



SCHOOL OF HEALTH AND REHABILITATION SCIENCES

DEAN'S QUARTERLY UPDATES

April - June 2016

Teaching & Learning

- **Martina Allen, OTD, OTR**, collaborated with School of Dentistry: teaching dental students about scope of OT and positioning of patients at pediatric dental clinic.
- **Amber Comer, JD, PhD**, was named to Mohammed Al Qahtani Dissertation Committee and was awarded Health Life Sciences student research assistant.
- **Niki Munk, PhD, LMT**, served as Dissertation Committee Member for Jennifer Ellis and Abdullah Almojaibel.
- Fourteen dietetic interns graduated from the Dietetic Internship Program on June 22, 2016, which qualifies them to sit for the Registration Examination for Dietitians.

Research, Scholarship & Creative Activity

Abstracts

- Benjamin E* & **Munk N**. Do Conference Presentations Translate to Publication? Enduring Dissemination Impact of the 2005 Albuquerque & 2010 Seattle Massage Therapy Foundation Sponsored Conferences. *IJTMB*, 9(2), 25.
- **Munk N**, Shue S*, Freeland E*, Ralston R & Boulanger KT. Identifying Inconsistencies and Reporting Deficits in Therapeutic Massage and Bodywork (TMB) Case Reports Authored by TMB Practitioners: A TMB Adapted CARE REport (CARE) Guidelines Audit Through 2014. *IJTMB*, 9(2), 15.
- Shue S*, Mulvihill TM, Kania-Richmond A & **Munk N**. Treating Individuals with Amputations in Therapeutic Massage and Bodywork Practice: A Qualitative Study. *IJTMB*, 9(2), 17.

Grants

- **Avin K** and **Fuchs R** received \$20,000 from the American Physical Therapy Association for the Development of a Clinical Guidance Statement for the Physical Therapy-Related Treatment of Osteoporosis.
- **Avin K**, **Fuchs R** & **Loghmani MT** each received \$10,000 from the IUPUI Release Time For Research Grants to support their research efforts.
- **Comer AR**. Identifying ethical issues in stroke treatment and care that affect clinical care and patient outcomes. Grant Total \$13,489.07. IUPUI DRIVE Grant
- **Comer AR**. PRAC Grant. Assessing the Effect of an Ethics Course on Undergraduate Students' Ethical Judgement. \$2500.
- **Comer AR**. Service Learning Assistant Scholarship Award. \$5000 scholarship for graduate research assistant.
- **Loghmani MT** received the 2016 University of Pittsburgh Mechanosensitive Biomarkers Core Award (External) \$20,000.
- **Loghmani MT** received support from Rose Hulman Ventures for development of a soft tissue manipulation motion and force quantification device system. IU RTC Project Development Award, \$10,000.
- **Munk N** was named as an investigator on a VA HSR&D grant entitled Trial Outcomes for Massage: Caregiver-Assisted vs. Therapist-Treated (TOMCATT).
- **Munk N** received a Massage Therapy Foundation grant for \$30,000 entitled Massage Perceptions and Experiences for Individuals with Amputations.
- **Munk N** received an IU RSFG grant for \$35,000 entitled Massage and Self-Care for Chronic Neck Pain.
- **Scully T** received a \$2,500 travel grant from the Office of Institutional Effectiveness to attend the Association for Authentic, Experiential, and Evidence-Based Learning Conference in Boston, MA from August 1-4, 2016."
- **Thompson W** received \$466,338 from the National Institutes of Health for his work entitled "Mechanical partitioning of mTORC2 to direct mesenchymal stem cell fate.



Research, Scholarship & Creative Activity (cont.)

