

University of South Dakota Sanford School of Medicine

Department of Obstetrics & Gynecology

Annual Report

2022-2023



Mission

We educate students to provide compassionate health care for women.

Priorities

We provide medical students with hands-on teaching and clinical experience in the reproductive and general preventive areas of women's health.

Our educational experiences focus on patient encounters, extensive didactic materials, interactive case-based discussions with faculty, and clinical rotations that develop clinical skills and reasoning. Electives are available for both research and clinical experiences across the state of South Dakota including:

- General Obstetrics and Gynecology
- Research in Ob/Gyn I & II
- Perinatology
- Reproductive Endocrinology
- Gynecologic Oncology
- Urogynecology & Pelvic Medicine
- Genetics
- Sub-Internship Experiences

Inclusive Excellence Statement

The University of South Dakota Sanford School of Medicine values diversity and its essential role in achieving the educational, scholarship, and service missions of the school. Therefore, the medical school is committed to both recruitment and retention of students, residents, faculty, and staff who through their diversity enrich the learning environment and promote inclusive excellence. We recognize diversity as relating to sex, race, color, creed, rural background, socioeconomic status, national origin, ancestry, citizenship, gender, gender identification, transgender, sexual orientation, religion, age, disability, genetic information and veteran status. In addition, we value persons with broad life experiences, with records of service to disadvantaged populations, and with other attributes that may enhance the learning community.

The medical school has chosen three areas of emphasis on diversity to enrich the learning environment and promote inclusive excellence: American Indians, rural, and gender.



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Meet the Team



Professor & Chair

Keith Hansen, MD

Dr Hansen specializes in reproductive endocrinology and infertility, pediatric and adolescent gynecology, and minimally invasive gynecologic surgery. He's led the department for 20 years and serves as the editor of South Dakota Medicine.

Medical Student Education



Clerkship Director & LIC Coordinator

Laurie Landeen, MD

Dr Landeen specializes in minimally invasive robotic and gynecologic surgery and sexual health. She is a Fellow of the American College of Obstetricians and Gynecologists, served in the USAF, and has provided 20 years of service at SSOM.

Administrative Staff



Department Manager

Mike Turner

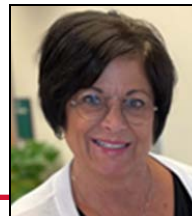
Mike serves as the shared Department Manager for Ob/Gyn, Pathology, and Surgery. A career in marketing and project management led him to USD SSOM where he hopes to help with process improvement and faculty/student outreach.



LIC Advisor - Yankton

Amy Eichfeld, MD

Dr Eichfeld started out as an audiologist but found her true calling as an OB/GYN and graduated for the second time in '99. She has served as an instructor for over 20 years and loves making a difference in the lives of both students and patients.



Department Assistant

Kris Pearson

Kris joined USD nine years ago and hasn't looked back. She's the Pillar II Assistant but has also assisted with everything from clerkship minutes to event planning. Kris is also a big basketball fan as her daughter plays for USD. Go Morgan! Go Yotes!



LIC Advisor - Sioux Falls

Annie Siewert, MD

Dr Siewert has worked with hundreds of medical students and guided them onto the next steps in their education. Dr Siewert finds so much joy in her practice where she specializes in pregnancy, uterine complications, and the transitions of menopause.



Department Assistant

Lori Rolfe

Lori became part of the staff team after working for the Sioux Falls School District for 17 years. Her grounding in education has been invaluable as she has helped update department information, standardize procedures, and handle the Pillar III courses.



LIC Advisor - Rapid City

Elizabeth Sutton, MD

Dr Sutton graduated from the University of South Dakota Sanford School of Medicine and has returned as faculty to help motivate, mentor, and teach. She has a special interest in contraceptive management and high-risk pregnancies.

Regional Faculty

The Mission of the University of South Dakota Sanford School of Medicine is to provide the opportunity for South Dakota residents to receive a quality, broad-based medical education with an emphasis on family medicine.

In an effort to increase access to quality health care education, USD SSOM has created a network of faculty across the state of South Dakota. Together with over 95 faculty serving 12 areas our aim is to motivate medical students to train in, return to, and serve communities across the state.



Aberdeen

Christine Stehly, MD

Brookings

Donald Evenson, PhD

Fort Meade

Tara Haas, MD

Harrisburg

Lauren O'Brien, MD
Erin Vande Lune, CNM

Humboldt

Sarah Roe, CNM

Mitchell

James Wagner, DO

Pierre

Dawn Boender, MD
Brent Lindbloom, DO
Amy Lueking, MD
Shelley Nielson, MD
Jessica Rasmussen, MD

Rapid City

Kyle Adams, DO
Angela Anderson, MD
Mark Ballard, MD
Jeffrey Bendt, MD
Shana Bernhard, MD
Marcia Beshara, MD
Marvin Buehner, MD
Rochelle Christensen, MD
Katherine Croft, MD
Katherine Degen, MD
Helen Frederickson, MD
Heather Moline, MD
Pamela Schmagel, MD
Elizabeth Sutton, MD
Katherine Whaley, MD

Sioux Falls

Matthew Barker, MD
Maria Bell, MD, MPH, MBA
Kevin Benson, MD
Dominique Boadwine, MD
Michelle Booze, PhD
Lior Borovik, MS
Jeffrey Boyle, MD
Ashley Briggs, MD
Catherine Brockmeier, DO
Megan Burgers, CNM
Kaitlyn Burns, MS
Kristen De Berg, MS
Elizabeth Dimitrievich, MD
Kristi Eglund, PhD
Amy Elliott, PhD
Terry Engelmann, CNM
Jason Flanagan, MS
Tamara Fuller-Eddins, MD
Nicole Grossenburg, MD
Keith Hansen, MD
Jeanne Hassebroek-Johnson, MD
Les Heddleston, MD
Kristin Hermanson, MD
Elizabeth Hultgren, MD, PhD
Brenda Kallemeyn, MD
Amanda Kappenman, MD
Amy Kelley, MD
Meredith Kemper, MD
RaeAnn Kragenbring, MS
Laurie Landeen, MD, MBA
Rebecca Loman, MS
Kimberlee McKay, MD
Michael McNamara, DO
Elizabeth Miller, MD
W. Keith Miskimins, PhD
Jane Peters, MD
Larissa Risty, MS
Abrea Roark, MD
Frederico Rocha, MD
Rachel Rodel, MD
Javier Rodriguez Kovacs, MD

