



SCHOOL OF HEALTH AND REHABILITATION SCIENCES

INDIANA UNIVERSITY
IUPUI

Dean's Update

January – March 2011

Student Activities/Accomplishments:

- Kisha Virgil, a student in the PhD program, was selected to participate as a conference intern for the 21st Annual Art and Science of Health Promotion Conference, March 21-25, Colorado Springs, CO. Ms Virgil was among 15 interns at the conference attended by 600 health promotion and wellness specialists and researchers. The interns were individually introduced at the conference during the opening keynote address and were characterized as “the future leaders in wellness”.
- Lauren Loper, Dietetic Intern, contributed four articles which will appear in upcoming publications from Hendricks Regional Medical Center in Danville. The articles are “Kids in the Kitchen”, “Updated Dietary Guidelines”, “Festive Fiesta Cooking” and “Spring has Sprung (Farmer’s Markets.” Laura solved the ongoing “carrot issue” by identifying a softer, prettier mini baby carrot for use on the room service menu. The new product will replace a carrot that patient’s described as “hard” and complained about frequently. Perhaps Lauren’s most lasting project at Hendricks is the detailed, explicit equipment competencies she developed which are the foundation for all employee training on maintenance and safe use of all kitchen equipment at Hendricks Regional Medical Center.
- The PhD in Health and Rehabilitation Sciences degree program admitted four new students in spring 2011: Waleed Alzahrani, Raid Al-Zhranel, Alaa Bugis, and Capi Scheidler. We now have 18 active students enrolled in the program.
- 30 current DPT students and recent alumni attended the American Physical Therapy Association National Combined Sections Meeting in February. Physical Therapy students, faculty, and alumni provided talks, presented research, and attended sessions throughout the four day event.
- Brian Duff, OT student, won the Carol D. Nathan Leadership Award
- Sage Weaver, Kimberly Biberstein, Jackson Gall, and James Kinder (OT

students) were awarded the Carol Duke Nathan Occupational Therapy Fellowship Scholarship.

- Six OT students (Betsy Powers, Sage Weaver, Holly Isler, Kimberly Biberstein, Kimberly Bayston, Brock Gorman) received the Belzer Fellowship Scholarship.

National Activities

- Student Research Presentations at the APTA Combined Sections Meeting New Orleans:
 - Student platform presentation:
 - **Backler J**, Strunk V, **Gabet J**, Bayliss AJ. Measurement of Empathy Changes During a Physical Therapist's Education and Relationship to Gender. Combined Sections meeting of the American Physical Therapy Association, New Orleans, LA, February 11th, 2011.
 - Student Poster Presentations
 - **Phipps RL**, **Carney SL**, Loghmani MT, Bayliss AJ. An Innovative Manual Therapy Approach for the Treatment of patients with Achilles Tendinopathy: a case series. Combined Sections meeting of the American Physical Therapy Association, New Orleans, LA, February 11th, 2011.
 - Bayliss AJ, **Whaley Z**, **Krueger N**, **Lim S**. Comparison of 2 models of service learning within a DPT program: success through student-faculty collaboration. Combined Sections meeting of the American Physical Therapy Association, New Orleans, LA, February 11th, 2011.
 - Loghmani MT, **Gundek EL**, **Clayton G**, Bayliss AJ. Successful Treatment of a Guitarist with a finger-joint sprain using instrument-assisted soft tissue mobilization: A Case Study. Combined Sections meeting of the American Physical Therapy Association, New Orleans, LA, February 11th, 2011.

Regional Activities

- Platform presentations
 - **Davey K**, **Holtz B**, **Phipps RL**, **Carney SL**, Loghmani MT, Bayliss AJ. An Innovative Manual Therapy Approach for the Treatment of patients with Achilles Tendinopathy: a case series. INAPTA Central District meeting, March 8th, 2011.

- Backler J, Strunk V, Gabet J, Bayliss AJ. Measurement of Empathy Changes During a Physical Therapist's Education and Relationship to Gender. INAPTA Central District meeting, March 8th, 2011.

