinic
Kayli Reece, MD, Sanford Children's Clinic
Samuel Schimelpfenig, MD, Avera McGreevy Clinic
Michelle Schimelpfenig, DO, MPH, Sanford Children's Clinic
Kristin Stuive, DO, Sanford 32nd & Ellis Clinic
Michelle Van Beek, MD, Sanford Children's Clinic 26th & Sycamore
Wendy Vetter, DO, Sanford 34th & Kiwanis Family Medicine
Joseph Vogel, MD, Avera Medical Group
Donna Weinacht, MD, Sanford Children's Clinic 69th & Louise
Laura Whittington, DO, Sanford Children's Clinic 69th & Louise

Spearfish

Tara Ulmer, MD, Monument Health Spearfish Clinic

Vermillion

Matthew Krell, MD, Vermillion Medical Clinic

Watertown

Nina Bishop, MD, Sanford Clinic Watertown
Craig Crismon, MD, Brown Clinic
Tracy Pierret, MD, Sanford Clinic Watertown

Yankton

Randolph Heisinger, MD, Clinical Professor
Martha Holstein, MD, Yankton Medical Clinic
Dawn Larson, MD, Yankton Medical Clinic
Sara Pepper, MD, Yankton Medical Clinic
April Willman, MD, Yankton Medical Clinic
David Withrow, MD, Yankton Medical Clinic

Genetics



David Ward, MD, Division Chief
Sanford Children's Specialty Clinic

Houston, TX

Alt Eckhard, MD, PhD, Professor

Sioux Falls

Kaitlyn Burns, MS, Sanford Children's Specialty Clinic
Laura Davis-Keppen, MD, Sanford Children's Specialty Clinic
Kristen De Berg, MS, Sanford Health Maternal Fetal Medicine
Cartney Knecht, MS, Sanford Children's Specialty Clinic
Rachel Li, MD, Sanford Children's Hospital
Rebecca Loman, MS, Sanford Imagenetics
Dana Schroeder, FNP, Sanford Children's Specialty Clinic
Lisa Straight, MS, Sanford Children's Specialty Clinic

Amelia Woltanski Mroch, MS, Sanford Medical Genetics Lab

Tucson, AZ

H. Eugene Hoyme, MD, Professor Emeritus

Hematology-Oncology



KayeLyn Wagner, MD, Division Chief
Sanford Children's Specialty Clinic

Sioux Falls

Ashlee Blumhoff, MSN, Sanford Children's Specialty Clinic
Jordan Fritch-Hanson, MD, Sanford Children's Specialty Clinic
Brianna Murphy, DO, Sanford Children's Specialty Clinic
Catherine Nelson, DO, Sanford Children's Hospital

Fargo, ND

Sam Milanovich, MD, Sanford Roger Maris Cancer Center

Hospitalists



Carl Galloway, MD, Division Chief
Sanford Children's Specialty Clinic

The Division of Pediatric Hospital Medicine is highly involved in education of residents and medical students. We are the primary teaching service for the pediatric residency, with residents completing a total of eight rotations with our team during residency. Each family medicine intern also completes an inpatient pediatric rotation with us, as well as having a number of senior family medicine residents pursuing additional elective opportunities with us. We almost constantly have medical students in Pillar 2, as well as frequent Pillar 3, on rotation, providing a diverse group of learners on the team. Our group is highly involved in the development of clinical practice guidelines and order sets to standardize medical care, as well as numerous committees for the hospital, medical school, and residency program.

Harrisburg

Leah Heidenreich, MD, Sanford Health Clinic

Sioux Falls

Samuel Hagman, DO, USD Sanford School of Medicine
Peter Holmberg, MD, Sanford Children's Specialty Clinic
Vishnu Kanala, MBBS, Sanford Children's Specialty Clinic
Syed Haris Zamir Kazmi, MD, Avera McKennan Hospital
Aimee Koenig, MD, Sanford Children's Hospital
Julie Mayo, DO, Sanford Children's Specialty Clinic
Jessica Olcott, MD, Sanford Children's Specialty Clinic
Elizabeth Peck, MD, Sanford Children's Specialty Clinic
Nicole Poppinga, MD, Avera Child & Adolescent Units at Behavioral Health
Jennifer Reed, MD, Sanford Children's Specialty Clinic
Nicolas Rivera, MD, Avera Medical Group Pediatric

Critical Care
Jessica Top, MD, Avera McKennan Hospital

Infectious Disease



Santiago Lopez, MD, Division Chief
Sanford Children's Specialty Clinic

Sioux Falls

Peter Paul Lim, MD, Avera Medical Group Infectious Disease Specialists

Neonatology



Suzanne Reuter, MD, Division Chief
Sanford USD Medical Center

The Section of Neonatology comprises three NICUs across the state – Sanford and Avera in Sioux Falls and Monument Health in Rapid City. Each NICU is active in teaching of Pillar 1, 2, and 3 medical students, and Sanford NICU is the primary NICU experience for Sanford pediatric residents and the Center for Family Medicine residents. Research plays a large part of patient care at Avera and Sanford, with Sanford being an active member of the national collaboration, the Neonatal Research Network, supporting numerous ongoing studies.

All three NICUs have active transport teams and participate in the training of nurses and ancillary staff in the neonatal resuscitation program (NRP) and the S.T.A.B.L.E. program for post resuscitation/pre-transport stabilization of sick neonates.

Section members at all three NICUs participate in mentoring, QI projects, the development of clinical practice guidelines, and multiple other service activities for the NICU, the hospital, the medical school, and the community.

Rapid City

Kimberly Balay, MD, Monument Health Hospital

Sioux Falls

Beth Abrahamson, BSN, NNP, Sanford Children's Hospital
Kathryn Anderson, MD, Sanford Children's Hospital
M. Ranae Aukerman, BSN, NNP, Sanford Children's Hospital
Michelle Baack, MD, Sanford Children's Specialty Clinic
Maria Barber, DO, Avera McKennan Hospital
Kerri Bjornson, MSN, NNP, Sanford Children's Hospital
Tiffany Brende, MSN, NNP, Sanford Children's Hospital
Molly Brynjulson, NNP, Sanford Children's Hospital
Lynette Burch, DNP, NNP, Sanford Children's Hospital
Rebecca Fish, MD, Avera Medical Group Neonatology
Ashley Geppert, MSN, NNP, Sanford Children's Hospital
Jacquelyn Grev, MD, Sanford Children's Specialty Clinic
Taylor Hansen, DO, Avera Neonatology

Laura Jarding, MSN, NNP, Sanford Children's Hospital
M. Akram Khan, MD, Sanford Children's Specialty Clinic
Debra Koens, MSN, CNP, Sanford Children's Hospital
Natasha Lopez, MD, Avera McKennan Hospital
Lisa Lubbers, MSN, NNP, Avera McKennan Hospital NICU
Kara Mergen, MSN, NNP, Sanford Children's Hospital
Stephen Messier, MD, Sanford Children's Specialty Clinic
Lauritz Meyer, MD, Sanford Children's Specialty Clinic
David Munson, MD, Sanford Children's Specialty Clinic
Debra Nearman, MSN, NNP, Sanford Children's Hospital
Amanda O'Neil, RN, MSN, CNP, Boekelheide Neonatal Intensive Care Unit

Charisse Ortman Brockmueller, MSN, NNP, Sanford Children's Hospital

Lynn Paul, MSN, NNP, Sanford Children's Hospital
Laurie Richards, MD, Sanford Children's Specialty Clinic
Maria Skorey, MD, Sanford Children's Hospital
Baiba Steinbrekera, MD, Sanford Children's Hospital
Dennis Stevens, MD, MS, USD Sanford School of Medicine
Deanna Stoll, MSN, NNP, Sanford Children's Hospital
Mallory Summerer, MSN, NNP, Sanford Children's Hospital
Nicholas Torbert, DO, Avera McKennan Hospital
Mallory Van Tol, MSN, NNP, Sanford Children's Hospital
Katherine Wang, MD, Avera Medical Group Neonatology
Lynn Ward, MSN, NNP, Sanford Children's Hospital
Jacqueline Weidauer, MSN, Sanford Children's Hospital
Lawrence Wellman, MD, USD Sanford School of Medicine
Jessica White, MD, Sanford Children's Specialty Clinic

Nephrology



John Sanders, MD, Division Chief
Avera Medical Group Pediatric Specialists

Sioux Falls

Justin Kastl, MD, Sanford Children's Specialty Clinic

Neurology



Connie Taylor, MD, Division Chief
Avera Medical Group Pediatric Specialists

Rapid City

Jorge Sanchez, MD, Monument Health Neurology & Rehabilitation

Sioux Falls

Mohamad Abou Merhi Saifeddine, MD, Sanford Children's Specialty Clinic
Shalome Dsouza, MD, Sanford Children's Specialty Clinic
Heather Johnson, MS, RN, CNP, Sanford Children's Specialty Clinic
Kyla Stoops, MSN, Sanford Children's Specialty Clinic
Kellie Sweet, DO, Sanford Children's Specialty Clinic
Ovictor Tesoro, MD, Avera Medical Group Pediatric Specialists

Palliative Care



Daniel Mark, MD, Division Chief
Sanford Children's Specialty Clinic

Sioux Falls

Pam Koepsell, MSN, CNP, Sanford Children's Hospital
Terri Peterson-Henry, DO, Sanford Oncology & Palliative
Care Clinic

Physical Medicine & Rehabilitation



Julie Johnson, MD, Division Chief
Sanford Children's Specialty Clinic

Sioux Falls

Charles Broberg, MPAS, Sanford Children's Specialty
Clinic/Lifescape
Daniel Steventon, PT, DPT, Sanford Children's Specialty Clinic

Pulmonology



James Wallace, MD, Division Chief
Sanford Children's Specialty Clinic

Sioux Falls

Deborah Hickman, DNP, MSN, RN, Sanford Children's
Specialty Clinic
Amit Jain, MBBS, Sanford Children's Specialty Clinic
Chuanpit Moser, MD, Sanford Children's Specialty Clinic
Stacy Peters, PharmD, Sanford Children's Specialty Clinic
Wilfredo Veloira, MD, Avera Children's

Research Avera



Amy Elliott, PhD, Division Chief
Avera Research Institute

Pine Ridge

Deborah Tobacco, MA, Research Institute Center for
Pediatric & Community Research

Rapid City

Christine Hockett, PhD, Avera Research Institute
Katie Ziegler, MPH, Avera Research Institute

Sioux Falls

Jyoti Angal, PhD, Avera Research Institute
Arielle Deutsch, PhD, Avera Health
Christa Friedrich, MS, Avera Research Institute
Lacey McCormack, PhD, Avera Research Institute



Research Sanford



Kurt Griffin, MD, PhD, Division Chief
Sanford Research

Division faculty are currently mentoring
13 graduate students: seven PhD, five
MD/PhD, and one MS. Four additional students defended
in the last year: three PhD, one MD/PhD. During this
period, Sanford Research hosted 36 undergraduate
summer students through the SPUR program.

The Sanford Research weekly seminar series hosted 12
visiting faculty, including Nobel laureate Dr. William
Kaelin who presented as the 11th Annual Sanford
Research Graduate Student-Invited Seminar Series
Speaker. Sanford Research also hosted topical symposia
with external speakers focused on pediatric research,
population research, rare diseases, genetics, and the
Eastern South Dakota Research Symposium.

Sioux Falls

Prathapan Ayyappan, PhD, Sanford Research
Michelle Baack, MD, Sanford Children's Specialty Clinic/
Sanford Research
Jonathan Brudvig, PhD, Sanford Research
Francisco Bustos Velasquez, PhD, Sanford Research
Indra Chandrasekar, PhD, Sanford Research
Kevin Francis, PhD, Sanford Research
Michael Kareta, PhD, Sanford Research
Attila Kovacs, PhD, Sanford Research
Lance Lee, PhD, Sanford Research
Santiago Lopez, MD, Sanford Children's Specialty Clinic/
Sanford Research
Abdelhalim Loukil, PhD, Sanford Research
Ikuo Masuho, PhD, Sanford Research
Thayne Munce, PhD, Sanford Research
David Pearce, PhD, Sanford Research
Louis-Jan Pilaz, PhD, Sanford Research
Kyle Roux, PhD, Sanford Research
Alexei Savinov, MD, PhD, Sanford Research
Arielle Selya, PhD, Sanford Research
Anna Strahm, PhD, Sanford Research
Kameswaran Surendran, PhD, Sanford Research
Jianing Tao, PhD, Sanford Research
Kurt Warnhoff, PhD, Sanford Research
Jill Weimer, PhD, Sanford Research

Surgery



Jon Ryckman, MD, Division Chief
Sanford Children's Specialty Clinic

Sioux Falls

Kurt Eeg, MD, Sanford Children's Specialty Clinic
Adam Gorra, MD, Sanford Children's Clinic & Hospital
Geoffrey Haft, MD, Avera Orthopedics
Robert Lunn, MD, Anesthesia Physicians Ltd
Kjerstin Purintun, MSN, CPNP, Sanford Children's Specialty Clinic
Jenifer Reitsma, MSN, APRN-CNP, CPNP-AC/PC, Sanford Children's Specialty Clinic
Ryan Rowberry, MD, Anesthesia Physicians Ltd
Geoffrey Tufty, MD, Sanford Eye Center & Optical

Other Division Faculty

Aberdeen

Thomas Luzier, MD, Aberdeen Asthma & Allergy

Kyle

Rafael Christian, MD, Kyle Health Center

Pine Ridge

Andrew Modic, MD, Pine Ridge Service Unit
Laura Romceovich, MD, Pine Ridge Indian Health Services

Rapid City

Jennifer Hasvold, MD, Monument Health Hospital

Rosebud

Jean Heisler, MD, Rosebud Comprehensive Healthcare Facility

Sioux Falls

Alaa Al Nofal, MD, Sanford Children's Specialty Clinic
DenYelle Baete Kenyon, PhD, USD Sanford School of Medicine
Vinod Bhatara, MD, Avera Behavioral Health Center
Jerome Blake, MD, Associate Professor
Shea Bonine, MS, Sanford Children's Specialty Clinic
Mark Bubak, MD, Dakota Allergy & Asthma
Bonnie Bunch, MD, PhD, Sanford Children's Specialty Clinic
Aimee Deliramich, PhD, USD Center for Disabilities
Janet Dubois, MD, Sanford Radiology Clinic
Susan Duffek, MD, Sanford Radiology Clinic
David Ermer, MD, Sanford Psychiatry & Psychology Clinic
Randolph Faustino, PhD, USD Sanford School of Medicine
Lawrence Fenton, MD, Sanford Children's Specialty Clinic
Bruce Fogas, PhD, Volunteers of America, Dakotas
Emily Griese, PhD, Sanford Health Plan
Ryan Groeneweg, EdS, USD Center for Disabilities
Keith Hansen, MD, USD Sanford School of Medicine
Amy Heiberger, PharmD, Sanford Pharmacy
Amanda Hurst, PharmD, Sanford USD Medical Center

John Johnson, PhD, USD Center for Disabilities
Marni Johnson Martin, AuD, USD Center for Disabilities
Sarah Konrady, PhD, Sanford Clinic Behavioral Health
Eric Kurtz, PhD, USD Center for Disabilities
Rebecca Lustfield, PhD, USD Sanford School of Medicine
Lisa MacFadden, PhD, University of South Dakota Sioux Falls
Cindy Matthes, BS, Sanford Children's Specialty Clinic
Emily Meier, MA, USD Sanford School of Medicine
MacKenzie Mertz, DO, Sanford Psychiatry & Psychology Clinic
Patrick Munson, MD, Sanford Clinic Ear, Nose & Throat
Jeffrey Oakland, OD, Dakota Vision Center
Deborah Pritchett, PharmD, Sanford Children's Hospital
Jaymi Russo, MEd, USD Sanford School of Medicine
Amy Scepaniak, MS, USD Center for Disabilities
Brittany Schmidt, MA, USD Center for Disabilities
Brandy Sebera, MS, USD Center for Disabilities
R. Maclean Smith, MD, Allergy & Asthma Clinic
Timothy Soundy, MD, Avera University Psychiatry Associates
Judy Struck, EdD, Professor Emeritus
Paul Thompson, PhD, USD Sanford School of Medicine
Verle Valentine, MD, Sanford Sports Science Institute
Ann Wilson, PhD, USD Center for Disabilities

Bend, OR

Joseph Zenel, MD, Professor Emeritus

Kannapolis, NC

Philip May, PhD, Gillings School of Global Public Health

Lawrenceville, GA

Megan Landsverk, PhD, Palmetto GBA

New York, NY

Sotirios Keros, MD, PhD, Adjunct Associate Professor

North Chicago, IL

Archana Chatterjee, MD, PhD, Chicago Medical School, Office of the Dean

Orange City, IA

Megan Fretham, DO, Orange City Medical Clinic

Richmond, VA

Erik Schobitz, MD, Richmond Emergency Physicians, Inc

San Diego, CA

Jim Warne, MS, USD Center for Disabilities, Oyate' Circle

Tucson, AZ

H. Eugene Hoyme, MD, Professor Emeritus

Awards



Staff Award

Angie Tuffs

Civil Service Award

Student Award

Ruthellen (Elle) Anderson

Excellence In Pediatrics

Resident Awards

Sowmya Kruttiventi, MD

Top PGY1 ITE Score

Rebecca Mabee, MD

Top PGY2 & Top Program ITE Score

Ana Nevarez Gilbert, MD

Top PGY3 ITE Score

Resident of the Year

Resident Teacher of the Year

Hayley Shackelford, MD

Most Improved ITE Score Overall

Faculty Awards

Samuel Schimelpfenig, MD

Dedicated Teacher Award

Lauritz Meyer, MD

Distinguished Researcher Award

Christiane Maroun, MD

Master Clinician Award

Daniel Mark, MD

Kindness Award

Other Awards

Michelle Baack, MD

Midwest Society for Pediatric Research Segar Family Lectureship Award

Adam Dell, MD

University of Utah Pediatric Housestaff Excellence in Teaching Award (2022)

Benson Hsu, MD, MBA

McNulty Foundation: Catalyst Fund Prize for Aequitas Health

DenYelle Kenyon, PhD

Dakota Community Collaborative on Translational Activity (DaCCoTA) Mentor of the Year (2022)

Dr. Scott McKercher, MD

Sanford Clinician Well-being Champion Award

Louis-Jan Pilaz, PhD

Society for Neuroscience Member

Suzanne Reuter, MD

USD SSOM Alpha Omega Alpha Chapter Advisor

Jon Ryckman, DO

Sandford Physician of the Year

Michelle Schimelpfenig, DO

Aequitas Health Honor Society

Jianning Tao, PhD

Geographical Management of Cancer Health Disparities Research Scholar Travel Grant Award National Cancer Institute Management of Cancer Health Disparities (GMaP) Program

David Withrow, MD

2023 USD SSOM Class of 1983 Clinical Faculty Award. The award was established in 2008 to recognize clinical faculty in clinical practice, active in the medical school who has made a significant contribution to the USD SSOM in teaching and leadership in their department. Dr. Withrow was nominated by his medical students based on his patience, humility and outstanding qualities as a clinician and educator.



Faculty Promotion

Academic Promotion



Jody Huber, MD
Professor



Kevin Francis, PhD
Associate Professor



Santiago Lopez, MD
Associate Professor



Gokhan Olgun, MD
Associate Professor



KayeLyn Wagner, MD
Associate Professor



Jyoti Angal, PhD
Assistant Professor

Clinical Promotion



Carl Galloway, MD
Clinical Professor



Teaching & Education

Together, the pediatric department helped train 17 pediatric residents, 154 medical students, 14 graduate students and 18 undergraduate students during the 2022-23 academic year. They also supported each other through mentorship.

Mentoring Programs

Resident Team Mentoring

The Pediatric Resident Team Mentoring Program was implemented by Dr. Lesta Whalen, Vice Chair, and provides a structure and process, supplementing existing efforts and programs within the department, to provide assistance and to motivate residents and faculty to realize their full potential in scholarship, education, clinical care, and research. The teams are structured with a resident from each training year (PGY 1-3), and a junior, mid, and senior faculty member. The teams will participate in quarterly meetings to discuss core values, tools for success in clinical practice, achieving success in work and personal life, professional development desires, how to advance or get promoted, and provide general support to each other.



Syringe

Maria Villarroel, MD, PGY1
Sowmya Kruttiventi, MD, PGY2
Hayley Shackelford, MD, PGY3
Maria Skorey, MD, Junior Faculty
Laura Whittington, DO, Mid Faculty
Kayelyn Wagner, MD, MME, Senior Faculty



Vial

Gavin Randhawa, MD, PGY1
Pradeeksha Mukuntharaj, MD, PGY2
Michael Naegle, MD, PGY3
Eric Mittelstaedt, MD, Junior Faculty
Gulsah Olgun, MD, Mid Faculty
Stephen Messier, MD, Senior Faculty

Mentoring Teams



Germ

Halle Randall, MD, PGY1
Mohammad Alzoubaidi, MD, PGY2
Sara Free, MD, Junior Faculty
Gokhan Olgun, MD, Mid Faculty
Elizabeth Peck, MD, Senior Faculty
Melissa Jensen, MD, Senior Faculty



Pill

Sruti Kalla, MD, PGY1
Amna Saeed, MD, PGY2
Stuart Kinsey, DO, PGY3
Catherine Nelson, DO, Junior Faculty
Daniel Mark, MD, Mid Faculty
Jody Huber, MD, Senior Faculty



Saline

Ashley Strube, DO, PGY1
Patrizia Scali, MD, PGY2
Divya Thekkethala Winiovich, MD, PGY3
Jordan Fritch-Hanson, MD, Junior Faculty
Ashley Sandeen, DO, Mid Faculty
Michelle Van Beek, MD, Senior Faculty



Stethoscope

Srikrishna Pamalapati Thimma Reddy, MD, PGY1
Meghan McCulloch, MD, PGY2
Rebecca Mabee, MD, PGY3
Rachel Li, MD, Junior Faculty
Jennifer Reed, MD, Mid Faculty
William Waltz, MD, PhD, Senior Faculty

Faculty Mentoring

The Faculty Mentoring Program was reinvigorated by Dr. Lesta Whalen, Vice Chair. The year-long program involves six sessions with pre-determined topics to discuss for mentor-mentee pairings with the ultimate goal of developing a path for success and a mentoring network for each participant. New and junior faculty are provided the opportunity to be paired with a mentor who possesses the skills that would complement their career path along with providing wellness support. This year's mentoring teams attended the Faculty Mentoring Kickoff event on June 21, 2023 at Roam Kitchen and Bar.