Sioux Falls - continued

Luis Rojas-Espallat, MD
Erin Royer, MS, CGC
Amal Salama, DO
Amber Saloum, MD
Hannah Sammons, DNP-CNM
Erica Schipper, MD
Delf Schmidt-Grimminger, MD, MBA
Jodi Scott, MD
Anthony Sierra, MD
Annette Siewert, MD
Heather Spies, MD
David Starks, MD
Anna Strahm, PhD
Kali Swift, MS
Margaret Terveen, MD
Molly Uhing, MD
Tiffany Von Wald, MD, MPH
Emily Winterton, MD
Amelia Woltanski Mroch, MS

Spearfish

Heather Brewer, MD
Michelle Krohn, DO

Watertown

Daniel Flaherty, MD

Yankton

Kevin Bray, MD
Emma Bye, MD
Amy Eichfeld, MD
Robert Ferrell, MD
Spencer Ferrell, MD
Howard Gilmore, MD
Jill Sternquist, MD

Faculty and Staff Changes

Retirements/Change of Position:



Angela Anderson, MD
Retired from LIC Coordinator position for Rapid City
Refocused on clinical and teaching pursuits



Mark Ballard, MD
Retired from practice
Thank you for 21 years of service to SSOM



Kevin Bray, MD
Retired from LIC Coordinator position for Yankton
Thank you for 27 years of service to SSOM



Jeffrey Boyle, MD
Retired from practice
Thank you for 19 years of service to SSOM



Lacy Koth
Moved to FARM team within USD
SSOM



Amy Eichfeld, MD
Promoted to LIC Advisor for Yankton



Spencer Ferrell, MD
Joined faculty



Lauren O'Brien, MD
Joined faculty



Frederico Rocha, MD
Joined faculty



Javier Rodriguez Kovacs, MD
Joined faculty



Lori Rolfe
New Department Assistant

New Department/Faculty Members:



Dominique Boadwine, MD
Joined faculty



Emma Bye, MD
Joined faculty



Elizabeth Sutton, MD
Promoted to LIC Advisor for Rapid City



Mike Turner
New Department Manager



James Wagner, DO
Joined faculty

Education

Medical Education Curriculum

Pillar I Educational Activities

Students are introduced to the study of obstetrics and gynecology during their first year in medical school and both topics are a fundamental aspect of medical students' Pillar I education.

Basic elements of the practice are introduced through clinical foundations and medical foundations courses. In addition, the field is studied in depth during the endocrine and reproduction course.

Pillar II Educational Activities

Ob/Gyn is also fully integrated into USD SSOM's Longitudinal Integrated Clerkship (LIC) used through Pillar II. Students gain clinical experience while maintaining time for shadowing, studying for exams, and didactic lessons. The LIC approach has been shown to increase Step 2 test scores and provide an integrated approach to medicine.

General

- Students rotate through several core specialties throughout Pillar II to maintain their skills and understanding as they prepare for their exams
- Each week includes rotations in these core specialties: Peds, IM, Ob/Gyn, General Surgery, Psychiatry, Neurology, and Family Medicine

Ob/Gyn Clerkship

- Ob/Gyn rotations (pink) include both clinical and OR experiences
- Schedules are built so students can meet patients in clinic and follow up with related surgery when necessary

Ob/Gyn ICE Weeks and Call Shifts

- In addition to their usual rotations students also participate in call shifts and intensive Inpatient Clinical Experience (ICE) weeks
- Call shifts include overnight and 24-hours shifts designed to show the many aspects involved in a career in Ob/Gyn
- ICE weeks present students the full spectrum of Obstetric & Gynecologic conditions. They take H&Ps, participate in the OR, and work on the Labor & Delivery Ward under the supervision of their attending clinician.

2/6/23	Orientation	Week 1	Orientation				
2/13/23	FM	Week 2	Family Medicine				
2/20/23	FM	Week 3					
2/27/23	FM	Week 4					
3/6/23	LIC #2	Week 5	Ob/Gyn Clinic	Ob/Gyn OR		Psych	
			Family Medicine	Internal Medicine	Peds		Friday Academy
3/13/23	LIC #1	Week 6	Sim Week				
3/20/23	LIC #2	Week 7	Surgery ICE				
3/27/23	LIC #1	Week 8	Ob/Gyn Clinic	Ob/Gyn OR	Neuro	Psych	
			Family Medicine	Internal Medicine	Peds		Friday Academy
							Surgery Call Shift
4/3/23	LIC #2	Week 9	Ob/Gyn Clinic	Ob/Gyn OR		Psych	
			Family Medicine	Internal Medicine	Peds		Friday Academy
4/10/23	LIC #1	Week 10	IM ICE				
4/17/23	LIC #2	Week 11	Ob/Gyn Clinic	Ob/Gyn OR		Psych	
			Family Medicine	Internal Medicine	Peds		Friday Academy
4/24/23	LIC #1	Week 12	Neuro ICE				
5/1/23	LIC #2	Week 13	Ob/Gyn Clinic	Ob/Gyn OR		Psych	
			Family Medicine	Internal Medicine	Peds		Friday Academy
							Surgery Call Shift
5/8/23	LIC #1	Week 14	Ob/Gyn Clinic	Ob/Gyn OR	Neuro	Psych	
			Family Medicine	Internal Medicine	Peds		Friday Academy
5/15/23	LIC #2	Week 15	Psych ICE				

