Feb-11



John D. Childs, PT, PhD, MBA Lt Col, USAF, BSC

Associate Professor & Director of Research

U.S. Army-Baylor University Doctoral Program in Physical Therapy 3151 Scott Rd., Rm. 1303 (MCCS-HGE-PT))

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Émail: childsjd@gmail.com

EDUCATION:

University	Period of Stu	ıdy	Major	GPA	Degree
	From	То			
U.S. Air Force Academy	Jun 1990	Jun 1994	Biology	3.55	B.S.
U.S. Army-Baylor	Jan 1995	Jul 1996	Physical Therapy	3.94	M.P.T.
University					
University of Arizona	Aug 1996	May 2000	Business	3.93	M.B.A.
University of Pittsburgh	Aug 2000	Aug 2002	Musculoskeletal Physical	4.0	M.S.
			Therapy		
University of Pittsburgh	Aug 2000	Aug 2003	Rehabilitation Science	4.0	Ph.D.

APPOINTMENTS & POSITIONS:

1996–1998 1998–1999 1999–2000 2000–2003	Staff Physical Therapist, Department of Physical Therapy, Davis-Monthan AFB, Tucson, AZ Assistant Director, Department of Physical Therapy, Davis-Monthan AFB, Tucson, AZ Director, Department of Physical Therapy, Columbus AFB, Columbus, MS Doctoral Candidate (PhD, Rehabilitation Science), Air Force Institute of Technology, Department of Physical Therapy, University of Pittsburgh, Pittsburgh, PA
2003-2005	Senior Physical Therapist & Director of Research, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX
2004-2005	Postdoctoral Research Fellow, Department of Physical Therapy, School of Health & Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA
2005-2007	Assistant Professor & Director of Research, U.S. Army-Baylor University Doctoral Program in Physical Therapy, Army Medical Department Center & School, Baylor University, San Antonio, TX
2002-2007	Assistant Professor, U.S. Army-Baylor University Postprofessional Doctoral Program in Orthopaedic Manual Physical Therapy, Brooke Army Medical Center, San Antonio, TX
2005-	Chief, USAF Physical Medicine Research & Practice Activities, Wilford Hall Medical Center, San Antonio, TX
2008-	Associate Professor, U.S. Army-Baylor University Postprofessional Doctoral Program in Orthopaedic Manual Physical Therapy, Brooke Army Medical Center, San Antonio, TX
2008-	Associate Professor & Director of Research, U.S. Army-Baylor University Doctoral Program in Physical Therapy, Army Medical Department Center & School, Baylor University, San Antonio, TX

LICENSURE, CERTIFICATIONS, & FELLOWSHIPS:

1996-	Licensed Physical Therapist, Pennsylvania State Board of Physical Therapy	#PT-013320-L
	Examiners, Commonwealth of Pennsylvania	
1997-	Certified Strength and Conditioning Specialist, National Strength and	#976289
	Conditioning Association	
1998-	Certified Personal Trainer, National Strength and Conditioning Association	#32281098
1998-	American College of Sports Medicine Certified Health and Fitness Director	#192
2001-	Orthopaedic Clinical Specialist, American Board of Physical Therapy Specialties	#4678
2002-	Fellow, American Academy of Orthopaedic and Manual Physical Therapists	#FF0342
2008-	Licensed Physical Therapist, Executive Council of Physical Therapy &	#1185333
	Occupational Therapy State of Texas	

2010- Certificate, Executive Program in Pivate Practice Management, Evidence in Motion

PROFESSIONAL ACTIVITIES:

Life Member, U.S. Air Force Academy Association of Graduates (#940705)

1994-

2002-

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1996-	Life Member, Military Officer's Association of America
1996-	Member, U.S. Army-Baylor University Physical Therapy Alumni Association
1996-	Member, American Physical Therapy Association (#231478)
1996-	Member, Orthopaedic Section, American Physical Therapy Association
1996-1999	Member, Arizona Physical Therapy Association and Southern District, Arizona Physical
	Therapy Association
1998-2002	Member, National Strength and Conditioning Association (#96-09-24-230)
1999-2000	Member, Mississippi Physical Therapy Association
1999-2000	Member, American College of Healthcare Executives
2000-2002	Member, Pennsylvania Physical Therapy Association and Southwestern District,
	Pennsylvania Physical Therapy Association
2000-2004	Member, Military Special Interest Group, National Strength and Conditioning Association
2000-2004	Member, Sports Section, American Physical Therapy Association
2000-2004	Member, Sports Residency Special Interest Group, Sports Physical Therapy Section,
	American Physical Therapy Association
2002-	Member, Education Section, American Physical Therapy Association
2002-	Member, Research Section, American Physical Therapy Association
2002-	Fellow Member, American Academy of Orthopaedic Manual Physical Therapists (#FF0342)

Association
2003- Member, Alamo Area Chapter, U.S. Air Force Academy Association of Graduates

2003- Life Member, Association of Military Surgeons of the United States (AMSUS) (#78897)

Charter Member, Three Rivers Chapter, U.S. Air Force Academy Association of Graduates Member, Texas Physical Therapy Association and Central District, Texas Physical Therapy

2007- Member, Forbes.com CEO Network

2007- Member, Private Practice Section, American Physical Therapy Association

2007- Member (#0C0705281307), Space Adventures' Spaceflight Club

2007- Member, San Antonio Petroleum Club

2007- Member, U.S. Air Force Academy Sabre Society

2009- Member, Bulverde Area Republican Women

Professional Service:

1996-	President, Class of 1996 Alumni Association, U.S. Army-Baylor University Physical Therapy
2000	Alumni Association

- 1999- President, Mississippi State Chapter, National Strength and Conditioning Association 2000
- 1999– Center Coordinator for Clinical Education, Department of Physical Therapy, Columbus Air 2000 Force Base, Columbus, MS
- 1999- Member, 14th Flying Training Wing Medical Casualty Notification Team for the
- 2000 Southeastern region, Columbus Air Force Base, Columbus, MS
- 1999- Director, 14th Medical Group Ambassador Program, Columbus Air Force Base, Columbus, MS

1999- Member, 14th Flying Training Wing Commander's Action Group, Columbus Air Force Base,

- Columbus, MS
 Director, 14th Flying Training Wing Treasury Department's 2000 Savings Bond Campaign,
 Columbus Air Force Base, Columbus, MS
- 2001- Item Writer and Review Committee, Physical Therapist National Physical Therapy
- 2003 Examination, Federation of State Boards of Physical Therapy
- 2001- Member, Membership Committee, Orthopaedic Section, American Physical Therapy

2005 Association

2002	Designated Examiner, Health/Fitness Instructor Certification Examination, American College of Sports Medicine
2002	Physical Therapist Pass Point Study Committee, Physical Therapist National Physical Therapy Examination, Federation of State Boards of Physical Therapy
2002	Member, Revenue Generation Task Force, Orthopaedic Section, American Physical Therapy Association
2002-	Member, Specialization Academy of Content Experts, Orthopaedic Clinical Specialist Board
2004	Certification Examination, American Board of Physical Therapy Specialties
2002-	On-site reviewer for physical therapist education programs, Commission on Accreditation
2005	in Physical Therapy Education
2002-	Faculty, Advanced Clinical Practice Continuing Education Series, American Physical Therapy
2006	Association
2004	Orthopaedic Poster Tour Facilitator, Annual Conference, American Physical Therapy Association, American Physical Therapy Association
2004-	Committee of Content Experts, Orthopaedic Clinical Specialist Board Certification
2005	Examination, American Board of Physical Therapy Specialties
2003	Trustee, Texas Physical Therapy Foundation
2004-	rustee, rexastriysical merapy roundation
2003	Member, Development Committee, Texas Physical Therapy Foundation
	Member, Development Committee, Texas Physical Therapy Foundation
2005	Marshar Finance Committee Orthonocdic Continu American Physical Thorony Acceptan
2004-	Member, Finance Committee, Orthopaedic Section, American Physical Therapy Association
2006	Manchan Francischian Committee American Academy of Outbergedie and Manual Division
2004-	Member, Examination Committee, American Academy of Orthopaedic and Manual Physical
2007	Therapists Additional Control of the
2004-	Member, Orthopaedic Independent Study Course Advisory Panel, Orthopaedic Section,
2007	American Physical Therapy Association
2005-	Member, Differential Diagnosis Subcommittee, Annual Conference Program Committee,
2006	American Physical Therapy Association
2005-	Government Affairs Committee, Texas Physical Therapy Association
2006	
2006-	Reviewer, Healthwise Medical Knowledge Base, American Physical Therapy Association
2007	
2006-	Standardization Subgroup, International Classification of Function Task Force, Orthopaedic
2007	Section, American Physical Therapy Association
2006-	Chair, Cervical Spine Review Group, International Classification of Function Task Force,
2008	Orthopaedic Section, American Physical Therapy Association
2006-	Member, President's Cabinet, Foundation for Physical Therapy
2008	
2007-	Member, Program Committee, International Research Symposium, Somato-Visceral
2008	Interactions and Autonomic Mechanisms of Manual Therapy
2003-	Member, Public Relations Committee, American Academy of Orthopaedic and Manual
2009	Physical Therapists
2005-	Member, Pentagon Chiropractic Health Care Benefit Advisory Committee
2009	
2007-	Member, Scientific Advisory Committee, Foundation for Physical Therapy
2009	
2008-	Member, National Institutes of Health & National Center for Complementary and
2009	Alternative Medicine Nomenclature Conference Working Group
2008-	Member, Task Force on Product Endorsement and Evaluation Recommendations, American
2010	Physical Therapy Association
2008-	Member, Continuing Education Approval Program Task Force, Texas Physical Therapy
2010	Association
2008-	Member, Low Back Pain Toolkit Task Force, VA/DoD Low Back Pain Guideline Committee
2010	
2008-	Member, Communications Task Force, American Physical Therapy Association
2010	

Member, Research Agenda Task Force, Orthopaedic Section, American Physical Therapy 2008-2010 Association 2009-Poster Discussion Leader, Annual Conference & Exposition, American Physical Therapy 2010 Association Treasurer, American Academy of Orthopaedic and Manual Physical Therapists 2005-2010 Member, Research Committee, American Academy of Orthopaedic Manual Physical 2002-Therapists 2003-Member, Hooked on Evidence Extraction Review Group, American Physical Therapy Association 2004-Orals Board Examiner, U.S. Army-Baylor University Doctoral Program in Physical Therapy Member, Research Exchange Group, Combined Sections Meeting, Orthopaedic Section, 2005-American Physical Therapy Member, Michels Forum Planning Committee, Section on Research, American Physical 2006-Therapy Association 2006-Member, Annual Awards Task Force, Texas Physical Therapy Association Member, Graham Session, Private Practice Section, American Physical Therapy Association 2008-2009-Expert Reviewer for Medical Malpractice Claims, Medical Law Branch, Air Force Medical Service 2010-Member, Media Corps, American Physical Therapy Association 2010-Member, Data Safety & Monitoring Board, Impact of a Manipulation Decision Rule on Low Back Pain in Primary Care (Julie M. Fritz, PI), Agency for Healthcare Research and Quality Member, Fellowship Renewal Task Force, American Academy of Orthopaedic and Manual 2010-Physical Therapists 2011 Member, Executive Committee, R13 grant application, National Center for Complementary and Alternative Medicine, "Current Research Status of Manipulative Therapy" Peer-Review Service: 2003-Editorial Review Board Member, J Orthop Sports Phys Ther 2004 2004-Grant reviewer, Texas Physical Therapy Foundation 2005 2004-Guest Associate Editor, Special issue on Primary Care Physical Therapy, J Orthop Sports 2005 Phys Ther 2003-Grant reviewer, American Academy of Orthopaedic and Manual Physical Therapists 2006 2004-Member, Committee for Screening Abstracts and Proposals, American Physical Therapy 2006 Association 2006 Reviewer, American Pain Society and American College of Physicians Clinical Guidelines for the Management of Low Back Pain 2004-Chair, Research Committee, Texas Physical Therapy Association 2007 2006-Case Report Committee, Physical Therapy 2007 2005-Grant reviewer, Orthopaedic Section, American Physical Therapy Association 2008 Reviewer, Occupational Medicine Practice Guidelines, 2nd Edition, American College of 2007 Occupational and Environmental Medicine Subject Matter Expert for development of multimedia educational low back pain DVD, U.S. 2009 Air Force Center of Excellence for Medical Multimedia (http://www.lowbackpainatoz.org) Reviewer, Occupational Medicine Practice Guidelines, 3rd Edition, American College of 2010 Occupational and Environmental Medicine Manuscript reviewer: Annals of Internal Medicine, British Medical Journal, Spine, BMC 2002-Musculoskeletal Disorders, Journal of Bone and Joint Surgery, Physical Therapy, Journal of Hand Therapy, Journal of Orthopaedic and Sports Physical Therapy, Physical Therapy, Archives of Physical Medicine and Rehabilitation, Manual Therapy, Clinical Biomechanics,

- Arthritis Care and Research, Clinical Orthopaedics & Related Research, American Journal of Sports Medicine, Military Medicine, HPA Journal
- 2002- Member, Abstract Review Committee, Orthopaedic Section, American Physical Therapy Association
- 2004- Member, Abstract Review Committee, Section on Research, American Physical Therapy Association
- 2005- Associate Editor, Journal of Orthopaedic and Sports Physical Therapy
- 2006- Editorial Board Member, Physical Therapy
- 2009- Subject Matter Expert for Product Line Review, Rehabilitative Medicine/Military Amputee Research Program, Telemedicine & Advanced Technology Research Center
- 2010- Member, External Reviewer Grant Committee, Orthopaedic Section, American Physical Therapy Association

Service on Student/Resident Advisory Committees

- Faculty Research Advisory Committee, U.S. Army-Baylor University Graduate Program in Physical Therapy (Class 2004), "Does ultrasound biofeedback improve performance of the abdominal drawing-in maneuver in patients with chronic low back pain?"
- Faculty Research Advisory Committee (Class 2006), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Preferential activation of the transversus abdominus muscle during core lumbar stabilization exercises"
- 2003- Doctoral Dissertation Committee (Joshua A. Cleland), Nova Southeastern University,
- 2006 "Development of a clinical prediction rule to identify patients with neck pain likely to benefit from thoracic spine manipulation"
- Faculty Research Advisory Committee (Class 2007), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Comparison of two spinal manipulations for the treatment of low back pain as measured by patient self-reports of pain and function: A randomized clinical trial"
- Faculty Research Advisory Committee (Class 2007), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Long term effectiveness of the Army's running shoe program: an analysis of soldiers' knowledge and shoe selection"
- Faculty Research Advisory Committee (Class 2008), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Assessment of the lateral abdominal muscles in subjects with sacroiliac dysfunction during the active straight-leg-raise test"
- Faculty Research Advisory Committee (Class 2008), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Predictive validity of selected clinical examination findings for the diagnosis of hip osteoarthritis"
- 2006- Doctoral Dissertation Committee (Class 2006), U.S. Army Post-professional Doctoral 2007 Program in Orthopaedic Manual Physical Therapy, "A clinical prediction rule for classifying patients with neck pain who demonstrate short-term improvement with cervical traction"
- 2006- Faculty Research Advisory Committee (Class 2009), U.S. Army-Baylor Doctoral Program in Physical Therapy, "The effect of traditional sit-up training versus core stabilization exercises on physical fitness test sit-up performance in Soldiers during Advanced Individual Training"
- Faculty Research Advisory Committee (Class 2009), U.S. Army-Baylor Doctoral Program in Physical Therapy, "A comparison of abdominal and posterior trunk muscle thickness to physical performance tests in soldiers during advanced individual training"
- Doctoral Dissertation Committee (Shawn J. Scott), University of Texas, "The effects of walking speed and an uneven surface on dynamic stability: A lower extremity amputee study"
- Doctoral Dissertation Committee (Lise Stolze), Rocky Mountain University of Health
 Professions, "A clinical prediction rule for classifying patients with chronic low back pain most likely to benefit from Pilates exercise"
- 2007- Doctoral Dissertation Committee (John McGee), University of Pittsburgh, Cost
- 2009 effectiveness of classification-based physical therapy in an academic medical center"
- 2007- Doctoral Dissertation Committee (Duneley A. Rochino), U.S. Army Post-professional
- Doctoral Program in Orthopaedic Manual Physical Therapy, "Pain and functional outcomes in patients with lumbar spinal stenosis treated with orthopaedic manual physical therapy

