



7th Annual Research Symposium

April 3, 2024

THE HERBERT H. &
GRACE A. DOW COLLEGE OF
**HEALTH
PROFESSIONS**
CENTRAL MICHIGAN
UNIVERSITY

SYMPOSIUM PROGRAM

**indicates presenting authors*

DOCTOR IN PHYSICAL THERAPY PROGRAM

- Poster #1** **Inpatient Physical Therapy For a 78-Year-Old Female Following a Cerebral Vascular Accident and Fall: A Retrospective Case Report**
Logan Reder, Rochelle Kopka*
- Poster #2** **A 54-year-old Female with Right Shoulder Pain and Right Hand Paresthesia Secondary to a Lifting Incident with a History of Cervical Disc Herniations**
Dylan Tasson, Rochelle Kopka*
- Poster #3** **Simulated Escape Room Influence on Student Physical Therapists' Perceptions of Clinical Reasoning**
Jessica L. Sullivan*, Karen E. H. Grossnickle, Elisabeth S. Moore, Briyana Morrell
- Poster #4** **Doctoral physical therapy students' perception and confidence following multimodal approach to acute care curriculum**
Emma Polski*, McKenzie Thompson*
- Poster #5** **Guided Motor Imagery Intervention for a Professional Flutist with Embouchure Dystonia: Riding a Backwards Bicycle**
Karen E.H. Grossnickle*
- Poster #6** **Underrepresented Minority Physical Therapy Occupation Interest and Academic Success**
Naya Haynes*, Emily Schubbe
- Poster #7** **Effects of wearing the NewGait rehabilitative device on walking gait in individuals with Parkinson's Disease**
Brooke N. Ray*, Joseph E. Langenderfer, Ksenia I. Ustinova
- Poster #8** **Improving Self-Efficacy in Managing Parkinson's Disease: The Parkinson's Disease Health Marker Report Card**
Brooke Alexander*, LaChane' Ballard, Megan Ready, Alexandra Vasile, Chin-I Cheng Jamie Haines
- Poster #9** **Comparing the effectiveness of manual and self-applied inferior glenohumeral joint mobilizations using ultrasound imaging**
Raegan Hickok, Catherine Stump, Sydney Wynne*, John M Andraka

Abstract Booklet



EXERCISE SCIENCE PROGRAM

- Poster #10** **The Effects of Acute Caffeine Supplementation on Pitching Accuracy and Velocity**
Garrett Navarra*, Daniel Platt, Paul O'Connor
- Poster #11** **The Effect of Plyometric Exercise on Change of Direction Performance**
Andrea Willsey*, Jessica Hill, Nolan Coon, Nicole Dunham, Naveen Sharma, Paul O'Connor
- Poster #12** **The Effect of Caffeine on Reaction Time In Collegiate Sprinters out of Starting Blocks**
Olivia Hankey*, Anya Turner, Grace Williamson, Paul O'Connor
- Poster #13** **An analysis of exercise advice and habits during pregnancy: What do women hear and do?**
Alexus L. Houk*, Hannah E. Ewing, William A. Saltarelli, Rachael K. Nelson
- Poster #14** **Influence of incremental increases in accumulated steps/day on prevalence of metabolic syndrome in overweight vs obese individuals**
Zachary Houslander*, Allyson O'Grady, William Saltarelli, Rachael Nelson
- Poster #15** **Body temperature responses to exertional heat stress and active cooling**
Christiana Donkor*, Rowan Fitzpatrick, Sarah Daniel, Marian Avila, Michael Platt, Micah Zuhl
- Poster #16** **Osmolarity of commercially available hydration drink mixes**
Kaleigh Hendricks*, Christiana Donkor, Micah Zuhl
- Poster #17** **The effect of physical activity prior to group therapy for substance use disorders on mood and mental health**
Katherine Sunday*, Valerie Maestas, Micah Zuhl
- Poster #18** **Effect of Breaking up Prolonged Sitting with Intermittent Stretching on Endothelial Function**
Isabella Andreski*, Matthew Weber, Haley Smith, Nicholas Kruse
- Poster #19** **Influence of Passive Stretching on Vasoconstrictor Responsiveness in Human Contracting Muscle**
Carolina Dancu*, Haley Smith, Isabella Andreski, Matthew Weber, Nicholas Kruse
- Poster #20** **Effect of Prolonged Sitting on Skeletal Muscle Blood Flow and Functional Sympatholysis**
Matthew Weber*, Isabella Andreski, Haley Smith, Nicholas Kruse
- Poster #21** **Early Physical Therapy Intervention in Left Hemiplegic Cerebral Palsy: A Case Study**
Karli Gasta*, Alexa Michels, Julie Jacoby, Roop Jayaraman