Pillar III Educational Activities

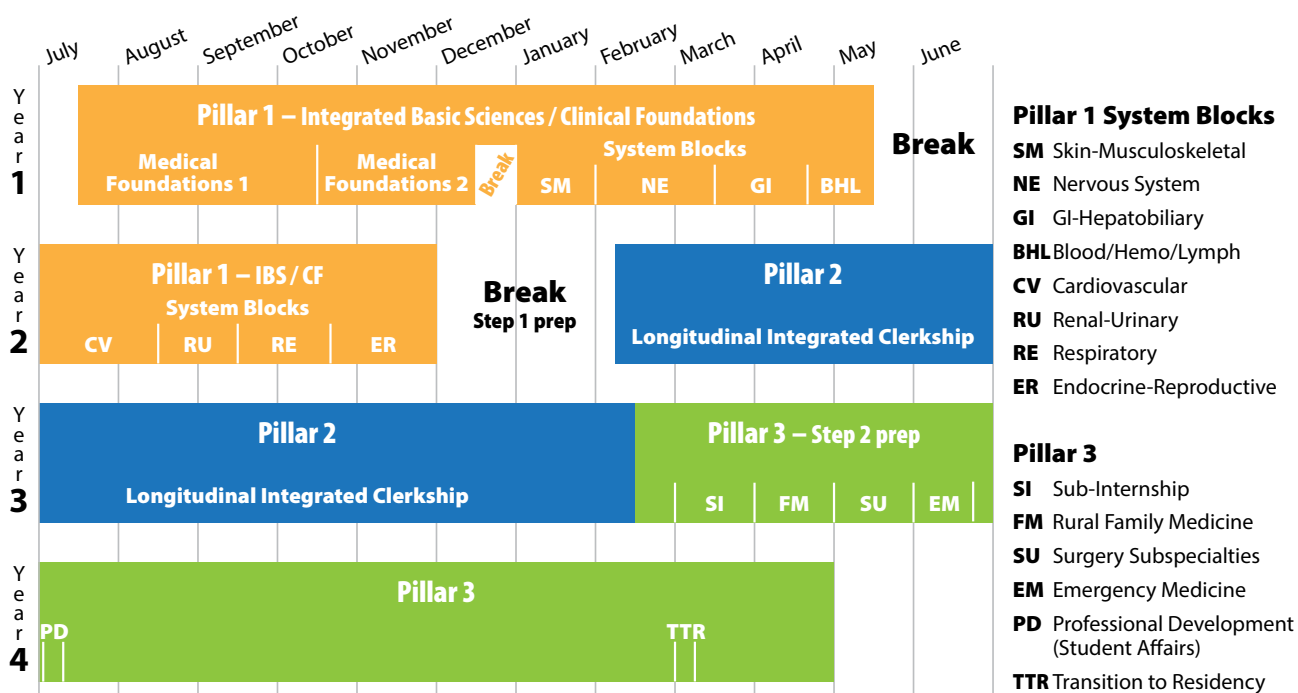
Pillar III is the culmination of medical school where students gain clinical skills, start working more independently, focus on a specialty, and prepare for residency. USD SSOM provides students ample opportunity to pursue courses in Ob/Gyn as either a path to a career or to enhance their education in a related specialty. Pillar III Ob/Gyn courses include:

- OGYN-806 - Sub-internship in Obstetrics-Gynecology
- OGYN-811 - Research in Obstetrics-Gynecology I
- OGYN-812 - Research in Obstetrics-Gynecology II
- OGYN-820 - Obstetrics and Gynecology
- OGYN-822 - Perinatology
- OGYN-823 - Reproductive Endocrinology
- OGYN-824 - Gynecologic Oncology
- OGYN-825 - Urogynecology & Pelvic Medicine
- OGYN-826 - Genetics
- OGYN-890 - Extramural Elective

Students focusing on Ob/Gyn may repeat some courses to gain additional experience in various hospital settings, rural clinics, or with different attendings. These opportunities help students practice clinical skills and determine what type of specialty/subspecialty and career they may want to pursue.



Three Pillar Curriculum



Ob/Gyn Interest Group & ACOG

The Obstetrics and Gynecology Student Interest Group (OGIG) is active in providing opportunities for students to interact with faculty, staff, and other like-minded students. Elections are held each year giving new students an opportunity to organize and lead a group they are passionate about. Our 2022 - 2023 team includes:

Shelley Feng	Co-president
Sophie Richardson	Co-president
Alaire Buchholz	Pillar 2 Representative

OGIG also includes 40 students that have participated in a wide range of events:

Peer Mentorship – Focused on Ob/Gyn shelf review for the class of 2024

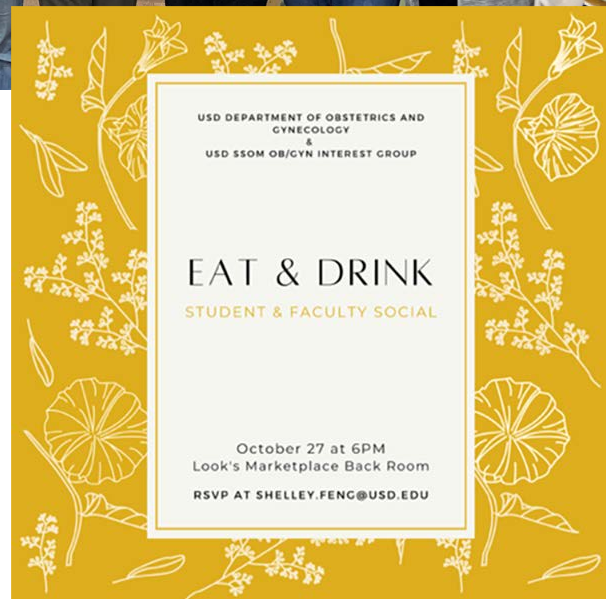
Post-match forum – Held online to review, analyze, and discuss the match process

Journal Club – Held twice in the fall with Dr Von Wald and Dr Hultgren



2022 Student / Faculty Social

- Faculty provided a networking opportunity and a chance to ask questions about working in the field
 - Faculty attended from Sanford and Avera
 - Covered a broad range of specialties
- Students came prepared with questions about residency and beyond
 - Multiple classes attended covering CO 2023 through CO 2025
 - Students from both the Ob/Gyn interest group and the general student body attended
- Everyone enjoyed great food provided by Look's



2022 ACOG Meeting

Each year the department provides several students, who are interested in a career in Ob/Gyn, the opportunity to travel to the Annual Clinical and Scientific Meeting of the American College of Obstetricians and Gynecologists. In 2022, we were fortunate to send six students:

- Shelley Feng
- Lindsay Leigh
- Eli Louwagie
- Sophie Richardson
- Megan Torve
- Annika Van Oosbree



The meeting was held in San Diego, CA and presented an unrivaled opportunity to:

- Network with other medical students, residents, and faculty in Ob/Gyn
- Receive assistance with developing their CV
- Attend lessons in how interview for residency
- Develop research ideas



