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Associate Professor & Director of Research
U.S. Army-Baylor University Doctoral Program in Physical Therapy
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Jul-10

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 & POSITIONS:

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|-----------|---|
| 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 & Director of Research, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX |
| 2004-2005 | Postdoctoral Research Fellow, Department of Physical Therapy, School of Health & Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA |
| 2005-2007 | Assistant Professor & Director of Research, U.S. Army-Baylor University Doctoral Program in Physical Therapy, Army Medical Department Center & School, Baylor University, San Antonio, TX |
| 2002-2007 | Assistant Professor, U.S. Army-Baylor University Postprofessional Doctoral Program in Orthopaedic Manual Physical Therapy, Brooke Army Medical Center, San Antonio, TX |
| 2005- | Chief, USAF Physical Medicine Research & Practice Activities, Wilford Hall Medical Center, San Antonio, TX |
| 2008- | Associate Professor, U.S. Army-Baylor University Postprofessional Doctoral Program in Orthopaedic Manual Physical Therapy, Brooke Army Medical Center, San Antonio, TX |
| 2008- | Associate Professor & Director of Research, U.S. Army-Baylor University Doctoral Program in Physical Therapy, Army Medical Department Center & School, Baylor University, San Antonio, TX |

LICENSURE, CERTIFICATIONS, & FELLOWSHIPS:

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|-------|---|--------------|
| 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- | Orthopaedic Clinical Specialist, American Board of Physical Therapy Specialties | #4678 |
| 2002- | Fellow, American Academy of Orthopaedic and Manual Physical Therapists | #FF0342 |
| 2008- | Licensed Physical Therapist, Executive Council of Physical Therapy & Occupational Therapy, State of Texas | #1185333 |

PROFESSIONAL ACTIVITIES:

Memberships in Professional Societies:

- 1994- Life Member, U.S. Air Force Academy Association of Graduates (#940705)
- 1996- Life Member, Military Officer's Association of America
- 1996- Member, U.S. Army-Baylor University Physical Therapy Alumni Association
- 1996- Member, American Physical Therapy Association (#231478)
- 1996- Member, Orthopaedic Section, American Physical Therapy Association
- 1996-1999 Member, Arizona Physical Therapy Association and Southern District, Arizona Physical Therapy Association
- 1998-2002 Member, National Strength and Conditioning Association (#96-09-24-230)
- 1999-2000 Member, Mississippi Physical Therapy Association
- 1999-2000 Member, American College of Healthcare Executives
- 2000-2002 Member, Pennsylvania Physical Therapy Association and Southwestern District, Pennsylvania Physical Therapy Association
- 2000-2004 Member, Military Special Interest Group, National Strength and Conditioning Association
- 2000-2004 Member, Sports Section, American Physical Therapy Association
- 2000-2004 Member, Sports Residency Special Interest Group, Sports Physical Therapy Section, American Physical Therapy Association
- 2002- Member, Education Section, American Physical Therapy Association
- 2002- Member, Research Section, American Physical Therapy Association
- 2002- Fellow Member, American Academy of Orthopaedic Manual Physical Therapists (#FF0342)
- 2002- Charter Member, Three Rivers Chapter, U.S. Air Force Academy Association of Graduates
- 2002- Member, Texas Physical Therapy Association and Central District, Texas Physical Therapy Association
- 2003- Member, Alamo Area Chapter, U.S. Air Force Academy Association of Graduates
- 2003- Life Member, Association of Military Surgeons of the United States (AMSUS) (#78897)
- 2007- Member, Forbes.com CEO Network
- 2007- Member, Private Practice Section, American Physical Therapy Association
- 2007- Member (#OC0705281307), Space Adventures' Spaceflight Club
- 2007- Member, San Antonio Petroleum Club
- 2007- Member, U.S. Air Force Academy Sabre Society
- 2009- Member, Bulverde Area Republican Women

Professional Service:

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

- 2002 Member, Revenue Generation Task Force, Orthopaedic Section, American Physical Therapy Association
- 2002-2004 Member, Specialization Academy of Content Experts, Orthopaedic Clinical Specialist Board Certification Examination, American Board of Physical Therapy Specialties
- 2002-2005 On-site reviewer for physical therapist education programs, Commission on Accreditation in Physical Therapy Education
- 2002-2006 Faculty, Advanced Clinical Practice Continuing Education Series, American Physical Therapy Association
- 2004 Orthopaedic Poster Tour Facilitator, Annual Conference, American Physical Therapy Association, American Physical Therapy Association
- 2004-2005 Committee of Content Experts, Orthopaedic Clinical Specialist Board Certification Examination, American Board of Physical Therapy Specialties
- 2004-2005 Trustee, Texas Physical Therapy Foundation
- 2004-2005 Member, Development Committee, Texas Physical Therapy Foundation
- 2004-2006 Member, Finance Committee, Orthopaedic Section, American Physical Therapy Association
- 2004-2007 Member, Orthopaedic Independent Study Course Advisory Panel, Orthopaedic Section, American Physical Therapy Association
- 2005-2006 Member, Differential Diagnosis Subcommittee, Annual Conference Program Committee, American Physical Therapy Association
- 2005-2006 Government Affairs Committee, Texas Physical Therapy Association
- 2006-2007 Reviewer, Healthwise Medical Knowledge Base, American Physical Therapy Association
- 2006-2007 Standardization Subgroup, International Classification of Function Task Force, Orthopaedic Section, American Physical Therapy Association
- 2006-2008 Chair, Cervical Spine Review Group, International Classification of Function Task Force, Orthopaedic Section, American Physical Therapy Association
- 2006-2008 Member, President's Cabinet, Foundation for Physical Therapy
- 2007-2008 Member, Program Committee, International Research Symposium, Somato-Visceral Interactions and Autonomic Mechanisms of Manual Therapy
- 2009 Poster Discussion Leader, Annual Conference & Exposition, American Physical Therapy Association
- 2002- Member, Research Committee, American Academy of Orthopaedic Manual Physical Therapists
- 2003- Member, Hooked on Evidence Extraction Review Group, American Physical Therapy Association
- 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 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
- 2008- Member, Communications Task Force, American Physical Therapy Association
- 2008- Member, Research Agenda Task Force, Orthopaedic Section, American Physical Therapy Association
- 2009- Expert Reviewer for Medical Malpractice Claims, Medical Law Branch, Air Force Medical Service
- 2010- Member, Media Corps, American Physical Therapy Association