Mentoring Teams

MENTOR	MENTEE
Jennifer Reed, MD	Sara Free, MD
Pilar De La Puente, PhD	Anna Strahm, PhD
Michael Kareta, PhD	Kurt Warnhoff, PhD
Kevin Francis, PhD	Ikuo Masuho, PhD
Kameswaran Surendran, PhD	Abdelhalim Loukil, PhD
Benson Hsu, MD, MBA	Peter Paul Lim, MD
Gokhan Olgun, MD	Peter Holmberg, MD
Louis-Jan Pilaz, PhD	Francisco Bustos, PhD

Research Faculty Mentorship & Teaching Activities

Our research faculty are especially talented teachers and mentors. The department's academic researchers mentored 14 graduate students, offered two graduate courses, and gave countless undergraduates and medical students research and scholarly opportunities. Dr. Lance Lee organizes two USD SSOM BBS courses and all faculty at Sanford Research participate in Ethics in Research, Data Club, and formal Seminar Series to give graduate students the tools they need to succeed in academia and research. Faculty advise and mentor students at every level of training in basic, translational, clinical, and population health research. The National Science Foundation (NSF)-funded Sanford PROMISE and SPUR programs offer high-school and undergraduate students interested in scientific careers an opportunity to work in labs and build research and presentation skills over a 10-week period.

Mentor/Advisor for Undergraduates

Francisco Bustos, PhD

Sydney Biever, SPUR Program 2022, Studying the Function of USP27X in Pluripotent Stem Cells

Arielle Deutsch, PhD

Edward Chau (University of St Louis), NIDA grant
Nikki Motabar (UC Santa Barbera), NIDA grant
Foster Murphey (DePaul University), NIDA grant

Kevin Francis, PhD

Amelia Lawver, SPUR Program, Defining the impact of sterol biochemistry on lipid droplet biology
Vanessa Vaudrey (Augustana), Development of new mouse models for the study of Smith-Lemli-Opitz syndrome

Lance Lee, PhD

Jack Anderson, SPUR Program (R25) 2023, Validating Cell Number Differences in the Airway Ciliary Microenvironment of Mouse Models with PCD

Mary Helms, SPUR Program (R25) 2023, Using Live Imaging to Analyze Protein Trafficking in Mammalian Primary Cilia

Reesa Wilcox, SPUR Program (REU) 2023, Differentially Expressed Genes in Motile Ciliated Cells with Cilia Dysfunction

Kameron Brooks, SPUR Program (REU) 2022, Analysis of protein trafficking in mammalian motile cilia using live imaging

Kathryn Rosa, SPUR Program (R25) 2022, Differentiation of Cell Types in the Airway Ciliary Microenvironment of PCD Mouse Models

Abdelhalim Loukil, PhD

Catrina Tounjian, SPUR Program

Lacey McCormack, PhD

Natalie Keller (Oklahoma), Maternal health factors and BF among PASS-ECHO participants

Thayne Munce, PhD

Allison Peplowski, Sleep Symptomology and Concussion Recovery in Collegiate Athletes

Louis-Jan Pilaz, PhD

Jessica Howard, SPUR Program

Kyle Roux, PhD

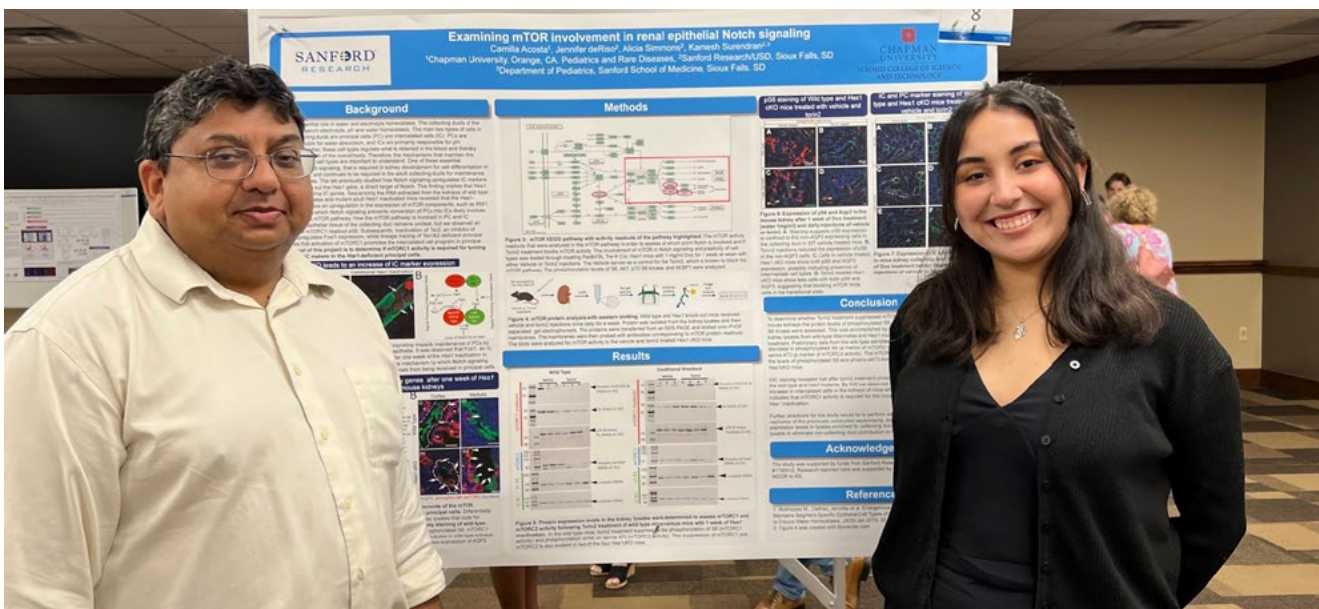
Grace Schavee, SPUR Program (REU), Role of bioenergetics in regulating nucleocytoplasmic transport

Kameswaran Surendran, PhD

Madison Stroud, SPUR Program Summer 2023, Determining the Involvement of Notch Signaling Via Hes1 in the Response of Principal Cells of the Kidney to Aldosterone

Jianning Tao, PhD

Christian Guerrero, SPUR Program, Preclinical Model of Lateral Meningocele Syndrome project
Austyn Smithback, SPUR Program, Rhabdomyosarcoma project



Mentor/Advisor for Graduate Students

Michelle Baack, MD

Kyle Siemers, USD SSOM MD/PhD Program,
Mitochondrial function and differential fatty acid
processing by human trophoblasts
Abigail Varsho-Klein, USD SSOM BBS PhD Program,
Peri-ovulatory Co-Q10 to prevent oxidative stress and
improve pre-implantation embryo quality

Francisco Bustos, PhD

Allison Hoefakker, Sanford Research PhD Program,
Uncovering novel RNF12-driven lncRNA functions in
pluripotent cells

Indra Chandrasekar, PhD

Alicia Simmons, USD BBS PhD Program, Thesis
Committee Member
Brook Busselman, USD BBS PhD Program, Thesis Mentor
Rhiannon Sears, USD BBS PhD Program, Thesis
Committee Member

Arielle Deutsch, PhD

Minga Vargas, USD School of Public Health, Paper Project

Michael Kareta, PhD

Jillian Stamp, USD SSOM MD/PhD Program

Lacey McCormack, PhD

Alexis Osei-Kofi, RISE-UP, Infant feeding practices and
child BMI

Kyle Roux, PhD

Allison Hoefakker, BBS PhD, Bioenergetics, RanGTPase
and nuclear transport

Kameswaran Surendran, PhD

Alicia Simmons, USD DBBS, Molecular regulators kidney
collecting duct development and maintenance

Mentor/Advisor for Medical Students

Kathryn Anderson, MD

Marlee Jones & Lauren Ochoa, LEND program; project: A
retrospective cohort study to evaluate swallow study
use in the NICU population

Michelle Baack, MD

Nadya Ekhteraee Sanaee, Generational
echocardiographic findings following in utero
exposure to late-gestation diabetes and maternal
high-fat diet
Ross Lanier, Effect of maternal high fat diet on
preimplantation embryos
Eli J Louwagie, Mitochondrial roles in developmentally
programmed heart disease
Kirsten Sawtelle, Decreasing vaccine hesitancy through
immunization acceptance strategies in a pediatric

clinic

Kevin Francis, PhD

David Melanson, Defining the impact of cholesterol
biosynthesis on neural cell fate

Carl Galloway, MD

Hunter O'Connor, Pyoderma Gangrenosum

Kurt Griffin, MD

Brenda Orozco, Analysis of patient-level data from
completed T1D clinical trials to assess impact of pre-
test glycemic patterns on mixed meal tolerance test
results
NIH-funded T35 Child Health Innovative Research
Program (CHIRP)

Christine Hockett, PhD

Andrew Holmes, 2023 AOA Carolyn L. Kuckein Student
Research Fellowship
Eric Jatton, Rural Health
Narysse Nicolet, PATHWAYS
Jena Preszler, Maternal Health
Nicole Rogers, Maternal Health
Kaihlen Smith, RMOMS

DenYelle Kenyon, PhD

Andrew Nerland, Developing Program Infrastructure for
Effective Cultural Immersion in Medical School
Jazmin Newton, Tanning bed usage in University
Students, Co-lead
Rachel Sestak, Comparing green space type and area
to pediatric obesity rates in metropolitan areas using
geospatial analysis and machine learning
Mariah Shafer, Exploration of the Clinical Consequences
of Inadequate Menstrual Hygiene Management in
South Dakota

Peter Paul Lim, MD

Anthony Drazick, Raoultella planticola UTI case report
David Jensen, Raoultella planticola UTI case report
Katie Nielson, Influenza cerebellitis case report
Amanda Ricke, Eczema herpeticum case report and
review of literature
Maeghan Sievers, Influenza cerebellitis case report

Lacey McCormack, PhD

Anant Amar (Chicago Medical Student), eGDM
Eric Jatton, teleECHO

Thayne Munce, PhD

Colton Carlson, Head Impacts in Rodeo Athletes
Jonathan Gubbrud, Youth Football Parent Survey
Mathew Pohlmann, Collegiate Basketball Readiness and
Recovery Study
Meaghan Sievers, Intrinsic and Extrinsic Characteristics
of Play Associated with Head Impact Exposure During
Tackling in Youth Football

Sara Pepper, MD
Kirsten Sawtelle,
Reducing Perception
of Pain during
Vaccinations

Suzanne Reuter, MD
Jamuna Buchanan,
Congenital CMV in the
Neonate: A Primer
Tiffany Johnson,
Congenital CMV in the
Neonate: A Primer
Madison McLaury,
Intranasal Versed Use in
the NICU
Andrew Reuter, Intranasal
Versed Use in the NICU

Baiba Steinbrekera, MD
Lauren Ochoa, A
retrospective cohort
study to evaluate
swallow study use in
the NICU population
Marlee Jones, A retrospective cohort study to evaluate
swallow study use in the NICU population

Maria Talavera-Barber, DO
Amrita Bhagia, Congenital syphilis case report
Kevin Richard Feldhaus, NICU nutrition QI project
Narysse Nicolet, Congenital syphilis case report
Megan Jae Wattenhofer, Congenital syphilis case report

April Willman, MD
Kirsten Sawtelle, Improving the Vaccine Experience

Mentor/Advisor for Post-Doctoral Fellows or Early Career Faculty

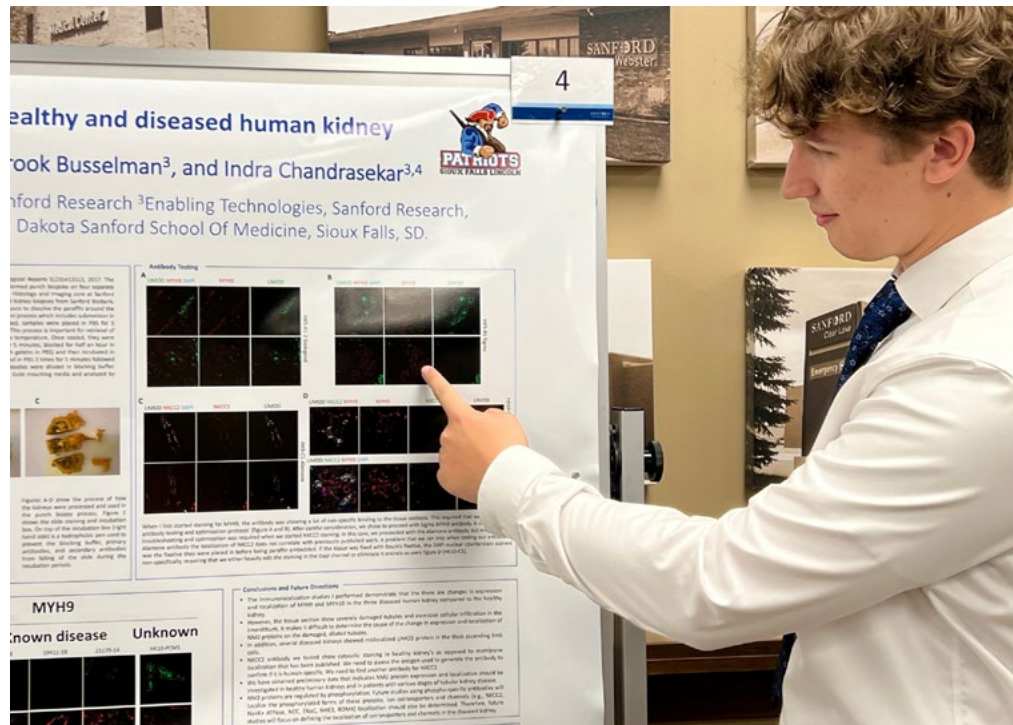
Indra Chandrasekar, PhD
Karla Otterpohl, PhD

Kevin Francis, PhD
Sonali Sengupta, PhD
Jazmine Yaeger, PhD

Michael Kareta, PhD
Robert Szczepaniak Sloane, PhD

Abdelhalim Loukil, PhD
Karama Hamdi, PhD

Ikuo Masuho, PhD
Ryoji Kise, PhD
Ryosuke Tanii, PhD



Kyle Roux, PhD
Francisco Bustos, PhD
Charles Halfmann, PhD
Abdelhalim Loukil, PhD
Ikuo Masuho, PhD
Kurt Warnhoff, PhD

Kameswaran Surendran, PhD
Ayesha Anwer, PhD

Other

Michelle Baack, MD
Lilia Christner (University of Michigan), MSPR career
mentor, MSIV and Pediatric Resident

Louis-Jan Pilaz, PhD
Elizabeth Aaseng, Brandon Valley High school Internship
Program
Arthur Tao, Sanford Promise Scholar Program

USD BBS Dissertation Committee

Michelle Baack, MD
Indra Chandrasekar, PhD
Kevin Francis, PhD
DenYelle Kenyon, PhD
Michael Kareta, PhD
Lance Lee, PhD
Kyle Roux, PhD
Kameswaran Surendran, PhD

Pediatric Clerkship

Dr. Olcott and the Pediatric LIC advisors and coordinators at each campus lead our medical school pediatric curriculum with support of Ms. Angie Tuffs who coordinates education, clinical rotation directors and the department's multi-campus Undergraduate Medical Education (UME) committee. Our clinical faculty provided Pillar 2 and Pillar 3 students more than 2,500 pediatric care days across all campuses including Yankton, Rapid City, and Sioux Falls. USD SSOM students at every campus have opportunities to learn pediatrics from general and subspecialty practices during inpatient and outpatient experiences. The UME committee was instrumental in creating the Pediatric Topic of the Month series. Committee members used LCGME and ABP board objectives and Pediatrics in Review articles to create up-to-date self-study modules for high yield pediatric-related topics. A new "Topic" is sent out at the beginning of each month followed by a didactic board review session at the end of the month to solidify knowledge. The case-based, rapid-fire review sessions are built and presented by a team that includes a medical student, resident, and faculty member. This reinforces learning through teaching and connects trainees with a "pediatric content expert". Rotating "Topics" are not only beneficial for board preparation, but also encourage evidence-based care and updated knowledge for faculty participating in ABP maintenance of certification assessments (MOCA Peds).

Clerkship Director Letter



The 2022-2023 academic year was another great year for Pediatrics which had 154 students rotate through various rotations. Overall, there were 80 Pillar 2 students and 39 Pillar 3 students who rotated through the Sioux Falls campuses, 25 Pillar 2 students at the Rapid City campus, and ten Pillar 2 students at the Yankton campus. This totaled 2,580 clinical training days in Pediatrics. Additionally, six visiting students completed rotations in Sioux Falls. In 2023, nine students matched into Pediatric Residencies including one USD SSOM graduate who matched to our own Pediatric Residency program at Sanford.

The Undergraduate Medical Education (UME) Committee met biannually to review the curriculum and develop educational strategies that ensure uniform pediatric training across all sites. The committee encourages equal input from all grade levels and campuses. The Pediatric Interest Group continues to be re-vitalized with a host of events, which all students are welcome to attend. Some highlights included an introduction to pediatrics with exam tips for all ages of patients, 'a day in the life of a pediatrician' event, vaccination panel and a post-match residency interviewing tips discussion. Sanford Children's Specialty Clinic hosted a student, resident and faculty networking event at Great Shots and Avera Health hosted the Pediatric Interest Group at Vinyl Taco.

The greatest change for Pillar 2 students over the past year is that students assigned to the Avera Sioux Falls Campus were able to rotate through Avera for two weeks of inpatient experiences (ICE blocks). This means that all Pillar 2 students are able to stay at their assigned campus for their pediatric Pillar 2/LIC rotations. "Topic of the Month" self-study modules and didactic lectures continue to be a staple of the Pillar 2 curriculum. There has been strong attendance at the monthly didactic lectures, and notably, pediatrics has seen a 55% increase in "A" letter grades for students. We hope to see continued growth in this area. Other learning opportunities for both Pillar 2 and Pillar 3 students include resident boot camp, procedural simulations in the Perry Center, resident morning reports, and Pediatric Grand Rounds, just to name a few.

In terms of Pillar 3, many exciting additions are in the works. As noted in last year's letter, there were four new electives and/or sub-internships offered at Avera this past academic year. This included NICU, pediatric neurology, pediatric GI, and pediatric hospitalist rotations. We are now working on five additional Pillar 3 rotations for this upcoming academic year. There will be a pediatric hospitalist sub-internship offered at Yankton, a Pediatric ACES and Trauma Informed Care elective that will be offered at all four campuses, a Pediatric Infectious Disease elective offered at Avera, a Pediatric Emergency Medicine elective at Sanford, and a Pediatrics Native American Health elective in Rosebud. It is thrilling to continue to expand the rotation options our students have during their Pillar 3 year!

Thank you for all you do to ensure the next generation of physicians is receiving the best possible education! Your time and effort does not go unnoticed.