Poster Sessions

- **Brown MB.** High Intensity Interval Training is Superior to Continuous Training in a Pulmonary Hypertension Rat Model. American College of Sports Medicine's Annual Meeting in Boston, May 2016.
- **Brown MB.** A Simple Daily Walking Program Plus L-arginine Supplementation Improves Aerobic Capacity and Quality of Life in Patients with Pulmonary Arterial Hypertension. American Thoracic Society's Annual Meeting in San Francisco. May 2016.
- **Brown MB.** High Intensity Interval Training is Superior to Continuous Training at Two Different Intensities and Reverses RV Remodeling and Dysfunction in a Rat Model of Pulmonary Hypertension. American Thoracic Society's Annual Meeting in San Francisco. May 2016.
- Hamzey K, Kuegel L*, Parker H, Tom L* & **Scott, PJ.** (2016) Comparative-effectiveness study, a client-centered versus impairment focused approach to participation outcomes following stroke. American Occupational Therapy Association, Chicago, IL. April 7-11, 2016.
- Johnson B (undergraduate- LHSI program) presented her research under the mentorship of **Brown MB.** High Intensity Interval Training Benefits Right Heart Function in a Rat Model of Pulmonary Arterial Hypertension. Poster Presentation at the 2016 IUPUI Research Day, April 8, 2016, Indianapolis, Indiana.
- **Liu CJ,** Bertram J*, Fredrick A*, Schuman D*, Utley K* & **Fess E.** (April 2016) Is higher grip and arm curl strength correlated to better hand function in community-dwelling older adults? Chicago, IL. April 9, 2016.
- **Loghmani MT.** The Accuracy of a Soft Tissue Manipulation Force Quantification System for Research and Clinical Use. 2016 IUPUI Research Day, April 8, 2016, Indianapolis, Indiana.
- **Munk N,** Benjamin E*, Davies A, Shue S* & Bair M.J. Trigger-Point Self-Care for Chronic Neck Pain: Pilot and Feasibility. Poster Presentation at the 2016 IUPUI Research Day, April 8, 2016, Indianapolis, Indiana.
- **Munk N,** Freeland E*, Mannheimer S, Shue S*, Bair M.J. Therapeutic Massage Combined with Mirror Therapy for Phantom Limb Pain: Two Experimental Cases. Poster Presentation at the 2016 IUPUI Research Day, , Indianapolis, Indiana. April 8, 2016.
- **Munk N & Stelljes A.** Indianapolis's Little Red Door and Eskenazi Health Bring Massage to Economically Disadvantaged Breast Cancer Patients: Program Evaluation Results at Week 13. Poster Presentation at the 4th Oncology Massage Healing Summit, Bloomington, MN. April 22-24, 2016.
- Talley M (undergraduate- honors Biology program) presented her research under the mentorship of **Brown MB.** Investigating Skeletal Muscle Metabolic Adaptations underlying Aerobic Fitness Gains following High Intensity Interval Training in a Rat Model of Pulmonary Arterial Hypertension. Poster Presentation at the 2016 IUPUI Research Day, April 8, 2016, Indianapolis, Indiana.
- Troutman A (undergraduate- UROP) presented her research under the mentorship of **Brown MB.** High Intensity Interval Training Benefits Right Heart Function in a Rat Model of Pulmonary Arterial Hypertension. Poster Presentation at the 2016 IUPUI Research Day, April 8, 2016, Indianapolis, Indiana.
- Van Antwerp L* & **Scott PJ.** Translation Guidelines for the Role Checklist Version 2: Feasibility study in Iceland and China. American Occupational Therapy Association, Chicago, IL. April 7-11, 2016.

Presentations

- Benjamin E* & **Munk N.** Do Conference Presentations Translate to Publication? Enduring Dissemination Impact of the 2005 Albuquerque & 2010 Seattle Massage Therapy Foundation Sponsored Conferences. Poster Presentation at the 2016 International Massage Therapy Research Conference, May 12-15, 2016, Seattle, Washington.
- **Comer AR.** Before I die Festival (Indianapolis Wide Event): "What do you mean I cannot consent for my grandmother's medical care?": Understanding who can make health care decisions when you are unable – Indiana's law may surprise you. Indianapolis, Indiana April 17, 2016 (various locations in Indianapolis).
- **Comer AR.** Indianapolis Hebrew Congregation: Religion, Death, and End-of Life Decisions. April 15, 2016, Indianapolis, IN.
- **Comer AR.** IUSM Ethics Lecture to Medical Students, Dental Students, and Nursing Students, Indiana University School of Medicine, Indianapolis, IN April 15, 2016.
- **Comer AR.** Neurology Grand Rounds, "To Consent or Not to Consent: tPA is the Question" Indiana University Health and Indiana University School of Medicine, Indianapolis Indiana April 27, 2016.



