

Timothy W. Flynn, PT, PhD
School of Physical Therapy, Regis University, Denver, CO
Colorado Physical Therapy Specialists (www.ColPTs.com), Fort Collins, CO

Education (Civilian):

- 1994-1997 The Penn State University, Center for Locomotion Studies, University Park, PA
PhD in Kinesiology
- 1988-1990 Michigan State University, College of Osteopathic Medicine, East Lansing, MI
MS in Biomechanics (Included an Advanced Individual Manual Medicine
Tutorial with Philip E. Greenman, DO, FAAO, 140 hrs)
- 1979-1983 Marquette University, Milwaukee, WI
BS in Physical Therapy
- 1993: Board Certified in Orthopaedic Physical Therapy
1999: Fellow, American Academy of Orthopaedic Manual Physical Therapists
2008: ASTYM Certification (www.ASTYM.com)
2008: Trigger Point Dry Needling Certification (www.geminfo.com)

Education (Military):

- 1983-2003 Lieutenant Colonel, Retired, United States Army Medical Specialist Corps
1994 Command & General Staff College, Fort Leavenworth, Kansas
1991 Combined Arms Service Staff School, Fort Leavenworth, Kansas
1986 Army Medical Department Officer Advanced Course, Fort Sam Houston, Texas
1983 Army Medical Department Officer Basic Course, Fort Sam Houston, Texas

Licensure Information/Registration Number: Colorado #7272

Employment and Positions Held:

- 2003-Present Associate Professor & Coordinator, Manual Therapy Fellowship, Department of
Physical Therapy, Regis University, Denver, Colorado
- 2006-Present Owner, Colorado Physical Therapy Specialists, Fort Collins, Colorado
- 2001-2003 Affiliate Faculty Transition DPT Program, Department of Physical Therapy,
Regis University, Denver, Colorado
- 2001-2003 Program Director, U.S. Army-Baylor Graduate Program in Physical Therapy.
Army Medical Department Center & School, Fort Sam Houston, Texas
- 1997-2001 Assistant Professor, Associate Professor, Director of Research. U.S. Army-
Baylor Graduate Program in Physical Therapy. Army Medical Department
Center & School, Fort Sam Houston, Texas
- 1997-2003 Faculty & Clinical Supervisor, U.S. Army Orthopaedic Physical Therapy
Residency Program. Brooke Army Medical Center, Fort Sam Houston, Texas
- 1990-1994 Chief, Physical Therapy Troop Medical Clinic William Beaumont Army Medical
Center, El Paso, Texas
- 1986-1988 Chief, Physical Therapy, USA MEDDAC, Fort Drum, New York
- 1984-1985 Contract Physical Therapist, Alamo Physical Therapy Resources, San Antonio,
Texas
- 1983-1985 Staff Physical Therapist, Brooke Army Medical Center, Fort Sam Houston,
Texas

Peer Reviewed Publications:

2008

Flynn TW, Rowe R, Childs J, Magel J, Plock H, Bell S. Manual Physical Therapy- We Speak Gibberish *Journal of Orthopaedic & Sports Physical Therapy*, 38(3):97-98, 2008.

Flynn TW. Less is More. *Manual Therapy*, 13(1): 1, 2008

Flynn, T. (2008). Manual Physical Therapy- We Speak Gibberish. *Journal of Orthopedic and Sports Physical Therapy*, 38 (3), 97-9.

Young, B., Gill, H., Wainner, R., & Flynn, T. (2008). Thoracic Costotransverse Joint Pain Patterns: A Study in Normal Volunteers. *BMC Musculoskeletal Disorders*, 9 (140).

Childs, J., Cleland, J., Elliott, J., et al., Flynn TW. (2008). Neck Pain: Clinical Practice Guidelines Linked to the International Classification of Functioning, Disability, and Health. *Journal of Orthopedic and Sports Physical Therapy*, 38 (9), A1-A34.

Abbott, J. H., Flynn, T., Fritz, J. M. , Hing, W., Reid, D., Whitman JM, (2008). Manual Physical Assessment of Spinal Segmental Motion: Intent & Validity. *Manual Therapy*.

Mintken, P., Metrick, L., & Flynn, T. (2008). Upper Cervical Ligament Testing in a Patient With Os Odontoideum Presenting With Headaches. *Journal of Orthopedic and Sports Physical Therapy*, 38 (8), 465-475.