Local

- **Holtz BJ, Davey KN, Engelman N, Kaeser C, Wood-Vossment K, Bayliss AJ, Loghmani MT.** A conservative manual therapy approach using instrument-assisted soft tissue mobilization for the treatment of bilateral plantar fasciitis: a case series. Poster abstract accepted for IUPUI Research Day. Finalist award.
- Doctoral Students working with PT Faculty
 - **Sara M. Mantila Roosa**, PhD (post-doctoral fellow within Dr. Warden's laboratory) was awarded the Charles H. Turner Young Investigator Bone Research Award from Indiana University to attend the Advances in Mineral Metabolism AIMM/ASBMR John Haddad Young Investigators Meeting.
 - **Sara M. Mantila Roosa**, PhD (post-doctoral fellow within Dr. Warden's laboratory) was awarded an American Society of Bone and Mineral Research Young Investigator Award at the 2011 Forum on Aging and Skeletal Health.

Faculty Activities/Accomplishments:

- The School, under the leadership of Gaylen Kelton, MD, Program Director, Master of Physician Assistant Studies, submitted its application for provisional accreditation to the Accreditation Review Commission on Education for the Physician Assistant. Our site visit is scheduled for May 16 and 17.
- Dr. Warden was appointed as an Associate Editor of the *Journal of Musculoskeletal and Neuronal Interactions* and Editorial Board Member of the journal *Bone*.
- Dr. Fuchs was invited to be a member of the Editorial board for the *Journal of Osteoporosis*.
- Dr. Dierks, Dr. Altenburger, Dr. Ryan Cardinal, along with Dr. Deborah Hamby, and Pauline Flesch were awarded the Anita Slominski Caring Award from the United Cerebral Palsy Association of Greater Indiana on March 12, 2011.

International Activities

- Dr. Fengyi Kuo has been invited to serve as faculty facilitator for the Sino-NMA (Norwegian Mission Alliance) curriculum development project for OT Educators in China. This is a joint project between NMA and Chinese Association of Rehabilitation Medicine (CARM) with support from the World Federation of Occupational Therapists (WFOT) (March, 2011 – present).

- Dr. Fengyi Kuo was elected Delegate of the Pan-Pacific & South-East Asia Women's Association (PPSEAWA) of Taiwan, ROC to present at the 55th United Nations NGO/CSW (Commission on the Status of Women) Conference in NYC (February 21st- March 4th, 2011).

National Activities

- Dr. Warden recorded a podcast for the *Physical Therapy* journal manuscript 'Full-text publication of abstract-presented work in physical therapy: do therapists publish what they preach?' [<http://ptjournal.apta.org/content/91/2/234/suppl/DC1>]

Community Engagement

- Dr. Fengyi Kuo was appointed chair of the advisory board for the programming committee for the Heritage Place of Indianapolis, Inc. in Indianapolis, IN (March, 2011 – present).
- Dr. Christina Mushi-Brunt has established a partnership with the Near West Indy Collaborative to develop health initiatives for its five year Quality of Life Plan. The first of these community based health promotion initiatives is a pilot study of resident designed community gardens. Dr Mushi-Brunt will study community produce gardens as a promising strategy to address disparities in food access and produce consumption among residents in low income communities.
- Dr. Fengyi Kuo conducted community outreach at the Jameson Camp Health Fair for Indiana University Health, Riley Hospital for Children, Community Education and Child Advocacy (March 19th, 2011).
- Dr. Gaylen Kelton provided faculty oversight in January and March at the IU Student Outreach Clinic.
- Dr. Fengyi Kuo was appointed to the Board of Directors for the Burmese Community Center for Education (BCCE) in Indianapolis, IN (February, 2011 – present).