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 Hand Therapy*, *Journal of Orthopaedic and Sports Physical Therapy*, *Physical Therapy*, *Archives of Physical Medicine and Rehabilitation*, *Manual Therapy*, *Clinical Biomechanics*, *Arthritis Care and Research*, *Clinical Orthopaedics & Related Research*, *American Journal of Sports Medicine*, *Military Medicine*, *HPA Journal*
- 2002- Member, Abstract Review Committee, Orthopaedic Section, American Physical Therapy Association
- 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*
- 2009- Subject Matter Expert for Product Line Review, Rehabilitative Medicine/Military Amputee Research Program, Telemedicine & Advanced Technology Research Center
- 2009- Subject Matter Expert for development of multimedia educational low back pain DVD, U.S. Air Force Center of Excellence for Medical Multimedia (<http://www.lowbackpainatoz.org>)
- 2010 Reviewer, American College of Occupational and Environmental Medicine Clinical Practice Guidelines

Service on Student/Resident Advisory Committees

- 2002- Faculty Research Advisory Committee, U.S. Army-Baylor University Graduate Program in Physical Therapy (Class 2004), "Does ultrasound biofeedback improve performance of the abdominal drawing-in maneuver in patients with chronic low back pain?"
- 2003- Faculty Research Advisory Committee (Class 2006), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Preferential activation of the transversus abdominus muscle during core
- 2005

- lumbar stabilization exercises"
- 2003-2006 Doctoral Dissertation Committee (Joshua A. Cleland), Nova Southeastern University, "Development of a clinical prediction rule to identify patients with neck pain likely to benefit from thoracic spine manipulation"
- 2004-2007 Faculty Research Advisory Committee (Class 2007), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Comparison of two spinal manipulations for the treatment of low back pain as measured by patient self-reports of pain and function: A randomized clinical trial"
- 2004-2007 Faculty Research Advisory Committee (Class 2007), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Long term effectiveness of the Army's running shoe program: an analysis of soldiers' knowledge and shoe selection"
- 2005-2008 Faculty Research Advisory Committee (Class 2008), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Assessment of the lateral abdominal muscles in subjects with sacroiliac dysfunction during the active straight-leg-raise test"
- 2005-2008 Faculty Research Advisory Committee (Class 2008), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Predictive validity of selected clinical examination findings for the diagnosis of hip osteoarthritis"
- 2006-2007 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"
- 2008-2011 Faculty Research Advisory Committee (Class 2011), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Predictors of follow-up in the Prevention of Low Back Pain in the Military trial"
- 2008-2011 Faculty Research Advisory Committee (Class 2011), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Lower extremity physical performance in healthy active duty service members: A reliability study"
- 2009-2012 Faculty Research Advisory Committee (Class 2012), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Impact of the U.S. Army-Baylor University Doctoral Program in Physical Therapy internship program on access to care"
- 2009-2012 Faculty Research Advisory Committee (Class 2012), U.S. Army-Baylor Doctoral Program in Physical Therapy, "Knowledge of acute low back pain management among physical

therapists and physicians in the uniformed services”

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, 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\SL Group’s Healthcare Advisory Board
- 2005- Member, ACN Group National Advisory Committee
- 2006- Consultant, Emmi Solutions, Development of acute low back pain multimedia educational program

HONORS & AWARDS:

- 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 Outstanding Research Platform Presentation Award, Texas Physical Therapy Association, "Ultrasound imaging of the deep abdominal muscles during core stabilization exercises"
- 2005 Ruby Decker Award, Texas Physical Therapy Association
- 2005 Rose Excellence in Research Award, Orthopaedic Section, American Physical Therapy Association, "A clinical prediction rule to identify patients with low back pain most likely to benefit from spinal manipulation: A validation study"
- 2005 Field Grade Physical Therapist of the Year, Air Force Medical Service
- 2005 Air Force Meritorious Service Medal, Lackland Air Force Base, San Antonio, TX
- 2006 Eugene Michels New Investigator Award, American Physical Therapy Association
- 2006 COL David G. Greathouse Excellence in Research Award, US Army-Baylor University Doctoral Program in Physical Therapy, "Ultrasound imaging of the deep abdominal muscles during core stabilization exercises"
- 2006 Field Grade Officer of the Quarter (Jul-Sep), Air Force Element Medical DoD, San Antonio, TX
- 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 Doctoral Program in Physical Therapy, Predictive validity of selected clinical examination findings for the diagnosis of hip OA
- 2007 Charles M. Magistro Distinguished Lecturer Award, Arcadia University
- 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"
- 2008 COL David G. Greathouse Excellence in Research Award, US Army-Baylor University Doctoral Program in Physical Therapy, "The effects of traditional sit-up training versus core stabilization exercises on sit-up performance on us army soldiers: A cluster randomized trial"
- 2008 William Gould Memorial Faculty Award, Texas Physical Therapy Association

- 2008 Order of Military Medical Merit Award, Army Medical Department
- 2008 U.S. Air Force Outstanding Achievement in Clinical Research Award, Air Force Medical Service
- 2009 Leader in Physical Therapy Award, Division of Physical Therapy, Ohio State University
- 2009 Colonel Mary Lipscomb Hamrick Army Medical Specialists Corps Abstract Award, "Effects of sit-up training vs. core stabilization exercises on sit-up performance"
- 2009 Inc.Credible Award, Evidence in Motion, LLC, Greater Louisville Inc. (for category of businesses with 10-49 employees)
- 2009 Practice Award, Texas Physical Therapy Specialists, Private Practice Section of the American Physical Therapy Association
- 2009 Inc. 500 list (#214 with 3-year revenue growth of 959%), Texas Physical Therapy Specialists, Inc. 500
- 2009 Commencement Speaker, Class 2009 Physical Therapist Graduation Ceremony, Elon University
- 2010 COL David G. Greathouse Excellence in Research Award, US Army-Baylor University Doctoral Program in Physical Therapy, "Effects of traditional sit-up training versus core stabilization exercises on short-term musculoskeletal injury rates in US Army soldiers: A randomized clinical trial"

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

1. 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.* 2006; 11(4):279-286. [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. [PMID: 19066662](#).
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; 87(12):1608-18. [PMID: 17895350](#).
46. 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.* 2008; 87(2):109-17. [PMID: 17993982](#).
47. 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](#).
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.* *J Orthop Sports Phys Ther.* 2008; 38(2):50-8. [PMID: 18349490](#).
49. Childs JD, Cleland JA, Elliott JM, Teyhen DS, Wainner RS, Whitman JM, Sopky BJ, Godges JJ, Flynn TW. Neck Pain. *J Orthop Sports Phys Ther.* 2008; 38(9):A1-A34. [PMID: 18758050](#).
50. 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 individuals with unilateral hip pain. *J Orthop Sports Phys Ther.* 2008; 38(9):542-550. [PMID: 18758047](#).
51. 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.* 2008; 38(10):596-605. [PMID: 18827329](#).

