



SCHOOL OF HEALTH AND REHABILITATION SCIENCES

INDIANA UNIVERSITY
IUPUI

Dean's Update

October-December, 2012

Teaching and Learning

- **Ryan Cardinal**, DPT, and **Peter Altenburger**, PhD, PT, presented a one-day educational seminar for the INAPTA on advance neurological evaluation and treatment, November 2-3, 2012.
- **Peter Altenburger**, PhD, PT, and **Ryan Cardinal**, DPT, co-authored a Podcast for the American Physical Therapy Association titled: *Robotics and Physical Therapy: Intervention*.
- **Peter Altenburger**, PhD, PT, and **Ryan Cardinal**, DPT, served as primary members of a workgroup for the APTA on implementation of robotic technology within physical therapy practice.
- **Fengyi Kuo**, DHS, OTR, CPRP, and **Sharon Pape**, MS, OTR, presented with IUSOM-Department of Psychiatry Grand Rounds November 9th Autism & OT

Research, Scholarship, and Creative Activity

- **Beth Brown's**, PhD, PT, ATC, and Richard Gaidoo (Bridges to Baccalaureate student) presented findings of a research project titled "The Effects of Aerobic Exercise Training on Right Ventricle and Skeletal Muscle Metabolism in a Rat Model of Pulmonary Arterial Hypertension" at the 18th annual IU Undergraduate Research Conference and the second annual School of Health and Rehabilitation Sciences Research Day.
- **TJ Chingombe** (mentored by Dr. Beth Brown, PT Dept.) presented research at the 18th Annual IU Undergraduate Research Conference and the second annual School of Health and Rehabilitation Sciences Research Day entitled: "Effects of Acute Treadmill Exercise on Pulmonary Pressure and Endothelial Nitric Oxide Synthase in a Rat Model of Pulmonary Arterial Hypertension"
- **Jacob Crist**, DPT student (Mentored by Dr. Beth Brown) presented research at the Indiana Physical Therapy Association State Conference and the second annual School of Health and Rehabilitation Sciences Research Day entitled: *Six Weeks of Treadmill Training at Mild Relative Intensity Attenuates Disease Progression in a Rat Model of Pulmonary Arterial Hypertension (PAH)* Senior author: **Mary Beth Brown**, PT, ATC, PhD

- **Liu, CJ** & Rawl, S.M. (2012). Effects of text comprehension and retention of colorectal cancer screening information & preliminary study. *Journal of Health Communities*, 17,222-240 (October 2012)
- Combs SA, Parameswaran AK, Colburn D, Ertel T, Harmeyer A, Bucker L, **Schmid AA**. Walking Function Improves with Body Weight Supported Treadmill Training or Overground Walking Training for Persons with Chronic Stroke, American Congress of Rehabilitation Medicine, Vancouver Canada, October, 2012.
- **Schmid AA**, Yoga, a modality for post-stroke rehabilitation (oral presentation). American Congress of Rehabilitation Medicine, Innovations in Stroke Rehabilitation, early instructional course, Vancouver, Canada, Oct 2012.
- **Schmid AA**, Van Puymbroeck M, **Miller KK**, **Altenburger PA**. Balance impairment is associated with quality of life during chronic stroke (oral presentation). American Congress of Rehabilitation Medicine, Vancouver Canada, Oct 2012.
- **Scott, PJ**, Use of the Role Checklist as a measure and guide to understanding of Narrative Plot (oral presentation). Model of Human Occupation International Institute, Stockholm Sweden. Oct 2012
- **Scott, P.** (2012) Fatigue as Reported at 12 Time Points during the First Year post-Liver Transplant Translating Research into Practice (TRIP) Showcase, Tuesday, Oct 23, 2012

Publications

- Combs SA, Van Puymbroeck M, **Altenburger PA**, **Miller KK**, **Dierks TA**, **Schmid AA**. Is walking faster or walking farther more important to persons with chronic stroke? *Disability and Rehabilitation*. Oct 2012.