Jessica Olcott, MD, FAAP
Department of Pediatrics Clerkship Director
Clinical Associate Professor



Meet the Team

Education Assistant



Angie Tuffs
USD Sanford School of Medicine



Jessica Olcott, MD
Sanford



Sara Pepper, MD
Yankton

Pillar 2 LIC Advisors



Samuel Schimelpfenig, MD
Avera



Maggie Kuehler, MD
Rapid City

Pillar 2 & 3 Rotation Directors



Ashley Sandeen, DO
Sanford PICU Sub-I



Lauritz Meyer, MD
Sanford NICU Sub-I, Neonatology



Maria Barber, DO
Avera NICU Sub-I, Neonatology



Jessica Olcott, MD
Sanford Hospitalist Sub-I, Hospital Elective



Nicole Poppinga, MD
Avera Hospitalist Sub-I



Maggie Kuehler, MD
Rapid City NICU & Hospitalist Sub-I, Pediatric Practice



April Willman, MD
Yankton Pediatric Practice

TBD
Rapid City Neonatology



KayeLyn Wagner, MD
Sanford Hematology-Oncology



John Shelso, MD
Sanford Endocrinology



Rachel Edelen, MD
Rapid City Endocrinology



Shalome D'Souza, MD
Sanford Neurology



Connie Taylor, MD
Avera Neurology



Melissa Jensen, MD
Sanford Gastroenterology



Sarah Cole, MD
Avera Gastroenterology



Bill Waltz, MD
Sanford Cardiology

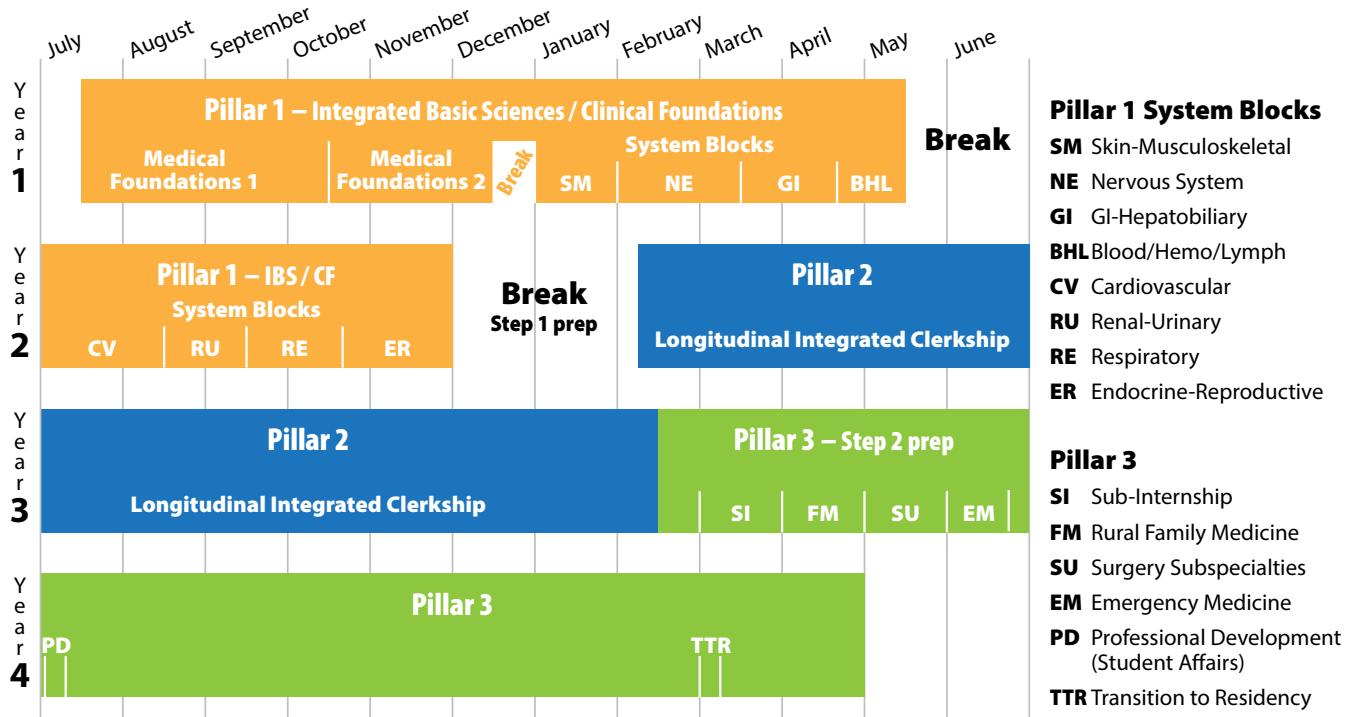
All Pediatric Faculty, Mixed Outpatient, Research in Pediatrics I, & Research in Pediatrics II





UNIVERSITY OF
SOUTH DAKOTA
SANFORD SCHOOL OF MEDICINE

Three Pillar Curriculum



Pillar 1 System Blocks

- SM** Skin-Musculoskeletal
- NE** Nervous System
- GI** GI-Hepatobiliary
- BHL** Blood/Hemo/Lymph
- CV** Cardiovascular
- RU** Renal-Urinary
- RE** Respiratory
- ER** Endocrine-Reproductive

Pillar 3

- SI** Sub-Internship
- FM** Rural Family Medicine
- SU** Surgery Subspecialties
- EM** Emergency Medicine
- PD** Professional Development (Student Affairs)
- TTR** Transition to Residency

Student Rotations

Pillar 2 Rotations

Sioux Falls & FARM Campus

Mini block Weeks - Sanford Children's		
Class	Campus	Students
2024	Avera & Sanford	24
	FARM	3

ICE Weeks		
Class	Campus	Students
2025	Avera	8
	Sanford	13

Out-Patient Clinic Rotations			
Class	Campus	Students	Half Days
2024	Avera	17	408
	Sanford	16	388
2025	Avera	13	142
	Sanford	16	164

Yankton Campus

Class	Students	Full Day Rotations
2024	10	141
2025	10	83

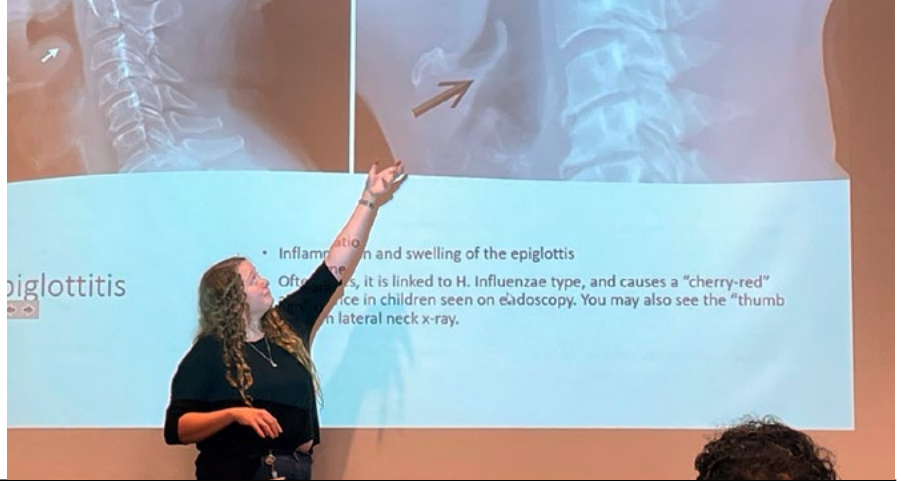
Rapid City Campus

Class	Students	Full Day Rotations
2024	11	149
2025	12	86

Pillar 3 Rotations

Class	Rotation	Rotations	USD Students	Visiting Students
2023	Sub-I's	10	6	4
	Electives	58	21	2
2024	Sub-I's	3	3	0
	Electives	29	19	0

**Topic of the Month
Didactic Lecture Series**



Date	Topic	Presenter Team
July 29, 2022	Well Child, Development & Vaccines	Resident: Ashlesha Bagwe, MD Student: Kirsten Kim Sawtelle, Pillar 2 Content Expert: Jennifer Haggar, MD
August 26, 2022	Newborn Care	Resident: Nicole Zimmerman, MD Student: Maya Gogoi, Pillar 3 Content Expert: Katie Anderson, MD
September 30, 2022	Genetics	Resident: Rebecca Mabee, MD Student: Maya Gogoi, Pillar 3 Content Expert: Isum Ward, MD
October 28, 2022	Neurology	Resident: Kyle Baum, DO Student: Halle Randall, Pillar 3 Content Expert: Connie Taylor, MD
November 18, 2022	Dermatology	Resident: Michael Naegle, MD Student: Jazmin Newton, Pillar 3 Content Expert: Ana Sonstegard, MD
January 4, 2023	Endocrinology	Resident: Di Di Thekkethala, MD Student: Michael Nelson, Pillar 2 Content Expert: Ben Haog, MD
January 20, 2023	Pediatric Emergency Medicine	Resident: Sam Hagman, DO Student: Justin Egge, Pillar 3 Content Expert: Don Ellis, MD
February 17, 2023	MOCA Peds	Resident: Ana Nevarez Gilbert, MD Student: Tony Restaino, Pillar 2 Content Expert: Sara Free, MD
March 31, 2023	Gastroenterology	Resident: Shehbeet Mangat, MD Student: Katie Nielson, Pillar 3 Content Expert: Brock Doubledee, DO
April 28, 2023	Cardiology	Resident: Hayley Shackelford, MD Student: Emily Petersen, Pillar 2 Content Experts: Nofil Arain, MD & Bill Waltz, MD
May 26, 2023	Orthopedics	Resident: Ariane Moffett, DO Student: Andrew Reuter, Pillar 2 Content Expert: Geoff Haft, MD
June 23, 2023	Hematology/Oncology	Resident: Skyler Kinsey, DO Student: Brenden Van Der Werff, Pillar 3 Content Expert: Jordan Fritch-Hanson, MD

Pediatrics Interest Group

Leadership Team

2022

Halle Randall, Co-President, Pillar 3
Benji Waletzko, Co-President, Pillar 3
Meghan Grassel, Coordinator, Pillar 2
Jazmin Newton, Coordinator, Pillar 2
Katie Nielson, Coordinator, Pillar 1
Gulsah Olgun, MD, Faculty Advisor

2023

Kirsten Sawtelle, Co-President, Pillar 3
Jamuna Buchanan, Co-Coordinator Sioux Falls, Pillar 3
Emily Petersen, Co-President, Pillar 2
Gaven Bowman, Coordinator FARM, Pillar 2
Gulsah Olgun, MD, Faculty Advisor



Events

July 13, 2022

Skills Night – IO Placement
Avera Sacred Heart
Yankton, SD

August 22, 2022

Networking Event
Great Shots
Sioux Falls, SD

September 7, 2022

Allergy: Benadryl is Obsolete & Other Pet Peeves
Presented by Dr. David Stukus at Nationwide Children's
Zoom

November 17, 2022

Newborn/Toddler Exam Night
Avera Sacred Heart
Yankton, SD

January 4, 2023

Vaccine Hesitancy Panel
Co-hosted by the Peds and Infectious Disease Interest
Groups
Zoom

April 18, 2023

Post-Match Panel with the CO2023
Zoom



Students Matched in Pediatrics

Last year, nine medical students successfully matched to pediatric residency programs. This growth is partially attributed to a revitalization of the curriculum under new direction from our Clerkship Director, Dr. Jessica Olcott, and from the enthusiasm of the Pediatric Interest Group led by Halle Randall under advisory by Dr. April Willman (Yankton) and Dr. Gulsah Olgun (Sioux Falls). The student-led group organized events including A'day in the life of a pediatrician, a 'post-match day panel discussion', newborn exams, interosseous and lumbar puncture skills training, and a Sanford Children's Specialty Clinic networking event at Great Shots.

In-State



Halle Randall
University of South Dakota, Sanford
School of Medicine, Sanford Children's
Hospital
Sioux Falls, SD



Out-of-State



Amber Veldman
Phoenix Children's Hospital
Phoenix, AZ



Justin Egge
Medical College of Wisconsin, Affiliated
Hospital
Milwaukee, WI



Ruthellen Anderson
University of Iowa Health Care, Carver
College of Medicine, Hospital & Clinics
Iowa City, IA



Ariadne Trautman
Medical College of Wisconsin, Affiliated
Hospital
Milwaukee, WI



Maya Gogoi
University of Iowa Health Care, Carver
College of Medicine, Hospital & Clinics
Iowa City, IA



Megan Goldammer
University of Florida, College of
Medicine, UF Health Shands Children's
Hospital
Gainesville, FL



Chase Habben
Mayo Clinic College of Medicine and
Science
Rochester, MN



Megan Torve
Saint Louis University, School of
Medicine
St. Louis, MO

Pediatric Residency

The Pediatric Residency is in its 13th year and graduated its 10th class in May of 2023. The Sanford sponsored program is led by Program Director, Dr. Jessica White, along with USD SSOM Dean of GME (Dr. Nedd Brown), Assistant Program Directors (Drs. KayeLyn Wagner, Ashley Sandeen and Jennifer Haggar) and the Program Coordinator (Ms. Megan Quandt). Co-chief residents, Drs. Ana Nevarez Gilbert and Ashlesha Bagwe joined Drs. Kyle Baum and Shehbeet Mangat in transitioning to pediatric sub-specialty fellowships. Drs. Nicole Zimmerman and Ariane Moffett transitioned to general pediatric practices. Clinical faculty gave an impressive number of didactic lectures and routinely participated in Pediatric Residency activities at Sanford including morning report, noon lecture series, pediatric journal club, procedural boot camp, and simulation training including mock codes, neonatal resuscitation, pediatric advanced life support, extracorporeal membrane oxygenation (ECMO) management and crucial conversations training. This fall, the program successfully recruited 6 new residents, all of whom joined the department as clinical instructors. Our residents are valuable department members who teach and serve on USD SSOM, state or regional committees. Their QI and research projects are routinely presented at regional and national scientific conferences.

Residency Director Letter



The USD Pediatric Residency Program is now 13 years old. Over this time, we have graduated 58 pediatricians. Fourteen of these individuals now practice in South Dakota, eight individuals practice in North Dakota, and six individuals practice or are pursuing fellowship training in Minnesota.

An additional eight individuals have chosen to remain in the Midwest (Iowa, Missouri, Nebraska, or Kansas).

Program Accomplishments 2022-2023

- Seven residents graduated during the 2022-2023 academic year.
 - Four graduates are pursuing subspecialty training. Subspecialties and location for fellowship training for those graduates are:
 - Neonatal-Perinatal Medicine Fellowship (Iowa City, IA)
 - Pediatric Endocrinology (Iowa City, IA)
 - Pediatric Gastroenterology (St. Louis, MO)
 - Pediatric Pulmonology (Baylor University)
 - Three graduates will practice outpatient general pediatrics. Practice locations for those graduates are:
 - Sanford Health in Sioux Falls, SD (2 individuals)
 - Altru Health in Grand Forks, ND

- In March 2023, the program received notification of continued accreditation.
- During the academic year 2022-2023, the USD Sanford Pediatric Residency Program matched six categorical residents who will begin training in June 2023.
- There are six residents in the candidate class of the 2023-2024 academic year. Career plans for these residents include:
 - General Pediatrics Hospital Medicine with Avera Health, Sioux Falls, SD
 - Outpatient general pediatrics (Missouri)
 - Combined inpatient/outpatient general pediatrics (location TBD)
 - Pursuit of fellowship opportunities (Pediatric Emergency Medicine or Neonatal-Perinatal Medicine)

Planned initiatives for 2023-2024

- The USD Pediatric Residency program signed a program letter of agreement and contract with the University of Minnesota, Minneapolis, MN, to enhance resident training in Adolescent Medicine.
- During the 2022-2023 academic year, the program formed a Board Preparation Committee composed of faculty and resident representatives. This committee updated recommendations and requirements for resident board preparation and resident-led board review sessions that went into effect in July 2023.
- New opportunities for residents in the 2023-2024 academic year will include elective rotations in global health, rural health, and with the Indian Health Service.
- An additional continuity clinic location was added in July 2023 at the 26th/Sycamore Pediatrics Clinic. The residency welcomes Dr. Jennifer Haggar (Associate Program Director) and three additional faculty members (Drs. Elizabeth Bauer, Julia Blue, and Michelle Schimelpfenig) to their new roles as resident supervisors at this clinic.
- ACGME Pediatric Program Requirements are under revision and anticipated to go into effect in 2025.

Jessica White, MD

Department of Pediatrics
Residency Program Director
Associate Professor

Meet the Team

Associate Program Directors



Kayelyn Wagner, MD, MME
Pediatric Oncology



Jennifer Haggar, MD
Pediatric Care



Ashley Sandeen, DO
Pediatric Intensive Care

Program Coordinator



Megan Quandt, BA, MBA
Sanford Children's Hospital

Rotation Directors



Kathryn Anderson, MD
NICU



Michelle Baack, MD
Research



Shalome D'Souza, MD
Neurology



Jared Daniel, MD
Orthopedics



Brock Doubledee, DO
Gastroenterology



Donald Ellis, MD
ER



Marcus Frohm, MD
Dermatology



Brooke Jones, MD
Child Abuse & Community Medicine



Vishnu Kanala, MD
Inpatient



Carolyn Kippes, MD
Behavioral and Developmental



Santiago Lopez, MD
Infectious Disease



Edward Mailloux, MD
Acute Illness



Daniel Mark, MD
Palliative Care



Patrick Munson, MD
ENT



Candice Nelson, MD
Adolescent & Continuity Clinic



Gokhan Olgun, MD
Procedures



Gulsah Olgun, MD
Newborn



Ashley Sandeen, DO
PICU



John Sanders, MD
Nephrology



John Shelso, MD
Endocrinology



Maclean Smith, MD
Allergy & Immunology



Geoffrey Tufty, MD
Ophthalmology



Tamara Vik, MD
Mental Health



KayeLyn Wagner, MD
Hematology-Oncology



Bill Waltz, MD
Cardiology



D. Isum Ward, MD
Genetics



Laura Whittington, DO
New Child





Meet the Residents

PGY1



Mohammad Alzoubaidi, MD
Jordan University of Science and
Technology Faculty of Medicine, Al
Ramtha, Irbid, Jordan



Sowmya Kruttiventi, MD
Coimbatore Medical College, Coimbatore,
India



Megan McCulloch, MD
University of Kansas School of Medicine,
Kansas City, KS



Pradeeksha Mukuntharaj, MD
Government Medical College Akola, Akola,
India



Anna Saeed, MD
Aga Khan University Medical College,
Karachi, Pakistan



Patrizia Scali, MD
University of Milan-Bicocca Faculty of
Medicine and Surgery, Monza, Italy

PGY2



Skyler Kinsey, DO
A.T. Still University Kirksville College of
Osteopathic Medicine, Kirksville, MO



Rebecca Mabee, MD
University of South Dakota Sanford School
of Medicine, Vermillion, SD



Michael Naegle, MD
University of Utah School of Medicine, Salt
Lake City, UT



Hayley Shackelford, MD
Ohio State University College of Medicine
and Public Health, Columbus, OH



Didi Thekkethala Winovich, MD
Oregon Health and Science University
School of Medicine, Portland, OR

PGY3



Ashlesha Bagwe, MD
Chief Resident
Gastroenterology Fellowship
Saint Louis University, St. Louis, MO



Kyle Baum, DO
Endocrinology Fellowship
University of Iowa, Iowa City, IA



Ariane Moffett, DO
General Pediatrics
Sanford Health, Sioux Falls, SD



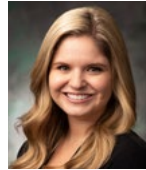
Samuel Hagman, DO
Pediatrics & Hospitalist
Avera McKennan Hospital & University
Health Center, Sioux Falls, SD



Shehbeet Mangat, MD
Pulmonology Fellowship
Baylor College of Medicine, Houston, TX



Ana Nevarez Gilbert, MD
Chief Resident
Neonatology Fellowship
University of Iowa, Iowa City, IA



Nicole Zimmerman, MD
General Pediatrics
Altru Health, Grand Forks, ND



Wellness

- Operation "USD Peds Team Positivity!" continues to recognize and lift up residents.
- Dr. Kyle Baum led "Operation Team Positivity".
- Dr. Ashley Sandeen (Associate Program Director) is collaborating with the USD GME team to create a wellness curriculum for all USD residents.

Quality Improvement Projects

Mohammad Alzoubaidi, MD

Address hypoglycemia in the neonatal intensive care with Dr. Benjamin Houg

Ashlesha Bagwe, MD

Patients with newly diagnosed inflammatory bowel disease with Dr. Melissa Jensen

Samuel Hagman, DO

Follow-up for infants of mothers testing positive for Hepatitis C with Dr. Stephen Messier

Sowmya Kruttiventi, MD

Develop guidelines for frenulotomy with Dr. Suzanne Reuter

Rebecca Mabee, MD

Evaluating the use of intranasal versed

Megan McCulloch, MD

Improve in care in early onset sepsis

Ariane Moffett, DO & Nicole Zimmerman, MD

Update developmental milestones for EPIC with Dr. Jennifer Haggar

Pradeeksha Mukuntharaj, MD

Address incorporation of new guidelines for management of hyperbilirubinemia with Dr. Jackie Grev, Dr. Jessica White, and others

Michael Naegle, MD

Addressing gun safety with Dr. Jennifer Haggar

Skyler Kinsey, DO & Megan McCulloch, MD

Increasing catch-up immunization rates in hospitalized patients with Amanda Hurst, PharmD

Patrizia Scali, MD

Pediatric Inpatient/ED Overdose Admission Algorithm with Dr. Gokhan Olgun

Didi Thekkethala Winovich, MD

Pediatric Inpatient/ED Overdose Admission Algorithm with Dr. Gokhan Olgun

Research Participation

Ashlesha Bagwe, MD

Retrospective chart review of Hospitalized COVID-19 Cases and MIS-C cases in the Sanford Enterprise from 2020 to 2021 with Dr. Santiago Lopez
Neonatal COVID Follow up with Dr. Stephen Messier

Kyle Baum, DO

Evaluating seroprevalence of SARS-CoV-2 in the general pediatric population with Dr. Kurt Griffin

Ana Nevarez Gilbert, MD

SONPM COVID-19 Neonatal Data Registry and local follow-up study with Dr. Michelle Baack
Case report with Dr. Elizabeth Peck

Samuel Hagman, DO

Corticosteroid use and adrenal suppression risk in very low birth weight (VLBW) neonates with Dr. Michelle Baack
Hepatitis C testing with Dr. Stephen Messier
Down Syndrome Guidelines with Dr. Candice Nelson

Sowmya Kruttiventi, MD

Leptin and inflammation markers in cord blood of infants born to diabetic or obese mothers
Frenotomy Guidelines in the NICU and NBN with Dr. Suzanne Reuter

Rebecca Mabee, MD

Placental Lipid Processing in the Setting of Diet-Controlled Gestational Diabetes with Dr. Michelle Baack

Shehbeet Mangat, MD

Influence of respiratory management and fluid status during the first week of life on bronchopulmonary dysplasia in preterm infants with Dr. Baiba Steinbrekera

Pradeeksha Mukuntharaj, MD

Congenital CMV in the Neonate - A Primer with Dr. Suzanne Reuter

Hayley Shackleford, MD

Examining developmental differences in myocardial mitochondrial networks in offspring born to diabetic mothers in the Baack Lab
3D reconstruction of mitochondrial reticulum development with Dr. Ayyappan Prathapan

Pending Manuscripts

Baum, K.R., Salama, M.A., & Al Nofal, A. The Current Medical Treatment of Transgender Children and Adolescents. Pediatrics in Review. Submitted 2023

Rath, T.R., Baum, K.R., Kamstra B., Schriever, J. Integrating OMT into prenatal care visits in Family Medicine resident Clinic. Journal of Osteopathic Medicine. Submitted, in first revision, 2023

Special Training

Dr. Rebecca Mabee and Ana Nevarez Gilbert along with Dr. Suzanne Reuter participated in training to become educators for "Helping Babies Breathe", a program to ensure health care workers in limited-resource settings have the necessary skills and competencies to provide life-saving care to newborns after birth.



Pediatric Faculty Development & Other Teaching

Faculty Development Series Presentations

The department is dedicated to fostering professional and person growth of it's members through a quarterly faculty development series.