52. 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. *Eur Spine J*. 2009; 18(3):382-91. [PMID: 19142674](#).
53. Piva SR, Fitzgerald GK, Irrgang JJ, Fritz JM, Wisniewski S, McGinty GT, Childs JD, Domenech MA, Jones SA, Delitto A. Associates of physical function and pain in patients with patellofemoral pain syndrome. *Arch Phys Med Rehabil*. 2009; 90(2):285-295. [PMID: 19236982](#).
54. 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*. 2009; 39(4):278-286. [PMID: 19346622](#).
55. Teyhen DS, Williamson JN, Carlson NH, Suttles ST, O'Laughlin SJ, Whittaker JL, Goffar SL, Childs JD. Ultrasound characteristics of the deep abdominal muscles during the active straight leg raise test. *Arch Phys Med Rehabil*. 2009; 90(5):761-7. [PMID: 1940629](#).
56. George SZ, Teyhen DS, Wu SS, Wright AC, Dugan JL, Yang G, Robinson ME, Childs JD. Psychosocial education improves low back pain beliefs: Results from a cluster randomized clinical trial (NCT00373009) in a primary prevention setting. *Eur Spine J*. 2009; 18(7):1050-8. [PMID: 19418075](#).
57. Robinson ME, Teyhen DS, Wu SS, Dugan JL, Wright AC, Yang G, Childs JD, George SZ. Mental health symptoms in combat medic training: A longitudinal examination. *Mil Med*. 2009; 174(6):572-577. [PMID: 19585767](#).
58. 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*. 2009; 9(10):802-8. [PMID: 19632904](#).
59. 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 in a military beneficiary population. *Mil Med*. 2009; 174(7):750-6. [PMID: 19685848](#).
60. Childs JD, George SZ, Wright AC, Dugan JL, Benedict T, Fortenberry A, Bush J, Preston J, McQueen R, Teyhen DS. Effects of sit-up training vs. core stabilization exercises on sit-up performance. *Med Sci Sports Exerc*. 2009; 41(11):2072-83. [PMID: 19812508](#).
61. Teyhen DS, Bluemle LN, Dolbeer JA, Baker SE, Molloy JM, Whittaker JL, Childs JD. Changes in lateral abdominal muscle thickness during the abdominal drawing-in maneuver in those with lumbopelvic pain. *J Orthop Sports Phys Ther*. 2009; 39(11):791-798. [PMID: 19881003](#).
62. Cleland JA, Fritz JM, Kulig K, Davenport TE, Eberhart S, Magel J, Childs JD. 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. *Spine*. 2009; 34(25):2720-2729. [PMID: 19940729](#).
63. Fritz JM, Thackeray A, Childs JD, Brennan GP. A randomized clinical trial of the effectiveness of mechanical traction for sub-groups of patients with low back pain: Study methods and rationale. *BMC Musculoskelet Disord*. 2010; 11(1):81. [PMID: 20433733](#).
64. Cleland JA, Mintken P, Carpenter K, Fritz JM, Glynn P, Whitman JM, Childs JD. Examination of a clinical prediction rule to identify patients with neck pain likely to benefit from thoracic spine thrust manipulation: A multi-center randomized clinical trial. *Phys Ther*. 2010; Jul 15. [PMID: 20634268](#).
65. Childs JD, Teyhen DS, Casey PR, McCoy-Singh KA, Feldtmann AW, Wright AC, Dugan JD, George SZ. Effects of traditional sit-up training versus core stabilization exercises on short-term musculoskeletal injuries in us army soldiers: A cluster randomized trial. *Phys Ther*. 2010; Jul 22. [PMID: 20651013](#).
66. Teyhen DS, Thomas RM, Roberts CC, Gray BE, Robbins T, McPoil T, Childs JD, Molloy JM. Awareness and compliance with recommended running shoe guidelines among U.S. Army soldiers. *Mil Med*. In press.
67. 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. *Phys Ther*. In review.
68. 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. *Arch Phys Med Rehabil*. In review.

PUBLISHED ABSTRACTS:

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, 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 Science 2001: A Research Odyssey, University of Pittsburgh. 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 Annual Congress, 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 Annual Conference, 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, 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, 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, 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, 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, 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.
85. Cleland JA, Fritz JM, Childs JD, Kulig K, Eberhart S, Davenport TE, Magel J, Landel RF. Generalizability of a clinical prediction rule for identifying patient with low back pain who are likely to respond rapidly to thrust manipulation. *J Manip Ther.* 2008; 16(3):162-3.
86. Cleland J, Fritz J, Kulig K, Davenport TE, Eberhart S, Magel JS, Childs JD. 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. *J Orthop Sports Phys Ther;* 2009; 39(1): A16.
87. Childs JD, George SZ, Wright A, Dugan JL, Benedict T, Bush J, Fortenberry A, Preston J, McQueen R, Teyhen DS. The effects of traditional sit-up training versus core stabilization exercises on sit-up performance in US Army Soldiers: A cluster randomized trial (NCT00373009). *J Orthop Sports Phys Ther;* 2009; 39(1): A18.
88. Teyhen DS, Childs JD, Hall NM, Gervacio SC, Lopez JA, Mitchler JR, Wright A, Dugan JL, George SZ. The influence of sex, height, and weight on trunk muscle thickness and endurance. *J Orthop Sports Phys Ther;* 2009; 39(1): A20.
89. George SZ, Teyhen DS, Wu SS, Wright A, Dugan JL, Yang G, Robinson ME, Childs JD. Psychosocial education improves low back pain beliefs: Results from a cluster randomized clinical trial (NCT00373009). *J Orthop Sports Phys Ther;* 2009; 39(1): A30.
90. Childs JD, Teyhen DS, Casey P, McCoy-Singh K, Weston A, George SZ, Wright AC, Dugan JL. The effects of traditional sit-up training versus core stabilization exercises on musculoskeletal injury rates in US Army Soldiers: A cluster randomized trial (NCT00373009). *J Orthop Sports Phys Ther;* 2010; 40(1): A21-22.

91. Cleland J, Childs JD, Glynn PE, Mintken P, Carpenter K, Whitman J. Thoracic spine manipulation and exercise versus exercise alone in the management of mechanical neck pain: Preliminary analysis of a randomized clinical trial. *J Orthop Sports Phys Ther*; 2010; 40(1): A23.
92. Moore JH, Childs JD, Middel CJ, Bennett A, Goffar SL. Army-baylor internship model: A reform of clinical education. Proceedings of the Combined Sections Meeting of the American Physical Therapy Association; 2010.

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](https://pubmed.ncbi.nlm.nih.gov/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](https://pubmed.ncbi.nlm.nih.gov/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](https://pubmed.ncbi.nlm.nih.gov/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](https://pubmed.ncbi.nlm.nih.gov/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: 18349493](#).
32. Cleland JA, Childs JD, Whitman JM. Author's response. *Arch Phys Med Rehabil.* 2008; 89(7): 1415-1416. [PMID: 18586149](#).