- and exercise: An observational study" 2007-Faculty Research Advisory Committee (Class 2010), U.S. Army-Baylor Doctoral Program in 2010 Physical Therapy, "The effect of traditional physical training versus core stabilization exercises on injury and lost training in Soldiers during Advanced Individual Training" 2007-Faculty Research Advisory Committee (Class 2010), U.S. Army-Baylor Doctoral Program in 2010 Physical Therapy, "The effect of traditional physical training versus core stabilization exercises on abdominal and trunk muscle function and muscle endurance in Soldiers during Advanced Individual Training" 2008-Faculty Research Advisory Committee (Class 2011), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Predictors of follow-up in the Prevention of Low Back Pain in the 2011 Faculty Research Advisory Committee (Class 2011), U.S. Army-Baylor Doctoral Program in 2008-2011 Physical Therapy, "Lower extremity physical performance in healthy active duty service members: A reliability study" 2009-Faculty Research Advisory Committee (Class 2012), U.S. Army-Baylor Doctoral Program in 2012 Physical Therapy, "Impact of the U.S. Army-Baylor University Doctoral Program in Physical Therapy internship program on access to care" 2009-Faculty Research Advisory Committee (Class 2012), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Knowledge of acute low back pain management among physical 2012 therapists and physicians in the uniformed services" Faculty Research Advisory Committee (Class 2013), U.S. Army-Baylor Doctoral Program in 2010-
- therapy"
 2010- Faculty Research Advisory Committee (Class 2013), U.S. Army-Baylor Doctoral Program in
 Physical Therapy, "Incremental effects of adding a phone call center on follow-up in the
 Prevention of Low Back Pain in the Military trial"

Physical Therapy, "Assessment of cardiovascular risk factors in outpatient physical

Consultant/Advisory Work:

2013

- Consultant to Valley Forge Military Academy for development of honor code policy
 Fitness consultant to U.S. Marine Corps, National Strength and Conditioning Association
 Strength and Conditioning Advisor to the National Strength and Conditioning Association
 Education and Business Practice Consultant to the Associate Chief for Physical Medicine,
 Physical Therapy Career Field, U.S. Air Force
 Eller College Associate, Eller College of Business and Public Administration, University of
- Arizona
 2004- Consultant to Walter Reed Army Medical Center's Military Spine Conference on optimizing
- procedures for returning military personnel to high risk activities after spinal surgery
 Council member and consultant, Council of Healthcare Advisors, Gerson Lehrman Group
 Field consultant to the Air Force Medical Service Surgeon General for musculoskeletal
 clinical practice, research, and injury prevention
- 2005- Medical Scientist and Practitioner Advisor, Crownstone Insights
- 2005- Consultant, MEDACorp
- 2005- Consultant, P\S\L Group's Healthcare Advisory Board
- 2005- Member, ACN Group National Advisory Committee
- 2006- Consultant, Emmi Solutions, Development of acute low back pain multimedia educational program

HONORS & AWARDS:

- Distinguished Graduate, (top 7%, with academic and military distinction), U.S. Air Force Academy, Colorado Springs, CO
- John C. K. Milligan Award, Chairman of the Cadet Honor Committee, U.S. Air Force Academy, Colorado Springs, CO
- 1994 Air Force Organizational Excellence Award, U.S. Air Force Academy, Colorado Springs, CO
- 1997 Company Grade Officer of the Quarter (Jan-Mar), 355th Medical Group and Medical Operations Squadron, Tucson, AZ

- 1998 Company Grade Officer of the Quarter (Apr-Jun), 355th Medical Group and Medical Operations Squadron, Tucson, AZ
- 1998 Distinguished Graduate, Expert Field Medical Badge, Arizona Army National Guard
- 2000 Air Force Commendation Medal, 14th Flying Training Wing, Columbus, MS
- 2000 Company Grade Officer of the Quarter (Jan-Mar), 14th Flying Training Wing, Medical Group, and Medical Operations Squadron, Columbus, MS
- 2000 Company Grade Physical Therapist of the Year, Air Education and Training Command
- 2000 Company Grade Physical Therapist of the Year, Air Force Medical Service
- 2001 Outstanding Unit Award, 14th Medical Group and 14th Operations Squadron, Columbus AFB, Columbus, MS
- 2002 Promotion of Doctoral Opportunities for Clinicians and Scholars Award (\$7500), Foundation for Physical Therapy
- 2003 Oral Presentation Award, 4th Place, 1st Annual 59th Medical Wing Wilford Hall Medical Center Research Appreciation Day, "Alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis"
- 2003 Excellence in Research Award, American Academy of Orthopaedic Manual Physical Therapists, "Validation of a clinical prediction rule to identify patients with low back pain likely to benefit from spinal manipulation: A randomized clinical trial"
- 2004 Air Force Outstanding Unit Award, 59th Medical Wing, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX
- The Discovery Health Clinical Excellence Award in Back Care, Discovery Institute, 8th International Congress of the International Federation of Orthopaedic Manipulative Therapists, "A comparison between two physical therapy treatment programs for subjects with lumbar spinal stenosis: A randomized clinical trial"
- 2004 Runner up, Researcher of the Year, 59th Medical Wing, Wilford Hall Medical Center
- Oral Presentation Award, 4th place, 2nd Annual 59th Medical Wing Wilford Hall Medical Center Research Appreciation Day, "Which patients with low back pain benefit from spinal manipulation? Validation of a clinical prediction rule"
- 2004 Postdoctoral Research Fellow Award (\$30,000), University of Pittsburgh
- Outstanding Research Platform Presentation Award, Texas Physical Therapy Association, "Which patients with low back benefit from spinal manipulation? Validation of a clinical prediction rule"
- 2004 Excellence in Research Award, American Academy of Orthopaedic Manual Physical Therapists, "Immediate effects of thoracic manipulation in patients with neck pain: A randomized clinical trial"
- 2005 Manuscript Reviewer of the Year, *Physical Therapy* journal
- Outstanding Research Platform Presentation Award, Texas Physical Therapy Association, "Ultrasound imaging of the deep abdominal muscles during core stabilization exercises"
- 2005 Ruby Decker Award, Texas Physical Therapy Association
- 2005 Rose Excellence in Research Award, Orthopaedic Section, American Physical Therapy Association, "A clinical prediction rule to identify patients with low back pain most likely to benefit from spinal manipulation: A validation study"
- 2005 Field Grade Physical Therapist of the Year, Air Force Medical Service
- 2005 Air Force Meritorious Service Medal, Lackland Air Force Base, San Antonio, TX
- 2006 Eugene Michels New Investigator Award, American Physical Therapy Association
- 2006 COL David G. Greathouse Excellence in Research Award, US Army-Baylor University Doctoral Program in Physical Therapy, "Ultrasound imaging of the deep abdominal muscles during core stabilization exercises"
- 2006 Field Grade Officer of the Quarter (Jul-Sep), Air Force Element Medical DoD, San Antonio, TX
- Outstanding Research Poster Presentation Award, Texas Physical Therapy Association, "Awareness and compliance with recommended physical activity and running shoe guidelines among American Soldiers"
- Outstanding Research Platform Presentation Award, Texas Physical Therapy Association, "Comparison of short-term response to two spinal manipulation techniques for patients with low back pain"
- 2006 Outstanding Physical Therapy Researcher Award, Texas Physical Therapy Association

- 2006 Physical Therapy Team of the Year, Wilford Hall Medical Center, U.S. Air Force
- 2007 Excellence in Research Award, Section on Geriatrics, American Physical Therapy Association, "A comparison between two physical therapy treatment programs for patients with lumbar spinal stenosis: A randomized clinical trial"
- 2008 COL David G. Greathouse Excellence in Research Award, US Army-Baylor University Doctoral Program in Physical Therapy, Predictive validity of selected clinical examination findings for the diagnosis of hip OA
- 2007 Charles M. Magistro Distinguished Lecturer Award, Arcadia University
- Outstanding Research Platform Presentation Award, Texas Physical Therapy Association, "Development of a clinical prediction rule for the diagnosis of hip osteoarthritis in patients with unilateral hip pain"
- Outstanding Research Platform Presentation Award, Texas Physical Therapy Association, "Lateral abdominal muscle behavior in subjects with lumbopelvic pain during the active straight leg raise test"
- 2007 Richard E. Erhard Excellence in Research Award, American Academy of Orthopaedic Manual Physical Therapists, "Development of a clinical prediction rule for guiding treatment of a subgroup of patients with neck pain: use of thoracic spine manipulation, exercise, and patient education"
- Jack Walker Award, American Physical Therapy Association, "Short-term effects of thrust versus nonthrust mobilization/manipulation directed at the thoracic spine in patients with neck pain: A randomized clinical trial"
- 2008 William Gould Memorial Faculty Award, Texas Physical Therapy Association
- 2008 Order of Military Medical Merit Award, Army Medical Department
- 2008 U.S. Air Force Outstanding Achievement in Clinical Research Award, Air Force Medical Service
- 2009 COL David G. Greathouse Excellence in Research Award, US Army-Baylor University Doctoral Program in Physical Therapy, "The effects of traditional sit-up training versus core stabilization exercises on sit-up performance on us army soldiers: A cluster randomized trial"
- 2009 Leader in Physical Therapy Award, Division of Physical Therapy, Ohio State University
- 2009 Colonel Mary Lipscomb Hamrick Army Medical Specialists Corps Abstract Award, "Effects of sit-up training vs. core stabilization exercises on sit-up performance"
- 2009 Commencement Speaker, Class 2009 Physical Therapist Graduation Ceremony, Elon University
- 2010 COL David G. Greathouse Excellence in Research Award, US Army-Baylor University Doctoral Program in Physical Therapy, "Effects of traditional sit-up training versus core stabilization exercises on short-term musculoskeletal injury rates in US Army soldiers: A randomized clinical trial"

PEER-REVIEWED PUBLICATIONS (PUBLISHED, IN PRESS, AND IN REVIEW):

- 1. <u>Childs JD</u>. The impact of the valsalva maneuver during resistance exercise. Strength and Conditioning Journal. 1999; 21(2):54-55.
- 2. Fitzgerald GK, <u>Childs JD</u>, Ridge TM, Irrgang JJ. Agility and perturbation training for a physically active individual with knee osteoarthritis. Physical Therapy. 2002; 82(4):372-382. <u>PMID:</u> 11922853.
- Childs JD, Gantt C, Higgins D, Papazis JA, Franklin R, Metzler T, Underwood FB. The effect of repeated bouts of backward walking on physiologic efficiency. J Strength Cond Res. 2002; 16(3):451-455. PMID: 12173962.
- 4. Bizzini M, Childs JD, Piva SR, Delitto A. Systematic review of the quality of randomized controlled trials for Patellofemoral Pain Syndrome. J Orthop Sports Phys Ther. 2003; 33(1):4-20. PMID: 12570282.
- 5. <u>Childs JD</u>, Fritz JM, Piva SR, Erhard RE. Clinical decision-making in the identification of patients likely to benefit from spinal manipulation: A traditional versus an evidence-based approach. J Orthop Sports Phys Ther. 2003; 33(5):259-272. PMID: 12775000.
- 6. <u>Childs JD</u>, Piva SR, Erhard RE, Hicks GE. Side-to-side weight-bearing asymmetry in patients with low back pain. Man Ther. 2003; 8(3):166-169. PMID: 12909437.