September 8, 2022

Practical Tips for Teaching Adult Learners
Jody Huber, MD, Sanford Children's Hospital
KayeLyn Wagner, MD, Sanford Children's Specialty Clinic

December 1, 2022

Educational R.E.M. Day: Revitalizing Educational Modules for increased audience engagement
Traci Wolbrink, MD, Boston Children's Hospital

February 2, 2023

Diversity, Equity, and Inclusion: Making Connections through our Social Identities
Kyle Siemmers, USD SSOM MD/PhD Program
DenYelle Kenyon, PhD, USD and USD SSOM

May 4, 2023

Diversity, Equity, and Inclusion: More than the sum of our parts: Intersectionality in Medicine
Kyle Siemmers, USD SSOM MD/PhD Program
DenYelle Kenyon, PhD, USD and USD SSOM

Grand Rounds Presentations

The Grand Rounds Committee continues to coordinate numerous learning opportunities for faculty and residents throughout the year.

July 28, 2022

Clinical Controversies and Ethical Dilemmas Surrounding Brain Death
Lesta Whalen, MD

August 25, 2022

Stigmatizing Language in Medical Records
Connie Taylor, MD
DenYelle Kenyon, PhD

September 22, 2022

'Epidemic' Of Obesity in the Pediatric Population and a review of Nonalcoholic fatty liver disease
Ashlesha Bagwe, MD

October 13, 2022

Consequences of Exposure to Maternal Diabetes on Puberty and Adiposity
Christy Hockett, PhD

October 27, 2022

Reemergence of the Eradicated: Vaccine History and Common Presentations of Vaccine-Preventable Diseases
Nicole Zimmerman, MD

December 8, 2022

Racism in Medicine: A History?
Dan Boadwine, MD

January 12, 2023

Hep C (HCV) in the Pediatric Population
Sam Hagman, DO

February 9, 2023

New Developmental Milestones in Peds
Jennifer Haggard, MD

February 23, 2023



Guest Virtual Speaker
Asthma and Allergy Interventions
Matt Perzanowski, PhD, Associate Professor of Environmental Health Sciences, Columbia University

March 2, 2023

Department of Family Medicine & Pediatrics Joint Presentation
Improved Best Practices for Routine HPV Vaccinations
Immunize South Dakota

March 9, 2023

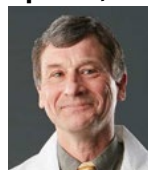
Breaking Barriers, Building Bridges
Kyle Baum, DO

April 6, 2023



A Healthy Smile is Just the Beginning:
Comprehensive Care of Oral facial Clefts
Ana Nevarez Gilbert, MD

April 13, 2023



T. Denny Sanford Distinguished Lecturer
Pediatric Research & Scholarship Day:
Advances in Rare Disease Diagnosis and Treatment: Learning from your patients
Gerard Vockley, MD, University of Pittsburgh Medical Center

April 27, 2023

Diet, Food Security, and the Rural Food Environment
Lacey McCormack, PhD

May 11, 2023



Vaping, E-Cigarette Use in the Pediatric Population and Acute Lung Injury
Shehbeet Mangat, MD

May 25, 2023

Sport-Related Concussion: Scientific Advancements in Clinical Management
Thayne Munce, PhD

June 8, 2023

From Hopscotch to TikTok: Social Media and its Effects on Our Youth
Ariane Moffett, DO

Didactic Lectures & Other Teaching Activities

BLS, PALS, NRP or APLS Instructor

Craig Crismon, MD
Adam Dell, MD
Jacqueline Grev, MD
Jody Huber, MD
Lisa Lubbers, CNP
Stephen Messier, MD
Debra Nearman, NNP
Amanda O'Neil, APRN, CNP
Charisse Ortman Brockmueller, APRN, CNP
Laurie Richards, MD
Jessica White, MD
April Willman, MD

Clinical Correlation Lectures, Pillar 1

April Willman, MD

Tonya Adamiak, MD

Esophageal Disorders
Vomiting

Palmer Alicia, MD

Pediatric Exam - Rapid City x2

Michelle Baack, MD

USD CPHD 762, BBS Developmental Biology of Disease:
Effect of Diet on Early Development

Francisco Bustos, PhD

Ubiquitin System in Disease. CPHD 762 Developmental Biology of Disease

Arielle Deutsch, PhD

The multiple roles of health practitioners in translational research: Being a good research consumer - University

of South Dakota Sanford School of Medicine Resident Education Series, August 1, 2022

Don Ellis, MD

Anaphylaxis
EBM Approach to Pediatric Seizures
Introduction to Pediatric Trauma

Sara Free, MD

Anticipatory Guidance Focus on Safety
Enuresis

Carl Galloway, MD

Fluids and Electrolytes
Handoffs and Communication
Urinary Tract Infections

Jacquelyn Grev, MD

Persistent Pulmonary Hypertension and Meconium Aspiration Syndrome, USD-Pediatric Residency Noon lecture (12/5/22)
Neonatal Hypoxic Ischemic Encephalopathy, USD-Pediatric Residency Noon lecture (2/27/23)

Jennifer Haggar, MD

ADHD Diagnosis
ADHD Treatment
Firearm Safety
Mood Disorders Treatment

Leah Heidenreich, MD

Breastfeeding Basics, Resident Noon Conference

Jody Huber, MD

Shock; August 2022
Altered Mental Status; November 2022

Marni Johnson-Martin, AuD

FAMP 540: Interdisciplinary Health Care Teams

DenYelle Kenyon, PhD

1st Year Medical Students Topic: Social Identity Workshop – small groups (part 2) Lead presenter: Siemers (4/4/23, 4/12/23, 4/18/23)
1st Year Medical Students Topic: Implicit Bias (2/14/23)
The University of Minnesota – Duluth HLTH: 3000: Community Health Methods Topic: My Journey with South Dakota Urban Indian Health (1/23/23)
The University of South Dakota Psychiatry Residents Topic: Diversity, Equity, Inclusion in the Medical Setting (1/18/23)
The University of South Dakota 3rd Year Medical Students Topic: Health Disparities in Setting of Quality Improvement (11/16/22)
The University of South Dakota Undergraduate Honors 290 Topic: Health Outcomes and Disparities (10/6/22)
The University of South Dakota 3rd Year Medical Students Topic: Diversity and Inclusion: LGBTQ Health Co-presenters: Dilenschneider, Drappeau, S. Marty (9/30/22)

The University of South Dakota 3rd Year Medical Students Topic: Diversity and Inclusion: American Indian Case Studies & Upstander Training Co-presenters: Dilenschneider, Leader Charge, Drappeau (9/23/22)

The University of South Dakota 1st Year Medical Students Topic: Diversity, Social Determinants of Health, Bias Co-presenters: Drappeau, Leader Charge (8/10/22)

Carolyn Kippes, MD

Developmental Milestones for Genetic counseling students at Augustana, October 2022

Attila Kovacs, PhD

Lysosomal Storage Disorders, Molecular Mechanisms of Disease graduate course, Sioux Falls, April 19, 2023

Lance Lee, PhD

CPHD 762 (Molecular Mechanisms of Disease), USD
DNA Replication and Repair in Disease I
DNA Replication and Repair in Disease II
Iron Metabolism in Disease
Copper Metabolism in Disease
Motile Cilia Disorders
CPHD 763 (Developmental Biology of Disease), USD
Early Development I
Early Development II
Early Development III
Gastrointestinal Development and Disorders I
Gastrointestinal Development and Disorders II
Lung Development and Disorders I
Lung Development and Disorders II
Reproductive Development and Disorders
Limb Development and Disorders I
Limb Development and Disorders II
Effect of Maternal Alcohol on Development
Effect of Viruses on Development

Daniel Mark, MD

Communication Skills for Providers, Transition to Residency Course (3/20/23)
Fundamental Aspects of Pediatric Palliative Care, USD
Interdisciplinary Palliative Care Seminar (10/7/22)

Stephen Messier, MD

Educational material to residents on newborn screening
Neonatal Respiratory Management
Respiratory distress in the newborn

Eric Mittelstaedt, MD

Cardiac Emergencies, Sanford Children's, June 2023

Candice Nelson, MD

Adolescent Medicine, Pediatric Residency, Children's Hospital
Coding Guidelines, Pediatric Residency, Children's Hospital
Developmental Milestones, Pediatric Residency, Children's Hospital
Health Supervision, Pediatric Residency, Children's Hospital

Otitis Media, Pediatric Residency, Children's Hospital

Gokhan Olson, MD

Upper Respiratory Tract Infections in Pediatric Intensive Care Unit, Sioux Falls, SD

Elizabeth Peck, MD

Eating disorder and refeeding syndrome, noon lecture

Kayli Reece, MD

Safety in the home, resident classroom (11/15/22)
Screen time, resident classroom (5/30/23)

Suzanne Reuter, MD

Work-Life Integration for Resident Physicians

Laurie Richards, MD

Retinopathy of Prematurity, Pediatric Resident Noon Conference
Total Parenteral Nutrition in the NICU, Pediatric Resident Noon Conference

Kyle Roux, PhD

Nuclear Envelope in Health and Disease, BBS/SDSU course Molecular Mechanisms of Disease, Sanford Research
Protein Interactions, BBS/SDSU course Molecular Mechanisms of Disease, Sanford Research
Protein Structure, BBS/SDSU course Molecular Mechanisms of Disease, Sanford Research

Samuel Schimelpfenig, MD

Chronic Fatigue in Athletes, Sanford Pediatric Residency Noon Conference
Common Orthopedic Injuries in Pediatric Patients, Sanford Pediatric Residency Noon Conference
Pediatric Elbow Injuries, Sanford Pediatric Residency Noon Conference
Sports Physicals, Sanford Pediatric Residency Noon Conference
Sports Related Concussion, Sanford Pediatric Residency Noon Conference

Maria Skorey, MD

Neural Tube Defects

Baiba Steinbrekera, MD

Calcium and Phosphorus in the NICU World. Pediatric Resident Noon Lecture Series

Kristin Stuiwe, DO

Reach Out and Read

Kameswaran Surendran, PhD

CPHD 762 Molecular Mechanisms of Disease, Signal Transduction in Disease I (Notch signaling)
CPHD 763 Developmental Biology of Disease, Kidney Development & Disorders I
CPHD 763 Developmental Biology of Disease, Kidney Development & Disorders II

Jianning Tao, PhD

Bone Development & Disorders I & II (Course code: USD: CPHD 763 and SDSU: CHEM 763)

Lesta Whalen, MD

Diabetic Ketoacidosis November 2022, Sanford Health
Traumatic Brain Injury May 2023, Sanford Health

Jessica White, MD

Neonatal Withdrawal (Escape Room), resident didactic lecture

April Willman, MD

Board review, Yankton, Part 1
Board review, Yankton, Part 2
Casting, Yankton Medical Clinic (5/25/23)
Pediatric Lumbar Puncture, Yankton (11/17/22)
Clinical Foundations 3, Intro to Peds H&P, Vermillion (9/8/22)
Pediatric IO placement, Yankton (7/22)

Patient-Based Learning (PBL) Cases - Pillar 1

Benson Hsu, MD

OSCE Examiner

Melissa Jensen, MD
Gulsah Olgun, MD
Halle Randall, MD

Simulation Training

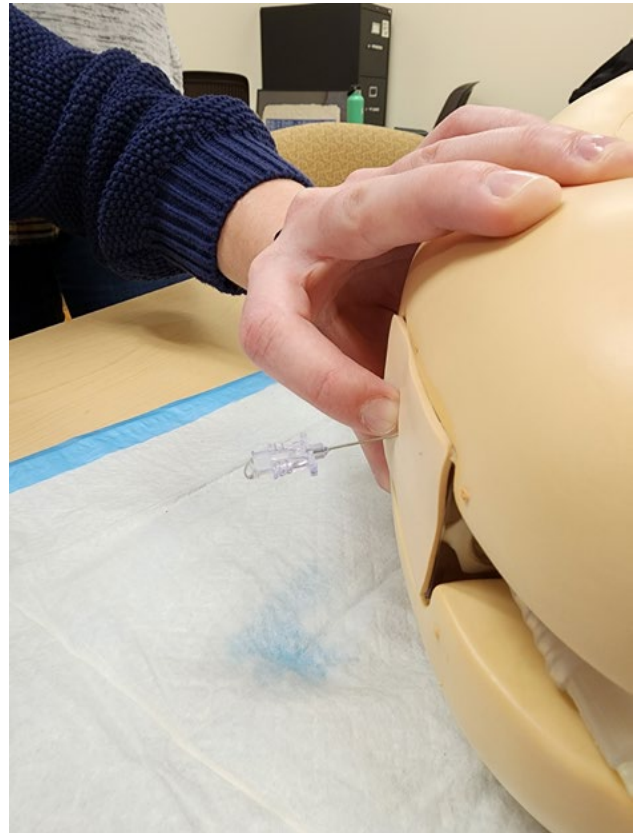
Kathryn Anderson, MD
Michelle Baack, MD
Jacquelyn Grev, MD
Jennifer Haggar, MD
Jody Huber, MD
Lisa Lubbers, CNP
Stephen Messier, MD
Lauritz Meyer, MD
Catherine Nelson, DO
Jessica Olcott, MD
Gokhan Olgun, MD
Amanda O'Neil, APRN, CNP
Charisse Ortman Brockmueller, APRN, CNP
Laurie Richards, MD
Maria Skorey, MD
Lesta Whalen, MD
Jessica White, MD

Small Group/Journal Club

Michelle Baack, MD
Adam Dell, MD
Jody Huber, MD
Eric Mittelstaedt, MD

Triple Jump Exercises

Margaret Kuehler, MD
Gokhan Olgun, MD
Sara Pepper, MD
Samuel Schimelpfenig, MD
April Willman, MD



Innovation

The department of pediatrics is fortunate to have many academic faculty working in basic, translational, clinical, and population health research focused on advancing the future health of mothers, infants, and children in South Dakota, and beyond. Our academic researchers are increasingly recognized as leaders in their field. This is evident by their growing scholarly output which includes 91 publications, 64 grants, and 152 presentations (36 local, 41 regional, and 75 national or international). Innovation in the department was highlighted at the 9th annual Pediatric Research and Scholarship Day which hosted Dr. Gerard Vockley, Professor of Pediatrics and the Division Director of Genetic and Genomic Medicine at the University of Pittsburgh as the 2022 T. Denny Sanford Distinguished Lecturer. He discussed his internationally recognized work in the field of inborn errors of metabolism. The Research and Scholarship Day and abstract graders (Drs. Kevin Francis, Louis Jan Pilaz, Francisco Bustos, Christine Hockett, Lacey McCormack, Arielle Deutsch and Melissa Jensen) who selected 27 abstracts that were presented during the day. Congratulations to award winners in the categories of Best QI (Dr. Maria Talavera-Barber), Best Clinical or Translational Research (Dr. Anna Strahm), Best Case Study (Hunter O'Connor, MSIII, Amber Veldman, MSIV, and Dr. Carl Galloway), Best Basic Research by an Early Investigator (Dr. Jazmine Yaeger, Francis Lab) and Best Basic Research by a Student (Abigail Klein, Baack Lab).

Research, Grants & Projects



Jyoti Angal, PhD
1U54HD113179-01
Maternal American-Indian Rural
Community Health (MARCH)
Sub-I

UH3 OD023279
Environmental Influences on Child Health Outcomes in
the Northern Plains Safe Passage Study Cohort – Phase II
Sub-I



Michelle Baack, MD
2UG1HD053109-18
NIH/NICHHD
NICHD Cooperative Multicenter Neonatal
Research Network
Sanford Site PI

Burroughs Welcome Fund 2022 Next Gen Pregnancy
Initiative
Uteroplacental Insufficiency Disrupts Placental-Fetal
Lipid Regulation and Dynamics
Co-I

1R01HL160980
NIH/NHLBI Cardiovascular Diseases Research
Dietary interventions to modulate heart health in
offspring born to diabetic mothers and the subsequent
generation
PI

5UG1HD053109/Subaward W000910508
NIH/NICHHD
NICHD Cooperative Multicenter Neonatal Research
Network
Sub-I

R13 HD110197
NIH/NICHHD
Aspen/Snowmass Perinatal Biology Conference
Co-organizer

USDA-NIF
Animal Health and Production Animal, 2022 Aspen/
Snowmass Perinatal Biology Conference
Co-organizer



Indra Chandrasekar, PhD
DaccoTa Feasibility Grant
Urinary uromodulin as a biomarker for
TAL and distal nephron adaptation in
patients undergoing diuretics treatment
PI



Arielle Deutsch, PhD
CDC
A community-based systems science
approach to assess risk and protective
factors and improve the efficacy and
equity of interventions strategies for

stimulant use, use disorder, and overdose
Co-PI

R01 DA050696
NIH/NIDA
Community Based System Dynamics Models of Alcohol
and Substance Exposed Pregnancy in Northern Plains
American Indian Women
PI

6H79SM093039-01M001
SAMHSA
Great Plains Circles of Care
Consultant



Amy Elliott, PhD

OTA-21-015B
NIH/NHLBI
The NIH-ECHO Recovery Cohort for Describing and Evaluating Risks for Post-Acute Symptoms of SARS-CoV-2

Infection in U.S. Children (RECOVER)
Site PI

UG1OD030019
NIH/Office of the Director
South Dakota Pediatric Clinical Trials Network (SoDakPCTN)
PI

R01DA050696
NIH/NIDA
Community based system dynamics models of alcohol and substance exposed pregnancy in Northern Plains American Indian women
Co-I

UH3OD023279
NIH/Office of the Director
Environmental influences on child health outcomes in the Northern Plains Safe Passage Study
PI



Kevin Francis, PhD

T. Denny Sanford Endowed Pediatric Collaborative Award
Defining the impact of astrocyte-neuron trafficking deficits within the pediatric disorder Smith-Lemli-Opitz syndrome

2022-2024
Co-PI

Dakota Community Collaborative on Translational Activity, NIGMS/NIH
Interplay between cholesterol metabolism and extracellular vesicles in head and neck cancer
2021-2022
PI

Smith-Lemli-Opitz/RSH Foundation
Defining the impact of DHCR7 disruption on astroglia
2021-2022
Sponsor



Kurt Griffin, MD

Helmsley Charitable Trust and Sanford Health
Sanford PLEDGE [Sanford Project Leveraging Differential Gene Expression against Type 1 Diabetes]

2022-2025
PI



Christine Hockett, PhD

2UG3OD0232379-09
PASS-ECHO Cohort
Environmental influences on Child Health Outcomes in the Northern Plains MPI

UK9RH46981
RMOMS SD
Leveraging data, partnerships and integrated perinatal care to improve health equity among birthing people in South Dakota
Co-I

13350608
USDA
Avera McKennan-Food as Medicine (FaM): a hospital-based approach to increase access and intake of fruits and vegetables to reduce the risk of chronic disease in rural America
PI

UG1 OD030019
South Dakota Pediatric Clinical Trials Network (SoDakPCTN)
Co-I

OTA-21-015B
NIH-ECHO
The NIH-ECHO Recovery Cohort for Describing and Evaluating Risks for Post-Acute Symptoms of SARS-CoV-2 Infection in U.S. Children
Co-I

R03HD109355
NICHD
Documenting and archiving the Safe Passage Study in NICHD Data and Specimen Hub (DASH)
PI

3-SRA-2022-1106-S-B
Avera eCare School Health T1D Demonstration Project
PI

R01 HL126578
Diet Intervention for Hypertension: Adaptation and Dissemination to Native Communities
Site PI



Marni Johnson Martin, AuD

SD DOH
SD Disability Cultural Competence Community of Practice Project ECHO Series
PI



Michael Kareta, PhD
 R01CA233661
 NIH R01
 Oncogenic Mechanism of Sox2 in Rb-Deficient Tumors
 PI

2P20GM103620
 NIH CoBRE
 Functional Genomics & Bioinformatics Core
 Core Co-Director

R56NS117926
 NIH R56
 Elucidating the Epigenetic Landscape of Neurofibromatosis and Development of Therapeutic Targets
 Co-I

1R21CA256638
 NIH R21
 Novel Mechanisms Controlling SCLC Tumor Initiation
 Co-I

1R01HL160980
 NIH R01
 Dietary interventions to modulate heart health in offspring born to diabetic mothers and the subsequent generation
 Co-I



DenYelle Kenyon, PhD
 South Dakota Department of Health
 South Dakota Violent Death Reporting System (SDVDRS) Evaluation
 Sub-I



Lance Lee, PhD
 Sanford Health Foundation
 The Airway Ciliary Microenvironment in Primary Ciliary Dyskinesia
 PI

REU #1756912
 National Science Foundation
 REU Site in Cellular and Molecular Biology at Sanford Research
 PI

R25HD097633
 National Institutes of Health/Eunice Kennedy Shriver National Institute of Child Health and Human Development
 Pediatric Biomedical Research Program
 Lead PD

T32GM136503
 National Institutes of Health/National Institute of General Medical Sciences
 G-RISE University of South Dakota
 Co-PI



Peter Paul Lim, MD
 RECOVER Study
 Sub-I



Abdelhalim Loukil, PhD
 R35GM151229
 NIH
 NIGMS
 PI



Lacey McCormack, PhD
 USDA-NIFA-FINI-009061
 Avera McKennan-Food as Medicine (FaM): a hospital-based approach to increase access and intake of fruits and vegetables to reduce the risk of chronic disease in rural America
 Co-I

1UK9RH46981-01-00
 HRSA
 RMOMS SD: Leveraging data, partnerships and integrated perinatal care to improve health equity among birthing people in South Dakota
 Co-I

1T34HP42135-1-00
 HRSA
 Rural Maternity Care Project
 Evaluation Lead

G01RH32150
 HRSA
 Northern Plains Tele-Behavioral Health Research Network (eTriage)
 Evaluation Lead



SD DOH flow through CDC
Community Health Worker Collaborative of South
Dakota Mini Grants
Evaluation Lead



Thayne Munce, PhD
Mayo Clinic, T. Denny Sanford Pediatric
Collaborative Research Fund
The Effect of Synaquell on Brain Health
in Male and Female Youth Contact Sport
Athletes

Co-PI

National Operating Committee on Standards for Athletic
Equipment (NOCSAE) Grant Program
Sex-Related Measures of Brain Health Youth Contact
Sport Athletes
PI



