

ANNUAL REPORT

2007

Department of Physical Therapy Vision Statement

The UIC PT Department envisions itself to be a national leader in providing a continuum of high quality education including entry level DPT, post-professional, fellowship, and PhD graduate education programs with a focus on the production and application of science and scholarship to drive clinical practice. The department is a collaborative, intellectual, harmonic community with its identity uniquely framed by close collaboration with the UI Medical Center which provides first hand learning of clinical skills in an urban environment.

Department of Physical Therapy Mission Statement

The mission of the Department of Physical Therapy is multifaceted, supporting the overall mission and vision of UIC, an urban, comprehensive, public research university. The Department, like the University, strives to pursue excellence in education, research, and service.

The mission of the Department is to:

- Educate practitioners and scholars in the practice and science of physical therapy.
- Advance and apply research and scholarship in movement and rehabilitation sciences.
- Provide related services to benefit individuals, communities, and the profession of physical therapy.

"The evidence reviewed supports that the UIC DPT program is meeting its mission in providing a high quality education for physical therapists that promotes scholarship and research in movement and rehabilitative sciences and instills a commitment to service to the community and the profession." (p. 9)

Report of the On-Site Review Team, CAPTE, 2007

TABLE OF CONTENTS

Grants Submitted	7
Grants Funded	9
Publications	11
Presentations and Workshops – Faculty	13
Presentations and Workshops –Students	17
Awards and Recognition –Faculty	19
Awards and Recognition –Students	21
Hosted Events	23
Academic Programs – Doctor of Physical Therapy	25
Academic Programs – Master Of Science In Physical Therapy	29
Academic Programs –Fellowship In Orthopedic Manual Physical Therapy	29
Faculty Roster	31
Clinical Laboratories	37
Faculty Professional Service	41
University Of Illinois Medical Center (UIMC) Staff	43
UIMC Staff Roster	44
Staff Roster	49

GRANTS SUBMITTED

Aruin, Alexander, PI, *Pre-Gait Rehabilitation in Acute Stroke Patients*, 2007-2009, \$140,000.

Aruin, Alexander, PI, *Role of Auxiliary Sensory Cues in Control of Grip Force*, National Institutes of Health RO-1, 2008-2013, \$1,766,250.

Bulanda, Michelle, PI, Susan Cahill, Co-PI, *Preparing Occupational and Physical Therapy Student: An Innovative Model for Increasing Participation and Inclusion for Children with Low – Incidence Disabilities in Urban Environments*, Dept. of Education, 2008-2012, \$796,346.

Hornby, TG, PI, *Baclofen-induced Depression of Walking Function and Training Efficacy in Motor Incomplete Spinal Cord Injury*, NIDRR/Field Initiated Proposal, 2008-2011, \$455,354.

Schmit BD., PI **Hornby, TG**, Co-PI, *Reflex Regulation of Motor Function in Human SCI*, NATIONAL INSTITUTES OF HEALTH RO1, 2008-2013, \$1,250,000 direct costs.

Hornby, TG, *Challenging The Concept Of A “Plateau” in Locomotor Recovery Post-stroke*, AHA, 2008-2010, \$150,000.

Hornby, TG, *Contribution of Increasing Age to Physical Therapy Delivery and Locomotor Plateau Post-stroke*, RFF, 2008-2011, \$220,000.

Pai, Y-C, PI, *Motor Training For Fall Prevention: Adaptation and Retention In Older Adults*, 2007-2012, \$1,906,678.

Migrino, Raymond, PI and **Phillips, Shane**, Co-I, *Vascular Dysfunction and Oxidative Stress in Primary Amyloidosis*, 2007-2009, co-investigator evaluating the effects of amyloid protein on vascular disease in patients with heart disease from amyloidosis, \$30,000.

Migrino, Raymond, PI and **Phillips, Shane** Co-I, *RO1 Vascular Dysfunction and Oxidative Stress In Primary Myloidosis*, 2007-2012, \$1,250,000.

Quinn, Laretta, PI and **Phillips, Shane** Co-I, *Metabolic and Vascular Responses to Morning and Evening Aerobic Exercise*, University of Chicago Diabetes Research and Training Grants, \$40,000, 2 years.

Phillips, Shane, PI, *Exercise Induced Hypertension and Vascular Dysfunction*, 2008-2009, \$10,000.

GRANTS FUNDED

Aruin, Alexander, PI, *Compelled Body Weight Shift Therapy in Individuals with Stroke Related Hemiparesis*, R21, National Institutes of Health, 2006-2009, \$342,114.

Aruin, Alexander, PI, *Enhancement of Grip Force Control in Individuals with Multiple Sclerosis*, National Multiple Sclerosis Society, 2006-2008, \$43,900.

Kielhofner, G, **Aruin, Alexander**, Co-PI, Heller, T, Co-PI, *Advanced Training in Translational and Transformational Research to Improve Vocational Outcomes for Persons with Disabilities*, NIDRR, US Department of Education, 2006-2011, \$750,000.

Aruin, Alexander, PI, *Role of Auxiliary Sensory Cues on Balance in Peripheral Neuropathy*, RO3, National Institutes of Health, 2007-2009, \$155,000.

Bulanda, Michelle, Project Coordinator, *Preparing Early Intervention Professionals to Work with Underserved Children and Families from Urban Environments*, 2002-2007, \$1,400,000.

Campbell, Suzann, PI, *A Clinical Trial of Physical Therapy to Promote Locomotion in Infants with White Matter Injury*, UIC Center for Clinical and Translational Science, 2007-2012, \$86,320.

Campbell, Suzann, Consultant, *National Institutes of Health Toolbox for Assessment of Neurological and Behavioral Function*, ENH Research Institute, 2006-2008, \$35,048.

Jack Zwanziger, PI, **Campbell, Suzann**, Director, Recruitment and Admissions, *Clinical Research Training Program*, National Institutes of Health, 2005-2010, \$900,000.

R White-Traut, PI, **Campbell, Suzann**, Co-I, *Feeding and Transition to Home for Preterms at Social Risk*, National Institutes of Health, 2007-2012, \$844,164.

J Warnecke, PI, **Campbell, Suzann**, Co-I, *Building Capacity for Health Disparities Research*, 2006-2011, \$118,582.

Courtney, Carol, PI, Arthritis Foundation, *Flexor Withdrawal Response in Individuals with Osteoarthritis of the Knee*, 2007-2008, \$100,000.

Hornby, Thomas George, PI, *Short And Long Tem Adaptation Of Over Ground Ambulation in Subjects Following Chronic Stroke Following Robotic-Assistance Body Weight Supported Gait Training*, Rehab Institute of Chicago, 2004-2008, \$119,218.

Hornby, Thomas George, PI, *Development Of Low-Cost Devices to Increase Delivery of Intensive Treadmill Training*, Res Proj 1, Institute for Rehabilitation and Research, Midwest Spinal Cord Injury Care System, 2006-2008, \$12,442.

Hornby, Thomas George, PI, *Enhanced Motor Recovery Using Serotonergic Agents*, Rehab Institute of Chicago, 2006-2007, \$29,435.

Pai, Clive, PI, Yang, Feng Co-PI, Scott, Michael, Co PI, *Role of Walking Stability in Falls Among the Elderly*, RO1 – NATIONAL INSTITUTES OF HEALTH, 2003-2008 \$1,873,743.

Rimmer, J PI, **Pai, Clive** Co-I, *Development of Broadly Applicable Modification Kits for Retrofitting LifeFitness Cardiovascular Exercise Equipment*, Research Center Grant, NIDRR, US Department of Education, 2002-2007, \$4,498,913.

Rimmer, J PI, **Pai, Clive** Co-I, National Institutes of Health/NICHHD, *Universal Exercise Kits for Manual Wheelchair Users*, 2005-2007, \$120,000.

Phillips, Shane, PI, *Center for Clinical and Translational Science Scholar Award*, 2007-2010, \$50,000, mentored training in translational research in UICs CCTS program.

