

Julie M. Whitman, PT, DSc, OCS, FAAOMPT

Orthopaedic Manual Physical Therapy Fellowship Program & Transition DPT in Musculoskeletal Management Director,
EIM Institute of Health Professions

Assistant Professor, School of Physical Therapy, Regis University

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EDUCATION

2001 Baylor University, Waco TX 76798
Degree: Doctorate of Science in Physical Therapy (DSc)

2000 US Army Orthopaedic and Manual Physical Therapy Residency Program, Ft Sam Houston TX 78234
Certification: Certificate in Advanced Clinical Competencies

1994 US Army-Baylor University Graduate Program in Physical Therapy, Ft Sam Houston TX 78234
Degree: Masters Degree in Physical Therapy (MPT)

1992 United States Air Force Academy, Colorado Springs, CO 80841
Degree: BS in Biology

EMPLOYMENT

Nov 10-	Present	Transition DPT in Musculoskeletal Management Director, EIM Institute of Health Professions
Aug 08-	Present	Manual Physical Therapy Fellowship Program Director, Evidence In Motion
Aug 05 –	Present	Assistant Professor, Department of Physical Therapy, Regis University, Denver CO
Aug 05 -	Nov 10	Faculty, Regis University Manual Physical Therapy Fellowship Program, Denver, CO
Feb 06 -	May 08	Physical Therapist, CU Wardenburg Sports Medicine Clinic, Boulder, CO
Sep 04 –	Jan 06	US Air Force Reserves, Individual Medical Augmentee – Buckley AFB, Denver, CO
Sep 04 –	Aug 05	Affiliate Faculty, Regis University, Denver, CO
Sep 04 –	Jun 05	Physical Therapist, PRO Physical Therapy, Boulder, CO
Jan 03 –	Aug 04	Director of Physical Therapy, Kirtland AFB, NM
Jun 02 –	Jan 03	Director of Research & Practice, Physical Medicine Flight; Wilford Hall Medical Center, Lackland AFB, TX
May 02 -	May 06	Assistant Professor, U.S. Army-Baylor University Postprofessional Doctoral Program in Orthopaedic and Manual Physical Therapy
Jan 02 –	Jun 02	Education & Research Coordinator, Physical Medicine Flight, Wilford Hall Medical Center, Lackland AFB, TX
Jan 01 –	Dec 01	Education & Training Coordinator, Physical Therapy Element, Wilford Hall Medical Center, Lackland AFB, TX
Jul 99 –	Jan 01	Resident, U.S. Army Orthopaedic and Manual Physical Therapy Residency Program. Brooke Army Medical Center, Ft Sam Houston, TX
Jun 98 –	Jun 99	Leader, Physical Therapy Element, Malcolm Grow Medical Center, Andrews AFB, MD

Jun 97 – Jun 98 Chief, Sports Medicine Clinic, Bolling AFB, Washington, DC
 Jul 94 – Jun 97 Staff Therapist, David Grant Medical Center, Travis AFB, CA

PROFESSIONAL ACTIVITIES / SERVICE

2006 - Present Physical Therapy Journal Steering Committee
 2006 – 2009 The Bottom Line Committee, Physical Therapy Journal
 2007 - 2008 Abstract Reviewer, Orthopaedic Section, APTA
 2006 – 2007 Reviewer, Archives of Physical Medicine and Rehabilitation
 2005 – 2007 Secretary, Mile High District, Colorado Chapter of the APTA
 2005 Guest Associate Editor for the Special Issues on Primary Care Physical Therapy, Journal of Orthopaedic and Sports Physical Therapy (Oct and Nov 2005 issues)
 2004 – 2007 Practice Affairs Committee, American Academy of Orthopaedic Manual Physical Therapists
 2003 – 2007 Board of Examiners, American Academy of Orthopaedic Manual Physical Therapists
 2003 – 2006 Editorial Review Board, Journal of Orthopaedic and Sports Physical Therapy
 2003 – 2004 Credentials Committee Member, Kirtland Air Force Base Medical Group
 2002 – 2003 Reviewer, Journal of Orthopaedic and Sports Physical Therapy
 2003 – 2004 Orthopaedic Item Writer for the American Board of Physical Therapy Specialties
 2001 – 2002 Peer review panel member for the Continuing Education Review / Approval Program administered by the Texas Physical Therapy Association
 2001 Government Liaison for the United States Medical Research and Materiel Command Congressionally Directed Medical Research Programs Peer Review Panel on Breast Cancer

PROFESSIONAL AWARDS / RECOGNITION

2009 Rose Excellence in Research Award. Research Team: Mike Walker, Bob Boyles, Brian Young, Joe Strunce, Matt Garber, Julie Whitman, Gail Deyle, and Rob Wainner.
 2008 Excellence in Teaching Award, Dept of Physical Therapy, Regis University, Denver Colorado.
 2008 APTA's Jack Walker Award. Research Team: Josh Cleland, Paul Glynn, Julie Whitman, Sarah Eberhart, Cameron MacDonald, John Childs
 2007 APTA's Section on Geriatrics Excellence in Research Award
 2006 JOSPT George J. Davies - James A. Gould Excellence in Clinical Inquiry Award
 2006 Excellence in Research Award, American Academy of Orthopaedic Manual Physical Therapists. Research Team: Josh Cleland, Paul Glynn, Julie Whitman, Sarah Eberhart, Cameron MacDonald, John Childs
 2006 Kaltenborn "Teach I Must" Award, American Academy of Orthopaedic Manual Physical Therapists
 2006 Excellence in Teaching Award, Dept of Physical Therapy, Regis University, Denver Colorado.
 2004 Discovery Health Clinical Excellence Award in Back Care (best research platform presentation at the conference), International Federation of Orthopaedic Manipulative Therapists Conference, Capetown South Africa.
 2004 Rose Excellence in Research Award. Research Team: Timothy Flynn, Julie Fritz, Julie Whitman, Rob Wainner, Jake Magel, Dan Rendeiro, Barb Butler, Matt Garber, and Steve Allison.
 2002 Excellence in Research Award, American Academy of Orthopaedic Manual Physical Therapists. Research Team: Timothy Flynn, Julie Fritz, Julie Whitman, Rob Wainner, Jake Magel, Dan Rendeiro, Barb Butler, Matt Garber, and Steve Allison.