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 DGReview 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 & 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, 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, 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, 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, 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, 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. Annual Meeting, 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, 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, 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, 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, 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, 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, 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, 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, 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. Annual Meeting, 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. Annual Meeting, 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. Annual Meeting, 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. Annual Meeting, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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 thoracic spine manipulation in patients with neck pain: A randomized clinical trial. Annual Meeting, American Academy of Orthopaedic Manual Physical Therapists, Louisville, KY, Oct 2004.
40. Childs JD, Fritz JM, Flynn TW (Childs). Risks associated with the failure to offer manipulation for patients with low back pain. Annual Meeting, American Academy of Orthopaedic Manual Physical Therapists, Louisville, KY, Oct 2004.
41. Fritz JM, Childs JD, Whitman JM (Fritz). Lumbar spine segmental mobility assessment: an examination of validity for determining intervention strategies for patients with low back pain (Fritz). 5th Interdisciplinary World Congress on Low Back and Pelvic Pain, Melbourne, Australia, Nov 2004.
42. 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, 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, 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, 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, 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, American Physical Therapy Association, New Orleans, LA, Feb 2005.
49. Whitman JM, Flynn TW, Wainner RS, Fritz JM, Childs JD, Garber MB, Ryder M, Gill H, Bennett A (Whitman). A comparison between two physical therapy treatment programs for subjects with lumbar spinal stenosis: A randomized clinical trial. Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2005.
50. George SZ, Fritz JM, Childs JD (George). Sex differences in response to intervention for low back pain. Combined Sections Meeting, American Physical Therapy Association, New Orleans, LA, Feb 2005.
51. Teyhen DS, Flynn TW, Childs JD, Kuklo TR, Rosner MK, Polly DW, Abraham LD (Teyhen). Identifying kinematic movement patterns in patients with lumbar segmental instability. Annual Meeting, International Society for the Study of the Lumbar Spine, New York, NY, May 2005.

52. Teyhen DS, Flynn TW, 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, 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.
93. 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. Annual Meeting, 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. Annual Meeting, American Academy of Orthopaedic Manual Physical Therapists, Salt Lake City, UT, Oct 2005.
55. Teyhen DS; Rieger JL; Westrick RB; Miller AC; Molloy JM; Wainner RS; Childs JD (Teyhen). Ultrasound imaging of the deep abdominal muscles during core stabilization exercises. Annual Conference, Texas Physical Therapy Association, Houston, TX, Oct 2005.
56. Teyhen D, Rieger J, Westrick R, Miller A, Molloy J, Wainner R, Childs JD (Rieger). Ultrasound imaging of the deep abdominal muscles during core stabilization exercises. Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2006.
57. Piva SR, Fitzgerald GK, Irrgang JJ, Jones S, Hando B, Childs JD (Piva). Reliability of measures of impairments associated with patellofemoral pain syndrome. Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2006.
58. Piva SR, Fitzgerald GK, Irrgang JJ, Fritz JM, Childs JD, Delitto A (Piva). Association between impairments and function in individuals with patellofemoral pain syndrome. Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2006.
59. Thomas R, Teyhen DS, Roberts, C, Gray B, Robbins T, 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. Annual Meeting, American Academy of Orthopaedic Manual Physical Therapists, Charlotte, NC, Oct 2006.
61. Whitman JM, Cleland JA, Bieniek ML, Magel JM, Mintken PE, Keirns MA, Childs JD (Magel). Outcomes achieved by patients status post ankle sprain treated with manual physical therapy and exercise interventions: A preliminary report. Annual Meeting, American Academy of Orthopaedic Manual Physical Therapists, Charlotte, NC, Oct 2006.
62. Cleland JA, Glynn PE, Whitman JM, Eberhart SL, MacDonald C, 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. Annual Meeting, 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. Annual Meeting, 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, 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, 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, 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, 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, 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, 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, American Physical Therapy Association, Boston, MA, Feb 2007.
 71. George SZ, Childs JD, Teyhen DS, Wu SS, Wright AC, Dugan JL, Robinson ME (Teyhen). Rationale, design, and protocol for the prevention of low back pain in the military (POLM) trial (NCT00373009). 10th Annual Force Health Protection Conference, Louisville, KY, Aug 2007.
 72. Sutlive TG, Lopez HP, Schnitker DE, Yawn SE, Halle RJ, Mansfield LT, Boyles RE, Childs JD (Lopez). Development of a clinical prediction rule for diagnosing hip osteoarthritis in patients with unilateral hip pain. Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
 73. Raney NH, Petersen EJ, Smith TA, Cowan JE, Rendeiro DG, Deyle GD, 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, American Physical Therapy Association, Nashville, TN, Feb 2008.
 74. Teyhen DS, Williamson JN, Carlson NH, Suttles ST, O'Laughlin SJ, Whittaker JL, Goffar SL, Childs JD (Williamson). Lateral abdominal muscle behavior in subjects with lumbopelvic pain during the active straight leg raise test. Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
 75. Teyhen DS, Mooney LN, Dolbeer JA, Baker SE, Molloy JM, Whittaker J, Childs JD (Teyhen). Lateral abdominal muscle behavior in subjects with lumbopelvic pain during the abdominal drawing-in maneuver. Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
 76. Davenport TE, Cleland JA, Lewthwaite R, Yamada KA, 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, American Physical Therapy Association, Nashville, TN, Feb 2008.
 77. Cleland JA, Fritz JM, Childs JD, Kulig K, Eberhart S, Davenport TE, Magel J, Landel RF (Cleland). Generalizability of a clinical prediction rule for identifying patient with low back pain who are likely to respond rapidly to thrust manipulation. Annual Meeting, American Academy of Orthopaedic Physical Therapists, Seattle, WA, Oct 2008.
 78. Cleland J, Fritz J, Kulig K, Davenport TE, Eberhart S, Magel JS, Childs JD. Comparison of the effectiveness of three manual physical therapy techniques in a subgroup of patients with low back pain who satisfy a clinical prediction rule: A randomized clinical trial (Cleland). Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
 79. Childs JD, George SZ, Wright A, Dugan JL, Benedict T, Bush J, Fortenberry A, Preston J, McQueen R, Teyhen DS (Childs). The effects of traditional sit-up training versus core stabilization exercises on sit-up performance in US Army Soldiers: A cluster randomized trial (NCT00373009). Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
 80. Teyhen DS, Childs JD, Hall NM, Gervacio SC, Lopez JA, Mitchler JR, Wright A, Dugan JL, George SZ (Wright). The influence of sex, height, and weight on trunk muscle thickness and endurance. Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.