Phillips, Shane, PI, National Institutes of Health *K23- Mechanisms Of Exertional Hypertension And Vascular Dysfunction*, 2007-2012, \$644,649, Patient oriented research evaluating the effects of chronic and acute exercise on inflammation and vascular health.

PUBLICATIONS

- Takako S, **Aruin A**. Modulation of Anticipatory Postural Adjustments Associated with Unloading Perturbation: Effect of Characteristics of a Motor Action. *Experimental Brain Research* 2007, 178(2):206-215
- Iyengar V, Santos M., **Aruin A**. Does the location of the touch from the contralateral finger application affect grip force control while lifting an object? *Neuroscience Letters*, 2007, 425(3):151-155.
The first author is a Physical Therapy MS student.
- Li X, **Aruin A**. The Effect of Short-Term Changes in the Body Mass on Anticipatory Postural Adjustments. *Experimental Brain Research*, 2007 Apr 12; [Epub ahead of print]
The first author is a PhD student.
- Li X, Zhou P, **Aruin A**. Teager-Kaiser Energy Operation of Surface EMG Improves Muscle Activity Onset Detection. *Annals of Biomedical Engineering*, 2007, 35(9):1532-1538
The first author is a PhD student.
- Zultowski I, **Aruin A**. Carrying loads and postural sway: The effect of load placement and load magnitude. *WORK, a Journal of Prevention, Assessment and Rehabilitation* accepted for publication. The first author is a Doctor of Physical Therapy student
- Shenoy S, **Aruin A**. Effect of Chair Design on Feedforward Postural Control in Sitting. *The International Journal of Motor Control*, 11(4): 309-321. The first author is a Physical Therapy MS student.
- Santos M, **Aruin A**. Role of lateral muscles and body orientation in feedforward postural control. *Experimental Brain Research*, 2007 Oct 2. In collaboration with Marcio Santos (Postdoc, PT).
- Barbosa VM, **Campbell SK**, Berbaum M. Discriminating infants from different developmental outcome groups using the Test of Infant Motor Performance (TIMP) item responses. *Pediatr Phys Ther.* 2007;19:28-39. The first author was the first graduate of the PhD in Disability Studies program and this is the third publication from her dissertation.
- Zawacki L, **Campbell S**. From Observation to Rehabilitation. In Cioni G, Mercuri E, Neurological Assessment in the First Two Years of Live. *Clinics in Developmental Medicine*, No. 176. London, Mac Keith Press, 2007, pp.230-245.
- Stauffer EK, McDonagh JC, **Hornby TG**, Reinking RM, Stuart DG. Historical Reflections on the After-hyperpolarization-firing Rate Relation of Vertebrate Spinal Neurons. *J Comp Physiol A Neuroethol Sens Neural Behav Physiol.* 2007 Feb;193(2):145-58.
- Lewek MD, **Hornby TG**, Dhaher YY, Schmit BD. Prolonged Quadriceps Activity Following Imposed Hip Extension: A Neurophysiological Mechanism for Stiff-Knee Gait? *Neurophysiol*, 2007.

- Bogey RA, **Hornby TG**. Gait Training Strategies Utilized in Poststroke Rehabilitation: Are We Really Making a Difference? *Top Stroke Rehabil*, 2007 14(6):1-8.
- Hornby TG**, Campbell DD, Kahn JH, Demott T, Moore JL, Roth HR. Enhanced Gait-Related Improvements Following Therapist- Vs. Robotic-Assisted Locomotor Training in Subjects with Chronic Stroke: A Randomized Controlled Study. *Stroke*, 2007.
- Maxeiner A, Book Review** Flexible Working and Organizational Change: The Integration of Work and Personal Life. *Human Resource Development International*, September 1 2007.
- Pavol MJ, **Pai Y-C**, (2007). Deficient Limb Support Is A Major Contributor to Age-Differences in Falling. *Journal of Biomechanics*, 40: 1318–1325. Epub July 28, 2006.
- Pai Y-C**, Bhatt T. (2007). Repeated Slip Training: An Emerging Paradigm for Prevention of Slip-related Falls in Older Adults. An Invited Perspective, Invited Commentary, and Author Response. *Physical Therapy*, 87: 1478-1494.
- Phillips SA**, O.A. Hatoum, D.D. Gutterman. The Mechanism of Flow-Induced Dilation in Human Adipose Arterioles Involves Hydrogen Peroxide During CAD. *American Journal of Physiology: Heart and Circulatory Physiology* 292. H93-H100. 2007.
- Phillips SA**, Effects of Low Carbohydrate Diet on Vascular Health: More than just Weight Loss. *American Journal of Physiology: Heart and Circulatory Physiology* 292: H2037-H2039, 2007.
- Millis S, **Straube D**, Iramaneerat C, Smith E, Lyden P. Measurement Properties of the National Institutes of Health Stroke Scale for People with Right – and Left – Hemisphere Lesions: Further Analysis of the Clomethiazole for Acute Stroke Study – Ischemic (Class I) Trial. *Archives of Physical Medicine and Rehabilitation*, March 2007.
- Yang F**, Anderson FC, **Pai Y-C**, (2007). Predicted Threshold Against Backward Balance Loss In Gait. *Journal of Biomechanics*, 40: 804–811. Epub May 24, 2006.
- Yang F, Pai Y-C**. Correction of the Inertial Effect Resulted from a Plate Moving Under Low Friction Conditions. *Journal of Biomechanics*, 40: 2723–2730. Epub Feb 14, 2007.

PRESENTATIONS AND WORKSHOPS – FACULTY

AMERICAN PHYSICAL THERAPY ASSOCIATION COMBINED SECTIONS MEETING (CSM)

February, 2007. Boston, Massachusetts.

Predictive Validity of the Test of Infant Motor Performance Screening Items.
Suzann Campbell. Platform Presentation.

Identification of potential factors suggesting double crush phenomenon: two case reports. **Carol Courtney.** Poster Presentation.

Teaching the appropriate use of humor in the clinic: A model.
Amy Maxeiner. Poster Presentation.

“... Faculty participation in APTA specialty sections contributes to an awareness of contemporary practice, research, and education.” (p. 28)
Report of the On-Site Review Team, CAPTE, 2007

AMERICAN PHYSICAL THERAPY ASSOCIATION ANNUAL CONFERENCE AND EXPOSITION

June 2007. Denver, Colorado.

Assessing Workforce Research Needs in Occupational and Physical Therapy
Mary T. Keehn, PT, DPT, MHPE, Gail Fisher, MPA, OTR/L. Platform Presentation

UIC - John H. Stroger Hospital Physical Therapy (PT) Department Service Learning Project

Jean Rogers, PT, MA, Suzanne Harrington, PT, MS, ATC, Jessica Greve, PT, DPT, Corinne Shannon, PT, DPT, Sarah DelMonaco Serritella, PT, DPT, Cristina Hofman, PT, DPT, Nani Bien, PTA, Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL, Occupational and Physical Therapy Department, John H. Stroger Hospital of Cook County, Chicago, IL, USA. Poster Presentation

ADDITIONAL PRESENTATIONS AND WORKSHOPS

Aruin A, Santos M. (August 2007) Activation of lateral muscles prior to multidirectional perturbation in standing. International Conference "Progress in Motor Control VI". Santos, Brazil.

Aruin A, Rao N, Nashner L. (August 2007) Perceived Body Vertical in Standing Patients with Stroke. International Conference "Progress in Motor Control VI". Santos, Brazil.

Aruin A, Santos M. (August 2007) Feedforward postural control in standing: role of lateral muscles and body orientation. 2007 Annual Conference of the American Society of Biomechanics.

Aruin A, Rao N (October 2007) New approaches in Stroke rehabilitation. International Conference "From Basic Motor Control to Functional Recovery". Sofia, Bulgaria.

Aruin A, Rao N, Hasso D, Chaudhuri G, D'Souza K.(September 2007) Gait Assessment in a Clinical Setting During the Initial Fitting of an Ankle-Foot Orthosis in Persons With Acute Stroke. 68th Annual Assembly of American Academy of Physical Medicine and Rehabilitation. Boston, Massachusetts.