Abstracts

- **Kelton GM** and Sevilla J. An academic medical center's approach to migrant care in the context of global health (abstract). The Canadian Conference on Global Health: Global Health in a Shifting World Economy. Ottawa, Canada Oct 23, 2012.
- **Schmid AA**, Van Puymbroeck M, **Miller K**, **Altenburger P**, **Dierks T**, Schalk N, DeBaun E, Damush T, Williams L, Chagdes S, Dye L, Moore R, Racine L. The impact of yoga on quality of life after stroke. IUPUI Research Day, Indianapolis, IN; Fall 2012.

Poster Presentations

- **Altenburger P**, **Dierks T**, **Miller K**, Combs S, Van Puymbroeck M, **Schmid A**. Examination of sustained gait speed in individuals with chronic stroke deficits. Poster Presentation at the Second Annual School of Health and Rehabilitation Sciences Interprofessional Research Conference. November 2012

- Ultrasound imaging as a diagnostic tool for muscle, tendon and fascia pathologies: An Emerging PHYSICAL THERAPY Practice, Danielle, White; Bird, Chelsea (DPT Students), **Bayliss, Amy J; Loghmani, Terry M** (Poster presented at INAPTA state conference & the SHRS Research Day)
- **Liu, C.-J., Pape, S.**, Bayson, K., Hahn, M., Stahl, L., & Powers, B. M. (November 2012). Learning how to use assistive devices in older adults: Are illustrations helpful? The 64rd annual scientific meeting of the Gerontological Society of America, San Diego, CA.
- VanMatre R, **MacKinnon J**, Dusick A, **Justiss M**. Inter-rater agreement of an infant motor assessment between parents and a pediatrician specializing in motor development. Poster presentation at the Society for Research in Child Development, Tampa, FL Oct 18,
- Combs SA, Parameswaran AK, Colburn D, Ertel T, Harmeyer A, Bucker L, **Schmid AA**. Walking Function Improves with Body Weight Supported Treadmill Training or Overground Walking Training for Persons with Chronic Stroke
- Julie M. Kurrasch, OTS, and **Patricia J. Scott, PhD, MPH, OT, FAOTA** (2012). Comparison of Sensory Assessments for Pediatric Settings: Indiana Occupational Therapy Association. November 10, 2012.
- Erin DeBaun, OTS, Cami Walton-Thoeming, OTS, **Patricia Scott, PhD, MPH, OT, FAOTA** (2012) Occupational Therapists in the Emergency Department: An Emerging Role: Indiana Occupational Therapy Association. November 10
- Brent DeJulio OTS, Deepika Shiroy OTS, and Patricia J. Scott, PhD, MPH, OT, FAOTA (2012) Impact of Occupational Therapy Services on Length of Stay in an Acute Care Setting: Indiana Occupational Therapy Association . November 10, 2012.
- Nicole H. Cook, OTS, Deborah L. Pokorney, OTS, and **Patricia J. Scott, PhD, MPH, OT, FAOTA** (2012) The Emerging Role of Occupational Therapy in Organ Transplantation: Indiana Occupational Therapy Association. November 10, 2012.
- David C. Downend OTS, Kristen E. Yates OTS and **Patricia J. Scott PhD, MPH, OT, FAOTA** (2012) The Increasing Role of Occupational Therapy in Ventricular Assist Device Care: Indiana Occupational Therapy Association. November 10, 2012.
- Sarah E. Baker, OTS, Sairah M. Safdar, OTS, Fallon N. Shively, OTS, Jessica N. Sullivan, OTS, Evan Asay, OTR, Anita Lawhorn, OTR, & **Patricia J. Scott, PhD, OT, FAOTA** (2012) Consideration of Patient Factors in Designing Educational Materials: Indiana Occupational Therapy Association. November 10
- Jaime L. Clark, OTS, Kelsey M. Ewing, OTS, Natalie S. Holland, OTS, Kelly L. VanKoeving, OTS, **Patricia J. Scott, PhD, MPH, OT, FAOTA** (2012) Support for the use of the Canadian Occupational Performance Measure (COPM) in Occupational Therapy Upper Extremity Rehabilitation: Indiana Occupational Therapy Association. November 10, 2012.
- **Rachel McFadden** (student) , **Patricia J. Scott, PhD, MPH, OT, FAOTA** (2012) Comparison of Sensory Assessments for Pediatric Settings. School of Health and Rehabilitation Sciences Annual Interdisciplinary Research Day, November 17, 2012.

