



John D. Childs, PT, PhD, MBA
Assistant Professor and Director of Research
U.S. Army-Baylor University Doctoral Program in Physical Therapy
3151 Scott Rd., Rm. 1303 (MCCS-HMT)
San Antonio, TX 78234
fax: (210) 579-2637

May-08

EDUCATION:

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

APPOINTMENTS AND POSITIONS:

1996–1998	Staff Physical Therapist, Department of Physical Therapy, Davis-Monthan AFB, Tucson, AZ
1998–1999	Assistant Director, Department of Physical Therapy, Davis-Monthan AFB, Tucson, AZ
1999–2000	Director, Department of Physical Therapy, Columbus AFB, Columbus, MS
2000–2003	Doctoral Candidate (PhD, Rehabilitation Science), Air Force Institute of Technology, Department of Physical Therapy, University of Pittsburgh, Pittsburgh, PA
2003-2005	Senior Physical Therapist and Director of Research, Department of Physical Therapy, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX
2004-2005	Postdoctoral Research Fellow, Department of Physical Therapy, School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA
2005-2007	Assistant Professor and 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 and 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 and 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, AND FELLOWSHIPS:

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

PROFESSIONAL ACTIVITIES:

Memberships in Professional Societies:

1996- Member, American Physical Therapy Association (member #: 231478)

- 1996-1999 Member, Arizona Physical Therapy Association and the Southern District of the Arizona Physical Therapy Association
- 1998-2002 Member, National Strength and Conditioning Association (member #: 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 the Southwestern District of the Pennsylvania Physical Therapy Association
- 2000-1994 Member, Military Special Interest Group, National Strength and Conditioning Association
Life Member, U.S. Air Force Academy Association of Graduates (member #: 940705)
- 1996-1996 Member, U.S. Army-Baylor University Physical Therapy Alumni Association
- 1996-2000 Member, Orthopaedic Section, American Physical Therapy Association
- 2000-2000 Member, Sports Section, American Physical Therapy Association
- 2000-2002 Member, Sports Residency Special Interest Group, Sports Physical Therapy Section, American Physical Therapy Association
- 2002-2002 Member, Education Section, American Physical Therapy Association
- 2002-2002 Member, Research Section, American Physical Therapy Association
- 2002-2002 Fellow Member, American Academy of Orthopaedic Manual Physical Therapists (member #: FF0342)
- 2002-2002 Charter Member, Three Rivers Chapter of the U.S. Air Force Academy Association of Graduates
- 2002-2002 Member, Texas Physical Therapy Association and the Central District of the Texas Physical Therapy Association
- 2003-2003 Member, Alamo Area Chapter of the U.S. Air Force Academy Association of Graduates
- 2003-2003 Life Member, Association of Military Surgeons of the United States (AMSUS) (member #: 78897)
- 2007-2007 Member, Forbes.com CEO Network
- 2007-2007 Member, Private Practice Section, American Physical Therapy Association
- 2007-2007 Member (#0C0705281307), Space Adventures' Spaceflight Club
- 2007-2007 Member, San Antonio Petroleum Club
- 2007-2007 Member, U.S. Air Force Academy Sabre Society

Professional Service:

- 1996-2000 President, Class of 1996 Alumni Association, U.S. Army-Baylor University Physical Therapy Alumni Association
- 1999-2000 President, Mississippi State Chapter, National Strength and Conditioning Association
- 1999-2000 Center Coordinator for Clinical Education, Department of Physical Therapy, Columbus Air Force Base, Columbus, MS
- 1999-2000 Member, 14th Flying Training Wing Medical Casualty Notification Team for the Southeastern region, Columbus Air Force Base, Columbus, MS
- 1999-2000 Director, 14th Medical Group Ambassador Program, Columbus Air Force Base, Columbus, MS
- 1999-2000 Member, 14th Flying Training Wing Commander's Action Group, Columbus Air Force Base, Columbus, MS
- 2000-2000 Director, 14th Flying Training Wing Treasury Department's 2000 Savings Bond Campaign, Columbus Air Force Base, Columbus, MS
- 2001-2003 Item Writer and Review Committee, Physical Therapist National Physical Therapy Examination, Federation of State Boards of Physical Therapy
- 2001-2005 Member, Membership Committee, Orthopaedic Section, American Physical Therapy Association
- 2002-2002 Designated Examiner, Health/Fitness Instructor Certification Examination, American College of Sports Medicine
- 2002-2002 Physical Therapist Pass Point Study Committee, Physical Therapist National Physical

- 2002 Therapy Examination, Federation of State Boards of Physical Therapy
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
- 2003- Member, Hooked on Evidence Extraction Review Group, American Physical Therapy
2005 Association
- 2004 Orthopaedic Poster Tour Facilitator, Annual Conference and Exposition of the 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
- 2004- Trustee, Texas Physical Therapy Foundation
2005
- 2004- Member, Development Committee, Texas Physical Therapy Foundation
2005
- 2004- Member, Finance Committee, Orthopaedic Section, American Physical Therapy Association
2006
- 2004- Member, Orthopaedic Independent Study Course Advisory Panel, Orthopaedic Section,
2007 American Physical Therapy Association
- 2005- Member, Differential Diagnosis Subcommittee of the Annual Conference Program
2006 Committee, 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
- 2002- Member, Research Committee, American Academy of Orthopaedic Manual Physical
Therapists
- 2003- Member, Public Relations Committee, American Academy of Orthopaedic and Manual
Physical Therapists
- 2004- Orals Board Examiner, U.S. Army-Baylor University Doctoral Program in Physical Therapy
- 2004- Member, Examination Committee, American Academy of Orthopaedic and Manual Physical
Therapists
- 2005- Treasurer, American Academy of Orthopaedic and Manual Physical Therapists
- 2005- Member, Pentagon Chiropractic Health Care Benefit Advisory Committee
- 2005- Member, Research Exchange Group, Combined Sections Meeting, Orthopaedic Section,
American Physical Therapy
- 2006- Member, Michels Forum Planning Committee, Section on Research, American Physical
Therapy Association
- 2006- Member, Annual Awards Task Force, Texas Physical Therapy Association
- 2007- Member, Scientific Advisory Committee, Foundation for Physical Therapy
- 2008- Member, National Institutes of Health & National National Center for Complementary and
Alternative Medicine Nomenclature Conference Working Group
- 2008- Member, Graham Session, Private Practice Section, American Physical Therapy Association
- 2008- Member, Task Force on Product Endorsement and Evaluation Recommendations, American

- Physical Therapy Association
2008- Member, Continuing Education Approval Program Task Force, Texas Physical Therapy Association
2008 Member, Low Back Pain Toolkit Task Force, VA/DoD Low Back Pain Guideline Committee

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 Phys Ther*
2005
2004- Member, Committee for Screening Abstracts and Proposals, American Physical Therapy Association
2006
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
2007 Reviewer, Occupational Medicine Practice Guidelines, 2nd Edition, American College of Occupational and Environmental Medicine
2002- Manuscript reviewer: *Annals of Internal Medicine*, *British Medical Journal*, *Spine*, *BMC Musculoskeletal Disorders*, *Journal of Bone and Joint Surgery*, *Physical 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*, *Physiotherapy Theory and Practice*
2002- Member, Abstract Review Committee, Orthopaedic Section, American Physical Therapy Association
2003- Grant reviewer, American Academy of Orthopaedic and Manual Physical Therapists
2004- Member, Abstract Review Committee, Section on Research, American Physical Therapy Association
2005- Associate Editor, *Journal of Orthopaedic and Sports Physical Therapy*
2005- Grant reviewer, Orthopaedic Section, American Physical Therapy Association
2006- Editorial Board Member, *Physical Therapy*

Service on Student/Resident Advisory Committees

- 2002- Faculty Research Advisory Committee, U.S. Army-Baylor University Graduate Program in
2004 Physical Therapy (Class 2004), "Does ultrasound biofeedback improve performance of the abdominal drawing-in maneuver in patients with chronic low back pain?"
2003- Faculty Research Advisory Committee (Class 2006), U.S. Army-Baylor Doctoral Program in
2005 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"
2004- Faculty Research Advisory Committee (Class 2007), U.S. Army-Baylor Doctoral Program in
2007 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"
2004- Faculty Research Advisory Committee (Class 2007), U.S. Army-Baylor Doctoral Program in
2007 Physical Therapy, "Long term effectiveness of the army's running shoe program: an analysis of soldiers' knowledge and shoe selection"
2005- Faculty Research Advisory Committee (Class 2008), U.S. Army-Baylor Doctoral Program in
2008 Physical Therapy, "Assessment of the lateral abdominal muscles in subjects with sacroiliac dysfunction during the active straight-leg-raise test"
2005- Faculty Research Advisory Committee (Class 2008), U.S. Army-Baylor Doctoral Program in

- 2008 Physical Therapy, "Predictive validity of selected clinical examination findings for the diagnosis of hip osteoarthritis"
- 2006-2007 Doctoral Dissertation Committee (Class 2006), U.S. Army Post-professional Doctoral Program in Orthopaedic Manual Physical Therapy, "A clinical prediction rule for classifying patients with neck pain who demonstrate short-term improvement with cervical traction"
- 2006-2009 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"
- 2006-2009 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"
- 2007-2008 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"
- 2007-2008 Doctoral Dissertation Committee (Lisa Stolze), Rocky Mountain University, "A clinical prediction rule for classifying patients with chronic low back pain who are most likely to benefit from Pilates exercise"
- 2007-2009 Doctoral Dissertation Committee (John McGee), University of Pittsburgh, Cost effectiveness of classification-based physical therapy in an academic medical center"
- 2007-2008 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"
- 2007-2010 Faculty Research Advisory Committee (Class 2010), U.S. Army-Baylor Doctoral Program in Physical Therapy, "The effect of traditional physical training versus core stabilization exercises on injury and lost training in Soldiers during Advanced Individual Training"
- 2007-2010 Faculty Research Advisory Committee (Class 2010), U.S. Army-Baylor Doctoral Program in 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"

Consultant/Advisory Work:

- 1994 Consultant to Valley Forge Military Academy for development of honor code policy
- 1998-1999 Fitness consultant to U.S. Marine Corps on behalf of the National Strength and Conditioning Association
- 2001-2002 Strength and Conditioning Advisor to the National Strength and Conditioning Association
- 2001- Education and Business Practice Consultant to the Associate Chief for Physical Medicine, Physical Therapy Career Field, U.S. Air Force
- 2003- 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
- 2004- Council member and consultant, Council of Healthcare Advisors, Gerson Lehrman Group
- 2004- 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 AND AWARDS:

- 1994 Distinguished Graduate, (top 7%,with academic and military distinction), U.S. Air Force Academy, Colorado Springs, CO

- 1994 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
- 2004 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
- 2004 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
- 2004 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
- 2005 Keynote speaker, 13th Annual National Student Conclave, American Physical Therapy Association, Denver, CO
- 2005 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, "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

- 2006 Outstanding Research Poster Presentation Award, Texas Physical Therapy Association, "Awareness and Compliance with Recommended Physical Activity and Running Shoe Guidelines Among American Soldiers"
- 2006 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"
- 2007 COL David G. Greathouse Excellence in Research Award, US Army-Baylor University, Predictive Validity of Selected Clinical Examination Findings for the Diagnosis of Hip OA
- 2007 Charles M. Magistro Distinguished Lecturer Award, Arcadia University
- 2007 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"
- 2007 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"
- 2008 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"

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

1. Childs JD. The impact of the valsalva maneuver during resistance exercise. Strength and Conditioning Journal. 1999; 21(2):54-55.
2. Fitzgerald GK, Childs JD, Ridge TM, Irrgang JJ. Agility and perturbation training for a physically active individual with knee osteoarthritis. Physical Therapy. 2002; 82(4):372-382. [PMID: 11922853](#).
3. 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. Childs JD, 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. Childs JD, 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, Childs JD, 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. [PMID: 12975630](#).
8. Childs JD, 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. [PMID: 14659929](#).
9. Fritz JM, Whitman JM, Flynn TW, Wainner RS, Childs JD. Factors related to the inability of individuals with low back pain to improve with a spinal manipulation. Phys Ther. 2004; 84(2): 173-190. [PMID: 14744207](#).