Aruin A, Rao N, Nashner L. (September 2007) Measurement of Perceived Body Vertical in Patients With Stroke-Related Visuospatial Deficit. 68th Annual Assembly of American Academy of Physical Medicine and Rehabilitation. Boston, Massachusetts.

Aruin A, (October 2007) Stroke rehabilitation: what can we offer? State Research Institute for Biomedical Problems RSA Regional seminar. Moscow, Russia.

Bulanda M, Cahill S. (2007) Innovative Models of Pediatric Occupational and Physical Therapy. Summer 2007 course was funded as a Summer Interdisciplinary Seminar by the UIC Graduate College.

Campbell S. (June 2007) Test of Infant Motor Performance workshops. Participants included approximately 100 physicians and therapists from 10 European countries and Israel. Warsaw, Poland, and Berne, Switzerland with Gay L. Girolami, PT, MS, doctoral student in Movement Sciences.

Campbell S & Zawacki L. (March 2007) The Test of Infant Motor Performance. Contemporary Forums Conference on the Special Needs Child.

Campbell S (July 2007) Validation of the Test of Infant Motor Performance and A Pilot Study to Promote Locomotion in Infants with Perinatal White Matter Injury. Presentation for Hong Kong Pediatric Special Interest Group (50 therapists). Hong Kong.

Campbell S (September 2007) 2-hour lecture on the Test of Infant Motor Performance. University of Pisa. Pisa, Italy.

- Campbell S** (October 2007) Presented The Test of Infant Motor Performance. California Chapter, American Physical Therapy Association. Los Angeles, California.
- Campbell S** (October 2007) Consultation on Pediatric DPT Curriculum Content. University of Southern California, Los Angeles, California.
- Courtney C**, Lewek MD, Witte PO, Hornby TG. (October 2007) Exaggerated flexor reflexes observed with knee osteoarthritis are diminished following joint mobilization. Musculoskeletal Physiotherapy Australia 15th Biennial Conference. Cairns, Australia.
- Courtney C**, Lewek MD, Witte PO, Hornby TG. (October 2007) Joint mobilization and volitional contraction modulate flexor withdrawal responses in subjects with knee osteoarthritis. American Academy of Orthopedic Manual Physical Therapy Annual Conference. St Louis, Missouri.
- John D.** (February 2007) Relationship of Personal, Attitudinal, and Environmental factors to Exercise in Persons with Disability. Active Living Research Annual Conference (Robert Wood Johnson Foundation). San Diego.
- John D.** (June 2007) Relationship of Personal, Attitudinal, and Environmental factors to Exercise in Persons with Disability World Physical Therapy. World Congress of Physical Therapy. Vancouver, Canada.
- Keehn MT.** (February 2007) Strengthening the Professional Culture of your Practice Setting. University of Chicago Physical Therapy Professional Issues Workshop.
- Keehn MT.** (February 2007) Strengthening the Professional Culture of your Practice Setting. Marionjoy Rehabilitation Hospital Physical Therapy Staff Development Seminar
- Keehn MT.** (February 2007) Presentation to Post-Acute Care Special Interest Group of the Illinois Hospital Association. Panelist representing Illinois PT Association & invited speaker presenting workforce research with Gail Fisher.
- Keehn, MT.** (March 2007) Presenter. Illinois Physical Therapy Association Payer's Forum Event sponsored by IPTA to educate payer representative and policy makers to assist them in determining coverage of PT services for their beneficiaries.
- Bhatt T, **Pai YC.** (November 2007) Can observational training substitute motor training in preventing backward balance loss following an unexpected slip during walking? 1st International Conference on Cognitive Neurodynamics. Shanghai, China.
- Phillips S.** (August 2007) Mechanisms of bradykinin dilation and the modulatory effect of perivascular fat in human adipose microcirculation. 8th World Congress on Microcirculation Milwaukee, Wisconsin.

Phillips S (September 2007) Exercise, Oxidative Stress and Human Endothelial Function. Invited international speaker at the special symposium on the regulation of blood pressure and microcirculation. 5th Croatian Congress of Pharmacology and the 2nd Congress of Croatian Physiological Society Meeting. Osijek, Croatia.

Phillips S (October 2007) Presented and discussed research findings and career development with clinical scientists. National Institutes of Health National Heart, Lung and Blood Institute Division of Cardiovascular Diseases K23 meeting. Bethesda, Maryland

Phillips S. (November 2007) Chronic Exercise Protects against Macro- and Micro-vascular Endothelial Dysfunction Induced by Acute Hypertension during Exertion. American Heart Association Scientific Session on Endothelial Dilator Factors in the Coronary and Peripheral Microcirculation. Orlando, FL

Migrino RQ, Bright M, Hari P, Nguyen-Liu V, Connors L, Kalyanraraman B, **Phillips S.** (November 2007) Primary Amyloidosis Light Chains Impair Endothelium-Dependent Vasodilation in Human Arterioles. American Heart Association Scientific Session on Novel Biomarkers and Mediators in Heart Failure. Orlando, Florida.

Phillips S. (November 2007) Oxidative Stress and Human Endothelial Function: Implications of Diet and Exercise. Division of Geriatrics Research Rounds. VA Medical Center. Milwaukee, Wisconsin.

Phillips S. (November 2007) Oxidative Stress and Human Endothelial Function: Implications of Diet and Exercise. Division of Cardiovascular Medicine Grand Rounds. Medical College of Wisconsin. Milwaukee, Wisconsin.

PRESENTATIONS AND WORKSHOPS - STUDENTS

Kimberly Acuesta, Lauren Anderson, Adam Janowski and Subash Mathew,. (June 2007) Attended and served as Student Usher for educational sessions of American Physical Therapy Association Annual Conference and Exposition. Denver, Colorado.
Advisor: D John

Chris Thompson, DPT 1st year. (April 2007) Repeated maximal voluntary isometric contractions in subjects with motor incomplete spinal cord injury: *What fatigue??* (Authors: Chris K. Thompson, Michael D. Lewek, T. George Hornby). UIC Research Forum 2007 for Graduate and Professional Students. Awarded second place in the Life Sciences section.
Advisor: TG Hornby

Ilyse Zultowski, DPT 3rd year. (April 2007) UIC Research Forum 2007 for Graduate and Professional Students presenter. Advisor: A Aruin

AWARDS AND RECOGNITIONS - FACULTY

Aruin A. (April 2007) Review of the grant applications for the 2007 Collaborative Health Research Projects competition by Natural Sciences and Engineering Research Council of Canada (NSERC).

Bulanda M. 2007 Educator of the Year: Physical Therapy, College of Applied Health Sciences, UIC.

Campbell S. Appointed to Clinical Interface Committee of the campus Center for Clinical and Translational Science. This committee will work to transform the existing GCRC to include ambulatory and community-based needs and other identified investigator needs for clinical research support.

Campbell S. Associate Director for the advancement of mentoring in research, Education Core, UIC Center for Clinical and Translational Research.

Campbell S. Reappointed to the Editorial Board of the Australian Journal of Physical Therapy.

Campbell S. (October 2007) Named Professor of the Year by the UIC College of Applied Health Sciences.

Courtney C. (October 2007) Outstanding Research Platform Presentation by American Academy of Orthopedic Manual Physical Therapy Annual Conference.

Duncombe A. (February 2007) Graduated from a credentialed post-professional specialty program by American Physical Therapy Association.

John D. 2007 Excalibur Award for Teaching Excellence, College of Applied Health Sciences, UIC.

Keehn MT. Appointment to Illinois Physical Therapy Licensing & Disciplinary Board by Illinois Department of Professional and Financial Regulation for the period March, 2007, through August, 2008.

Keehn MT. 2007 Suzann K. Campbell Award for Excellence in Teaching.

McCoy JO. 2007 Love of Learning Award (\$500) by The Honor Society of Phi Kappa Phi "...to help fund graduate or professional studies, doctoral dissertations, continuing education, career development and travel related to teaching/studies for active society members." One of first 50 recipients nationwide to receive this award.

