



## The Research Forum

The continuing evolution of physical therapy as a profession of autonomous health care providers demands of its practitioners an enhanced degree of independent, innovative and critical inquiry.

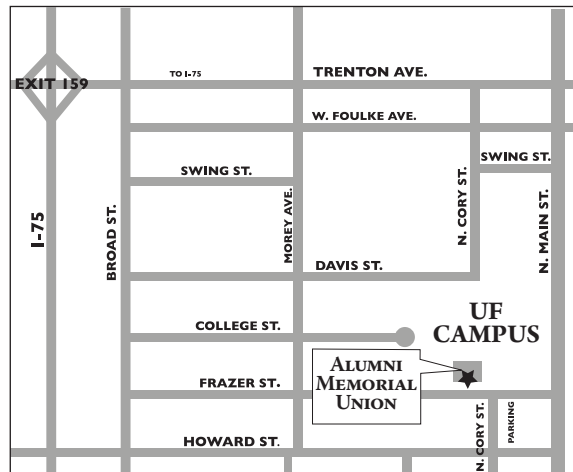
Successful clinicians embrace clinical research with its foundation in logic, reason and systematic analysis, in order to not only enhance their personal development, but also forward the advancement of the profession.

The University of Findlay Physical Therapy Program, recognizing the importance of clinical research in the physical therapy profession, sponsors the research forum as an opportunity to develop and promote clinical research among its students, faculty and community.



## Where to Find Us

Directions from I-75 to Alumni Memorial Union, Multi-purpose Room



## For More Information

For more information please call the physical therapy office at 419-434-4863 or e-mail [fry@findlay.edu](mailto:fry@findlay.edu).

**FINDLAY**  
THE UNIVERSITY OF FINDLAY

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The University of Findlay  
Physical Therapy Program

# SPRING RESEARCH FORUM

In conjunction with the  
Ohio Physical Therapy Association  
Northwest District Meeting

Thursday, April 2, 2009  
4-7 p.m.  
Alumni Memorial Union



*Promoting clinical research  
among students, faculty  
and community*



*Fostering innovative  
independent  
critical thinking*

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## Program Objectives

To acquaint the audience with the current state of the art of Selective Dorsal Rhizotomy and discuss it in regards to a patient case of a seven-and-a-half-year-old boy

To discuss the various options available for prosthetics for patients with above knee amputations and to specifically discuss the Otto-Bock C-Leg

To discuss through the use of a case report a protocol for use in patients with fibromyalgia which includes strengthening, range of motion, and aerobic conditioning

To discuss the rehabilitation plan and progression for an older adult from a significant debilitated state to athletic competition level

To discuss effectiveness of the rehabilitation process on a single subject for treatment post lower leg fasciotomy of peroneal nerve palsy, gastrocnemius muscle debridement and partial removal, and ligament tears of the ACL, PCL, and MCL in relation to ROM, gait, pain, and functional mobility

To list interventions appropriate for the treatment of post lower leg fasciotomy of peroneal nerve palsy, gastrocnemius muscle debridement and partial removal, and ligament tears of the ACL, PCL, and MCL

To have an understanding of the basic principles of Mobilization with Movement and discuss reasoning for using any of the three types of Mobilization with Movement techniques for the shoulder

To discuss the connection between treatment of patients with guns wounds to the head and patients who suffer a CVA

To discuss the effectiveness of integrating Proprioceptive Neuromuscular Facilitation and Neurodevelopmental Therapy to increase outcomes scores for the Berg Balance Scale and Tinetti Gait/Balance Test

To determine if a difference exists in aerobic capacity between groups participating in either a fitness based PE class or sports based PE class

To determine if there is a difference in physical activity perception between students following six weeks participation in either fitness based or sports based PE classes

To determine if there is a correlation between aerobic capacity and the perception of physical activity among students participating in either fitness based or sports based PE classes

## Poster Presentations

4-4:45 p.m.

### **A Case Report: Post-Operative Gains Following Selective Dorsal Rhizotomy on a Boy With Spastic Diplegic Cerebral Palsy**

Lauren Kuhn, Student Physical Therapist  
*Adviser: Sharon Fleming Walsh, PT, DSc, MA, PCS*

### **Use of an Otto-Bock C-Leg by an Individual with an Above Knee Amputation**

Jeff Bogner, Todd Elchert, Student Physical Therapists  
*Adviser: Walsh*

### **Rehabilitation of a Patient Diagnosed with Polymyalgia Rheumatica Undergoing Fibromyalgia Treatment Protocol**

Greg Lortz, Danielle Zumfelde,  
Student Physical Therapists  
*Adviser: Walsh*

### **Case Report: Fall Risk and Athletic Performance in the Older Adult**

Kristin Erne, Student Physical Therapist  
*Adviser: Walsh*

### **Lower Extremity Compartment Syndrome and the Effects of Rehabilitation: A Case Report**

Amanda Feher, Student Physical Therapist,  
William Hartman MEd, PT, ATC  
*Adviser: Mark J. Carroll, PT, EdD, MEd*

### **The Effects of Mulligan Mobilization with Movement Techniques on Shoulder Impingement: A Case Report**

Eric Avers, Student Physical Therapist  
*Adviser: Carroll*

### **Role of Neuromuscular Reeducation and Exercise Intervention in the Treatment of a Patient with Gunshot Wound to Head: A Case Report**

Stephanie A. Schmitz, Jeremy C. Smith,  
Student Physical Therapists  
*Adviser: Carroll*

### **Effectiveness of a Craniocervical Flexor Training Program in the Treatment of Chronic Neck Pain and Postural Abnormalities: A Retrospective Case Report**

Melissa Best, Student Physical Therapist,  
Melinda Baker, PT, MPPT  
*Adviser: Carroll*

### **Ergonomic Risk Factors of Heavy Work Material Handling and the Relationship to Perceived Back, Arm and Leg Pain**

Kristin Gratop, Michelle Maynard, Erin Rothlisberger and Megan Warnecke, Student Physical Therapists  
*Adviser: Weaver*

## Refreshments

5:30-6 p.m.

## Platform Presentations

6-6:45 p.m.

### **Perceptions towards Physical Activity in Sixth Graders who participate in Physical Fitness Activities Versus Sports-Based Activities**

Michelle Dickston, Nicole Waite, Alan Jackson,  
Student Physical Therapists  
*Advisers: Julie Toney, PT, PhD, Scott Van Zant, PT, PhD*

### **Effects of Ankle Bracing on Lower Extremity Muscle Activation during Sport Specific Activities**

Eric Snyder, Julie Duling, Casey Luffring,  
Student Physical Therapists  
*Adviser: Cindy Bouillon, PT, PhD*

### **Impact of Verbal Cuing on Scapular Motion between Thera-Band® and Pilates Reformer® Exercise**

Eric Clevidence, Gordon Estlack,  
Student Physical Therapists  
*Adviser: Bouillon, Jenna Encheff, PT, PhD*