Department of Physical Therapy & Rehabilitation Science PhD Program

**Thursday, February 3**

8:00 am – 10:00 am
Platform Presentations

**Objective Measurement of Perceived Walking Challenge Differentiates between Home and Community Ambulation Levels Post-Stroke**

Speaker: Kanika Bansal, PT, MPT, PhD
Authors: Kanika Bansal, PT, MPT, PhD; Catarina Oliveira Sousa, PT; Hillary Plummer; Brittany Andrade; Aaron Hewus, SPT; Naoko Kono; Wendy Mack; Shawn Roll; Lori Michener, PT, ATC, PhD, FAPTA

1:00 pm – 3:00 pm
Poster Presentations

**Is Seated Trunk Control Associated with Walking Function in Chronic Incomplete Spinal Cord Injury?**

Speaker: Tinuade Olarewaju, PT
Authors: Tinuade Olarewaju, PT; Kelly Ann Hawkins, PT, DPT, PhD; Gina Brunetti, PT, DPT; Hannah Snyder; Emily Fox, PT, DPT, PhD

**Effects of Intramuscular Stimulation on Diaphragm Activation and Respiratory Function Following Acute Spinal Cord Injury**

Speaker: Kathryn L. Cavka, PT, DPT
Authors: Kathryn L. Cavka, PT, DPT; Alicia K. Vose, PhD, CCC-SLP; Clayton Wauneka, PhD; Paul Freeborn; David Fuller; Amy Redding; Geneva Tonuzi; Brian Yorkgitis; Marie Crandall; Jeanette Zhang; Emily Fox, PT, DPT, PhD

**Feasibility of Transcutaneous Spinal Direct Current Stimulation Combined with Locomotor Training after Spinal Cord Injury**

Speaker: Kelly Ann Hawkins, PT, DPT, PhD
Authors: Kelly Ann Hawkins, PT, DPT, PhD; Louis Anthony DeMark, PT, DPT; Hannah Snyder, ACSM-EP; Arian Vistamehr; Christy Conroy, PT; Clayton Wauneka, PhD; Geneva Tonuzi; David Fuller; Emily Fox, PT, DPT, PhD
**Genetic Biomarkers of Therapeutic Acute Intermittent Hypoxia-Induced Respiratory Motor Plasticity in Humans**

Speaker: **Jayakrishnan Nair, PT, PhD**  
Authors: **Jayakrishnan Nair, PT, PhD**, Joseph Frank Welch, Patrick Argento, Carter Lurk, Tingting Hou, Qing Lu, **Gordon S. Mitchell, PhD** and **Emily Fox, PT, DPT, PhD**

**Graded Exposure Weight Bearing Exercises Demonstrates Increased Bone Density in Complex Regional Pain Syndrome Patient**

Speaker: **Christopher Fuller, PT, DPT**  
Authors: **Christopher Fuller, PT, DPT; Jason M. Beneciuk, PT, DPT, MPH, PhD; Sabrina Wang, PT, DPT, OTR/L; Nicholas Thomas LeBlond, PT, DPT, AT**

**6:00 pm – 8:00 pm**  
**Alumni and Friends Reception**  
San Antonio Marriott Riverwalk  
River Terrace Room  
889 East Market Street  
San Antonio, Texas 78205

**Friday, February 4**

**10:40 am – 11:00 am**  
**Platform Presentations**

**First-Time Musculoskeletal Injury Does Not Change Pain Catastrophizing, Kinesiophobia or Fear in College Softball Players**

Speaker: **Giorgio Zeppieri, PT**  
Authors: **Giorgio Zeppieri, PT**, Michelle L Bruner, Katie M Davis, Michael W. Moser, MD, Kevin W Farmer, MD and **Federico Pozzi, PT, PhD**
1:00 pm – 3:00 pm
Poster Presentations

**Role of Telehealth in Enhancing Exercise Tolerance in a Patient with COPD. A Case Report.**

Speaker: Shakeel Ahmed, PT, PhD  
Authors: Shakeel Ahmed, PT, PhD, Krzystof Bujak, Shelby Mahaz, SPT and Kim Dunleavy, PT, PhD

**How Thorough Is the Reporting of Resistance Exercise in Trials for Chronic Low Back Pain?**

Speaker: Kevin L. MacPherson, PT, DPT  
Authors: Lindsey Taylor Hughey, PT, DPT, Kevin L. MacPherson, PT, DPT and Jodi Lynn Young, PT, DPT