10. Childs JD, 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. [PMID: 15195038](#).
11. Whitman JM, Fritz JM, Childs JD. 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. [PMID: 15609487](#).
12. Childs JD, 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. [PMID: 15609489](#).
13. Childs JD, 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. [PMID: 15611489](#).
14. Childs JD, 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. [PMID: 15966541](#).
15. Cleland JA, Childs JD, 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. [PMID: 15922233](#).
16. Childs JD, Piva SR, Fritz JM. Responsiveness of the numeric pain rating scale in patients with low back pain. *Spine.* 2005; 30(11):1331-1334. [PMID: 15928561](#).
17. Childs JD, 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, Childs JD, 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. [PMID: 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, Childs JD, 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, Childs JD. Accuracy of the clinical examination to predict radiographic instability of the lumbar spine. *Eur Spine J.* 2005; 14(8):743-750. [PMID: 16047211](#).
22. Fritz JM, Whitman JM, Childs JD. 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. [PMID: 16181937](#).
23. Childs JD, Piva SR. Psychometric properties of the functional rating index in patients with low back pain. *Eur Spine J.* 2005; 14(10):1008-12. [PMID: 15834591](#).
24. Cleland JA, Childs JD, Palmer JA, McRae M. Slump stretching in the management of non-radicular low back pain: A pilot clinical trial. *Man Ther.* Ahead of print. [PMID: 16380286](#).
25. Piva, SR. Goodnite EA, Childs JD. 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. [PMID: 16848100](#).
26. Childs JD, Cleland, JA. The development and application of clinical prediction rules to improve decision-making in physical therapist practice. *Phys Ther.* 2006; 86(1):122-131. [PMID: 16386067](#).
27. Flynn TW, Childs JD, Fritz JM. The audible pop from high-velocity thrust manipulation and outcome in individuals with low back pain. *J Manipulative Physiol Ther.* 2006; 29(1):40-45. [PMID: 16396728](#).
28. Cleland JA, Fritz JM, Childs JD, Kulig K. 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: study protocol of a randomized clinical trial. (NCT00257998). *BMC Musculoskelet Disord.* 2006; 7:11. <http://www.biomedcentral.com/1471-2474/7/11>. [PMID: 16472379](#).

29. Piva SR, Fitzgerald GK, Irrgang JJ, Jones S, Hando B, Childs JD. Reliability of measures of impairments associated with patellofemoral pain syndrome. *BMC Musculoskelet Disord*. 2006; 7: 33. <http://www.biomedcentral.com/1471-2474/7/33>. PMID: 16579850.
30. Cleland JA, Fritz JM, Whitman JM, Childs JD. The use of a lumbar spine manipulation technique in patients who satisfy a clinical prediction rule: a case series. *J Orthop Sports Phys Ther*. 2006; 36(4): 209-14. PMID: 16676870.
31. George SZ, Fritz JM, Childs JD, Brennan GP. Sex differences in predictors of outcome in selected physical therapy interventions for patients with acute low back pain. *J Orthop Sports Phys Ther*. 2006; 36(6): 354-363. PMID: 16776485.
32. Childs JD, Fritz JM, Flynn TW. A perspective for considering the risks and benefits of spinal manipulation in patients with low back pain. *Man Ther*. 2006; 11: 316-320. PMID: 16839800.
33. Piva SR, Erhard RE, Childs JD, Browder DA. Inter-tester reliability of passive intervertebral and active movements of the cervical spine. *Man Ther*. 2006; 11: 321-330. PMID: 16837235.
34. Cleland JA, Childs JD, Whitman JM, Fritz JF. Interrater reliability of the historical and physical examination in patients with mechanical neck pain. *Arch Phys Med and Rehab*. 2006; 87(10): 1388-95. PMID: 17023251.
35. Whitman JM, Flynn TW, Childs JD, Wainner RS, Gill H, Ryder M, Garber MB, Bennett A, Fritz JM. A comparison between two physical therapy treatment programs for patients with lumbar spinal stenosis: A randomized clinical trial. *Spine*. 2006; 31(22): 2541-2549. PMID: 17047542.
36. Cleland JA, Childs JD, Fritz JF, Whitman JM, Eberhart SL. 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. *Phys Ther*. 2007; 87(1): 9-23. PMID: 17142640.
37. Teyhen DS, Flynn TW, Childs JD, Abraham LD. Arthrokinematics in a sub-group of patients likely to benefit from a lumbar stabilization exercise program. *Phys Ther*. 2007; 87(3): 313-325. PMID: 17311885.
38. Cleland JA, Glynn P, Whitman JM, Eberhart SL, MacDonald C, Childs JD. Short-term effects of thrust versus nonthrust mobilization/manipulation directed at the thoracic spine in patients with neck pain: A randomized clinical trial. *Phys Ther*. 2007; 87(4): 431-440. PMID: 17341509.
39. Teyhen DS, Flynn TW, Childs JD, Kuklo TR, Rosner MK, Polly DW, Abraham LD. Fluoroscopic video to identify aberrant lumbar motion. *Spine* 2007; 32(7): E220-229. PMID: 17414897.
40. Childs JD, Whitman JM, Pugia ML, Sizer PS, Flynn TW, Delitto A. Knowledge in managing musculoskeletal conditions and educational preparation of physical therapists in the uniformed services. *Mil Med*. 2007; 172(4): 440-445. PMID: 17484321.
41. Fritz JM, Cleland, JA, Childs JD. Subgrouping patients with low back pain: Evolution of a classification approach to physical therapy. *J Orthop Sports Phys Ther*. 2007; 37(6): 290-302. PMID: 17612355.
42. Cleland JA, Flynn TW, Childs JD, Eberhart SL. The audible pop from thoracic spine thrust manipulation and its relation to short-term outcomes in patients with neck pain. *J Man Manip Ther*. 2007; 15(3): 143-154.
43. Raney NH, Teyhen DS, Childs JD. Observed changes in lateral abdominal muscle thickness after spinal manipulation: A case series using rehabilitative ultrasound imaging. *J Orthop Sports Phys Ther*. 2007; 37(8): 472-9. PMID: 17877283.
44. George SZ, Childs JD, Teyhen DS, Wu SS, Wright AD, Dugan JL, Robinson ME. Rationale, design, and protocol for the prevention of low back pain in the military (POLM) trial (NCT00373009). *BMC Musculoskelet Disord*. 2007; 8: 92. <http://www.biomedcentral.com/1471-2474/8/92/abstract>. PMID: 17868436.
45. Browder DA, Childs JD, Cleland JA, Fritz JM. Effectiveness of an extension-oriented treatment approach in a subgroup of patients with low back pain: A randomized clinical trial. *Phys Ther*. 2007; Sep 25; [Epub ahead of print]. PMID: 17895350.
46. Cleland JA, Childs JD, Whitman JM. Psychometric properties of the neck disability index and numeric pain rating scale in patients with neck pain. *Arch Phys Med Rehabil*. 2008; 89(1): 69-74. PMID: 18164333.
47. Cleland JA, Childs JD, Fritz JM. Psychometric properties of the Fear-avoidance Beliefs Questionnaire and the Tampa Scale of Kinesiophobia in patients with neck pain. *Am J Phys Med Rehabil*. 2007; Oct 29; [Epub ahead of print]. PMID: 17993982.

48. George SZ, Fritz JM, Childs JD. Investigation of elevated fear-avoidance beliefs for patients with low back pain: A secondary analysis involving patients enrolled in physical therapy clinical trials. *J Orthop Sports Phys Ther*. In press.
49. Piva SR, Fitzgerald GK, Irrgang JJ, Fritz JM, Wisniewski S, McGinty GT, Childs JD, Domenech MA, Jones SA, Delitto A. Predictors of physical function in patients with patellofemoral pain syndrome. *Phys Ther*. In review.
50. Teyhen DS, Waterhouse JL, Westrick RB, Miller AC, Molloy JM, Childs JD. Changes in deep abdominal muscle thickness during common trunk strengthening exercises using ultrasound imaging. *J Orthop Sports Phys Ther*. In review.
51. Cleland JA, Flynn TW, Childs JD, Fritz JM. The audible pop from thoracic spine thrust manipulation and outcomes in patients with neck pain. *Arch Phys Med Rehabil*. In review.
52. Teyhen DS, Williamson JN, Carlson NH, Suttles ST, O'Laughlin SJ, Whittaker JL, Goffar SL, Childs JD. Lateral abdominal muscle function in subjects with lumbopelvic pain during the active straight-leg-raise test. *Phy Ther*. In review.
53. Teyhen DS, Mooney LN, Dolbeer JA, Maxwell SE, Molloy JM, Whittaker JL, Childs JD. Lateral abdominal muscle function in subjects with lumbopelvic pain during the abdominal drawing-in maneuver. *Arch Phys Med Rehabil*. In review.
54. Sutlive TG, Lopez HP, Boyles RE, Halle RJ, Schnitker D, Yawn SE, Mansfield LT, Childs JD. Predictive validity of selected clinical examination findings for the diagnosis of hip osteoarthritis. *J Orthop Sports Phys Ther*. In review.
55. Young BA, Walker MJ, Strunce JB, Boyles RE, Whitman JM, Childs JD. Responsiveness of the Neck Disability Index in patients with mechanical neck disorders. *Spine J*. In review.
56. Raney NH, Petersen EJ, Smith TA, Cowan JE, Rendeiro DG, Deyle GD, Childs JD. A clinical prediction rule for classifying patients with neck pain who demonstrate short-term improvement with cervical traction and exercise. *Spine*. In review.
57. Whitman JM, Houser J, Cleland JA, Wainner RS, Childs JD. Psychometric properties of the modified Oswestry Disability Index, Numeric Pain Rating Scale, modified swiss Spinal Stenosis Scale, and Patient Specific Functional Scale in patients with lumbar spinal stenosis. *Spine*. In review.
58. Piva SR, Childs JD, Klucinec BM, Irrgang JJ, Almeida GJM, Fitzgerald GK. Patella fracture during rehabilitation after bone-patellar-tendon bone anterior cruciate ligament reconstruction: Two case reports. *J Orthop Sports Phys Ther*. In review.
59. George SZ, Childs JD, Teyhen DS, Wu SS, Wright AC, Dugan JL, Robinson ME. The effect of a brief psychosocial educational program on beliefs for management of low back pain: Results of a cluster randomized clinical trial. *Spine*. In review.

