

SAINT GIANNA SCHOOL OF HEALTH SCIENCES

Michael G. Parker Research & Scholarship Colloquium

Friday, April 26, 2024

University of Mary Campus
Bismarck, ND



UNIVERSITY
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Michael G. Parker Research & Scholarship Colloquium

Please join us to celebrate the Scholarship of Discovery as our students present new knowledge that they generated in their respective fields of study.

Program Schedule

— **8:00 AM** —

Founders Hall, Lumen Vitae University Center

Welcome

Dr. Mary Dockter, Dean, Saint Gianna School of Health Sciences

Opening Prayer

Robyn Rentschler, DNP Nursing Organizational Leadership

Special Message and Congratulations

Monsignor James P. Shea, President

— **8:30 AM – 2:30 PM** —

Locations Designated by Group

Platform Presentations

Individual and Student Groups

— **11:15 AM – 11:45 AM** —

Founders Hall Foyer, Lumen Vitae University Center

Unopposed Poster Presentations

Exercise Science, Graduate Education Students

— **11:45 AM – 12:30 PM** —

Lunch Break

Platform Presentations

8:30 AM

Founders Hall (Lumen Vitae University Center)

Ethical Considerations of CRISPR–Cas9–Mediated Oncotherapies

Blaise Boyle (MS Bioethics)

Implementing a DSME Toolkit for Type 2 Diabetic Patients in a Rural Primary Care Clinic: An Evidence–Based Project

Breah Christianson, Randi Wicklund (DNP Family Nurse Practitioner)

Impact of Student Staffed Exercise Clinic on Satisfactory Measures Among Participants with Chronic Conditions

Kameron Selvig, MacKenna Arnold, Paige Lagge (Exercise Science)

Arno Gustin Hall (Harold Miller Center)

Physical Therapy Intervention for a Patient with Musculoskeletal and Neurological Deficits as a Result of Chronic Alcoholism: A Case Report

Madison Ferderer (Doctor of Physical Therapy)

When 30 Days of Addiction Rehab is Not Enough

Fr. Stephen Gemme (MS Bioethics)

The Use and Effectiveness of Ankle Injury Prevention Programs: Clinicians Perspective

Taylor Bergquist, Shawnee Hansen, Andrew Lalum (MS Athletic Training)

Hamm 101 (Hamm School of Engineering Lower Level)

Functional Neurologic Disorder in the Acute Care Setting: A Case Report

Anthony McFadden (Doctor of Physical Therapy)

Investigation of a Relationship Between Classifications of Autism Spectrum Disorder and Sensory Processing

McKenna Adolph, Rebekah Bell, Sophia Frear, Madison Wasson (Doctor of Occupational Therapy)

Impact of Interprofessional and Intraprofessional Fieldwork Experiences on Exercise Science Student Outcomes

Elise Hintz (MS Clinical Exercise Physiology)

Heskett Hall (Clairmont Center)

Benefits of Exercise Pre, During, and Post Chemotherapy and the Effects on Cardiotoxicity Biomarkers

Kaitlynn Roberts (MS Clinical Exercise Physiology)

Impacting Wait Time Transparency at a Suburban Urgent Care Facility

Kwame Acheampong, Rebecca Anderson, Carter Mosher (DNP Family Nurse Practitioner)

Respecting Life in Its Generation: Ethical Considerations Regarding the Intrauterine Insemination (IUI) Fertility Method

Anna Jace (MS Bioethics)

Simmons Center (Casey Center)

Therapists' Perception on the Use of Co-treatment within an Interdisciplinary Team: A Phenomenological Study

Megan Cullinane, Anna Keller, Danielle Steinley, Alexis Tibor (Doctor of Occupational Therapy)

Impacting Provider Confidence Regarding Skin Cancer Screening in a Primary Care Clinic: An Evidence-Based Practice Project

Hannah Krauter, Emily Lund, Paige Upham (DNP Family Nurse Practitioner)

Effects of Consistent Summer Weight Training on Injury Incidence Among Male and Female High School Basketball Athletes

Shantelle Rule (MS Kinesiology)

9:30 AM

Founders Hall (Lumen Vitae University Center)

The Ethics of Using Antipsychotic Medication to Modify the Behavior of Dementia Patients

Sarah Kennedy (MS Bioethics)

Physical Therapy Management of Suspected Lindsay-Hemenway Syndrome: A Clinical Case Report

Bret Papas (Doctor of Physical Therapy)

Efficacy Analysis of the Impacts from Program Accreditation for the Clinical Exercise Physiology Profession

Leonardo Bentivoglio (MS Clinical Exercise Physiology)

Arno Gustin Hall (Harold Miller Center)

Patient-Centered Pediatric Oncology Education, Resources, and Tools at Diagnosis: An Evidence-Based Improvement Project

Davina Carr, Jessica Horner, Nate McDonough (DNP Family Nurse Practitioner)

Effects of In-Season Dynamic Effort Resistance Training on Back Squat One Rep Max in Collegiate Wrestlers

Kyler Harris, Matthew Kelley, Derek Schon, Matthew Strecker (Biomechanics/MS Kinesiology)

The Administration of Pre-Exposure Prophylaxis (PrEP) for HIV Prevention: A Moral Imperative or Moral Dilemma?