- 7. Piva SR, Erhard RE, <u>Childs JD</u>, Hicks GE, Al-Abdulmohsin H. Reliability of measuring iliac crest height in the standing and sitting position using a new measurement device. J Manipulative Physiol Ther. 2003; 26(7):437-441. <u>PMID</u>: 12975630.
- 8. <u>Childs JD</u>, Sparto PJ, Fitzgerald GK, Bizzini M, Irrgang JJ. Alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis. Clin Biomech. 2004; 19(1):44-49. <u>PMID</u>: 14659929.
- 9. Fritz JM, Whitman JM, Flynn TW, Wainner RS, <u>Childs JD</u>. Factors related to the inability of individuals with low back pain to improve with a spinal manipulation. Phys Ther. 2004; 84(2):173-190. <u>PMID</u>: 14744207.
- 10. <u>Childs JD</u>, Piva SR, Erhard RE. Immediate improvements in side-to-side weight-bearing and iliac crest symmetry after manipulation in patients with low back pain. J Manipulative Physiol Ther. 2004; 27(5):306-313. <u>PMID</u>: 15195038.
- 11. Whitman JM, Fritz JM, <u>Childs JD</u>. The influence of experience and specialty certifications on clinical outcomes for patients with low back pain treated within a standardized physical therapy management program. J Orthop Sports Phys Ther. 2004; 34(11):662-675. <u>PMID</u>: 15609487.
- 12. <u>Childs JD</u>, Fritz JM, Piva SR, Whitman JM. Proposal of a classification system for patients with neck pain. J Orthop Sports Phys Ther. 2004; 34(11):686-696. <u>PMID</u>: 15609489.
- 13. <u>Childs JD</u>, Fritz JM, Flynn TW, Irrgang JJ, Johnson KK, Majkowski GR, Delitto A. A clinical prediction rule to identify patients with low back pain who will benefit from spinal manipulation: A validation study. Ann Int Med. 2004; 141(12):920-928. <u>PMID</u>: 15611489.
- 14. <u>Childs JD</u>, Fritz JM, Flynn TW, Piva SR, Whitman JM, Wainner RS, Greenman PE. Screening for vertebrobasilar insufficiency in patients with neck pain: Manual therapy decision-making in the presence of uncertainty. J Orthop Sports Phys Ther. 2005; 35(5):300-306. <u>PMID</u>: 15966541.
- 15. Cleland JA, <u>Childs JD</u>, McRae M, Palmer JA, Stowell T. Immediate effects of thoracic manipulation in patients with neck pain: A randomized clinical trial. Man Ther. 2005; 10(2):127-135. <u>PMID: 15922233</u>.
- 16. <u>Childs JD</u>, Piva SR, Fritz JM. Responsiveness of the numeric pain rating scale in patients with low back pain. Spine. 2005; 30(11):1331-1334. <u>PMID</u>: 15928561.
- 17. <u>Childs JD</u>, Whitman JM, Pugia ML, Sizer PS, Flynn TW, Delitto A. A description of physical therapists' knowledge in managing musculoskeletal conditions. BMC Musculoskelet Disord. 2005; 6(1):32. http://www.biomedcentral.com/1471-2474/6/32. PMID: 15963232.
- 18. Teyhen DS, Miltenberger CE, Deiters HM, Del Toro YM, Pulliam JN, <u>Childs JD</u>, Boyles RE, Flynn TW. The use of ultrasound imaging of the abdominal drawing-in maneuver in subjects with low back pain. J Orthop Sports Phys Ther. 2005; 35(6):346-355. <u>PMID</u>: 16001906.
- 19. Fritz JM, Childs JD, Flynn TW. Pragmatic application of a clinical prediction rule in primary care to identify patients with low back pain with a good prognosis following a brief spinal manipulation intervention. BMC Fam Pract. 2005; 6(1):29. http://www.biomedcentral.com/1471-2296/6/29. PMID: 16018809.
- 20. Whitman JM, <u>Childs JD</u>, Walker V. The use of manipulation in a patient with an ankle sprain injury not responding to conventional management: A case report. Man Ther. 2005; 10(3):224-231. PMID: 16038858.
- 21. Fritz JM, Piva SR, <u>Childs JD</u>. Accuracy of the clinical examination to predict radiographic instability of the lumbar spine. Eur Spine J. 2005; 14(8):743-750. <u>PMID</u>: 16047211.
- 22. Fritz JM, Whitman JM, <u>Childs JD</u>. Lumbar spine segmental mobility assessment: An examination of validity for determining intervention strategies in patients with low back pain. Arch Phys Med Rehabil. 2005; 86(9):1745-1752. <u>PMID</u>: 16181937.
- 23. <u>Childs JD</u>, Piva SR. Psychometric properties of the functional rating index in patients with low back pain. Eur Spine J. 2005; 14(10):1008-12. <u>PMID</u>: 15834591.
- 24. Cleland JA, <u>Childs JD</u>, Palmer JA, McRae M. Slump stretching in the management of non-radicular low back pain: A pilot clinical trial. Man Ther. 2006; 11(4):279-286. <u>PMID: 16380286</u>.
- 25. Piva, SR. Goodnite EA, <u>Childs JD</u>. Strength around the hip and flexibility of soft tissues in individuals with and without patellofemoral pain syndrome. J Orthop Sports Phys Ther. 2005; 35(12):793-801. <u>PMID</u>: 16848100.
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- 32. <u>Childs JD</u>, Flynn TW, Fritz JM, Whitman JM (Childs). Clinician experience and patient outcome from spinal manipulation. Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2004.
- 33. Whitman JM, Flynn TW, Wainner RS, Garber MB, Ryder M, Gill H, Atkins D, <u>Childs JD</u>, Fritz JM, Bennett A (Whitman). A comparison between two physical therapy treatment programs for subjects with lumbar spinal stenosis: A randomized clinical trial. 8th International Congress of the International Federation of Orthopaedic Manipulative Therapists, Cape Town, South Africa, Mar 2004.
- 34. <u>Childs JD</u>, Fritz JM, Flynn TW, Irrgang JJ, Johnson KK, Majkowski GR, Delitto A. (Childs). Which patients with low back pain benefit from spinal manipulation? Validation of a clinical prediction rule. 2nd Annual 59th Medical Wing Research Appreciation Day, San Antonio, TX, Jun 2004.
- 35. <u>Childs JD</u>, Fritz JM, Flynn TW, Irrgang JJ, Johnson KK, Majkowski GR, Delitto A (Childs). Which patients with low back pain benefit from spinal manipulation? Validation of a clinical prediction rule. Annual Conference, Texas Physical Therapy Association, Austin, TX, Oct 2004.
- 36. Miltenberger CE, Teyhen DS, Deiters HM, Del Toro YM, Pulliam JN, <u>Childs JD</u>, Boyles RE, Flynn TW (Pulliam). Does ultrasound biofeedback improve performance of the abdominal drawing-in maneuver in patients with chronic low back pain? Annual Conference, Texas Physical Therapy Association, Austin, TX, Oct 2004.
- 37. <u>Childs JD</u>, Fritz JM, Flynn TW, Irrgang JJ, Delitto A, Johnson KK, Majkowski GR (Fritz). Which patients with low back pain benefit from spinal manipulation? Validation of a clinical prediction rule. Alberta International Forum VII for Primary Care Research in Low Back Pain, Calgary, Alberta, Canada, Oct 2004.
- 38. Fritz JM, <u>Childs JD</u>, Brennan GP, Whitman JM, Hunter SJ, Thackeray A (Fritz). The impact of recurrency on fear-avoidance beliefs and outcomes of physical therapy treatment in a cohort of patients with low back pain. Alberta International Forum VII for Primary Care Research in Low Back Pain, Calgary, Alberta, Canada, Oct 2004.
- 39. Cleland JA, <u>Childs JD</u>, McRae M, Palmer JA, Stowell T (Cleland). Immediate effects of throacic spine manipulation in patients with neck pain: A randomized clinical trial. Annual Meeting, American Academy of Orthopaedic Manual Physical Therapists, Louisville, KY, Oct 2004.
- 40. <u>Childs JD</u>, Fritz JM, Flynn TW (Childs). Risks associated with the failure to offer manipulation for patients with low back pain. Annual Meeting, American Academy of Orthopaedic Manual Physical Therapists, Louisville, KY, Oct 2004.
- 41. Fritz JM, Childs JD, Whitman JM (Fritz). Lumbar spine segmental mobility assessment: an examination of validity for determining intervention strategies for patients with low back pain (Fritz). 5th Interdisciplinary World Congress on Low Back and Pelvic Pain, Melbourne, Australia, Nov 2004.
- 42. <u>Childs JD</u>, Fritz JM, Flynn TW, Irrgang JJ, Delitto A, Johnson KK, Majkowski GR (Fritz). Conflicting evidence exists regarding the effectiveness of spinal manipulation for patients with low back pain. 5th Interdisciplinary World Congress on Low Back and Pelvic Pain, Melbourne, Australia, Nov 2004.
- 43. Whitman JM, Fritz JM, <u>Childs JD</u> (Whitman). The influence of experience and specialty certifications on clinical outcomes for patients with low back pain. 5th Interdisciplinary World Congress on Low Back and Pelvic Pain, Melbourne, Australia, Nov 2004.
- 44. Miltenberger CE, Teyhen DS, Deiters HM, Del Toro YM, Pulliam JN, <u>Childs JD</u>, Boyles RE, Flynn TW (Teyhen). Does ultrasound biofeedback improve performance of the abdominal drawing-in maneuver in patients with chronic low back pain? Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2005.

- 45. <u>Childs JD</u>, Whitman JM, Pugia ML, Sizer PS, Flynn TW, Delitto A. Competency in musculoskeletal medicine: Physical therapists vs. physicians (Childs). Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2005.
- 46. Teyhen DS, Flynn TW, <u>Childs JD</u>, Abraham LD (Teyhen). Lumbar spine kinematics among patients likely to benefit from a lumbar stabilization exercise program. Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2005.
- 47. Young BA, Walker MJ, Strunce JB, Boyles R, Whitman JM, <u>Childs JD</u> (Young). Responsiveness of the Neck Disability Index in patients with neck disorders. Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2005.
- 48. Cleland JA, <u>Childs JD</u>, Palmer JA, McRae M (Childs). Slump stretching in the management of non-radicular low back pain: A pilot clinical trial. Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2005.
- 49. Whitman JM, Flynn TW, Wainner RS, Fritz JM, Childs JD, Garber MB, Ryder M, Gill H, Bennett A (Whitman). A comparison between two physical therapy treatment programs for subjects with lumbar spinal stenosis: A randomized clinical trial. Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2005.
- 50. George SZ, Fritz JM, <u>Childs JD</u> (George). Sex differences in response to intervention for low back pain. Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA. Feb 2005.
- 51. Teyhen DS, Flynn TW, <u>Childs JD</u>, Kuklo TR, Rosner MK, Polly DW, Abraham LD (Teyhen). Identifying kinematic movement patterns in patients with lumbar segmental instability. Annual Meeting, International Society for the Study of the Lumbar Spine, New York, NY, May 2005.
- 52. Teyhen DS, Flynn TW, <u>Childs JD</u>, Kuklo TR, Rosner MK, Polly DW, Abraham LD (Teyhen). Description of lumbar spine kinematics: A novel approach using digital fluoroscopic video. Annual Meeting, International Society for the Study of the Lumbar Spine, New York, NY, May 2005.
- 53. Teyhen DS; Rieger JL; Westrick RB; Miller AC; Molloy JM; Wainner RS; Childs JD (Rieger). Ultrasound imaging of the deep abdominal muscles during core stabilization exercises. Force Health Protection Conference, Louisville, KY, Aug 2005.
- 106. Cleland JA, Fritz JM, Whitman JM, <u>Childs JD</u>, Palmer JA (Cleland). The use of a lumbar spine manipulation technique in patients who satisfy a clinical prediction rule: A case series. Annual Meeting, American Academy of Orthopaedic Manual Physical Therapists, Salt Lake City, UT, Oct 2005.
- 54. Whitman JM, Flynn TW, Fritz JM, Wainner RS, <u>Childs JD</u>, Garber MB, Ryder M, Gill H, Atkins D, Bennett A (Whitman). Associations between clinical examination findings and outcomes for patients with lumbar spinal stenosis who were treated with physical therapy interventions. Annual Meeting, American Academy of Orthopaedic Manual Physical Therapists, Salt Lake City, UT, Oct 2005.
- 55. Teyhen DS; Rieger JL; Westrick RB; Miller AC; Molloy JM; Wainner RS; Childs JD (Teyhen). Ultrasound imaging of the deep abdominal muscles during core stabilization exercises. Annual Conference, Texas Physical Therapy Association, Houston, TX, Oct 2005.
- 56. Teyhen D, Rieger J, Westrick R, Miller A, Molloy J, Wainner R, <u>Childs JD</u> (Rieger). Ultrasound imaging of the deep abdominal muscles during core stabilization exercises. Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2006.
- 57. Piva SR, Fitzgerald GK, Irrgang JJ, Jones S, Hando B, <u>Childs JD</u> (Piva). Reliability of measures of impairments associated with patellofemoral pain syndrome. Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2006.
- 58. Piva SR, Fitzgerald GK, Irrgang JJ, Fritz JM, <u>Childs JD</u>, Delitto A (Piva). Association between impairments and function in individuals with patellofemoral pain syndrome. Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2006.
- 59. Thomas R, Teyhen DS, Roberts, C, Gray B, Robbins T, <u>Childs JD</u>, Molloy J (Thomas). Physical activity and injury prevention needs assessment among US Army soldiers. Force Health Protection Conference, Albuquerque, NM, Aug 2006.
- 60. Raney N, Teyhen DS, <u>Childs JD</u> (Raney). Changes in lateral abdominal muscle function after spinal manipulation: A case series. Annual Meeting, American Academy of Orthopaedic Manual Physical Therapists, Charlotte, NC, Oct 2006.

- 61. Whitman JM, Cleland JA, Bieniek ML, Magel JM, Mintken PE, Keirns MA, <u>Childs JD</u> (Magel). Outcomes achieved by patients status post ankle sprain treated with manual physical therapy and exercise interventions: A preliminary report. Annual Meeting, American Academy of Orthopaedic Manual Physical Therapists, Charlotte, NC, Oct 2006.
- 62. Cleland JA, Glynn PE, Whitman JM, Eberhart SL, MacDonald C, <u>Childs JD</u> (Glynn). Short-term response of thoracic spine thrust versus non-thrust manipulation in patients with mechanical neck pain: Preliminary analysis of a randomized clinical trial. Annual Meeting, American Academy of Orthopaedic Manual Physical Therapists, Charlotte, NC, Oct 2006.
- 63. Cleland JA, <u>Childs JD</u>, Fritz JM, Whitman JM, Eberhart SL (Cleland). A clinical prediction rule for classifying patients with neck pain who demonstrate short-term improvement with thoracic spine thrust manipulation. Annual Meeting, American Academy of Orthopaedic Manual Physical Therapists, Charlotte, NC, Oct 2006.
- 64. Teyhen DS, Thomas RM, Darst CC, Gray BE, Robbins TL, <u>Childs JD</u>, McPoil TM, Molloy JM (Thomas). Awareness and compliance with recommended physical activity and running shoe guidelines among American Soldiers. Proceedings of the Annual Conference, Texas Physical Therapy Association. 2006.
- 65. Sutlive TG, Mabry LM, Easterling EJ, Durbin JD, Hanson SL, Wainner RS, <u>Childs JD</u> (Hanson). Comparison of short-term response to two spinal manipulation techniques for patients with low back pain. Proceedings of the Annual Conference, Texas Physical Therapy Association. 2006.
- 66. Cleland J, Glynn P, Whitman JM, Eberhart SL, MacDonald C, <u>Childs JD</u> (Cleland). Short-term response of thoracic spine thrust versus nonthrust manipulation in patients with mechanical neck pain: A randomized clinical trial. Combined Sections Meeting, American Physical Therapy Association, Boston, MA, Feb 2007.
- 67. Sutlive TG, Mabry LM, Easterling EJ, Durbin JD, Hanson SL, Wainner RS, <u>Childs JD</u> (Mabry). Comparison of short-term response to 2 spinal manipulation techniques for patients with low back pain. Combined Sections Meeting, American Physical Therapy Association, Boston, MA, Feb 2007.
- 68. Browder D, <u>Childs JD</u>, Cleland J, Fritz J (Browder). Effectiveness of an extension-oriented treatment approach in a subgroup of patients with low back pain: A randomized clinical trial. Combined Sections Meeting, American Physical Therapy Association, Boston, MA, Feb 2007.
- 69. George SZ, Fritz JM, <u>Childs JD</u> (George). Elevated fear-avoidance beliefs for subjects participating in physical therapy clinical trials. Combined Sections Meeting, American Physical Therapy Association, Boston, MA, Feb 2007.
- 70. Teyhen DS, Thomas RM, Darst CC, Gray BE, Robbins TL, <u>Childs JD</u>, McPoil T, Molloy JM (Teyhen). Awareness and compliance with recommended physical activity and running shoe guidelines among American soldiers. Combined Sections Meeting, American Physical Therapy Association, Boston, MA, Feb 2007.
- 71. George SZ, Childs JD, Teyhen DS, Wu SS, Wright AC, Dugan JL, Robinson ME (Teyhen). Rationale, design, and protocol for the prevention of low back pain in the military (POLM) trial (NCT00373009). 10th Annual Force Health Protection Conference, Louisville, KY, Aug 2007.
- 72. Sutlive TG, Lopez HP, Schnitker DE, Yawn SE, Halle RJ, Mansfield LT, Boyles RE, Childs JD (Lopez). Development of a clinical prediction rule for diagnosing hip osteoarthritis in patients with unilateral hip pain. Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
- 73. Raney NH, Petersen EJ, Smith TA, Cowan JE, Rendeiro DG, Deyle GD, <u>Childs JD</u> (Raney). A clinical prediction rule for classifying patients with neck pain who demonstrate short-term improvement with cervical traction and exercise. Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
- 74. Teyhen DS, Williamson JN, Carlson NH, Suttles ST, O'Laughlin SJ, Whittaker JL, Goffar SL, Childs JD (Williamson). Lateral abdominal muscle behavior in subjects with lumbopelvic pain during the active straight leg raise test. Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
- 75. Teyhen DS, Mooney LN, Dolbeer JA, Baker SE, Molloy JM, Whittaker J, <u>Childs JD</u> (Teyhen). Lateral abdominal muscle behavior in subjects with lumbopelvic pain during the abdominal drawing-in maneuver. Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.

- 76. Davenport TE, Cleland JA, Lewthwaite R, Yamada KA, <u>Childs JD</u>, Fritz JM, Kulig K (Davenport). Responsiveness of the low-back activity confidence scale in a subgroup of patients with lower back pain: Preliminary analysis. Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
- 77. Cleland JA, Fritz JM, <u>Childs JD</u>, Kulig K, Eberhart S, Davenport TE, Magel J, Landel RF (Cleland). Generalizability of a clinical prediction rule for identifying patient with low back pain who are likely to respond rapidly to thrust manipulation. Annual Meeting, American Academy of Orthopaedic Physical Therapists, Seattle, WA, Oct 2008.
- 78. Cleland J, Fritz J, Kulig K, Davenport TE, Eberhart S, Magel JS, <u>Childs JD</u>. Comparison of the effectiveness of three manual physical therapy techniques in a subgroup of patients with low back pain who satisfy a clinical prediction rule: A randomized clinical trial (Cleland). Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
- 79. Childs JD, George SZ, Wright A, Dugan JL, Benedict T, Bush J, Fortenberry A, Preston J, McQueen R, Teyhen DS (Childs). The effects of traditional sit-up training versus core stabilization exercises on sit-up performance in US Army Soldiers: A cluster randomized trial (NCT00373009). Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
- 80. Teyhen DS, <u>Childs JD</u>, Hall NM, Gervacio SC, Lopez JA, Mitchler JR, Wright A, Dugan JL, George SZ (Wright). The influence of sex, height, and weight on trunk muscle thickness and endurance. Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
- 81. George SZ, Teyhen DS, Wu SS, Wright A, Dugan JL, Yang G, Robinson ME, <u>Childs JD</u> (George). Psychosocial education improves low back pain beliefs: Results from a cluster randomized clinical trial (NCT00373009). Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
- 107. <u>Childs JD</u>, Teyhen DS, Casey P, McCoy-Singh K, Weston A, George SZ, Wright AC, Dugan JL (Childs). The effects of traditional sit-up training versus core stabilization exercises on musculoskeletal injury rates in US Army Soldiers: A cluster randomized trial (NCT00373009). Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2010.
- 108. Cleland J, <u>Childs JD</u>, Glynn PE, Mintken P, Carpenter K, Whitman J. Thoracic spine manipulation and exercise versus exercise alone in the management of mechanical neck pain: Preliminary analysis of a randomized clinical trial (Cleland). Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2010.
- 82. Moore JH, <u>Childs JD</u>, Middel CJ, Bennett A, Goffar SL. Army-baylor internship model: A reform of clinical education (Moore). Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2010.
- 83. <u>Childs JD</u>, George SZ, Wright A, Dugan JL, Benedict T, Bush J, Fortenberry A, Preston J, McQueen R, Teyhen DS (Childs). Effects of sit-up training versus core stabilization exercises on sit-up performance. Air Force Medical Service Research Symposium, Washington, DC, Aug 2010.
- 84. <u>Childs JD</u>, Teyhen DS, Casey P, McCoy-Singh K, Weston A, George SZ, Wright AC, Dugan JL (Childs). Effects of traditional sit-up training versus core stabilization exercises on short-term musculoskeletal injuries in UA Army Soldiers: A cluster randomized trial. Air Force Medical Service Research Symposium, Washington, DC, Aug 2010.
- 85. Koppenhaver S, <u>Childs JD</u>, Gill S, Teyhen DS, Fritz J, Hebert J, Kawchuk G, Parent EC (Koppenhaver). Association between changes in abdominal and lumbar multifidus muscle thickness and clinical improvement after spinal manipulation. Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2011.
- 86. Fritz J, Hebert J, Koppenhaver S, Teyhen DS, <u>Childs JD</u>, Kawchuk G (Fritz). Association between spinal stiffness and outcomes in subjects with low back pain receiving manipulation. Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2011.
- 87. Shaffer SW, Teyhen DS, Villena SL, Zosel KL, Greenberg MD, Lorenson CL, Yost CM, <u>Childs JD</u> (Shaffer SW). Lower extremity measures predictive of dynamic balance. Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2011.