2001	Outstanding Clinical Educator of the Year for the State of Texas
1992-2003	Military Decorations: 2 AF Meritorious Service Medal, 2 AF Commendation Medals, 1 Army Commendation Medal, 6 AF Outstanding Unit Ribbons, and 2 National Defense Service Medals.
2001	Company Grade Officer of the Quarter for the Physical Therapy Element, Physical Medicine Flight (PMF), and Medical Operations Squadron – Second Quarter **
2001	PMF & Medical Operations Group (MOG) Company Grade PT of the Year**
2001	PMF and MOG Company Grade Military Officer of the Year**
2001	Air Education and Training Command Physical Therapy Company Grade PT of the Year**

*** Note: Received at Wilford Hall Medical Center. The Medical Operations group consisted of over 250 multi-disciplinary providers. Seventeen physical and occupational therapists were in the Physical Medicine Flight (PMF), and approximately 40 physical therapists are in the Air Education and Training Command. "Company grade officers" are providers typically within the first 10 – 12 years of clinical practice.*

MEMBERSHIP, POSITIONS in SCIENTIFIC SOCIETIES, FELLOWSHIPS

- American Academy of Orthopaedic Manual Physical Therapists [Fellow 2001 – present; Board of Examiners 2002 – present; Practice Affairs Committee 2004 – present]
- American Physical Therapy Association: Orthopaedic, Research, and Education Sections
- International Federation of Manipulative Therapists - US representative in Research Database designed to "share knowledge internationally, foster collaboration, and stimulate EBM research globally".

LICENSURE & BOARD CERTIFICATION

- Board Certified Clinical Specialist in Orthopaedic Physical Therapy- American Board of Physical Therapy Specialties – 2000 - Present.
- Colorado Physical Therapy License: 1994 – 2011; California Physical Therapy License: 2009 – present.

LEADERSHIP EDUCATION

- Air Force Squadron Officer School, 1998 (6 week in-residence leadership course)
- Air Force Lieutenant's Professional Development Program, 1995 (one week leadership course)

PUBLICATIONS

Peer-Reviewed Manuscripts/Works

- Mintken PE, Cleland JA, Carpenter KJ, Bieniek ML, Keirns M, Whitman JM. Some factors predict successful short-term outcomes in individuals with shoulder pain receiving cervicothoracic manipulation: a single-arm trial. *Phys Ther.* 2010 Jan;90(1):26-42. Epub 2009 Dec 3.
- 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 Oct;9(10):802-8. Epub 2009 Jul 25.
- Whitman JM, Cleland JA, Mintken P, Keirns M, Bieniek ML, Albin SR, Magel J, McPoil TG. Predicting Short-Term Response to Thrust and Non-Thrust Manipulation and Exercise in Patients Post Inversion Ankle Sprain. *J Orthop Sports Phys Ther.* 2009 Mar;39(3):188-200.
- Childs JD, Cleland JA, Elliott JM, Teyhen DS, Wainner RS, Whitman JM, Sopky BS, Godges JJ, Flynn TW. Neck Pain: A Clinical Practice Guideline linked to the International Classification of Functioning, Disability, and Health from the Orthopaedic Section of the American Physical Therapy Association. *J Orthop Sports Phys Ther.* 2008 Sep;38(9):A1-A34. Epub 2008 Sep 1. Erratum in: *J Orthop Sports Phys Ther.* 2009 Apr;39(4):297.