Candice Nelson, MD
Pledge Study
Sub-I



David Pearce, PhD
P20 GM103620
NIH
Center for Pediatric Research
09/01/18-08/31/23
PI



Louis-Jan Pilaz, PhD
1R01MH129419-01A1
PI
Don't Forget Morgan Foundation Grant
PI

Sanford Health Foundation Pilot Grant
PI



Kyle Roux, PhD
R35GM126949
PI

5P20GM103620
Core-Lead



Amy Scepaniak, MS
H326T230039
USD
SD DeafBlind Program
PI



Kameswaran Surendran, PhD
DK123180
NIH/NIDDK- R01
Molecular and cellular basis of the
renal diseases associated with Alagille
Syndrome

PI

P20GM103620
NIH/NIGMS Center for Pediatric Research
Functional Genomics and Bioinformatics Core
Co-Lead

DK106135
NIH/NIDDK- R56
Molecular Regulators of Renal Collecting Duct
Differentiation and Maintenance
PI



Maria Talavera-Barber, DO
1 UG1 OD030019-01
South Dakota Pediatric Clinical Trials
Network (SoDakPCTN)
Co-I

5 UH3 OD02379-06
Environmental Influences on Child Health Outcomes in
the Northern Plains Safe Passage Cohort
Co-I



Jianning Tao, PhD
T. Denny Sanford Pediatric Collaborative
Research Award
Characterization of Pediatric Lateral
Meningocele Syndrome Mouse Model
and Treatment

PI

Innovations in Oncology Award in Partnership with the
L3 Foundation
Characterizing and Targeting Intrinsic and Immune
Modulatory Functions of PAK4 In High-Risk
Rhabdomyosarcoma
Co-I



Lesta Whalen, MD
ASCEND (ARDS in Children and ECMO
initiation strategies impact on Neuro-
Development)
Site PI

Conference Presentations

National/International Presentations

Michelle Baack, MD

Aspen Perinatal Biology Meeting; Aspen, CO. August 28-31, 2022. Influence of maternal diabetes on the development of myocardial mitochondrial reticulum. T. Gandy*, A. Paulsen, P. Ayyappan, D. Sturdevant, T. Christensen, J. Salisbury, M. Baack. *Poster presentation

Aspen Perinatal Biology Meeting; Aspen, CO. August 28-31, 2022. Investigating the effects and inheritability of a maternal high fat diet on embryo health. A. Klein*, T. Larsen, C. T. Gandy, K. Siemers, M. Baack, MD. *Poster presentation

Aspen Perinatal Biology Meeting; Aspen, CO. August 28-31, 2022. Differential fatty acid uptake in human trophoblast cells is ATP-dependent. K Siemers*, T Gandy, T Larsen, M Baack. *Poster presentation

American Heart Association – Basic Cardiovascular Sciences meeting; Chicago, IL. July 25-28, 2022. Influence of maternal diabetes and high fat diet on myocardial ketone body metabolism in the offspring. Prathapan Ayyappan*, Tricia D. Larsen, Tyler C.T Gandy, Michelle L. Baack. *Poster presentation

Kyle Baum, DO

Kyle Baum, Ann Mays, Sharon Hunt, William A. Hagopian, and Kurt J. Griffin. "Implementation of a General Population Screening Program for Type 1 diabetes and Celiac Disease with cross-sectional surveillance of SARS-CoV-2 seropositivity." Poster Presentation. Pediatric Endocrinology Society. San Diego, CA, USA. 5 May 2023

Indra Chandrasekar, PhD

Invited Speaker, "Meet the Expert" Webinar. Proteintech Inc. "Exploring the kidney cellular and organelle architecture using immunofluorescence imaging techniques"

American Physiology Summit, Long Beach, CA. April 2023. Nonmuscle myosin II proteins, Myh9 and Myh10, interact with unconventional myosin Myo18A in immortalized mouse thick ascending limb epithelial cells. Jenna L. Zimmerman, Brook W. Busselman, Karla L. Otterpohl, and Indra Chandrasekar. Poster Presentation

American Physiology Summit, Long Beach, CA. April 2023. Aberrant adaptation of the inner medullary collecting ducts results in sodium retention and hypernatremia in a thick ascending limb specific Myh9 and Myh10 conditional knockout mouse model. Karla L. Otterpohl, Brook W. Busselman, Jenna L. Zimmerman, Malini Mukherjee, Kameswaran Surendran, and Indra Chandrasekar. Poster Presentation

American Physiology Summit, Long Beach, CA. April 2023. Automated serial section electron microscopy and 3D reconstruction reveals role for nonmuscle myosin II in organelle structure and cargo transport regulation within the murine kidney thick ascending limb. Brook W. Busselman, Karla L. Otterpohl, Jenna L. Zimmerman, Malini Mukherjee, Mark Terasaki and Indra Chandrasekar. Poster Presentation and Oral Presentation by BB at the Pre-ETG meeting session

Arielle Deutsch, PhD

Deutsch, A. R., Frerichs, L., Coleman, A., Murphey, F. (June 2023). How structural racism maintains inequitable benefits of healthcare-based strategies to reduce alcohol use during pregnancy for Indigenous women. Research Society of Alcoholism Annual Conference, Seattle WA

Deutsch, A. R., Edwards, K.M., Waterman. E. A., Mullet, N., Herrinton, R., Hopfauf, S., Trujillo, PL, Even-Aberle, N., Wheeler, L. A. & Cornelius, S. (April 2023). Protective and risk contexts for intimate partner violence victimization and perpetration among Indigenous women caregivers. Rescon, Nashville TN

Deutsch, A. R., Olson, M., Tyon, G., Harrington, R. & Edwards, K. M. (April 2023). Research as Me-Search to Research as We-Search: A conversation between people who do community based action research on triumphs, traumas, and transformation. Rescon, Nashville TN

Deutsch, A. R. (September 2022). Project SYNCH: Embracing complexity through community-based systems science for equitable action. Society for Research on Child Development Themed Conference: Towards a Holistic Developmental Science. St Louis, MO

Deutsch, A.R., Jalali, M. S., Chau, E. & Motabar, N. (July 2022). Representing lifetime drinking pattern diversity in a quantitative model of alcohol use: A literature-informed approach. System Dynamics Society Annual Conference, Online/Frankfurt Germany (Hybrid)

Amy Elliott, PhD

ECHO - lessons from the field. Elliott AJ, Invited presentation at the International Society for Developmental Psychobiology, Utrecht, Netherlands

Leveraging real-world evidence effectively. Elliott AJ, Invited presentation to Strategic Account Management Association annual meeting, Charlotte, NC

Elliott AJ, Bringing cutting-edge research to the prairie. Invited keynote speaker for Chicago Medical School research fair, Chicago, IL

Elliott, AJ. Prenatal exposures and infant death. Invited presentation to the US Congressional Commission on Native Children Virtual Hearing: Physical health-wellness and accident prevention, virtual

Kevin Francis, PhD

Francis KR, Smith-Lemli-Opitz Syndrome Medical and Scientific Conference, Seattle, WA. "Modeling Smith-Lemli-Opitz syndrome with patient-derived induced pluripotent stem cells", June 22nd – 24th, 2023

Francis KR, Smith-Lemli-Opitz Syndrome Medical and Scientific Conference, Seattle, WA. "Sterol dysregulation in Smith-Lemli-Opitz syndrome causes astrocyte immune reactivity through microglia crosstalk", June 22nd – 24th, 2023

Francis KR. NICHD Division of Intramural Research Symposium, Biophysics of lipids in development and disease, Virtual event, "Sterol metabolism at the intersection of structural biology, cell function, and human disease", August 11th, 2022

Jordan Fritch-Hanson, MD

Krause C, Blay R, Flores L, High R, Fritch J, Bilek L, Acquazzino MA. Insulin resistance after pediatric cancer treatment and the impact of the habitual physical activity. (Presented at the International Symposium on Late Complications after Childhood Cancer conference, Atlanta, GA, June 2023)

Kurt Griffin, MD

"General Population Screening for Pre-symptomatic Type 1 Diabetes" Hospital Metropolitano, San José, Costa Rica. 29 June 2023

"General Population Screening for Pre-symptomatic Type 1 Diabetes" Hospital Nacional de Niños, San José, Costa Rica. 29 June 2023

"Translating Teplizumab Therapy into Clinical Practice – a Regional Health System Perspective." American Diabetes Association Scientific Sessions, San Diego, CA, 24 June 2023

General Population Screening for Type 1 Diabetes - Kaiser Permanente, Southern CA. 25 January 2023

"Integration of Screening and Monitoring with routine care and EHR in the Sanford PLEDGE Study." 5th Childhood Diabetes Prevention Symposium, Barbara Davis Center, Denver, CO. 11 November 2022

General Population Screening for Type 1 Diabetes - Geisinger Health, Danville, PA. 11 July 2022

Christine Hockett, PhD

Invited Speaker, 17th Biennial Meeting of the Diabetes in Pregnancy Study Group of North America, Washington, DC, October 26th-28th 2023

Benson Hsu, MD

National Pediatric Donation and Transplantation Summit: Current State of Pediatric Donation and Transplantation (Tom Nakagawa MD, Simon Horslen MD, Benson Hsu MD)

Jody Huber, MD

"APA Journal Club: Re-Caffeinating Morning Report: How Improvement Science Can Enhance the Quality of Residency Education" Michael Ryan, Jody Huber. Academic Pediatric Association Medical Education Journal Club. Virtual Presentation. December 2022

Amanda Hurst, PharmD

Antimicrobial Stewardship in Underexplored Settings - Pediatric Stewardship in Adult-Ped Hospital, Amanda Hurst, IDSA IDWeek 2022 (Washington DC)

Marni Johnson Martin, AuD

Grand Rounds: Pediatrics; Ursula M. Findlen, Marni Johnson Martin, Jennifer K. Drohosky, Erin W. Adkins, Stephanie Williams, American Academy of Audiology 2023 Convention, Seattle, WA

NTI - SCOPE Panel Equitable Supporting Children of the Opioid Epidemic: Breaking Down by Barriers by Training the Whole Nation; Canyon Hardesty, Tai Baker, Eric Moody, Steph Weber, Andrea Witwer, Jennifer Hall-Lande, Caroline Gooden, Carol Terilli, Betsy Humphreys, Marni Johnson Martin; Association of University Centers on Disabilities 2022 Conference, Washington, DC

Michael Kareta, PhD

Cancer Testis Antigens (CTAs) as a driver of chemoresistance in SCLC, Michael Kareta, NCI SCLC Consortium (virtual)

Rebecca Lustfield, PhD

Lustfield, R. & Russo, J. Expanding the Continuum of Medical Student Wellness in a Small Midwestern Medical Institution. International Association of Medical Science Educators, Cancun, Mexico, June 2023

Academic Coaching in Medical Education: A Focus on Faculty Development and Assessment

Ikuo Masuho, PhD

GPCR Signaling in Health and Disease, Ikuo Masuho, GPCR Research Group, Japan

Thayne Munce, PhD

Brand CR, Munce TA, Scholten SD. Correlations between subjective and subjective wellness measures: an observational study with cross country runners. Annual Meeting of the American College of Sports Medicine, Denver, CO. (Student mentor, co-author)

Munce TA, Dorman, JD. Gameday physical performance measures of youth, high school and collegiate football players using GPS technology. Annual Meeting of the American College of Sports Medicine, Denver, CO

Munce TA, Fickling SD, Poel DN, D'Arcy RCN. MMA athletes demonstrate different brain vital sign profiles compared to matched controls at "baseline". Sports Neuropsychology Society Annual Concussion Symposium, Denver, CO

Munce TA. The First Down Project: Brain Health Research in Youth Football, Noll Seminar, Department of Kinesiology, Penn State University, University Park, PA (presented virtually)

Munce TA. Concussion Diagnosis and Recovery Timelines in Relation to Collegiate Athletic Department Classification: A LIMBIC MATARS Consortium Investigation, LIMBIC MATARS Consortium Conference, University of Virginia, Charlottesville, VA

Valentine V, Didehbani N, Munce T, Kelshaw P, Oldham J, Bowman T, Cullum, CM, Higgins, K, Cifu D, Resch J. The influence of attention-deficit/hyperactivity disorder on recovery from sport concussion among collegiate athletes in the United States: a LIMBIC MATARS consortium investigation. 6th International Consensus Conference on Concussion in Sport, Amsterdam, NL. (Co-author/Collaborator)

Beidler E, Wallace J, Kelshaw P, Pappadis M, Bowman T, Munce T, Didehbani N, Cifu D, Resch J. Racial identity and concussion recovery timelines among collegiate athletes in the United States: a LIMBIC MATARS consortium investigation. 6th International Consensus Conference on Concussion in Sport, Amsterdam, NL. (Co-author/collaborator)

Combs J, Poel DN, Valentine VD, Munce TA. Assessment of neurologic function in mixed martial arts fighters. 6th International Consensus Conference on Concussion in Sport, Amsterdam, NL. (PI/Senior Author)

Hansen KM, Dorman JC, Combs J, Munce TA, Valentine VD. Effects of time to clinic on concussion outcome measures. 6th International Consensus Conference on Concussion in Sport, Amsterdam, NL. (Co-author/Co-I)

Resch JE, Wilmoth K, Beidler E, Broshek DK, Munce T, Kelshaw P, Bowman T, Cullum CM, Cifu DX. Sport concussion reporting and recovery related to sex and access to a dedicated athletic trainer: a LIMBIC MATARS consortium investigation. 6th International Consensus Conference on Concussion in Sport, Amsterdam, NL. (Co-author/Collaborator)

Catherine Nelson, DO

Anti-Leukemic Activity of STRO-002 a Novel Folate Receptor- α (FR- α)-Targeting ADC in Relapsed/Refractory CBF2AT3-GLIS2 AML, Dr. Soheil Meshinchi, Fred Hutch Cancer Research Center, Dr. Lane Miller, Children's Minnesota; Dr. Robin Williams, University of Minnesota Masonic Children's Hospital; Dr. Stephanie Massaro, Yale; Dr. Elizabeth Krieger, VCU; Dr. Melinda Pauly, Children's Healthcare of Atlanta; Dr. Catherine Nelson, Sanford Health; Dr. Deepa Bhojwani, Children's Hospital Los Angeles; Dr. Rebecca Johnson, Mary Bridge Children's Hospital; Dr. Terzah Horton, Baylor; Dr. Hamayun Imran, University of South Alabama (USA Health); Dr. Wen-I Chang, Hasbro Children's Hospital (Lifespan);

Dr. Philip Neff, Dell Children's Hospital; Dr. Matthew Kutney, University of Alabama Birmingham; Dr. Raul Ribeiro, St. Jude Children's Research Hospital; Dr. Felipe Bautista, Novant Health Hemby Children's Hospital; Dr. Terri Guinipero, Nationwide Children's Hospital; Kate Murray, Sutro Biopharma, Alex Butte, Sutro Biopharma, Arturo Molina Sutro Biopharma, American Society of Hematology, Involved in development of abstract

Amanda O'Neil, RN, MSN, CNP

Presenter of poster "Customized Silicone Dressing Under Non-invasive Ventilation and Skin Bundle to Reduce Pressure Injuries in Neonates" at Academy of Neonatal Nursing in Hawaii, April 2022

David Pearce, PhD

Samaritan's Feet: Weekend of Hope, Charlotte, NC, May 2023. "HPV Vaccination Distribution in Ghana"

19th Orphan Drugs & Expanded Access Programmes Global Congress 2023 Europe, London, England, April 2023. "Advancing rare disease research from discovery to treatment access"

Children's Health Research Center Event, San Diego, CA, April 2023. "A Snapshot of Children's Research at Sanford Health"

International Rare Diseases Research Consortium (IRDiRC), Workshop, Berlin, Germany, March 2023. "Demystifying Gene Therapies for Better Understanding and Accessibility"

Metropolitana Pediatrics Symposium, San Jose, Costa Rica, March 2023. "From the bench to treatment: The complex landscape of rare diseases"

6th Annual Gene Therapy for Rare Disorders, Boston, MA, March 2023. Presentation "Understanding the Impacts to Various Stakeholders in the Rare Disease Community" and session chair

15th International Collaboration on Rare Diseases and Orphan Drugs (ICORD) Conference, Gene and Cell Therapies: Hope and Realities of Advances in Regenerative Medicine, virtual, February 2023, "Increasing Global Access to Interventions", Session Co-Chair, "Global Distribution, Supply, and Storage Systems", Presenter

European Joint Programme on Rare Diseases (EJP-RD) Clinical Research Networks (CRN), Paris, France, December 2022, "Networking Pathways & Collaboration between Clinical Research Networks", Panel Moderator

Louis-Jan Pilaz, PhD

"Investigating the role of RNA localization and local translation in neuronal migration" Gordon Research Symposium/Conference, 2022, Mentor

"WDR45-mediated autophagy in brain development, neuronal outgrowth, and mitochondrial regulation"
Brain Development Gordon Research Conference, 2022,
Mentor

Gordon Research Conference, Breasi-CRISPR: an efficient genome editing method to interrogate protein localization and protein-protein interactions in the embryonic mouse cortex, Presenter, Meyerink BL, KC P, Tiwari NK, Kittock CM, Klein A, Evans C, Pilaz LJ

Kyle Roux, PhD

CT Halfmann, RM Sears, KL Scott, KJ Roux. (2022)
Uncovering mechanisms by which barrier-to-autointegration factor controls dynamics of nuclear leakage and repair following nuclear envelope rupture. American Society of Cell Biology/EMBO Annual Meeting, Cell Bio 2022. Minisymposium talk by CT Halfmann

KL Scott, P Purkayastha, TP Lele, KJ Roux. (2022)
Nucleocytoplasmic transport is regulated by forces on the nucleus. American Society of Cell Biology/EMBO Annual Meeting, Cell Bio 2022. Minisymposium talk by KL Scott

Jaymi Russo, Med

Lustfield, R. & Russo, J. Expanding the Continuum of Medical Student Wellness in a Small Midwestern Medical Institution. International Association of Medical Science Educators, Cancun, Mexico, June 2023

Lustfield, R. & Russo, J. Moving Toward Competency-Based Assessment in Medical Education. 2022 Assessment Institute, Indianapolis, IN, October 2022

Amy Scepaniak, MS

American Council for the Blind -Winds of Change 62nd Annual Conference, Chicago - Mobility and Beyond: Taming the rural landscape

NCDBEN Community of Practice, Online - Cortical Vision Impairment

Samuel Schimelpfenig, MD

American College of Sports Medicine annual meeting in Denver CO June 2023; "Environmental Cold Injuries in Athletes"

Kameswaran Surendran, PhD

mTOR activity in Notch signaling mediated maintenance of epithelial cell diversity in the kidney collecting ducts. Jennifer deRiso, Malini Mukherjee, Madhusudhana Janga, Yohannes Tecleab, Morgan Rothschild, Sabdi Bravo, Alicia Simmons, Brook Busselman, Indra Chandrasekar and Kameswaran Surendran. Gordon Research Conference on Notch Signaling in Development, Regeneration and Disease, Bates College, ME. Short talk. Role: Presenter

The molecular regulators of kidney collecting duct

development and maintenance. Invited Speaker at monthly Nephrology Urology Research Affinity Group meeting, The Abigail Wexner Research Institute at Nationwide Children's Hospital. Columbus, OH. Virtual

Use of model systems to test findings from Whole Exome Sequencing. Kameswaran Surendran, NIDDK Workshop on New insights into Congenital Kidney Disease. Organized by NIDDK/NIH. Virtual

mTORC1 activity promotes an intercalated cell state which is suppressed by Hes1 to maintain principal cells in a mature state. Jennifer DeRiso, Malini Mukherjee, Madhusudhana R. Janga, Morgan J. Rothschild, Sabdi Bravo, Alicia L. Simmons, Brook W. Busselman, Indra Chandrasekar, Kameswaran Surendran... Poster presentation at ASN Kidney Week 2022 in Orlando, FL. Role: Mentor/Corresponding author

Maria Talavera-Barber, DO

Invited Speaker: 15th Annual Conference on Controversies in Neonatal and Perinatal Care. "The Nutritional Impact of Probiotics in Preterm Infants

Jianning Tao, PhD

Tao, J., Fang, F, Torres, H, Stage-restricted osteoblasts specify signatures of osteosarcoma molecular subtypes (Poster number 3557). 2023 American Association for Cancer Research (AACR) Annual Meeting poster presentation. April 14-19, 2023, Orlando, FL

(Mentor). Torres, H, Hinojosa L, VanCleave, A., Rodezno T, Mukherjee M, Tecleab Y, Westendorf J, Tao, J. Characterization of a Notch3-driven preclinical mouse model of Lateral Meningocele Syndrome. American Society for Bone and Mineral Research (ASBMR) Annual Meeting poster presentation, 2022 September 9-12, Austin, TX

(Mentor). Torres, H, Hinojosa L, VanCleave, A., Rodezno T, Mukherjee M, Tecleab Y, Westendorf J, Tao, J. Characterization of a Notch3-driven preclinical mouse model of Lateral Meningocele Syndrome. Gordon Research Conference of Notch Signaling in Development, Regeneration and Disease, July 17-22, 2022, Lewiston, ME

Regional Presentations

Michelle Baack, MD

Midwest Society for Pediatric Research (MSPR) Segar Family Lectureship and Pediatric Grand Rounds, Ann & Robert Lurie Children's Hospital, Chicago, IL. September 30, 2022. Changing the Future, One Exposome at a Time

MSPR Scientific Meeting, Chicago, IL. September 29, 2022. Differential Fatty Acid Uptake in Human Trophoblast Cells as Evidence for Mitochondria-mediated outcomes in Gestational Diabetes Mellitus.