2007

Wainner RS, Whitman JM, Cleland JA, Flynn TW. Regional Interdependence: A Musculoskeletal Examination Model Whose Time Has Come. *Journal of Orthopaedic & Sports Physical Therapy*, 37(11):658-660, 2007.

Teyhen DS, Childs JD, Flynn TW. Rehabilitative Ultrasound Imaging: When Is a Picture Necessary? *Journal of Orthopaedic & Sports Physical Therapy*, 37(10):579-580, 2007.

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 *Orthopaedic Division Review*, 4:31-35, 2007.

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. *Journal of Manual and Manipulative Therapy*, 15:143-154, 2007.

Young B, Gill M, Wainner RS, Flynn TW. Thoracic Costotransverse Pain Patterns in Asymptomatic Subjects *Journal of Orthopaedic & Sports Physical Therapy*,37(10):A-44, 2007.

Teyhen DS, Flynn TW, Childs JD, Abraham LD. Arthrokinematics in a Subgroup of Patients Likely to Benefit from a Lumbar Stabilization Exercise Program. *Physical Therapy* 87(3):313-325, 2007.

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. *Military Medicine*, 172 (4):440-445 , 2007.

2006

Flynn TW, Wainner RS, Fritz JM. Spinal Manipulation in Professional Level Physical Therapist Education: Can Monitoring Outcomes Influence Low Back Pain Management? *Journal of Orthopaedic & Sports Physical Therapy*,36(8):577-587, 2006.

Flynn TW, Cleland JA, Schaible P. Craniosacral Therapy and Professional Responsibility. *Journal of Orthopaedic & Sports Physical Therapy*, 36(11):834-836, 2006.

Teyhen DS, Flynn TW, Childs JD, Kuklo TR, Rosner MK, Polly DW, Abraham LD. Fluoroscopic Video to Identify Segmental Dysfunction in Patients with Lumbar Segmental Instability. *Spine*, In Press, 2006.

Abbott JH, Flynn TW, Fritz JM, Hing W, Reid D, Whitman JM. Manual Physical Assessment of Spinal Segmental Motion: Intent and Validity. *Manual Therapy*, (in review), 2006.

Young BA, Gill HE, Wainner RS, Flynn TW. Thoracic Costotransverse Joint Pain Patterns: A Study in Normal Volunteers. *Spine*, (in review), 2006.

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*, 31(22): 2541-49, 2006.

Flynn TW, Childs, JD, Fritz JM. The audible pop from high velocity thrust manipulation and outcome in individuals with low back pain. *Journal of Manipulative and Physiologic Therapeutics*, 29(1):40-5, 2006.

Johnston E., Flynn TW, Bean M, Breton M, Scherer M, Dreitzler G, Thomas D. Randomized Controlled Trial of a Leg Orthosis versus Traditional Treatment for Soldiers with Shin Splints: A Pilot Study. *Military Medicine*, 171: 40-45, 2006.

2005

Childs JD, Flynn TW, Fritz JM, Piva SR, Whitman JM, Wainner RS, Greenman PE. Screening for Vertebrobasilar Insufficiency with Neck Pain: Manual Therapy

Decision-Making in the Presence of Uncertainty. *Journal of Orthopaedic & Sports Physical Therapy*. 35:300-306, 2005.

Childs JD, Whitman JM, Pugia M, Sizer P, Flynn TW, Delitto A. A description of physical therapist competency in musculoskeletal medicine. *BMC Musculoskeletal Disorders*. 6:32, 2005.

Cleland JA, Flynn TW, Palmer JA. Incorporation of Manual Therapy Directed at the Cervicothoracic Spine in Patients with Lateral Epicondylalgia: A Pilot Clinical Trial. *Journal of Manual & Manipulative Therapy*, 13:143-151, 2005.

Fritz JM, Childs JD, Flynn TW. Pragmatic Application of a Clinical Prediction Rule in Primary Care to Identify Patients with Low Back Pain Likely to Respond Quickly to Spinal Manipulation. *BMC Family Practice*, 6:29, 2005.

Young B, Flynn TW. Pulmonary Emboli- The Differential Diagnostic Dilemma. *Journal of Orthopaedic & Sports Physical Therapy*, 35:637-644. 2005

Scherer S, Noteboom T, Flynn T. Cardiovascular risk assessment in the orthopaedic practice setting- A clinical commentary. *Journal of Orthopaedic & Sports Physical Therapy*, 35:730-737, 2005.