- Cleland JA, Noteboom JT, Whitman JM, Allison SC. A primer on selected aspects of evidence-based practice relating to questions of treatment. Part 1: asking questions, finding evidence, and determining validity. *J Orthop Sports Phys Ther*; 2008 38(8):476-84. Epub 2008 Aug 1.
- Noteboom JT, Allison SC, Cleland JA, Whitman JM. A primer on selected aspects of evidence-based practice to questions of treatment. Part 2: interpreting results, application to clinical practice, and self-evaluation. *J Orthop Sports Phys Ther*; 2008. 38(8):485-501. Epub 2008 Aug 1.
- Walker MJ, Boyles RE, Young BA, Strunce JB, Garber MB, Whitman JM, Deyle G, Wainner RS. The Effectiveness of Manual Physical Therapy and Exercise for Mechanical Neck Pain: A Randomized Clinical Trial. *Spine*, 2008; 33(22):2371-8.
- Cleland JA, Childs JD, Whitman JM. Psychometric Properties of the Neck Disability Index and Numeric Pain Rating Scale in Patients with Neck Pain. *Archives of Physical Medicine and Rehabilitation*. 2008; 89:69-74.
- Abbott JH, Flynn TW, Fritz JM, Hing WA, Reid D, Whitman JM. Manual physical assessment of spinal segmental motion: intent and validity. *Manual Therapy*, Nov 6, 2007.
- Cleland JA, Fritz JM, Whitman JM, Heath R. Predictors of Short-term Outcomes in Patients with Cervical Radiculopathy. *Physical Therapy*. 2007; 87:1619-1632.
- 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 Note. *Orthopedic Division Review*, 2007: 2:31-36.
- Cleland JA, Glynn P, Whitman JM, Eberhart SL, MacDonald C, Childs JD. The Short-Term Effects of Thrust versus Non-Thrust Manipulation Directed at the Thoracic Spine in Patients with Neck Pain: A Randomized Clinical Trial. *Physical Therapy*, 2007 87: 431-440.
- 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.
- Cleland JA, Childs JD, Fritz JM, Whitman JM, Eberhart SL. Development of a Clinical Prediction Rule for Classifying Patients with Neck Pain Who Demonstrate Short-Term Improvement With Thoracic Spine Thrust Manipulation. *Physical Therapy*, 2007 Jan;87(1):9-23. Epub 2006 Dec 1.
- Furto ES, Cleland JA, Whitman JM, Olson KA. Manual Physical Therapy Interventions and Exercise for Patients with Temporomandibular Disorders. *Cranio*, 2006 Oct;24(4):283-91.
- Cleland JA, Childs JD, Fritz JM, Whitman JM. Interrater reliability of the history and physical examination in patients with mechanical neck pain. *Arch Phys Med Rehabil*, 2006 Oct;87(10):1388-95.
- Whitman JM, Flynn TW, Childs JD, Wainner RS, Gill HE, Ryder MG, Garber MB, Bennett AC, Fritz JM. A Comparison Between Two Physical Therapy Treatment Programs for Patients with Lumbar Spinal Stenosis: A Randomized Clinical Trial. *Spine*, 2006 Oct 15;31(22):2541-9.
- MacDonald C, Whitman JM, Cleland JA, Smith MB, Hoeksma H. Clinical outcomes following manual physical therapy and exercise for hip osteoarthritis. A case series. *J Orthop Sports Phys Ther*, 2006;36(8):588-599.
- Cleland JA, Fritz JM, Whitman JM, Childs JD, Palmer JA. The Use of a Lumbar Spine Manipulation Technique by Physical Therapists in Patients who Satisfy a Clinical Prediction Rule: A Case Series. *J Orthop Sports Phys Ther*, 2006;36:209-214.
- Cleland JA, Fritz JM, Whitman JM, Palmer JA. The reliability and construct validity of the neck disability index and patient specific functional scale in patients with cervical radiculopathy. *Spine*. Mar 1 2006;31(5):598-602.
- Harris KD, Heer DM, Roy TC, Santos DM, Whitman JM, Wainner RS. Reliability of a measurement of neck flexor muscle endurance. *Phys Ther*. Dec 2005;85(12):1349-1355.
- Cleland JA, Whitman JM, Fritz JM, Palmer JA. Manual Physical Therapy, Cervical Traction, and Neuromuscular Re-Education in Patients with Cervical Radiculopathy: A Case Series. *J Orthop Sports Phys Ther*. 2005;35(12):802-811.
- 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; 86:1745-1752.
- 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. *Manual Therapy*, 2005;10: 224-231.
- Childs JD, Whitman JM, Pugia ML, Sizer PS, Flynn TW, Delitto A. A description of physical therapists' knowledge in managing musculoskeletal conditions. *BMC Musculoskeletal Disorders* 2005, 6:32 (17Jun2005).

- 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.
- Boyles RE, Flynn TW, Whitman JM. Manipulation following regional interscalene anesthetic block for shoulder adhesive capsulitis: A case series. *Manual Therapy*. 2005 10(1):80-87.
- Whitman JM, Childs JD, Fritz JM. The influence of experience and specialty certifications on clinical outcomes for patients with LBP Treated Within a Standardized Physical Therapy Management Program. *J Orthop Sports Phys Ther*, 2004; 34(11):662-675.
- Cleland J, Whitman J, Fritz J. Effectiveness of Manual Physical Therapy to the Cervical Spine in the Management of Lateral Epicondylalgia: A Retrospective Analysis. *J Orthop Sports Phys Ther*, 2004; 34(11): 713-724.
- Childs JD, Fritz JM, Piva SR, Whitman JM. Proposal of a classification system for patients with neck pain. *J Orthop Sports Phys Ther*. Nov 2004;34(11):686-696; discussion 697-700.
- Cliborne AV, Wainner RS, Rhone DI, Judd CD, Fee TT, Matekel RL, Whitman JM. Clinical hip tests and a functional squat test in patients with knee osteoarthritis: Reliability, prevalence of positive test findings, and short-term response to hip mobilization. *J Orthop Sports Phys Ther*. Nov 2004;34(11):676-685.
- 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*. Feb 2004;84(2):173-190.
- Whitman JM, Flynn TW, Fritz JM. Nonsurgical management of patients with lumbar spinal stenosis: a literature review and case series of three patients managed with physical therapy. *Physical Medicine & Rehabilitation Clinics of North America*, 2003; 14:77-101.
- Whitman JM, Fritz JM, Boyles RE. Evidence In Practice: Is a continued program of joint mobilization, stretching, and mobility exercises effective for improving function in a patient with adhesive capsulitis, or should an alternative approach be used? *Physical Therapy*, 2003; 83:486-496
- Flynn TW, Fritz JM, Wainner R, Whitman JM. The Audible Pop is Not Necessary for Successful Spinal High Velocity Thrust Manipulation in Individuals with Low Back Pain. *Archives of Physical Medicine and Rehabilitation*, 2003; 84:1057-1060.
- Flynn T, Fritz J, Whitman J, Wainner R, Magel J, Rendeiro D, Butler B, Garber M, Allison S. A Clinical Prediction Rule for Classifying Patients with Low Back Pain Who Demonstrate Short Term Improvement With Spinal Manipulation. *Spine*, 2002; 27:2835-2843.

Non-Peer Reviewed Publications: Published Educational CD-ROMs

- Flynn TW, Cleland JA, Whitman JM. User's Guide to the Musculoskeletal Examination. Evidence in Motion; 2007 (www.evidenceinmotion.com)
- Whitman JM, Flynn TW, Wainner R, Magel J: Orthopaedic Manual Physical Therapy Management of the Lumbo-Pelvic and Hip Region. Manipulations, Inc. San Antonio, TX. 2002. Distributed by Manipulations, Inc (www.manipulationsinc.com).
- Wainner R, Flynn T, Whitman J: Spinal and Extremity Manipulation: The Basic Skill Set for Physical Therapists. Manipulations, Inc. San Antonio, TX. 2001. Distributed by Manipulations, Inc (www.manipulationsinc.com).
- Flynn TW, Whitman JM, Magel J: Orthopaedic Manual Physical Therapy Management of the Cervical-Thoracic Spine & Ribcage. Manipulations, Inc. San Antonio, TX. 2000. Distributed by Manipulations, Inc (www.manipulationsinc.com).