Pai YC. (November 2007) Interviewed in the newsletter of The International Council on Active Aging about work on falls prevention training paradigm, included a link to a recently published paper in *Physical Therapy*.
Interview at: http://www.icaa.cc/Newsletters2007/ICAAResearchReview_7_41.htm

Straube D. (July 2007) Appointed to the Neurology Specialty Council by American Board of Physical Therapy Specialties (ABPTS) for a 4 year term beginning January, 2008.

AWARDS AND RECOGNITIONS - STUDENTS

Linda S. Butts, DPT 2nd year. 2007 Chancellor's Student Service and Leadership Award.

Erin Wiggins, DPT 3rd year. 2007 Minority Scholarship Award for Academic Excellence from the American Physical Therapy Association. The \$6000 award was presented at the Annual Conference & Exposition in Denver, CO, in June.

Marcio Santos, Post-doctoral Research Fellow, PT. The effect of joint instability on latency and recruitment order of the shoulder muscles, *Journal of Electromyography and Kinesiology*, Volume 17, Issue 2, 1 April 2007, Pages 167-175, is named as #3 among the top 25 Hottest Articles in 2007 by Journal of Electromyography and Kinesiology, official Journal of the International Society of Electrophysiology and Kinesiology (ISEK).

HOSTED EVENTS

CONTINUING EDUCATION

School-based Services for Students with Intellectual Dysfunction.
Susan Cahill. January. Chicago Public Schools.

*Examination, Diagnosis, and Interventions for the Patients with Lumbar Instability:
An Evidence-Based Approach.*
Deydre Teyhen. March. APTA.

Clinical Instructor Credentialing Course.
Amy Maxeiner and Jeannette Elliott. June.

*Complete Decongestive Therapy (CDT) Certification Course for the Treatment of
Lymphedema.*
July. Norton School of Lymphatic Therapy.

Health Promotion and Wellness: Expanding Your Practice and Paradigm.
Janet Bezner, Beth Black, MarySue Ingman. September. APTA.

Spanish for Physical Therapists and Occupational Therapists.
Monika Mann. September. del Norte Seminars.

Collaborating for Student Success in School.
Barbara Hanft. November. Chicago Public Schools.

The Science Of Manual Therapy.
Julie Fritz. November. Second Annual Fellowship in Orthopedic Manual Physical Therapy
Distinguished Lecture.

GRADUATE SEMINARS

January

A Clinical Trial of Early Physical Therapy to Promote Development of Locomotion in Infants with White Matter Injury—Pilot Study. Suzann Campbell.

February

Carrying Loads and Postural Sway in Standing: The Effect of Load Placement and Magnitude. Ilyse Zultowski, DPT student.

De-Coupling of Gait Parameters for Stability Improvements. Debbie Espy.

March

A Validation Study of the Pediatric Balance Scale using Rasch Analysis. Puja Padbidri, MSPT student.

Effectiveness of a Vision Therapy Program in Improving Gross Motor Skills of Children with Clumsy Motor Behavior. Shruti Vinod Joshi. MSPT student.

Classification Of Patients With Neck Pain Receiving Physical Therapy. Michael A. O'Hearn.

April

Fatigue and Physical Activity in Patients Undergoing Hematopoietic Stem Cell Transplantation. Eileen D. Hacker, Dept of Medical Surgical Nursing, UIC.

The Influence of Pain-Related Fear and Altered Motor Behavior in Low Back Pain. James S Thomas.

Pediatric Physical Therapy in Turkey. Akmer Mutlu.

A Retrospective Study of the Correlates of Post Rotator Cuff Surgical Outcomes. Meri Goerhing.

September

Behavioral Analysis of Leg Movements in Infants with White Matter Injury and Healthy Infants. Dipti Kale, MSPT student.

Stroke Rehabilitation: Passive or Active Modality? Christina Hui-Chan.

October

Case Study- Low Back Pain. George Hornby.

Rater Reliability of the Physical Therapy Activities Form. Michelle Bulanda.

November

Educational Philosophy- How It Applies to Clinical Education. Jean Rogers/ Amy Maxeiner.

Effect of a Contralateral Finger Touch on Grip Force Control in Patients with Multiple Sclerosis. Veena Iyengar, MSPT student.

Joint Mobilization and Volitional contraction Modulate Flexor Withdrawal Responses in Subjects with Knee Osteoarthritis. Carol Courtney.

ACADEMIC PROGRAMS

DOCTOR OF PHYSICAL THERAPY PROGRAM

Accreditation

The Commission on Accreditation in Physical Therapy Education (CAPTE) conducted a 3-day site visit, in April, 2007, for review of the DPT program. The written report issued in October, 2007, reaffirmed accreditation with no citations and no progress reports.

Excerpts from the Report of the On-Site Review Team:

The departmental mission to educate physical therapists, advance the field through research and scholarship, and provide service appears to be supported by the program's efforts to attract a diverse student body and the range of educational, research, and service opportunities offered. Students may participate with faculty members on research projects. Clinical experiences in diverse settings are readily available for the students ranging from large urban hospitals to a *pro bono* clinic for uninsured clients. (p. 24)

The interviews with the students, core and clinical faculty confirm that the DCEs are active and successful in conducting the program, including management of issues and problems that arise during clinical education. A review of materials confirms that there is an organized evaluation program. (p. 19)

Interviews and a review of CVs confirm the analysis presented in the Self-study Report. The faculty commented on the strengths of both the research and clinical faculty in contributing to strengthening the DPT program. (p. 21)

... The program faculty utilizes an impressive array of assessment methods/techniques to evaluate student performance throughout the curriculum...The students commented positively on the types of tests they received, including their emphasis on use of case-based questions rather than simple recall. (p. 31)

... Students and CIs report opportunities for students to interact with qualified clinical instructors, other health care professionals, and to engage in a variety of activities other than direct patient care, such as application of evidence-based practice principles. (p. 34)

Curriculum Evaluation by Students

Comments offered by students with year-end curriculum evaluations in reply to ...

What did you like most about the curriculum?

Class of 2007, 3rd year DPT students:

Lab work in musculoskeletal courses.

The openness of faculty. Clinical rotations and case reports.

Class of 2008, 2nd year DPT students:

Course flow makes sense, integrates knowledge from previous courses.

I&A is very useful; I was able to determine my strengths and weaknesses.

Critical thinking instilled by professors. Opportunities to learn in a variety of ways.

Ability to ask professors questions whenever needed, ability to go to hospital and work with patients.

Evidence based approach to each subject learned.

Caring faculty. Experiences at the hospital, especially acute care.

High lab instructor/student ratio, availability of peer tutors.

I&A and having access to experiences and currently practicing clinicians, physicians and access to the hospital facilities.

Class of 2009, 1st year DPT students:

Very evidence based.

Professors really care about students and are very knowledgeable.

Knowledge of instructors. Access to professors. Student collaboration.

Each professor has been extremely knowledgeable and accessible.

We learned basic sciences first and built a good foundation and are now progressing to clinical sciences.

I&A is a very useful class in putting our critical thinking skills to a practical application.

All our teachers are incredibly knowledgeable and care about our success.

Two-week clinical rotation was very helpful.

Solid anatomy, physiology foundation.

I think the curriculum progresses very well.

Professors have a genuine concern for students' learning and growth.

Strong emphasis on evidence based practice.

I have had very excellent and approachable instructors.

Preparation to work in many settings.

Graduation

The Doctor of Physical Therapy program graduated 31 students in Spring 2007. The pass rate for the National Physical Therapy Examination (NPTE) as compared to state and national performance:

	UIC	State	All U.S.-Accredited Candidates
First time pass rate	97%	90%	90%
Overall pass rate	100%	100%	89%

The graduates achieved an employment rate of 100%.