Abstract Booklet



NUTRITION AND DIETETICS PROGRAM

- Poster #22** **Examining the Impact of Social Media Usage on Body Image Perception among College Students at Central Michigan University**
Najat Yahia, Julie Jacoby, Chin-I Cheng, Lixin Li

PHYSICIAN ASSISTANT PROGRAM

- Poster #23** **Experience and Perception of Chat Generative Pre-Trained Transformer (ChatGPT) as an assistant learning tool among First year Physician Assistant Students**
Audrey Shaw, Najat Yahia, Lixin Li
- Poster #24** **Identify Opportunities to Improve Physician Assistant (PA) Curriculum to Enhance Research within the PA Profession**
Erica Parks, Lixin Li*
- Poster #25** **Evaluating the Impact of an Evidence-Based-Medicine Course on Enhancing Student Research Skills, Confidence and Shaping Future Research in the Physician Assistant Profession.**
Erica Park, Lixin Li*
- Poster #26** **Oral Ulceration induced by Anti-psychotic drug: A rare side-effect of Aripiprazole.**
Angelyn Danowski*, Lixin Li
- Poster #27** **A Complex Presentation of L1 cell adhesion molecule (L1CAM) Gene Mutation in a 9-Month-Old Male.**
Abigail Meesseman*, Lixin Li

AUDIOLOGY PROGRAM

- Poster #28** **Comparison of Hearing Devices: OTCs, PSAPs and Prescription Hearing aids**
Yunfang Zheng, Elyse Kady*
- Poster #29** **Combined effects of high-frequency hearing loss, fitting formula, and venting on real ear sound level and patient perception**
Amanda Brown*, Yunfang Zheng, Paige Hunter
- Poster #30** **Fitting Formula Effects on Hearing Aid Fitting for Different Degrees and Configurations of Hearing Losses**
Yunfang, Zheng, Yara Ayoub*
- Poster #31** **Comparison of over-the-counter hearing aid fitting between self-fit and professional-fit**
Yunfang Zheng*, Jennifer Gozdor
- Poster #32** **Hearing Loss and Sickle Cell Disease in the Middle East: A Closer Look at Beta Thalassemia**
Jana Al Jurdi*, M. Dawn Nelson

Abstract Booklet



SPEECH-LANGUAGE PATHOLOGY PROGRAM

Poster #33 **What's in a Written Word?**
Katie Squires*

HEALTH ADMINISTRATION PROGRAM

Video #34 **Social Media and Health: Unveiling the Interdisciplinary Research Landscape.**
Hannah Johnston*, Rodina Bizri-Baryak, Elina Erzikova, Lana Ivanitskaya

Poster #35 **Electronic Health Records: the Wonders and the Worries**
Mark Cwiek*, George Kikano, José Brown, Vincent Maher, Brenden Roth, Ferdousi Zaman

Poster #37 **An Interactive Interface for Age-Adjusted Stroke Risk Estimation**
Dimitrios Zikos, Shravan Kumar*

PUBLIC HEALTH PROGRAM

Poster #38 **Public Health in the Shadows: Tracing Darknet Drug Trends**
Sergey Soshnikov*

Poster #39 **Alcohol Use and Depression in Sexually Minoritized College Students**
Marlowe Huff*, Morgan Chatterson, Kacie Allen, Rebecca Terpening, Abriel Allen, Hurlette Reed

Poster #40 **Risk Factors Related to Childhood Obesity in the USA**
Soumitra Palit*, Tahia Sufyani*, Joseph Inungu, Chin-I Cheng, Emmanuel Naatei

PHYSICAL EDUCATION AND SPORT PROGRAMS

Poster #41 **The Changing Landscape of Higher Education: Different Types of Learners, Their Expectations, and Strategies to Increase Engagement**
Marcia Mackey*

Abstract Booklet