Non-Peer Reviewed Publications and Other Creative Works (Guest Editorials, Home Study Courses, Educational Modules)

- Whitman JM, Cleland J, Mintken P. Clinical prediction rules in physical therapy: coming of age? *J Orthop Sports Phys Ther*. 2009 Mar;39(3):231-3.
- Wainner RS, Whitman JM, Cleland JA, Flynn TW. Regional Interdependence: A Musculoskeletal Examination Model Whose Time Has Come. *J Orthop Sports Phys Ther*, 2007; 37(11):658-660.
- Wainner RS, Whitman JM. First-Line Interventions for Hip Pain: Is It Surgery, Drugs, or Us? *J Orthop Sports Phys Ther*, 2007;37(9):511-513.
- Childs JD, Whitman JM. Guest Editorial, Special Issue on Direct Access Physical Therapy. Advancing physical therapy practice: The accountable practitioner. *J Orthop Sports Phys Ther*, 2004, 35(10):624-627.

- Whitman JM. Guest Editorial: Pregnancy, Low Back Pain, and Manual Physical Therapy Interventions. *J Orthop Sports Phys Ther*, 2002, 32(7):314-317.
- Childs JD, Whitman JM, Fritz JM, Piva S, Young B. The Lower Cervical Spine. *Physical Therapy for the Cervical Spine & Temporomandibular Joint*. La Crosse, WI: Orthopaedic Section of the APTA, 2003.
- Wainner R, Whitman J. Upper Quarter Screening Examination. An educational module for dissemination to military physical therapists. Air Force RSVP Training Program.
- Wainner R, Whitman J. Lower Quarter Screening Examination. An educational module for dissemination to military physical therapists. Air Force RSVP Training Program.
- Wainner R, Whitman J, Flynn T. Manipulation: A basic skill set. An educational CD-ROM designed to instruct military physical therapists in a basic skill set of manipulation techniques and provide a summary of the available evidence to support these techniques. Air Force RSVP Training Program.

GRANT AND FUNDING ACTIVITY

- Bob Doctor Research Grant, Colorado Chapter of the American Physical Therapy Association (APTA): *Epidural Steroid Injection versus Epidural Steroid Injection and Physical Therapy in the Management of Lumbar Spinal Stenosis; a Randomized Clinical Trial*. \$6,500; Awarded: 2008. Role: Co-Investigator.
- Foundation for Physical Therapy 2007 Clinical Research Grant: Validation of a Clinical Prediction Rule to Identify Patients with Neck Pain Likely to Benefit from Thoracic Spine Thrust Manipulation. \$40,000. Awarded: 2007. Role: Co-Investigator.
- American Academy of Orthopaedic Manual Physical Therapists: Development of a Clinical Prediction Rule to Identify Patients With Shoulder Impingement Likely to Benefit from Manual Physical Therapy Interventions and Exercise. \$5,000; Awarded: 2006. Role: Co-Investigator.
- American Academy of Orthopaedic Manual Physical Therapists: Comparison of the Effectiveness of Mobilization and Manipulation of the Thoracic Spine in Patients with Mechanical Neck Pain: a Randomized Clinical Trial. \$3,000. Awarded: 2005. Role: Co-Investigator.
- Orthopaedic Section, APTA: Development of a Clinical Prediction Rule to Identify Patients Status Post Inversion Ankle Sprain Likely to Benefit from Manual Physical Therapy Interventions and Exercise. \$7,500; Awarded: 2006. Role: PI.
- Foundation for Physical Therapy 2004 Clinical Research Grant: Effectiveness of an Extension-Oriented Intervention in Patients with Low Back Pain: A Randomized Controlled Trial. \$40,000. Awarded: 2004. Role: Co-Investigator.
- Orthopaedic Section, APTA: The Development of a Clinical Prediction Rule to Identify Patients with Neck Pain Likely to Benefit from Thoracic Manipulation. \$7,500; Awarded: 2004. Role: Co-investigator.
- Small Grant Program, Sports Physical Therapy Section, APTA. Competency in Musculoskeletal Medicine: Physical Therapist vs. Physician Performance. \$1,500. Awarded: 2003. Role: Co-investigator.
- US Surgeon General's Office funding for clinical research through the Wilford Hall Medical Center Clinical Research Squadron, 59th MDW, Lackland AFB: Effectiveness of manual physical therapy and exercise for lumbar spinal stenosis: a prospective, randomized, controlled clinical trial. \$10,000; Awarded 2001. Role: PI.
- Orthopaedic Section, APTA: Effectiveness of manual physical therapy and exercise for lumbar spinal stenosis: a prospective, randomized, controlled clinical trial. \$10,000; Awarded: 2001. Role: PI.

PRESENTATIONS (PLATFORM AND POSTER) at SCIENTIFIC MEETINGS / CONFERENCES

- Denninger T, Whitman JM. Examination Of Clinician Perceptions Following Continuing Education On Treatment Based Classification For Cervical Pain. American Academy of Orthopedic Manual Physical Therapists. Platform. Oct 2010.
- Whitman JM, Wainner RS. Manual Therapy and Exercise for Hip Disorders. 3-hour educational session. APTA National Conference. Denver CO. June 2007.
- Cleland JA, Noteboom JT, Whitman JM. Examining evidence for intervention effectiveness. APTA National Conference. Denver CO. June 2007.
- Whitman JM, Smith MB, Krum L, Flynn TW, Scherer S, Noteboom JT. Assessing student performance in the clinic through analysis of practice projects. Platform. Boston, MA. Feb 2007.