Publications

- **Scott PJ.** Participation in Valued Roles Post Liver Transplant. In Press, *British Journal of Occupational Therapy*. 2010.
- Smith HD*, Bogenschutz ED*, **Bayliss AJ, Altenburger PA, Warden SJ:** Full-text publication of abstract-presented work in physical therapy: do therapists publish what they preach? *Physical Therapy* 2011; 91:234-45 (*DPT students).
- Golomb MR, **Warden SJ**, Fess E, Rabin B, Yonkman J, Shirley B, Burdea GC: Maintained hand function and forearm bone health 14 months after an in-home

- virtual-reality videogame hand telerehabilitation intervention in an adolescent with hemiplegic cerebral palsy. *Journal of Child Neurology* 2011; 26:389-93.
- **Mac Kinnon J**, Friedrich Nel H. Student learning outcomes assessment in radiography within the context of a national higher education quality framework. *Journal of New Generation Scientist*, 2010, vol 8, no 1, pp 108-121.
 - Holtz BJ, Davey KN, Engelman N, Kaeser C, Wood-Vossment K, **Bayliss AJ**, **Loghmani MT**. A conservative manual therapy approach using instrument-assisted soft tissue mobilization for the treatment of bilateral plantar fasciitis: a case series. The EDGE, Spring Edition. Article for web-based publication distributed internationally to over 10,000 clinicians.
 - **Dierks TA**, Manal KT, Hamill J, Davis I. Lower extremity kinematics in runners with patellofemoral pain during a prolonged run. *Medicine and Science in Sports and Exercise*, 2011; 43:693-700.
 - **Fuchs RK**, Faillace MK, Allen MR, Phopps RJ, Miller LM, Burr DB. Bisphosphonates do not alter the rate of secondary mineralization. Accepted for publication in *Bone*.
 - **Crabtree, J.** (in press). Neuro-Occupation: the confluence of neuroscience and occupational therapy. (Translated by Asako Matusbara, OT, PhD) *Japanese Journal of Occupational Therapy*. (Invited).
 - **Schmid, A. A.**, J. Andersen, et al. (2010). "Using intervention mapping to develop and adapt a secondary stroke prevention program in Veterans Administration Medical Centers." *Implementation Science*.
 - Golomb, M. R., **Warden, S. J.**, **Fess, E. E.**, Rabin, B., Yonkman, J., Shirley, B., et al. (2011). Maintained hand function and forearm bone health 14 months after an in-home virtual-reality videogame hand telerehabilitation intervention in an adolescent with hemiplegic cerebral palsy. *J Child Neurol*, 26(3), 389-393. doi: 26/3/389 [pii] 10.1177/0883073810394847.
 - **Fisher, T. F.**, & Sepanski, B. (2011). Psychosocial Occupational Therapy in the public schools in Indiana. *AOTA Early Intervention and School System Special Interest Section Quarterly*, Bethesda, MD: AOTA Press, 18(1), 1-4.
 - **Fisher, T. F.**, & Harbeck -Gardner, J. (2012). Computer workstation analysis: the effect of an occupational therapy intervention (In Press 2012). *WORK: A Journal of Assessment, Prevention & Rehabilitation*.
 - **Fisher, T. F.**, Brodzinski-Andreae, B., & Zook, S. (2010). Employee perception of injury prevention education from an Occupational Therapist. *British Journal of Occupational Therapy*, 72(10), 450-458.

- **Liu, C.-J.**, Fleck, T., Goldfarb, J., Green, C., & Porter, E. (2011). Attitudes to colorectal cancer screening after reading the prevention information (In Press) *Journal of Cancer Education* (March 2011 ed.).
- Van Puymbroeck, M., **Schmid, A. A.**, Hsieh, P. C., & Shinew, K. (2011). Influence of Hatha Yoga on the physical fitness, physical activity constraints, and body image of breast cancer survivors: a pilot study. . *International Journal of Yoga Therapy*.
- **Schmid, A.A.**, Sutherland, J. M., Kroenke, K., Hendrie, H. C., Bakas, T., & Williams, L. S. (2011). The Impact of Post-stroke Depression on Functional Outcomes (In press),. *Neurology*.
- **Schmid, A. A.**, Kroenke, K., Hendrie, H. C., Bakas, T., Sutherland, J. M., & Williams, L. S. (2011). Poststroke depression and treatment effects on functional outcomes. *Neurology*, 76(11), 1000-1005. doi: 76/11/1000 [pii] 10.1212/WNL.0b013e318210435e
- Van Puymbroeck, M., Smith, R., & **Schmid, A.A.** (2011). Yoga as a means to negotiate physical activity constraints in middle aged and older adults (In press). *International Journal on Disability and Human Development*.