"... Program graduates are expected to practice autonomously, apply published peer-reviewed literature to clinical questions, be focused on their patients and their well being and be advocates for patients." (p. 28)
Report of the On-Site Review Team, CAPTE, 2007

"... Clinical faculty and employers spoke positively of the students and graduates abilities in the behavioral science areas." (p. 33)
Report of the On-Site Review Team, CAPTE, 2007

"... The employers specifically commented on the skills of graduates in behaving in a professional manner, in taking responsibility for their own actions, and in seeking support through evidence for their practice." (p. 44)
Report of the On-Site Review Team, CAPTE, 2007

Admissions

287 individuals applied for admission to the DPT in 2007 comprised of the following demographics:

Ethnicity		Gender		Residency		Undergraduate Institution					
African American	17	6%	Female	225	78%	Illinois resident	189	66%	UIC	42	15%
Asian / Pacific Islander	33	12%	Male	62	22%	Non-Illinois resident	98	34%	UIUC	43	15%
Hispanic	20	7%							Other	202	70%
White	197	68%									
Other / Non reporting	20	7%									
Total	287	100%		287	100%		287	100%		287	100%

36 students entered the DPT in 2007 comprised of the following demographics:

Ethnicity		Gender		Residency		Undergraduate Institution					
African American	3	8%	Female	27	75%	Illinois resident	33	92%	UIC	8	22%
Asian / Pacific Islander	2	6%	Male	9	25%	Non-Illinois resident	3	8%	UIUC	5	14%
Hispanic	3	10%							Other	23	64%
White	24	67%									
Other / Non reporting	4	11%									
Total	36	100%		36	100%		36	100%		36	100%

MASTER OF SCIENCE IN PHYSICAL THERAPY

Graduation

The Master of Science in Physical Therapy program graduated 3 students in 2007:

Shruti Joshi Spring 2007

Thesis Title: *Effectiveness of a Vision Therapy Program in Improving Gross Motor Skills of Children with Clumsy Motor Behavior*

Advisor: Alex Aruin

Puja Padbidri Spring 2007

Thesis Title: *A Validation Study of the Pediatric Balance Scale Using Rasch Analysis*

Advisor: Suzann Campbell

Dipti Kale Fall 2007

Thesis Title: *Behavioral Analysis of Leg Movements in Infants in the Seated Position*

Advisor: Suzann Campbell

FELLOWSHIP IN ORTHOPEDIC MANUAL PHYSICAL THERAPY

Graduation

The fellowship program graduated Katarzyna M. Sacha in 2007.

Admissions

Four fellows were admitted to the program in 2007.

Frank DiLiberto

Alicia Emerson Kavchak

Carina Lowry

Nancy Tow

FACULTY ROSTER

CORE FACULTY

Alexander Aruin, PhD, D.Sc, Professor,
Director of Graduate Studies
Director, Harry G. Knecht Movement Science Laboratory

Research Interests

The organization of anticipatory postural adjustments, motor disorders and rehabilitation, biomechanics, and motor control. Developing new technologies for training healthy people and for providing physical therapy and rehabilitation to injured and disabled individuals.

Teaching Interests

Control of posture and locomotion, biophysics, motor control.



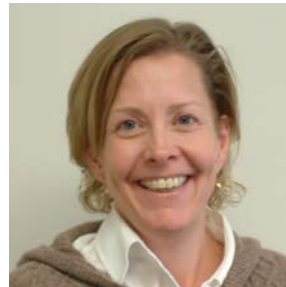
Michelle Bulanda, PT, DPT, MS, PCS, Clinical Assistant Professor
Coordinator, Department of Physical Therapy Outreach Education
Program

Research Interests

Training professional students to work with young children with disabilities and their families in early intervention.

Teaching Interests

Neuromuscular Dysfunction, case management, and assessment and intervention strategies for young children with disabilities and their families.



Suzann Campbell, PT, PhD, FAPTA, Professor and Department Head

Research Interests

Assessment of high-risk infants; early intervention to promote locomotion in infants with white matter injury

Teaching Interests

Pathokinesiology of cerebral palsy; motor development in infancy; assessment of motor performance in infancy; clinical decision making and evidence-based practice



"... Interviews confirm that program faculty use a wide variety of instructional methods to aid students in their learning and acquisition of professional skills such as lectures, laboratories, case studies, small group activities, patient simulations, and extensive writing experiences." (p. 31)

Report of the On-Site Review Team, CAPTE, 2007

Carol A. Courtney, PT, PhD, ATC, FAAOMPT, Assistant Professor
Director, Fellowship in Orthopedic Manual Physical Therapy

Research Interests

Effects of altered somatosensory input on postural control

Teaching Interests

Sportsmedicine, Kinesiology, Musculoskeletal Evaluation and Treatment



T. George Hornby, PhD, PT, Assistant Professor

Research Interests

Motor dysfunction following spinal cord injury and stroke;
pharmacological effects on motor control; gait retraining following
neurological injury

Teaching Interests

Physiology/pathophysiology, motor control, exercise physiology, science
and practice



Demetra John, PT, PhD, Clinical Assistant Professor
Coordinator of Professional Admissions
Professional Program Curriculum Coordinator

Research Interests

Exploring health promotion and prevention of secondary conditions
in adults with physical disabilities; outreach to underserved
populations

Teaching Interests

Orthopedics



Mary T. Keehn, PT, DPT, MHPE, Clinical Associate Professor
Associate Department Head
Director of Physical Therapy Services and Rehabilitation Unit Manager,
UIMCC

Research Interests

Workforce issues in physical therapy and occupation therapy
Physical therapy service provision in acute care and rehabilitation

Teaching Interests

Professional Issues, Health Care Delivery Systems, History and Evolution of Physical Therapy as a Health Care Discipline, Development of Professionalism, Clinical Decision Making Skills and Psychomotor Skills in Students of Physical Therapy, Physical Therapy Services for Persons with Mental Illness



Amy Maxeiner, PT, MS, Clinical Assistant Professor
Director of Clinical Education

Teaching Interests

Clinical Education, Professional Development



Clive Pai, PhD, PT, Professor

Research Interests

Determining the role of limb collapse in falls; facilitating adaptive strategies for balance recovery; investigating the role of neuromuscular joint protection to prevent rapid progression of knee osteoarthritis



Shane Phillips, PT, PhD, Assistant Professor

Research Interests

Exercise induced hypertension, oxidative stress, and vascular endothelium; Obesity and dietary interventions for macro- and micro- vascular health; Resistance and aerobic exercise interventions for vascular health.

Teaching interests

Pathophysiology, Cardiopulmonary Physical Therapy, Exercise Physiology



Jean Rogers, PT, MA, Clinical Assistant Professor
Director of Clinical Education

Research Interests

Professional behaviors, service learning, clinical education

Teaching Interests

Clinical education, professional development



Don Straube, MS, PT, NCS, Clinical Assistant Professor
Neurologic Clinical Specialist

Research Interests

Issues related to measurement of physical therapy student performance and measurement of outcomes in neurologic physical therapy.

Teaching Interests

Neurologic physical therapy; applied pathophysiology



ASSOCIATED FACULTY

Alison Duncombe, PT, OCS, FAAOMPT
Coordinator of Outpatient Physical Therapy, UIMCC



Darren Earnshaw, PT, MAppISc, FAAOMPT
Adjunct Clinical Assistant Professor



Vince Kabbaz, PT, MAppISc, FAAOMPT
Adjunct Clinical Assistant Professor



Jeanne O'Neil McCoy, PT, MS, NCS
Adjunct Clinical Assistant Professor
School Physical Therapist, Morton West High School,
Berwyn, IL
School Physical Therapist, Oak Park & River Forest
High School, Oak Park, IL



Michael O'Hearn, PT, MHS, OCS, FAAOMPT
Adjunct Clinical Assistant Professor
Chief of Physical Therapy, Lakeland Regional Health System,
Saint Joseph, Michigan



CLINICAL LABORATORIES

CLINICAL GAIT AND MOVEMENT ANALYSIS LAB

Clive Pai, Director

The long-term objectives of the Clinical Gait and Movement Analysis Laboratory in UIC's Department of Physical Therapy include the development of clinical interventions to improve a person's own neuromuscular defense mechanisms against fall-related injuries and to prevent rapid progression of knee osteoarthritis. To achieve these objectives, we are developing new assessment tools and treatment strategies. An overall guiding principle of our research is that its outcome should impact the clinical practice of physical rehabilitation.