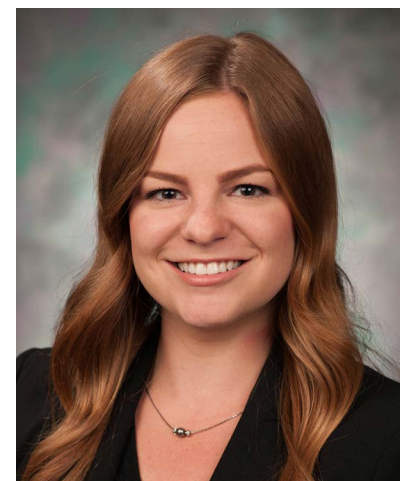
Graduate Medical Education

Over the past 18 years, 79 students have matched into Ob/Gyn residencies spanning:

- 45 Residency Programs - Including prestigious and competitive matches at:
 - Mayo
 - University of Minnesota
 - Creighton
 - Layola
 - Rush
 - University of Wisconsin
- 24 States
 - 54 students have matched across the Midwest
 - Kansas and Nebraska are the most popular destinations
 - Students have covered the whole US going far east as Maine and as far west as Hawaii!
- Two students from CO 2023 have accepted residency posts in obstetrics and gynecology:



Annika Van Oosbree
Medical University of South Carolina
Charleston, SC



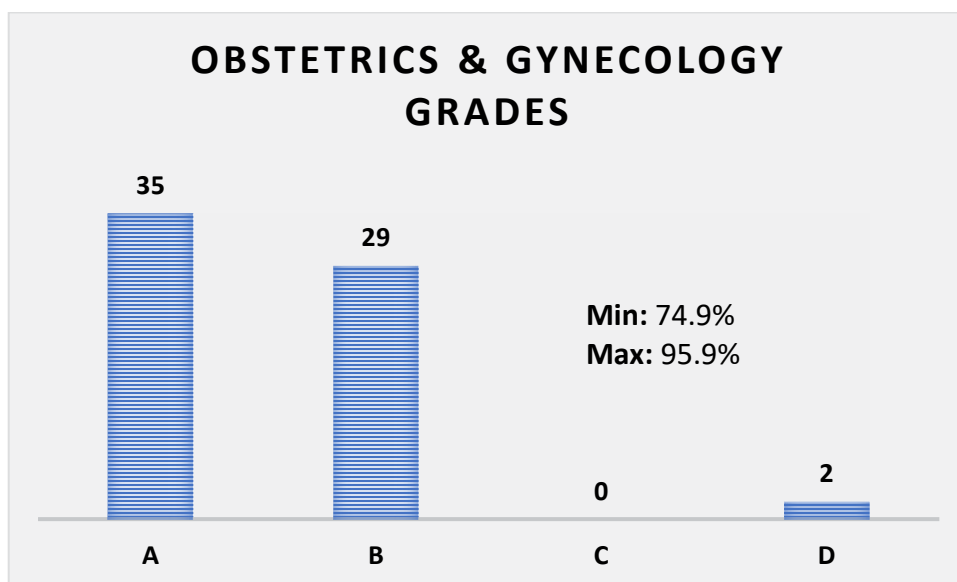
Lindsay Leigh
University of Kansas School of Medicine
Wichita, KS

Medical Education Update

Sixty-six students were enrolled at the completion of the 2nd semester. The CO2023 is the first Pillar 2 LIC class to move under the new two-semester grading system. Numerous components of the Pillar 2 clerkships and competencies grades were changed as a result, as well as changes to the NBME and overall grading scale to improve scoring sensitivity. Readers should be cautious of direct correlations between the current class and previous classes due to these changes. The report contains grade results for the clerkships, competencies, and the 1-credit courses.

The clerkship's overall grade averages were slightly lower than in previous years but no areas approaching significance. There was an increase in the number of students earning B's but this was expected as part of the curricular and grading scale changes to increase grade differentiation. The CO2023 also had an increase in the number of "D" letter grades (n=8) compared to CO2022 (n=0). Consequently, there was a rise in the number of students (n = 7) being referred to the Student Progress and Conduct Committee, mainly due to not achieving a passing score on their NBME exams). Competency grades were similar compared to previous classes with no areas of concern. The grades reflected in this report do not contain remediated course grade data.

In general, there were no significant issues related to the curriculum changes that adversely impacted student performance for CO2023. The Office of Medical Education will continue to monitor the implemented changes for future classes.



Ob/Gyn Final Grades 3-year Trend

	Overall Average	Avera	FARM	Rapid City	Sanford	Yankton
CO 2021	91.38%	91.80%	92.49%	88.90%	91.81%	91.79%
CO 2022	91.93%	91.27%	91.86%	92.26%	92.59%	90.88%
CO 2023	89.78%	86.72%	90.46%	91.84%	89.66%	91.71%

Continuing Medical Education

The Department hosts video-conferenced presentations of cases and/or journal articles with special attention paid to differential diagnoses, the natural history of the genetic disorder, the availability of genetic testing, and, when possible, the outcome of any testing.