Boyles R, Flynn T, Whitman J. Manipulation following interscalene block for shoulder adhesive capsulitis: a case series. *Manual Therapy*, 10(1):80-87, 2005.

Teyhen D, Flynn T, Bovik A, Abraham L. A new technique for digital fluoroscopic video assessment of sagittal plane lumbar spine motion. *Spine*, 14:E406-E413, 2005.

Teyhen D, Miltenberger C, Deiters H, Del Toro Y, Pulliam J, Childs J, Boyles R, Flynn T. The use of ultrasound imaging of the abdominal drawing-in maneuver in subjects with low back pain. *Journal of Orthopaedic & Sports Physical Therapy*, 35(6):346-355, 2005.

2004

Childs JD, Fritz JM, Flynn TW, Irrgang JJ, Delitto A, Johnson KK et al. A clinical prediction rule to identify patients with low back pain who will benefit from spinal manipulation: A validation study. *Annals of Internal Medicine*. 141(12):920-928, 2004.

Allen C, Flynn T, Kardouni J, Hemphill M, Schneider C, Pritchard A, Duplessis D, Evans-Christopher G. The use of a pneumatic leg brace in soldiers with tibial stress fractures- A randomized clinical trial. *Military Medicine*, 169 (11): 2004.

Fritz J, Whitman J, Flynn T, Wainner R, Childs J. Clinical factors related to the failure of individuals with low back pain to improve with spinal manipulation. *Physical Therapy*, 84: 173-190, 2004.

Sutlive T, Mitchell S, Maxfield S, Neumann J, Reams C, Swiecki C, Hall R, Bare A, Flynn T. Identification of subjects who respond best to an in-shoe orthotic. *Physical Therapy*, 84:49-61, 2004.

- 2003 Petrone M, Guinn J, Peralta A, Sutlive T, Flynn T, Garber M: The accuracy of the Palpation Meter (PALM) for measuring pelvic and leg length inequality. *Journal of Orthopedic and Sports Physical Therapy*, 33(6): 319-325, 2003.
- Flynn T, Fritz J, Wainner R, Whitman J. The Audible Pop is not Necessary for Successful Spinal High Velocity Thrust Manipulation in Individuals with Low Back Pain. *Archives of Physical Medicine & Rehabilitation*, 84(7): 1057-1060, 2003.
- Whitman JM, Flynn TW, Fritz JM. Nonsurgical Management for Lumbar Spinal Stenosis: a Literature Review and Case Series. *Physical Medicine & Rehabilitation Clinics of North America*, 14:77-101, 2003.
- Lee CN, Robbins DP, Roberts HJ, Bryan JP, Masullo L, Flynn TW. Reliability and validity of single inclinometer measurements for thoracic spine range of motion. *Physiotherapy Canada*, 55(2): 73-78, 2003.
- 2002 Flynn T, Fritz J, Whitman J, Wainner R, Magel J, Rendeiro D, Butler B, Allison S, Garber M. A clinical prediction rule for classifying patients who demonstrate short term improvement with spinal manipulation. *Spine*, 27(24): 2835-2843, 2002.
- Flynn T, Cavanagh PR, Sommer HJ, Derr J. Tibial flexural wave propagation velocity in vivo: potential for bone stress injury risk assessment. *Work*, 18(2):151-160, 2002.
- Croy T, Cross L, Kopenhaver N, Weingarten J, Flynn T, Christie D, Osmon P, Underwood F: Development of a backward walking maximal oxygen consumption test. *Physiotherapy Canada*, Winter:19-23, 2002.
- 2001 Girrbach RT, Flynn TW, Browder DA, Guffie KL, Moore JH, Masullo LN, Bare AC, Bradley Y. Flexural wave propagation velocity and bone mineral density in females with tibial bone stress injuries vs. age-matched controls. *Journal of Orthopaedic and Sports Physical Therapy*, 31(2): 54-69, 2001.
- Teyhen DS, Flynn TW, Allison SC. Utilization of webboards for distance learning: A physical therapy model. *Military Medicine*, 166(4): 311-313, 2001.
- Lewis C, Flynn TW. The use of strain-counterstrain in the treatment of patients with low back pain. *Journal of Manual & Manipulative Therapy*, 9(2): 92-98, 2001.
- 1999 Flynn TW: Orthopaedic Physical Therapy: An evidence-based description of clinical practice- Thoracic spine & ribs. *Orthopaedic Physical Therapy Clinics of North America*, 8(1): 1-20, 1999.
- 1998 Van Deursen RW, Flynn TW, McCrory J, Morag E: Does a single gait control strategy exist for both forward and backward walking? *Gait & Posture*, 7(3): 214-224, 1998.