81. George SZ, Teyhen DS, Wu SS, Wright A, Dugan JL, Yang G, Robinson ME, Childs JD (George). Psychosocial education improves low back pain beliefs: Results from a cluster randomized clinical trial (NCT00373009). Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
94. Childs JD, Teyhen DS, Casey P, McCoy-Singh K, Weston A, George SZ, Wright AC, Dugan JL (Childs). The effects of traditional sit-up training versus core stabilization exercises on musculoskeletal injury rates in US Army Soldiers: A cluster randomized trial (NCT00373009). Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2010.
95. Cleland J, Childs JD, Glynn PE, Mintken P, Carpenter K, Whitman J. Thoracic spine manipulation and exercise versus exercise alone in the management of mechanical neck pain: Preliminary analysis of a randomized clinical trial (Cleland). Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2010.
82. Moore JH, Childs JD, Middel CJ, Bennett A, Goffar SL. Army-baylor internship model: A reform of clinical education (Moore). Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2010.

INVITED LECTURES:

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

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

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

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

79. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Evergreen Physical Therapy, Reed City, MI, Nov 2006.
80. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Colorado Sports and Spine Centers, Colorado Springs, CO, Dec 2006.
81. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", University of Pittsburgh, Pittsburgh, PA, Jan 2007.
82. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Park Nicollet, St. Louis Park, MN, Jan 2007.
83. "Integrating Evidence into Private Practice", Combined Sections Meeting, American Physical Therapy Association, Boston, MA, Feb 2007.
84. "Research Information Exchange Center", Combined Sections Meeting, American Physical Therapy Association, Boston, MA, Feb 2007.
85. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Annual Conference, Florida Physical Therapy Association, Orlando, FL, Mar 2007.
86. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Alamance Regional Medical Center, Burlington, NC, Mar 2007.
87. "Professional Issues", Air Force OZO Course, Wilford Hall Medical Center, San Antonio, TX, Mar 2007.
88. "The Race for Ownership of Low Back Pain: Evidence Trumps Politics", Department of Physical Therapy, West Virginia University, Morgantown, WV, Apr 2007.
89. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", National Yang-Ming University, Taipei, Taiwan, May 2007.
90. "Workshop on Manual Therapy and Exercise Approach for Spinal Disorders", National Yang-Ming University, Taipei, Taiwan, May 2007.
91. "Manual Therapy Management of the Lumbopelvic Spine", Annual Conference, American Physical Therapy Association, Denver, CO, Jun 2007.
92. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Texas Physical Therapy Specialists, San Antonio, TX, Jul 2007.
93. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Orthopedics Plus Physical Therapy, Russellville, KY, Aug 2007.
94. "Physical Therapists and the 21st Century Health Care Food Chain", Charles Magistro Lecture, Arcadia University, Glenside, PA, Sep 2007.
95. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Alamance Regional Medical Center, Burlington, NC, Sep 2007.
96. "The COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers", Army Medical Department Center & School, Fort Sam Houston, San Antonio, TX, Sep 2007.
97. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", ProRehab, Evansville, IN, Sep 2007.
98. "The Race for Ownership of Low Back Pain: Leaving No Stone Unturned", University of Iowa, Iowa City, IA, Oct 2007.
99. "Clinical Algorithm for Selecting Manual Therapy Techniques", Drayer Physical Therapy Institute National Conference, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2007.
100. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", San Luis Sports Therapy, San Luis Obispo, CA, Nov 2007.
101. "Physical Therapists and the 21st Century Health Care Food Chain: Direct Employer Contracting is the Way Forward", Annual Conference & Exposition of the Private Practice Section, San Diego, CA, Nov 2007.
102. "Evidence-based Practice in Your Clinic", Proaxis Therapy, Greenville, SC, Nov 2007.
103. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Proaxis Therapy, Greenville, SC, Nov 2007.
104. "Low Back Pain in Athletes: A Review", Swiss Sports Physical Therapy Association, Bern, Switzerland, Nov 2007.
105. "Spinal manipulation In Patients with Low Back Pain: An Evidence-based Update", Swiss Sports Physical Therapy Association, Bern, Switzerland, Nov 2007.

106. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Park Nicollet, St. Louis Park, MN, Jan 2008.
107. "Manual Physical Therapy and the Current State of Musculoskeletal Care in the US: Feast or Famine", Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
108. "Classification of Patients with Neck Pain: The Next Frontier", Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
109. "Research Information Exchange Center", Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
110. "The Eugene Michels Forum: Contrasting Approaches to Physical Therapy Diagnosis: Examples from Pediatrics and Musculoskeletal Physical Therapy", Combined Sections Meeting, American Physical Therapy Association, Nashville, TN, Feb 2008.
111. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Physical Therapy South, Lafayette, LA, Feb 2008.
112. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Providence Health, Portland, OR, Mar 2008.
113. "Professional Issues", Air Force OZO Course, Wilford Hall Medical Center, San Antonio, TX, Mar 2008.
114. "Critical Review of Literature", Colonel Mary Lipscomb Hamrick Research Course, San Antonio, TX, Apr 2008
115. "Grant Funding in the DoD", Colonel Mary Lipscomb Hamrick Research Course, San Antonio, TX, Apr 2008
116. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", St. Joseph's Medical Center, Bloomington, IL, Apr 2008.
117. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Mountain River Physical Therapy, Parkersburg, WV, Jun 2008.
118. "Physical Therapists and the 21st Century Health Care Food Chain: Direct Employer Contracting is the Way Forward", Annual Conference, American Physical Therapy Association, San Antonio, TX, Jun 2008.
119. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", Benchmark Physical Therapy, Atlanta, GA, Aug 2008.
120. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", New Mexico State Chapter of the American Physical Therapy Association, Albuquerque, NM, Sep 2008.
121. "Physical Therapists and the 21st Century Health Care Food Chain", University of Mary, Bismarck, ND, Sep 2008.
122. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", North Dakota State Chapter of the American Physical Therapy Association, Bismarck, ND, Sep 2008.
123. "Clinical Algorithm for Selecting Manual Therapy Techniques", Drayer Physical Therapy Institute National Conference, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2008.
124. "Manual Therapy Techniques for the Lumbar Spine", Drayer Physical Therapy Institute National Conference, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2008.
125. "Pathomechanics of the Cervical Spine", Drayer Physical Therapy Institute National Conference, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2008.
126. "Manual Therapy Techniques for the Cervical and Thoracic Spine", Drayer Physical Therapy Institute National Conference, Drayer Physical Therapy Institute, Hilton Head, SC, Oct 2008.
127. "Building EBP Systems in Private Practice", Annual Conference & Exposition of the Private Practice Section, Orlando, FL, Nov 2008.
128. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", i dioscuro, Associazione Interprofessionale e Tecnico Scientifica di Fisioterapia, Siena, Italy, Nov 2008.
129. "Actualizing Physical Therapists as Direct Access Practitioners", Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.