Fr. Christopher Awiliba (MS Bioethics)

Hamm 101 (Hamm School of Engineering Lower Level)

Relationship Between Accreditation for Clinical Exercise Physiology (CEP) Master's Programs and ACSM-CEP Exam Pass Rates

Lindsey Larson (MS Clinical Exercise Physiology)

Multiple Cerebrovascular Accidents Due to Varicella Zoster Virus Vasculitis: A Case Study

Autumne Haskell (Doctor of Physical Therapy)

A Prone Forearm Plank: Performance and Hemodynamic Response in Male and Female Adults

Macee Hadley, Elizabeth Olsen, Rachael Schepp, Mia Tickel, Preston Walter (Exercise Science)

Heskett Hall (Clairmont Center)

Implementation of a Social Determinants of Health Screening Tool to Support Community Referrals in a Rural Obstetrics Clinic

Cassie Bommersbach, Johanna Christensen (DNP Family Nurse Practitioner)

Healing Hooves: Caregivers' Perspectives on the Impacts of Therapeutic Horse Riding

Mercedes Flores, Regan Hall, Hanna Schaible, Brenna Skulley (Doctor of Occupational Therapy)

Burnout Within Athletic Training

Natosha Sand, Sage Brooks, Tyler Huston-Stevens (MS Athletic Training)

Simmons Center (Casey Center)

Spirituality and Occupational Therapy: Perspectives on Incorporating Spirituality in Practice

David Hanson, Peyton Klein, Kierra Krause, Grace Olson, Katelin Revier (Doctor of Occupational Therapy)

Unplugged: Impacting Adolescent Screen Time

Mary Joy Derla, Tonia Lofgren (DNP Family Nurse Practitioner)

Physical Therapy Intervention for a Child with Encopresis and Behavioral Influence: A Case Report

Diana Nathe (Doctor of Physical Therapy)

10:30 AM

Founders Hall (Lumen Vitae University Center)

Implementation of Universal Mental Health Screening to Support Identification and Treatment of Depression in an Urban Underserved Clinic

Lachelle Collins, Mackenzie Irwin, Lauren Tollefson (DNP Family Nurse Practitioner)

Impact of Occupational and Physical Therapy Collaborative Intervention Strategies Addressing Chronic Pain: A Pilot Study

Alexandra Crain, Brynne Hauer, Hanna Johnson, Ashlyn Kessel, Laura Krom, Alli McCoy, Shaylin Sundby, Gabrielle Volk (Doctor of Occupational Therapy and Doctor of Physical Therapy)

Human Assembly Lines: Addressing the Ethical Risk of Cerebral Assembloids

Wyatt Parks (MS Bioethics)

Arno Gustin Hall (Harold Miller Center)

Impact of a Student-Staffed Exercise Clinic on the Qualitative and Quantitative Outcomes of Clinic Participants with Chronic Conditions

Ariel Kern (MS Clinical Exercise Physiology)

Predictors of Prone Forearm Plank Performance in Healthy Adults

Sydney Binstock, Karley Gudajtes, Mabel Larson, Leo Mushinsky, Emily Needham, Natalee Sample (Exercise Science)

Enhancing Pediatric Providers' Knowledge of Attention-Deficit/Hyperactivity Disorder Through Digital Health Technology: An Evidence-Based Project

Rhonda Bieber, Elizabeth Eads, Tanner Stavn (DNP Family Nurse Practitioner)

Heskett Hall (Clairmont Center)

Examining the Impact of a Sensory-Motor Gym on Emotional and Behavioral Regulation

Hannah Jacobson, Isabella Nankivel, Gabrielle Renelt, Alexis Tschetter, Sarah Zuelzke (Doctor of Occupational Therapy)

Does Information Related to the Menstrual Cycle in the N620 Curriculum Impact Student's Knowledge of the Role of the Menstrual Cycle in a Woman's Overall Health?

Theresa Vyner, Jennifer Zettl (DNP Family Nurse Practitioner)

Inpatient Rehabilitation for a Patient with Underlying Fear of Falling Following Complications with Urosepsis: A Case Study

Brett Nunziato (Doctor of Physical Therapy)

Simmons Center (Casey Center)

The Community Pharmacist's Role in Safeguarding Against Over-the-Counter Medication Abuse

Lorren Postl (MS Bioethics)

Exploring Beyond the Immediate Neurophysiological Effects using Pain Pressure Threshold Following Lumbar Spinal Manipulation in Asymptomatic Individuals: A Randomized Controlled Trial

Colton Swanson, Rudy Aguilar, Rylee Orteza, Saydee Wolff (Doctor of Physical Therapy)

The Difference in Grip Strength Between Those Who Use American Sign Language and Those Who Do Not Use American Sign Language

Clare Volkmuth, Kayleen Alexander (MS Athletic Training)

11:15 AM – 11:45 AM

Founders Hall Foyer, Lumen Vitae University Center

Poster Presentations Unopposed

Exercise Science, Graduate Education Students

11:45 AM – 12:30 PM

Lunch Break

12:30 PM

Arno Gustin Hall (Harold Miller Center)