- 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. American Academy of Orthopedic Manual Physical Therapists. Platform. Oct 2006.
- Frazier SB, Whitman JM, Smith MB. Utilization of Kinesiotape in Patients with Shoulder Pain or Dysfunction. Platform. APTA National Conference. Poster. Orlando, FL. June 2006.
- McCain KJ, Smith MB, Whitman JM. Trunk Interventions for Gait Rehabilitation in Subjects with Chronic Stroke. Platform. APTA National Conference. Platform. Orlando, FL. June 2006.
- Byrne CA, Smith MB, Whitman JM. Observed Outcomes Following the Application of Sensory Stimulation and Medication Administration for Patients with Severe Traumatic Brain Injury: A Case Series. Platform. APTA National Conference. Orlando, FL. June 2006.
- Whitman JM, Flynn TW. Non-Invasive Management of Patients with Lumbar Spinal Stenosis. American College of Rheumatology/Association of Rheumatology Professionals. San Diego, CO. Nov 2005.
- Noteboom JT, Whitman JM, Smith MB, Winkler P. Outcomes Matter: Tracking Patient Outcomes to Improve Clinical Care. 2.5 hr presentation with breakouts (neurological, musculoskeletal). APTA/Colorado Chapter 15th Annual Fall Symposium & PT Exhibition. 4 hour block of instruction. Denver, CO. Nov 2005.
- 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. Platform Presentation. American Academy of Orthopaedic and Manual Physical Therapists, Salt Lake City, Utah. Oct 2005.
- Whitman J, Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs J, Bennett A, Fritz J. A comparison between two physical therapy treatment programs for subjects with lumbar spinal stenosis: a randomized clinical trial. Platform Presentation. USA/Japan Conference, University of Colorado, Sep 2005.
- Whitman JM. Manual Physical Therapy for Patients with Ankle and Foot Disorders. Orthopaedic Section Programming (with Dr Tim Flynn, Dr Gail Deyle, and Dr Josh Cleland), Platform Presentation. Combined Sections Meeting, New Orleans LA. Feb 2005.
- Whitman JM. Manual Physical Therapy for Patients with Impingement Syndrome. Orthopaedic Section Programming (with Dr Tim Flynn, Dr Gail Deyle, and Dr Josh Cleland), Platform Presentation. Combined Sections Meeting, New Orleans LA. Feb 2005.
- Whitman J, Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs J, Bennett A, Fritz J. A comparison between two physical therapy treatment programs for subjects with lumbar spinal stenosis: a randomized clinical trial. Platform Presentation. APTA Combined Sections Meeting, New Orleans, LA. Nov 2005.
- Whitman JM, Fritz JM, Childs JD. The influence of experience and specialty certifications on clinical outcomes for patients with low back pain within a standardized physical therapy program. Platform Presentation. 5th Interdisciplinary World Congress on Low Back and Pelvic Pain, Melbourne, Australia, Nov 2004.
- Whitman J, Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs J, Fritz J, Bennett A. A comparison between two physical therapy treatment programs for subjects with lumbar spinal stenosis: a randomized clinical trial. Platform Presentation. International Federation of Orthopaedic Manipulative Therapists Conference, Capetown South Africa, March 2004.
- Whitman JM, Fritz JM, Flynn TW, Wainner RS, Garber MB, Ryder M, Childs JD, Gill H, Atkins D, Bennett A. Measurement Properties of Outcomes Tools for Subjects with Lumbar Spinal Stenosis. Platform Presentation. Combined Sections Meeting, Nashville TN, Feb 2004.
- Whitman JM, Fritz JM, Childs JD. The influence of experience and specialty certifications on clinical outcomes for patients with low back pain. Platform Presentation. Combined Sections Meeting, Nashville TN, Feb 2004.
- Whitman JM. Direct Access Physical Therapy: A Literature Review. Primary Care Programming (with Dr John D Childs and Dr Michael Ryder), Platform Presentation. Combined Sections Meeting, Nashville TN, Feb 2004.
- 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. Platform Presentation. American Academy of Orthopaedic and Manual Physical Therapists, Reno NV, Oct 2003.
- Cliborne AV, Wainner RS, Rhone DI, Judd CD, Fee TT, Whitman JM, Matekel RL, Lowe LM. Reliability of provocative hip tests and a functional squat test in patients with knee osteoarthritis: incidence of positive test findings and short-term

response to hip mobilization. Platform Presentation. American Academy of Orthopaedic and Manual Physical Therapists, Reno NV, Oct 2003.

- Whitman JM, Flynn TW, Fritz JF, Wainner RS, Childs JD. Clinical Factors Identifying Individuals Who Improve Dramatically and Who Fail to Improve With Lumbo-Pelvic Region Manipulation. Platform Presentation. 6th Annual Force Health Protection Conference, Albuquerque NM, Aug 2003.
- Whitman JM. Evaluating Harm and Predicting Failure to Improve with Manipulation. Orthopaedic Section Programming (with Dr Tim Flynn, Dr Julie Fritz, Dr Rob Wainner), 4-hour educational session. Combined Sections Meeting, Tampa FL, Feb 2003.
- Whitman JM, Childs JD. The Use of Manipulation In a Patient with and Ankle Sprain Not Responding to Conventional Management: A Case Report. Platform Presentation (Whitman/Childs) Platform Presentation. Combined Sections Meeting, Boston, MA, Feb 2002.
- Whitman J, Flynn T, Fritz J, Magel J, Rendeiro D, Butler B, Wainner R, Allison S, Garber M: Does manual therapy experience influence reliability for selected pelvic girdle tests and measures? Poster Presentation (Whitman). 4th Interdisciplinary World Congress on Low Back and Pelvic Pain, Montreal, Canada, Nov 2001.
- Whitman JM: Management of three patients with lumbar spinal stenosis using manual therapy, unweighted treadmill ambulation, and foot orthotics. Poster Presentation. American Academy of Orthopaedic Manual Physical Therapists, Charlottesville, VA, Oct 2000.