PUBLISHED ABSTRACTS (PUBLISHED, IN PRESS, AND IN REVIEW):

1. Childs JD, Gantt C, Higgins D, Papazis J, Franklin R, Metzger T et al. The effects of repeated bouts of backward walking on physiologic efficiency. *Proceedings of the Annual Conference of the Texas Physical Therapy Association*. 1996.
2. Childs JD, Fitzgerald GK, Irrgang JJ, Sparto PJ, Bizzini M. Gait adaptations in individuals with knee osteoarthritis. *Proceedings of the University of Pittsburgh Science 2001: A Research Odyssey*. 2001.
3. Piva SR, Erhard RE, Childs JD, Hicks G, Al-Abdulmohsin H. Reliability of measuring iliac crest height in standing and in sitting position using a new measurement device. *Proceedings of the 4th Interdisciplinary World Congress on Low Back and Pelvic Pain*. 2001.
4. Fitzgerald GK, Childs JD, Ridge TM, Irrgang JJ. Coordination and agility training in individuals with knee osteoarthritis: A case report. *J Orthop Sports Phys Ther*. 2002; 32(1):A-17.
5. Sparto PJ, Fritz JM, Childs JD, Pillai G, Delitto A. Reliability of Fitts' law for quantifying the control of lumbar spine motion in subjects with and without a history of chronic low back pain. *J Orthop Sports Phys Ther*. 2002; 32(1):A-20-21.
6. Whitman JM, Childs JD. The use of manipulation in a patient with an ankle sprain not responding to conventional management: A case report. *J Orthop Sports Phys Ther*. 2002; 32(1):A-45-46.

7. Irrgang JJ, Piva SR, Westerheide K, Childs JD, Bouzabar F, Fitzgerald GK, Fu FH, Harner CD. Clinical outcome following anterior cruciate ligament (ACL) reconstruction with hamstring versus bone-patellar tendon bone autografts. *Pittsburgh Orthopaedic Journal*. 2001; 12:44.
8. Irrgang JJ, Piva SR, Westerheide K, Childs JD, Bouzabar F, Fitzgerald GK, Fu FH, Harner CD. Long-term clinical outcome following anterior cruciate ligament (ACL) reconstruction with allograft versus autograft. *Pittsburgh Orthopaedic Journal*. 2001; 12:44-45.
9. Childs JD, Fitzgerald GK, Irrgang JJ, Sparto PJ, Bizzini M, Towers JD, Harner CD. Gait adaptations in individuals with knee osteoarthritis. *Pittsburgh Orthopaedic Journal*. 2001; 12:47-48.
10. Baum E, Irrgang JJ, Childs JD, Piva SR, Fitzgerald GK. Measurement of anterior laxity of the knee: A comparison of two arthrometers. *Pittsburgh Orthopaedic Journal*. 2001; 12:49.
11. Piva SR, Erhard RE, Childs JD, Hicks G, Al-Abdulmohsin H. Reliability of measuring iliac crest level in the standing and in sitting position using a new measurement device. *J Man Manip Ther*. 2002; 10(3):164-165.
12. Childs JD, Piva SR, Erhard RE. Side-to-side weight-bearing asymmetry in patients with low back pain. *J Man Manip Ther*. 2002; 10(3):156-157.
13. Irrgang JJ, Childs JD, Sparto PJ, Fitzgerald GK, Bizzini M. Alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis. *Arthritis and Rheumatism*. 2002; 46(9) (Supplement):S143.
14. Baum E, Irrgang JJ, Childs JD, Piva SR, Fitzgerald GK. Measurement of anterior laxity of the knee: A comparison of two arthrometers. *Proceedings of the 70th Annual American Academy of Orthopaedic Surgeons Meeting*. 2003.
15. Childs JD, Sparto PJ, Fitzgerald GK, Bizzini M. Alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis. *J Orthop Sports Phys Ther*. 2002; 33(2):A-11-12.
16. Childs JD, Sparto PJ, Fitzgerald GK, Bizzini M. The relationship between alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis and self-report and performance-based measures of function and disability. *J Orthop Sports Phys Ther*. 2003; 33(2):A-11.
17. Childs JD, 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(2):A-20-21.
18. Bizzini M, Childs JD, Delitto A, Piva SR. Systematic review of the quality of randomized controlled trials for Patellofemoral Pain Syndrome: Part I. *J Orthop Sports Phys Ther*. 2003; 33(2):A-9-10.
19. Childs JD, Piva SR, Bizzini M, Delitto A. Systematic review of the quality of randomized controlled trials for Patellofemoral Pain Syndrome - Part II: Implications for the conduct of clinical trials. *J Orthop Sports Phys Ther*. 2003; 33(2):A-10.
20. Fritz JM, Whitman JM, Flynn TW, Wainner RS, Childs JD. Clinical factors related to the failure of individuals with low back pain to improve with spinal manipulation. *J Orthop Sports Phys Ther*. 2003; 33(2):A-4-5.
21. Childs JD, Sparto PJ, Fitzgerald GK, Bizzini M, Irrgang JJ. Alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis. *Proceedings of the 1st Annual 59th Medical Wing Wilford Hall Medical Center Research Appreciation Day*. 2003; 19-0.
22. Childs JD, Irrgang JJ, Sparto PJ, Fitzgerald GK, Bizzini M. Alterations in lower extremity movement and muscle activation patterns during a step task in individuals with knee osteoarthritis. *Phys Ther*. 2003; 83(5):<http://www.ptjournal.org> (PL-RR-160-F).
23. Childs JD, Sparto PJ, Fitzgerald GK, Bizzini M. Alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis. *Proceedings of the 14th International Congress of the World Confederation for Physical Therapy*. 2003.
24. Childs JD, Irrgang JJ, Sparto PJ, Fitzgerald GK, Bizzini M. The relationship between alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis and self-report and performance-based measures of function and disability. *Proceedings of the 14th International Congress of the World Confederation for Physical Therapy*. 2003.

25. Whitman JM, Flynn TW, Fritz JM, Wainner RS, Childs JD. Clinical factors identifying individuals who improve dramatically and who fail to improve with lumbo-pelvic region manipulation. Proceedings of the 6th Annual Force Health Protection Conference. 2003.
26. Childs JD, Fritz JM, Flynn TW, Irrgang JJ, Delitto A, Johnson KK, Majkowski GR. Validation of a clinical prediction rule to identify patients with low back pain likely to benefit from spinal manipulation: A randomized clinical trial. *J Man Manip Ther*. 2003; 11(3):161.
27. Childs JD, 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 Man Manip Ther*. 2003; 11(3):168-169.
28. Piva SR, Erhard RE, Childs JD, Browder DA. Inter-tester reliability of measurements of passive intervertebral and active movements of the cervical spine. *J Man Manip Ther*. 2003; 11(3):165-166.
29. Whitman J, Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs JD, Bennett A. Manual physical therapy interventions and a body weight supported treadmill ambulation program for patients with lumbar spinal stenosis. *J Man Manip Ther*. 2003; 11(3):168.
30. Childs JD, Flynn TW, Fritz JM. Audible pop from high-velocity thrust manipulation and outcome in patients with low back pain. *J Orthop Sports Phys Ther*. 2004; 34(1):A-3-4.
31. Childs JD, Piva SR, Fritz JM. Validation of the psychometric properties of the physical impairment index in patients with chronic low back pain. *J Orthop Sports Phys Ther*. 2004; 34(1):A-4.
32. Childs JD, Piva SR, Fritz JM. Psychometric properties of the functional rating index in patients with low back pain. *J Orthop Sports Phys Ther*. 2004; 34(1):A-5.
33. Childs JD, Piva SR, Fritz JM. Responsiveness of the numeric pain rating scale in patients with low back pain. *J Orthop Sports Phys Ther*. 2004; 34(1):A-5.
34. Fritz JM, Childs JD, Flynn TW, Whitman JM, Wainner RS. Segmental mobility testing in the classification of low back pain. *J Orthop Sports Phys Ther*. 2004; 34(1):A-7.
35. Whitman JM, Fritz JM, Childs JD, Flynn TW, Wainner RS, Ryder M, Gill H, Garber MB, Atkins D. Measurement properties of outcomes tools for subjects with lumbar spinal stenosis. *J Orthop Sports Phys Ther*. 2004; 34(1):A-7-8.
36. Childs JD, Fritz JM, Flynn TW, Irrgang JJ, Delitto A, Johnson KK, Majkowski GR. Validation of a clinical prediction rule to identify patients with low back pain likely to benefit from spinal manipulation: A randomized clinical trial. *J Orthop Sports Phys Ther*. 2004; 34(1):A-9-10.
37. Childs JD, Flynn TW, Fritz JM, Whitman JM. Clinician experience and patient outcome from spinal manipulation. *J Orthop Sports Phys Ther*. 2004; 34(1):A-10.
38. Whitman JM, Flynn TW, Wainner RS, Garber MB, Ryder M, Gill H, Atkins D, Childs JD, Fritz JM, Bennett A. A comparison between two physical therapy treatment programs for subjects with lumbar spinal stenosis: A randomized clinical trial. Proceedings of the 8th International Congress of the International Federation of Orthopaedic Manipulative Therapists. 2004.
39. Childs JD, Fritz JM, Flynn TW, Irrgang JJ, Johnson KK, Majkowski GR, Delitto A. Which patients with low back pain benefit from spinal manipulation? Validation of a clinical prediction rule. Proceedings of the 2nd Annual 59th Medical Wing Wilford Hall Medical Center Research Appreciation Day. 2004; 1-0.
40. Childs JD, Fritz JM, Flynn TW, Irrgang JJ, Johnson KK, Majkowski GR, Delitto A. Which patients with low back pain benefit from spinal manipulation? Validation of a clinical prediction rule. Proceedings of the Annual Conference of the Texas Physical Therapy Association. 2004.
41. Miltenberger CE, Teyhen DS, Deiters HM, Del Toro YM, Pulliam JN, Childs JD, Boyles RE, Flynn TW. Does ultrasound biofeedback improve performance of the abdominal drawing-in maneuver in patients with chronic low back pain? Proceedings of the Annual Conference of the Texas Physical Therapy Association. 2004.
42. Childs JD, Fritz JM, Flynn TW, Irrgang JJ, Delitto A, Johnson KK, Majkowski GR. Which patients with low back pain benefit from spinal manipulation? Proceedings of the Alberta International Forum VII for Primary Care Research in Low Back Pain. 2004.
43. Fritz JM, Childs JD, Whitman JM. The impact of recurrency on fear-avoidance beliefs and outcomes of physical therapy treatment in a cohort of patients with low back pain. Proceedings of the Alberta International Forum VII for Primary Care Research in Low Back Pain. 2004.