For example, we have developed mathematical models to simulate human movement by using computers to determine biomechanical boundaries of balance recovery. Guided by such theoretical predictions, we have then developed different perturbation paradigms that enable us to determine the actual limitations of an individual's protective mechanisms and the movement options for improving stability.

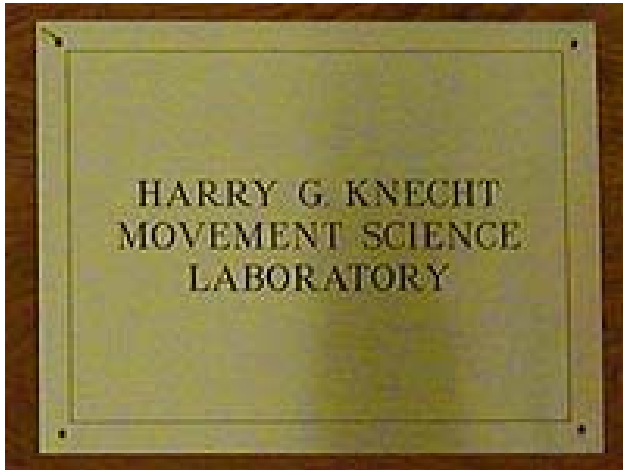


Lab construction, started in August, 2000 and completed in March, 2001, has transformed an abandoned storage/delivery-room space into a state of the art research laboratory (230 m² or 2500 sq. ft.). It consists of three main areas. An office area consisting of an office/meeting room and several workstations can accommodate the needs of the Director, visiting scholars, post-doctoral fellows, staff, and students. A clinical area contains a room with equipment needed for patient evaluation including a Kin Com 500-H isokinetic dynamometer. The data collection area includes a lowered, 10 x 3 meter instrumented walkway with ramp access. Motion analysis data are captured with six 240-Hz Falcon high-resolution analog cameras mounted on a circular overhead rail and EvaRT real-time data collection and tracking software. The lab is also equipped with an electromyographic (EMG) data collection system.

Dr Pai and his research team in the past 10 years also have designed, tested, and implemented protective systems aimed at providing subject and patient safety while allowing the researchers to identify the vulnerability in their neuromuscular defense mechanisms. Special consideration was also given to this safety issue during the lab construction. A section of the floor was removed and reconstructed at a lower level to allow for the proper functioning of a set of dynamic mountain climbing ropes connecting to a full body harness system for fall arrest. The harness system is connected to a load cell so that the degree to which a subject uses the harness to regain balance after exposure to a perturbation may be assessed.

KNECHT MOVEMENT SCIENCE LABORATORY

Alex Aruin, Director



The Knecht Movement Science Laboratory in the Department of Physical Therapy directed by Dr. Alex Aruin is dedicated to run clinical and basic science research. The primary research interests of the laboratory have been focused on motor disorders and rehabilitation, biomechanics, and motor control. Dr. Aruin also develops new technologies for training healthy people and for providing physical therapy and rehabilitation to injured and disabled individuals.

Current clinical projects include studying control of grip force in individuals with multiple sclerosis and control of posture in individuals with Parkinson's disease, stroke, diabetes, and cerebral palsy. The outcomes of projects involving healthy individuals provide a basis for future research involving patients. The multiple projects are supported by the National Institutes of Health, NMSS, and NIDRR.

The laboratory is located in a close proximity to several hospitals including the University of Illinois Medical Center, John H. Stroger, Jr. Hospital of Cook County, Rush University Medical Center and Jesse Brown VA Medical Center which makes it easy to bring in patients for a study. The laboratory is equipped with a Vicon Motion Analysis system with six digital cameras that operate with infrared light passive reflective markers and associated software. An AMTI force platform is located in the laboratory as well as a 16-channel EMG system that has low movement artifact and high noise rejection. In addition, we have a portable work station that could be used to collect data outside of the laboratory if needed. Other equipment – oscilloscope, power supplies, function generator, and test equipment. Licensed software includes a variety of data visualization programs, statistics and plotting packages, and word processing. All of our data acquisition and data processing software is custom written based on LabView and Matlab packages. Statistical packages include STATISTICA and SPSS. Several high-speed computers are part of the laboratory data acquisition and processing modules.

The University of Illinois at Chicago is well equipped with machine shops and electronic shops that are available for special machine construction as well as building electronic instrumentation. However, the majority of specialized pieces of equipment are built or adjusted in the laboratory by Dr. Aruin who has a degree in electrical engineering, obtained more than forty patents in rehabilitation engineering field, and has multi-year experience in designing equipment.

NEUROLOCOMOTION LABORATORY

T. George Hornby, Director

The primary goals of the *Neurolocomotion Lab* are to study ways to help enhance walking ability in patients with neurological injuries. In particular, we are investigating the use of robotic- or other non-motorized devices on individuals with spinal cord injury and stroke and how such devices may enhance walking function. In further attempts to bridge basic scientific findings into the clinical setting, we are also studying how various neuroactive substances alter strength, spasms, and walking function when given alone or when combined with intensive rehabilitation strategies. Using clinical and objective measures, our laboratory continues to investigate potential neuromuscular, cardiopulmonary and metabolic measures underlying the changes observed following physical or pharmacological interventions

The Neurolocomotion Laboratory located at the Rehabilitation Institute of Chicago is directed by Dr. T. George Hornby, who has an adjunct appointment at the Institute. The 625 ft. laboratory is necessarily located within the rehabilitation hospital to facilitate research on patients with both subacute and chronic stroke or spinal cord injury. Current projects include the investigation of potential mechanisms underlying alterations in volitional control and the manifestation of involuntary reflexes in these patient populations, with an emphasis on restoration of functional ambulation.

The laboratory is equipped with the following: two 16 channel EMG data acquisition systems, 8 twin axis electrogoniometers, a Noraxon footswitch system, a CosMed telemetry VO2 unit to assess cardiopulmonary and metabolic parameters during locomotion or other activities; a GaitMat II system, which is an instrumented walkway which can rapidly assess spatiotemporal patterns of gait, a Woodway treadmill with a counter-weight/harness system to provide body weight support, three JR3 load cells, Lokomat treadmill training system and two other, lightweight, non-motorized devices designed to assist locomotor training on a treadmill. Also available within the RIC is a Biodex Isokinetic Dynamometer, a 8 channel EMG system, a ATI load cell, a JR3 load cell, and a 8 camera, Motion Analysis with two force platforms.

VASCULAR BIOLOGY LABORATORY

Shane Phillips, Director

Long Term Goals: The long term goals of the *Vascular Biology Laboratory* at the University of Illinois at Chicago (Department of Physical Therapy) include the development of exercise and dietary interventions for optimal cardiovascular health. More specifically we are interested in identifying the molecular and cellular mechanisms whereby elevations in blood pressure during certain exercise interventions (resistance and aerobic) might threaten the health of the vascular endothelium (a critical milestone in the development of atherosclerotic heart disease).

Clinical Approach: The integrity of the vascular endothelium is critical for the regulation of vasomotor tone, health of the vascular wall, and for the prevention of atherosclerosis. Impaired endothelium dependent vasodilation precedes cardiovascular disease and is an early predictor of the cardiovascular disease. This laboratory collaborates with UIC's College of Medicine to assess vascular endothelial function using high resolution ultrasound, a technique called flow-mediated dilation (FMD) of the brachial artery. This is an index of vascular function and is dependent on factors that stimulate dilation of the blood vessels. One such factor is nitric oxide (NO). Many risk factors including obesity, high cholesterol, and high blood pressure reduce the release of NO by elevating the production of free radicals, known as reactive oxygen species, thereby reducing vasodilation and cardiovascular protection afforded by NO.

Basic Approach. In addition to ultrasonography, our laboratory has developed other methods to interrogate endothelial function in the same patients. We also employ *in vitro* methodology of vascular tissue from subcutaneous biopsy samples, which allows direct measurement of microvascular diameter in humans under conditions of controlled flow and in the absence of confounding neurohumoral influences, metabolic changes, and effects of intravascular components. The basic laboratory is equipped to 1) measure arterial diameter in the microcirculation with 2 complete modules for video microscopy, 2) measure vascular ROS and antioxidant species with fluorescent microscopy, and 3) utilize molecular biology techniques to evaluate inflammatory mediators of endothelial dysfunction.