- 1997 Flynn TW, Canavan PK, Cavanagh PR, Chiang JH: Plantar pressure reduction in an incremental weight bearing system. *Physical Therapy*, 77: 410-416 , 1997.
- 1995 Flynn TW, Soutas-Little RW: Patellofemoral joint compressive forces in forward and backward running. *Journal of Orthopaedic and Sports Physical Therapy*, 21: 277-282, 1995.
- 1994 Flynn TW, Connery SM, Smutok MA, Zeballos RJ, Weisman IM: Comparison of cardiopulmonary responses to forward and backward walking and running. *Medicine and Science in Sports and Exercise*, 26: 89-94, 1994
- 1993 Flynn TW: "Pelvis and Thigh Injuries", Chapter 12 in Handbook of Sports Medicine-A symptom oriented approach. Edited by Lillegard WA and Rucker KS, Butterworth-Heinemann, Newton, MA, 1993.
- Flynn TW, Soutas-Little RW: Mechanical power and muscle action during forward and backward running. *Journal of Orthopaedic and Sports Physical Therapy*. 17:108-112, 1993.

Peer Reviewed Scientific and Professional Presentations:

- 2008 Flynn T. Physical Therapy and the Current State of Musculoskeletal Care in the US: Feast or Famine? 2 hour presentation: Nashville, TN, 2008.
- Flynn T. Cervical Spine Manipulation: Responsible Use in Physical Therapist Practice. NAIOMT Annual Conference & Symposium. Portland, OR, 2008.
- Flynn T. Spinal Manipulation & Regional Interdependence: Where does Diagnosis End and Treatment Begin?. NAIOMT Annual Conference & Symposium. Portland, OR, 2008.
- 2007 Flynn T, Cleland J. Manual Therapy for the Thoracic Spine & Ribcage. 8-hour pre-conference seminar for the APTA Annual Conference & Exposition. Denver CO, 2007.
- Flynn T, Childs J. Manual Therapy Management of the Lumbo-Pelvic Spine. 3-hour platform presentation. APTA Annual Conference & Exposition, Denver, CO, 2006.
- Flynn T, Vertebral Artery Insufficiency Testing: Research, Protocols and Clinical Implications, 2-hour Invited Lecture and Panel Discussion at World Congress of Physical Therapy. Vancouver, BC, CANADA, 2007.
- Whitman J, Smith M, Krum L, Flynn T, Scherer S, Noteboom J. Assessing student performance in the clinic through analysis of practice projects. Platform presentation. APTA Combined Sections Meeting, Boston, MA, 2007.
- 2006 Flynn T, Teyhen D, Abbott H. Clinical Lumbar Instability- Evidence and Integration in Manual Therapy Practice. 3-hour platform presentation. APTA Combined Sections Meeting, San Diego, CA, 2006.