Research, Scholarship & Creative Activity (cont.)

Presentations (cont.)

- **Comer AR.** WIP – VA - The long-term effect of state stroke legislation on patient health outcomes VA Hospital, Health Services Research, Indianapolis, IN May 13, 2016.
- **Crabtree JL,** Ohm D, Wall, JM & Ray J. "Evaluation of a Prison Informal Occupational Therapy Community Re-entry Program." Podium presentation at the Council of Occupational Therapists for European Countries & European Network of Occupational Therapy in Higher Education (COTEC - ENOTHE 2016) Conference in Galway, Ireland, June 15-19,2016.
- **Janson R,** Esham T, Laramore K & Hughes J. Introduction to 3D Printing & Applications in OT. Presentation at the 96th Annual Conference & Expo of the American Occupational Therapy Association, Chicago, IL. April 7, 2016.
- **Liu C,** Clark D & Xu H. Maintaining ADL independence for vulnerable elders: A pilot randomized controlled trial. Fifth summit of occupational therapy scholars. Pittsburg, PA. May 2016.
- **Massie C.** World Congress of Neurorehabilitation presentation.
- **Munk N,** Freeland E*, Mannheimer S, Shue S* & Bair MJ. Therapeutic Massage Combined with Mirror Therapy for Phantom Limb Pain: Two Experimental Cases. Poster Presentation at the 2016 IUPUI Research Day, April 8, 2016.
- **Munk N & Stelljes A** Indianapolis's Little Red Door and Eskenazi Health Bring Massage to Economically Disadvantaged Breast Cancer Patients: Program Evaluation Results at Week 13. Poster Presentation at the 4th Oncology Massage Healing Summit, Bloomington, MN. April 22-24, 2016.
- **Munk N.** Linking TMB Practitioners with Researchers: Reconceptualizing the TMB Practitioner as Student. Panel presentation and discussant for Massage Research and Education Panel at the International Massage Therapy Research Conference, Seattle Washington. May 15, 2016.
- **Munk N,** Benjamin E*, Davies A, Shue S* & Bair M.J. Trigger-Point Self-Care for Chronic Neck Pain: Pilot and Feasibility. 2016 International Congress Integrative Medicine & Health Conference, Las Vegas, Nevada. May 17-20, 2016.
- **Munk N,** Freeland E*, Mannheimer S, Shue S*, Bair M.J. Therapeutic Massage Combined with Mirror Therapy for Phantom Limb Pain: Two Experimental Cases. 2016 International Congress Integrative Medicine & Health Conference, Las Vegas, Nevada. May 17-20, 2016.
- **Shue S*,** Mulvihill TM, Kania-Richmond A & . Treating Individuals with Amputations in Therapeutic Massage and Bodywork Practice: A Qualitative Study. International Massage Therapy Research Conference, Seattle, Washington. May 12-15, 2016.
- **Munk N,** Shue S*, Freeland E*, Ralston R & Boulanger KT. Identifying Inconsistencies and Reporting Deficits in Therapeutic Massage and Bodywork (TMB) Case Reports Authored by TMB Practitioners: A TMB Adapted CARE Report (CARE) Guidelines Audit Through 2014. 2016 International Massage Therapy Research Conference, Seattle, Washington. May 12-15, 2016.
- **Pape S,** Tom L*, Parker H*, McGill M*, Savage L*& Enochs H*. Roadmap to Developing a Student-Led Occupational Therapy Community Health Clinic. American Occupational Therapy Association, Chicago, IL. April 9, 2016.
- **Pape S.** Preparing for Occupational Therapy Practice in Primary Care. Evening with a Leader – Keynote Presentation Pi Theta Epsilon (PTE) – Rho Chapter University of Wisconsin, Milwaukee, April 25, 2016.
- **Scott PJ.** Interprofessional Teaching Grand Rounds: Implementation for Early Learning of Team Collaboration COTEC – ENOTHE Congress, National University of Ireland, June 15-19, 2016.
- **Scott PJ.** Addition of a Daily Living Scale to the Occupational Self- Assessment. COTEC – ENOTHE Congress, National University of Ireland, June 15-19, 2016.
- **Meidert U, Scott PJ,** Bonsaksen T & Fenger K. Symposium: The Modified Role-Checklist as a Cross-Culturally Valid Measure of Participation: feasibility of translation procedure; role examples and their association with occupational participation; role examples are used for an ICF-linkage; and scoring. COTEC – ENOTHE Congress, National University of Ireland, June 15-19, 2016.