44. Childs JD, Fritz JM, Flynn TW. Risks associated with the failure to offer manipulation for patients with low back pain. *J Man Manip Ther.* 2004; 12(3):161-162.
45. Cleland JA, Childs JD, McRae M, Palmer JA, Stowell T. Immediate effects of throacic spine manipulation in patients with neck pain: A randomized clinical trial. *J Man Manip Ther.* 2004; 12(3):162.
46. Fritz JM, Childs JD, Whitman JM. Lumbar spine segmental mobility assessment: An examination of validity for determining intervention strategies in patients with low back pain. *Proceedings of the 5th Interdisciplinary World Congress on Low Back and Pelvic Pain.* 2004.
47. Childs JD, Fritz JM, Flynn TW, Irrgang JJ, Johnson KK, Majkowski GR, Delitto A. Conflicting evidence exists regarding the effectiveness of spinal manipulation for patients with low back pain. *Proceedings of the 5th Interdisciplinary World Congress on Low Back and Pelvic Pain.* 2004.
48. Whitman JM, Fritz JM, Childs JD. The influence of experience and specialty certifications on clinical outcomes for patients with low back pain. *Proceedings of the 5th Interdisciplinary World Congress on Low Back and Pelvic Pain.* 2004.
49. Miltenberger CE, Teyhen DS, Deiters HM, Del Toro YM, Pulliam JN, Childs JD, Boyles RE, Flynn TW. Does ultrasound biofeedback improve performance of the abdominal drawing-in maneuver in patients with chronic low back pain? *J Orthop Sports Phys Ther.* 2005; 35(1):A-11.
50. Childs JD, Whitman JM, Pugia ML, Sizer PS, Flynn TW, Delitto A. Competency in musculoskeletal medicine: Physical therapists vs. physicians. *J Orthop Sports Phys Ther.* 2005; 35(1):A-77.
51. Teyhen DS, Flynn TW, Childs JD, Abraham LD. Lumbar spine kinematics among patients likely to benefit from a lumbar stabilization exercise program. *J Orthop Sports Phys Ther.* 2005; 35(1):A-12-13.
52. Young BA, Walker MJ, Strunce JB, Boyles R, Whitman JM, Childs JD. Responsiveness of the Neck Disability Index in patients with neck disorders. *J Orthop Sports Phys Ther.* 2005; 35(1):A-10-11.
53. Cleland JA, Childs JD, Palmer JA, McRae M. Slump stretching in the management of non-radicular low back pain: A pilot clinical trial. *J Orthop Sports Phys Ther.* 2005; 35(1):A-11.
54. Whitman JM, Flynn TW, Wainner RS, Fritz JM, Childs JD, Garber MB, Ryder M, Gill H, Bennett A. A comparison between two physical therapy treatment programs for subjects with lumbar spinal stenosis: A randomized clinical trial. *J Orthop Sports Phys Ther.* 2005; 35(1):A-9.
55. George SZ, Fritz JM, Childs JD. Sex differences in response to intervention for low back pain. *J Orthop Sports Phys Ther.* 2005; 35(1):A-58.
56. Teyhen DS, Flynn TW, Childs JD, Kuklo TR, Rosner MK, Polly DW, Abraham LD. Identifying kinematic movement patterns in patients with lumbar segmental instability. *Proceedings of the International Society for the Study of the Lumbar Spine.*
<http://abstracts.spinejournal.com/pt/re/spineabs/toc.00152232-200500030-00000.htm;jsessionid=CHULAXOD1uCoMRyMKOQLm29L2cbWwcAR6NTFyDoqHmTOVQ5zPFO4!-1826517603!-949856031!9001!-1>. 2005; #11.
57. Teyhen DS, Flynn TW, Childs JD, Kuklo TR, Rosner MK, Polly DW, Abraham LD. Description of lumbar spine kinematics: A novel approach using digital fluoroscopic video. *Proceedings of the International Society for the Study of the Lumbar Spine.*
<http://abstracts.spinejournal.com/pt/re/spineabs/toc.00152232-200500030-00000.htm;jsessionid=CHULAXOD1uCoMRyMKOQLm29L2cbWwcAR6NTFyDoqHmTOVQ5zPFO4!-1826517603!-949856031!9001!-1>. 2005; #11.
58. Teyhen DS; Rieger JL; Westrick RB; Miller AC; Molloy JM; Wainner RS; Childs JD. Ultrasound imaging of the deep abdominal muscles during core stabilization exercises. *Proceedings of the Force Health Protection Conference.* 2005.
59. Cleland JA, Fritz JM, Whitman JM, Childs JD, Palmer JA. The use of a lumbar spine manipulation technique in patients who satisfy a clinical prediction rule: A case series. *J Man Manip Ther.* 2005; 13(3):179.
60. Whitman JM, Flynn TW, Fritz JM, Wainner RS, Childs JD, Garber MB, Ryder M, Gill H, Atkins D, Bennett A. Associations between clinical examination findings and outcomes for patients with lumbar spinal stenosis who were treated with physical therapy interventions. *J Man Manip Ther.* 2005; 13(3):188.

61. Teyhen DS; Rieger JL; Westrick RB; Miller AC; Molloy JM; Wainner RS; Childs JD. Ultrasound imaging of the deep abdominal muscles during core stabilization exercises. Proceedings of the Annual Conference of the Texas Physical Therapy Association. 2005.
62. Teyhen D, Rieger J, Westrick R, Miller A, Molloy J, Wainner R, Childs JD. Ultrasound imaging of the deep abdominal muscles during core stabilization exercises. J Orthop Sports Phys Ther. 2006; 36(1):A16.
63. Piva SR, Fitzgerald GK, Irrgang JJ, Jones S, Hando B, Childs JD. Reliability of measures of impairments associated with patellofemoral pain syndrome. J Orthop Sports Phys Ther. 2006; 36(1):A3.
64. Piva SR, Fitzgerald GK, Irrgang JJ, Fritz JM, Childs JD, Delitto A. Association between impairments and function in individuals with patellofemoral pain syndrome. J Orthop Sports Phys Ther. 2006; 36(1):A3.
65. Whittaker JL, Whitman JM, Stokes M, Hides JA, Childs JD, Teyhen DS. Professional issues associated with the use of rehabilitative ultrasound imaging by physical therapists. J Orthop Sports Phys Ther. 2006; 36(8):A5.
66. Childs JD, Fritz J, Flynn TW. Clinical prediction rules: Application to rehabilitative ultrasound imaging. J Orthop Sports Phys Ther. J Orthop Sports Phys Ther. 2006; 36(8):A13.
67. Thomas R, Teyhen DS, Roberts C, Gray B, Robbins T, Childs JD, Molloy J. Physical activity and injury prevention needs assessment among US Army soldiers. Proceedings of the Annual Force Health Protection Conference, Albuquerque, NM, Aug 2006.
68. Raney N, Teyhen DS, Childs JD. Changes in lateral abdominal muscle function after spinal manipulation: A case series. J Man Manip Ther. 2006; 14(3):177.
69. Whitman JM, Cleland JA, Bieniek ML, Magel JM, Mintken PE, Keirns MA, Childs JD. Outcomes achieved by patients status post ankle sprain treated with manual physical therapy and exercise interventions: A preliminary report. J Man Manip Ther. 2006; 14(3):184.
70. Cleland JA, Glynn PE, Whitman JM, Eberhart SL, MacDonald C, Childs JD. Short-term response of thoracic spine thrust versus non-thrust manipulation in patients with mechanical neck pain: Preliminary analysis of a randomized clinical trial. J Manip Ther. 2006; 14(3):172.
71. Cleland JA, Childs JD, Fritz JM, Whitman JM, Eberhart SL. A clinical prediction rule for classifying patients with neck pain who demonstrate short-term improvement with thoracic spine thrust manipulation. J Manip Ther. 2006; 14(3):171-2.
72. Teyhen DS, Thomas RM, Darst CC, Gray BE, Robbins TL, Childs JD, McPoil TM, Molloy JM. Awareness and compliance with recommended physical activity and running shoe guidelines among American Soldiers. Proceedings of the Annual Conference of the Texas Physical Therapy Association. 2006.
73. Sutlive TG, Mabry LM, Easterling EJ, Durbin JD, Hanson SL, Wainner RS, Childs JD. Comparison of short-term response to two spinal manipulation techniques for patients with low back pain. Proceedings of the Annual Conference of the Texas Physical Therapy Association. 2006.
74. Cleland J, Glynn P, Whitman JM, Eberhart SL, MacDonald C, Childs JD. Short-term response of thoracic spine thrust versus nonthrust manipulation in patients with mechanical neck pain: A randomized clinical trial. J Orthop Sports Phys Ther. 2007; 37(1):A10.
75. Sutlive TG, Mabry LM, Easterling EJ, Durbin JD, Hanson SL, Wainner RS, Childs JD. Comparison of short-term response to 2 spinal manipulation techniques for patients with low back pain. J Orthop Sports Phys Ther. 2007; 37(1):A11.
76. Browder D, Childs JD, Cleland J, Fritz J. Effectiveness of an extension-oriented treatment approach in a subgroup of patients with low back pain: A randomized clinical trial. J Orthop Sports Phys Ther. 2007; 37(1):A12.
77. George SZ, Fritz JM, Childs JD. Elevated fear-avoidance beliefs for subjects participating in physical therapy clinical trials. J Orthop Sports Phys Ther. 2007; 37(1):A28.
78. Teyhen DS, Thomas RM, Darst CC, Gray BE, Robbins TL, Childs JD, McPoil T, Molloy JM. Awareness and compliance with recommended physical activity and running shoe guidelines among American soldiers. J Orthop Sports Phys Ther. 2007; 37(1):A75.
79. George SZ, Childs JD, Teyhen DS, Wu SS, Wright AC, Dugan JL, Robinson ME. Rationale, design, and protocol for the prevention of low back pain in the military (POLM) trial (NCT00373009). Proceedings of the 10th Annual Force Health Protection Conference. 2007.

80. Sutlive TG, Lopez HP, Schnitker DE, Yawn SE, Halle RJ, Mansfield LT, Boyles RE, Childs JD. Development of a clinical prediction rule for diagnosing hip osteoarthritis in patients with unilateral hip pain. *J Orthop Sports Phys Ther*. 2008; 38(1):A13.
81. Raney NH, Petersen EJ, Smith TA, Cowan JE, Rendeiro DG, Deyle GD, Childs JD. A clinical prediction rule for classifying patients with neck pain who demonstrate short-term improvement with cervical traction and exercise. *J Orthop Sports Phys Ther*. 2008; 38(1):A25.
82. Teyhen DS, Williamson JN, Carlson NH, Suttles ST, O'Laughlin SJ, Whittaker JL, Goffar SL, Childs JD. Lateral abdominal muscle behavior in subjects with lumbopelvic pain during the active straight leg raise test. *J Orthop Sports Phys Ther*. 2008; 38(1):A31.
83. Teyhen DS, Mooney LN, Dolbeer JA, Baker SE, Molloy JM, Whittaker J, Childs JD. Lateral abdominal muscle behavior in subjects with lumbopelvic pain during the abdominal drawing-in maneuver. *J Orthop Sports Phys Ther*. 2008; 38(1):A32.
84. Davenport TE, Cleland JA, Lewthwaite R, Yamada KA, Childs JD, Fritz JM, Kulig K. Responsiveness of the low-back activity confidence scale in a subgroup of patients with lower back pain: Preliminary analysis. *J Orthop Sports Phys Ther*. 2008; 38(1):A68.