ASBSTRACTS

- Mintken P, Whitman JM. Implementation of region specific functional outcome measures in an outpatient orthopaedic clinic. American Physical Therapy Association National Meeting Proceedings, 2007.
- 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-A6.
- 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. *Journal of Manual and Manipulative Therapy.* 2006;14:171.
- Cleland JA, Glynn PE, Whitman JM, MacDonald, 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. *Journal of Manual and Manipulative Therapy.* 2006;14:172.
- Whitman JM, Cleland JA, Bieniek ML, Magel JM, Mintken PA, Keirns MA, Childs JD. Outcomes Achieved by Patients Status Post Ankle Sprain Treated with Manual Physical Therapy and Exercise Interventions: A Preliminary Report. *Journal of Manual and Manipulative Therapy.* 2006;14:184.
- Whitman JM, Flynn TW. Non-Invasive Management of Patients with Lumbar Spinal Stenosis. Proceedings of the American College of Rheumatology/Association of Rheumatology Professionals Annual Meeting. San Diego, CO. Nov 2005.
- 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. *Journal of Manual and Manipulative Therapy,* 2005; 13(3):188.
- Furto ES, Olson KA, Whitman JM, Cleland JA. Manual physical therapy interventions and exercise for patients with temporomandibular disorders. *Journal of Manual and Manipulative Therapy,* 2005; 13(3):180.
- Cleland JA, Whitman JM, Fritz JM, Palmer JA. Manual Physical Therapy, Cervical Traction and Strengthening in Patients with Cervical Radiculopathy. *Journal of Manual and Manipulative Therapy.* 2005;13(3): 179.
- Cleland JA, Fritz JM, Whitman JM, Childs JD, Palmer JA. The use of lumbar spine manipulation technique in patients who satisfy a clinical prediction rule: A case series. *Journal of Manual and Manipulative Therapy,* 2005; 13(3):179.
- 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.
- Childs JD, Whitman JM, Pugia ML, Sizer PS, Flynn TW, Delitto A. Competency in musculoskeletal medicine: Physical therapist vs. physician performance. *Journal of Orthopaedic and Sports Physical Therapy,* 35:A, 2005.
- Brennan GP, Fritz JM, Mundorff M, Hunter S, Flynn T, Whitman J. The impact of a manual therapy education intervention on clinical outcomes of patients with neck pain. *Journal of Orthopaedic and Sports Physical Therapy,* 35:A8, 2005.

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INVITED LECTURES & TEACHING EXPERIENCE

- Examination and Selected Interventions for Low Back and Hip Pain in the Aging Population. 2-day day course. Co-taught with Tim Flynn. Mar 2009. (Kearney, NE)
- Manual Physical Therapy Interventions for the Older Adult. 2-day pre-conference course at the Annual AAOMPT Meeting. Oct 2008. (Seattle, WA.)
- Examination and Selected Interventions for the Lower Extremity. 2-day course. Evidence in Motion. Concord Hospital. Sept 2007. (Concord, NH).
- Physical Therapy Management of Patients with Lumbar Spinal Stenosis. Whitman JM, Flynn TW. Grand Rounds, Regis University, Feb 2006. 2 hrs.
- Evidence Regarding Examination and Physical Therapy Referral for the Primary Care Physician. 2 hr lecture to primary care physicians at Buckley AFB Medical Clinic. June 2005 (Buckley Air Force Base, Denver, Colorado)
- Examination and Selected Interventions for the Lumbar Spine and Pelvis. An APTA Advanced Clinical Practice Course for Practicing Clinicians. 1.4 CEUs. Co-instructor with Dr Rob Wainner. May 2005. (Birmingham, AL)
- Manual Physical Therapy Interventions for the Hip Region. Instruction for first-professional DPT students at the University of Utah. Co-instructor with Julie Fritz and Haxby Abbott. 8 hrs. April 2005. (Salt Lake City, UT).
- Manipulation in 1st Professional Physical Therapist Programs: An Academic Faculty Workshop. 12 hrs. Lecture & Lab. Co-instructor with Dr.s Tim Flynn, Rob Wainner, Julie Fritz, Tim Noteboom, and Britt Smith, PT. July 2004. (Denver, CO)
- Manipulative Interventions for the Lumbo-Pelvic-Hip Region. 4 hours. Lab instructor (course led by Andrew Bennett, PT). May 2004. (Baton Rouge, LA)
- Examination and Selected Interventions for the Lumbar Spine and Pelvis. An APTA Advanced Clinical Practice Course for Practicing Clinicians. 1.4 CEUs. Co-instructor with Dr Robert Wainner. April 2004. (Boston, MA)
- Interventions in Musculoskeletal Therapeutics: Cervical and Thoracic Spine Manipulation; Integrating Current Literature with Treatment Application. 3 Credits in the Transitional Doctoral Program for Northern Arizona University. Co-instructor with Mr Britt Smith. Nov 2003. (Flagstaff, AZ)
- Spinal Manipulation: Technical Application & Current Evidence. Lab assistant for Tim Flynn. 2.8 CEUs. Oct 2003.
- Manual Therapy and the Management of Patients with Low Back Pain: Application of Evidence into Practice and Entry-Level Education. 12 hours. Taught with Dr Julie Fritz (led the practical portion of the course). University of Utah, Salt Lake City, UT. Aug 2003.
- Writing Case Reports. Rocky Mountain University of Health Professions (MS Curriculum), July 2003. 8 hrs. (Provo, UT)
- An Evidence-Based, Eclectic Approach to Examination and Intervention of the Shoulder Girdle with an Emphasis on Manual Physical Therapy Interventions. 1.2 CEUs. Co-instructor with Dr Jake Magel. May 2003. (Cortez, CO)
- Examination and Selected Interventions for the Lumbar Spine and Pelvis. An APTA Advanced Clinical Practice Course for Practicing Clinicians. 1.4 CEUs. Co-instructor with Dr Tim Flynn. April 2003. (New York City, NY)
- Evidence - Based Medicine and Outcomes Management for Orthopaedic Physical Therapy. 3 hour class for the US Army-Baylor University Graduate Program in Physical Therapy. Jan 2003. (San Antonio, TX)
- Interventions in Musculoskeletal Therapeutics: Lumbar and Sacroiliac Manipulation; Integrating Current Literature with Treatment Application. 3 Credits in the Transitional Doctoral Program for Northern Arizona University. Co-instructor with Mr Britt Smith. Oct 2002. (Flagstaff, AZ)