Research, Scholarship & Creative Activity (cont.)

Publications

- **Altenburger PA**, Schmid AA, Van Puymbroeck M, **Miller KK**. Impact of yoga on postural stability in stroke. *Int J Neurorehabilitation* 2016;3:195 (8 pages).
- **Avin KG**, Chen NX, Organ JM, Zarse C, O'Neill K, Conway RG, Konrad RJ, Bacallao RL, Allen MR, Moe SM. Skeletal muscle regeneration and oxidative stress are altered in chronic kidney disease. *PLoS One* 2016;11:e0159411 (15 pages).
- **Bayliss AJ**, Weatherholt AM*, Crandall TT*, Farmer DL*, McConnell JC*, Crossley KM, Warden SJ. Achilles tendon material properties are greater in the jump leg of jumping athletes. *J Musculoskelet Neuronal Interact* 2016;16:105-12.
- Beumer L*, Wong J*, **Warden SJ**, Kemp JL, Foster P*, Crossley KM. Effects of exercise and manual therapy for hip osteoarthritis: a systematic review and meta-analysis. *Br J Sport Med* 2016;50:458-63.
- **Crabtree JL**, **Scott PJ**, Kuo F. Peer Observation and Evaluation Tool (POET): a formative peer review supporting scholarly teaching. *Open J Occup Ther* 2016;4:Article 9 (17 pages).
- Elenburg JL, Foley BS, Roberts K, **Bayliss AJ**. Utilization of mechanical diagnosis and therapy (MDT) for the treatment of lumbar pain in the presence of known lumbar transverse process fractures: a case study. *J Man Manip Ther* 2016;24:74-9.
- Ferira AJ*, Laing EM, Hausman DB, Hall DB, McCabe GP, Martin BR, Hill Gallant KM, **Warden SJ**, Weaver CM, Peacock M, Lewis RD. Vitamin D supplementation does not impact insulin resistance in black and white children. *J Clin Endocrinol Metab* 2016;101:1710-8.
- Lahm T, Frump AL*, Albrecht ME, Fisher AJ, Cook TG, Jones TJ, Yakubov B, Whitson J, **Fuchs RK**, Liu A, Chesler NC, **Brown MB**. 17beta-estradiol mediates superior adaptation of right ventricular function to acute strenuous exercise in female rats with severe pulmonary hypertension. *Am J Physiol Lung Cell Mol Physiol* 2016;311:L375-88.
- Lee CE, **Warden SJ**, Szuck B, Lau YK. A preliminary study on the efficacy of a community-based physical activity intervention on physical function-related risk factors for falls among breast cancer survivors. *Am J Phys Med Rehabil* 2016;95:561-70.
- **Li W**, Huang E. An update on type 2 diabetes mellitus as a risk factor for dementia. *J Alzheimers Dis* 2016;53:393-402.
- **Li W**, Risacher SL, McAllister TW, Saykin AJ. Traumatic brain injury and age at onset of cognitive impairment in older adults. *J Neurol* 2016;263:1280-5.
- Schmid AA, **Miller KK**, Van Puymbroeck M, Schalk N. Feasibility and results of a case study of yoga to improve physical functioning in people with chronic traumatic brain injury. *Disabil Rehabil* 2016;38:914-20.
- **Schultz MA**, Doty M. Why the history and physical examination still matter. *JAAPA* 2016;29:41-5.
- Sweigart LI, Umoren RA, **Scott PJ**, Carlton KH, Jones JA, Truman B, Gossett EJ. Virtual TeamSTEPPS(R) simulations produce teamwork attitude changes among health professions students. *J Nurs Educ* 2016;55:31-5.
- Uzer G, **Fuchs RK**, Rubin J, **Thompson WR**. Concise review: plasma and nuclear membranes convey mechanical information to regulate mesenchymal stem cell lineage. *Stem Cells* 2016;34:1455-63.