K Siemers*, T Gandy, T Larsen, M Baack. Platform Presentation; *MSPR Student Award for the most outstanding abstract presentation at the MSPR 2022 Scientific Meeting and Travel Award

MSPR Scientific Meeting, Chicago, IL. September 29, 2022. Mitochondria-mediated Effects of a Maternal High Fat Diet on Preimplantation Rat Embryos. Abigail Klein*, Ross Lanier*, Tricia Larsen Tyler Gandy, Kyle Siemers. * Platform Presentation and Travel Awards

South Dakota Perinatal Association Meeting, Pierre, SD. September 26, 2022. Care of the Infant of a Diabetic Mother. Platform presentation/Invited speaker

Arielle Deutsch, PhD

Intergenerational complex trauma: From chromosomes to communities, through chaos and colonialism. Great Plains Area Behavior Health Conference (Virtual), September 21, 2022

Kevin Francis, PhD,

Yaeger JW, Sengupta S, Walz AL, Wolman J, Vermeer PD, Francis KR. Eastern SD Research Symposium, "Impaired cholesterol biosynthesis in Smith-Lemli-Opitz syndrome results in defective lipid trafficking", June 14th, 2023 Mentor

Sengupta S, Yaeger JW, Freel BA, Francis KR. Eastern SD Research Symposium, "Plasma membrane-associated sterols differentially regulate the function and localization", June 14th, 2023 Mentor

Yaeger JW, Sengupta S, Walz AL, Wolman J, Vermeer

PD, Francis KR. USD-SSOM Pediatric Research and Scholarship Day, "Cholesterol imbalance triggers lipid trafficking defects observed in Smith-Lemli-Opitz syndrome", April 13th, 2023 Mentor

Yaeger JW, Wall A, Vermeer P, Spanos WS, Francis KR. Dakota Community Collaborative on Translational Activity Annual Symposia, "Regulation of extracellular vesicles by cholesterol metabolism: implications for head and neck squamous cell carcinoma", Sioux Falls, SD, August 5th, 2022 Mentor

Raszler M, Yaeger J, Francis KR. South Dakota EPSCoR Undergraduate Research Symposium, "Characterization of lipid droplet accumulation due to cholesterol biosynthesis inhibition", July 29th, 2022 Mentor. Presentation 2

Kurt Griffin, MD

"The Sanford PLEDGE Study: Integrating Population Screening for T1D Risk into Routine Pediatric Care" Dakota Community Collaborative on Translational Activity (DaCCoTA) Symposium (virtual meeting), 27 July 2023

Christine Hockett, PhD

Speaker and Panelist, Maternal Health Innovations Panel, Community Healthcare Association of the Dakotas (CHAD) Conference, Fargo, ND, May 3-4, 2023

Speaker, Chronic disease prevention in American Indians across the lifecourse, Great Plains Tribal Leaders Health Board Good Health & Community Wellness Webinar Series, September 22nd 2022

Jody Huber, MD

"Pathophysiology of Pediatric Traumatic Brain Injury"
Sanford Trauma Symposium. October 2022

Practical Tips for Teaching Adult Learners; Kaye Wagner & Jody Huber; Department of Pediatrics Faculty Development Series; USD SSOM. September 2022

Michael Kareta, PhD

Investigating Tumor Evolution: An investigation into a rare lung cancer, Michael Kareta, Northern State University

Lance Lee, PhD

Casey McKenzie, Michael Kareta, and Lance Lee. Cellular Responses to Motile Cilia Dysfunction in the Airway Ciliary Microenvironment. 7th Annual Eastern South Dakota Research Symposium. June, 2023. Sioux Falls, SD. Poster. Role: mentor

Casey McKenzie, Michael Kareta, and Lance Lee. Cellular Responses to Motile Cilia Dysfunction in the Airway Ciliary Microenvironment. 13th Annual Great Plains Rare Disease Summit. May, 2023. Sioux Falls, SD. Data Blitz Oral Presentation. Role: mentor

Casey McKenzie, Michael Kareta, and Lance Lee. Cellular Responses to Motile Cilia Dysfunction in the Airway Ciliary Microenvironment. 13th Annual Great Plains Rare Disease Summit. May, 2023. Sioux Falls, SD. Poster. Role: mentor

Kameron Brooks, Casey McKenzie, Lance Lee. Analysis of protein trafficking in mammalian motile cilia using live imaging. SD EPSCoR Undergraduate Research Symposium. July, 2022. Brookings, SD. Poster. Role: mentor

Kathryn Rosa, Casey McKenzie, Michael Kareta, Lance Lee. Differentiation of Cell Types in the Airway Ciliary Microenvironment of PCD Mouse Models. SD EPSCoR Undergraduate Research Symposium. July, 2022. Brookings, SD. Poster. Role: mentor

Peter Paul Lim, MD

Avera Infection Control Meeting (Measles: an Impending Pandemic), Avera, Sioux Falls, SD

Sexually Transmitted Diseases panelist for USD Medical Students Forum

South Dakota Physician Assistant Conference (Parasites), Sioux Falls, SD

Vaccine Hesitancy panelist for USD Medical Students Forum

Lisa Lubbers, MSN, NNP

NICU outreach education (Presenter) at 1st annual AWHONN SD conference in Brookings, SD

Daniel Mark, MD

"Fundamental aspects of pediatric palliative care"
11/17/22 South Dakota Palliative Care Symposium

Stephen Messier, MD

SDPA: Mentor to Sam Hagman. Platform. Updates In Prenatal and Postnatal Hepatitis C Virus (HCV) Testing 1

Thayne Munce, PhD

Munce TA. The First Down Project: Brain Health Research in Youth Football, Center for Brain and Behavior Research (CBBRe) Research Symposium, University of South Dakota, Vermillion, SD

Munce TA. The First Down Project: Brain Health Research in Youth Football, Northland Chapter of the American College of Sports Medicine Annual Meeting, Sioux Falls, SD

Gokhan Olgun, MD

Non-Invasive Ventilation in the Pediatric Intensive Care Unit, 2023 T. Denny Sanford Pediatric Symposium in conjunction with Sanford Children's Pediatric Symposium, Okoboji, IA

Amy Scepaniak, MS

DSU Special Education Course lecture, Online, - DeafBlinness

NSU Special Education Course lecture, Aberdeen SD – DeafBlindness

SD Early Intervention conference, Mitchell SD-Serving Children with Dual Sensory Needs

SD Special Education Conference, Deadwood SD - Learn S'More about identifying sensory loss and the referral process

SD State Vocational Rehabilitation Services/DHS, Online training - Overview of DeafBlindness

Maria Talavera-Barber, DO

South Dakota Perinatal Association: Congenital Syphilis: Neonatal Case Series

South Dakota Perinatal Association: Nutritional Impact of Probiotics in Preterm Infants

Jianning Tao, PhD

Tao, J., Fang, F, Torres, H, Stage-restricted osteoblasts specify signatures of osteosarcoma molecular subtypes. The 7th Annual Eastern South Dakota Research Symposium, June 14, 2023, Sioux Falls, SD

Eric Towe, MD

Presenter - Lecture on Sudden Cardiac Death in Pediatrics - Transmed Seminar

Presenter - Lecture on Syncope - South Dakota Association of Physician Assistance Annual Meeting

Local Presentations

Kathryn Anderson, MD

A retrospective cohort study to evaluate swallow study use in the NICU population, Lauren Ochoa, MS4, Marlee Jones, MS4, Kathryn Anderson, MD, Baiba Steinbrekera, MD, South Dakota state medical association annual leadership conference, role-mentor

Joyti Angal, PhD

Angal J and Hickey R (2022). Small research program and your first clinical trial: Now What?! Public Responsibility in Research and Medicine Annual Conference (Virtual)

Angal J. (2022). Understanding the role of Spirituality and Medicine in Hinduism. Sanford School of Medicine

Michelle Baack, MD

Eastern South Dakota Research Symposium. June 14, 2023. Coenzyme Q10 mitigates maternal high fat diet-mediated oxidative stress on the preimplantation embryo. Abigail Klein*, Tricia Larsen, C. Tyler Gandy, Kyle Siemers, Michelle Baack, MD. *Poster presentation

Stem Cell Affinity Group. June 12, 2023. Mitochondria and Stem Cell Fate. Oral presentation

USD SSOM Department of Pediatrics Research and Scholarship Day. April 13, 2023. Coenzyme Q10 mitigates maternal high fat diet-mediated oxidative stress on the preimplantation embryo. Abigail Klein, Tricia Larsen, C. Tyler Gandy, Kyle Siemers, Michelle Baack, MD. * Poster presentation. Best Basic Research by a student award

USD SSOM Department of Pediatrics Research and Scholarship Day. April 13, 2023. Exposure to Gestational Diabetes Mellitus-like Fuel Environment Compromises Mitochondria Respiration in Human Trophoblasts. Kyle Siemers*, Tyler Gandy, Tricia Larsen, Prathapan Ayyappan, Michelle Baack. * Poster presentation

Pediatric Grand Rounds, Ann & Robert Lurie Children's Hospital, Chicago, IL. September 30, 2022. "Changing the Future, One Exposome at a Time"

Daniel Boadwine, MD

Pediatric Grand Rounds: Racism in Medicine, Sanford School of Medicine

Francisco Bustos, PhD

Dissecting signal transduction in ubiquitin-related neurodevelopmental disorders. Francisco Bustos. 13th Annual Great Plains Rare Disease Summit. Sioux Falls, SD. Friday, May 12th, 2023

Study of the molecular mechanism underlying the USP27X-driven developmental disorder XLID105. Intisar Koch and Francisco Bustos (mentor). Pediatrics Research

& Scholarship Day 2023. SSOM, USD. Sioux Falls, SD

Indra Chandrasekar, PhD

Eastern South Dakota Symposium, June, 2023. Nonmuscle myosin II proteins, Myh9 and Myh10, interact with unconventional myosin Myo18A in immortalized mouse thick ascending limb epithelial cells. Jenna L. Zimmerman, Brook W. Busselman, Karla L. Otterpohl, and Indra Chandrasekar. Poster Presentation

Adam Dell, MD

Obesity in Adolescents, Adam Dell MD, Oyate Health Grand Rounds, Rapid City, SD 57702

Donald Ellis, MD

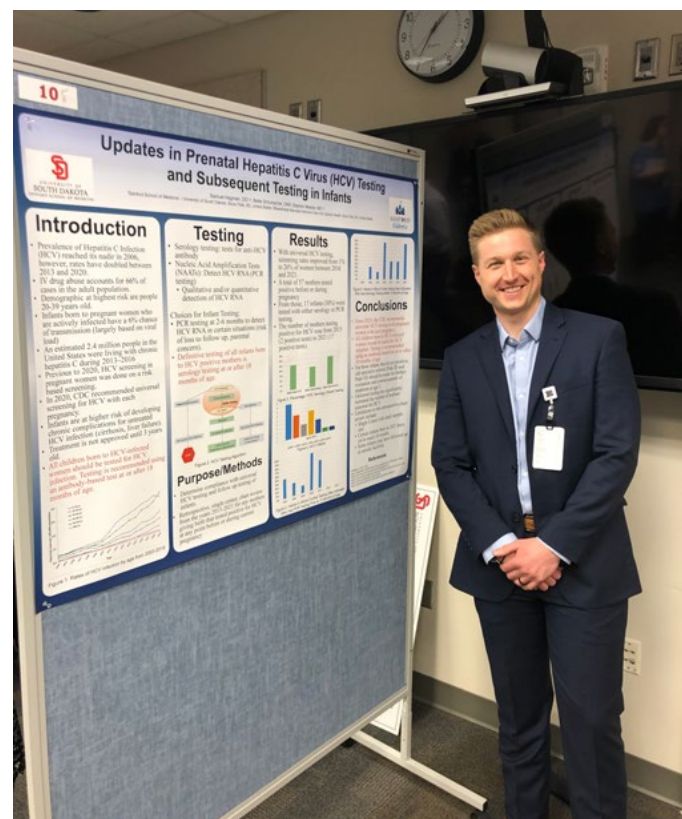
"Evidence-based Medicine Approach to Pediatric Seizures" by Donald Ellis at the 2023 Sanford EMS Conference in Sioux Falls, SD

Jacquelyn Grev, MD

Influence of respiratory management and fluid status during the first week of life on bronchopulmonary dysplasia in preterm infants. Shehbeet Mangat 1, Jacquelyn Grev1,2, Laurie Hogden1,2, Baiba Steinbrekera1,2. 1University of South Dakota - Sanford School of Medicine; 2023 Pediatric Research and Scholarship Day, Thursday, April 13 at the USD SSOM Health Science Center in Sioux Falls, SD; Mentor

Samuel Hagman, DO

Hagman S., Schumacher B., Messier S. "Updates in Prenatal Hepatitis C Virus (HCV) Testing and Subsequent Testing in Infants". Poster Presentation. University of South Dakota. Pediatric Research Day. April 2023



Christine Hockett, PhD

Speaker, Consequences of exposure to maternal diabetes on puberty and adiposity, Pediatric Grand Rounds, Department of Pediatrics, University of South Dakota School of Medicine, October 13th 2022

Specker, Impact of the COVID-19 pandemic on children's health behaviors: the PASS-ECHO study, Annual South Dakota Perinatal Conference, South Dakota Perinatal Association, Pierre, SD, Sept 26th 2022

Michael Kareta, PhD

Genetic Lineage Tracing in Tumor Development and other anecdotes about a scientific journey, Sanford Promise Laboratory

Lance Lee, PhD

Casey McKenzie, Michael Kareta, and Lance Lee. Cellular Responses to Motile Cilia Dysfunction in the Airway Ciliary Microenvironment. 2023 SSOM Department of Pediatrics Research and Scholarship Day. April, 2023. Sioux Falls, SD. Poster. Role: mentor

Casey McKenzie, Yohannes Tecleab, Michael Kareta, and Lance Lee. Elucidating Cellular Response to Motile Cilia Dysfunction in the Airway Ciliary Microenvironment. 2022 Center for Pediatric Research Annual Symposium. October, 2022. Sioux Falls, SD. Poster. Role: mentor

Kameron Brooks, Casey McKenzie, Lance Lee. Analysis of protein trafficking in mammalian motile cilia using live imaging. 2022 Sanford Research Summer Symposium. August, 2022. Sioux Falls, SD. Poster. Role: mentor

Kathryn Rosa, Casey McKenzie, Michael Kareta, Lance Lee. Differentiation of Cell Types in the Airway Ciliary Microenvironment of PCD Mouse Models. 2022 Sanford Research Summer Symposium. August, 2022. Sioux Falls, SD. Poster. Role: mentor

Shehbeet Mangat, MD

Mangat S.K., Grev J., Hogden L., Steinbrekera B. "Influence of respiratory management and fluid status during the first week of life on bronchopulmonary dysplasia in preterm infants". Poster Presentation. University of South Dakota. Pediatrics Research Day. April 2023

Stephen Messier, MD

USD Research and Scholarship day. Poster. Mentor to Sam Hagman. Updates in Prenatal Hepatitis C Virus (HCV) Testing and Subsequent Testing in Infants

Pradeeksha Mukuntharaj, MD

Bender, T., Mukuntharaj, P, Reuter S. "A Severe Case of a Common Virus: Congenital Cytomegalovirus (CMV) in a Neonate." Poster Presentation. University of South Dakota. Pediatric Research Day. April 2023

Thayne Munce, PhD

Munce TA. Sport-Related Concussion: Scientific Advancements in Clinical Management, Sanford Pediatric Trauma Symposium, Sioux Falls, SD

David Pearce, PhD

Sanford/PPALS PACT Conference, May 2023. "Introduction to Sanford Research"

Louis-Jan Pilaz, PhD

"Analysis of the subcellular localization of the periventricular nodular heterotopia-associated protein MAP1B" American Physician Scientist Association Midwest Regional Meeting, 2022, Mentor

"Investigating the role of MAP1B in the neuronal migration disorder periventricular nodular heterotopia" Society for Neuroscience Annual Meeting, 2022, Mentor

"Investigating the role of MAP1B in the neuronal migration disorder periventricular nodular heterotopia" Pediatric Research Summit, 2022, Mentor

"Mitochondrial regulation and neural autophagy in WDR45 associated neurodegenerative disease" Pediatrics COBRE Symposium, 2022, Presenter

"Modeling periventricular nodular heterotopia-associated patient variants using Breasi-CRISPR" USD MD-PhD Student Retreat, 2022, Mentor

Mount Marty University Seminar Series

Laurie Richards, MD

5/2023: USD/Sanford School of Medicine Pediatric Research and Scholarship Day • Co-authored Poster: Influence of respiratory management and fluid status during the first week of life on bronchopulmonary dysplasia in preterm infants

3/23/2023: Sanford Health Perinatal, Neonatal and Women's Health Conference • Invited speaker – "ROP"

Baiba Steinbrekera, MD

Influence of respiratory management and fluid status during the first week of life on bronchopulmonary dysplasia in preterm infants. Presented at USD Pediatric Research Day 2023

Dennis C. Stevens, MD, MS

Presenter for Annual Medical Student Research Fair, Feb. 2023

Jianning Tao, PhD

Torres, H, Hinojosa L, VanCleave, A., Rodezno T, Mukherjee M, Tecleab Y, Westendorf J, Tao, J. Characterization of a Notch3-driven preclinical mouse model of Lateral Meningocele Syndrome. 2022 USD Pediatric Research and Scholarship Day, April 14, 2023, Sioux Falls, SD

Tao, J., Fang, F, Torres, H, Stage-restricted osteoblasts specify signatures of osteosarcoma molecular subtypes. 2022 USD Pediatric Research and Scholarship Day, April 14, 2023, Sioux Falls, SD

(Mentor). Hinojosa L, Smithback A, Torres H, Tao J. Targeting p-21 activated kinases in a novel murine model of rhabdomyosarcoma. Center for Pediatric Research Annual Symposium, October 25, 2022, Sioux Falls, SD

(Mentor). Guerrero C, Torres H, Hinojosa L, Tao J. Epigenetic Regulation of Bone Marrow Stem cells in a Preclinical Model of Lateral Meningocele Syndrome. 2022 Sanford Undergraduate Summer Research Symposium, August 12, 2022, Sioux Falls, SD

(Mentor). Smithback A, Torres H, Hinojosa L, Tao J. Targeting p-21 activated kinases in a novel murine model of rhabdomyosarcoma. 2022 Sanford Undergraduate Summer Research Symposium, August 12, 2022, Sioux Falls, SD

Other Presentations

Invited External Grand Rounds Presentations

Michelle Baack, MD

Pediatric Grand Rounds, Ann & Robert Lurie Children's Hospital, Chicago, IL. September 30, 2022. "Changing the Future, One Exposome at a Time"

Francisco Bustos, PhD

Corothers Life Science Seminar, Department of Biology and Microbiology, South Dakota State University. Sep. 23rd, 2022. "Dissecting RNF12 E3 Ubiquitin Ligase Signal Transduction that is Disrupted in Intellectual Disability

Kevin Francis, PhD

Francis KR, Augustana University, Department of Chemistry and Biochemistry, "Sterol biochemistry as a determinant of membrane function and mammalian signaling", March 29th, 2023

Jennifer Hagggar, MD

North Dakota grand rounds: Development are we on track

Benson Hsu, MD

UND School of Medicine Pediatrics Grand Rounds: Journey to Health Equity

Staten Island University Hospital Pediatric Grand Rounds: Pediatric Patient Safety

Bianca Johnson, MD

Understanding POTS

Lance Lee, PhD

Riding the Cilia Wave: Understanding the Mechanisms of Motile Cilia Function and Ciliary Disease. Invited seminar, November 2022. Augustana University, Sioux Falls, SD

Riding the Cilia Wave: Understanding the Mechanisms of Motile Cilia Function and Ciliary Disease. Invited seminar, October 2022. South Dakota State University, Brookings, SD

The Biology of Cilia in Pediatric Disease. Invited seminar, September 2022. University of Sioux Falls, Sioux Falls, SD

Daniel Mark, MD

"Empathy, Communication, and Resilience" 4/16/23 Surgery Grand Rounds



Thayne Munce, PhD

Full Circle: My Path in Exercise Science, Introduction to Exercise Science course (Fall Semester, 2022), University of Sioux Falls, Sioux Falls, SD

Full Circle: My Path in Exercise Science, Introduction to Exercise Science course (Spring Semester, 2023), University of Sioux Falls, Sioux Falls, SD

Career Development Presentations**Michelle Baack, MD**

MSPR Trainee and Early Career Counseling Breakfast

Benson Hsu, MD

AAP NCE 2022: Interview hints and negotiating your first contract

Princeton University Project '55: Beyond your fellowship

Jody Huber, MD

"Practical Tips for Teaching Adult Learners" University of South Dakota Department of Pediatrics Faculty Development Series. September 2022

Lance Lee, PhD

"Building Researcher Identity". Sanford Research, Sioux Falls, SD

Mentor training. Sanford Research, Sioux Falls, SD

"Networking: Why It's Important, and How to Do It." Sanford Research, Sioux Falls, SD

"Preparing an Effective Oral Presentation". Sanford Research, Sioux Falls, SD

"Science Careers and Career Preparation." SDSU, Brookings, SD. Biology Graduate Student Organization. SDSU, Brookings, SD

Rebecca Lustfield, PhD

Faculty Development Workshop HSC

Faculty Development Workshop Yankton

Ethics Seminar Presentations**Kurt Griffin, MD**

"Plagiarism" Sanford Research Responsible Conduct of Research Series, 13 July 2022 and 12 July 2023

Michael Kareta, PhD

Data and Data Sharing

Attila Kovacs, PhD

Ethics on Animal Research, April 12, 2023; co-presenter

Lance Lee, PhD

"Engaging with the Community". Sanford Research, Sioux Falls, SD

Daniel Mark, MD

Clinical Ethics in Pediatrics" 5/3/23 Ethics In Action Conf

Thayne Munce, PhD

Human Subjects Research, Responsible Conduct of Research Series, Sanford Research, Sioux Falls, SD

Kyle Roux, PhD

Multiple Scientific Misconduct presentations

Kameswaran Surendran, PhD

Presented and co-led discussion on Ethics: Scientific Misconduct and Plagiarism as part of Summer Student Career Development Workshop

Jianning Tao, PhD

Tao, J. & De La Peunte, P. Ethics: Peer review. Sanford Research ethics seminar series. Sioux Falls, SD, September 14, 2022

