



IUPUI

SCHOOL OF HEALTH  
AND REHABILITATION  
SCIENCESINDIANA UNIVERSITY  
Indianapolis

January - March 2015

## Teaching & Learning

- **Patricia Scott, PhD, MPH, OT, FAOTA** presented a lecture to the Rehabilitation Hospital of Indiana's Occupational, Physical, and Speech Therapy staff entitled, "All research is not created equal: Evaluating the Evidence."
- **Valerie Strunk, PT, MS, DCE** taught a national Clinical Instructor Credentialing Program course through the APTA in March. Attendees for the 2-day course included 44 PTs, PTAs, OTs and SLPs, resulting in a Clinical Instructor Credential for the PT professionals in attendance.
- The **Department of Nutrition & Dietetics** was notified by the Commission on Dietetic Registration that the **Dietetic Internship Class of 2014** scored a 100% first time passing rate on the Registration Examination for Dietitians. February 2015.

## Research, Scholarship & Creative Activity

### Grants

- **Terry Loghmani, PhD, PT** was awarded the IUPUI BBRC (Biomechanics and Biomaterials Research Center) Grant for \$10,000 for the research project entitled, "Quantification of force during soft tissue massage for research and clinical use."
- **Patricia Scott, PhD, MPH, OT, FAOTA** and **Tracy Dierks, PhD** were awarded an IUPUI Mentoring Grant for \$10,000 titled, "Creating an Infrastructure for Professional Development and Mentoring in the School of Health and Rehabilitation Sciences."
- **Patricia Scott, PhD, MPH, OT, FAOTA** was awarded a Curriculum Enhancement Grant for \$15,000 titled, "CTL grant Interprofessional Grand Rounds: An Initial Step in the Development of an Interprofessional Curriculum for the Health Profession Schools."

### Publications

- **Avin KG**, Moorthi RN. Bone is not alone: the effects of skeletal muscle dysfunction in chronic kidney disease. *Current Osteoporosis Reports* 2015;13:173-9
- **Avin KG**, Bloomfield SA, Gross TS, Warden SJ. Biomechanical aspects of the muscle-bone interaction. *Current Osteoporosis Reports* 2015;13:1-8
- Bennett K, McElroy J, Johnson A, **Munk N**, Everett K. A persistent disparity: smoking in rural sexual and gender minorities. *LGBT Health* 2015;2:62-70
- De la Motte S, **Arnold BL**, Ross SE. Trunk-rotation differences at maximal reach of the star excursion balance test in participants with chronic ankle instability. *Journal of Athletic Training* 2015;50:358-65
- **Ernst J**, Ettyang G, Neumann CG. High-nutrition biscuits to increase animal protein in diets of HIV-infected Kenyan women and their children: a study in progress. *Food and Nutrition Bulletin* 2014;35:S198-204
- Frump AL, Goss KN, Vayl A, Albrecht M, Fisher AJ, Tursunova R, Fierst J, Whitson J, Cucci AR, **Brown MB**, Lahm T. Estradiol improves right ventricular function in rats with severe angioproliferative pulmonary hypertension: effects of endogenous and exogenous sex hormones. *American Journal of Physiology - Lung Cellular and Molecular Physiology* 2015;308:L873-90
- Goss KN, Cucci AR, Fisher AJ, Albrecht M, Frump AL, Tursunova R, Gao Y, **Brown MB**, Petrache I, Tepper RS, Ahlfeld SK, Lahm T. Neonatal hyperoxic lung injury favorably alters adult right ventricular remodeling response to chronic hypoxia exposure. *American Journal of Physiology - Lung Cellular and Molecular Physiology* 2015;308:L797-806
- Zanjani F, Davis T, Newsham P, Kruger TM, **Munk N**, Schoenberg N, Martin C. Management of psychiatric appointments by telephone. *Journal of Telemedicine and Telecare* 2015;21:61-3
- Rohe B, Carter R, **Thompson WR**, Duncan RL, Cooper CR. Experimental integrative muscular movement technique enhances cervical range of motion in patients with chronic neck pain: a blinded pilot study. *Journal of Alternative and Complementary Medicine* 2015;21:223-8