**Concurrent Validity of the 3-Meter Backward Walk Test with Other Mobility Outcomes in Individuals Post-Stroke**

Speaker: Louis Anthony DeMark, PT, DPT  
Authors: Louis Anthony DeMark, PT, DPT, Emily Fox, PT, DPT, PhD, Mindi Manes, PhD, Kayla Blunt and Dorian Kay Rose, PT, PhD

**The Influence of Afo Use on Prefrontal Activation during Complex Walking Tasks in Adults Post-Stroke**

Speaker: Christy L. Conroy, PT  
Authors: Christy L. Conroy, PT, Clayton Wauneka, PhD, Arian Vistamehr, Emily Fox, PT, DPT, PhD and David Clark

**Can You Change Pain Sensitivity with Fluctuating Oxygenation (FLO)?**

Speaker: Priyanka Rana, PT, MPT  
Authors: Priyanka Rana, PT, MPT, Taylor Angeli Marie Maderazo, SPT, Shakeel Ahmed, PT, PhD and Mark Donald Bishop, PT, PhD

**A Physical Therapist-Led Community Exercise Program to Counter Post-Stroke Fatigue**

Speaker: Dorian Kay Rose, PT, PhD  
Authors: Dorian Kay Rose, PT, PhD and Barbara Kellerman Smith, PT, PhD
How Do Expectations Affect Pain Sensitivity Changes during Massage?

Speaker: Abigail Wilson, PT, DPT, PhD
Authors: Abigail Wilson, PT, DPT, PhD, Joseph L. Riley III, PhD, Mark Donald Bishop, PT, PhD, FAPTA, Jason M. Beneciuk, PT, DPT, MPH, PhD, Yenisel Cruz-Almeida, MSPH, PhD and Joel Eric Bialosky, PT, PhD

Saturday, February 5
11:00 am – 1:00 pm
Education Sessions

Trunk Strength Is Associated with Maximal Respiratory Pressure Generation in Individuals with Spinal Cord Injury

Speaker: Gina Brunetti, PT, DPT
Authors: Gina Brunetti, PT, DPT, Kelly Ann Hawkins, PT, DPT, PhD, Kathryn L. Cavka, PT, DPT, Hannah Snyder, Tinuade Olarewaju, PT and Emily Fox, PT, DPT, PhD

Locomotor Training Using Adaptive Robotics in Adults with Spinal Cord Injury: Preliminary Feasibility and Outcomes

Speaker: Louis Anthony DeMark, PT, DPT
Authors: Louis Anthony DeMark, PT, DPT, Jessica Dunn, Meghan Kettes, Hannah Snyder, Gina Brunetti, PT, DPT, Kathryn L. Cavka, PT, DPT, Christy L. Conroy, PT, Clayton Wauneka, PhD, Bob McIver, Geneva Tonuzi and Emily Jane Fox, PT, DPT, PhD

1:00 pm – 3:00 pm
Poster Sessions

The Effects of the COVID-19 Lockdown on Clinical Measures in Division 1 College Softball Players

Speaker: Giorgio Zeppieri, PT
Authors: Giorgio Zeppieri, PT, Brushwood Ashlyn, Marissa Pazik, Katie M Davis, Michael W. Moser, MD, Kevin W Farmer, MD and Federico Pozzi, PT, PhD
3:00 pm – 5:00 pm
Eugene Michels Research Forum

Eugene Michels Research Forum: Psychological Factors in Physical Therapy, Are We Encroaching Boundaries of Practice?

Speakers: Shailesh Shashikant Kantak, PT, Jason M. Beneciuk, PT, DPT, MPH, PhD, Edelle Carmen Field-Fote, PT, PhD, FAPTA, Steven Z. George, PT, PhD, FAPTA, Darcy Schwartz Reisman, PT, PhD, FAPTA and Julie M. Fritz, PT, PhD, FAPTA

3:00 pm – 5:00 pm
Platform Sessions

Rehabilitation Following Subscapularis Repair with Biceps Tenodesis in an Adolescent Overhead Athlete: A Case Report

Speaker: Marcus Allezo Owens, PT, DPT
Authors: Marcus Allezo Owens, PT, DPT, Giorgio Zeppieri, PT, Ryan Roach and Federico Pozzi, PT, PhD