QI Project Presentations**Rochelle Boote, MD**

Improving lipid panel screenings for 11-12 year olds

Jacquelyn Grev, MD

BPD QI Project, NICU, Sioux Falls, SD

Hyperbilirubinemia QI, Mentor to Pradeeksha Mukuntharaj

VAP QI Project, NICU, Sioux Falls, SD

Peter Holmberg, MD

Improving Inpatient Vaccinations in Children. Sanford Children's Hospital

Lauritz Meyer, MD

Ventilator Associate Pneumonia Prevention, Sanford Children's NICU

Amanda O'Neil, RN, MSN, CNP

Increased knowledge of postpartum depression in the NICU

Reduction of BPD in the NICU

Suzanne Reuter, MD

Intranasal Versed Use in the NICU - will be presented at the Sanford QI Symposium in November 2023

Laurie Richards, MD

Implementation of Less Invasive Surfactant Administration (LISA), Sanford Boekelheide NIC QIC (Neonatal Intensive Care Quality Improvement Council)

Baiba Steinbrekera, MD
BPD prevention QI

Maria Talavera-Barber, DO
Necrotizing Enterocolitis QI Collaborative

NICU Nutrition Working Group

Small Baby Hemodynamics Working Group

Workshop Presentations

Benson Hsu, MD
Alexion: Health Equity in Rare Diseases

JP Morgan Health: Re-imaging Healthcare

DenYelle Kenyon, PhD
(2023, April). Crafting your personal statement. Great Lakes Pre-admissions workshop, Grand Forks, ND

Other Presentations

Benson Hsu, MD
AMA Adapting to Patients' Needs One ICU Pediatrician's Account (podcast) <https://edhub.ama-assn.org/cdc-project-firstline/audio-player/18709246>

Michael Kareta, PhD
Giving An Effective Science Presentation, Sanford SPUR Program

Stephen Messier, MD
Neonatal CoVID Follow-up research project

Michael Naegle, MD
Interviewed by Keloland. "Influenza activity in the Sioux Falls community." December 2022

Dennis Stevens, MD, MS
Presentation on Academic Scholarship. Graduate Medical Education Retreat, Rosalind Franklin University of Health Sciences, North Chicago, IL, Sept. 30, 2022

Presentation of two lectures on Basic Biostatistics for Internal Medicine Residents at Chicago Medical Center at the Federal Health Care Center, North Chicago, IL

Maria Talavera-Barber, DO
Small Baby Hemodynamic Guideline: Hypotension

Small Baby Hemodynamic Guideline: Pharmacological Management of PDA

Small Baby Nutrition Guidelines

Publications

PubMed Articles

Kathryn Anderson, MD
Ochoa L, Jones M, Anderson K, Steinbrekera B. A Retrospective Cohort Study to Evaluate a Swallow Study Use in the NICU Population to Optimize Feeding Support. *S D Med.* 2023 Jun;76(suppl 6):s22. PMID: 37732923

Bishop BM, Anderson KM. Cryptorchidism Review for the Primary Care Provider. *S D Med.* 2023 May;76(5):222-228. PMID: 37603872

Jyoti Angal, PhD
Hofheimer JA, McGrath M, Musci R, Wu G, Polk S, Blackwell CK, Stroustrup A, Annett RD, Aschner J, Carter BS, Check J, Conradt E, Croen LA, Dunlop AL, Elliott AJ, Law A, Leve LD, Neiderhiser JM, O'Shea TM, Salisbury AL, Sathyanarayana S, Singh R, Smith LM, Aguiar A, Angal J, Carliner H, McEvoy C, Ondersma SJ, Lester B; Program Collaborators for Environmental influences on Child Health Outcomes. Assessment of Psychosocial and Neonatal Risk Factors for Trajectories of Behavioral Dysregulation Among Young Children From 18 to 72 Months of Age. *JAMA Netw Open.* 2023 Apr 3;6(4):e2310059. doi: 10.1001/jamanetworkopen.2023.10059. PMID: 37099294; PMCID: PMC10134008

Sania A, Myers MM, Pini N, Lucchini M, Nugent JD, Shuffrey LC, Rao S, Barbosa J, Angal J, Elliott AJ, Odendaal HJ, Fifer WP; PASS Network. Prenatal smoking and drinking are associated with altered newborn autonomic functions. *Pediatr Res.* 2023 Jan;93(1):242-252. doi: 10.1038/s41390-022-02060-5. Epub 2022 Apr 19. PMID: 35440768; PMCID: PMC9579213

Prathapan Ayyappan, PhD
Ayyappan P, Larsen TD, Gandy TCT, Louwagie EJ, Baack ML. Impact of Prenatal Exposure to Maternal Diabetes and High-Fat Diet on Postnatal Myocardial Ketone Body Metabolism in Rats. *Int J Mol Sci.* 2023 Feb 12;24(4):3684. doi: 10.3390/ijms24043684. PMID: 36835096; PMCID: PMC9967912

Michelle Baack, MD
Jensen EA, Wiener LE, Rysavy MA, Dysart KC, Gantz MG, Eichenwald EC, Greenberg RG, Harmon HM, Laughon MM, Watterberg KL, Walsh MC, Yoder BA, Lorch SA, DeMauro SB; Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Assessment of Corticosteroid Therapy and Death or Disability According to Pretreatment Risk of Death or Bronchopulmonary Dysplasia in Extremely Preterm Infants. *JAMA Netw Open.* 2023 May 1;6(5):e2312277. doi: 10.1001/jamanetworkopen.2023.12277. PMID: 37155165; PMCID: PMC10167571

Brumbaugh JE, Vohr BR, Bell EF, Bann CM, Travers CP, McGowan EC, Harmon HM, Carlo WA, Duncan AF, Hintz SR; Eunice Kennedy Shriver NICHD Neonatal Research Network. Early-Life Outcomes in Relation to Social Determinants of Health for Children Born Extremely Preterm. *J Pediatr.* 2023 Aug;259:113443. doi: 10.1016/j.jpeds.2023.113443. Epub 2023 Apr 25. PMID: 37105408; PMCID: PMC10468025

Sewell EK, Shankaran S, Natarajan G, Lupton A, Das A, McDonald SA, Hamrick S, Baack M, Rysavy M, Higgins RD, Chalak L, Patel RM. Evaluation of heterogeneity in effect of therapeutic hypothermia by sex among infants with neonatal encephalopathy. *Pediatr Res.* 2023 Apr 3. doi: 10.1038/s41390-023-02586-2. Epub ahead of print. PMID: 37012412

Siemers KM, Baack ML. The importance of placental lipid metabolism across gestation in obese and non-obese pregnancies. *Clin Sci (Lond).* 2023 Jan 13;137(1):31-34. doi: 10.1042/CS20220657. PMID: 36594368; PMCID: PMC9810527

Laura Davis-Keppen, MD

Rots D, Jakub TE, Keung C, Jackson A, Banka S, Pfundt R, de Vries BBA, van Jaarsveld RH, Hopman SMJ, van Binsbergen E, Valenzuela I, Hempel M, Bierhals T, Kortüm F, Lecoquierre F, Goldenberg A, Hertz JM, Andersen CB, Kibæk M, Prijoles EJ, Stevenson RE, Everman DB, Patterson WG, Meng L, Gijavanekar C, De Dios K, Lakhani S, Levy T, Wagner M, Wiczorek D, Benke PJ, Lopez Garcia MS, Perrier R, Sousa SB, Almeida PM, Simões MJ, Isidor B, Deb W, Schmanski AA, Abdul-Rahman O, Philippe C, Bruel AL, Faivre L, Vitobello A, Thauvin C,

Smits JJ, Garavelli L, Caraffi SG, Peluso F, Davis-Keppen L, Platt D, Royer E, Leeuwen L, Sinnema M, Stegmann APA, Stumpel CTRM, Tiller GE, Bosch DGM, Potgieter ST, Joss S, Splitt M, Holden S, Prapa M, Foulds N, Douzgou S, Puura K, Waltes R, Chiocchetti AG, Freitag CM, Satterstrom FK, De Rubeis S, Buxbaum J, Gelb BD, Branko A, Kushima I, Howe J, Scherer SW, Arado A, Baldo C, Patat O, Bénédicte D, Loperolo D, Santorelli FM, Haack TB, Dufke A, Bertrand M, Falb RJ, Rieß A, Krieg P, Spranger S, Bedeschi MF, Iacone M, Josephi-Taylor S, Roscioli T, Buckley MF, Liebelt J, Dagli AI, Aten E, Hurst ACE, Hicks A, Suri M, Aliu E, Naik S, Sidlow R, Coursimault J, Nicolas G, Küpper H, Petit F, Ibrahim V, Top D, Di Cara F; Genomics England Research Consortium; Louie RJ, Stolerman E, Brunner HG, Vissers LELM, Kramer JM, Kleefstra T. The clinical and molecular spectrum of the KDM6B-related neurodevelopmental disorder. *Am J Hum Genet.* 2023 Jun 1;110(6):963-978. doi: 10.1016/j.ajhg.2023.04.008. Epub 2023 May 16. PMID: 37196654; PMCID: PMC10257005

Arielle Deutsch, PhD

Shuffrey LC, Morales S, Jacobson MH, Bosquet Enlow M, Ghassabian A, Margolis AE, Lucchini M, Carroll KN, Crum RM, Dabelea D, Deutsch A, Fifer WP, Goldson B, Hockett CW, Mason WA, Jacobson LT, O'Connor TG, Pini N, Rayport Y, Sania A, Trasande L, Wright RJ, Lee S, Monk C; program collaborators for Environmental influences on Child Health Outcomes. Association of Gestational Diabetes Mellitus and Perinatal Maternal Depression with Early Childhood Behavioral Problems: An Environmental Influences on Child Health Outcomes (ECHO) Study. *Child Dev.* 2023 May 2. doi: 10.1111/cdev.13938. Epub ahead of print. PMID: 37132048



McKee KS, Tang X, Tung I, Wu G, Alshawabkeh AN, Arizaga JA, Bastain TM, Brennan PA, Breton CV, Camargo CA Jr, Cioffi CC, Cordero JF, Dabelea D, Deutsch AR, Duarte CS, Dunlop AL, Elliott AJ, Ferrara A, Karagas MR, Lester B, McEvoy CT, Meeker J, Neiderhiser JM, Herbstman J, Trasande L, O'Connor TG, Hipwell AE, Comstock SS; program collaborators for Environmental influences on Child Health Outcomes. Perinatal Outcomes during versus Prior to the COVID-19 Pandemic and the Role of Maternal Depression and Perceived Stress: A Report from the ECHO Program. *Am J Perinatol*. 2023 Mar 23. doi: 10.1055/a-2033-5610. Epub ahead of print. PMID: 36781160

Amy Elliott, PhD

Bekelman TA, Trasande L, Law A, Blackwell CK, Jacobson LP, Bastain TM, Breton CV, Elliott AJ, Ferrara A, Karagas MR, Aschner JL, Bornkamp N, Camargo CA Jr, Comstock SS, Dunlop AL, Ganiban JM, Gern JE, Karr CJ, Kelly RS, Lyall K, O'Shea TM, Schweitzer JB, LeWinn KZ. Opportunities for understanding the COVID-19 pandemic and child health in the United States: the Environmental influences on Child Health Outcomes (ECHO) program. *Front Pediatr*. 2023 Jun 15;11:1171214. doi: 10.3389/fped.2023.1171214. PMID: 37397146; PMCID: PMC10308998

Angal J, Brockevlt B, Caraway SJ, Kenyon DB, Ziegler K, Elliott AJ. Return of Individual Research Results: Participant Perspectives in a Longitudinal Community-Based Sample. *J Empir Res Hum Res Ethics*. 2023 Jul;18(3):109-117. doi: 10.1177/15562646231173745. Epub 2023 May 16. PMID: 37192743; PMCID: PMC10468824

Maylott SE, Conradt E, McGrath M, Knapp EA, Li X, Musci R, Aschner J, Avalos LA, Croen LA, Deoni S, Derefinko K, Elliott A, Hofheimer JA, Leve LD, Madan JC, Mansolf M, Murrison LB, Neiderhiser JM, Ozonoff S, Posner J, Salisbury A, Sathyanarayana S, Schweitzer JB, Seashore C, Stabler ME, Young LW, Ondersma SJ, Lester B; program collaborators for Environmental influences on Child Health Outcomes (ECHO). Latent Class Analysis of Prenatal Substance Exposure and Child Behavioral Outcomes. *J Pediatr*. 2023 May 13;260:113468. doi: 10.1016/j.jpeds.2023.113468. Epub ahead of print. PMID: 37182662

McSweeney M, Morales S, Valadez EA, Buzzell GA, Yoder L, Fifer WP, Pini N, Shuffrey LC, Elliott AJ, Isler JR, Fox NA. Age-related trends in aperiodic EEG activity and alpha oscillations during early- to middle-childhood. *Neuroimage*. 2023 Apr 1;269:119925. doi: 10.1016/j.neuroimage.2023.119925. Epub 2023 Feb 3. PMID: 36739102

Nguyen RHN, Knapp EA, Li X, Camargo CA, Conradt E, Cowell W, Derefinko KJ, Elliott AJ, Friedman AM, Khurana Hershey GK, Hofheimer JA, Lester BM, McEvoy CT, Neiderhiser JM, Oken E, Ondersma SJ, Sathyanarayana S, Stabler ME, Stroustrup A, Tung I,

McGrath M. Characteristics of Individuals in the United States Who Used Opioids During Pregnancy. *J Womens Health (Larchmt)*. 2023 Feb;32(2):161-170. doi: 10.1089/jwh.2022.0118. Epub 2022 Nov 9. PMID: 36350685; PMCID: PMC9940795

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Jessica White, MD

Young LW, Ounpraseuth ST, Merhar SL, Hu Z, Simon AE, Bremer AA, Lee JY, Das A, Crawford MM, Greenberg RG, Smith PB, Poindexter BB, Higgins RD, Walsh MC, Rice W, Paul DA, Maxwell JR, Telang S, Fung CM, Wright T, Reynolds AM, Hahn DW, Ross J, McAllister JM, Crowley M, Shaikh SK, Puopolo KM, Christ L, Brown J, Riccio J, Wong Ramsey K, Akshatha, Braswell EF, Tucker L, McAlmon KR, Dummula K, Weiner J, White JR, Howell MP, Newman S, Snowden JN, Devlin LA; ACT NOW Collaborative. Eat, Sleep, Console Approach or Usual Care for Neonatal Opioid Withdrawal. *N Engl J Med*. 2023 Jun 22;388(25):2326-2337. doi: 10.1056/NEJMoa2214470. Epub 2023 Apr 30. PMID: 37125831; PMCID: PMC10433732

Joseph Zenel, MD

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Zenel JA. 500 Issues of *Pediatrics* in Review: A Brief History. *Pediatr Rev*. 2023 Feb 1;44(2):55-57. doi: 10.1542/pir.442commentary. PMID: 36720684

Other Publications

Baiba Steinbrekera, MD

Metabolic Bone Disease of Prematurity practice guidelines

Francisco Bustos, PhD

Specific genomic targeting of the RNF12/RLIM E3 ubiquitin ligase selectively programmes developmental transcription Carmen Espejo-Serrano, Catriona Aitken, Beatrice F. Tan, Danielle G. May, Rachel J. Chrisopoulos, Kyle J. Roux, Samuel G. Mackintosh, Joost Gribnau, Francisco Bustos, Cristina Gontan, Greg M. Findlay *bioRxiv* 2023.06.14.544957; doi: <https://doi.org/10.1101/2023.06.14.544957>

Cell autonomous requirement of imprinted XCI in extra-embryonic polar trophoblast cells Feng Wang, Ashmita Chander, Yeonsoo Yoon, Mary C. Wallingford, Carmen Espejo-Serrano, Francisco Bustos, Greg M. Findlay, Jesse

Mager, Ingolf Bach *bioRxiv* 2022.11.10.515976; doi: <https://doi.org/10.1101/2022.11.10.515976>

Adam Dell, MD

Providing Affirming Care to Transgender and Gender-Diverse Youth, *Springer Briefs*, Dell et Al, <https://link.springer.com/book/10.1007/978-3-031-18455-0>

Arielle Deutsch, PhD

Grounding alcohol simulation models in empirical and theoretical alcohol research: a model for a Northern Plains population in the United States, Deutsch A. R., Chau, C, Motabar, N, & Jalali, M.S. (*System Dynamics Review*)

Leah Heidenreich, MD

Management of Neonatal Hydronephrosis, Leah Heidenreich, Elizabeth Ristagno, Christian Hanna, *AskMayoExpert*

Benson Hsu, MD

Axelsen K, Hsu BS. US E-Cigarette Policy is Not Harm Reduction, it is Harm Transfer. *American Enterprise Institute AEIdeas*. July 11, 2022. <https://www.aei.org/health-care/us-e-cigarette-policy-is-not-harm-reduction-it-is-harm-transfer/>

Peter Paul Lim, MD

Lim, C. J. C., Lim, P. P. C., Pizarro, R. R. M., Segocio, H. G. B., & Ratta, K. (2023). Nutrigenomics in the management and prevention of cancer. In *Role of Nutrigenomics in Modern-day Healthcare and Drug Discovery* (pp. 177-208). Elsevier

Lim, P. P., Desai, A. P., Wessell, K. R., Moore, L., & Minich, N. M. (2022, December). 559. Inpatient Allergy Delabeling of Pediatric Patients with Low-Risk Penicillin Allergy Status through Direct Graded Oral Amoxicillin Challenge. In *Open Forum Infectious Diseases* (Vol. 9, No. Supplement_2, pp. ofac492-612). US: Oxford University Press

Ackerman A, Lim P, Desai A. A case of Lemierre syndrome presenting as Multisystem inflammatory syndrome in Children (*Pediatrics in Review Index of Suspicion*)

Desai A, Lim P, Ogundare M, Gonzalez B, Baley J. Viral Infections in the Neonates. *Faranoff and Martin's Neonatal Perinatal Medicine: Diseases of the Fetus and Infant* Hosahalli Vassana S, Lim P, Ahuja S. Wheezing and hypereosinophilia in a 3-year-old (*Pediatrics in Review Index of Suspicion*)

Hosahalli Vassana S, Lim P, Ahuja S. Wheezing and hypereosinophilia in a 3-year-old Status: Accepted (*Pediatrics in Review Index of Suspicion*)

Lim P, Moore L, Minich N, Ruda Wessell K, Desai A. Inpatient Delabeling of Pediatric Patients with Low-Risk Penicillin Allergy Status Through Allergy Direct Oral

Amoxicillin Challenge (Asthma and Allergy Proceedings)

Lim P, Moushami R, Parmar I. The human microbiome as drug targets. Human Microbiome Drug Targets: Modern Approaches in Disease Management

Lim P, Muthaligiri S, Allan V, Pathak A. The GUT microbiome. Human Microbiome Drug Targets: Modern Approaches in Disease Management

Lim P, Zawacki A, Prasad A. A case of severe congenital toxoplasmosis in a neonate who presented with hypothermia. (Contemporary Pediatrics)

Lisa Lubbers, MSN, NNP

A series of NICU outreach education sessions distributed to leaders at community sites Avera transports from

Lacey McCormack, PhD

DOI: 10.14485/HBPR.9.5.5, Eating Behaviors and Body Image Perception among College Students, Health Behavior and Policy Review

Stephen Messier, MD

Sanford Enterprise CPG: HIV CARE FOR INFANTS BORN TO MOTHERS WITH HIV

Sanford Enterprise CPG: Neonatal Hyperbilirubinemia Guidelines for >35 Weeks Gestation Infants

Louis-Jan Pilaz, PhD

NeuroWoodworks - Science-related art on Twitter, Facebook and Instagram

Book Chapters

Michelle Baack, MD

Mitochondrial Transplantation and Transfer: Biology, Methods, Applications, and Disease book chapter (Chapter 22: Diabetes and Mitochondrial Transplantation)

Adam Dell, MD

Dell, AW; Eyberg S (2022). Sexuality and Gender Identity. In Rudolph's Pediatrics, Self-Assessment and Board Review (23rd). New York, NY: McGraw Hill

Dell, AW; Eyberg S (2022). Somatic Growth and Development. In Rudolph's Pediatrics, Self-Assessment and Board Review (23rd). New York, NY: McGraw Hill

Samuel Schimelpfenig, MD

The Youth Athlete, edited by Brian Krabak and Alison Brooks, Elsevier 2023. Chapter 21: Environmental Injury – Cold

The Youth Athlete, edited by Brian Krabak and Alison Brooks, Elsevier 2023. Chapter 22: Environmental Injury – Heat

Educational Materials

Kurt Griffin, MD, PhD

Patient Educational Materials for PLEDGE Study

Jennifer Haggar, MD

Serve on patient education panel generating and reviewing patient materials for the EMR

Benson Hsu, MD, MBA

Hsu BS, Hoops K, Mack E. AAP SOCC Advocacy Modules. Fall/Winter 2022. (Online Advocacy Videos)

Peter Paul Lim, MD

Lim P. Lessons through COVID-19 adversity. Status: Published in Section on International Medical Graduates American Academy of Pediatrics Newsletter, Spring ed 2022

Lisa Lubbers, MSN, NNP

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Sanford Enterprise CPG: HIV CARE FOR INFANTS BORN TO MOTHERS WITH HIV

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Louis-Jan Pilaz, PhD

NeuroWoodworks - Science-related art on Twitter, Facebook and Instagram

Baiba Steinbrekera, MD

Metabolic Bone Disease of Prematurity practice guidelines

Maria Talavera-Barber, DO

Small Baby Hemodynamic Guideline: Hypotension

Small Baby Hemodynamic Guideline: Pharmacological Management of PDA

Small Baby Nutrition Guidelines

Joseph Zenel, MD

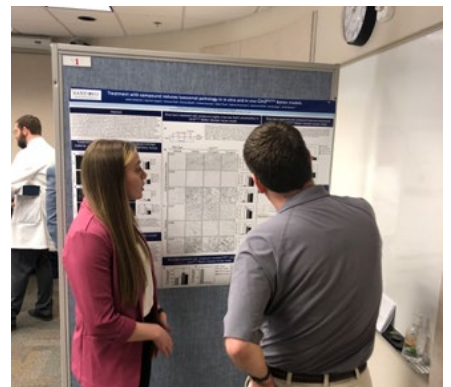
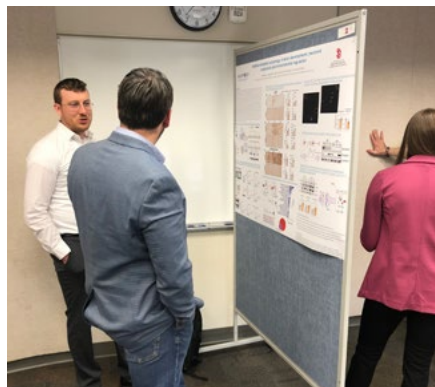
Pediatrics in Review Blog, "A Question I Should Have Asked USMLE Step 2, Step 3 Examination Questions

Research & Scholarship Day

The Department of Pediatrics held the annual Research & Scholarship Day on April 13, 2023, at the USD Sanford School of Medicine. Medical students, residents, and faculty gathered to celebrate each other scholarly accomplishments. Dr. Jerry Vockely, 2023 T. Denny Sanford Distinguished Lecturer, provided a noon education session on the Advances in Rare Disease Diagnosis and Treatment: Learning from your patients. The event was made possible by the generosity of T. Denny Sanford.