130. "Use of the International Classification of functioning to Develop Evidence-based Practice Guidelines for Common Musculoskeletal Conditions: A Progress Update", Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
131. "Orthopaedic Section Research Agenda: Public Hearing", Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
132. "Research Information Exchange", Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
133. "Clinical Decision-Making for Patients with Low Back and Neck Pain", Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, Feb 2009.
134. "Officer Education/Research Update", U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium, Las Vegas, NV, Feb 2009.
135. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Physical Therapy South, Lafayette, LA, Mar 2009.
136. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", PRO-Active Physical Therapy, Syracuse, NY, Mar 2009.
137. "Evidence-Based Management of Low Back Pain: The Role of Conservative Therapy", Optum Health Disease Management Trends and Wellness Initiatives, Scottsdale, Arizona, Mar 2009.
138. "Physical Therapists Rescue General Motors from the Brink of Bankruptcy", Ohio State University, Columbus, OH, Apr 2009.
139. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Ohio State University, Columbus, OH, Apr 2009.
140. "Professional Issues", Air Force OZO Course, Wilford Hall Medical Center, San Antonio, TX, Apr 2009.
141. "Use of Technology in Evidence-based Practice", Air Force OZO Course, Wilford Hall Medical Center, San Antonio, TX, Apr 2009.
142. "Using Outcome Measures in Clinical Practice", Air Force OZO Course, Wilford Hall Medical Center, San Antonio, TX, Apr 2009.
143. "Publish or Perish", Colonel Mary Lipscomb Hamrick Research Course, San Antonio, TX, Apr 2009.
144. "Physical Therapists Rescue General Motors from the Brink of Bankruptcy", University of Texas Health Sciences Center, San Antonio, TX, Apr 2009.
145. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine and Hip Disorders", Phoenix Rehab, Mt. Pleasant, PA, Aug 2009.
146. "Classification of Patients with Neck Pain: The Next Frontier", Annual Conference of the California Physical Therapy Association, Pasadena, CA, Oct 2009.
147. "The Race for Ownership of Low Back Pain", Kaiser Permanente Los Angeles Orthopaedic Manual Therapy Fellowship, Los Angeles, CA, Oct 2009.
148. "The Customer Experience: Drive Your Practice Towards Success", Annual Conference & Exposition of the Private Practice Section, Colorado Springs, CO, Nov 2009.
149. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", i dioscuro, Associazione Interprofessionale e Tecnica Scientifica di Fisioterapia, Siena, Italy, Nov 2009.
150. "Officer Education/Research Update", U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium, San Diego, CA, Feb 2010.
151. "Research Information Exchange", Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb 2010.
152. "Scientific Advisory Panel: Low Back Pain", U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium, San Diego, CA, Feb 2010.
153. "Evidence in Motion Open Line Night", Evidence in Motion, San Antonio, TX, Mar 2010.
154. "Physical Therapists Rescue General Motors from the Brink of Bankruptcy", Arizona Physical Therapy Association, Tucson, AZ, Apr 2010.
155. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine & Hip Disorders", Carondelet Health System, Tucson, AZ, Apr 2010.
156. "Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders", College of Mt. St. Joseph Health Science Center, Apr 2010.

157. "Evidence-based Examination and Selected Interventions for Patients with Lumbopelvic Spine & Hip Disorders", Alabama Chapter of the American Physical Therapy Association Spring Conference, Organge Beach, AL, May 2010.
158. "Spinal Manipulation Update: Do We Have Too Many Choices???", Manipalooza, Evidence in Motion, Denver, CO, May 2010.
159. "Low Back Pain Update: Evolution of the Low Back Pain Classification System", Manipalooza, Evidence in Motion, Denver, CO, May 2010.
160. "Implications of Referral to Physical Therapy or Chiropractic Care in U.S. Employer Sponsored Health Plans", San Antonio Military Physical Therapy Research Community, San Antonio, TX, Jul 2010.
161. "Evidence-based Examination and Selected Interventions for Patients with Cervicothoracic Disorders", Carondolet Health System, Tucson, AZ, Jul 2010.

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

Ongoing Research Support

| | | |
|---|-----------------------------|--------------|
| PR054098 (S.Z. George, PI) | 06/01/06 – 05/30/11 | 3.0 calendar |
| DoD/Peer Reviewed Medical Research Program | \$1,008,426 (total directs) | |
| Prevention of Low Back Pain in the Military: A Randomized Clinical Trial | | |
| The major goal of this project is to determine if novel educational and physical training programs are effective at reducing chronic disability from low back pain in active duty Soldiers. | | |

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| J.M. Fritz, PI Empi, Inc. | 07/01/09-12/31/11 | 1.2 calendar |
| \$354,758 (total directs) | | |
| The Value of Adding Traction to Standard Treatments Received by Patients with Low Back or Neck Pain Receiving Physical Therapy: Two Randomized Clinical Trials Validating Clinical Prediction Criteria | | |
| The specific aim of this study is to determine the validity of prediction criteria to identify patients highly likely to benefit from the addition of traction to a standard physical therapy intervention in patients with low back and neck pain. | | |

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| J. Childs, PI | 08/01/10-07/31/11 | .6 calendar |
| \$35,000 (total directs) | | |
| Private Practice and Orthopaedic Sections of the American Physical Therapy Association and American Academy of Orthopaedic and Manual Physical Therapists | | |
| Implications of Referral to Physical Therapy or Chiropractic Care on Costs of Care among Third Party Payers | | |
| The specific aim of this study is to examine the cost implications of the decision to refer patients with a new episode of LBP from primary care providers to physical therapy or chiropractic care. | | |

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|---|-------------------|-------------|
| R21 AT004221-01A1 (J.M. Fritz, PI) | 01/01/09-12/31/10 | .6 calendar |
| NIH/NCCAM | | |
| \$295,115 (total directs) | | |
| Biomechanical and Neurophysiological Effects of Spinal Manipulative Therapy | | |
| The specific aim of this study is to compare neurophysiologic and biomechanical characteristics between patients who are therapeutic responders or non-responders to spinal manipulation therapy. | | |

Pending Research Support

| | | |
|---|-------------------|--------------|
| OR100021 (R.A. Cooper, PI) | 01/01/11-12/31/13 | 2.4 calendar |
| DoD/Peer Reviewed Orthopaedic Rehabilitation Consortium | | |
| \$19,500,000 (total directs – 5 years) | | |
| Targeted Physical and Psychosocial Interventions for Spine Pain | | |
| The specific aim of this study is to investigate the effects of a novel biopsychosocial intervention among patients with low back pain and to identify the subgroup of patients who benefit from combined physical and psychosocial interventions based on Neuropeptide Y, a neurotransmitter involved in the stress response to pain and with the potential to predict patients likely to have a maladaptive response to pain. | | |