Date	Topic	Presenter
6-Apr-22	"Reproductive Justice and the Genetic Counselor"	Katie Sagaser, Genetic Counselor
13-Apr-22	"Whether, When, and How to Communicate Genetic Risk to Minors"	Madison Van Peurse, Genetic Counseling Intern
20-Apr-22	"Scientific and Health Literacy in Genetic Counseling"	Becca Jirik, Genetic Counseling Intern
27-Apr-22	"Genetic Counselors' Approach to Postmortem Genetic Testing After Sudden Death: An Exploratory Study"	Amie Decker, Genetic Counseling Intern
5-May-22	"Benign but Reportable Variants, How Benign are They Really?"	Mitchell Muske, Genetic Counseling Intern
11-May-22	"Preventive Genomics at G2P"	Carrie Blout Zawatsky, Genetic Counselor
7-Sep-22	"Reproductive Justice and the Genetic Counselor"	Katie Sagaser, Genetic Counselor
14-Sep-22	"Are Genetic Counselors Prepared to Counsel Active-Duty Service Members? A Survey of Genetic Counselors' Self-Efficacy, Counseling Techniques, and Knowledge of Military Policy"	Rachel Zigler, Genetic Counseling Intern
21-Sep-22	"Novel Gene Discovery: Candidate Genes, GeneMatcher, and the Role of the GC"	Madison Van Peurse, Genetic Counseling Intern
28-Sep-22	"The Long-Term Impact of Receiving Incidental Findings on Parents Undergoing Genome-Wide Sequencing"	Hope Humphrey, Genetic Counseling Intern
5-Oct-22	"The Clinical Genome Resource (ClinGen): An Overview"	Juliann Savatt, Genetic Counselor
12-Oct-22	"Data sharing (or lack thereof)"	Erin Tapper, Genetic Counseling Intern
19-Oct-22	"Individuation and Implicit Racial Bias in Genetic Counseling Communication"	Kelli Gilsar, Genetic Counseling Intern
26-Oct-22	"The Implementation of NIPT into the California Prenatal Screening Program"	Kailee McGeer, Genetic Counseling Intern
2-Nov-22	"Law & Order: NGS"	Kayleigh Avello, Genetic Counselor
9-Nov-22	"Rapid Genetic Testing for BRCA1 and BRCA2 Mutations at the Time of Breast Cancer Diagnosis: An Observational Study"	Elisa Lapadula, Genetic Counseling Intern
30-Nov-22	"When the Autonomy is in Someone Else's Hands"	Espi Austvold, Genetic Counseling Intern
7-Dec-22	"Co-Design, Implementation, and Evaluation of Plain Language Genomic Test Reports"	Matthew Gillogly, Genetic Counseling Intern
8-Feb-23	"Service Delivery Models and Interdisciplinary Utilization"	Kristi Tu, Genetic Counseling Intern
15-Feb-23	"Outcomes of Psychiatric Genetic Counseling in Relation to Time Since Diagnosis and Symptom Onset"	Taylor Beagle, Genetic Counseling Intern
22-Feb-23	"Barriers to Rapport Before you Walk in the Door!"	Amanda Campbell, Genetic Counseling Intern
1-Mar-23	"Genetic Counseling and Diagnostic Genetic Testing for Familial Amyotrophic Lateral Sclerosis and/or Frontotemporal Dementia: A Qualitative Study of Client Experiences"	Abby Dessen, Genetic Counseling Intern
15-Mar-23	"The Rise and Fall of the 'GC Doctorate' Discussion"	Taylor Vaughn, Genetic Counseling Intern
22-Mar-23	"Cord Blood Testing: Utility, Coordination, and Triage"	Arielle Flynn, Genetic Counselor

Research and Scholarly Activities

Articles, Books & Writings

Matthew Barker, MD

Biach, VL, van Oosbree A, Cookson N, Barker MA. Training of Physical Therapists in Pelvic Floor Techniques: Is Care Standardized and Available in the Rural Midwest. *South Dakota Journal of Medicine* 2022;75(8):348-353.

Ryan Askeland, MD

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Maria Bell, MD MPH, MBA

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Michelle Booze, PhD

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Kaitlyn Burns, MS

McKnight D, Morales A, Hatchell KE, Burns K, et al. Genetic Testing to Inform Epilepsy Treatment Management From an International Study of Clinical Practice. *JAMA Neurol*. 2022;79(12):1267-1276.

Emma Bye, MD

Bye, E., Leval, R., Sayles, H. et al. Parental postpartum depression among medical residents. *Arch Womens Ment Health* 25, 1129–1135 (2022).

Kristen De Berg, MS

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Kristi Egland, PhD

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Donald Evenson, PhD

Evenson DP. Sperm Chromatin Structure Assay (SCSA®) for Fertility Assessment. *Curr Protoc*. 2022 Aug;2(8):e508. doi: 10.1002/cpz1.508.

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Agarwal A, Sharma R, Gupta S, Finelli R, Parekh N, Panner Selvam MK, Henkel R, Durairajanayagam D, Pompeu C, Madani S, Belo A, Singh N, Covarrubias S, Darbandi S, Sadeghi R, Darbandi M, Vogiatzi P, Boitrelle F, Simopoulou M, Saleh R, Arafa M, Majzoub A, Kandil H, Zini A, Ko E, Alvarez JG, Martinez M, Ramsay J, Jindal S, Busetto GM, Sallam H, Maldonado I, Anagnostopoulou C, Alves MG, Sengupta P, Gilany K, Evenson DP, Lewis SEM, Gosalvez J, Ambar RF, Shah R. Sperm Morphology Assessment in the Era of Intracytoplasmic Sperm Injection: Reliable Results Require Focus on Standardization, Quality Control, and Training. *World J Mens Health*. 2022 Jul;40(3):347-360. doi: 10.5534/wjmh.210054. Epub 2021 Jun 17.

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Jason Flanagan, MS

Renkes E, Flanagan J, Deberg K, Bell M. How to Approach Direct-to-Consumer Genetic Testing with Your Patients. SD Medicine 2022.

Schriever M, Flanagan J, VonWald T. Preimplantation Genetic Testing for Desired Pregnancy in Case of Parental Balanced Translocation. SD Medicine 2022.

An Economic Analysis of the Value of Genetic Testing, World Economic Forum, Co-Author, 2021

Keith Hansen, MD

Hansen K. SDSMA Enhances Medical Student Education. S D Med. 2022 Jan;75(1):4.

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Michelle Krohn, DO

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Keith Miskimins, PhD

Powell SF, Mazurczak M, Dib EG, Bleeker JS, Geeraerts LH, Tinguely M, Lohr MM, McGraw SC, Jensen AW, Ellison CA, Black LJ, Puumala SE, Reed VJ, Miskimins WK, Lee JH, Spanos WC. Phase II study of dichloroacetate, an inhibitor of pyruvate dehydrogenase, in combination with chemoradiotherapy for unresected, locally advanced head and neck squamous cell carcinoma. Invest New Drugs. 2022 Jun;40(3):622-633.

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Rachel Rodel, MD

Buchholz, A, Hansen, K, Rodel RL. Tranexamic Acid in the Prevention and Treatment of Postpartum Hemorrhage: A Review. South Dakota Medicine. Submitted, 2022.

Luis Rojas-Espaillet, MD

Sulaiman R, De P, Aske JC, Lin X, Dale A, Vaselaar E, Koirala N, Ageton C, Gaster K, Plorde J, Solomon

B, Thaemert B, Meyer P, Espaillet LR, Starks D, Dey N. A Laboratory-Friendly CTC Identification: Comparable Double-Immunocytochemistry with Triple-Immunofluorescence. Cancers (Basel). 2022 Jun 10;14(12):2871.