INVITED PUBLICATIONS/BOOK CHAPTERS/OTHER:

1. Childs JD. The potential viability of outsourcing physical therapy services: a retrospective business case analysis. Air Force Medical Service Library. 2000; <https://afmskc.satx.disa.mil>.
2. Buck P, Childs JD et al. Expert Field Medical Badge instructor guide (Educational CD-ROM). 2nd ed. Wichita Falls, TX: 384th Training Squadron (Sheppard Air Force Base), 2000.
3. Childs JD, Irrgang JJ. Musculoskeletal Q&A: Why not apply heat after an acute injury? *Journal of Musculoskeletal Medicine*. 2002; Jul:264.
4. Childs JD, Irrgang JJ. The language of exercise and rehabilitation. In: DeLee JC, Drez D, Miller MD, editors. *Orthopaedic Sports Medicine: Principles and Practice*. Philadelphia: Saunders, Inc., 2003:319-335.
5. Childs JD, Irrgang JJ. Musculoskeletal Q&A: Why are ice and other cold modalities advocated for the initial treatment of patients with acute injuries, such as sprains, strains, and fractures? *Journal of Musculoskeletal Medicine*. 2003; Feb:56.
6. Childs JD, Whitman JM, Fritz JM, Piva SR, Young B. The lower cervical spine. In: *Physical Therapy for the Cervical Spine and Temporomandibular Joint, Home Study Course 13.3*, Orthopaedic Section, American Physical Therapy Association, (Stiell, Wells et al. 2001), WI, 2003; 13.3(1):8-63.
7. Childs JD, Greenman PE. Invited clinical commentary: Risks and decision-making with cervical spine mobilization/manipulation. In: *Physical Therapy for the Cervical Spine and Temporomandibular Joint, Home Study Course 13.3*, Orthopaedic Section, American Physical Therapy Association, La Crosse, WI, 2003: 13.3(1):1-7.
8. Childs JD. Validation of a clinical prediction rule to identify patients with low back pain likely to benefit from spinal manipulation: A randomized clinical trial. School of Health and Rehabilitation Sciences, University of Pittsburgh, 2003. (Dissertation archived at <http://etd.library.pitt.edu/ETD/available/etd-08222003-013408/>).
9. Childs JD. Case reports: Can we improve? *J Orthop Sports Phys Ther*. 2004; 34(2): 44-46. [PMID: 15106663](https://pubmed.ncbi.nlm.nih.gov/15106663/).
10. Childs JD, Irrgang JJ. The use of cold and heat after injury: Evidence and myth. *American College of Sports Medicine's Certified News*. 2004; 14(2): 1-5. http://www.acsm.org/certification/pdf/cnews14_2.pdf.
11. Childs JD, Flynn TW. Spinal manipulation for low back pain, Comment on: Spinal manipulative therapy for low back pain. A meta-analysis of effectiveness relative to other therapies. *Ann Int Med*. 2004; 140(8): 665. [PMID: 15096345](https://pubmed.ncbi.nlm.nih.gov/15096345/).
12. Childs JD. Author's response: More on writing good case reports. Reply to Summers JB and Kaminski JM. *J Orthop Sports Phys Ther*. 2004; 34(7): 410. Included with [PMID: 15296369](https://pubmed.ncbi.nlm.nih.gov/15296369/).
13. Childs JD. Defining Air Force Physical Medicine: An offensive vision for the future. *Physical Medicine Newsletter*. 2004; 1(1): 7-12. <https://kx.afms.mil/therapy>
14. Fritz JM, Whitman JM, Childs JD. Author's response: The influence of experience and specialty certifications on clinical outcomes for patients with low back pain treated within a standardized

- physical therapy management program. Reply to Resnik L. [invited commentary] J Orthop Sports Phys Ther. 2004; 34(11): 674-675. Included with [PMID: 15609487](#).
15. [Childs JD](#). Author's response: Proposal of a classification system for patients with neck pain. Reply to Sterling M. [invited commentary] J Orthop Sports Phys Ther. 2004; 34(11): 699-700. Included with [PMID: 15609489](#).
 16. [Childs JD](#). Summaries for patients: Identifying patients with low back pain who are likely to benefit from spinal manipulation. Ann Int Med. 2004; 141(12): 1-39. [PMID: 15611484](#).
 17. [Childs JD](#), Fritz JM, Flynn TW. Sub-grouping patients with back pain: More than trivial effects and patient expectations. Reply to Deyo R. [invited editorial] Ann Int Med. 2004; 141(12): 957. [PMID: 15611493](#).
 18. [Childs JD](#), Fritz JM, Flynn TW. Treatments for Back Pain. Ann Int Med. 2005; 142(10): 874. [PMID: 15897545](#).
 19. Cleland JA, [Childs JD](#). Does the manual therapy technique matter? Canadian Orthopaedic Division Review. 2005; Sep/Oct: 27-28 (www.orthodiv.org).
 20. [Childs JD](#), Whitman JM. Advancing physical therapy practice: The accountable practitioner. J Orthop Sports Phys Ther. 2005; 35(10): 624-627. [PMID: 16294982](#)
 21. [Childs JD](#). Author's response: Can a spine manipulation clinical prediction rule improve decision-making for patients with low back pain?. Reply to Resch KL. [commentary] Focus on Alternative and Complementary Therapies. 2005; 10(4): 310.
 22. [Childs JD](#), Cleland JA. Author's response: Clinical prediction rules. Reply to Maher C. [letter] Phys Ther. 2006; 86(5): 759-60. Included with [PMID: 16649899](#)
 23. Cleland JA, Markowski AM, [Childs JD](#). Evidence-based evaluation and treatment for the cervical spine. In: Current Concepts in Orthopaedic Physical Therapy, Independent Study Course 16.2, Orthopaedic Section, American Physical Therapy Association, La Crosse, WI, 2006: 16.2(???): ???-???
 24. [Childs JD](#), Benz LN, Wainner RS. Translating clinical research to clinical practice: How to hit a moving target or "Evidence in Motion". Canadian Orthopaedic Division Review. 2006; Sept/Oct: 23-25 (www.orthodiv.org).
 25. Wainner RS, [Childs JD](#), Benz LN, Flynn TW. Evidence-based practice: Passing boomer fad or health care reality. Impact. 2006; 3(10):29-31.
 26. Whitman JM, [Childs JD](#), Flynn TW, Wainner RS, Fritz JM. Author's response: A comparison between two physical therapy treatment programs for patients with lumbar spinal stenosis: A randomized clinical trial. Reply to Maher C. [letter] Spine. 2007; 32(7):833-4. [PMID: 17414923](#).
 27. Flynn TW, Wainner RS, Whitman JM, [Childs JD](#). The immediate effect of thoracic spine manipulation on cervical range of motion and pain in patients with a primary complaint of neck pain-a technical report. Canadian Orthopaedic Division Review. 2007; Mar/Apr: 31-36 (www.orthodiv.org).
 28. [Childs JD](#). Rapid response: we are still not listening. Phys Ther. 2007; 87(11): 1558. [PMID: 17974575](#). Reply to Wong RA, Schumann B, Townsend R, Phelps CA. A survey of therapeutic ultrasound use by physical therapists who are orthopaedic certified specialists. Phys Ther. 2007; 87(8): 986-944. Included with [PMID: 17553923](#) (<http://www.ptjournal.org/cgi/content/full/87/11/1558?etoc>).
 29. Whitman JM, [Childs JD](#), Flynn TW, Wainner RS, Fritz JM, Flynn TW. In response: A comparison between two physical therapy treatment programs for patients with lumbar spinal stenosis: A randomized clinical trial. Reply to Maher C. [editorial] Spine. 2007; 32(7): 833-834. [PMID: 17047542](#).
 30. Teyhen DS, [Childs JD](#). Rehabilitative ultrasound imaging: When is a picture necessary? J Orthop Sports Phys Ther. 2007; 37(10): 579-580. [PMID: 17970404](#).
 31. Flynn TW, [Childs JD](#), Bell S, Magel JS, Rowe RH, Plock H. Manual physical therapy: We speak gibberish. J Orthop Sports Phys Ther. 2008; 38(3): 97-98. [PMID: ???](#).

MEDIA/PRESS COVERAGE

1. Delitto A, [Childs JD](#). Abdominal belts put to the test. Consumer Medical Report: Pittsburgh, PA: WPXI Television, May 2002.

2. Wright K. Interview with an item writer. National Physical Therapy Examination Item Writer Newsletter. 2003; 1(3):2-3.
3. Trocano L. On the front lines in the battle against back pain. FACETS (publication of the University of Pittsburgh School of Health and Rehabilitation Sciences), Pittsburgh, PA, Fall 2003. Available at http://www.shrs.pitt.edu/facets/Fall%5F2003/alumni_students.pdf.
4. Hitt E. Muscle activation patterns in knee osteoarthritis may contribute to disease progression (A DGRReview of Alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis) [Doctor's Guide web site]. 2003; Dec 30. Available at: <http://www.docguide.com>.
5. Chillstrom M. Back pain becomes Childs' play. Air Force News (AFNEWS 123006395). 2004; Jan 16. Reprinted in a variety of media outlets. Available at <http://www.af.mil/stories/story.asp?storyID=123006395>.
6. Kinkade M. The Body Mender. Airman Magazine (Airman Profile). 2004; May: 43. Available at <http://www.af.mil/news/airman/0504/profile.shtml>.
7. Kinkade M. Back up Plan: Research focuses on preventing, treating, and predicting lower back pain. Airman Magazine (Airman Consumer). 2004; Nov: 14-15. Available at <http://www.af.mil/news/airman/1104/consumer.shtml>.
8. Tumiel C. Study supports new approach to back pain. San Antonio Express-News. 2004; 140(77): 1B-4B. Available at <http://www.mysanantonio.com/news/medical/stories/MYSA122104.backpain.2ddeb1a7.html>.
9. APTA. Clinical prediction rule identifies patients with low back pain who will benefit from spinal manipulation. American Physical Therapy Association website. 2004; Dec 21. Reprinted in a variety of media outlets. Available at http://apta.org/Foundation/news/spinal_manipulation.
10. McCook A. Symptoms predict when spinal manipulation may work. Reuters Health. 2004; Dec 29. Reprinted in a variety of media outlets. Available at <http://www.reuters.com/newsArticle.jhtml?type=healthNews&storyID=7200679>.
11. Certain factors identify patients with low back pain most likely to benefit from spinal manipulation. MD Consult. 2004; Dec 21. Available at <http://home.mdconsult.com/das/stat/view/43573169-2/itwj?nid=153125&sid=327751665>.
12. Vierville A. What type of treatments do back pain patients benefit from the most? KSAT 12 News. 2004; Dec 21.
13. Rigby W. Spinal manipulation able to help some back pain sufferers. KENS 5 Eyewitness News. 2005; Jan 12. Reprinted in a variety of media outlets (CBS "Up to the Minute" national news program). Available at <http://www.mysanantonio.com/news/kens5/stories/MYSA011205.kens.backpain.752394.html>.
14. Forsyth J. Research benefits back pain sufferers. WOAI Radio. 2005; Jan 12. Available at <http://woai.com>.
15. Funk D. Back in action: Spinal manipulation therapy may ease your aching back: Hands-on approach to back pain brings relief. AirForceTimes. 2005; Feb 14: 38. Available at <http://www.airforcetimes.com/story.php?f=0-AIRPAPER-561030.php>.
16. Foundation for Physical Therapy. Foundation dollars work. PT Magazine. 2005; 13(3):12.
17. Foundation for Physical Therapy. Profile of excellence, Phys Ther. 2005; 85(3):288.
18. A quick fix for a bad back. More. 2005; Jun: 144.
19. Back adjustments: Friend or foe? Health. 2005; Jul/Aug: 56-57.
20. Wilson E. Study targets prevention of low back pain. Fort Sam Houston News Leader. 2006; 38(19):1. Available at <http://www.samhouston.army.mil/pao/2006.asp>. Reprinted at <http://www4.army.mil/news/article.php?story=9004>.
21. Wilson E. Army PTs benefit from technology, international knowledge. Fort Sam Houston News Leader. 2006; 38(21):14. Available at <http://www.samhouston.army.mil/pao/2006.asp>.
22. American Physical Therapy Association (APTA). Study shows patients with lumbar spinal stenosis show improvement with physical therapy. APTA Website. 2006; Available at <http://www.apta.org/AM/Template.cfm?Template=/CM/HTMLDisplay.cfm&ContentID=34546>.
23. Federwisch A. Slice through cervicalgia with a practical approach. Today in PT. 2007; June 11: 84-87.
24. Foster JB. Classification schemes take narrower approach to back pain. Biomechanics; 2007; July, 14(7): 49-54.