- Sairah Safdar , Fallon Shively, **Patricia J. Scott**, PhD, MPH, OT, FAOTA (2012) Support for the Use of the Canadian Occupational Performance Measure (COPM) in Occupational Therapy Upper Extremity Rehabilitation. School of Health and Rehabilitation Sciences Annual Interdisciplinary Research Day, November 17, 2012.
- Kristen Yates , **Patricia J. Scott**, PhD, MPH, OT, FAOTA (2012) The Increasing Role of Occupational Therapy in Ventricular Assist Device Care: School of Health and Rehabilitation Sciences Annual Interdisciplinary Research Day, November 17, 2012.
- Olivia Lockhart , Hilary Ritthaler, and **Patricia J. Scott**, PhD, MPH, OT, FAOTA, Occupational Therapists in the Emergency Department: An Emerging Role. School of Health and Rehabilitation Sciences Annual Interdisciplinary Research Day, November 17, 2012.
- Sharon Gavrilovic , Kelsey Jacobs, Deborah Pokorney, **Patricia J. Scott**, PhD, MPH, OT, FAOTA, The Emerging Role of Occupational Therapy in Organ Transplantation: School of Health and Rehabilitation Sciences Annual Interdisciplinary Research Day, November 17, 2012.
- Kris Gossett , **Patricia J. Scott**, PhD, MPH, OT, FAOTA, Occupation Based Cognitive Assessments for the Acute Care Setting. School of Health and Rehabilitation Sciences Annual Interdisciplinary Research Day, November 17, 2012.
- Cheryl Davis , **Patricia J. Scott**, PhD, MPH, OT, FAOTA, Impact of Occupational Therapy Services on Length of Stay in an Acute Care Setting: School of Health and Rehabilitation Sciences Annual Interdisciplinary Research Day, November 17, 2012.
- Cynthia Lambert , Asia Smith, **Patricia J. Scott**, PhD, MPH, OT, FAOTA, Rehabilitation of the Shoulder Following TSA: A Comparison of Outcome Measures: School of Health and Rehabilitation Sciences Annual Interdisciplinary Research Day, November 17, 2012.
- **Linda Tomczuk** (DPT student) presented a poster at the the Indiana Chapter of the American Physical Therapy Association State Conference, Oct 19, 2012.
- Reference: Tomczuk L (DPT student), **Loghmani MT, Altenburger PA, Strunk VA, Bayliss AJ**. Using an Integrative Longitudinal Case-Based Learning Model as a Curriculum Strategy to Enhance Complex Case Development. Indiana Chapter of the American Physical Therapy Association Annual Conference, Oct 19, 2012.
- **Danielle White** and **Chelsea Bird** (DPT students) presented a poster at the Indiana Chapter of the American Physical Therapy Association State Conference, Oct 19, 2012.
Reference: White D, Bird C (DPT students), **Bayliss AJ, Loghmani MT**. Application of ultrasound imaging of muscle, tendon, and fascia: an emerging PT practice area. Indiana Chapter of the American Physical Therapy Association Annual Conference, Oct 19, 2012.

Oral Presentations

- **Fess, E. E.**, Lui, P., Wicks, L. B., **Fisher, T.**, Brasseur, C., Moser, H., . . . Weaver, S. Interrelationship between handedness and grip strength in normal adults.