- 88. Teyhen DS, Shaffer SW, Villena SL, Zosel KL, Greenberg MD, Lorenson CL, Rogers SM, <u>Childs JD</u> (Rogers). Lower extremity measures predictive of functional movement. Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2011.
- 89. Shaffer SW, Teyhen DS, Lorenson CL, Warren RL, Straseske CA, Wood SL, Dugan J, <u>Childs JD</u> (Lorenson). Y-Balance test: A reliability study involving novice raters. Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2011.
- 90. <u>Childs JD</u>, Wu S, Van Wyngaarden JJ, Dougherty B, Ladislas B, Helton G, Teyhen DS, George SZ (Childs). Predictors of web-based response rate in the prevention of low back pain the military trial. Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2011.

INVITED LECTURES:

- 1. "Teaching Techniques for Upper Body Weight Training Exercises", Southern Arizona Southwest Fitness Association's Southwest Fitness and Conditioning Clinic, Tucson, AZ, Mar 1999.
- 2. "Army Expert Field Medical Badge Course", U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium, Sheppard AFB, TX, Jul 1999.
- 3. Critical review of "Construct validity of Cyriax's selective tension examination: Association of end-feels with pain at the knee and shoulder", *JOSPT* 2000; 30(9):512-527, Doctoral Seminar, Department of Physical Therapy, University of Pittsburgh, Pittsburgh, PA, Oct 2000.
- 4. "The Potential Viability of Outsourcing Physical Therapy Services: A Retrospective Business Case Analysis", U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium, San Antonio, TX, Feb 2001.
- 5. "The Quality of Observational vs. Randomized Controlled Trials: The Potential for Bias and a Review of the Current Literature", Doctoral Oral Examination Seminar, Department of Physical Therapy, University of Pittsburgh, Pittsburgh, PA, Jun 2001.
- 6. "Brachial Plexopathy in an Athlete: A Case Report", Upper Extremity Examination and Treatment, Department of Physical Therapy, University of Pittsburgh, Pittsburgh, PA, Jul 2001.
- 7. "Techniques and Considerations for 3-D Motion Analysis", The Advanced Course: Anatomy, Pathomechanics, and Evaluation, Pedorthic Footwear Association, University of Pittsburgh, Pittsburgh, PA, Aug 2001.
- 8. "Power Analysis Considerations in Reliability Studies", Doctoral Seminar, Department of Physical Therapy, University of Pittsburgh, Pittsburgh, PA, Nov 2001.
- 9. "The Use of Manipulation in a Patient with an Ankle Sprain Not Responding to Conventional Management: A Case Report", Physical Therapy Grand Rounds, Department of Physical Therapy, University of Pittsburgh, Pittsburgh, PA, Feb 2002.
- 10. "Validation of a Clinical Decision Rule to Identify Patients Likely to Respond to Manipulation", Doctoral Dissertation Proposal Defense, Department Physical Therapy, University of Pittsburgh, Pittsburgh, PA, Mar 2002.
- 11. "The Use of Manipulation in a Patient with an Ankle Sprain Not Responding to Conventional Management: A Case Report", Lecture for the Lower Extremity Examination and Treatment course, Department of Physical Therapy, University of Pittsburgh, Pittsburgh, PA, Mar 2002.
- 12. "Spinal Manipulation", Air Force Physical Therapy Readiness Skills Verification Program, Physical Therapy Element, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX, Feb 2003.
- 13. "Advanced Physical Therapy Course on Evaluation and Treatment of the Spine", Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Apr 2003.
- 14. "Exercise for Low Back Pain", U.S. Army Post-professional Doctoral Program in Orthopaedic Manual Physical Therapy, Brooke Army Medical Center, San Antonio, TX, Aug 2003.
- 15. "Exercise for Neck Pain", U.S. Army Post-professional Doctoral Program in Orthopaedic Manual Physical Therapy, Brooke Army Medical Center, San Antonio, TX, Sep 2003.
- 16. "Screening for Serious Pathology, Manual Physical Therapy: Evidence and Evolution in the Management of Cervical Spine Disorders", Orthopaedic Section Programming, Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2004.
- 17. "Evaluating Harm and Perceived Harm, Manual Physical Therapy: Evidence and Evolution in the Management of Cervical Spine Disorders", Orthopaedic Section Programming, Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2004.

- 18. "Summary and Application of Direct Access Evidence", Primary Care Education Group Programming, Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2004.
- 19. "Practical Application of Direct Access Evidence and Outcomes", Primary Care Education Group Programming, Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2004.
- 20. "Which Patients with Low Back Benefit from Spinal Manipulation", Central District Meeting, Texas Physical Therapy Association, San Antonio, TX, Mar 2004.
- 21. "Spinal Manipulation for Low Back Pain: Becoming a Change Agent", Department of Physical Therapy, Arcadia University, Glenside, PA, May 2004.
- 22. "The Cervicothoracic Spine: An Evidence-based Approach to Manipulative Intervention", Kentucky Orthopedic Rehab Team, Louisville, KY, Jun 2004.
- 23. "Examination and Interventions for Patients with Cervical Spine Disorders", Preconference course, Advanced Clinical Practice Series, Annual Conference, American Physical Therapy Association, Chicago, IL, Jun 2004.
- 24. "Benefits of Funding from the Foundation for Physical Therapy: Am Emerging Research Agenda", Board of Trustees meeting, Annual Conference, American Physical Therapy Association, Chicago, IL, Jun 2004.
- 25. "Grant Funding from Professional Organizations: A How to Guide", U.S. Army Post-professional Doctoral Program in Orthopaedic Manual Physical Therapy, Brooke Army Medical Center, San Antonio, TX, Aug 2004.
- 26. "Evidence-based Examination and Interventions for Patients with Disorders of the Lumbar Spine, Pelvis, and Hip", Kentucky Orthopedic Rehab Team, Louisville, KY, Aug 2004.
- 27. "Examination, Diagnosis, and Interventions for Patients with Lumbar Instability: An Evidence-based Approach", Annual Conference, Texas Physical Therapy Association, Austin, TX, Oct 2004.
- 28. "The COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers", Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Oct 2004.
- 29. "Translating Evidence into Policy and Practice: An Example Using Spinal Manipulation", Rehabilitation Outcomes and Brain Rehabilitation Research Center's Monthly Research Seminar Series, Brooks Center, University of Florida, Gainesville, FL, Nov 2004.
- 30. "Clinical Prediction Rules", Orthopaedic Section Research Exchange, Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2005.
- 31. "Evidence-based Examination and Selected Interventions for Patients with Disorders of the Lumbopelvic Spine and Hip", Evidence in Motion, Therapy Services, University Medical Center, Tucson, AZ, Apr 2005.
- 32. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic and Hip Disorders", Department of Physical Therapy, University of Texas Health Science Center, San Antonio, TX, Apr 2005.
- 33. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic and Hip Disorders", Evidence in Motion, Center for Sports Medicine, Concord Rehabilitation Hospital, Concord, NH, Apr 2005.
- 34. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic and Hip Disorders", Evidence in Motion, Rehab Service/Health & Fitness, Thomas Hospital, Fairhope, AL, Apr 2005.
- 35. "Examination and Interventions for Patients with Cervical Spine Disorders", Advanced Clinical Practice Series, American Physical Therapy Association, Dartmouth Hitchcock Medical Center, Hanover, New Hampshire, Apr 2005.
- 36. "Evidence-based Examination and Selected Interventions for Patients with Lumbar Spine Disorders", Air Force OZO Course, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX, May 2005.
- 37. "Identification, Evaluation and Treatment of the Older Adult with Complicated Low Back Pain: What Are the Physical Considerations?", Annual Scientific Meeting, American Geriatrics Society, Orlando, Florida, May 2005.

- 38. "Defining Autonomy and Quality Care for Physical Therapist Practice", U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium, Sheppard AFB, Wichita Falls, TX, May 2005.
- 39. "Examination, Diagnosis, and Interventions for Patients With Lumbar Instability: An Evidence-based Approach", Preconference course, Advanced Clinical Practice Series, Annual Conference, American Physical Therapy Association, Boston, MA, Jun 2005.
- 40. "Evidence-based Examination and Selected Interventions for Patients with Extremity Disorders", Kentucky Orthopedic Rehab Team, Louisville, KY, Jun 2005.
- 41. "Evidence-based Practice and Quality Care in Physical Therapist Practice", Department of Physical Therapy and Division of Distance and Continuing Education, Western Carolina University, Cullowhee, NC, Aug 2005.
- 42. "Examination and Interventions for Patients with Cervical Spine Disorders", Advanced Clinical Practice Series, American Physical Therapy Association, Medical College of Ohio, Toledo, OH, Aug 2005.
- 43. "Examination and Interventions for Patients with Lumbar Spine Disorders", Advanced Clinical Practice Series, American Physical Therapy Association, George Washington University, Washington, DC, Aug 2005.
- 44. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evidence in Motion, University of Texas Health Science Center, San Antonio, TX, Sep 2005.
- 45. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evidence in Motion, Long Island University, Brooklyn, NY, Sep 2005.
- 46. "The COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers", Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Oct 2005.
- 47. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic and Hip Disorders", Evidence in Motion, Creighton University, Omaha, NE, Oct 2005.
- 48. "Examination, Diagnosis, and Interventions for Patients with Lumbar Instability: An Evidence-based Approach", Advanced Clinical Practice Series, American Physical Therapy Association, George Washington University, Washington, DC, Oct 2005.
- 49. "Distinguishing Your Practice: Marketing Evidence-based Practice", Annual Conference & Exposition of the Private Practice Section, Phoenix, AZ, Oct 2005.
- 50. "Integrating Evidence into Private Practice", Annual Conference & Exposition of the Private Practice Section, Phoenix, AZ, Oct 2005.
- 51. "Rehabilitative Imaging: Innovation to Improve Clinical Practice Integrating Evidence into Private Practice", Annual Conference & Exposition of the Private Practice Section, Phoenix, AZ, Oct 2005.
- 52. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evidence in Motion, Spooner Physical Therapy, Scottsdale, AZ, Oct 2005.
- 53. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Evidence in Motion, Summit Injury Management, Victoria, British Columbia, Nov 2005.
- 54. "The Race for Scientific Ownership of Manipulation", Foundation for Physical Therapy, Marquette University, Milwaukee, WI, Nov 2005.
- 55. "Management of the Client with Cervical Radiculopathy", Preview 2020, American Physical Therapy Association, Las Vegas, NV, Nov 2005.
- 56. "Management of the Client with Whiplash Associated Disorder", Preview 2020, American Physical Therapy Association, Las Vegas, NV, Nov 2005.
- 57. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Evidence in Motion, Drayer Physical Therapy, Harrisburg, PA, Jan 2006.
- 58. "Research Exchange: Clinical Prediction Rules", Orthopaedic Section, American Physical Therapy Association, Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2006.
- 59. "Evaluation and Management of Lumbar and Pelvic Dysfunction in the Performing Artist", Performing Arts Special Interest Group, Orthopaedic Section, American Physical Therapy

- Association, Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2006.
- 60. "Validation of a Clinical Prediction Rule to Identify Patients with Low Back Pain Likely to Benefit from Spinal Manipulation", Steven J. Rose Lecture, Orthopaedic Section, American Physical Therapy Association, Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2006.
- 61. "Integrating Evidence into Private Practice", Private Practice Section, Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2006.
- 62. "Evidence-based Examination and Selected Interventions for Patients with Lumbar Spine Disorders", Air Force OZO Course, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX, Feb 2006.
- 63. "Evidence-based Examination and Selected Interventions for Patients with Spine Disorders", Evidence in Motion, Montefiore Medical Center, New York, NY, Mar 2006.
- 64. "Teaching Manipulation: An Instructors's Workshop", Evidence in Motion, Bellin Health System, Green Bay, WI, Mar 2006.
- 65. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Evidence in Motion, Appleton Health System, Appleton, WI, Mar 2006.
- 66. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evidence in Motion, Therapy Services, University Medical Center, Tucson, AZ, Apr 2006.
- 67. "Examination and Interventions for Patients with Lumbar Instability", Advanced Clinical Practice Series, University of Alabama at Birmingham, Birmingham, AL, Apr 2006.
- 68. "Use of Clinical Prediction Rules and Ultrasound Imaging", Rehabilitative Ultrasound Imaging Symposium, Advances in Medical Practice Program, Office of the Surgeon General and US Army-Baylor University Doctoral Program in Physical Therapy, San Antonio, TX, May 2006.
- 69. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evidence in Motion, Center for Sports Medicine, Concord Rehabilitation Hospital, Concord, NH, May 2006.
- 70. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evidence in Motion, Rehab Service/Health & Fitness, Thomas Hospital, Fairhope, AL, Jun 2006.
- 71. "The Race for Ownership of Low Back Pain: Evidence Trumps Politics", Distinguished Lecture Series, Texas Woman's University, Houston, TX, Jul 2006.
- 72. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evidence in Motion, Department of Physical Therapy, University of Colorado Health Sciences Center, Denver, CO, Aug 2006.
- 73. "The COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers", Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Sep 2006.
- 74. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Department of Physical Therapy, University of Texas Health Science Center, San Antonio, TX, Sep 2006.
- 75. "What Insurances Know about EBM and How It Can Affect You", Annual Conference & Exposition of the Private Practice Section, Miami, FL, Oct 2006.
- 76. "Treatment-based Classification of Low Back Pain", Drayer National Conference Rehabilitation and Sports Medicine, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2006.
- 77. "Manual Physical Therapy Versus Stabilization for Low Back Pain", Drayer National Conference Rehabilitation and Sports Medicine, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2006.
- 78. "The Race for Ownership of Low Back Pain: Evidence Trumps Politics", National Student Conclave, American Physical Therapy Association, Dallas, TX, Oct 2006.
- 79. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evergreen Physical Therapy, Reed City, MI, Nov 2006.
- 80. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Colorado Sports and Spine Centers, Colorado Springs, CO, Dec 2006.