PRESENTATIONS AND POSTERS AT SCIENTIFIC MEETINGS:

1. Childs JD, Gantt C, Higgins D, Papazis J, Franklin R, Metzger T, Underwood FB (Underwood). "The effects of repeated bouts of backward walking on physiologic efficiency". Annual Conference of the Texas Physical Therapy Association, Houston, TX, Oct 1996.
2. Childs JD, Fitzgerald GK, Irrgang JJ, Sparto PJ, Bizzini M (Childs). "Gait adaptations in individuals with knee osteoarthritis. University of Pittsburgh Science 2001: A Research Odyssey. Pittsburgh, PA, Sep 2001.
3. Piva SR, Erhard RE, Childs JD, Hicks G, Al-Abdulmohsin H (Piva). "Reliability of measuring iliac crest height in standing and in sitting position using a new measurement device". 4th Interdisciplinary World Congress on Low Back and Pelvic Pain, Montreal, Canada, Nov 2001.
4. Sparto PJ, Fritz JM, Childs JD, Pillai G, Delitto A (Sparto). "Reliability of Fitts' law for quantifying the control of lumbar spine motion in subjects with and without a history of chronic low back pain". Combined Sections Meeting of the American Physical Therapy Association, Boston, MA, Feb 2002.
5. Whitman JM, Childs JD (Whitman/Childs). "The use of manipulation in a patient with an ankle sprain not responding to conventional management: A case report". Combined Sections Meeting of the American Physical Therapy Association, Boston, MA, Feb 2002.
6. Fitzgerald GK, Childs JD, Ridge TM, Irrgang JJ (Ridge). "Coordination and agility training in individuals with knee osteoarthritis: A case report". Combined Sections Meeting of the American Physical Therapy Association, Boston, MA, Feb 2002.
7. Piva SR, Erhard RE, Childs JD, Hicks G, Al-Abdulmohsin H (Piva). Reliability of measuring iliac crest level in the standing and in sitting position using a new measurement device. 8th Annual Meeting of the American Academy of Orthopaedic Manual Physical Therapists, Orlando, FL, Oct 2002.
8. Childs JD, Piva SR, Erhard RE, Hicks GE (Childs). Side-to-side weight-bearing asymmetry in patients with low back pain. 8th Annual Meeting of the American Academy of Orthopaedic Manual Physical Therapists, Orlando, FL, Oct 2002.
9. Irrgang JJ, Childs JD, Sparto PJ, Fitzgerald GK, Bizzini M (Fitzgerald). Alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis. 66th Annual Scientific Meeting of the American College of Rheumatology, New Orleans, LA, Oct 2002.
10. Childs JD, Sparto PJ, Fitzgerald GK, Bizzini M (Sparto). Alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis. Combined Sections Meeting of the American Physical Therapy Association, Tampa, FL, Feb 2003.
11. Childs JD, Irrgang JJ, Sparto PJ, Fitzgerald GK, Bizzini M (Childs). The relationship between alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis and self-report and performance-based measures of function and disability. Combined Sections Meeting of the American Physical Therapy Association, Tampa, FL, Feb 2003.
12. Childs JD, Fritz JM, Piva SR, Erhard RE (Childs). Clinical decision-making in the identification of patients likely to benefit from spinal manipulation: A traditional versus an evidence-based approach. Combined Sections Meeting of the American Physical Therapy Association, Tampa, FL, Feb 2003.
13. Bizzini M, Childs JD, Delitto A, Piva SR (Piva). Systematic review of the quality of randomized controlled trials for Patellofemoral Pain Syndrome: Part I. Combined Sections Meeting of the American Physical Therapy Association, Tampa, FL, Feb 2003.
14. Childs JD, Piva SR, Bizzini M, Delitto A (Childs). Systematic review of the quality of randomized controlled trials for Patellofemoral Pain Syndrome - Part II: Implications for the conduct of clinical trials. Combined Sections Meeting of the American Physical Therapy Association, Tampa, FL, Feb 2003.
15. Fritz JM, Whitman JM, Flynn TW, Wainner RS, Childs JD (Fritz). Clinical factors related to the failure of individuals with low back pain to improve with spinal manipulation. Combined Sections Meeting of the American Physical Therapy Association, Tampa, FL, Feb 2003.

16. Childs JD, Sparto PJ, Fitzgerald GK, Bizzini M, Irrgang JJ (Childs). Alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis. 1st Annual 59th Medical Wing Research Appreciation Day, San Antonio, TX, May 2003.
17. Childs JD, Sparto PJ, Fitzgerald GK, Bizzini M (Bizzini). Alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis. 14th International Congress of the World Confederation for Physical Therapy, Barcelona, Spain, Jun 2003.
18. Childs JD, Irrgang JJ, Sparto PJ, Fitzgerald GK, Bizzini M (Bizzini). The relationship between alterations in lower extremity movement and muscle activation patterns in individuals with knee osteoarthritis and self-report and performance-based measures of function and disability. 14th International Congress of the World Confederation for Physical Therapy, Barcelona, Spain, Jun 2003.
19. Childs JD, Irrgang JJ, Sparto PJ, Fitzgerald GK, Bizzini M (Childs). Alterations in lower extremity movement and muscle activation patterns during a step task in individuals with knee osteoarthritis. Annual Meeting of the American Physical Therapy Association, Washington DC, Jun 2003.
20. Whitman JM, Flynn TW, Fritz JM, Wainner RS, Childs JD (Whitman). Clinical factors identifying individuals who improve dramatically and who fail to improve with lumbo-pelvic region manipulation. 6th Annual Force Health Protection Conference, Albuquerque, NM, Aug 2003.
21. Childs JD, Fritz JM, Flynn TW, Irrgang JJ, Delitto A, Johnson KK, Majkowski GR (Childs). Validation of a clinical prediction rule to identify patients with low back pain likely to benefit from spinal manipulation: A randomized clinical trial. 9th Annual Meeting of the American Academy of Orthopaedic Manual Physical Therapists, Reno, NV, Oct 2003.
22. Childs JD, Piva SR, Erhard RE (Childs). Immediate improvements in side-to-side weight-bearing and iliac crest symmetry after manipulation in patients with low back pain. 9th Annual Meeting of the American Academy of Orthopaedic Manual Physical Therapists, Reno, NV, Oct 2003.
23. Piva SR, Erhard RE, Childs JD, Browder DA (Browder). Inter-tester reliability of measurements of passive intervertebral and active movements of the cervical spine. 9th Annual Meeting of the American Academy of Orthopaedic Manual Physical Therapists, Reno, NV, Oct 2003.
24. Whitman J, Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs JD, Bennett A (Whitman). Manual physical therapy interventions and a body weight supported treadmill ambulation program for patients with lumbar spinal stenosis. 9th Annual Meeting of the American Academy of Orthopaedic Manual Physical Therapists, Reno, NV, Oct 2003.
25. Childs JD, Flynn TW, Fritz JM (Flynn). Audible pop from high-velocity thrust manipulation and outcome in patients with low back pain. Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb 2004.
26. Childs JD, Piva SR, Fritz JM (Fritz). Validation of the psychometric properties of the physical impairment index in patients with chronic low back pain. Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb 2004.
27. Childs JD, Piva SR, Fritz JM (Childs). Psychometric properties of the functional rating index in patients with low back pain. Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb 2004.
28. Childs JD, Piva SR, Fritz JM (Childs). Responsiveness of the numeric pain rating scale in patients with low back pain. Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb 2004.
29. Fritz JM, Childs JD, Flynn TW, Whitman JM, Wainner RS (Fritz). Segmental mobility testing in the classification of low back pain. Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb 2004.
30. Whitman JM, Fritz JM, Childs JD, Flynn TW, Wainner RS, Ryder M, Gill H, Garber MB, Atkins D (Whitman). Measurement properties of outcomes tools for subjects with lumbar spinal stenosis. Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb 2004.
31. Childs JD, Fritz JM, Flynn TW, Irrgang JJ, Delitto A, Johnson KK, Majkowski GR (Childs). Validation of a clinical prediction rule to identify patients with low back pain likely to benefit from spinal manipulation: A randomized clinical trial. Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb 2004.

32. Childs JD, Flynn TW, Fritz JM, Whitman JM (Childs). Clinician experience and patient outcome from spinal manipulation. Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb 2004.
33. Whitman JM, Flynn TW, Wainner RS, Garber MB, Ryder M, Gill H, Atkins D, Childs JD, 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. Childs JD, 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. Childs JD, 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 of the Texas Physical Therapy Association, Austin, TX, Oct 2004.
36. Miltenberger CE, Teyhen DS, Deiters HM, Del Toro YM, Pulliam JN, Childs JD, 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 of the Texas Physical Therapy Association, Austin, TX, Oct 2004.
37. Childs JD, 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, Childs JD, 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, Childs JD, McRae M, Palmer JA, Stowell T (Cleland). Immediate effects of throacic spine manipulation in patients with neck pain: A randomized clinical trial. 10th Annual Meeting of the American Academy of Orthopaedic Manual Physical Therapists, Louisville, KY, Oct 2004.
40. Childs JD, Fritz JM, Flynn TW (Childs). Risks associated with the failure to offer manipulation for patients with low back pain. 10th Annual Meeting of the 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. Childs JD, 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, Childs JD (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, Childs JD, 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 of the American Physical Therapy Association, New Orleans, LA, Feb 2005.
45. Childs JD, Whitman JM, Pugia ML, Sizer PS, Flynn TW, Delitto A. Competency in musculoskeletal medicine: Physical therapists vs. physicians (Childs). Combined Sections Meeting of the American Physical Therapy Association, New Orleans, LA, Feb 2005.
46. Teyhen DS, Flynn TW, Childs JD, Abraham LD (Teyhen). Lumbar spine kinematics among patients likely to benefit from a lumbar stabilization exercise program. Combined Sections Meeting of the American Physical Therapy Association, New Orleans, LA, Feb 2005.
47. Young BA, Walker MJ, Strunce JB, Boyles R, Whitman JM, Childs JD (Young). Responsiveness of the Neck Disability Index in patients with neck disorders. Combined Sections Meeting of the American Physical Therapy Association, New Orleans, LA, Feb 2005.