Research Problem:

Mechanisms of Exertional Hypertension and Vascular Dysfunction. It is well recognized that people who exercise have better cardiovascular health than those who do not. While aerobic exercise clearly improves cardiovascular function, the benefits of resistance exercise are less certain. On the one hand, experienced weight lifters are known to suffer fewer post-exertion cardiac events making weight lifting a common recommendation for cardiovascular health and disease prevention. However, weight lifting is associated with large increases in arterial pressure that may be detrimental to vascular health. In our laboratory we identified a differential effect of a single weight lifting session on vascular endothelial health (assessed by measuring FMD of the brachial artery) in physically active compared to sedentary populations. Despite similar elevations in arterial pressure in both groups, sedentary subjects had severely reduced endothelial FMD. Since brachial FMD is mediated by NO and correlates with coronary function, whether this mode of this treatment is beneficial or detrimental to cardiovascular health remains a clinically important question. Small elevations in blood pressure can reduce NO bioavailability. *Thus, we believe that acute hypertension induced by exertion may represent a vascular "stress test" for predicting the level of vascular protection when cardiovascular health appears otherwise normal.* The goal of our laboratory is to apply these techniques to 1) determine the effectiveness of exercise training programs on endothelial integrity for populations at risk for heart disease and 2) Determine the molecular mechanisms whereby chronic exercise protects against stress induced vascular endothelial dysfunction.

PROFESSIONAL SERVICE

SERVICE TO THE PROFESSION

Associate Editor, *IEEE Transactions on Neural Systems & Rehabilitation Engineering* – Clive Pai

Editorial Boards:

American Journal of Physiology: Heart and Circulatory Physiology – Shane Phillips

Physical and Occupational Therapy in Pediatrics - Michelle Bulanda

Manuscript reviewers:

American Journal of Physiology: Heart and Circulatory Physiology – Shane Phillips

American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology
– Shane Phillips

Archives of Physical Medicine and Rehabilitation - Alexander Aruin

Brazilian Journal of Medical and Biological Research - Alexander Aruin

Clinical Biomechanics - Alexander Aruin

Clinical Neurophysiology - Alexander Aruin

Developmental Medicine & Child Neurology - Alexander Aruin

Diabetes – Shane Phillips

European Journal of Clinical Investigation – Shane Phillips

Experimental Brain Research – Alexander Aruin, Clive Pai

Gait and Posture - Alexander Aruin

Journal of the American College of Cardiology – Shane Phillips

Journal of Applied Physiology – Shane Phillips

Journal of Biomechanics – Clive Pai

Journal of Electromyography and Kinesiology - Alexander Aruin

Journal of Gerontology: Medical Sciences – Clive Pai

Journal of Hand Therapy - Alexander Aruin

Journal of Motor Behavior - Alexander Aruin

Journal of Neurology, Neurosurgery and Psychiatry - Alexander Aruin

Journal of Neurophysiology – Alexander Aruin, Clive Pai

Journal of Orthopaedic & Sports Physical Therapy – Carol Courtney

Journal of Physical Therapy Education, APTA – Don Straube

Journal of Rehabilitation Research - Alexander Aruin

Journal of Rehabilitation Research and Development - Alexander Aruin

Journal of Vascular Research – Shane Phillips

Motor Control - Alexander Aruin

Neuroscience Letters - Alexander Aruin

Pediatric Physical Therapy – Suzann Campbell

Physical and Occupational Therapy in Pediatrics - Michelle Bulanda

Physical Therapy – Clive Pai

American Academy of Orthopaedic Manual Physical Therapy
International Affairs Committee – Carol Courtney
Membership Committee – Carol Courtney
Standards Committee – Carol Courtney

American Physical Therapy Association House of Delegates – Mary Keehn

American Physiological Society Cardiovascular Section Awards Committee – Shane Phillips
Commission for the Accreditation of Physical Therapy Education On Site Reviewer – Mary Keehn

Higher Learning Commission of the North Central Association – Mary Keehn

Illinois Physical Therapy Association
Vice President – Mary Keehn
Continuing Education Approval Committee - Michelle Bulanda

Pro- bono PT Clinic Co-director and Volunteer PT - Demetra John

SERVICE TO THE UNIVERSITY

Campus Research Board - Alexander Aruin

Center for Clinical and Translational Science: Associate Director, Education Core – Suzann Campbell

College of Medicine MD/PhD Training Program - Alexander Aruin

GPPA Oversight Committee - Demetra John

Honors College Fellow - Demetra John

Interdisciplinary Training Program in Neuroscience - Alexander Aruin

Promotion and Tenure Committee – Clive Pai

Student Affairs Hearing Officer - Demetra John

UIC Senate Committee on Student Recruitment, Admissions and Retention – Don Straube

UNIVERSITY OF ILLINOIS MEDICAL CENTER (UIMC) STAFF ARE ACTIVE PARTNERS

UIMC Physical Therapists play a vital role in the delivery of the Doctor of Physical Therapy program. Of the 26 Physical Therapists who are on the staff of the University of Illinois Medical Center, 19 have teaching responsibilities in the DPT program providing over 1000 hours of classroom teaching in 2007. UIMC staff members are instructors, lecturers, and laboratory assistants in 16 of the 25 required didactic courses in the DPT curriculum. UIMC clinicians also serve as advisors for DPT students in preparing case reports and work with students on a variety of additional learning experiences.

UIMC clinicians also play a significant role in the clinical education component of the DPT curriculum in supervising students during their internships. Of the 33 members of the Class of 2007, 13 completed internships at the UI Medical Center. As currently scheduled, 10 of the 27 members of the Class of 2008 will complete one of their clinical internships at UIMC. This contribution is significantly greater than that played by any other affiliated institution.

UIMC clinical facilities are used as the primary classroom for two courses, Integration & Assessment I and II, required in the second year of the curriculum. These courses are frequently identified as an important factor in attracting students to the UIC DPT program and these courses are consistently mentioned in graduate evaluations as strengths of the program. In addition, UIMC clinical facilities are used for as teaching laboratories for 5 additional courses in the DPT curriculum (Introduction to Physical Therapy, Biophysics, Therapeutic Applications, Cardiopulmonary Dysfunction, Applied Pathophysiology and Neuromuscular Dysfunction II).

UIMC clinicians also participate in teaching in the orthopedic manual therapy fellowship coursework and electives.

"... Access to the UIC medical center PT facility for teaching is a very positive attribute of the program." (p. 26)

Report of the On-Site Review Team, CAPTE, 2007

UIMC STAFF ROSTER

Cori A. Arquines, PT

Center Coordinator of Clinical Education

Clinical Interests – Acute Care, Rehabilitation, Lymphedema Management

Professional Degree –BS - University of Illinois at Chicago

Credentialed Clinical Instructor – American Physical Therapy Association

April E. Clark, PT, DPT

Specialist in Physical Therapy

Clinical Interests – Neonatal Care, Developmental Assessment; Childhood and Adolescent Obesity

Professional Degree – DPT - University of Illinois at Chicago

Credentialed Early Intervention Provider

Credentialed Clinical Instructor – American Physical Therapy Association

Jeffrey D Clark, PT, MBA, OCS

Specialist in Physical Therapy

Clinical Interest – Orthopedics, Cardiac Rehabilitation, Prosthetic Gait Training

Professional Degree – Master of Science in Physical Therapy - Central Michigan University

Masters in Business Administration – University of Illinois at Chicago

American Board of Physical Therapy Specialty Certification – Orthopedics

Credentialed Clinical Instructor – American Physical Therapy Association

Frank DiLiberto, PT, MSPT, OCS

Orthopedic Manual Physical Therapy Fellow, Visiting Specialist in Physical Therapy

Clinical Interests – Orthopedics, Vestibular Rehabilitation

Professional Degree – Master of Science in Physical Therapy – Ithaca College

Alison M. Duncombe, PT, OCS, FAAOMPT

Coordinator of Outpatient Physical Therapy

Clinical Interests – Spinal Dysfunction, Temporomandibular Joint Dysfunction

Professional Degree –School of Physical Therapy at the London Hospital – Member of the Chartered Society of Physiotherapists