- Upper Quarter Physical Examination, Inter-Service Physician Assistant Program, 3 hours, Sept 2002. AMEDD Center and School, Ft Sam Houston, TX. (San Antonio, TX)
- U.S. Air Force Advanced Physical Therapy Course: Evaluation and Management of the Spine. 12 hours. Sept 2002.
- The Lumbo-Pelvic-Hip Complex: An Evidence-Based, Eclectic Approach to Examination and Intervention. 1.2 CEUs. Co-instructor with Dr Jake Magel. Aug 2002. (Cortez, CO)
- Spinal Manipulation: Current Evidence and Technical Application in the Back Pain Population. 1.4 CEUs. Lab Instructor for Dr Tim Flynn. July 2002 (Madison, WI)
- Examination and Selected Interventions for the Lumbar Spine and Pelvis. An APTA Advanced Clinical Practice Course for Practicing Clinicians. 1.4 CEUs. Co-instructor with Dr Joe Godges and Dr Robert Wainner. June 2002. (Cincinnati, OH)
- Manual Physical Therapy Management of the Spine and Extremities. Primary instructor for a 45 hour CME course from Jan – Aug 2002. Wilford Hall Medical Center, San Antonio TX.
- Physical Therapy Management of TMD. Lab Instructor. 4.5 hours of instruction within 40 hour CME course for Department of Defense Dentists. WHMC, May 2002. (San Antonio, TX)
- U.S. Army Advanced Spine Course, 3.6 CEUs; Lab Instructor 1998; Lecturer and Lab Instructor 1999, 2000, 2001, 2002 (San Antonio, TX)
- Exercise prescription for the thoracic region. 4 hours of Cat II instruction for the US Army-Baylor University Postprofessional Doctoral Program in Orthopaedic and Manual Physical Therapy, Nov 2001. (San Antonio, TX)
- Exercise prescription for neck pain. 4 hours of Cat II instruction for the US Army-Baylor University Postprofessional Doctoral Program in Orthopaedic and Manual Physical Therapy, Sept 2001. (San Antonio, TX)
- Neuromusculoskeletal Assessment Course: Evaluation and Assessment of the Spine, 2.4 CEUs; Lab Instructor 1999, Lecturer and Lab Instructor 2000, 2001, 2002 (San Antonio, TX)
- Clinical Instability of the Lumbar Spine – A literature Review. 0.1 CEUs, Primary Lecturer for the TPTA Central District, Sept 20, 2001 (San Antonio, TX)
- Exercise prescription for low back pain. 8 hours of Cat II instruction for the US Army-Baylor University Postprofessional Doctoral Program in Orthopaedic and Manual Physical Therapy, Aug 2001 (San Antonio, TX)
- Spinal Manipulation: Current Evidence and Technical Application in the Low Back Pain Population, 1.0 CEU, Lab Instructor for Dr. Timothy Flynn at Southwest Texas State University, May 19, 2001. (San Marcos, TX)
- Manipulative Management of the Thoracic Spine & Ribcage. 2.2 CEUs, Lab Instructor for Dr. Timothy Flynn at the National Rehabilitation Hospital. March 30 – April 1, 2001. (Washington, DC)
- Lumbo-Pelvic Evaluation and Treatment, 1.4 CEUs, Primary Lecturer, Wilford Hall Medical Center. May 20-21, 2000 (San Antonio, TX)
- Cervico-Thoracic Evaluation and Treatment, 1.4 CEUs, Primary Lecturer, Wilford Hall Medical Center. June 10-11 2000 (San Antonio, TX)
- Exercise Prescription as an Adjunct to Manual Medicine, 1.6 CEUs; Lab Instructor for Mr. Mark Bookhout; 2000 (Green Bay, WI)
- Manual Therapy for the Thoracic Spine & Ribcage, 1.4 CEUs; Lab Instructor for Dr. Timothy Flynn; 2000 (Chicago, IL)
- Evidence Based Approach to LBP: Examination, Manipulation, & Exercise, 1.4 CEUs; Lab Instructor for Dr. Timothy Flynn; 2000 (San Antonio, TX)
- U.S. Army-Baylor Graduate Program in Physical Therapy, Fort Sam Houston, TX, 25 hrs as either Lecturer or Lab Assistant for spinal and joint mobilization / manipulation, 1999 – 2001, 5 hours 2002. (San Antonio, TX)
- Northern Virginia Community College, US Military Physical Therapy Assistant Program – Lecture on Spinal Cord Injury and Rehabilitation, 9 hrs, 1998. (Virginia)

