UAB Center for Disability Health and Rehabilitation Science

2nd Annual Symposium

“Optimizing Health, Function and Participation in Children and Adults with Disabilities”

Friday, May 18th, 2018
8:30 am—4:15 pm
DoubleTree Hotel

David Brown, PT, PhD, Co-Director
James Rimmer, PhD, Co-Director

www.dhars/uab.edu
AGENDA

8:30 – 9:00 am  Registration (light breakfast provided)

9:00 – 9:15 am  Welcome and Introduction
Harold Jones, Dean of UAB School of Health Professions
Jeff Underwood, President & CEO of Lakeshore Foundation

9:30 – 10:30 am  Keynote I
Diane Damiano, PT, PhD
Chief of Functional & Applied, Biomechanics Section, NIH Clinical Center, Bethesda, MD
“What’s New in the World of Neurorehabilitation Research for Children with Cerebral Palsy?”

10:30 – 11:15 am  Gary Cutter, PhD
Professor, UAB Department of Biostatistics
“How Bad is Rehab Science?”

11:15 am – Noon  Poster presentations and judging (coffee/tea)

Noon – 1:00 pm  Lunch and Learn (Lunch provided)
Alan Eberhardt, PhD
Professor; Associate Chair, UAB Department of Biomedical Engineering
“Translational Rehabilitation and Assistive Devices (TREAD) – Activities in the UAB School of Engineering”

1:00 – 2:00 p.m.  Keynote II
Ken Ottenbacher, OT, PhD
Professor & Director, Rehabilitation Sciences; Professor, Internal Medicine; Professor, Occupational Therapy
University of Texas Medical Branch, Galveston, TX
“The Changing World of Post-Acute Care: Reform and Readmission”

2:00 – 2:45 p.m.  Tina Kempin Reuter, PhD
Director, UAB Institute for Human Rights
“Embracing the Disability Rights Paradigm: The Social Model of Disability, Inclusion, and Access for All”

2:45 – 3:00 p.m.  Break (refreshments provided)
3:00 – 4:00 p.m.  **Keynote III**

**Pamela Duncan, PT, PhD**  
Professor, Neurology, Gerontology and Geriatric Medicine  
Wake Forest School of Medicine  
*“Pragmatic Trials: Collaboration, Implementation and Innovation”*

4:00 – 4:15 pm  Presentation awards and closing remarks
Poster Presentations (listed by board #)

1. “Braking to speed up? Exploring the counterintuitive mechanics of walking faster in old adults, from the ground up” - Daniel Kuhman; Christopher Hurt

2. “The Effects of the AllCore360 Isometric Exercise on Postural Control in Wheelchair Basketball Athletes: A Pilot Study” - Hunter B. Alvis; Melissa Pangelinan

3. “Knowledge of the Rules and Regulations of Driving a Vehicle in Drivers With and Without ADHD” - Maria T. Lechtreck; Despina Stavrinos

4. “Vestibular and Oculomotor Function in Children with Cerebral Palsy” - Anwar Almutairi; Jennifer Christy; Cochrane, Graham; Busettini, Claudio

5. “The Development of Virtual Reality Environments to Improve Movement Quality and Quantity in Individuals with Chronic Low Back Pain” - Rebecca Hennessy; David A. Brown

6. “Does Balance Confidence Relate to the Maintenance of Dynamic Stability Over a Range of Walking Speeds?” - Jutaluk Kongsuk; David A. Brown; Christopher P. Hurt

7. “Assessment of Diabetes and Hypertension in Adults with Spinal Cord Injury” - Yumi Kim; Tapan Mehta

8. “The design and efficacy of video models for adapted tennis instruction in adults with disabilities” - Loriane Favorotto; Pangilinan M. Melissa

9. “Percent total body fat, independent of age, height, and muscle mass, is negatively associated with muscle strength and jump test performance in older women” – Bethany Moore; Harshvardhan Singh; Debra A. Bemben; Zhaojing Chen; Kenneth G. Saag; Donald Lein; Cynthia J. Brown; Gary R. Hunter,

10. “Racial/Ethnic Differences in Obesity in Individuals with Spinal Cord Injury: The Impact of Disadvantaged Neighborhood” - Huacong Wen; Yuying Chen; Amanda L. Botticello; Sejong Bae