Jerry Vockley, MD, PhD

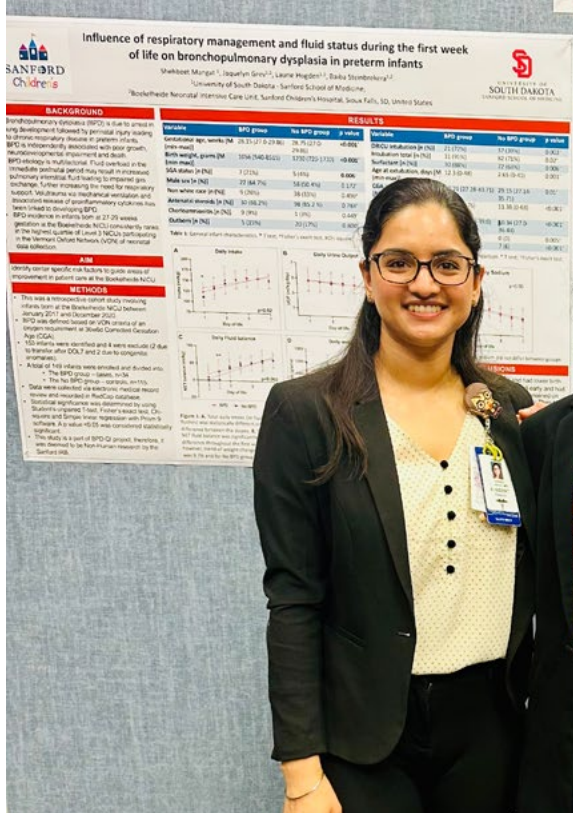
The 2023 T. Denny Sanford Distinguished Lecturer is Dr. Jerry Vockley, Professor of Pediatrics at the Children's Hospital of Pittsburgh and Professor of Human Genetics at the Pitt Graduate School of Public Health. Dr. Vockley received his medical degree from the University of Pennsylvania School of Medicine then completed his Pediatric Residency at the Denver Children's Hospital and a fellowship in Pediatrics and Human Genetics at Yale University School of Medicine. He then joined the faculty of the Mayo Clinic School of Medicine, where he established an inborn Errors of Metabolism Clinic. Dr. Vockley directs an active research program on inherited disorders of energy and protein metabolism, focused on both understanding the genetic causes of these disorders and developing new treatments for them.



Abstracts

Basic Science	
A multimodal biomarker disease score detects early changes and comprehensively tracks disease state in a mouse model of Cln8 disease	Kelsey Schecher, Kimmo K. Lehtimäki, Jon J. Brudvig, Tyler B. Johnson, Timo Bragge, Jussi Rytkönen, Artem Shatillo, Marc Cerrada-Gimenez, Giedrius Kalesnykas, Antti Nurmi, Jill M. Weimer
Cellular responses to motile cilia dysfunction in the airway ciliary microenvironment	Casey McKenzie, Michael Kareta, and Lance Lee
Characterization of a Notch3-driven preclinical mouse model of Lateral Meningocele Syndrome	Haydee M. Torres, Leetoria Hinojosa, Ashley VanCleave, Tania Rodezno, Malini Mukherjee, Yohannes Tecleab, Jennifer Westendorf, Jianning Tao
Cholesterol imbalance triggers lipid trafficking defects observed in Smith-Lemli-Opitz syndrome	Best Basic Research Award (Post-Doctoral Fellow): Jazmine D. W. Yaeger, Sonali Sengupta, Austin L. Walz, Jared Wollman, Paola D. Vermeer, Kevin R. Francis
Coenzyme Q10 mitigates maternal high fat diet-mediated oxidative stress on the preimplantation embryo	Best Basic Research Award (Graduate Student): Abigail Klein, Tricia Larsen, Tyler Gandy, Kyle Siemers, Michelle Baack
Determining the Renal Epithelial Notch Signaling Network to improve our understanding of kidney diseases associated with Alagille Syndrome	Morgan Rothschadl, Jennifer de Riso, Malini Mukherjee, Madhu Janga, Danielle May, Sabdi Bravo, Kyle Roux, and Kamesh Surendran
Dietary Molybdenum Cofactor and Supplemental Molybdate Promote Metabolic Fitness in the Nematode <i>C. Elegans</i>	Kevin D. Oliphant, Robin R. Fettig, Jennifer Snoozy, Ralf R. Mendel, Kurt Warnhoff
Exposure to Gestational Diabetes Mellituslike Fuel Environment Compromises Mitochondrial Respiration in Human Trophoblasts	Kyle Siemers, Tyler Gandy, Tricia Larsen, Prathapan Ayyappan, Michelle Baack
Interactor and pathway analysis of CLN3, CLN6, and CLN8 using proximal biotinylation	Mitchell Rechtzigel, Brandon Meyerink, Jon J. Brudvig, Tyler B. Johnson, Jacob T. Cain, Danielle May, Kyle J. Roux, Jill M. Weimer
Mitochondrial regulation and neural autophagy in WDR45 associated neurodegenerative disease	Brandon L. Meyerink, Krishna S. Karia, Jill M. Weimer, Louis-Jan Pilaz
Modeling the neuronal migration disorder periventricular nodular heterotopia using CRISPR in the embryonic mouse brain	Claire M. Kittock, Louis-Jan Pilaz
NF1+/ex42del miniswine model the cellular disruptions and behavioral presentations of NF1-associated cognitive and motor impairment	H. G. Leppert, Vicki J. Swier, Katherine A. White, Pedro Negro de Assis, Jacob T. Cain
Notch signaling suppresses mTORC1 activity to prevent principal cell to intercalated cell conversion	Jennifer de Riso, Malini Mukherjee, Madhusudhana Janga, Morgan Rothschadl, Sabdi Bravo, Alicia Simmons, Brook Busselman, Indra Chandrasekar, and Kameswaran Surendran
Stage-restricted osteoblasts specify signatures of osteosarcoma molecular subtypes	Jianning Tao, Fang Fang, Haydee M. Torres
Study of the molecular mechanism underlying the USP27X-driven developmental disorder XLID105	Intisar Koch, Emily Konz, Tamar Harel, Martin Rennie, and Francisco Bustos
Treatment with compound reduce lysosomal pathology in in vitro and in vivo CLN2R207x-/- Batten models	Joelle Anderson, Jon Brudvig, Hannah Leppert, Melissa Pratt, Clarissa Booth, Cristina Swanson, Kaylie Timm, Katherine White, Jill Weimer





Case Study	
A Severe Case of a Common Virus: Congenital Cytomegalovirus (CMV) in a Neonate	Tiffany Bender, Pradeeksha Mukuntharaj, Suzanne Reuter
Idiopathic Bullous Pyoderma Gangrenosum in a 12-Year-Old Native American Male: A Case Report	Best Case Study or Series Award: Hunter A. O'Connor, Amber Veldman, Carl S. Galloway
Influenza cerebellitis in a 4-year-old male	Katie Nielson, Meaghan Sievers, Connie Taylor, Peter Paul Lim
Raoultella planticola UTI presenting as hyperbilirubinemia in a 3-day-old infant	David John Jensen, Anthony Thomas Drazick, Rochelle Boote, Peter Paul Lim
Trevor's Disease of the Ankle and Knee: A Case Report	Andrew Reuter, Joshua Mohs, Jared Daniel
Clinical Population Health	
Blunted diastolic blood pressure responses to stress and length of gestation in the context of perceived stress during pregnancy	Best Clinical or Translational Research: Garrett Byron, Anna M. Strahm, Clayton J. Hilmert
Comparison of Visual Methods to Reanalyze Provocative Test Data from Randomized Controlled Clinical Trials in New- or Recent-Onset Type 1 Diabetes	Brenda Orozco, Kurt J. Griffin
HCV in the Pediatric Population with a Focus on Neonatal Testing from Sanford's Boekelheide NICU	Samuel Hagman, Bette Schumacher, Stephen Messier
Influence of respiratory management and fluid status during the first week of life on bronchopulmonary dysplasia in preterm infants	Shehbeet Mangat, Jacquelyn Grev Laurie Hogden, Baiba Steinbrekera
Sexually Transmitted Infection and Teen Pregnancy Prevention Initiative: Examining Needs for Native Youths	Autumn Hurd, DenYelle Kenyon
Quality Improvement	
A Quality Improvement Project to Reduce Moderate to Severe Malnutrition in Infants Born less than 30 weeks Gestation	Best QI Project Award: Jorgenson, L., Wenninger, L., May, J., Sass, E., Foster, M., Roling, J., Fagerness K., Beers C., McCormack, L., Fish, R., and Talavera-Barber, M.

Compassion

More than ever, the department sees the need for compassion in care for children, their families, and each other. Scholarly projects focused on improving care through QI and public awareness initiatives surrounding important health topics including vaccination rates, neonatal nutrition, small baby care, hepatitis C exposure, ventilator associated pneumonia and bronchopulmonary dysplasia prevention, lipid screening in children and improved screening and treatment for postpartum depression. In addition to providing exceptional care for kids, our faculty and residents are involved in many professional and community service projects including service on committees, editorial peer review, and volunteering at Camp Gilbert, Henry's Run, Special Olympics, the Human Society and the Sanford Kid's Kitchen. To encourage compassion and a culture of respect, the department established a Kindness Initiative Award and developed an Advocacy Task Force to shed light on issues impacting child wellbeing and unite like-minded advocates willing to be the voice for children in SD. To establish a kind and compassionate culture for each other, the residents participated in Peds Positivity, a wellness initiative and Dr. Ashley Sandeen began a coaching program and wellness website. I am incredibly proud of these efforts and would like to acknowledge Drs. Jessica White and Lesta Whalen for leading these initiatives and Dr. Dan Marks who was recognized for his incredible acts of kindness.



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Craig Crismon, MD

National Board of Medical Examiners

Joseph Zenel, MD

Rosalind Franklin University of Health Sciences Institutional Review Committee

Dennis C. Stevens, MD, MS, Co-Chair

South Dakota Infant Death Review Committee

Nicole Zimmerman, MD

Professional Services

Local Professional Services

Community Service Highlights

- Dr. Kyle Baum worked on a project to improve early child literacy through the creation of a Little Free Library.
- Dr. Kyle Baum served at Camp Gilbert: Camp for Children with Diabetes. June 2023.
- Dr. Shehbeet Mangat and others assisted to organize a bake sale at Dakota Café to raise donations to Child's Voice.
- Drs. Ashley Coaston Kuipers and Ana Nevarez Gilbert volunteered with Special Olympics of South Dakota to provide pre-participation physicals.

Jyoti Angal, PhD

Chair, Avera IRB

Michelle Baack, MD

Advisor, Pediatric Journal Club and EBM
Member, Sanford Research & World Clinic Advisory Board
Pediatric Chair, Sanford Research

Craig Crismon, MD

Assistant Scoutmaster, Boy Scouts

Arielle Deutsch, PhD

ReNew Collaboration Bethany Christian Services
Advisory Board
Oglala Lakota Children's Justice Center Advisory Board

Pam Koepsell, MSN

Board Member, Sad Isn't Bad-Grief Support for children
Local Chapter Treasurer, P.E.O

Margaret Kuehler, MD

South Dakota EMS for Children

Stephen Messier, MD

Medical Director, NICU
Knights of Columbus Marquette Council, Cathedral Parish

Thayne Munce, PhD

Member, Sports Medicine Advisory Committee, South
Dakota High School Activities Association (SDHSAA)

Sara Pepper, MD

Pediatric Department Chair, Avera Sacred Heart Hospital

Suzanne Reuter, MD

Assistant Dean, Medical Student Affairs Sioux Falls, USD
SSOM
Chapter Advisor, SSOM Aequitas Health Honor Society

Amy Scepaniak, MS

Member, EHDI Advisory Council
Board Member, SD DakotaLink

Dennis Stevens, MD, MS

Annual Medical Student Research Poster Presentations,
Judge (October, 2022)

April Willman, MD

Coach, Hogan Assessment Certification
Volunteer Coordinator, March to the Meridian
Sunday School Teacher, Trinity Lutheran Church
Saxophonist, Mount Marty University Concert and Jazz
Band
Saxophonist, Yankton Area Summer Band

Nicole Zimmerman, MD

Pediatric Resident Member, Board of the South Dakota
Chapter of the American Academy of Pediatrics

Regional Professional Services**Michelle Baack, MD**

Advisor, American Physician Scientists Association
(APSA) SD Chapter
Governor Appointed Member, South Dakota Medicaid

Advisory Board
Governor Appointed Member, South Dakota Medicaid
Pharmacy & Therapeutics Committee
Chair, Department of Pediatrics, USD SSOM

Craig Crismon, MD

Medical Director, Camp Gilbert (SD Diabetes Camp)

Christy Hockett, PhD

Invited Member, South Dakota Department of
Education, South Dakota State of Child Wellbeing
Data Initiative 2021-2023
Voting Member, South Dakota Rural Maternity
Obstetrics Management Strategies (RMOMS-SD)
Network Governing Board, 2023 - present
Lead, ARI Data Management & Analysis Core, Avera
Research Institute, 2021 – present
Director, Community Research, Avera Research Institute,
2019 –present

Marni Johnson Martin, AuD

SD Act Early Team
SD Plans of Safe Care Team
SD Early Hearing Detection & Intervention Advisory
Board

DenYelle Kenyon, PhD

Member at Large, South Dakota Public Health
Association

Lance Lee, PhD

Chair, 7th Annual Eastern South Dakota Research
Symposium Organizing Committee
Committee Member, Biochemistry Program Graduate
Committee, SDSU

Daniel Mark, MD

Member, SDAHO Pediatric Crisis Standards of Care Task
Force

Lacey McCormack, PhD

Member (Appointed), Licensed Nutrition & Dietetics
Advisory Committee, South Dakota Board of Medical
& Osteopathic Examiners

Lauritz Meyer, MD

Board & Planning Committee Member, South Dakota
Perinatal Association

Thayne Munce, PhD

State Representative, Executive Board, Northland
Chapter of the American College of Sports Medicine
(NACSM)

Nicole Poppinga, MD

Committee Member, East River Child Death Review

Maria Talavera-Barber, DO

Board Member, South Dakota Perinatal Association
(Conference organizer & recruitment of speakers)

National & International Professional Services

Prathapan Ayyappan, PhD

Journal Peer Review: Antioxidants, Int J Mol Sci, Biomed Pharmacotherapy, and Cell Signaling

Michelle Baack, MD

Standing Member, NIH Nutrition & Metabolism in Health and Disease Study Section

Journal Peer Review: Portland Press/Clinical Sciences, American Journal of Perinatology, European Journal of Clinical Investigation, Nutrients, and Acta Physiologica

Co-Organizer: 2022 Aspen Perinatal Biology Symposium
Associate Editor: American Journal of Perinatology

Francisco Bustos, PhD

Journal Peer Review: Biological Research, BRES-D-22-00517, and I Biological Research, BRES-D-22-00306_R1

Guest editor: Special issue of Biomolecules (IF 6.064), "Molecular and Cellular Basis for Rare Genetic Diseases"

Indra Chandrasekar, PhD

Journal Peer Review: MDPI journals, Cells

Grant Reviewer: NIGMS Review of Centers of Biomedical Research Excellence (COBRE) Phase 2 Applications, and the National Institute of Diabetes and Digestive and Kidney Disease – Innovative Science Accelerator Program

Arielle Deutsch, PhD

Research Society for Alcoholism (National Advocacy and Public Education and Diversity Committees)

Journal Peer Review: Systems, Addictive Behaviors, System Dynamics Review, Alcohol Current Reviews, Journal of Research on Adolescent Health, and Journal of Family Violence

Consulting Editor: Developmental Psychology

Kevin Francis, MD

Advisory Board member, RSH/Smith-Lemli-Opitz Foundation

Guest Editor: International Journal of Molecular Sciences, Special Issue "Disorders of Cholesterol Homeostasis"

Jacquelyn Grev, MD

Journal Peer Review: South Dakota Medicine, Cochrane Neonatal articles

Kurt Griffin, MD, PhD

UNC/NC State Laboratory: External Advisory Committee for Early Check (state-wide voluntary newborn screening (NBS) research program in North Carolina adding genomic sequencing to identify newborns with rare genetic conditions and to generate polygenic risk scores (PRS) including T1D)

NIDDK T1D Prevention Partnership

Consensus Monitoring Guidelines for Persons with Antibody-Positive Pre-Stage-3 Type 1 Diabetes (JDRF Supported)

Canadian T1D Screening Research Consortium (Diane Wherrett, PI)

Journal Peer Review: Diabetes Care

Pediatric Endocrine Society: Diabetes Special Interest Group Co-Chair 2018 – 2022, and Joint Working Group (Diabetes SIG / Drugs & Therapeutics Committee) to develop practice guidelines for teplizumab administration

Christine Hockett, PhD

NIH-nominated Member, ECHO Cycle 2 Interim Operations Committee

Invited Member, ECHO Cycle 2 REDCap Focus Group

Member, ECHO Institutional Developmental Award (IDeA) States Pediatric Clinical Trails Network, Publications Committee Member, Advancing Clinical Trials in Neonatal Opioid Withdrawal Syndrome (ACT NOW) Publications Committee, IDeA States Pediatric Clinical Trials Network Representative

Jody Huber, MD

NBME Children's Health Test Material Development Committee

Academic Pediatric Association Educational Scholars Program Advisor for Cohort 10

Michael Kareta, PhD

Journal Peer Review

DenYelle Kenyon, PhD

Guest Editor: Public Health Reports, Tribal Epidemiology Center Journal Supplement

Lance Lee, PhD

Trainee & Junior Scientist CV Reviewer, American Society for Cell Biology

Grant Reviewer: National Science Foundation

Journal Peer Review: Andrologia; Thorax; Journal of Medical Genetics; Frontiers of Medicine; Molecular Genetics & Genomic Medicine

Guest Associate Editor: Frontiers in Cell and Developmental Biology "Model Organisms for Cilia Research"

Review Editor: Frontiers in Cell and Developmental Biology

Lacey McCormack, PhD

Invited Participant, The Commission on Dietetic Registration's (CDR) Item Pool Review & New Item Bias Review meeting for the Registration Examination for Dietitians

Journal Peer Review: International Journal of Behavioral Nutrition & Physical Activity, Journal of Hunger and Environmental Nutrition (n=2), Journal of Nutrition Education & Behavior (n=3), Preventive Medicine Reports, Public Health Nutrition (n=2), and Public

Health Nutrition
Abstract Review: Academy of Nutrition & Dietetics
annual Food & Nutrition Conference & Expo (FNCE)

Eric Mittelstaedt, MD

Journal Peer Review: Manuscripts for Progress in
Pediatric Cardiology

Thayne Munce, PhD

Leadership Board Member, National Youth Sports Health
and Safety Institute (NYSHSI)
Member, Medical Advisory Panel, USA Football

Michael Naegle, MD

Program Representative, American Academy of
Pediatrics Section of Pediatric Trainees

Nicole Poppinga, MD

AAP UTI Clinical Practice Guideline Group 3 Lead: Risk
Factors/Prompt Medical Evals. Watchful waiting

Kyle Roux, PhD

Editorial board member for two journals
Journal Peer Review: Numerous other journals

Kameswaran Surendran, PhD

Co-moderator: "Genetics, Development and Therapies"
at the American Society of Nephrology Kidney Week
2022 annual meeting
Panel Review: NIH/NIDDK Special Emphasis Panels-
07/2022, 11/2022, 04/2023
Grant Review: NWO, the Dutch Research Council and
the Croatian Science Foundation (HRZZ)
Abstract Review: American Society of Nephrology (ASN)
2022 Annual Meeting, Development, Stem Cells, and
Regenerative Medicine Section
Journal Peer Review: Journal of American Society of
Nephrology, American Journal of Physiology-Renal,
International Journal of Molecular Sciences, Clinical
and Experimental Pharmacology & Physiology, and
Cells

Maria Talavera-Barber, DO

Journal Peer Review: American Journal of Perinatology;
Neonatology

Jianning Tao, PhD

Journal Peer Review: Several Journals
Research Topic Editor: Frontiers in Cell and
Developmental Biology Journal

Conclusion

All in all, 2022-23 was a year of positivity and growth for the department of pediatrics. I feel extremely privileged to watch the department come "together in teaching, innovation and compassion" and I am excited about the trajectory. I have no doubt that together we are stronger and can do more great things for our patients, families, communities, and each other. Please join me in celebrating your many accomplishments and keep working to change the future, one child at a time.





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SOUTH DAKOTA
SANFORD SCHOOL OF MEDICINE

Together in teaching, innovation and compassion

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