- 81. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", University of Pittsburgh, Pittsburgh, PA, Jan 2007.
- 82. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Park Nicollet, St. Louis Park, MN, Jan 2007.
- 83. "Integrating Evidence into Private Practice", Combined Sections Meeting, American Physical Therapy Association, Boston, MA, Feb 2007.
- 84. "Research Information Exchange Center", Combined Sections Meeting, American Physical Therapy Association, Boston, MA, Feb 2007.
- 85. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Annual Conference, Florida Physical Therapy Association, Orlando, FL, Mar 2007.
- 86. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Alamance Regional Medical Center, Burlington, NC, Mar 2007.
- 87. "Professional Issues", Air Force OZO Course, Wilford Hall Medical Center, San Antonio, TX, Mar 2007.
- 88. "The Race for Ownership of Low Back Pain: Evidence Trumps Politics", Department of Physical Therapy, West Virginia University, Morgantown, WV, Apr 2007.
- 89. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", National Yang-Ming University, Taipei, Taiwan, May 2007.
- 90. "Workshop on Manual Therapy and Exercise Approach for Spinal Disorders", National Yang-Ming University, Taipei, Taiwan, May 2007.
- 91. "Manual Therapy Management of the Lumbopelvic Spine", Annual Conference, American Physical Therapy Association, Denver, CO, Jun 2007.
- 92. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Texas Physical Therapy Specialists, San Antonio, TX, Jul 2007.
- 93. Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Orthopedics Plus Physical Therapy, Russellville, KY, Aug 2007.
- 94. "Physical Therapists and the 21st Century Health Care Food Chain", Charles Magistro Lecture, Arcadia University, Glenside, PA, Sep 2007.
- 95. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Alamance Regional Medical Center, Burlington, NC, Sep 2007.
- 96. "The COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers", Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Sep 2007.
- 97. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", ProRehab, Evansville, IN, Sep 2007.
- 98. "The Race for Ownership of Low Back Pain: Leaving No Stone Unturned", University of Iowa, Iowa City, IA, Oct 2007.
- 99. "Clinical Algorithm for Selecting Manual Therapy Techniques", Drayer Physical Therapy Institute National Conference, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2007.
- 100. Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", San Luis Sports Therapy, San Luis Obispo, CA, Nov 2007.
- 101. "Physical Therapists and the 21st Century Health Care Food Chain: Direct Employer Contracting is the Way Forward", Annual Conference & Exposition of the Private Practice Section, San Diego, CA, Nov 2007.
- 102. "Evidence-based Practice in Your Clinic", Proaxis Therapy, Greenville, SC, Nov 2007.
- 103. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Proaxis Therapy, Greenville, SC, Nov 2007.
- 104. "Low Back Pain in Athletes: A Review", Swiss Sports Physical Therapy Association, Bern, Switzerland, Nov 2007.
- 105. "Spinal manipulation In Patients with Low Back Pain: An Evidence-based Update", Swiss Sports Physical Therapy Association, Bern, Switzerland, Nov 2007.
- 106. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Park Nicollet, St. Louis Park, MN, Jan 2008.

- 107. "Manual Physical Therapy and the Current State of Musculoskeletal Care in the US: Feast or Famine", Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
- 108. "Classification of Patients with Neck Pain: The Next Frontier", Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
- 109. "Research Information Exchange Center", Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
- 110. "The Eugene Michels Forum: Contrasting Approaches to Physical Therapy Diagnosis: Examples from Pediatrics and Musculoskeletal Physical Therapy", Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
- 111. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Physical Therapy South, Lafayette, LA, Feb 2008.
- 112. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Providence Health, Portland, OR, Mar 2008.
- 113. "Professional Issues", Air Force OZO Course, Wilford Hall Medical Center, San Antonio, TX, Mar 2008.
- 114. "Critical Review of Literature", Colonel Mary Lipscomb Hamrick Research Course, San Antonio, TX, Apr 2008
- 115. "Grant Funding in the DoD", Colonel Mary Lipscomb Hamrick Research Course, San Antonio, TX, Apr 2008
- 116. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", St. Joseph's Medical Center, Bloomington, IL, Apr 2008.
- 117. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Mountain River Physical Therapy, Parkersburg, WV, Jun 2008.
- 118. "Physical Therapists and the 21st Century Health Care Food Chain: Direct Employer Contracting is the Way Forward", Annual Conference, American Physical Therapy Association, San Antonio, TX, Jun 2008.
- 119. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Benchmark Physical Therapy, Atlanta, GA, Aug 2008.
- 120. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", New Mexico State Chapter of the American Physical Therapy Association, Albuquerque, NM, Sep 2008.
- 121. "Physical Therapists and the 21st Century Health Care Food Chain", University of Mary, Bismarck, ND, Sep 2008.
- 122. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", North Dakota State Chapter of the American Physical Therapy Association, Bismarck, ND, Sep 2008.
- 123. "Evidence-based Practice in Military Physical Therapy", COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers, Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Oct 2008.
- 124. "Lumbopelvic Evidence-Based Practice: Review & Update", COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers, Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Oct 2008.
- 125. "Cervical Spine Manipulation: Harm & Risk Discussion", COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers, Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Oct 2008.
- 126. "Clinical Algorithm for Selecting Manual Therapy Techniques", Drayer Physical Therapy Institute National Conference, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2008.
- 127. "Manual Therapy Techniques for the Lumbar Spine", Drayer Physical Therapy Institute National Conference, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2008.
- 128. "Pathomechanics of the Cervical Spine", Drayer Physical Therapy Institute National Conference, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2008.
- 129. "Manual Therapy Techniques for the Cervical and Thoracic Spine", Drayer Physical Therapy Institute National Conference, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2008.
- 130. "Building EBP Systems in Private Practice", Annual Conference & Exposition of the Private Practice Section, Orlando, FL, Nov 2008.

- 131. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", i dioscuri, Associazione Interprofessionale e Tecnico Scientifica di Fisioterapia, Siena, Italy, Nov 2008.
- 132. "Actualizing Physical Therapists as Direct Access Practitioners", Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
- 133. "Use of the International Classification of functioning to Develop Evidence-based Practice Guidelines for Common Musculoskeletal Conditions: A Progress Update", Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
- 134. "Orthopaedic Section Research Agenda: Public Hearing", Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
- 135. "Research Information Exchange", Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
- 136. "Clinical Decision-Making for Patients with Low Back and Neck Pain", Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
- 137. "Officer Education/Research Update", U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium, Las Vegas, NV, Feb 2009.
- 138. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Physical Therapy South, Lafayette, LA, Mar 2009.
- 139. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", PRO-Active Physical Therapy, Syracuse, NY, Mar 2009.
- 140. "Evidence-Based Management of Low Back Pain: The Role of Conservative Therapy", Optum Health Disease Management Trends and Wellness Initiatives, Scottsdale, Arizona, Mar 2009.
- 141. "Physical Therapists Rescue General Motors from the Brink of Bankruptcy", Ohio State University, Columbus, OH, Apr 2009.
- 142. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Ohio State University, Columbus, OH, Apr 2009.
- 143. "Professional Issues", Air Force OZO Course, Wilford Hall Medical Center, San Antonio, TX, Apr 2009.
- 144. "Use of Technology in Evidence-based Practice", Air Force OZO Course, Wilford Hall Medical Center, San Antonio, TX, Apr 2009.
- 145. "Using Outcome Measures in Clinical Practice", Air Force OZO Course, Wilford Hall Medical Center, San Antonio, TX, Apr 2009.
- 146. "Publish or Perish", Colonel Mary Lipscomb Hamrick Research Course, San Antonio, TX, Apr 2009.
- 147. "Physical Therapists Rescue General Motors from the Brink of Bankruptcy", University of Texas Health Sciences Center, San Antonio, TX, Apr 2009.
- 148. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Phoenix Rehab, Mt. Pleasanton, PA, Aug 2009.
- 149. "Classification of Patients with Neck Pain: The Next Frontier", Annual Conference of the California Physical Therapy Association, Pasadena, CA, Oct 2009.
- 150. "The Race for Ownership of Low Back Pain", Kaiser Permanente Los Angeles Orthopaedic Manual Therapy Fellowship, Los Angeles, CA, Oct 2009.
- 151. "Evidence-based Practice in Military Physical Therapy", COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers, Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Oct 2009.
- 152. "Lumbopelvic Evidence-Based Practice: Review & Update", COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers, Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Oct 2009.
- 153. "Cervical Spine Manipulation: Harm & Risk Discussion", COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers, Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Oct 2009.
- 154. "The Customer Experience: Drive Your Practice Towards Success", Annual Conference & Exposition of the Private Practice Section, Colorado Springs, CO, Nov 2009.
- 155. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", i dioscuri, Associazione Interprofessionale e Tecnico Scientifica di Fisioterapia, Siena, Italy, Nov 2009.

- 156. "Officer Education/Research Update", U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium, San Diego, CA, Feb 2010.
- 157. "Research Information Exchange", Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2010.
- 158. "Scientific Advisory Panel: Low Back Pain", U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium, San Diego, CA, Feb 2010.
- 159. "Evidence in Motion Open Line Night", Evidence in Motion, San Antonio, TX, Mar 2010.
- 160. "Physical Therapists Rescue General Motors from the Brink of Bankruptcy", Arizona Physical Therapy Association, Tucson, AZ, Apr 2010.
- 161. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine & Hip Disorders", Carondolet Health System, Tucson, AZ, Apr 2010.
- 162. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", College of Mt. St. Joseph Health Science Center, Apr 2010.
- 163. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine & Hip Disorders", Alabama Chapter of the American Physical Therapy Association Spring Conference, Organge Beach, AL, May 2010.
- 164. "Spinal Manipulation Update: Do We Have Too Many Choices???", Manipalooza, Evidence in Motion, Denver, CO, May 2010.
- 165. "Low Back Pain Update: Evolution of the Low Back Pain Classification System", Manipalooza, Evidence in Motion, Denver, CO, May 2010.
- 166. "Implications of Referral to Physical Therapy or Chiropractic Care in U.S. Employer Sponsored Health Plans", San Antonio Military Physical Therapy Research Community, San Antonio, TX, Jul 2010.
- 167. "Evidence-based Examination and Selected Interventions for Patients with Cervicothoracic Disorders", Carondolet Health System, Tucson, AZ, Jul 2010.
- 168. "Low Back Pain Management", University of Mary, Bismarck, ND, Sep 2010.
- 169. "Evidence-based Examination and Selected Interventions for Patients with Cervicothoracic Disorders", North Dakota State Chapter of the American Physical Therapy Association, Bismarck, ND, Sep 2010.
- 170. "Creating a Healthy Practice Clinical Excellence Begins with a World Class Customer Experience", American Academy of Orthopaedic and Manual Physical Therapists, San Antonio, TX, Oct 2010.
- 171. "Anatomical and Biomechanical Review of Low Back Structures", 2010 Annual Musculoskeletal Conference: The Dilemma of Low Back Pain, Benchmark Physical Therapy, Braselton, GA, Oct 2010.
- 172. "Advanced Low Back Evaluation Lab", 2010 Annual Musculoskeletal Conference: The Dilemma of Low Back Pain, Benchmark Physical Therapy, Braselton, GA, Oct 2010.
- 173. "Evidence Based Treatment Approaches for Low Back Pain", 2010 Annual Musculoskeletal Conference: The Dilemma of Low Back Pain, Benchmark Physical Therapy, Braselton, GA, Oct 2010.
- 174. "Quality Improvement in Physical Therapy", COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers, Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Oct 2010.
- 175. "Lumbopelvic Evidence-Based Practice: Review & Update", COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers, Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Oct 2010.
- 176. "Regional Interdependence: Lumbar Spine & Lower Member", COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers, Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Oct 2010.
- 177. "Cervical Spine Manipulation: Harm & Risk Discussion", COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers, Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Oct 2010.
- 178. "Creating a Healthy Practice Clinical Excellence Begins with a World Class Customer Experience", Annual Conference & Exposition of the Private Practice Section, Washington, DC, Nov 2010.

"Evidence-Based Management of Low Back Pain: The Role of Conservative Therapy", Society of Air Force Physician Assistants, San Antonio, TX, Nov 2010.

GRANT & FUNDING ACTIVITY (ONGOING, PENDING, & COMPLETED):

Ongoing Research Support

1R01HS019624-01 (G.K. Fitzgerald, PI)

12/01/10-11/30/14

2.4 calendar

Agency for Healthcare Research and Quality

\$1,451,723.00 (total directs)

Enhancing the Effectiveness of Physical Therapy for People with Knee Osteoarthritis

The specific aim of this study is to compare the effects of delivering exercise therapy or exercise therapy supplemented with manual therapy techniques using periodic "booster sessions" versus not using "booster sessions" in reducing pain and improving physical function at one and two year follow-up periods.

J. Childs, PI

08/01/10-07/31/11

.6 calendar

Private Practice and Orthopaedic Sections of the

\$35,000 (total directs)

American Physical Therapy Association and American

Academy of Orthopaedic and Manual Physical Therapists

Implications of Referral to Physical Therapy or Chiropractic Care on Costs of Care among Third Party Payers

The specific aim of this study is to examine the cost implications of the decision to refer patients with a new episode of LBP from primary care providers to physical therapy or chiropractic care.

W81XWH-09-C-0008 (J. Hu. PI)

02/15/10-02/14/12

.6 calendar

Small Business Innovation Research (Phase II)

\$36,648 (total directs)

Rehabilitation Rootic -RehaBot

The specific aim of this project is to develop an integrated reconfigurable haptic feedback robotic system that allows the implementation of multiple training procedures for upper and lower limbs.

J.M. Fritz, PI

07/01/09-12/31/11

1.2 calendar

Empi, Inc.

\$354,758 (total directs)

The Value of Adding Traction to Standard Treatments Received by Patients with Low Back or Neck Pain Receiving Physical Therapy: Two Randomized Clinical Trials Validating Clinical Prediction Criteria

The specific aim of this study is to determine the validity of prediction criteria to identify patients highly likely to benefit from the addition of traction to a standard physical therapy intervention in patients with low back and neck pain.

R21 AT004221-01A1 (J.M. Fritz, PI)

01/01/09-12/31/11

.6 calendar

NIH/NCCAM

\$295,115 (total directs)

Biomechanical and Neurophysiological Effects of Spinal Manipulative Therapy

The specific aim of this study is to compare neurophysiologic and biomechanical characteristics between patients who are therapeutic responders or non-responders to spinal manipulation therapy.

PR054098 (S.Z. George, PI)

06/01/06 - 05/30/11

3.0 calendar

DoD/Peer Reviewed Medical Research Program

\$1,008,426 (total directs)

Prevention of Low Back Pain in the Military: A Randomized Clinical Trial

The specific aim of this project is to determine if novel educational and physical training programs are effective at reducing chronic disability from low back pain in active duty Soldiers.

Pending Research Support

OR100021 (R.A. Cooper, PI) DoD/Peer Reviewed Orthopaedic 01/01/11-12/31/13

2.4 calendar

Rehabilitation Consortium

\$19,500,000 (total directs – 5 years)

Targeted Physical and Psychosocial Interventions for Spine Pain

The specific aim of this study is to investigate the effects of a novel biopsychosocial intervention among patients with low back pain and to identify the subgroup of patients who benefit from combined physical and psychosocial interventions based on Neuropeptide Y, a neurotransmitter involved in the stress response to pain and with the potential to predict patients likely to have a maladaptive response to pain.

Texas State University Faculty Funds 10/01/11-09/30/12 Effectiveness and Costs of Managing Patients \$35,000 (total directs)

with Low Back Pain Using a Value-based Payment Model

The specific aim of this study is to compare clinical outcomes and costs related to the physical therapy episode of care, and compare subsequent low back pain-related healthcare utilization and costs for patients with a new episode of low back pain managed with the value-based model compared with management using a traditional fee-for-service payment model.

Grants In Preparation

R01 (D.S. Teyhen, PI) 10/01/11-09/30/15 2.4 calendar

Deployment Related Medical Research Program \$1,655,876 (total directs)

Efficacy of Supervised Neuromuscular Training to Improve Risk Factors Associated With Lower Extremity Injuries in US Army Soldiers: A Randomized Trial

The specific aim of this study is to investigate the efficacy of a supervised NMSTP to change neuromuscular and biomechanical risk factors previously identified with the development of lower extremity overuse injuries among active duty military service members.

R01 (J. Hu, PI) 10/01/11-09/30/15 .6 calendar

Deployment Related Medical Research Program \$1,617,420 (total directs)

Advanced Robotic Technology Enhancing Rehabilitation in Soldiers and Civilians with Neurological and Musculoskeletal Injuries

The specific aim of this project is to develop an integrated reconfigurable haptic feedback robotic system that allows the implementation of multiple training procedures for upper and lower limbs.