- Paper presented at the Interdisciplinary Research Conference, Indiana University School of Health & Rehabilitation Sciences, Indianapolis, IN., November 17, 2012.
- **Fess, E. E.,** & Bear-Lehman, J. Getting Started: Creating Evidence for Hand Therapy Practice preconference (4-hour workshop) Paper presented at the Annual Meeting of the American Society of Hand Therapists. San Diego, CA: American Society of Hand Therapists, 2012.
 - **Fess, E. E.** Calibration techniques for dynamometers and pinchometers (1-day workshop). Paper presented at the Department of Occupational Therapy, Xavier University, Cincinnati, OH., 2012.
 - **Thom Fisher,** PhD, OTR, CCM FAOTA, presented "Update on Legislation and Health Policy" at the Indiana OT Association Annual Fall Conference – November 10, 2012
 - **Thom Fisher,** PhD, OTR, CCM FAOTA, presented at the Fall Program Director's Meeting in Orlando, FL, October 5, 2012 "Where is Professional OT Education Headed"?
 - **Thom Fisher,** PhD, OTR, CCM FAOTA, was invited by the IUPUI Office of Faculty Advancement and Appointments to present on "Strategies for being promoted to full professor" – October 25, 2012
 - **Sharon Pape,** MS, OT, presented at Indiana OT Association fall conference on Fieldwork Education, November 10, 2012
 - **Schmid AA,** Van Puymbroeck M, **Miller KK,** **Altenburger PA.** Balance impairment is associated with quality of life during chronic stroke. American Congress of Rehabilitation Medicine, Vancouver Canada, Oct 2012.
 - **Schmid AA,** Yoga, a modality for post-stroke rehabilitation. American Congress of Rehabilitation Medicine, Innovations in Stroke Rehabilitation, early instructional course, Vancouver, Canada, Oct 2012.
 - **Patricia J. Scott,** PhD, OT, FAOTA presented "Impact of the liver transplantation process on everyday lives" on 10/23/12 at the TRIP (Translating Research into Practice) Community Showcase.

Civic Engagement

- **Sharon Pape** and IU Student OT Association (SOTA) : Raised over \$1,700.00 for the Indiana Chapter Alzheimer's Associations' Annual Walk "to cure" Alzheimer's.
- **Patricia J. Scott,** PhD, OT, FAOTA, coordinated the International Working Group for the Measurement of Participation of Persons with Disabilities, October 10-11th in Stockholm Sweden
- Inaugural Student Physical Therapy Outreach Clinic : October 13, 2012. The IU Physical Therapy Students provided physical therapy services as part of the School of Medicine Student Outreach Clinic (SOC). Physical Therapy services are provided monthly to the community. This community activity is provided by a joint effort between IU and UIndy Physical Therapy students and faculty.
- The Physical Therapy Department donated 874 food items to the Hawthorne Community Center food bank as part of their Physical Therapy month events.

We also had a booth at the IUPUI Health fair on October 31st titled “Fitness for your Feet” to educate those on campus about fitness shoe selection.

Grants

- **Mary Beth Brown**, PhD, PT, ATC (Co-PI) was awarded an internal grant of \$75,000 by the IU Center for Excellence in Cardiovascular Research for the project entitled, “*Sex differences in the right ventricular response to exercise in rats with severe angioproliferative pulmonary hypertension*”
- **Tracy Dierks**, PhD, and **Peter Altenburger**, PhD, PT, are Co-Investigators on a \$30,000 grant awarded by the American Physical Therapy Association Section on Pediatrics. The title of the grant is: *How much how often: dosage in robot-assisted therapy in pediatrics*. (PI: Michael J. Majsak, New York)

Best Practices

- **Patricia Scott**, PhD, MPH, OT, FAOTA was interviewed on Sound Medicine about her Transplant Research. The interview was also featured "In the News" of the OT Practice Magazine, Sept 24th Issue
- **Valerie Strunk**, MS, PT, and **Peter Altenburger**, PhD, PT presented a platform at the American Physical Therapy Educational Leadership Conference in Greenwich, Connecticut on October 7. The presentation was based on their research into the Integrated Clinical Education model, and was titled *Using the Implementation of an Integrated Clinical Education Model as an Opportunity to Strengthen Academic-Clinical Partnerships*.

External Awards and Appointments

- **Peter Altenburger**, PhD, PT, was elected to the position of Chair of the Program Review and Assessment Committee for the IUPUI Campus
- **Peter Altenburger**, PhD, PT was appointed to an advisory board on robot-assisted technology and its implementation within healthcare educational programs.
- **Jeffrey L. Crabtree**, MS, OTD, FAOTA: October 2012 appointment as Affiliate Research Scientist, Rehabilitation Research Design & Disability (R2D2) Center, University of Wisconsin-Milwaukee. Book chapter for 2nd
- **Kelton, GM**: appointed as chair of the Physicians Resource Council
- **Terry Loghmani**, PhD, PT, MTC, CMT, was invited to be a founding member of the Fascia Research Society
- **Patricia Scott**, PhD, MPH, OT, FAOTA: Recipient of International Travel Award (\$800,) to support travel to the 3rd International Institute for the study of the model of Human Occupation in Stockholm Sweden