David Starks, MD, MPH

Starks D, Rojas-Espaillet L, Meissner T, Williams, C. Phase I dose escalation study of dual PI3K/TOR inhibition by Sapanisertib and Serabelisib in combination with paclitaxel in patients with advanced solid tumors. Gynecol Oncol. 2022 Sep;166(3):403-409.

Sulaiman R, De P, Aske JC, Lin X, Dale A, Vaselaar E, Ageton C, Gaster K, Espaillet LR, Starks D, Dey N. Identification and Morphological Characterization of Features of Circulating Cancer-Associated Macrophage-like Cells (CAMLs) in Endometrial Cancers. Cancers (Basel). 2022 Sep 21;14(19):4577

Sulaiman R, De P, Aske JC, Lin X, Dale A, Vaselaar E, Koirala N, Ageton C, Gaster K, Plorde J, Solomon B, Thaemert B, Meyer P, Espaillet LR, Starks D, Dey N. A Laboratory-Friendly CTC Identification: Comparable Double-Immunocytochemistry with Triple-Immunofluorescence. Cancers (Basel). 2022 Jun 10;14(12):2871.

Anna Strahm, PhD

Strahm AM, Mitchell AM, Pan X, Christian LM. Repetitive negative thinking during pregnancy and postpartum: Associations with mental health, inflammation, and breastfeeding. J Affect Disord. 2022 Sep 24;319:497-506.

Margaret Terveen, MD

Preszler J, Schriever M, Terveen M. Effects of the COVID-19 Pandemic on Breastfeeding Rates in a Single Tertiary Health Center. S D Med. 2022 Jun;75(6):263-267.

Tiffany Von Wald MD, MPH

Blaseg E, Von Wald T, Hansen KA. Vitamin D levels and human sperm DNA fragmentation: a prospective, cohort study. Basic Clin Androl. 2022 Sep 13;32(1):14. doi: 10.1186/s12610-022-00166-8.

Schriever, M, Flanagan, J and Von Wald T. Preimplantation Genetic Testing for Desired Pregnancy in Case of Parental Balanced Translocation. South Dakota Medicine October 2022, 496-498.

Louwagie EJ, Sturdevant DA, Hansen KA, Von Wald T. COVID-19 vaccine hesitancy in rural Midwestern infertility patients: a cross-sectional survey. South Dakota Medicine. 2022 Dec (accepted for publication)

Van Oosbree, A. and Von Wald T. Gestational Surrogacy and Ethical Considerations. South Dakota Medicine June, 2022, (accepted for publication)

Posters, Presentations & Abstracts

Matthew Barker, MD

Bormann, S, Marcellus T, DeLange A, Barker MA. Retrospective study of long-term surgical outcomes in patients who had a vaginal hysterectomy in conjunction with pelvic organ prolapse surgery. Poster Presentation at the American Urogynecologic Society-International Urogynecological Association Scientific Meeting 2022.

"Evaluation and Management of Urinary Incontinence for the PCP" Center for Family Medicine Noon Teaching Conference. Sioux Falls, SD.

"Female Sexual Function" Speaker at Kimberly Kaiser and Associates; Sexual Health Counselors.

"Optimization of Office Practice Management" AUGS Clinical Meeting. Santa Monica, CA.

"Pessary Management for Prolapse and Incontinence" AUGS Urogynecology for the Advanced Practice Provider Course. New Orleans, LA.

"Pessary Review" Roundtable Presenter AUGS Urogynecology for the Advanced Practice Provider Course. New Orleans, LA.

"Setting Up Your Own Practice: A Private Practice Information Leak." Speaker FPMRS/Urogynecology Conference at the Mayo Clinic. Rochester, MN.

"Urinary Incontinence and Prolapse" Speaker - SD Academy of Physician Assistants Conference. Sioux Falls, SD.

"Urogynecology" Speaker at Latino Community Health Fair. Sioux Falls, SD

Ashley Briggs, MD

Perinatal, Neonatal & Women's Health Conference: North & South Dakota Perinatal Quality Collaborative – HTN Initiative 3/2022

Kaitlyn Burns, MS

Samin A. Sajan, Carolyn Brown, Laura Davis-Keppen, Kaitlyn Burns, Erin Royer, Akanchha Kesari, Denise L. Perry, Ryan J. Taft. "Identification of a small duplication in the upstream noncoding enhancer of SOX9 in a family with 46,XX disorder of sexual development by clinical whole genome sequencing. Poster presented at: ASHG, October 25, 2022 Los Angeles, CA.

Jason Flanagan, MS

Anderson E, Johnson E, Hornberger K, Flanagan J, et al. Expanding the Genetic Etiology of Multiple Morphological Abnormalities of the Sperm Flagella: A case report of Two Novel DNAH1 variants. ARSM abstract 2022.

Rachel Rodell, MD

Paulson, RT, Rodell RL. Trends in antenatal late preterm steroids utilization and neonatal outcomes. South Dakota Perinatal Association Annual Meeting. Sept 2022.

David Starks, MD, MPH

Starks D, Rojas-Espallat L, Krie A, Meissner T, Leyland-Jones B, Lee J, Williams C. Patient reported outcomes and final results of Phase 1 evaluation of the safety and clinical activity of sapanisertib in combination with serabelisib and paclitaxel in patients with advanced ovarian, endometrial or breast cancer. 2022 SGO Annual Meeting, Phoenix, AZ. Abstract # 176

Starks, D. Screening, early detection, and prevention: an update in Gynecologic Cancer. AUGS APP Annual Meeting, New Orleans, LA, March 24-26. Invited Lecture.

Starks, D. Management of abnormal pelvic ultrasound. AUGS APP Annual Meeting, New Orleans, LA, March 24-26, 2022. Invited Lecture.

Gehrke A, Sun Y, Meissner T, Elsey R, Theisen L, Rojas-Espallat L, Starks D, Lee J, Williams C. Development of a molecular and clinical evidence-based algorithm for selecting optimal precision therapeutic strategy for patients with ovarian carcinoma. Society of Gynecologic Oncology Annual Meeting; March 18-21, 2022; Phoenix, AZ. Abstract.