11. “The Effects of the AllCore360 Isometric Exercise on Postural Control in Wheelchair Basketball Athletes: A Pilot Study” - Hunter B. Alvis; Melissa Pangelinan
12. “GoHealthySCI: The Development of a Weight Management Program for People with Spinal Cord Injury” - Stephanie L. Silveira; Rosemary B. Hughes; Margaret A. Nosek; Heather B. Taylor; Tracey A. Ledoux; Lisa Wenzel; Lauren Diaz; Susan Robinson-Whelen; The GoHealthySCI Consortium

13. “Does practicing manual wheelchair skills with the expectation of teaching them enhance skill learning?” - Mariane Bacelar; Jence Rhoads; Marcos Daou; Won Valerius; Briana Carter; Lucia Scaglione; Keith Lohse; Matthew Miller


15. “Lower-extremity Constraint-Induced Movement Therapy (LE-CIMT): characterizing the Protocol” - Sarah Dos Anjos; David Morris; Edward Taub

16. “Effect of Lower-Extremity Constraint-Induced Movement Therapy protocol on gait and mobility after stroke: a case study” - Sarah Dos Anjos; David Morris; Edward Taub

17. “A Narrative Exploration of the Evolving Perception of Exercise within People with Multiple Sclerosis” - Emma V. Richardson; Elizabeth A. Barstow; Robert W. Motl

18. “Energetic Cost of Walking and Spasticity in Persons with Multiple Sclerosis with Moderate Disability” - Brenda Jeng; Dr. Brian Sandroff; Dr. Robert W. Motl

19. “The Effect of Exercise Intensity on the Kinematics of Reach Performance and Brain Derived Neurotrophic Factor” - Jessica F. Baird; Mary E. Gaughan; Heath M. Saffer; Mark A. Sarzynski; Troy M. Herter; Stacy L. Fritz; Dirk B. den Ouden; Jill C. Stewart

20. “A Qualitative Study of Exercise and Physical Activity among Adolescents with Pediatric Onset Multiple Sclerosis” - E. Morghen Sikes; Emma V. Richardson; Robert W. Motl

21. “Adaptive Gymnastics – Executive Functions, Perceived Competence and Fitness Skills of Children with Developmental Disabilities” - Claire Bridges; Robyn Feiss; Mary E. Rudisill; Sheri Thornburg-Brock; Matthew Miller; Melissa Pangelinan

22. “Racial/Ethnic Differences in Obesity in Individuals with Spinal Cord Injury: The Impact of Disadvantaged Neighborhood” - Huacong Wen; Yuying Chen; Amanda L. Botticello; Sejong Bae
23. “Biomechanical effects of walking against fore-aft resistance applied at the center of mass (COM)” - Avantika Naidu; Christopher P. Hurt; David A. Brown

24. “Examining the relationship between driving outcomes and perceived injustice among individuals with chronic low back pain” - Albatool Alnojeidi; Joshua Seward; Deanna Rumble; Maegan Gates; Nina Attridge; Despina Stavrinos; David Moore; Zina Trost

25. “The Impact of Injustice Appraisals on Pain and Psychosocial Outcomes in an Inpatient Spinal Cord Injury Rehabilitation Program” - Monima Anam; Alexandra Wike; Ashley Garner; Liza Nowlin; Tori Wheelis; Kimberley Monden; Adriel Boals; Doerthe Bernsten; Zina Trost

26. “Exploring the Role of Pain Catastrophizing in Driving Behavior among Individuals with Chronic Low Back Pain” - Joshua Seward; David Moore; Maegan Gates; Deanna Rumble; Nina Attridge; Despina Stavrinos; Zina Trost

27. “Effects of ketogenic diet on neuro-recovery in individuals with acute spinal cord injury” - Jia Li; Adarsh Kulkarni; Paige Farley; Cassie Renfro; Hammad Aslam; Patrick Bosarge; Keneshia Kirksey; Landon Wilson; Stephen Barnes; Ceren Yarar-Fisher

28. “Substance Abuse and Smoking Choices: A Comparison Between Electronic-Cigarettes Users and Tobacco Smokers” - Abdullah M. Alanazi; Eric W. Ford

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