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|--|---|--------------|
| 1R01HS019624-01 (G.K. Fitzgerald) Agency for Healthcare Research and Quality Enhancing the Effectiveness of Physical Therapy for People with Knee Osteoarthritis The specific aim of this study is to compare the effects of delivering exercise therapy or exercise therapy supplemented with manual therapy techniques using periodic "booster sessions" versus not using "booster sessions" in reducing pain and improving physical function at one and two year follow-up periods. | 12/01/10-11/30/14 \$1,451,723.00 (total directs) | 2.4 calendar |
| R01 (D.S. Teyhen, PI) NIH/NIAMS Efficacy of Supervised Neuromuscular Training to Improve Risk Factors Associated With Lower Extremity Injuries in US Army Soldiers: A Randomized Trial The specific aim of this study is to investigate the efficacy of a supervised NMSTP to change neuromuscular and biomechanical risk factors previously identified with the development of lower extremity overuse injuries among active duty military service members. | 10/01/11-09/30/15 \$1,655,876 (total directs) | 2.4 calendar |
| R01 (A.D. Delitto, PI) NIH/NIAMS Overcoming Obstacles to Recovery: A Randomized Trial of a Cognitive Behavioral Intervention For Primary Care Patients with Low Back Pain The specific aim of this study is to compare the cost-effectiveness between an immediate versus a stepped care approach in the management of patients with acute low back pain in the primary care setting. | 10/01/11-09/30/15 ~\$6 million (total directs) | 1.2 calendar |
| S.Z. George, PI Peer Reviewed Orthopaedic Research Program Effects of Psychosocial Education in the Secondary Prevention of Activity Limiting Musculoskeletal Pain in Soldiers The specific aim of this study is to investigate if a psychosocial education program (PSEP) is of benefit to active duty service members who have musculoskeletal activity restrictions during basic training. We hypothesize that after receiving the PSEP in conjunction with standard treatment, Soldiers will have lower psychological distress, better pain coping skills, and report lower pain intensity. | 10/01/11-09/30/15 \$1,500,000 (total directs) | 2.4 calendar |
| J. Hu, PI Deployment Related Medical Research Program Advanced Robotic Technology Enhancing Rehabilitation in Soldiers and Civilians with Neurological and Musculoskeletal Injuries The specific aim of this project is to develop an integrated reconfigurable haptic feedback robotic system that allows the implementation of multiple training procedures for upper and lower limbs. | 10/01/11-09/30/15 \$1,617,420 (total directs) | .6 calendar |
| M.E. Robinson, PI Deployment Related Medical Research Program Determining the Psychosocial Well Being of Active Duty Service Members and Veterans in Operation Iraqi Freedom and Operation Enduring Freedom The specific aim of this project is to continuously monitor the psychosocial well being (ie, quality of life, mental health, and pain) of active duty service members and veterans in Operation Iraqi Freedom and Operation Enduring Freedom and examine risk factors (ie, combat environment, individual sociodemographic characteristics, etc.) that may impact changes in psychosocial well being in the Prevention of Low Back in Military study cohort across different points in time: pre-deployment (baseline), during deployment, and post-deployment. | 10/01/11-09/30/15 \$350,000 (total directs) | .6 calendar |
| Texas State University Faculty Funds Effectiveness and Costs of Managing Patients with Low Back Pain Using a Value-based Payment Model | 10/01/11-09/30/12 \$35,000 (total directs) | |

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

Completed Research Support

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

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

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

The specific aim of this study is to create a reconfigurable haptic feedback non-treadmill rehabilitation robotic system for upper and lower limb rehabilitation, develop progressive rehabilitation training procedures for retraining tasks involving upper and lower limbs, create a virtual reality environment for reconfigurable rehab training, and develop a mechanism for telepresence rehab training consultation and remote supervision

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

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

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

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

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

Foundation for Physical Therapy

Comparison of the effectiveness of three manual physical therapy techniques in a subgroup of patients with low back pain who satisfy a clinical prediction rule: A randomized clinical trial

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

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

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

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

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

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

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

Comparison of the effectiveness of three manual physical therapy techniques in a subgroup of patients with low back pain who satisfy a clinical prediction rule: A randomized clinical trial

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

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

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

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

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

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

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

Rehabilitative ultrasound imaging

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

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

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

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

Award #: n/a, Role: PI

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

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

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

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

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

Foundation for Physical Therapy Research Grant (01/01/04 – 12/31/04) (\$40,000)

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

Award #: n/a, Role: PI

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

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

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

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

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

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

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

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

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

Sports Physical Therapy Section Small Grant Program (01/1/03 - 12/31/03) (\$1500)

Competency in musculoskeletal medicine: physical therapist vs. physician performance

Award #: n/a, Role: PI

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

Orthopaedic Section Clinical Research Grant Program (01/1/03-12/31/03) (\$7500) and Wilford Hall Medical Center Commander Intramural Research Funding Program (01/01/03 – 12/31/03) (\$42,591.75) and Pennsylvania Physical Therapy Association Research Fund Award (01/01/03 – 12/31/03) (\$1000) Association between impairments and function in response to physical therapy in individuals with patellofemoral pain syndrome

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

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

Foundation for Physical Therapy Research Grant Program (01/1/02 - 12/31/02) (\$40,000) and Wilford Hall Medical Center Commander Intramural Research Funding Program (01/01/02) (\$40,000)

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

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

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

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

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

Award #: n/a, Role: PI

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

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

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

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

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

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

Gait adaptations in individuals with knee osteoarthritis

Award #: n/a, Role: PI

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

ONGOING RESEARCH & SCHOLARLY ACTIVITY:

1. Impact of the U.S. Army-Baylor University Doctoral Program in Physical Therapy internship program on access to care, US Army-Baylor University Doctoral Program in Physical Therapy, Stage: IRB approval
2. Knowledge of acute low back pain management among physical therapists and physicians in the uniformed services, US Army-Baylor University Doctoral Program in Physical Therapy, Stage: IRB approval
3. Enhancing the effectiveness of physical therapy for people with knee osteoarthritis, US Army-Baylor University Doctoral Program in Physical Therapy, University of Pittsburgh, University of Utah, and University of Otago (New Zealand), Stage: Grant review.

4. Effects of psychosocial education in the secondary prevention of activity limiting musculoskeletal pain in soldiers, US Army-Baylor University Doctoral Program in Physical Therapy and University of Florida, Stage: Grant review.
5. Efficacy of supervised neuromuscular training to improve risk factors associated with lower extremity injuries in US Army Soldiers: A randomized trial, US Army-Baylor University Doctoral Program in Physical Therapy and University of Florida, Stage: Grant review.
6. 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.
7. Advanced robotic technology enhancing rehabilitation in Soldiers and civilians with neurological and musculoskeletal injuries, US Army-Baylor University Doctoral Program in Physical Therapy, Harvard University, Massachusetts Institute of Technology, and Spaulding Rehabilitation, Stage: Grant review.
8. 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, US Army-Baylor University Doctoral Program in Physical Therapy and University of Utah, 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/manuscript preparation.
10. Cost-effectiveness of a treatment-based classification approach compared to usual care in the management of low-back pain in outpatient physical therapy, US Army-Baylor University Doctoral Program in Physical Therapy and University of Pittsburgh, Stage: Manuscript preparation.
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, Regis University, and Polestar Pilates Center, Stage: Data collection.
12. Lower extremity physical performance in healthy active duty service members: A reliability study, US Army-Baylor University Doctoral Program in Physical Therapy, Stage: Data collection.