Lin X, Aske J, Dale A, Koirala N, Thompson E, Fagerness M, Flier N, Davies P, Kehoe S, Agerton C, Gaster K, Rojas-Espallat L, Starks D, Sulaiman R, De P, Dey N. PD-L1 dominated Tumor-CAF-immune cell crosstalk of stromal microenvironment: Endometrial tumor vs. tumor-adjacent normal. 2022 AACR Annual Meeting, New Orleans, LA, April 8-13, 2022. Abstract #269

Richardson D, Fidalgo, J, Martin, A, Oaknin A, Hamilton, E, Hays J, Pothuri B, Papadopoulos, Taylor S, Huang M, Lee YC, Krivak T, Garcia V, Calvo E, Randall L, Starks D, Ross M, Duska L, Gao B, Poka R, Putiri E, Barrett J, DeMars L, Concin N. UPLIFT (ENGOT-ov67/GOG-3048) A Pivotal Cohort of the XMT-1536-1 Trial of Upifitumab Rilsodotin (XMT-1536; UpRi), a NaPI2b-directed Antibody-Drug Conjugate (ADC), in Platinum-Resistant Ovarian Cancer. IGCS 2022 Annual Global Meeting, September, 2022.

Rojas-Espallat L, Starks D, Krie A, Lee J, Williams C. Final Results of a Phase 1 Evaluation of Niraparib and Everolimus in Advanced Ovarian and Metastatic Breast Cancer. Society of Gynecologic Oncology Annual Meeting; March 18-21, 2022; Phoenix, AZ. Abstract 11927

Tseng J, Werner T, Hamilton, E, Hays, J, Duska, L, Doroshow D, Arend R, Starks D, Huang M, Papadopoulos K, DeMars L, Putiri E, Barnett J, Richardson D, Pothuri B. UPLIFT (ENGOT-ov67?GOG-3048): A Pivotal Cohort of Upifitumab Rilsodotin (XMT-1536;UpRI), a NaPI2b-directed Antibody Drug Conjugate (ADC) in Platinum-Resistant Ovarian Cancer. WAGO 2022 Annual Meeting, June 16-19, 2022

Williams CB, Starks D, Elsey R, Meissner T, Solomon BM, Albano M, Hantash F, Schadt E, Rojas-Espallat LA, Lee JH, Oh WK. Implementation of the Avera/Sema4 Oncology and Analytics Protocol (ASAP). ASCO 2022 Annual Meeting, June 3-7, 2022. Abstract TPS6605

Anna Strahm, PhD

Strahm, A.M., Mitchell, A., Pan, X., & Christian, L.M. (March, 2022). Repetitive Negative Thinking during Late Pregnancy through a Year Postpartum: associations with Mental Health, Inflammation and Breastfeeding. Poster presented at the American Psychosomatic Society Annual Meeting, Long Beach, CA.

Byron, G. S., Strahm, A.M., Bagne, A.G., Hilmert, C. J. (March 2022). Psychophysiological responses to a 200-person Trier social stress test audience: Using virtual reality to study the impact of audience size on males and females. Poster presented at the American Psychosomatic Society Annual Meeting, Long Beach, CA.

Ongoing Research, Grants & Projects

Daniel Flaherty, MD

Protocol: A phase 3 Study to Evaluate the Safety and Efficacy of Elagolix in Combination with Estradiol/ Norethindrone Acetate in Subjects with Moderate to Severe Endometriosis Associated Pain

Laurie Landeen, MD, MBA

Principal Investigator, Sanford Health, Pfizer Study C3671008 "Maternal RSV Vaccine Global Study" 2022-Present

Keith Miskimins, PhD

DoD Breast Cancer Research Program W81XWH2110023, Protection against chemotherapy adverse events by macromolecular superoxide dismutase mimetics in breast cancer. 01/15/2021 – 01/14/2024. \$683,144 total costs.

Anna Strahm, PhD

Population Health CoBRE Replacement Project (NIGMS)/ NIH Transdisciplinary approaches to American Indian and rural population health research - \$625,421 (2022 – 2023)
Maternal stress and blood sugar metabolism during pregnancy, and associations with adverse outcomes



Service

Committees and Assignments

Mark Ballard, MD

- Board of Directors – South Dakota State Medical Association
- Chair, SD Section – American College of Obstetrics and Gynecology

Matthew Barker, MD

- Chair - AUGS Advanced Practice Provider Committee
- Co-Chair - AUGS Annual Urogynecology for the Advanced Practice Provider Conference
- Member - AUGS Two-digit Subspecialty Code Task Force
- Member - American Urogynecologic Society (AUGS) Clinical Course Program Committee
- Member - AUGS Education Council Committee

Maria Bell, MD

- Chairman - Data Safety & Monitoring Committee for investigator-initiated research, Sanford
- Chairman - Sanford Cancer Committee American Cancer Society Advisory Board
- Coordinator - USD & UND Medical Students' Clinical Research Program, Sanford Health
- Medical Director - American Cancer Society Midwest Division, All Women Count
- Medical Director - Research and Development, Sanford Health
- Journal Reviewer - Gynecologic Oncology, International Journal of Gynecologic Cancer
- Principal Investigator - Gynecologic Oncology Group, Sanford Health
- Trustee - Augustana University Board
- Task Force - National Cancer Institute Cervical Cancer

Kevin Benson, MD, MS

- Board Member - Neuromodulation Working Group, Sanford Health Surgical Operations
- Co-Chair - International Continence Society
- Fellow Chairman - ACOG South Dakota
- Grant Reviewer - Society of Urodynamics, Female Pelvic Medicine and Urogenital Reconstruction
- Medical Advisory Board - Boston Scientific

- Medical Advisory Board - Nuvectra Neuromodulation Technologies
- Medical Associate Delegate - ACOG District VI Committee on International Medicine South Dakota
- Reviewer - International Urology and Nephrology, Neuromodulation and Urodynamics, Research and Reports in Urology, Rotary International, Urology Practice

Shana Bernhard, MD

- Board of Directors - Hospital Same Day Surgery Center

Michelle Booze, PhD

- Director - Board of Directors for Graduate Women in Science (GWIS)
- Faculty Advisor - SSOM DEI Working Group
- Reviewer - Fertility and Sterility, Fertility and Sterility Science, Journal of Assisted Reproduction and Genetics