R01 (A.D. Delitto, PI) 10/01/11-09/30/15 1.2 calendar

NIH/NIAMS ~\$6 million (total directs)

Overcoming Obstacles to Recovery: A Randomized Trial of a Cognitive Behavioral Intervention For Primary Care Patients with Low Back Pain

The specific aim of this study is to compare the cost-effectiveness between an immediate versus a stepped care approach in the management of patients with acute low back pain in the primary care setting.

R01 (S.Z. George, PI) 10/01/11-09/30/15 2.4 calendar

Peer Reviewed Orthopaedic Research Program \$1,500,000 (total directs)

Effects of Psychosocial Education in the Secondary Prevention of Activity Limiting Musculoskeletal Pain in Soldiers

The specific aim of this study is to investigate if a psychosocial education program (PSEP) is of benefit to active duty service members who have musculoskeletal activity restrictions during basic training. We hypothesize that after receiving the PSEP in conjunction with standard treatment, Soldiers will have lower psychological distress, better pain coping skills, and report lower pain intensity.

Completed Research Support

Small Business Innovation Research (10/01/08-09/30/09) (\$350,000)

An integrated physical therapy /rehabilitation robotic system for military healthcare enhancement (RehaBot Project)

Award #: A082-120-1879, Role: Co-investigator

The specific aim of this study is to create a reconfigurable haptic feedback non-treadmill rehabilitation robotic system for upper and lower limb rehabilitation, develop progressive rehabilitation training procedures for retraining tasks involving upper and lower limbs, create a

virtual reality environment for reconfigurable rehab training, and develop a mechanism for telepresence rehab training consultation and remote supervision

Center of Excellence for Medical Multimedia (10/01/08-9/30/09) (\$350,000)

Development of a biopsychosocial multimedia educational program for active duty service members with low back pain

Award #: n/a, Role: Co-investigator

The specific aim of this project is to develop an innovative multimedia educational program for patients with low back pain based on biopsychosocial principles that communicate positive information and advice. Successful implementation of the proposed project will offer healthcare practitioners in the military health system the medium to provide evidence-based information and advice that will enhance recovery and help reduce the enormous disability and costs associated with the management of LBP.

Clinical Research Grant Program (01/01/07 – 12/31/08) (\$40,000)

Foundation for Physical Therapy

Comparison of the effectiveness of three manual physical therapy techniques in a subgroup of patients with low back pain who satisfy a clinical prediction rule: A randomized clinical trial Award #: n/a, Role: Co-investigator

The purpose of this study is to investigate the effectiveness of three different manual physical therapy techniques in a subgroup of patient with low back pain that satisfy the lumbar spine manipulation prediction rule.

Orthopaedic Section Clinical Research Grant Program (04/01/06 – 03/31/08) (\$7,500)

Development of a clinical prediction rule to identify patients status post inversion ankle sprain likely to benefit from manual physical therapy interventions and exercise

Award #: n/a, Role: Co-investigator

The specific aim of the study is to develop a clinical prediction rule to identify patients status post inversion ankle sprain likely to benefit from manual physical therapy interventions and exercise.

American Academy of Orthopaedic and Manual Physical Therapists Clinical Research Grant Program (01/01/06 – 12/31/08) (\$5,000)

Comparison of the effectiveness of three manual physical therapy techniques in a subgroup of patients with low back pain who satisfy a clinical prediction rule: A randomized clinical trial Award #: n/a, Role: Co-investigator

The purpose of this study is to investigate the effectiveness of three different manual physical therapy techniques in a subgroup of patient with low back pain that satisfy the lumbar spine manipulation prediction rule.

American Academy of Orthopaedic and Manual Physical Therapists Clinical Research Grant Program (01/01/06 – 12/31/06) (\$5,000)

Thoracic spine mobilization versus manipulation in patients with mechanical neck pain: A randomized clinical trial

Award #: n/a, Role: Co-investigator

The specific aim of this study is to determine the effectiveness of thoracic spine manipulation versus mobilization in patients with mechanical neck pain.

Telemedicine and Advanced Technology Research Center Advances in Medical Practice (10/01/05 – 09/30/06) (\$900,000)

Rehabilitative ultrasound imaging

Award #: n/a, Role: PI (Co-PI with Teyhen DS)

The specific aim of this project is to reduce recurrence of low back pain by using ultrasound imaging and biofeedback to enhance the care of patients with low back pain.

Orthopaedic Section Clinical Research Grant Program (04/01/04 – 03/31/05) (\$7,500)

Development of a clinical prediction rule to identify patients with neck pain likely to benefit from thoracic spine manipulation

Award #: n/a, Role: PI

The specific aim of the study is to identify factors from the history and physical examination that predict successful outcome from thoracic spine manipulation in patients with neck pain.

American Academy of Orthopaedic and Manual Physical Therapists Clinical Research Grant Program (01/01/04 – 12/31/04) (\$5,000)

The effectiveness of thoracic spine manipulation on success rate, disability, function, and impairments in patients with neck pain: A randomized clinical trial

Award #: n/a, Role: Co-investigator

The specific aim of this study is to determine if the addition of thoracic spine manipulation to a standard physical therapy regimen for patients with neck pain improves the rate of successful outcome and decreases absence from work.

Foundation for Physical Therapy Research Grant (01/01/04 - 12/31/04) (\$40,000) The effectiveness of an extension-oriented intervention in patients with low back pain: A randomized clinical trial

Award #: n/a, Role: PI

The specific aim of this study is to determine the effectiveness of an extension-oriented intervention in a subgroup of patients with low back hypothesized to benefit from this treatment approach.

U.S. Army Center for Health Promotion and Preventive Medicine Health Promotion and Prevention Initiatives Program (10/1/03 – 09/30/04) (\$35,000)

Screening soldiers at risk for chronic, disabling episodes of low back pain

Award #: n/a, Role: PI (Co-PI with Teyhen DS)

The specific aim of this project is to identify soldiers at risk for chronic, disabling low back pain based on assessment of deep abdominal and low back muscle function using real-time ultrasound imaging.

Orthopaedic Section Clinical Research Grant Program (04/1/03 - 03/31/04) (\$7500) Validation of a clinical prediction rule for identifying patients likely to benefit from a lumbar stabilization program

Award #: n/a, Role: Co-investigator (PI: Hicks GE)

The specific aim of this study is to validate a clinical prediction rule to identify patients with low back pain likely to benefit from a lumbar stabilization exercise intervention.

Sports Physical Therapy Section Small Grant Program (01/1/03 - 12/31/03) (\$1500) Competency in musculoskeletal medicine: physical therapist vs. physician performance Award #: n/a. Role: PI

The specific aim of this study is to describe competency in musculoskeletal medicine among physical therapists on an identical examination previously completed by physicians.

Orthopaedic Section Clinical Research Grant Program (01/1/03-12/31/03) (\$7500) and Wilford Hall Medical Center Commander Intramural Research Funding Program (01/01/03 – 12/31/03) (\$42,591.75) and

Pennsylvania Physical Therapy Association Research Fund Award (01/01/03 – 12/31/03) (\$1000) Association between impairments and function in response to physical therapy in individuals with patellofemoral pain syndrome

Award #: n/a, Role: Co-investigator (PI: Piva SR)

The specific aim of this study is to identify the impairments that are associated with physical function in patients with Patellofemoral Pain Syndrome prior to and in response to physical therapy treatment.

Foundation for Physical Therapy Research Grant Program (01/1/02 - 12/31/02) (\$40,000) and

Wilford Hall Medical Center Commander Intramural Research Funding Program (01/01/02) (\$40,000)

Validation of a clinical prediction rule for identifying patients likely to respond to a sacroiliac region manipulation technique: A randomized clinical trial

Award #: n/a, Role: Co-investigator (PI: Fritz JM)

The specific aim of this study is to determine the validity of a previously-developed clinical prediction rule for identifying patients with low back pain likely to respond to a specific manipulation technique.

Sports Physical Therapy Section Small Grant Program (01/1/02 - 12/31/02) (\$1500)

The relationship of strength and flexibility of soft tissues around the hip to the presence or absence of patellofemoral pain syndrome

Award #: n/a, Role: PI

The specific aim of this study is to determine whether patients with Patellofemoral Pain Syndrome have less hip external rotation and abduction strength compared to age- and gender-matched control subjects.

Orthopaedic Section Clinical Research Grant Program (04/1/01 - 03/31/02) (\$10,000) and Wilford Hall Medical Center Commander Intramural Research Funding Program (4/1/01 - 3/31/02) (\$10,000)

Effectiveness of manual physical therapy and exercise for lumbar spinal stenosis: A prospective, randomized, controlled clinical trial

Award #: n/a, Role: Co-investigator (PI: Whitman JM)

The specific aim of this study is to determine the effectiveness of manual physical therapy and aerobic exercise in patients with lumbar spinal stenosis.

Orthopaedic Section Clinical Research Grant Program (04/1/01 - 03/31/02) (\$10,000) Gait adaptations in individuals with knee osteoarthritis

Award #: n/a, Role: PI

The specific aim of this study is to determine if individuals with knee OA have different gait adaptations than age- and gender-matched controls and if these changes are associated with physical performance and self-report measures of pain and function.

TEACHING RESPONSIBILITIES:

2000	Teaching Assistant, Manual Therapy (Extremities and Spine), Department of Physical Therapy, University of Pittsburgh
2000	Teaching Assistant, Musculoskeletal Causes, Analysis, and Interventions in Movement Dysfunction I (Lower Extremity), Department of Physical Therapy, University of Pittsburgh
2000-2002	Teaching Assistant, Evidenced-Based Practice I, Department of Physical Therapy, University of Pittsburgh
2001-2002	Teaching Assistant, Evidenced-Based Practice II, Department of Physical Therapy, University of Pittsburgh, Spring
2001-2002	Teaching Assistant, Evidenced-Based Practice III, Department of Physical Therapy, University of Pittsburgh, Summer
2002	Instructor/Lecturer, Functional Anatomy of the Wrist and Hand, Department of Physical Therapy, University of Pittsburgh
2002	Instructor/Lecturer, Doctoral Seminar, Department of Physical Therapy, University of Pittsburgh
2003	Guest Lecturer/Lab Instructor, U.S. Army Advanced Physical Therapy Course on Evaluation and Treatment of the Spine
2003-2005	Guest Lecturer and Research Advisor, U.S. Army-Baylor University Doctoral Program in Physical Therapy
2003-2004	Guest Lecturer, U.S. Army Post-professional Doctoral Program in Orthopaedic Manual Physical Therapy

Faculty, The COL Douglas A. Kersey Advanced Clinical and Operational Practice 2005-Course for Physical Therapy Officers 2005-Faculty, U.S. Air Force Physical Therapy OZO Course Faculty, U.S. Army-Baylor University Doctoral Program in Physical Therapy. 2005-(Research Design, Statistics, Evidence-based Practice I-IV) Faculty, U.S. Army Post-professional Doctoral Program in Orthopaedic Manual 2005-Physical Therapy, (Research Design, Statistics) 2003-Faculty, Evidence in Motion 2008-Faculty, Colonel Mary Lipscomb Hamrick Research Course

MILITARY EDUCATION & TRAINING:

- 1. Basic Cadet Training, U.S. Air Force Academy, Colorado Springs, CO, Aug 1990.
- 2. Survival, Evasion, Resistance, and Escape (SERE), U.S. Air Force Academy, Colorado Springs, CO, Jun 1991.
- 3. Water Survival, U.S. Air Force Academy, Colorado Springs, CO, Jun 1991.
- 4. Basic Free Fall Parachuting, U.S. Air Force Academy, Colorado Springs, CO, Jun 1991.
- 5. "Combat Casualty Care Course (C4)", Camp Bullis, San Antonio, TX, Jan 1997.
- 6. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", Sheppard AFB, Wichita Falls, TX (37.5 contact hours), Apr 1997.
- Expert Field Medical Badge Course, Ft Carson, Colorado Springs, CO, Jun 1997.
- 8. Distinguished Graduate and awarded the Expert Field Medical Badge (EFMB), AZ Army National Guard, Phoenix, AZ, Apr 1998 (Invited to be an annual instructor and member of the Test Committee at future EFMB courses).
- 9. Squadron Officer School, Dec 1998.
- 10. Instructor/Evaluator, Expert Field Medical Badge Course (EFMB), Ellsworth AFB, SD, Jun 1999.
- 11. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", Sheppard AFB, Wichita Falls, TX (40 contact hours), Jul 1999.
- 12. Instructor/Evaluator, Expert Field Medical Badge Course (EFMB), Camp Shelby, MS, Nov 1999.
- 13. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", Wilford Hall Medical Center, San Antonio, TX (72 contact hours), Mar 2000.
- 14. "Aerospace Physiological Training", Columbus AFB Physiological Training Unit, Columbus AFB, Columbus, MS, Jun 2000.
- 15. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", San Antonio, TX (24 contact hours), Feb 2001.
- 16. "Medical Unit Readiness Training", Camp Risington, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX, Oct 2003.
- 17. Combat Arms Training", Lackland AFB, San Antonio, TX, Oct 2003.
- 18. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", San Antonio, TX (23.25 contact hours), May 2005.
- 19. Air Command and Staff College, Nov 2006.

COMMUNITY INVOLVMENT:

1992-1994	Big Brother, Big Brothers Big Sisters of America, Pikes Peak Chapter, Colorado Springs, CO
1999-2000	Teacher, Men's weekly Bible study, Columbus Air Force Base
2002-2004	Game Director, Awana Clubs Program, Northeast Bible Church, San Antonio, TX
2004-2005	Team Assistant Coach, Soccer Association for Youth of San Antonio, San Antonio, TX
2005-2007	Sunday School Teacher, 4-year-old and 3 rd grade class, Northeast Bible Church, San
	Antonio, TX
2004-2008	Member, Praise and Worship Team, Northeast Bible Church, San Antonio, TX
2007-2008	Chair, BRIDGE Team, Capital Giving Campaign, Northeast Bible Church, San Antonio, TX
1990-	Member, Youth Leadership Forum, Birmingham, Alabama (program to develop leadership
	potential in youth)
1990-	Active church member (various local churches based on current place of residence)

- urch member (various local churches based on current place of residence)
- 1994-Member, Baptist Student Union Alumni Association

1995-	Member, <u>Aircraft Owner's and Pilots Association</u> (Private Pilot – 120 flying hours).
2007-	Member (#0C0705281307), Space Adventures' Spaceflight Club
2007-	Member, San Antonio Petroleum Club, San Antonio, TX
2007-	Member, <u>U.S. Air Force Academy Sabre Society</u> , Colorado Springs, CO
2007-	Volunteer, Meals on Wheels of San Antonio, Christian Senior Services, San Antonio, TX
2007-	Pine Cove Ambassador, a community faith outreach program for Pine Cove Christian
	Camps
2008-	Sunday School Teacher, 4-year-old class, <u>Believer's Fellowship</u> , San Antonio, TX
2008-	Member, <u>University of Pittsburgh Chancellor's Circle</u>
2009-	Member, <u>University of Texas Longhorn Foundation</u> , Austin, TX

CONTINUING PROFESSIONAL EDUCATION (OTHER THAN GRADUATE SCHOOL COURSEWORK):

1995

1. "Basic Life Support for the Healthcare Provider", American Heart Association, San Antonio, TX, Jan 1995.

1996

- 2. "Stroke Rehabilitation: Mental Processes and Motor Control", Dogwood Institute, Birmingham, AL, Mar 1996 (12 contact hours).
- 3. "An Introduction to Foot Biomechanics for the Adult with CNS Dysfunction", Beverly Cusick, San Antonio, TX, May 1996 (8 contact hours).
- 4. "Defensible Documentation", Annette Iglarsh, San Antonio, TX, Apr 1996 (8 contact hours).
- 5. "Options in Action: A Wound and Skin Management Seminar", Baxter Healthcare, Tucson, AZ, Sep 1996 (4 contact hours).
- 6. "Mechanical Diagnosis and Therapy of the Lumbar Spine", Scott Herbowy, PT, Dip. MDT, McKenzie Institute, San Diego, CA, Oct 1996 (35 contact hours).
- 7. "Total Quality Management for the Healthcare Provider", Columbus AFB, AZ, Oct 1996 (14 contact hours).