- 2005
- Whitman J, Flynn T. Non-Invasive Management of Patients with Lumbar Spinal Stenosis. American College of Rheumatology Annual Meeting. 2 hours platform. San Diego, CA, 2005.
- Flynn T, Gibbons P, Tehan P, Johnson D. Spinal Manipulation- An Update for Physical Therapists, Osteopathic Physicians, and Medical Doctors. 24 hour short course. Department of Rehabilitation Sciences, University of Oklahoma, 2005.
- McMenamin P, DuVall R, Flynn T, Fritz J, Massey B, Sahrman S, Sinnott M. Actualizing Autonomy- Approaching Vision 2020. 4-hour multisection short course. APTA Combined Sections Meeting, New Orleans, LA 2005.
- Flynn T, Cleland J, Deyle G, Whitman J. Manual Physical Therapy- Evidence & evolution in the management of select extremity disorders. 3-hour short course. APTA Combined Sections Meeting, New Orleans, LA 2005.
- Flynn T. Thoracic Spine and Ribcage Current Management. 4 hour course. McNeese Rehab, San Diego, CA, 2005.
- 2004
- Flynn T. Spinal Manipulation Evidence and Update. 6 hour course. University of Southern California, Los Angeles, CA, 2004.
- Flynn T, Wainner R, Noteboom T, Whitman J. Manipulation in First Professional Education- An academic faculty workshop. 16 hour course. Regis University, Denver, CO 2004.
- Flynn T. Spinal Manipulation in Low Back Pain Management- Current Concepts. University of Sydney, School of Physiotherapy, Lidcombe, Australia.
- Flynn T. Evidence and Integration of Manual Therapy in Spinal Disorders. Greater Capital Region Physiotherapy Group, Canberra, Australia.
- Flynn T and Noteboom T. Integrating High Velocity Techniques in Patients with Chronic Low Back Pain- 5 hours, Colorado Chapter of the APTA- Spring Conference, Denver, CO 2004.
- Flynn T, Gibbons P, Tehan P, Johnson D. Spinal Manipulation- An Update for Physical Therapists, Osteopathic Physicians, and Medical Doctors. 16 hour short course. Department of Rehabilitation Sciences, University of Oklahoma, 2004
- Flynn T, McDavitt S. Physical Therapy- Today and Tomorrow. 3 hours, Oklahoma Chapter of the APTA. Oklahoma City, OK, 2004.
- Whitman J, Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs J, Fritz J, Bennett A. A Comparison of between two physical therapy treatment programs for subjects with lumbar spinal stenosis: a randomized clinical trial. International Federation of Orthopaedic Manipulative Therapists, Cape Town, South Africa, 2004.

Flynn T, Wainner R, Childs J, Noteboom J. Manual Physical Therapy- Evidence & evolution in the management of cervical spine disorders. 3-hour short course. APTA Combined Sections Meeting, Nashville, TN 2004.

Flynn T, Wainner R. Manipulation in First Professional Education- An academic & clinical instructor's workshop. APTA Combined Sections Meeting, 2-hour short course. Nashville, TN 2004.

Childs J, Flynn T, Fritz J. Higher levels of experience does not improve outcome from spinal manipulation. APTA Combined Sections Meeting, Nashville, TN 2004.

Whitman J. Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs JD, Bennett A. Manual physical therapy and a body weight supported treadmill ambulation program for patients with lumbar spinal stenosis. APTA Combined Sections Meeting, Nashville, TN 2004.

Childs J, Flynn T, Fritz J. Validation of whether an audible pop from high-velocity thrust manipulation improves successful outcome for patients with low back pain. APTA Combined Sections Meeting, Nashville, TN 2004.

Boyles R, Flynn T, Whitman J. Manipulation following interscalene block for adhesive capsulitis- A case series. APTA Combined Sections Meeting- Poster, Nashville, TN 2004.

2003

Childs J, Fritz J, Flynn T, Irrgang J, Delitto A, Johnson K, Majkowski G. Validation of a clinical prediction rule to identify patients with low back pain likely to benefit from spinal manipulation: a randomized clinical trial. American Academy of Orthopaedic Manual Physical Therapists, Reno, NV 2003.

Whitman J. Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs JD, Bennett A. Manual physical therapy and a body weight supported treadmill ambulation program for patients with lumbar spinal stenosis. American Academy of Orthopaedic Manual Physical Therapists, Reno, NV 2003.

Flynn T, Wainner R, Fritz J. Manipulation in first professional physical therapist education- Changing behaviors & outcomes in the management of LBP. American Academy of Orthopaedic Manual Physical Therapists, Reno, NV 2003.

Flynn T. Spinal Manipulation- Appropriate Use in the Management of Low Back Pain. Salt Lake City Spine Forum. Salt Lake City, UT, 2003.

Flynn TW. Development and validation of a clinical prediction rule to identify patients likely to benefit from spinal manipulation. 4th Annual USA & Japan Health Science Conference, Denver, CO 2003.

Flynn T, Fritz J, Wainner R, Whitman J. Spinal Manipulation- Evidence & Evolution in the Management of LBP. 3-hour short course. APTA Combined Sections Meeting, Tampa, FL 2003.

Flynn T. Developing Strategies for Effective Clinical Decision Making Using Patient Centered Data. Eugene Michels Forum, APTA Combined Sections Meeting, Tampa, FL 2003.