## Research, Scholarship & Creative Activity (cont.)

### Presentations

- **Peter Altenburger, PhD, PT.** American Physical Therapy Association Combined Sections Meeting. The Evolving Approach to Functional Recovery with Technology. Presented at the Combined Sections Preconference Workshop on Advanced Technology. Indianapolis, IN. February 4, 2015.
- **Peter Altenburger, PhD, PT** and **Ryan Cardinal, DPT, PT** organized a workshop for physical therapists titled, "Rehabilitative Effects on Neuroplasticity: The Impact of Advanced Technology." Presented at the Combined Sections Preconference workshop on Advanced Technology, American Physical Therapy Association. Indianapolis, IN. February 4, 2015.
- **Peter Altenburger, PhD, PT, Hilary Nuest (DPT student), Caitlin Stevenson (DPT student), Carolyn Ebbens (DPT student), Terry Loghmani, PhD, PT,** K Norris. The Impact of Required Participation in a Student-Led Community Outreach Clinic on Perceived Value and Participation. Presented at the American Physical Therapy Association Combined Sections Meeting. Indianapolis, IN. February 2015.
- **Amy Bayliss, DPT, PT, Trent Crandall (DPT student), Danielle Farmer (DPT student), Stuart Warden, PhD, PT, FACS**M. Instrument Assisted Soft Tissue Mobilization alters material and mechanical properties in healthy, shortened Achilles tendons. Presented at the American Physical Therapy Association Combined Sections Meeting. Indianapolis, IN. February 2015.
- **Elaine Fess, MS, OTR, FAOTA, CHT.** Hand Assessment: Where is the evidence? Workshop, and Complex Wrist Trauma, Moderator, at Surgery and Rehabilitation of the Hand. Philadelphia, PA. March 7-10, 2015.
- **Sarah Shue (Health Science PhD Student)** selected to participate in ISSEC's IUPUI Student Idea Pitch Competition with the presentation of her original idea for a community non-profit program to support returning Veterans from deployment entitled: Actively Serving. Mentor: **Niki Munk, PhD, LMT.** March 6, 2015.
- **William Thompson, DPT, PhD.** Mechanical Signaling in Bone Marrow Stem Cells. Eli Lilly and Company. Indianapolis, IN. January 2015.
- **William Thompson, DPT, PhD,** Sherwin Yen, Gunes Uzer, Buer Sen, Zhihui Xie, Maya Styner, Janet Rubin. A Novel Osteocyte Model that Recapitulates in vivo Mechanical and Hormonal Responses. Presented at the American Physical Therapy Association Combined Sections Meeting. Indianapolis, IN. February 2015.
- **Kathy Visovatti Weaver, RN, BSN, MPA, JD.** "Global Health Policy on Epidemic Control." Invited presentation at Manchester University Discussion Day. Manchester, IN. February 25, 2015.

### Poster Sessions

- **Amy Bayliss, DPT, PT, Amy Watson (DPT Student), Valerie Strunk, MS, PT, DCE, Terry Loghmani, PhD, PT, Peter Altenburger, PhD, PT.** Preparing students for management of the patient with multimorbidities. Presented at the American Physical Therapy Association Combined Sections Meeting. Indianapolis, IN. February 2015.
- Tsungai Chingombe, **Mary Beth Brown, PhD, PT, ATC.** Exercise Training Ameliorates RV Cardiomyocyte 'Glycolytic Switch' and Improves Aerobic Capacity In Rats with Hypoxic Pulmonary Hypertension. Presented at the Indiana Physiological Society (INPhys) Annual Meeting. Indianapolis, IN. February 2015.
- **Catherine Collins (DPT Student), Jacob Crist (DPT Student),** Shikha Gupta, **Attie Kempf, (DPT Student),** Yaron Hellman, Mark Farber, T Lahm, **Mary Beth Brown, PhD, PT, ATC.** Clinical investigation of a daily walking program plus L-arginine supplementation for the treatment of pulmonary arterial hypertension. Presented at the American Physical Therapy Association Combined Sections Meeting. Indianapolis, IN. February 2015.
- **Carolyn Ebbens (DPT Student), Sarah Raciti (DPT Student), Erica Zartman (DPT Student), Stuart Warden, PhD, PT, FACS**M, Linda DiMeglio, **Peter Altenburger, PhD, PT,** Mary Gannotti, **Robyn Fuchs, PhD, FACS**M. "Exercise and Bone Health in Children with Cerebral Palsy and Injured Brain: A Systematic Review " Poster presentation at the American Physical Therapy Association Combined Sections Meeting. Indianapolis, IN. February 2015.
- **Elizabeth Guildenbecher (DPT Student), Rick Barker (DPT Student), Stuart Warden, PhD, PT, FACS**M. Full-text publication rate of abstracts presented at the American Physical Therapy Association Combined Sections Meeting. Indianapolis, IN. February 2015.
- **Ron Harper (DPT Student), Josh Weyer (DPT Student), Brent Bremer (DPT Student),** Sean Cooney, Amanda Fisher, Robert Presson, Tim Lahm, Irina Petrache, **Mary Beth Brown, PhD, PT, ATC.** Exercise Training at Mild Relative Exercise Intensity Does Not Attenuate Disease Progression in a Rat Model of Severe Pulmonary Arterial Hypertension. Presented at the American Physical Therapy Association Combined Sections Meeting. Indianapolis, IN. February 2015.