1997

- 8. "Evaluation and Management of Foot and Ankle Dysfunction", Kirksville College of Osteopathic Medicine in cooperation with the U.S. Public Health Service, Phoenix, AZ, Mar 1997 (26 contact hours).
- 9. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", Sheppard AFB, Wichita Falls, TX, Apr 1997 (37.5 contact hours).
- 10. "Customer Care University", Columbus AFB, Tucson, AZ, Aug 1997
- 11. "Principles of Manual Medicine", Philip E. Greenman, DO, FAAO, Michigan State University College of Osteopathic Medicine, Tucson, AZ, Oct 1997 (40 contact hours).
- 12. "Clinical Practice Standards: Ethical and Legal Issues", Tucson VA Medical Center, Tucson, AZ, Nov 1997 (6.6 contact hours).

1998

- 13. "Muscle Energy: Level I", Philip E. Greenman, DO, FAAO, Michigan State University College of Osteopathic Medicine, Tucson, AZ, Mar 1998 (40 contact hours).
- 14. "Women's Health: What Every Healthcare Provider Should Know", Elizabeth Noble New Life Images O.B.-GYN courses, Los Angeles, CA, Aug 1998 (13 contact hours).
- 15. "Combined Medial Collateral Ligament/Anterior Cruciate Ligament Injuries: Recognition and Treatment", Healthsouth, Tucson, AZ, Jul 1997 (1 contact hour)
- 16. "Leadership Training for the Customer Service Revolution", AMR Training Group, Tucson, AZ, Sep 1998 (16 contact hours).
- 17. "Basic Life Support for the Healthcare Provider", American Heart Association, Tucson, AZ, Oct 1998
- 18. "Essentials of Personal Training Symposium", National Strength and Conditioning Association, Tucson, AZ, Oct 1998 (13.5 contact hours).

1999

19. "S1 – Introduction to Spinal Evaluation and Manipulation", Larry Yack, MS, PT, University of St. Augine Institute of Physical Therapy, Tucson, AZ, Feb 1999 (40 contact hours).

- 20. "Southwest Fitness and Conditioning Clinic", Southern Arizona Fitness Association, Tucson, AZ, Mar 1999 (8 contact hours).
- 21. "Exercise Prescription as an Adjunct to Manual Therapy", Mark Bookhout, MS, PT, Andrews AFB, MD, Apr 1999 (17 contact hours).
- 22. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", Sheppard AFB, Wichita Falls, TX, Jul 1999 (40 contact hours).
- 23. "Air Force 'Skunkworks' Customer Satisfaction Summit", Air Force Surgeon General's Task Force, Dallas, TX, Aug 1999
- 24. "Differential Diagnosis and Manual Therapy of the Thoracic Spine and Ribs", Valerie Phelps, PT, International Academy of Orthopedic Medicine, Tucson, AZ, Sep 1999 (24 contact hours).
- 25. "Low Back Pain Evaluation and Management for Primary Care Physicians", Steven M. Theiss, MD, Division of Orthopaedic Surgery, University of Alabama at Birmingham, Nov 1999 (1 contact hour)

- 26. "Craniosacral Technique: Level I", Philip E. Greenman, DO, FAAO, Michigan State University of Osteopathic Medicine, Tucson, AZ, Jan 2000 (40 contact hours).
- 27. "Emergency Response Course" and "CPR for the Professional Rescuer", Sports Section of the American Physical Therapy Association, New Orleans, LA, Jan 2000 (30 contact hours).
- 28. "Combined Sections Meeting", American Physical Therapy Association, New Orleans, LA, Feb 2000 (26 contact hours).
- 29. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", Wilford Hall Medical Center, Department of Physical Therapy, San Antonio, TX, Mar 2000 (72 contact hours).
- 30. "United States Savings Bonds: Military Campaign Leadership Conference", Department of the Treasury, Air Force Personnel Center, Randolph Air Force Base, TX, Apr 2000
- 31. "The Panther Sports Medicine Symposium The Knee: A New Millennium from Robotics to Gene Therapy", University of Pittsburgh School of Medicine, Pittsburgh, PA, May 2000 (27 contact hours).
- 32. "Basic Life Support for the Healthcare Provider", American Heart Association, Columbus, MS, Jun 2000
- 33. "Pain Management in the New Millennium", Pfizer Pharmaceuticals, Columbus, MS, Jul 2000 (3 contact hours).
- 34. "Fundamentals of Human Research Subjects", University of Pittsburgh Research Conduct and Compliance Office and The School of Medicine Center for Continuing Education in the Health Sciences, Pittsburgh, PA, Sep 2000 (3.5 contact hours).
- 35. "Training for Success", University of Pittsburgh Survival Skills and Ethics Program Seminar, Pittsburgh, PA, Sep 2000
- 36. "Anatomy of the Spine: New Findings in Discs and Abdominopelvic Musculature", Susan Mercer, PhD, Bphty (Hons), FNZCP, University of Pittsburgh Millennium Conference Series II, Pittsburgh, PA, Sep 2000 (11 contact hours).
- 37. "From Tibialis Anterior to Tai Chi: A 25-Year Odyssey Into the Exploration of Movement Control", Stephen L. Wolf, PT, PhD, FAPTA, University of Pittsburgh Department of Physical Therapy Sixth Endowed Scully Visiting Lecture Program, Pittsburgh, PA, Oct 2000 (2 contact hours).
- 38. "Disability Studies: A Global Perspective", National Institute on Disability and Disability Research, National Press Club, Washington, D.C., Oct 2000
- 39. "Complex Repair of the Meniscus into the Avascular Zone", "Physician Leadership Traits", and "Treatment of the ACL Deficient Knee with Varus Alignment", Frank Noyes, MD, President and

- Medical Director, Cincinnati Sportsmedicine and Orthopaedic Center, University of Pittsburgh Visiting Blue Cross Professor, Pittsburgh, PA, Oct 2000
- 40. "Current Concepts in the Recognition and Treatment of Knee Injuries", Sports Physical Therapy Section of the American Physical Therapy Association, Oct 2000 (30 contact hours).
- 41. "Third Annual University of Pittsburgh Arthritis Institute Research Symposium", University of Pittsburgh Arthritis Institute, Pittsburgh, PA, Dec 2000 (8 contact hours).
- 42. "Civil Rights of Americans with Disabilities", Judith E. Heumann, PhD, Leaders and Legends Lecture, School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA, Dec 2000

- 43. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", San Antonio, TX (24 contact hours)., Feb 2001
- 44. "Combined Sections Meeting", American Physical Therapy Association, San Antonio, TX, Feb 2001 (24 contact hours).
- 45. "Neuromuscular Function In Knee Osteoarthritis", Scott M. Lephart, PhD, ATC, University Of Pittsburgh Arthritis Institute, Pittsburgh, PA, Feb 2001
- 46. "Basic Life Support For The Healthcare Provider And Automatic External Defibrillator Training", American Heart Association, University Of Pittsburgh, Pittsburgh PA, Mar 2001
- 47. "Health Care In The New Millennium", James N. Weinstein, DO, MS, Professor of Medicine, Dartmouth University, Visiting Professor For Orthopaedic Grand Rounds, Department Of Orthopedic Surgery, University Of Pittsburgh, Pittsburgh, PA, Mar 2001
- 48. "Seeking Equal Protection: Reconstructing The Disability Classification", Anita Silvers, PhD, Professor of Philosophy, San Francisco State University, Leaders and Legends Lecture, School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA, Mar 2001
- 49. "University of Pittsburgh Education and Certification Program in Research Practice Fundamentals: Research Integrity Module", University of Pittsburgh Health Sciences, Pittsburgh, PA, May 2001
- 50. "University of Pittsburgh Education and Certification Program in Research Practice Fundamentals: Human Subjects Research Module", University of Pittsburgh Health Sciences, Pittsburgh, PA, May 2001
- 51. "The Art of Shoulder Reconstruction", Frederick A. Matsen III, MD, Visiting Professor, Albert B. Ferguson Lectureship, Department of Orthopaedic Surgery, University of Pittsburgh, PA, Apr 2001
- 52. "Education and Certification Program in Research Practice Fundamentals", University of Pittsburgh Health Sciences, Pittsburgh, PA, Jul 2001
- 53. "Evaluation and Treatment of Scapular Dysfunction", and "Peripheral Nerve Injuries About the Shoulder", Michael A. Shaffer, MS, PT, ATC, Cyclone Sports Medicine Center, Iowa State University, Guest Lecturer, University of Pittsburgh, Pittsburgh, PA, Jul 2001
- 54. "Evaluation and Treatment of the Wrist and Hand", Ken Flowers, PT, CHT, Editor, *Journal of Hand Therapy*, Guest Lecturer, University of Pittsburgh, Pittsburgh, PA, Aug 2001 (14 contact hours).
- 55. "Science 2001: A Research Odyssey", University of Pittsburgh Health Sciences, Pittsburgh, PA, Sep 2001
- 56. "Making Oral Presentations", University of Pittsburgh Survival Skills and Ethics Program Seminar, Pittsburgh, PA, Oct 2001
- 57. "Sports Medicine and Orthopaedic Practice", William E. Garrett, Jr., MD, Professor and Chair, Department of Orthopaedic Surgery, University of North Carolina at Chapel Hill, University of Pittsburgh Department of Orthopaedic Surgery Visiting Blue Cross Professor, Pittsburgh, PA, Oct 2001

- 58. "The Australian Approach to Assessment, Examination, and Treatment of Upper Quarter Neural Dynamics", Denis Dempsey, PT, MAppl. Science, GDAMT, OCS, FAAOMPT, MMPAA, University of Pittsburgh, Pittsburgh, PA Oct 2001(16 contact hours).
- 59. "Spinal Manipulation", Jim Meadows, BScPT, FCAMT, University of Pittsburgh Department of Physical Therapy, Pittsburgh, PA, Oct 2001 (60 contact hours).
- 60. "The Medical Model in Socio-Political Change", Susan M. Daniels, PhD, Former Deputy Commissioner for Disability and Income Security Programs at the Social Security Administration in the Clinton Administration, Leaders and Legends Lecture, School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA, Oct 2001
- 61. "Have No Fear", John L. Echternach, PT, EdD, FAPTA, Seventh Endowed Scully Visiting Lecture Program, Department of Physical Therapy, University of Pittsburgh, Pittsburgh, PA, Nov 2001 (2 contact hours).

- 62. "The Future of Knee Ligament Surgery", as part of the McGowan Institute for Regenerative Medicine (MIRM) Seminar Series, Freddie H. Fu, MD, David Silver Professor and Chairman, Department of Orthopaedic Surgery, Division of Sports Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, Jan 2002 (2 contact hours).
- 63. "Combined Sections Meeting", American Physical Therapy Association, Boston, MA, Feb 2002 (26 contact hours).
- 64. "Human Participants Protection Education for Research Teams", National Institutes of Health online course, Mar 2002
- 65. "Sports Medicine Conference: Case Reports", Sports Medicine Orthopaedic Surgery Fellowship Program, University of Pittsburgh Department of Orthopaedic Surgery, Pittsburgh, PA, Aug 2000-Jun 2002 (weekly 1 hour meeting)
- 66. "How Not to Treat the Neck", Dr. Richard E. Erhard, DC, PT, University of Pittsburgh Department of Physical Therapy, Pittsburgh, PA, Jul 2002 (16 contact hours).
- 67. "Physical Therapist Pass Point Study Workshop for the Physical Therapist National Physical Therapy Examination", Federation of State Boards of Physical Therapy, Alexandria, VA, Aug 2002
- 68. "Manual Therapy Preparatory Course for Fellowship in the American Academy of Orthopedic Physical Therapists", Dr. Richard E. Erhard, DC, PT, FAAOMPT, University of Pittsburgh Department of Physical Therapy, Pittsburgh, PA, Jan-Sep 2002
- 69. "Annual Conference", American Academy of Orthopaedic Physical Therapists, Orlando, FL, Oct 2002 (21 contact hours).
- 70. "Item Writer and Review Committee Workshop for the Physical Therapist National Physical Therapy Examination", Federation of State Boards of Physical Therapy, Alexandria, VA, Oct 2002
- 71. "On-Site Review Workshop for Physical Therapist Edication Programs", Commission on Accreditation in Physical Therapy Education, American Physical Therapy Association, Alexandria, VA, Dec 2002

- 72. "Specialization Academy of Content Experts Item Writing Workshop I", American Board of Physical Therapy Specialties, American Physical Therapy Association, Tampa, FL, Feb 2003 (5.5. contact hours).
- 73. "Combined Sections Meeting", American Physical Therapy Association, Tampa, FL, Feb 2003 (26 contact hours).
- 74. "Collaborative IRB Training Initiative: A Course in the Protection of Human Research Subjects", University of Miami on-Line investigator training, Feb 2003 (6 contact hours).

- 75. 1st Annual 59th Medical Wing Research Appreciation Day, San Antonio, TX, May 2003 (8 contact hours).
- 76. "Item Writer and Review Committee Workshop for the Physical Therapist National Physical Therapy Examination", Federation of State Boards of Physical Therapy, San Diego, CA, Jul 2003
- 77. "Basic Life Support For Healthcare Providers Program", American Heart Association Guidelines 2000, Wilford Hall Medical Center, San Antonio, TX, Jul 2003
- 78. "SPPS User Seminar", SPSS, Inc., Austin, TX, Aug 2003
- 79. "Medical Team Management Training", Risk Management, Wilford Hall Medical Center, San Antonio, TX, Oct 2003 (3.6 contact hours).
- 80. "Annual Conference", American Academy of Orthopaedic Physical Therapists, Reno, NV, Oct 2003 (21 contact hours).

- 81. "Specialization Academy of Content Experts Item Writing Workshop II", American Board of Physical Therapy Specialties, American Physical Therapy Association, Nashville, TN, Feb 2004 (5.5. contact hours).
- 82. "Combined Sections Meeting", American Physical Therapy Association, Nashville, TN, Feb 2004 (27.5 contact hours).
- 83. "Military Spine Conference: Returning Military Personnel to High Risk Activities after Spinal Surgery", Walter Reed Army Medical Center, Alexandria, VA, Mar 2004
- 84. 2nd Annual 59th Medical Wing Research Appreciation Day, San Antonio, TX, Jun 2004 (8 contact hours).
- 85. "Defense Medical and Procurement Conference", U.S. Army Medical Research and Materiel Command, in conjunction with Market*Access International, Baltimore, MD, Jun 2004
- 86. "The Cervicothoracic Spine: An Evidence-based Approach to Manipulative Intervention", Kentucky Orthopedic Rehab Team, Louisville, KY, Jun 2004 (15 contact hours).
- 87. "Examination and Interventions for Patients with Cervical Spine Disorders", Preconference course, Advanced Clinical Practice Series, Annual Conference, American Physical Therapy Association, Chicago, IL, Jun 2004 (15 contact hours).
- 88. Annual Conference, American Physical Therapy Association", American Physical Therapy Association, Chicago, IL, Jun 2004 (8 contact hours).
- 89. "Evidence-based Examination and Interventions for Patients with Disorders of the Lumbar Spine, Pelvis, and Hip", Kentucky Orthopedic Rehab Team, Louisville, KY, Aug 2004 (15 contact hours).
- 90. "Examination, Diagnosis, and Interventions for Patients with Lumbar Instability: An Evidence-based Approach", Annual Conference, Texas Physical Therapy Association, Austin, TX, Oct 2004 (7.5 contact hours).
- 91. "Texas Physical Therapy Association Annual Conference", Texas Physical Therapy Association, Austin, TX, Oct 2004 (8 contact hours).
- 92. "Annual Conference", American Academy of Orthopaedic Physical Therapists, Louisville, KY, Oct 2004 (18.5 contact hours).
- 93. "Medical Screening for the Physical Therapist", Orthopaedic Section, American Physical Therapy Association, Inc. Independent Study Course 14.1.5, Nov 2004 (30 contact hours).

- 94. "Specialization Academy of Content Experts Item Writing Workshop II", American Board of Physical Therapy Specialties, American Physical Therapy Association, New Orleans, LA, Feb 2005
- 95. "Combined Sections Meeting", American Physical Therapy Association, New Orleans, LA, Feb 2005 (25 contact hours).