- 2002 Flynn T. Preparing students for the future- Challenges of the DPT in Autonomous Practice. Texas Physical Therapy Association Annual Meeting, 2002.
- Flynn T., Oden M, Grenier E, Kushner J, Slivka E, Hall R, Fedra J. The thoracic spine in the 3rd through 9th decreases: a measure of motion and static posture. Texas Physical Therapy Association Annual Meeting, 2002.
- 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 who demonstrate short term improvement with spinal manipulation. American Academy of Orthopaedic Manual Physical Therapists, Orlando, FL 2002.
- Wainner R, Flynn T. Spinal and Extremity Manipulation: Teaching and Integrating Evidence-based Practice Principles into a Clinical Procedures Course. Teaching Evidence-Based Practice in Rehabilitation Professional Curricula- Boston University, Boston, MA 2002.
- 2001 Flynn T., Wainner R, Smith B. Discordant Reviews- How do we proceed when the evidence Conflicts? American Academy of Orthopaedic Manual Physical Therapists, San Antonio, TX 2001.
- Flynn T., Wainner R, Whitman J. Immediate effects of thoracic spine manipulation on cervical range of motion and pain. American Academy of Orthopaedic Manual Physical Therapists, San Antonio, TX 2001.
- Whitman J, Flynn T., Fritz J, Magel J, Rendeiro D, Butler B, Wainner R, Allison S. Does manual therapy experience influence reliability for selected pelvic girdle tests and measures? American Academy of Orthopaedic Manual Physical Therapists, San Antonio, TX 2001.
- Flynn T., Fritz J, Allison S, Whitman J, Magel J, Rendeiro D, Butler B, Wainner R, Garber, M: Characteristics of patients with low back pain who respond best to sacroiliac region manipulation. American Physical Therapy Association-Combined Sections Meeting, San Antonio, TX, 2001.
- 2000 Flynn T., Fritz J, Allison S, Whitman J, Magel J, Rendeiro D, Butler B, Wainner R: The manipulative pop- is it associated with successful sacroiliac region manipulative treatment? American Academy of Orthopaedic Manual Physical Therapists, Charlottesville, VA, 2000.
- Girrbach RT, Browder DA, Guffie KL, Flynn TW., Moore JH, Masullo LN, Bare AC, Bradley Y: Flexural wave propagation velocity and bone mineral density in females with tibial bone stress injuries vs. age-matched controls. . American Physical Therapy Association-Combined Sections Meeting, New Orleans, LA, 2000.

- 1999 Ernst GP, Shippey D, Flynn TW: Long thoracic neuropathy as a result of first rib palpation-Poster. American Academy of Orthopaedic Manual Physical Therapists, Scottsdale, AZ, 1999.
- Girrbach RT, Browder DA, Guffie KL, Flynn TW, Moore JH, Masullo LN, Bare AC, Bradley Y: Flexural wave propagation velocity and BMD in females with tibial bone stress injuries vs. age-matched controls. Texas Physical Therapy Association Annual Meeting, 1999.
- Beattie P, Feuerstein M, Flynn T, Fritz J: Case Conference- Treatment of a patient following lumbar disectomy: short and long term considerations-Round Table. The Annual Conference and Exposition of the American Physical Therapy Association, Washington, DC, 1999.
- Flynn TW, Cavanagh PR, Sommer HJ, Derr J: Tibial flexural wave propagation-Reliability and potential for use in bone strength estimates-Platform. The Annual Conference and Exposition of the American Physical Therapy Association, Washington, DC, 1999.
- Croy T, Cross L, Jopke N, Weingarten J, Flynn T, Christie D, Osmon P, Underwood F: Development of a backward walking maximal oxygen consumption test. The Annual Conference and Exposition of the American Physical Therapy Association, Washington, DC, 1999.
- 1998 Flynn TW: Research a Key Tool in the Manual Therapists Toolkit- Invited Lecture. American Academy of Orthopaedic Manual Physical Therapists, St. Louis, MO, 1998.
- Flynn TW, Hall RC: Pseudovisceral symptoms from the costovertebral segments relieved with manual therapy-Poster. American Academy of Orthopaedic Manual Physical Therapists, St. Louis, MO, 1998.
- Croy T, Cross L, Jopke N, Weingarten J, Flynn T, Christie D, Osmon P, Underwood F: Development of a backward walking maximal oxygen consumption test-Platform. Texas Physical Therapy Association Annual Meeting, 1998.
- Flynn TW, Hall RC: Pseudovisceral symptoms from the costovertebral segments relieved with manual therapy-Poster. Texas Physical Therapy Association Annual Meeting, 1998.
- Flynn TW, Cavanagh PR, Sommer HJ, Derr J: Relationships among age, tibial width, late menarche and tibial bone quality-Platform. American College of Sports Medicine Annual Meeting, Orlando, FL 1998.
- 1997 Flynn TW, Canavan PK, Chiang JH, Cavanagh PR: Ground reaction force and plantar pressure reduction in an incremental weight bearing system-Platform. American Physical Therapy Association-Combined Sections Meeting, Dallas, TX, 1997.