Heather Brewer, MD

- Board Member – Monument Health Network Board
- Chairperson – OB/Ped Committee, Monument Health, Spearfish
- Committee Member – Quality & Safety, Monument Health, Spearfish
- Committee Member – Privilege & Review, Monument Health Network
- Medical Director – Family Health & Education Clinic
- Medical Director – Women & Children's Department, Monument Health, Spearfish

Ashley Briggs, MD

- Faculty Expert - NSDPQC Leadership Team
- Obstetrical Emergency Readiness Toolkit Work Group Member - Alliance for Innovation on Maternal Health & ACOG
- Member - Midwest SUPper Club
- Member - South Dakota Maternal Mortality Committee

Rochelle Christensen, MD

- Secretary – ACOG, SD District VI
- Member – Same Day Surgery Center

Kristi Eglund, MD

- Executive Director - Drug Discovery & Genetic Innovation, Sab Biotherapeutics

- Member - AACR-Women in Cancer Research
- Member - American Association for Cancer Research
- Vice-President – Membership, SD Chapter of Graduate Women In Science (GWIS)

Amy Eichfeld, MD

- Board of Directors - Yankton Medical Clinic, P.C.
- Secretary/Treasurer - South Dakota State Medical Association District VIII

Donald Evenson, PhD, HCLD, CC

- Ad Hoc Reviewer - National Institutes of Health, Canadian Medical Research Council
- Scientific Reviewer - Human Reproduction, Fertility and Sterility, Human Molecular Reproduction, Chromosoma, Biology of Reproduction, Journal of Andrology, Experimental Cell Research, Journal of Animal Science, Journal of Histochemistry and Cytochemistry, Cell and Tissue Kinetics, Theriogenology, Radiation Research, Reproductive Toxicology, Reproductive Sciences

Daniel Flaherty, MD

- President - Watertown District Medical Society, SDSMA

Jason Flanagan, MS

- Committee Member - Expert Media Panel, NSGC
- Reviewer - Journal of Genetic Counseling, SD Medical Journal
- SD Medical Board for Genetic Counselors

Keith Hansen, MD

- Board of Directors “at large” - SDSMA
- Co-Chair - PROLOG Reproductive Endocrinology and infertility 9th ed., ACOG
- Commissioner - South Dakota Crime Victims Compensation Committee
- Editor - South Dakota Medicine
- Editorial Board - Journal of Pediatric and Adolescent Gynecology, Journal of Ultrasound in Medicine
- Executive Committee - Sanford Women’s Health
- Executive Committee – USD SSOM
- President-Elect - SDSMA PAC
- Reviewer - Obstetrics and Gynecology, JPAG, Fertility and Sterility, Journal of Reproductive Immunology, Journal Reproductive Medicine, Expert Reviews OB/GYN, Gyn Surgery, The Female Patient, Hum Reproduction, Archive - Gynecology and Obstetrics

- SD Carrier Advisory Committee - Medicare and Medicaid Services
- Vice Chair - SDSMA, PAC Board of Directors

Brenda Kallemeyn, MD

- Member - Peer Review Committee, Avera McKennan
- Vice Chief of Staff - Avera McKennan

Amy Kelley, MD

- Legislative Chair - South Dakota American College of Obstetricians & Gynecologists

Laurie Landeen, MD, MBA

- Appointed to SD Board of Medical and Osteopathic Examiners
- Clerkship Director – USD SSOM
- Fellow - American College of Obstetricians and Gynecologists
- Member - South Dakota State Medical Association
- Member – AIUM

Kimberlee McKay, MD

- Board Member - SD Certified Professional Midwife
- Lead Ob/Gyn - Avera Health Peer Review Committee
- Member - SD Maternal Mortality Task Force & Review Committee
- Quality and Safety Officer - ACOG Section VI SD Section

Rachel Rodel, MD

- Chair - Student Financial Aid Committee
- Committee Member - South Dakota Maternal Mortality Review
- Course Facilitator and Debriefing - Critical Care in Obstetrics Conference
- Faculty Mentor - Women in Medicine and Science
- Founder - Society for Maternal-Fetal Medicine, Rural Maternal-Fetal Medicine Interest Group
- Member - Sanford Physician Compensation Committee
- Member - Society for Maternal-Fetal Medicine, Coding Committee
- Vice Chair - Society for Maternal-Fetal Medicine, Communications Committee

Erica Schipper, MD

- Secretary / Treasurer - SDSMA District VII

Delf Schmidt-Grimminger, MD, MBA

- Affiliate Member - Cancer Prevention and Control Program, University of Nebraska
- Council Member - Dept. of Health & Human Services Office of Minority Health
- Grand Rounds Taskforce - University of South Dakota School of Medicine
- Member - American Cancer Society, Cancer Connect group & South Dakota
- Member - Mountain States Regional Health Equity Council
- Member - Northern Plains Cancer Coalition Committee

Annie Siewert, MD

- Coordinator - Perinatal Collaborative, Avera McKennan
- Council Member - Women's Ops, Avera McKennan
- Member - Peer Review Committee, Avera McKennan

Anna Strahm, PhD

- Co-Chair - Society for Behavioral Medicine, Women's Health Special Interest Group
- Abstract Reviewer - American Psychosomatic Society: Annual Meeting 2022

Margaret Terveen, MD

- Member – Anesthesia Committee, SD Rural OB Access, Avera Telehealth

Molly Uhing, MD

- Chair - Robotics committee, Avera McKennan
- Member - OB Logistics Committee, Avera McKennan
- Member - OR Committee, Avera McKennan
- Women's Center Leadership Council – Avera McKennan

Tiffany Von Wald, MD, MPH

- Committee Member - SD Board of Medicine, Genetic Counseling Advisory Board
- P&T Committee – USD SSOM
- SPCC Committee – USD SSOM
- Ethics Section Committee - USDSM

Awards

Matthew Barker, MD

Mentorship Award - USD Sanford School of Medicine, Class of 2022

Heather Brewer, MD

Distinguished Community Leader 2022 - Monument Heath

Keith Hansen, MD

Best Doctors in America

Anna Strahm, PhD -

NIH - Reckitt/Mead Johnson Nutrition Young Investigator



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