- 96. "Evidence-based Examination and Selected Interventions for Patients with Lumbar Spine Disorders", Air Force OZO Course, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX, May 2005 (4 contact hours).
- 97. "Evidence-based Examination and Selected Interventions for Patients with Disorders of the Lumbopelvic Spine and Hip", Evidence in Motion, Therapy Services, University Medical Center, Tucson, AZ, Apr 2005 (15 contact hours).
- 98. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic and Hip Disorders", Evidence in Motion, Center for Sports Medicine, Concord Rehabilitation Hospital, Concord, NH, Apr 2005 (15 contact hours).
- 99. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic and Hip Disorders", Evidence in Motion, Rehab Service/Health & Fitness, Thomas Hospital, Fairhope, AL, Apr 2005 (15 contact hours).
- 100. "Examination and Interventions for Patients with Cervical Spine Disorders", Advanced Clinical Practice Series, Advanced Clinical Practice Series, American Physical Therapy Association, Dartmouth Hitchcock Medical Center, Hanover, New Hampshire, Apr 2005 (15 contact hours).
- 101. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", Sheppard AFB, Wichita Falls, TX, May 2005 (24 contact hours).
- 102. "Conference on the Biology of Manual Therapies", National Center of Complementary and Alternative Medicine, National Institutes of Health, Bethesda, MD, Jun 2005
- 103. "Examination, Diagnosis, and Interventions for Patients With Lumbar Instability: An Evidence-based Approach", Preconference course, Advanced Clinical Practice Series, Annual Conference, American Physical Therapy Association, Boston, MA, Jun 2005 (15 contact hours).
- 104. "Evidence-based Examination and Selected Interventions for Patients with Extremity Disorders", Kentucky Orthopedic Rehab Team, Louisville, KY, Jun 2005 (15 contact hours).
- 105. "Instructor Training Course", Staff and Faculty Development Branch, Department of Academic Support and Quality Assurance, Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Jul 2005
- 106. "Evidence-based Practice and Quality Care in Physical Therapist Practice", Department of Physical Therapy and Division of Distance and Continuing Education, Western Carolina University, Cullowhee, NC, Aug 2005 (7.5 contact hours).
- 107. "Examination and Interventions for Patients with Cervical Spine Disorders", Advanced Clinical Practice Series, American Physical Therapy Association, Medical College of Ohio, Toledo, Ohio, Aug 2005 (15 contact hours).
- 108. "Examination and Interventions for Patients with Lumbar Spine Disorders", Advanced Clinical Practice Series, American Physical Therapy Association, George Washington University, Washington, DC, Aug 2005 (15 contact hours).
- 109. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evidence in Motion, University of Texas Health Science Center, San Antonio, TX, Sep 2005 (15 contact hours).
- 110. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evidence in Motion, Long Island University, Brooklyn, NY, Sep 2005 (15 contact hours).
- 111. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic and Hip Disorders", Evidence in Motion, Creighton University, Omaha, NE, Oct 2005 (7.5 contact hours).
- 112. "Examination, Diagnosis, and Interventions for Patients with Lumbar Instability: An Evidence-based Approach", Advanced Clinical Practice Series, American Physical Therapy Association, George Washington University, Washington, DC, Oct 2005 (15 contact hours).

- 113. "Annual Conference", American Academy of Orthopaedic Physical Therapists, Salt Lake City, UT, Oct 2005 (16 contact hours).
- 114. "Preview 2020", American Physical Therapy Association, Las Vegas, NV, Nov 2005 (18 contact hours).

- 115. "Combined Sections Meeting", American Physical Therapy Association, San Diego, CA, Feb 2006 (25 contact hours).
- 116. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Evidence in Motion, Drayer Physical Therapy, Harrisburg, PA, Jan 2006 (15 contact hours).
- 117. "Evidence-based Examination and Selected Interventions for Patients with Lumbar Spine Disorders", Air Force OZO Course, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX, Feb 2006 (4 contact hours).
- 118. "Evidence-based Examination and Selected Interventions for Patients with Spine Disorders", Evidence in Motion, Montefiore Medical Center, New York, NY, Mar 2006 (15 contact hours).
- 119. "Teaching Manipulation: An Instructors's Workshop", Evidence in Motion, Bellin Health System, Green Bay, WI, Mar 2006 (7.5 contact hours).
- 120. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Evidence in Motion, Appleton Health System, Appleton, WI, Mar 2006 (15 contact hours).
- 121. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evidence in Motion, Therapy Services, University Medical Center, Tucson, AZ, Apr 2006 (15 contact hours).
- 122. "Clinical Trial in Rehabilitation: Opportunities and Challenges", Pam Duncan, PT, PhD, FAPTA, US Army-Baylor University Doctoral Program in Physical Therapy, San Antonio, TX, My 2006 (6 contact hours).
- 123. "Rehabilitative Ultrasound Imaging Symposium", Advances in Medical Practice Program, Office of the Surgeon General and US Army-Baylor University Doctoral Program in Physical Therapy, San Antonio, TX, May 2006.
- 124. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evidence in Motion, Center for Sports Medicine, Concord Rehabilitation Hospital, Concord, NH, May 2006 (15 contact hours).
- 125. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evidence in Motion, Rehab Service/Health & Fitness, Thomas Hospital, Fairhope, AL, Jun 2006 (15 contact hours).
- 126. "The Race for Ownership of Low Back Pain: Evidence Trumps Politics", Distinguished Lecture Series, Texas Woman's University, Houston, TX, Jul 2006 (1 contact hour).
- 127. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evidence in Motion, Department of Physical Therapy, University of Colorado Health Sciences Center, Denver, CO, Aug 2006 (15 contact hours).
- 128. "The COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers", Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Sep 2006 (8 contact hours).
- 129. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Department of Physical Therapy, University of Texas Health Science Center, San Antonio, TX, Sep 2006 (15 contact hours).
- 130. "What Insurances Know about EBM and How It Can Affect You", Annual Conference & Exposition of the Private Practice Section, Miami, FL, Oct 2006 (3 contact hours).

- 131. "Treatment-based Classification of Low Back Pain", Drayer National Conference Rehabilitation and Sports Medicine, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2006 (2 contact hours).
- 132. "Manual Physical Therapy Versus Stabilization for Low Back Pain", Drayer National Conference Rehabilitation and Sports Medicine, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2006 (2 contact hours).
- 133. "Annual Conference", American Academy of Orthopaedic Physical Therapists, Charlotte, NC, Oct 2006 (17.25 contact hours).
- 134. "The Race for Ownership of Low Back Pain: Evidence Trumps Politics", National Student Conclave, American Physical Therapy Association, Dallas, TX, Oct 2006 (3 contact hours).
- 135. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evergreen Physical Therapy, Reed City, MI, Nov 2006 (15 contact hours).
- 136. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Colorado Sports and Spine Centers, Colorado Springs, CO, Dec 2006(15 contact hours).

- 137. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", University of Pittsburgh, Pittsburgh, PA, Jan 2007 (8 contact hourse).
- 138. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Park Nicollet, St. Louis Park, MN, Jan 2007 (15 contact hours).
- 139. "Combined Sections Meeting", American Physical Therapy Association, Boston, MA, Feb 2007 (21 contact hours).
- 140. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Annual Conference, Florida Physical Therapy Association, Orlando, FL, Mar 2007.
- 141. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Alamance Regional Medical Center, Burlington, NC, Mar 2007 (15 contact hours).
- 142. "Professional Issues", Air Force OZO Course, Wilford Hall Medical Center, San Antonio, TX, Mar 2007 (1 contact hour).
- 143. "The Race for Ownership of Low Back Pain: Evidence Trumps Politics", Department of Physical Therapy, West Virginia University, Morgantown, WV, Apr 2007.
- 144. "2007 Advocacy Academy and PT Day on Capitol Hill", American Physical Therapy Association, Washington, DC, May 2007 (9 contact hours).
- 145. "Annual Conference, American Physical Therapy Association", American Physical Therapy Association, Denver, CO, Jun 2007 (24 contact hours).
- 146. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Texas Physical Therapy Specialists, San Antonio, TX, Jul 2007 (15 contact hours).
- 147. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Orthopedics Plus Physical Therapy, Russellville, KY, Aug 2007 (15 contact hours)
- 148. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Alamance Regional Medical Center, Burlington, NC, Sep 2007 (15 contact hours).
- 149. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", ProRehab, Evansville, IN, Sep 2007 (15 contact hours).
- 150. "Annual Conference", American Academy of Orthopaedic Physical Therapists, St. Louis, MO, Oct 2007 (17.25 contact hours)
- 151. "Annual Conference & Exposition of the Private Practice Section", Private Practice Section, American Physical Therapy Association, San Diego, CA, Nov 2007 (21 contact hours).

- 152. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Park Nicollet, St. Louis Park, MN, Jan 2008 (15 contact hours).
- 153. "Combined Sections Meeting", American Physical Therapy Association, Nashville, TN, Feb 2008 (21 contact hours).
- 154. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Physical Therapy South, Lafayette, LA, Feb 2008 (15 contact hours).
- 155. "The Power of Alignment: Leading High Performance Teams", Edgar Papke, Living Change, Austin, TX, Feb 2008 (3 contact hours)
- 156. "Web Evolution Technology & Marketing", Yvonne Tocquigny, Tocquigny Advertising & Design, Inc., Austin, TX, Mar 2008 (3 contact hours)
- 157. "Stop Talking; Start Communication", Mark Wiskup, Mark Wiskup Communications, Inc., New Braunfels, TX, Mar 2008 (3 contact hours)
- 158. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Providence Health, Portland, OR, Mar 2008 (15 contact hours).
- 159. "Delineating the Evidence Base for Somato-Visceral Interactions and Autonomic Mechanisms of Manual Therapy", The Osteopathic Research Center, University of North Texas Health Science Center, Fort Worth, TX, Mar 2008 (8 contact hours).
- 160. "Professional Issues", Air Force OZO Course, Wilford Hall Medical Center, San Antonio, TX, Mar 2008 (1 contact hour).
- 161. "Colonel Mary Lipscomb Hamrick Research Course", Army Medical Department, San Antonio, TX, Apr 2008.
- 162. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", St. Joseph's Medical Center, Bloomington, IL, Apr 2008 (15 contact hours).
- 163. Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Mountain River Physical Therapy, Parkersburg, WV, Jun 2008 (15 contact hours).
- 164. "Annual Conference, American Physical Therapy Association", American Physical Therapy Association, San Antonio, TX, Jun 2008 (24 contact hours).
- 165. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Benchmark Physical Therapy, Atlanta, GA, Aug 2008 (15 contact hours).
- 166. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", New Mexico State Chapter of the American Physical Therapy Association, Albuquerque, NM, Sep 2008 (15 contact hours).
- 167. "Physical Therapists and the 21st Century Health Care Food Chain", University of Mary, Bismarck, ND, Sep 2008 (8 contact hours).
- 168. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", North Dakota State Chapter of the American Physical Therapy Association, Bismarck, ND, Sep 2008 (15 contact hours).
- 169. "Educational Leadership Conference", Education Section, American Physical Therapy Association, Phoenix, AZ, Oct 2008 (17 contact hours).
- 170. "Annual Conference", American Academy of Orthopaedic Physical Therapists, Seattle, WA, Oct 2008 (17.5 contact hours)
- 171. "Annual Conference & Exposition of the Private Practice Section", Private Practice Section, American Physical Therapy Association, Orlando, FL, Nov 2008 (4 contact hours).

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172. "Combined Sections Meeting", American Physical Therapy Association, Las Vegas, NV, Feb 2009 (21 contact hours).

- 173. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Physical Therapy South, Lafayette, LA, Mar 2009 (15 contact hours).
- 180. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", PRO-Active Physical Therapy, Syracuse, NY, Mar 2009 (15 contact hours).
- 174. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Ohio State University, Columbus, OH, Apr 2009 (15 contact hours).
- 175. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Ohio State University, Columbus, OH, Apr 2009.
- 176. "Professional Issues", Air Force OZO Course, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX, Apr 2009 (1 contact hour).
- 177. "Use of Technology in Evidence-based Practice", Air Force OZO Course, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX, Apr 2009 (1 contact hour).
- 178. "Using Outcome Measures in Clinical Practice", Air Force OZO Course, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX, Apr 2009 (1 contact hour).
- 179. "Embracing Clinical Education Standards: A Work in Progress", Texas Consortium for Physical Therapy Continuing Education, Dallas, TX, Jul 2009 (6.5 contact hours).
- 180. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Phoenix Rehab, Mt. Pleasanton, PA, Aug 2009 (15 contact hours).
- 181. "Annual Conference of the California Physical Therapy Association", California Physical Therapy Association, Pasadena, CA, Oct 2009 (8 contact hours).
- 182. "The Race for Ownership of Low Back Pain", Kaiser Permanente Los Angeles Orthopaedic Manual Therapy Fellowship, Los Angeles, CA, Oct 2009 (6 contact hours).
- 183. "Annual Conference", American Academy of Orthopaedic Physical Therapists, Washington, DC, Oct 2009 (17.75 contact hours)
- 184. "Air Force Medical Service Senior Leadership Conference", Air Force Medical Service, Leesburg, VA, Oct 2009 (24 contact hours).
- 185. "Annual Conference & Exposition of the Private Practice Section", Private Practice Section, American Physical Therapy Association, Colorado Springs, CO, Nov 2009 (4 contact hours).

- 186. "Executive Program in Private Practice Management Weekend Intensive (Executive Management & Strategy, Leadership & Entrepreneurship, & Finance)", Evidence in Motion, Louisville, KY, Jan 2010 (20 contact hours).
- 187. "Combined Sections Meeting", American Physical Therapy Association, San Diego, CA, Feb 2010 (21 contact hours).
- 188. "Effective Negotiating®", Karrass Seminars, Austin, TX, Mar 2010 (16 contact hours)
- 189. "Physical Therapists Rescue General Motors from the Brink of Bankruptcy", Arizona Physical Therapy Association, Tucson, AZ, Apr 2010 (1 contact hour).
- 190. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine & Hip Disorders", Carondolet Health System, Tucson, AZ, Apr 2010 (24 contact hours).
- 191. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", College of Mt. St. Joseph Health Science Center, Cincinnati, OH, Apr 2010 (15 contact hours).
- 192. "AmaZing! Customer Service Certificate Program", PT Development, San Antonio, TX, Apr 2010 (8 contact hours).
- 193. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine & Hip Disorders", Alabama Chapter of the American Physical Therapy Association Spring Conference, Organge Beach, AL, May 2010 (15 contact hours).
- 194. "Manipalooza", Evidence in Motion, Denver, CO, May 2010 (32 contact hours).

- 195. "Executive Program in Private Practice Management Weekend Intensive (Finance, Marketing, & Human Resources)", Evidence in Motion, Louisville, KY, Jun 2010 (20 contact hours).
- 196. "Evidence-based Examination and Selected Interventions for Patients with Cervicothoracic Disorders", Carondolet Health System, Tucson, AZ, Jul 2010 (24 contact hours).
- 197. "Evidence-based Examination and Selected Interventions for Patients with Cervicothoracic Disorders", North Dakota State Chapter of the American Physical Therapy Association, Bismarck, ND, Sep 2010 (15 contact hours).
- 198. "Annual Conference", American Academy of Orthopaedic Physical Therapists, San Antonio, TX, Oct 2010 (17.75 contact hours).
- 181. "2010 Annual Musculoskeletal Conference: The Dilemma of Low Back Pain", Benchmark Physical Therapy, Braselton, GA, Oct 2010 (12 contact hours).
- 199. "Annual Conference & Exposition of the Private Practice Section", Private Practice Section of the American Physical Therapy Association, Washington, DC, Nov 2010 (6 contact hours).
- 200. "Ethics and Professional Responsibility for Texas Physical Therapists and Physical Therapist Assistants", Wild Iris Medical Education, Inc., San Antonio, TX, Dec 2010 (2 contact hours).
- 201. "Executive Program in Private Practice Management Weekend Intensive (Managing Change, Succession Planning, Legal, Fitness, Occupational Medicine, Business Development)", Evidence in Motion, Orlando, FL, Dec 2010 (20 contact hours).

202. "Combined Sections Meeting", American Physical Therapy Association, New Orleans, LA, Feb 2011 (21 contact hours).