An Overview of Ethical Issues Related to FDA-Approved Gene Therapies for Sickle Cell Disease: Casgevy and Lyfgenia

Lydia Schaecher (MS Bioethics)

Identifying Physical Therapists' Attitudes, Beliefs, and Barriers Towards Diagnostic Imaging Referral: A Mixed-Methods Study

Kendra Karl, Mattias Stich, Christopher Dean, Sara Lawson (Doctor of Physical Therapy)

Impact of Vaping on Pulmonary Function and Blood Pressure in Physically Active Young Adults

Kaden Auch, Cheyenne Clinton, Morgan Coquette, Sarah Martin, Ryleigh Wacha, Taylor Wentz (Exercise Science)

Heskett Hall (Clairmont Center)

Effect of High and Low Intensity Resistance Training on Quality of Life, Muscular Strength, and Functional Outcomes after Stroke

Brooke Knott (MS Clinical Exercise Physiology)

Facilitating Team-Based Nursing to Impact Nursing Retention on a Medical-Surgical Unit

Lisa R. Johnson (DNP Nursing Organizational Leadership)

Ready, Set, Grow: Assessing Self-Regulation in Elementary Students

Keary Aune, Kyle Cacho, Brooke McClure, Isabel Milich (Doctor of Occupational Therapy)

Simmons Center (Casey Center)

The Development of Occupational Therapy Practice Skills During a Level I Fieldwork in Peru

Emily Bicknell, Hannah Fladeland, Elise Lakin, Rose Soori, Jessica Tastad (Doctor of Occupational Therapy)

Convergent Validity of Dual Task Timed Up and Go Performance and Activity Balance Confidence Scale and Predictive Value of Six-Month Fall Risk

Jake Glass, Grace Hartman, Zachary Jensen, Sophia Jung (Doctor of Physical Therapy)

Empowering Faculty to Impact Nursing Student Success through the Implementation of a Nursing Student Retention Toolkit

Robyn Rentschler, Melissa Moser, Tracy Bina (DNP Nursing Organizational Leadership)

1:30 PM

Arno Gustin Hall (Harold Miller Center)

Faculty Advising for Underrepresented Minority Student Populations: Implementation of an Advising Toolkit Utilizing Jeffreys' NURS Model

Sonya Anderson, Kristopher Gillespie (DNP Nursing Organizational Leadership)

Occupational Therapy and Health Literacy: A Pilot Survey

Allie Hughes, Nicole Joyce, W. Tanner Sitton (Doctor of Occupational Therapy)

Healthcare in High-Risk Pregnancies: The Ethics of Treating Fetal-Maternal Conflict

Sister Maris Stella (MS Bioethics)

Heskett Hall (Clairmont Center)

Physical Therapy Rehabilitation for ACL-Reconstruction Through Retro Exercise in Conjunction with Spanish Squats: A Case Report

Keaton Boehm (Doctor of Physical Therapy)

Impact of Interprofessional and Single-discipline Fieldwork Experiences on Exercise Science Student Outcomes

Nicole Selle (Exercise Science)

Impacting Patient Flow through Implementation of a Discharge Lounge at Sanford Medical Center Fargo: An Evidence Based Practice Project

Gretchen Amundson, Jennifer Olson, Kate Utgaard (MSN Nursing Leadership & Management)

Simmons Center (Casey Center)

Dignity Beyond Chromosomes: Trisomy 21 and Organ Transplantation Eligibility

Jane Francis Thornton (MS Bioethics)

The Impact of Certified Nursing Assistant Experience on the Educational Experience of Senior Nursing Students

Kelsey Norstog (MSN Nurse Educator)

Factors Which Influence Physical Therapists' Decision to Practice in Geriatrics

Mckenna Weiler, Benjamin Giese, Dylan Obrigewitch, Jessica Schafer (Doctor of Physical Therapy)

Utilizing the Risk Analysis Index in Perioperative Patients: An Evidence Based Practice Project

Brianna Denning, Katie Theisen (MSN/MBA in Healthcare Administration)

Poster Titles

Posters are located in the Founders Hall Foyer in the Lumen Vitae University Center and are available from 8:00 AM – 2:30 PM, with unopposed hours between 11:15 AM – 11:45 AM.

Exercise Science Students

Impact of Vaping on Pulmonary Function and Blood Pressure in Physically Active Young Adults

Kaden Auch, Cheyenne Clinton, Morgan Coquette, Sarah Martin, Ryleigh Wach, Taylor Wentz (Exercise Science)

Graduate Education Students

Titles/Authors available on posters

Continuing education contact hours will be awarded to Occupational Therapy and Physical Therapy participants. Application to the North Dakota Board of Nursing has been submitted for 4.5 nursing contact hours.



The Michael G. Parker Research and Scholarship Colloquium Committee would like to thank the University of Mary's Kappa Upsilon Chapter of Sigma Theta Tau National Honor Society for helping make this event successful. Kappa Upsilon members have volunteered time to assist with the event.