American Board of Physical Therapy Specialty Certification - Orthopedics

Orthopedic Manual Physical Therapy Fellowship – University of Illinois at Chicago

Credentialed Clinical Instructor – American Physical Therapy Association

Aileen C. Eviota, PT, DPT

Specialist in Physical Therapy

Clinical Interests – Neurological Rehabilitation, Adolescent Obesity

Professional Degree – DPT - University of Illinois at Chicago

Credentialed Clinical Instructor – American Physical Therapy Association

Benjamin Geletka

Specialist in Physical Therapy

Clinical Interests – Orthopedic Physical Therapy

Professional Degree – DPT - Ohio University

Susan M Hollingsworth, PT, DPT

Specialist in Physical Therapy

Clinical Interests –Adolescent Obesity, Acute Care, Rehabilitation

Professional Degree – DPT - University of Illinois at Chicago

Credentialed Clinical Instructor – American Physical Therapy Association

Cecilia Horodyski, PT, PCS

Clinical Associate, Division of Specialized Care for Children

Physical Therapist-El Valor Corporation

Clinical Interests-Assistive Technology, Early Intervention

Professional Degree-BS in Physical Therapy-University of Illinois at Chicago

Credentialed State of Illinois Early Intervention Specialist

American Board of Physical Therapy Specialty Certification – Pediatrics

Credentialed Clinical Instructor - American Physical Therapy Association

Cynthia M. Janulaitis, PT, MS

Assistant Director of Physical Therapy

Clinical Interests – Cardiopulmonary

Professional Degree – BS – McGill University

Master of Science in Exercise Physiology – University of Illinois at Chicago

Credentialed Clinical Instructor - American Physical Therapy Association

Alicia J. Kavchak, PT, MSPT, OCS

Orthopedic Manual Physical Therapy Fellow, Visiting Specialist in Physical Therapy

Clinical Interests – Orthopedics

Professional Degree – Master of Science in Physical Therapy – University of Indianapolis

Pamela J. Kloska, PT

Specialist in Physical Therapy

Clinical Interests – Pediatrics, Neonatology

Professional Degree – BS - University of Illinois at Chicago Newborn Individualized

Developmental Care and Assessment Program Certification

Credentialed Clinical Instructor - American Physical Therapy Association

Melissa Beth Koehl, PT

Specialist in Physical Therapy

Clinical Interests – Orthopedic Physical Therapy, Manual Therapy

Professional Degree – BS - University of Illinois at Chicago

Credentialed Clinical Instructor - American Physical Therapy Association

Carina Dawn Lowry, PT, DPT, OCS

Orthopedic Manual Physical Therapy Fellow, Visiting Specialist in Physical Therapy

Clinical Interests – Orthopedic Manual Therapy, Management of Whiplash Injury, Spinal Dysfunction

Professional Degree – Master of Science in Physical Therapy – Texas Woman's University

Doctor of Physical Therapy – Regis University

Credentialed Clinical Instructor - American Physical Therapy Association

Rachel Lindsay Miller, PT, DPT

Specialist in Physical Therapy

Clinical Interests – Orthopedic Physical Therapy

Professional Degree – DPT – Northwestern University

Credentialed Clinical Instructor - American Physical Therapy Association

Jennifer Ann Mitol, PT, DPT

Specialist in Physical Therapy

Clinical Interests – Acute Care, Rehabilitation, Orthopedic Physical Therapy

Professional Degree – DPT - University of Illinois at Chicago

Sharrone E. Moustakis, PT, DPT

Specialist in Physical Therapy

Clinical Interests – Orthopedic Physical Therapy

Professional Degree – DPT – Northwestern University

Credentialed Clinical Instructor - American Physical Therapy Association

Lynnea K. Pemberton, PT, DPT

Specialist in Physical Therapy

Clinical Interests – Neurological Rehabilitation

Professional Degree – Northwestern University

Kelly L. Piepenbrink, PT, MSPT

Specialist in Physical Therapy

Clinical Interests – Health Promotion and Wellness, Management of Obesity, Cardiac Rehabilitation, and Neurological Rehabilitation

Professional Degree – Master of Science in Physical Therapy – Boston University

Credentialed Clinical Instructor - American Physical Therapy Association

Currently Enrolled – Masters in Public Health – University of Illinois at Chicago

Christi M. Rathsack, PT, DPT

Specialist in Physical Therapy

Clinical Interests – Woman's Health, Pelvic Floor Dysfunction, Lymphedema Management

Professional Degree – DPT - Northwestern University

"... Interviews with students and faculty confirm that the relationship the program enjoys with the UIC medical center and other clinical sites provides an extremely valuable teaching/learning environment for the DPT students." (p. 31)

Report of the On-Site Review Team, CAPTE, 2007

Keir L. Ringquist, PT, MPT, GCS

Coordinator of Inpatient Physical Therapy

Clinical Interests –Geriatrics, Acute Care, Neurological rehabilitation, Health Care Policy and Administration

Professional Degree – Master of Science in Physical Therapy – Central Michigan University

Credentialed Clinical Instructor - American Physical Therapy Association

Currently Enrolled – PhD in Public Health – University of Illinois at Chicago

American Board of Physical Therapy Specialty Certification - Geriatrics

Julie A. Robichaud, PT, PhD

Specialist in Physical Therapy

Clinical Interests – Neurological Rehabilitation, Parkinson's Disease

Professional Degree – BS - Louisiana State University

Masters of Health Sciences –University of Florida

PhD – University of Florida

Adriana C. Silva, PT, MPH, PCS

Specialist in Physical Therapy

Clinical Interests – Pediatric Physical Therapy, Public Health

Professional Degree – Bachelor of Science in Physical Therapy

Master of Public Health – University of Illinois at Chicago

Credentialed Clinical Instructor - American Physical Therapy Association

American Board of Physical Therapy Specialty Certification - Pediatrics

Currently Enrolled – Master of Science in Counseling – Chicago School of Professional Psychology

Sara Gates Thorne, PT, MPT, OCS

Specialist in Physical Therapy

Clinical Interests – Orthopedic Physical Therapy

Professional Degree – Master of Physical Therapy – Mayo Clinic

American Board of Physical Therapy Specialty Certification – Orthopedics

Credentialed Clinical Instructor - American Physical Therapy Association

Currently enrolled – Doctor of Physical Therapy – AT Still University

Nancy Susan Tow, PT, MBA

Coordinator of Outpatient Physical Therapy, Orthopedic Manual Physical Therapy Fellow

Clinical Interests – Orthopedic Manual Physical Therapy, Management of Thoracic Spine Dysfunction, Ultrasound Imaging of Muscle and Peripheral Nerve

Professional Degree – BS in Physical Therapy- University of Illinois at Chicago

Master of Business Administration – University of Illinois at Chicago

Credentialed Clinical Instructor - American Physical Therapy Association

Mariola Trybus, PTA

Physical Therapist Assistant

Clinical Interests – Acute Care, Rehabilitation

Diploma – Technician Physiotherapist - Medical Vocational Center of Wroclaw

Stephanie L. Vodopic, PT, DPT

Specialist in Physical Therapy

Clinical Interests – Acute Rehabilitation, Community Reintegration

Professional Degree – Doctor of Physical Therapy – Northwestern University

Credentialed Clinical Instructor - American Physical Therapy Association

Laura Zawacki, PT, MS, PCS

Specialist in Physical Therapy

Clinical Interests – Neonatal Physical Therapy, Developmental Follow Up of High Risk Infants, Early Intervention

Professional Degree – Master of Science in Physical Therapy – Washington University

American Board of Physical Therapy Specialty Certification - Pediatrics

Credentialed Clinical Instructor - American Physical Therapy Association

ADMINISTRATIVE STAFF



Judy Davy, Assistant to the Head for Administration

Irma Ortega, Administrative Secretary



John Slavick, MS
Program Coordinator, DPT Program

Nittin Thachet, Assistant to the Head for Business