Presentations

- **Dr. Warden** participated in an Education session at the American Physical Therapy Association Combined Sections Meeting, New Orleans, LA (Feb 10th, 2011) entitled 'Barefoot running: so easy a caveman did it! Co-presenters: Daniel Lieberman and Irene Davis (Harvard University).
- **Mac Kinnon J, Robbins C, Wolf, J.** Prosthetic use among veterans with war related amputation forty years post injury. Poster presentation at the APTA Combined Sections meeting, New Orleans, LA, February 12, 2011.
- **Mac Kinnon J, Robbins C, Wolf, J.** Cardiovascular disease and Vietnam veterans with war related amputations: Forty years post injury. Presentation at the APTA Combined Sections meeting, New Orleans, KA, February 11, 2011.
- **Schmid, A.** (2011). *Maintaining function with age and Alzheimer's disease*. Paper presented at the Indiana Alzheimer Disease Center, Spring Symposium, Indianapolis, IN.
- **Schmid, A. A.**, Gerwig, A. N., Miller, K. K., Schalk, N., Van Puymbroeck, M., **Altenburger, P.**, et al. (2011). Preliminary Evidence of Yoga on Balance and Endurance Outcomes for Veterans with Stroke *American College of Sports Medicine*. Denver, CO.

- Barnes, F., Hauang, E., **Scott, P. J.**, & London, S. (2011). *Poster Session: The role of today's mobile tablet technology in the classroom*. Paper presented at the Edward C. Moore Symposium, IUPUI, Indianapolis, IN.
- **Scott, P. J.**, Mehta, R., Djuricich, A., Wood, D., Galyean, E., Robinson, S., et al. (2011). *Poster Session: "I have an app for that": utilizing iPad innovation in Occupational Therapy, Medicine, and Social Work education*. Paper presented at the Edward C. Moore Symposium, IUPUI, Indianapolis, IN.
- Virgil K, **Mushi Brunt C**, Agbonhese J. Ending food disparities: Is it as simple as adding large grocery stores? Presented by Kisha Virgil, PhD in Health and Rehabilitation Sciences student at the 21st Annual Art and Science of Health Promotion Conference, Colorado Springs, CO, March 21.
- **Loghmani, MT** was an invited speaker for the INHand Spring Conference. Her talk was titled, "Successful Treatment of a Guitarist with a Finger Joint Injury Using Instrument-Assisted Soft Tissue Mobilization Proposed Mechanisms".
- **Scott, P. J.** (2011). *The role checklist as an outcome measure and the issue of response shift*. Paper presented at the 2nd Annual International Institute on the Model of Human Occupation, Chicago, IL.
- **Fess, E. E.** (2011). *Clinical assessment of the hand, Workshop session II*. Paper presented at the Surgery and Rehabilitation of the Hand with Emphasis on the Elbow and Shoulder, Philadelphia, PA.
- **Fess, E. E.** (2011). *Orthotic intervention for lateral epicondylitis, a systematic review*. Paper presented at the Surgery and Rehabilitation of the Hand with Emphasis on the Elbow and Shoulder, Philadelphia, PA.
- **Fess, E. E.** (2011). *Clinical assessment of the hand, Workshop session I*. Paper presented at the Surgery and Rehabilitation of the Hand with Emphasis on the Elbow and Shoulder, Philadelphia, PA.
- **Fisher, T. F.** (2011). *Professional trends and issues and the research component of the IU OT program*. Paper presented at the Xavier faculty and students seminar, Xavier University, Cincinnati, Ohio.
- **Kuo, F.** (2011). *Natural Disaster and Global Mental Health Action Plan: Lessons Learned from Harvard Program in Refugee Trauma*. Departments of Psychiatry, Nursing, and Psychology, Tzu Chi Memorial Hospital, Hualien, Taiwan (January 3rd, 2011).
- **Fisher, T. F.** (2010). Predictors of social role functioning after stroke *International Stroke Conference*. San Antonio, TX.