Video/Audio Podcasts, Blogs, and Other Contributions

- **Janson R** (2016). Advice from a Hand Therapist: 3D Printing and Hand Therapy. <http://blog.handcare.org/blog/2016/06/19/3d-printing-in-hand-therapy>
- Robinson M, Broussard K & **Fisher TF**. "Role of Occupational Therapy in Case Management and Care Coordination for Clients with Complex Conditions" published in *AJOT* March/April and was selected to be an AOTA Continuing Education offering through AOTA E-Learn.



Best Practices

- **Sharon Pape, MS, OTR** was a Panel Presenter at the Panel for Promotion to Senior Lecturer. IUPUI Office of Academic Affairs, April 5, 2016

Civic Engagement

- **Martina Allen, OTD, OTR**, supervised OT students at IU Student Outreach Clinic April 2 and April 23.
- **Martina Allen, OTD, OTR**, consulted at Center for Young Children on May 4.
- **Mary Beth Brown, PT, ATC, PhD**, served as an invited reviewer for the Indiana CTSI CTR Grant applications, spring 2016 grant cycle.
- **Mary Beth Brown, PT, ATC, PhD**, hosted preschool STEM children in her lab from the Center for Young Children's preschool in May to view various plants and pond water under the microscopes. The specific STEM objectives and Indiana Foundations Dr. Brown helped them work on through this visit were: Science 1.2: Investigate and describe observable properties of objects; Science 1.3: Discriminate between living and non-living items (bacteria growing in pond water, plants, and "clean" water); and Science 5.1: Use tools to extend investigations (microscopes) and identify self as scientific.
- **Amber Comer, JD, PhD**, was elected to IUPUI Faculty Council – At Large Representative, SHRS – ASRD Committee and Elected to SHRS – Governance Committee
- **Niki Munk, PhD, LMT**, was appointed to the IUPUI Council for Retention and Graduation.
- Department of Physical Therapy students representing the classes of 2017 and 2018 participated in the third annual Butler Basketball camp and 2nd annual Butler Football Camp for children with disabilities. **Dr. Peter Altenburger** coordinated the participation of the PT students with the Butler Basketball and Football Programs to provide a half-day skills camp for children.

External Awards and Appointments

- **Thomas Fisher, PhD, OTR, CCM, FAOTA**, was recognized at the Chancellor's Convocation in April for his AOTA Award of Merit.
- **Patricia Scott, PhD, MPH, OT, FAOTA**, was recognized as the 2016 TRIP Scholar Award recipient at the Chancellor's Convocation.
- **Mary Beth Brown, PT, ATC, PhD**, was appointed to the 2016 American Heart Association Scientific Sessions Meeting Program Committee to serve as reviewer.
- **Robin Fuchs, PhD, FACSM**, served as a member of the American Society of Bone and Mineral Research Enhancing Clinical/Basic Interactions Champions Group.
- In May, two dietetic interns were co-winners of the Indiana Society for Enteral and Parenteral Nutrition (ISPEN) Case Study Award. Maggie Kilbride* won for her case "Medical Nutrition Therapy for a Major Digestive Tract Surgery and Megan McDermett* for her case study "Anastomotic Gastric Ulcer". In addition to preparing a written case study, finalists met with the ISPEN Case Study Awards Committee and presented their case study. This is the second year in a row that SHRS Dietetic Interns won the ISPEN Case Study Award.