## Research, Scholarship & Creative Activity (cont.)

### Poster Sessions (cont.)

- **Terry Loghmani, PhD, PT, Amy Watson (DPT Student), Peter Altenburger, PhD, PT, Amy Bayliss, DPT, PT, Tracy Dierks, PhD, Valerie Strunk, PT, MS, DCE.** Bridging the Transition from the Classroom to the Clinic: An Application of the Integrated Longitudinal Case-Based Learning Model in Developing a Cross-Course Integrative Learning Opportunity. Presented at the American Physical Therapy Association Combined Sections Meeting. Indianapolis, IN. February 2015.
- **Crystal Massie, PhD, OTR,** Yue Du, Susan Conroy, George F. Wittenberg, Christopher Bever, Jill Whittall. Considerations for treatment planning with upper-extremity robotic training in chronic stroke. Presented at the American Physical Therapy Association Combined Sections Meeting. Indianapolis, IN. February 2015.
- **Kristine Miller, PhD, PT** and Stephanie Combs-Miller. Physical Therapists Self-Reported Use of Standardized Outcome Measures in Clinical Practice. Presented at the American Physical Therapy Association Combined Sections Meeting. Indianapolis, IN. February 2015.
- Rachel Novack, **Mary Beth Brown, PhD, PT, ATC.** Training at Moderate Relative Intensity Improves Skeletal Muscle Metabolism in Rats with Pulmonary Arterial Hypertension. Presented at the Indiana Physiological Society (INPhys) Annual Meeting. Indianapolis, IN. February 2015.
- **William Thompson, DPT, PhD,** Sherwin Yen; Gunes Uzer, Buer Sen, Zihui Xie, Maya Styner, Janet Rubin. Targeting RhoA GEFs and GAPs to Direct Mesenchymal Stem Cell Osteogenic Differentiation. Presented at the American Physical Therapy Association Combined Sections Meeting. Indianapolis, IN. February 2015.

## Civic Engagement & Service

- **Stephanie Coward (dietetic intern)** and **Jessica Radin (dietetic intern)** presented a program on Crockpot Meals for medical students on March 24, 2015. The presentation was sponsored by the School of Medicine Student Wellness Committee.
- **Laura Eldridge (dietetic intern), Sarah Gafter (dietetic intern), Cammane Wun (dietetic intern), Jessie Moosbrugger (dietetic intern), Molly Pflipsen (dietetic intern)** and **Jennifer Perceval (dietetic intern)** participated in a health fair on February 5, 2015 at the magnet school, Center for Inquiry 27 in Indianapolis. Approximately 300-350 people - children grades k-8 and their families attended. Interns shared information on meal planning using MyPlate and the recipes for breakfast granola.
- **Judy Ernst, DMSc, RD,** member of the Board of Directors for Cherish Our Children International, attended the annual board meeting January 15 & 16, 2015 in Phoenix, Arizona. Cherish Our Children International supports nurturing environments and care for orphans and other vulnerable children in Kisumu, Kenya in the SOS Children's Village and Children First Organization nursery school and daycare program.
- **Michael Justiss, PhD, OTR** solicited for laptops to be used by Assistive Technology Center at Easter Seals.
- **Brenda Lawless** participated as a judge for the IUPUI Top 100.
- **Valerie Strunk, PT, MS, DCE** participated as a workshop leader at the 2015 Curiosity, Confidence, Challenge Conference for middle school girls on March 14, 2015. Professor Strunk presented 5 active learning workshops to teach girls in grades 6-8 interested in careers in STEM fields about what Physical Therapists do and how they make clinical decisions.

## External Awards and Appointments

- **Peter Altenburger, PhD, PT** was appointed as Chair of the Benchmarks for Excellence Taskforce for the American Council of Academic Physical Therapy.
- **Miriam Barr** and **Sharon Pape, MS, OTR** were nominated for IUPUI Women's Leadership Awards.
- **Mary Beth Brown, PhD, PT, ATC** was awarded best Cardiopulmonary Section research at the American Physical Therapy Association Combined Sections Meeting in Indianapolis for poster titled: Exercise Training at Mild Relative Exercise Intensity Does Not Attenuate Disease Progression in a Rat Model of Severe Pulmonary Arterial Hypertension. February 2015.
- **Mary Beth Brown's** student Tsungai Chingombe (undergraduate- MURI program) was awarded best undergraduate research at the Indiana Physiological Society (INPhys) Annual Meeting, for poster titled: Exercise Training Ameliorates RV Cardiomyocyte 'Glycolytic Switch' and Improves Aerobic Capacity In Rats with Hypoxic Pulmonary Hypertension. Indianapolis, IN. February 2015.



## External Awards and Appointments (cont.)

- **Robyn Fuchs, PhD, FACSM** was elected to Fellow status of the American College of Sports Medicine (ACSM), a prestigious distinction within the College based on service, teaching and research that supports the mission of the College.
- **Niki Munk, PhD, LMT**. Invited Reviewer for the forthcoming text: Werner, R. (2016). A Massage Therapist's Guide to Pathology, 6th Edition. Lippincott Books.
- **Niki Munk, PhD, LMT**. Manuscript Reviewer for Journal of Complementary and Integrative Medicine.
- Over 300 students, faculty, alumni, and friends attended the **Department of Physical Therapy** Alumni Reunion held at the American Physical Therapy Association Combined Sections Meeting in Indianapolis, IN. February 6, 2015.
- **Sara Blackburn, DSc, RD** was named the 2015 Outstanding Dietitian for the State of Indiana.