- 1996 Flynn TW, Canavan PK, Chiang JH, Cavanagh PR: Ground reaction force and plantar pressure reduction in an incremental weight bearing system-Platform. V Emed Scientific Meeting, University Park, PA, 1996.
- 1995 Van Deursen RW, Flynn TW, McCrory J, Morag E: The quantification of muscle activity during forward and backward walking- *The potential for central pattern generator modification*-Poster. Multisegmental Motor Control: Interface of Biomechanical, Neural, and Behavioral Approaches, New Hampton, NH, 1995.
- 1994 Flynn TW, Soutas-Little RW: Comparison of mechanical power and muscle activity during forward and backward walking-Platform. American Physical Therapy Association-Combined Sections Meeting, New Orleans, LA, 1994.
- 1993 Flynn TW, Connery SM, Smutok MA, Zeballos RJ, Weisman IM: Comparison of Cardiopulmonary responses during forward and backward walking and running in normals-Platform. American College of Sports Medicine Annual Meeting, Seattle, WA, 1993.
- 1992 Flynn TW, Godges J: Differentiating costovertebral from facet dysfunction-Platform. Congress of the International Federation of Orthopaedic Manipulative Therapists, Vail, CO, 1992.
- 1991 Flynn TW, Soutas-Little RW: Patello-femoral joint compressive forces during forward and backward running-Platform. American College of Sports Medicine Annual Meeting, Orlando FL, 1991.
- Flynn TW, Soutas-Little RW: Mechanical power and EMG activity about the knee during forward and backward running-Platform. American Physical Therapy Association-Combined Sections Meeting, Orlando, FL, 1991.
- 1990 Flynn TW, Soutas-Little RW: A biomechanical comparison of forward and rearward running in humans-Platform. AMSC Research Course, Washington, DC August 8, 1990.
- 1988 Flynn TW, Lillegard WL: An analysis of injuries incurred during a 100-mile road march-Poster. AMSC Research Course, Washington, DC August 10, 1988.

Published Abstracts:

- 2007 Mintken P, Flynn TW, Bennett A. Clinical examination of a potential upper cervical instability in a patient with cervicogenic headaches. *Journal of Manual and Manipulative Therapy*, 15: 177, 2007.
- 2006 Childs JD, Fritz JM, Flynn TW. Professional Issues Associated with the Use of Rehabilitative Ultrasound Imaging by Physical Therapists. *Journal of Orthopaedic and Sports Physical Therapy*. 2006; 36(8): A13-14.
- 2005 Whitman JM, Flynn TW, Fritz JM, Wainner RS, Childs JD, Garber MB, Ryder M, Gill H, 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*, 13: 188, 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.

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. *Journal of Orthopaedic and Sports Physical Therapy*, 35:A9, 2005.

Teyhen DS, Miltenberger CE, 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? *Journal of Orthopaedic and Sports Physical Therapy*, 35:A11, 2005.

Teyhen DS, Flynn TW, Childs JD, Abraham LD. Lumbar spine kinematics among patients likely to benefit from lumbar stabilization exercise programs. *Journal of Orthopaedic and Sports Physical Therapy*, 35:A12, 2005.

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.

2004

Childs J, Fritz J, Flynn T. Risks associated with the failure to offer manipulation for patients with low back pain. *Journal of Manual and Manipulative Therapy*, 12 (3):161-162, 2004.

Teyhen D, Abraham L, Flynn T. Digital fluoroscopic video assessment of sagittal plane lumbar spine flexion. *Proceedings of the American Society of Biomechanics*, Annual Meeting, 2004.