48. Cleland JA, Childs JD, Palmer JA, McRae M (Childs). Slump stretching in the management of non-radicular low back pain: A pilot clinical trial. Combined Sections Meeting of the 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 of the American Physical Therapy Association, New Orleans, LA, Feb 2005.
50. George SZ, Fritz JM, Childs JD (George). Sex differences in response to intervention for low back pain. Combined Sections Meeting of the American Physical Therapy Association, New Orleans, LA, Feb 2005.
51. Teyhen DS, Flynn TW, Childs JD, Kuklo TR, Rosner MK, Polly DW, Abraham LD (Teyhen). Identifying kinematic movement patterns in patients with lumbar segmental instability. Annual Meeting of the International Society for the Study of the Lumbar Spine, New York, NY, May 2005.
52. Teyhen DS, Flynn TW, Childs JD, Kuklo TR, Rosner MK, Polly DW, Abraham LD (Teyhen). Description of lumbar spine kinematics: A novel approach using digital fluoroscopic video. Annual Meeting of the 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.
85. Cleland JA, Fritz JM, Whitman JM, Childs JD, Palmer JA (Cleland). The use of a lumbar spine manipulation technique in patients who satisfy a clinical prediction rule: A case series. 11th Annual Meeting of the American Academy of Orthopaedic Manual Physical Therapists, Salt Lake City, UT, Oct 2005.
54. Whitman JM, Flynn TW, Fritz JM, Wainner RS, Childs JD, 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. 11th Annual Meeting of the 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 of the Texas Physical Therapy Association, Houston, TX, Oct 2005.
56. Teyhen D, Rieger J, Westrick R, Miller A, Molloy J, Wainner R, Childs JD (Rieger). Ultrasound imaging of the deep abdominal muscles during core stabilization exercises. Combined Sections Meeting of the American Physical Therapy Association, San Diego, CA, Feb 2006.
57. Piva SR, Fitzgerald GK, Irrgang JJ, Jones S, Hando B, Childs JD (Piva). Reliability of measures of impairments associated with patellofemoral pain syndrome. Combined Sections Meeting of the American Physical Therapy Association, San Diego, CA, Feb 2006.
58. Piva SR, Fitzgerald GK, Irrgang JJ, Fritz JM, Childs JD, Delitto A (Piva). Association between impairments and function in individuals with patellofemoral pain syndrome. Combined Sections Meeting of the American Physical Therapy Association, San Diego, CA, Feb 2006.
59. Thomas R, Teyhen DS, Roberts, C, Gray B, Robbins T, Childs JD, 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, Childs JD (Raney). Changes in lateral abdominal muscle function after spinal manipulation: A case series. 12th Annual Meeting of the American Academy of Orthopaedic Manual Physical Therapists, Charlotte, NC, Oct 2006.
61. Whitman JM, Cleland JA, Bieniek ML, Magel JM, Mintken PE, Keirns MA, Childs JD (Magel). Outcomes achieved by patients status post ankle sprain treated with manual physical therapy and exercise interventions: A preliminary report. 12th Annual Meeting of the American Academy of Orthopaedic Manual Physical Therapists, Charlotte, NC, Oct 2006.
62. Cleland JA, Glynn PE, Whitman JM, Eberhart SL, MacDonald C, Childs JD (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. 12th Annual Meeting of the American Academy of Orthopaedic Manual Physical Therapists, Charlotte, NC, Oct 2006.

63. Cleland JA, Childs JD, 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. 12th Annual Meeting of the American Academy of Orthopaedic Manual Physical Therapists, Charlotte, NC, Oct 2006.
64. Teyhen DS, Thomas RM, Darst CC, Gray BE, Robbins TL, Childs JD, McPoil TM, Molloy JM (Thomas). Awareness and compliance with recommended physical activity and running shoe guidelines among American Soldiers. Proceedings of the Annual Conference of the Texas Physical Therapy Association. 2006.
65. Sutlive TG, Mabry LM, Easterling EJ, Durbin JD, Hanson SL, Wainner RS, Childs JD (Hanson). Comparison of short-term response to two spinal manipulation techniques for patients with low back pain. Proceedings of the Annual Conference of the Texas Physical Therapy Association. 2006.
66. Cleland J, Glynn P, Whitman JM, Eberhart SL, MacDonald C, Childs JD (Cleland). Short-term response of thoracic spine thrust versus nonthrust manipulation in patients with mechanical neck pain: A randomized clinical trial. Combined Sections Meeting of the American Physical Therapy Association, Boston, MA, Feb 2007.
67. Sutlive TG, Mabry LM, Easterling EJ, Durbin JD, Hanson SL, Wainner RS, Childs JD (Mabry). Comparison of short-term response to 2 spinal manipulation techniques for patients with low back pain. Combined Sections Meeting of the American Physical Therapy Association, Boston, MA, Feb 2007.
68. Browder D, Childs JD, 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 of the American Physical Therapy Association, Boston, MA, Feb 2007.
69. George SZ, Fritz JM, Childs JD (George). Elevated fear-avoidance beliefs for subjects participating in physical therapy clinical trials. Combined Sections Meeting of the American Physical Therapy Association, Boston, MA, Feb 2007.
70. Teyhen DS, Thomas RM, Darst CC, Gray BE, Robbins TL, Childs JD, McPoil T, Molloy JM (Teyhen). Awareness and compliance with recommended physical activity and running shoe guidelines among American soldiers. Combined Sections Meeting of the 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 of the American Physical Therapy Association, Nashville, TN, Feb 2008.
73. Raney NH, Petersen EJ, Smith TA, Cowan JE, Rendeiro DG, Deyle GD, Childs JD (Raney). A clinical prediction rule for classifying patients with neck pain who demonstrate short-term improvement with cervical traction and exercise. Combined Sections Meeting of the 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 of the American Physical Therapy Association, Nashville, TN, Feb 2008.
75. Teyhen DS, Mooney LN, Dolbeer JA, Baker SE, Molloy JM, Whittaker J, Childs JD (Teyhen). Lateral abdominal muscle behavior in subjects with lumbopelvic pain during the abdominal drawing-in maneuver. Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb 2008.
76. Davenport TE, Cleland JA, Lewthwaite R, Yamada KA, Childs JD, 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 of the American Physical Therapy Association, Nashville, TN, Feb 2008.

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", Physical and 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", Physical and 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 of the 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 of the American Physical Therapy Association, Nashville, TN, Feb 2004.
18. "Summary and Application of Direct Access Evidence", Primary Care Education Group Programming, Combined Sections Meeting of the 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 of the American Physical Therapy Association, Nashville, TN, Feb 2004.
20. "Which Patients with Low Back Benefit from Spinal Manipulation", Central District Meeting of the 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 and Exposition of the American Physical Therapy Association, Chicago, IL, Jun 2004.
24. "Benefits of Funding from the Foundation for Physical Therapy: An Emerging Research Agenda", Board of Trustees meeting, Annual Conference and Exposition of the 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 of the 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 of the 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, Department of Physical Therapy, 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 of the American Geriatrics Society, Orlando, Florida, May 2005.
38. "Defining Autonomy and Quality Care for Physical Therapist Practice", USAF 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 and Exposition of the 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", Private Practice Section, American Physical Therapy Association, Phoenix, AZ, Oct 2005.
50. "Integrating Evidence into Private Practice", Private Practice Section, American Physical Therapy Association, Phoenix, AZ, Oct 2005.
51. "Rehabilitative Imaging: Innovation to Improve Clinical Practice Integrating Evidence into Private Practice", Private Practice Section, American Physical Therapy Association, 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 of the 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 of the 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 of the American Physical Therapy Association, San Diego, CA, Feb 2006.
61. "Integrating Evidence into Private Practice", Private Practice Section, Combined Sections Meeting of the 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, Department of Physical Therapy, 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", Private Practice Section, American Physical Therapy Association, 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 of the American Physical Therapy Association, Boston, MA, Feb 2007.
84. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Annual Conference of the Florida Physical Therapy Association, Orlando, FL, Mar 2007.
85. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Alamance Regional Medical Center, Burlington, NC, Mar 2007.

86. "The Race for Ownership of Low Back Pain: Evidence Trumps Politics", Department of Physical Therapy, West Virginia University, Morgantown, WV, Apr 2007.
87. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", National Yang-Ming University, Taipei, Taiwan, May 2007.
88. "Workshop on Manual Therapy and Exercise Approach for Spinal Disorders", National Yang-Ming University, Taipei, Taiwan, May 2007.
89. "Manual Therapy Management of the Lumbopelvic Spine", Annual Conference of the American Physical Therapy Association, Denver, CO, Jun 2007.
90. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Texas Physical Therapy Specialists, San Antonio, TX, Jul 2007.
91. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Orthopedics Plus Physical Therapy, Russellville, KY, Aug 2007.
92. "Physical Therapists and the 21st Century Health Care Food Chain", Charles Magistro Lecture, Arcadia University, Glenside, PA, Sep 2007.
93. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Alamance Regional Medical Center, Burlington, NC, Sep 2007.
94. "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.
95. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", ProRehab, Evansville, IN, Sep 2007.
96. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", San Luis Sports Therapy, San Luis Obispo, CA, Nov 2007.
97. "Physical Therapists and the 21st Century Health Care Food Chain: Direct Employer Contracting is the Way Forward", Private Practice Section, American Physical Therapy Association, San Diego, CA, 2005.
98. "Evidence-based Practice in Your Clinic", Proaxis Therapy, Greenville, SC, Nov 2007.
99. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Proaxis Therapy, Greenville, SC, Nov 2007.
100. "Low Back Pain in Athletes: A Review", Swiss Sports Physical Therapy Association, Bern, Switzerland, Nov 2007.
101. "Spinal manipulation In Patients with Low Back Pain: An Evidence-based Update", Swiss Sports Physical Therapy Association, Bern, Switzerland, Nov 2007.
102. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Park Nicollet, St. Louis Park, MN, Jan 2008.
103. "Manual Physical Therapy and the Current State of Musculoskeletal Care in the US: Feast or Famine", Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb 2008.
104. "Classification of Patients with Neck Pain: The Next Frontier", Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb 2008.
105. "Research Information Exchange Center", Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb 2008.
106. "The Eugene Michels Forum: Contrasting Approaches to Physical Therapy Diagnosis: Examples from Pediatrics and Musculoskeletal Physical Therapy", Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb 2008.
107. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Physical Therapy South, Lafayette, LA, Feb 2008.
108. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Providence Health, Portland, OR, Mar 2008.
109. "Critical Review of Literature", Colonel Mary Lipscomb Hamrick Research Course, San Antonio, TX, Apr 2008
110. "Grant Funding in the DoD", Colonel Mary Lipscomb Hamrick Research Course, San Antonio, TX, Apr 2008
111. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", St. Joseph's Medical Center, Bloomington, IL, Apr 2008.

GRANT AND FUNDING ACTIVITY (COMPLETE, EXISTING, AND PENDING):

Ongoing Research Support

EMPI, Inc. (07/01/08-12/31/10) (\$354,758)

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

Role: Co-investigator

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.

National Center for Complementary and Alternative Medicine (01/01/08-12/31/09) (\$295,115)

Biology of Manual Therapies R21

Biomechanical and Neurophysiological Effects of Spinal Manipulative Therapy

Role: Co-investigator

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.

Peer Reviewed Medical Research Program (10/01/05-09/30/09) (\$1,008,426)

Congressionally Directed Medical Research Programs

Prevention of low back pain in the military: A randomized trial

Proposal Log Number PR054098, Award Number W81XWH-06-1-0564, HSRRB Log Number A-13705

Role: PI (Co-PI with George SZ)

The specific aim of this project is to perform a cluster randomized clinical trial to investigate the efficacy of primary and secondary low back pain prevention strategies in Soldiers of the United States Army.

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

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.

Clinical Research Grant Program (01/01/06 – 12/31/08) (\$5,000)

American Academy of Orthopaedic Manual and Manipulative Therapists

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

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.