CONTINUING PROFESSIONAL EDUCATION

- Muscle Energy Techniques for the Pelvis, Sacrum, Cervical, Thoracic, & Lumbar Spine, 1994, 21 hrs, Sacramento, CA
- Open and Closed Chain Testing and Rehabilitation: Scientific & Clinical Rationale, 1994, 9 hrs, South Lake Tahoe, CA
- SNAG'S, NAG'S, and PRP'S, 1994, 8 hrs, Sacramento, CA
- David Grand Medical Center Medical Symposium: Sports Medicine, 1995, 10 hrs, South Lake Tahoe, CA
- Orthopaedic Trauma and Rehabilitation for the Lower Quarter (Combined Sections Meeting), 1995, 6.5 hrs, Reno, NV
- 1995 Advances on the Knee and Shoulder – Cincinnati Sports Medicine, 1995, 22 hrs, Hilton Head Island, SC
- Physical Therapy Radiology, 1995, 8 hrs, Andrews AFB, MD
- S-1 Introduction to Spinal Evaluation and Manipulation, 1995, 55 hrs, Minneapolis, MN
- S-3 Advanced Evaluation and Manipulation of the Cranio-Facial Region, Cervical, & Upper Thoracic Spine, 1995, 36 hrs, Vail, CO
- Current Concepts in Wound Care, 1995, 15 hrs, Travis AFB, CA
- S-2 Advanced Evaluation & Manipulation of Pelvic, Lumbar, & Thoracic Spine, 1996, 36 hrs, San Francisco, CA
- Locomotor Biomechanics and Applied Orthotic Therapy (When the feet hit the ground everything changes), 1996, 22 hrs, South Lake Tahoe, CA
- Air Force Physical Therapy Advanced Physical Therapy Course, 1996, 120 hrs (3 weeks), Lackland AFB, TX
- MF-1 Myofascial Manipulation, 1996, 24 hrs, Vail, CO
- Principles of Manual Medicine (MSU), 1996, 40 hrs, Michigan State, East Lansing, MI
- Exercise Prescription as an Adjunct to Manual Medicine (MSU), 1997, 20 hrs, Tucson, AZ
- Being in Balance: A Therapeutic Ball Seminar, 1997, 7 hrs, Sacramento, CA
- Myofascial Release, 1997, 16 hrs, Travis AFB, CA
- Manual Lymph Drainage and Complete Decongestive Physiotherapy for the Upper Extremities (Lerner Academy), 1997, 50 hrs, Travis AFB, CA
- Col Doug Kersey Neuromusculoskeletal Assessment Course, 1997, 72 hrs, AMEDD, Ft Sam Houston, TX
- Strength Training Design: New Concepts & Clinical Applications, 1997, 15 hrs, Washington, DC
- Muscle Energy Level I (MSU), 1997, 40 hrs, Tucson, AZ
- Advanced Evaluation and Treatment of the Spine for Physical Therapists, 1998, 36 hrs, Academy of Health Sciences, Ft Sam Houston, TX
- Exercise Prescription as an Adjunct to Manual Medicine II (MSU), 1998, 20 hrs, Tucson, AZ
- Craniosacral Technique – Part I (MSU), 1998, 40 hrs, Tucson, AZ
- Lumbo-Pelvic Region: Diagnosis and Treatment, 1999, 23 hrs, Andrews AFB, TX
- 1999 Advances on the Knee and Shoulder– Cincinnati Sports Medicine, 1999, 22 hrs, Hilton Head Island, SC
- Mary Lipscomb Hamrick Research Conference, 1999, 16 hrs, Academy of Health Sciences, Ft Sam Houston, TX
- Functional Approach to Musculoskeletal Medicine, 1999, 19.25 hrs, Williamsville, NY
- Functional Massage: A Norwegian Approach, 1999, 13 hrs, Scottsdale, AZ
- American Academy of Orthopaedic Manual Physical Therapists, 1999, 24 hrs, Scottsdale, AZ
- Advanced Manual Therapy Course in Treating Spinal and Peripheral Joint Dysfunction: An Osteopathic Approach, 1999, 28 hrs, Scottsdale, AZ
- Manual Medicine Related to Sports & Occupational Injuries to the Extremities (MSU), 2000, 24 hrs, Tucson, AZ
- Evidence-Based Practice in the 21st Century: Application to the LBP Patient, 2000, 16.5 hrs, Denver, CO
- 2000 Advances on the Knee and Shoulder– Cincinnati Sports Medicine, 2000, 27 hrs, Hilton Head Island, SC
- Muscle Energy Level II (MSU), 2000, 40 hrs, Tucson, AZ
- American Academy of Orthopaedic Manual Physical Therapists, 2000, 21 hours, Charlottesville, VA
- Public Responsibility in Medicine and Research, 2001, 8 hours, Lackland AFB, TX
- 3rd Rocky Mountain Workshop on How to Practice Evidence-Based Health Care: A small group workshop, 2001
- American Academy of Orthopaedic Manual Physical Therapists, 2001, 21 hours, San Antonio, TX
- 4th Interdisciplinary World Congress on Low Back and Pelvic Pain, 2001, 18 hours, Montreal, Canada
- APTA Combined Sections Meeting, Feb 2002, 25 hours, Boston, Massachusetts

- American Academy of Orthopaedic Manual Physical Therapists, 2002, 21 hours, Orlando, Florida
- APTA Combined Sections Meeting, Feb 2003, 25 hours, Tampa, Florida
- American Academy of Orthopaedic Manual Physical Therapists, 2003, 21 hours, Reno, Nevada
- APTA Combined Sections Meeting, Feb 2004, 25 hours, Nashville, Tennessee
- 8th International Federation of Orthopaedic Manipulative Therapists Conf, Mar 04, 24 hrs, Capetown South Africa
- American Academy of Orthopaedic Manual Physical Therapists, Oct 2004, 21 hours, Louisville, Kentucky
- 5th Interdisciplinary World Congress on Low Back and Pelvic Pain, Nov 2004, 18 hours, Melbourne, Australia
- APTA Combined Sections Meeting, Feb 2005, 25 hours, New Orleans, Louisiana.
- ACR/AHRP 2005 Annual Meeting, Nov 2005, San Diego, CA..
- Training workshop sponsored by the National Center for Medical Rehabilitation Research (NCMRR), Dec 2005, Washington, D.C.
- International Symposium on Rehabilitative Ultrasound Imaging. May 2006, San Antonio, TX.
- APTA National Conference, June 2006, Orlando, FL.
- APTA Combined Sections Meeting, Feb 2007, Boston, MA.
- APTA National Conference, June 2007, Denver, CO.
- American Academy of Orthopaedic Manual Physical Therapists, Oct 2007, 21 hours, St Louis, MO.
- APTA National Conference, June 2008, San Antonio, TX.
- American Academy of Orthopaedic Manual Physical Therapists, Oct 2008, 21 hours, Seattle, WA.
- APTA Combined Sections Meeting, Feb 2009, Las Vegas, NV.