TEACHING RESPONSIBILITIES:

1. Teaching Assistant, Manual Therapy (Extremities and Spine), Department of Physical Therapy, University of Pittsburgh, 2000.
2. Teaching Assistant, Musculoskeletal Causes, Analysis, and Interventions in Movement Dysfunction I (Lower Extremity), Department of Physical Therapy, University of Pittsburgh, 2000.
3. Teaching Assistant, Evidenced-Based Practice I, Department of Physical Therapy, University of Pittsburgh, 2000, 2001, 2002.
4. Teaching Assistant, Evidenced-Based Practice II, Department of Physical Therapy, University of Pittsburgh, Spring 2001, 2002.
5. Teaching Assistant, Evidenced-Based Practice III, Department of Physical Therapy, University of Pittsburgh, Summer 2001, 2002.
6. Instructor/Lecturer, Functional Anatomy of the Wrist and Hand, Department of Physical Therapy, University of Pittsburgh, 2002.
7. Instructor/Lecturer, Doctoral Seminar, Department of Physical Therapy, University of Pittsburgh, 2002.
8. Guest Lecturer and Research Advisor, U.S. Army-Baylor University Doctoral Program in Physical Therapy, 2003, 2004, 2005.
9. Guest Lecturer/Lab Instructor, U.S. Army Advanced Physical Therapy Course on Evaluation and Treatment of the Spine, 2003.
10. Guest Lecturer, U.S. Army Post-professional Doctoral Program in Orthopaedic Manual Physical Therapy, 2003, 2004, 2004.
11. Faculty, The COL Douglas A. Kersey Advanced Clinical and Operational Practice Course for Physical Therapy Officers, 2005, 2006, 2007, 2008, 2009.
12. Faculty, U.S. Air Force Physical Therapy OZO Course, 2005, 2006, 2007, 2008, 2009.

13. Faculty, U.S. Army-Baylor University Doctoral Program in Physical Therapy, 2005, 2006, 2007, 2008, 2009 (Research Design, Statistics, Evidence-based Practice I-IV).
14. Faculty, U.S. Army Post-professional Doctoral Program in Orthopaedic Manual Physical Therapy, 2005, 2006, 2007, 2008, 2009 (Research Design, Statistics).
15. Faculty, Colonel Mary Lipscomb Hamrick Research Course, 2008, 2009.

MILITARY EDUCATION & TRAINING:

1. Basic Cadet Training, U.S. Air Force Academy, Colorado Springs, CO, Aug 1990.
2. Survival, Evasion, Resistance, and Escape (SERE), U.S. Air Force Academy, Colorado Springs, CO, Jun 1991.
3. Water Survival, U.S. Air Force Academy, Colorado Springs, CO, Jun 1991.
4. Basic Free Fall Parachuting, U.S. Air Force Academy, Colorado Springs, CO, Jun 1991.
5. "Combat Casualty Care Course (C4)", Camp Bullis, San Antonio, TX, Jan 1997.
6. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", Sheppard AFB, Wichita Falls, TX (37.5 contact hours), Apr 1997.
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, Dec 1998.
10. Instructor/Evaluator, Expert Field Medical Badge Course (EFMB), Ellsworth AFB, SD, Jun 1999.
11. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", Sheppard AFB, Wichita Falls, TX (40 contact hours), Jul 1999.
12. Instructor/Evaluator, Expert Field Medical Badge Course (EFMB), Camp Shelby, MS, Nov 1999.
13. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", Wilford Hall Medical Center, San Antonio, TX (72 contact hours), Mar 2000.
14. "Aerospace Physiological Training", Columbus AFB Physiological Training Unit, Columbus AFB, Columbus, MS, Jun 2000.
15. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", San Antonio, TX (24 contact hours), Feb 2001.
16. "Medical Unit Readiness Training", Camp Risington, Wilford Hall Medical Center, Lackland AFB, San Antonio, TX, Oct 2003.
17. Combat Arms Training", Lackland AFB, San Antonio, TX, Oct 2003.
18. "U.S. Air Force Physical Therapy/Occupational Therapy Management Symposium", San Antonio, TX (23.25 contact hours), May 2005.
19. Air Command and Staff College, Nov 2006.

COMMUNITY INVOLVMENT:

- | | |
|-----------|---|
| 1992-1994 | Big Brother, Big Brothers Big Sisters of America , Pikes Peak Chapter, Colorado Springs, CO |
| 1999-2000 | Teacher, Men's weekly Bible study, Columbus Air Force Base |
| 2002-2004 | Game Director, Awana Clubs Program, Northeast Bible Church , San Antonio, TX |
| 2004-2005 | Team Assistant Coach, Soccer Association for Youth of San Antonio , San Antonio, TX |
| 2005-2007 | Sunday School Teacher, 4-year-old and 3 rd grade class, Northeast Bible Church , San Antonio, TX |
| 2004-2008 | Member, Praise and Worship Team, Northeast Bible Church , San Antonio, TX |
| 2007-2008 | Chair, BRIDGE Team, Capital Giving Campaign, Northeast Bible Church , San Antonio, TX |
| 1990- | Member, Youth Leadership Forum , Birmingham, Alabama (program to develop leadership potential in youth) |
| 1990- | Active church member (various local churches based on current place of residence) |
| 1994- | Member, Baptist Student Union Alumni Association |
| 1995- | Member, Aircraft Owner's and Pilots Association (Private Pilot – 120 flying hours). |
| 2007- | Member (#0C0705281307), Space Adventures' Spaceflight Club |
| 2007- | Member, San Antonio Petroleum Club , San Antonio, TX |
| 2007- | Member, U.S. Air Force Academy Sabre Society , Colorado Springs, CO |
| 2007- | Volunteer, Meals on Wheels of San Antonio , Christian Senior Services, San Antonio, TX |

- 2007- -Pine Cove Ambassador, a community faith outreach program for Pine Cove Christian Camps
- 2008- Sunday School Teacher, 4-year-old class, [Believer's Fellowship](#), San Antonio, TX
- 2008- Member, [University of Pittsburgh Chancellor's Circle](#)
- 2009- Member, [University of Texas Longhorn Foundation](#), Austin, TX