- Williams, LS., Chumbler, N., Bravata, DM., **Schmid AA**. Patient and Facility Characteristics Associated with Discharge to Inpatient Rehabilitation Post-Stroke. American Stroke Association International Stroke Conference, Los Angeles, CA, Feb 9-11, 2011.
- **Loghmani MT, Warden SJ**. Instrument-Assisted Cross Fiber Massage Alters Regional Microvascular Morphology in Healing Knee Ligaments Suggesting Possible Angiogenesis. Abstract JOSPT Jan 2011.

Grants

- Physical Therapy Department faculty **Valerie Strunk** (PI), **Peter Altenburger** (Co-PI) and adjunct faculty member and alumnus Bobby Lassiter (Co-PI) have been awarded a one year IUPUI Curriculum Enhancement Grant in the amount of \$18,100.00. The goal of the project is to study the implementation and effectiveness of an Integrated Clinical Education model. The educational approach involves a partnership with IU Health beginning in the fall of 2011.
- **Dr. Dierks** and **Dr. Altenburger** are co-investigators on a grant awarded to Blythedale Children's Hospital through the Pedal for Pete Foundation in the amount of \$25,000. The title of the project is "Collaborative Study of Robotic Assisted Therapy in Children." The goal of this study is to develop effective communication between several different clinical sites conducting the same research protocol with the intention of fostering a strong proposal for a NIH multicenter trial.
- **Schmid, A.A.** (2011). Yoga as a Complex Intervention for Veterans with Stroke, Project #: RRP 09-195 (extension of existing grant): Health Services Research and Development Quality Enhancement, Research Initiative (QUERI).
- **Scott, P. J., Schmid, A.A.** (2011). Learning Enhancement Grant, (\$25,000) submitted to IUPUI CTL to renovate 1500 sq feet in the basement of Coleman Hall to create a SHRS Teaching/Learning Environment.

Other

- Patricia Scott PhD, MPH, OT, FAOTA has been selected to participate in the Teaching and Learning with Mobile Tablets Faculty Learning Community (FLC) in the Health Professions. There were nearly 60 applications submitted from across the campus, and her proposal was among one of eight chosen for acceptance by a faculty review committee for the iPad FLC in the health professions. As a result Dr. Scott received an iPad and \$750.
- Dr. Joyce Mac Kinnon is hosting Dr. Friedrich-Nel from the Central University of Technology in Bloemfontein, South Africa, for a three month Fulbright Scholar

Program. Dr Friedrich-Nel's focus will be on formative assessment of graduate work.

- Patricia Scott was interviewed about her research on recovery post-transplant for the show "Full Circle" that aired November 2, 6, and 11th on channel 40 in Noblesville, IN.
- On March 21, Charlotte Neumann MD, MPH visited the IUPUI campus as a guest of SHRS. Her presentation "The Growth & Development of Nutrition Research in sub-Saharan Africa over the Past Half-Century" was attended by the Department of Nutrition & Dietetics students, interns, faculty and guests from the nutrition and dietetics community in Indianapolis as well as IUPUI faculty. Dr Neuman is an Emeritus Professor of Pediatrics in the Schools of Medicine and Public Health at UCLA. She is known for her nutrition intervention research in women and children particularly in Africa and India. She is the 2010 recipient of the Nevin Scrimshaw Award which recognizes contributions in international nutrition. Dr. Neumann is a Co-principle investigator with Dr. Judy Ernst for the study "Increasing Animal Source Foods in Diets of HIV-infected Kenyan Women and Their Children" which is being conducted in Kenya with Indiana University and Moi University.