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

Orthopaedic Section, American Physical Therapy Association

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

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.

Completed Research Support

Clinical Research Grant Program (01/01/06 – 12/31/06) (\$5,000)

American Academy of Orthopaedic Manual and Manipulative Therapists

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

Role: Co-investigator

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

Advances in Medical Practice (10/01/05 – 09/30/06) (\$900,000)

The Telemedicine and Advanced Technology Research Center, U.S. Army Research and Materiel Command

Rehabilitative ultrasound imaging

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.

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

Orthopaedic Section, American Physical Therapy Association

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

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.

Clinical Research Grant Program (01/01/04 – 12/31/04) (\$5,000)

American Academy of Orthopaedic Manual and Manipulative Therapists

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

Role: Co-investigator

The specific aim of this project 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.

Research Grant (01/01/04 – 12/31/04) (\$40,000)

Foundation for Physical Therapy

The effectiveness of an extension-oriented intervention in patients with low back pain: A randomized clinical trial

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 pain hypothesized to benefit from this treatment approach.

Health Promotion and Prevention Initiatives Program (10/1/03 – 09/30/04) (\$35,000)

U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM)

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

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.

Clinical Research Grant Program (04/1/03 - 03/31/04) (\$7500)

Orthopaedic Section, American Physical Therapy Association

Validation of a clinical prediction rule for identifying patients likely to benefit from a lumbar stabilization program

Role: Co-investigator (PI: Hicks GE)

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

Small Grant Program (01/1/03 - 12/31/03) (\$1500)

Sports Physical Therapy Section, American Physical Therapy Association

Competency in musculoskeletal medicine: physical therapist vs. physician performance

Role: PI

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

Clinical Research Grant Program (01/1/03-12/31/03) (\$7500)

Orthopaedic Section, American Physical Therapy Association and

Commander's Intramural Research Funding Program (01/01/03 – 12/31/03) (\$42,591.75)

Wilford Hall Medical Center and

Research Fund Award (01/01/03 – 12/31/03) (\$1000)

Pennsylvania Physical Therapy Association

Association between impairments and function in response to physical therapy in individuals with patellofemoral pain syndrome

Role: Co-investigator (PI: Piva SR)

The specific aim of this project 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.

Research Grant Program (01/1/02 - 12/31/02) (\$40,000)

Foundation for Physical Therapy and

Commander's Intramural Research Funding Program (01/01/02) (\$40,000)

Wilford Hall Medical Center

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

Role: Co-investigator (PI: Fritz JM)

The specific aim of this project 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.

Small Grant Program (01/1/02 - 12/31/02) (\$1500)

Sports Physical Therapy Section, American Physical Therapy Association

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

Role: PI

The specific aim of this project 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.

Clinical Research Grant Program (04/1/01 - 03/31/02) (\$10,000)

Orthopaedic Section, American Physical Therapy Association and

Commander's Intramural Research Funding Program (4/1/01 - 3/31/02) (\$10,000)

Wilford Hall Medical Center

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

Role: Co-investigator (PI: Whitman JM)

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

Clinical Research Grant Program (04/1/01 - 03/31/02) (\$10,000)

Orthopaedic Section, American Physical Therapy Association

Gait adaptations in individuals with knee osteoarthritis

Role: PI

The specific aim of this project 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.

Pending Research Support

National Institute of Arthritis and Musculoskeletal and Skin Diseases (Pending submission) (\$6 million)

National Institutes of Health

Overcoming obstacles to recovery: a randomized trial of a cognitive behavioral intervention for primary care patients with low back pain

Role: Co-investigator

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.

Peer Reviewed Medical Research Program (10/01/07-09/30/10) (\$1,000,000)

Congressionally Directed Medical Research Programs

Multidisciplinary treatment of fibromyalgia in military beneficiaries: a randomized clinical trial

Role: Co-investigator (PI: Peterson A)

The specific aim of this project is to evaluate the independent and combined efficacy of multidisciplinary and medication treatment of fibromyalgia compared to a waiting list control group in reducing pain, fatigue, morning stiffness, insomnia, and depression.

National Institute of Arthritis and Musculoskeletal and Skin Diseases (Submitted 10/05) (\$500,000)

Research Partnerships for Improving Functional Outcomes

Impact of a manipulation decision rule on low back pain

Role: Co-investigator

The specific aim of this study is to compare the cost-effectiveness of immediate care based on a spinal manipulation clinical prediction rule versus usual care in the primary care management of low back pain.

ONGOING RESEARCH AND SCHOLARLY ACTIVITY:

1. The effects of walking speed and an uneven surface on dynamic stability: A lower extremity amputee study, US Army-Baylor University Doctoral Program in Physical Therapy and University of Texas, Stage: Proposal preparation.
2. Neurophysiologic and biomechanical characteristics of patients with low back pain likely to benefit from spinal manipulation, US Army-Baylor University Doctoral Program in Physical Therapy and University of Utah, Stage: Proposal preparation.
3. Validation of a clinical prediction rule to identify patients with neck pain likely to benefit from thoracic spine thrust manipulation, US Army-Baylor University Doctoral Program in Physical Therapy, University of Utah, and Franklin Pierce College, Stage: Proposal preparation.
4. Overcoming obstacles to recovery: A randomized trial of a cognitive behavioral intervention for primary care patients with low back pain, US Army-Baylor University Doctoral Program in Physical Therapy, University of Pittsburgh, and University of Utah, Stage: Grant review.
5. Multidisciplinary treatment of fibromyalgia in military beneficiaries: a randomized clinical trial, US Army-Baylor University Doctoral Program in Physical Therapy, University of Texas Health Science Center at San Antonio, Wilford Hall Medical Center, and Brooke Army Medical Center, Stage: Grant review.
6. Cost-effectiveness of implementing a spinal manipulation clinical prediction rule into the primary care management of patients with low back pain, US Army-Baylor University Doctoral Program in Physical Therapy and University of Utah, Stage: Grant review.
7. The value of adding pelvic traction to an extension-oriented approach for patients with low back pain and sciatica receiving physical therapy: A randomized clinical trial, US Army-Baylor University Doctoral Program in Physical Therapy and University of Utah, Stage: Grant review.

8. Pain and functional outcomes in patients with lumbar spinal stenosis treated with orthopaedic manual physical therapy and exercise: An observational study, U.S. Army Post-professional Doctoral Program in Orthopaedic Manual Physical Therapy and US Army-Baylor University Doctoral Program in Physical Therapy, Stage: Data collection.
9. Prevention of low back pain in the military: A randomized clinical trial, US Army-Baylor University Doctoral Program in Physical Therapy and University of Florida, Stage: Data collection.
10. Cost effectiveness of classification-based physical therapy in an academic medical center, US Army-Baylor University Doctoral Program in Physical Therapy and University of Pittsburgh, Stage: Data collection.
11. A clinical prediction rule for classifying patients with chronic low back pain who are most likely to benefit from Pilates exercise, US Army-Baylor University Doctoral Program in Physical Therapy and Polestar Pilates Center, Stage: Data collection.
12. 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, US Army-Baylor University Doctoral Program in Physical Therapy, Franklin Pierce College, University of Southern California, and University of Utah, Stage: Data collection.

TEACHING RESPONSIBILITIES:

1. Teaching Assistant, Manual Therapy (Extremities and Spine), Department of Physical Therapy, University of Pittsburgh, Fall 2000.
2. Teaching Assistant, Musculoskeletal Causes, Analysis, and Interventions in Movement Dysfunction I (Lower Extremity), Department of Physical Therapy, University of Pittsburgh, Fall 2000.
3. Teaching Assistant, Evidenced-Based Practice I, Department of Physical Therapy, University of Pittsburgh, Fall 2000, Fall 2001, Fall 2002.
4. Teaching Assistant, Evidenced-Based Practice II, Department of Physical Therapy, University of Pittsburgh, Spring 2001, Spring 2002.
5. Teaching Assistant, Evidenced-Based Practice III, Department of Physical Therapy, University of Pittsburgh, Summer 2001, Summer 2002.
6. Instructor/Lecturer, Functional Anatomy of the Wrist and Hand, Department of Physical Therapy, University of Pittsburgh, Summer 2002.
7. Instructor/Lecturer, Doctoral Seminar, Department of Physical Therapy, University of Pittsburgh, Fall 2002.
8. Guest Lecturer and Research Advisor, U.S. Army-Baylor University Doctoral Program in Physical Therapy, Fall 2003, Spring 2004, Summer 2004, Fall 2004, Spring 2005.
9. Guest Lecturer/Lab Instructor, U.S. Army Advanced Physical Therapy Course on Evaluation and Treatment of the Spine, Summer 2003.
10. Guest Lecturer, U.S. Army Post-professional Doctoral Program in Orthopaedic Manual Physical Therapy, Summer 2003, Fall 2003, Fall 2004.
11. Faculty, The COL Doug Kersey Neuromusculoskeletal Evaluation Course for Physical Therapy Officers, Fall 2003, Fall 2004, Fall 2005, Fall 2006, Fall 2007
12. Faculty, U.S. Air Force Physical Therapy OZO Course, Spring 2005, Spring 2006, Spring 2007.
13. Faculty, U.S. Army-Baylor University Doctoral Program in Physical Therapy, Summer 2005, Fall 2005, Spring 2006, Summer 2006, Fall 2006, Spring 2007 (Research Design, Statistics, Evidence-based Practice I-IV)
14. Faculty, U.S. Army Post-professional Doctoral Program in Orthopaedic Manual Physical Therapy, Summer 2005, Fall 2005, Spring 2006, Summer 2006, Fall 2006, Summer 2007 (Research Design, Statistics).

MILITARY EDUCATION AND 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. "USAF Physical Therapy/Occupational Therapy Management Symposium", Sheppard AFB, Wichita Falls, TX (37.5 contact hours)., Apr 1997.
7. 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 (SOS), Dec 1998.
10. Instructor/Evaluator, Expert Field Medical Badge Course (EFMB), Ellsworth AFB, SD, Jun 1999.
11. "USAF 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. "USAF Advanced Physical Therapy 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. "USAF Physical Therapy/Occupational Therapy Management Symposium", San Antonio, TX (24 contact hours)., Feb 2001.
16. "Medical Unit Readiness Training", Camp Rissington, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX, Oct 2003.
17. Combat Arms Training", Lackland AFB, San Antonio, TX, Oct 2003.
18. Air Command and Staff College (ACSC), Nov 2006.

COMMUNITY INVOLVMENT:

- | | |
|-----------|--|
| 1992-1994 | Member and Big Brother, Big Brothers Big Sisters of America, Pikes Peak Chapter, Colorado Springs, CO |
| 1999-2000 | Led 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 |
| 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) |
| 1994- | Member, Baptist Student Union Alumni Association |
| 1995- | Member, Aircraft Owner's and Pilots Association (Private Pilot – 120 flying hours). |
| 2004- | Member, Praise and Worship Team, Northeast Bible Church, San Antonio, TX |
| 2005- | Sunday School Teacher, 4-year-old and 3 rd grade class, Northeast Bible Church, San Antonio, TX |
| 2007- | Chair, BRIDGE Team, Capital Giving Campaign, Northeast Bible Church, San Antonio, TX |
| 2007- | Member (#0C0705281307), Space Adventures' Spaceflight Club |
| 2007- | Member, San Antonio Petroleum Club |
| 2007- | Member, U.S. Air Force Academy Sabre Society |