Whitman J, Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs J, Fritz J, Bennett A. A Comparison of between two physical therapy treatment programs for subjects with lumbar spinal stenosis: a randomized clinical trial. Proceedings of the 8th Congress of the International Federation of Orthopaedic Manipulative Therapists

Childs, J, Flynn T, Fritz J. Audible pop from high velocity thrust manipulation and outcomes in patients with low back pain. *Journal of Orthopaedic and Sports Physical Therapy*, 34:A3, 2004.

Fritz J, Childs, J, Flynn T, Whitman J, Wainner R. Segmental mobility testing in the classification of low back pain. *Journal of Orthopaedic and Sports Physical Therapy*, 34:A7, 2004.

Fritz J, Childs, J, Flynn T, Whitman J, Wainner R. Measurement properties of outcomes for subjects with lumbar spinal stenosis. *Journal of Orthopaedic and Sports Physical Therapy*, 34:A7, 2004.

- Childs, J, Fritz J, Flynn T, Irrgang J, Delitto A, Johnson K, Majkowski G. Validation of a clinical prediction rule to identify patients likely to benefit from spinal manipulation. *Journal of Orthopaedic and Sports Physical Therapy*, 34:A10, 2004.
- Childs, J, Flynn T, Fritz J, Whitman J. Clinical experience and patient outcome from spinal manipulation. *Journal of Orthopaedic and Sports Physical Therapy*, 34:A9-10, 2004.
- Boyles R, Flynn T, Whitman J. Manipulation following interscalene block for shoulder adhesive capsulitis: a case series. *Journal of Orthopaedic and Sports Physical Therapy*, 34:A46, 2004.
- 2003 Childs J, Fritz J, Flynn T, Irrgang J, Delitto A, Johnson K, Majkowski G. Validation of a clinical prediction rule to identify patents with low back pain likely to benefit from spinal manipulation: a randomized clinical trial. *Journal of Manual and Manipulative Therapy*, 11: 2003.
- Whitman J. Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs JD, Bennett A. Manual physical therapy and a body weight supported treadmill ambulation program for patients with lumbar spinal stenosis. *Journal of Manual and Manipulative Therapy*, 11: 2003.
- Flynn T, Wainner R, Fritz J. Manipulation in first professional physical therapist education- Changing behaviors & outcomes in the management of LBP. *Journal of Manual and Manipulative Therapy*, 11: 2003.
- 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.
- 2002 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 who demonstrate short term improvement with spinal manipulation. *Journal of Manual and Manipulative Therapy*, 10:159-160, 2002.
- Boyles R, Flynn T, Whitman J, Young B. Manipulation following interscalene block for shoulder adhesive capsulitis: A case series. *Journal of Manual and Manipulative Therapy*, 10:154-155, 2002.
- 2001 Whitman J, Flynn T, Fritz J, Magel J, Rendeiro D, Butler B, Wainner R, Allison S: Does manual therapy experience influence reliability for selected pelvic girdle tests and measures? *4th Interdisciplinary World Congress on Low Back Pain Proceedings*, November 2001.
- Flynn T, Wainner R, Whitman J. Immediate effects of thoracic spine manipulation on cervical range of motion and pain. *Journal of Manual and Manipulative Therapy*, 9: 2001.

- Whitman J, Flynn T, Fritz J, Magel J, Rendeiro D, Butler B, Wainner R, Allison S. Does manual therapy experience influence reliability for selected pelvic girdle tests and measures? *Journal of Manual and Manipulative Therapy*, 9: 2001.
- Flynn T, Fritz J, Allison S, Whitman J, Magel J, Rendeiro D, Butler B, Wainner R: Characteristics of patients with low back pain who respond best to sacroiliac region manipulation. *Journal of Orthopaedic and Sports Physical Therapy*, 31:A9-10, 2001.
- 2000 Flynn T, Fritz J, Allison S, Whitman J, Magel J, Rendeiro D, Butler B, Wainner R: The manipulative pop- is it associated with successful sacroiliac region manipulative treatment? *Journal of Manual and Manipulative Therapy*, 8:140-141, 2000.
- Maynard CN, Robbins DP, Roberts HJ, Bryan JP, Flynn TW. Reliability and validity of single inclinometer measurements for thoracic spine range of motion. *Journal of Manual & Manipulative Therapy*, 8:143, 2000.
- Girrbach RT, Browder DA, Guffie KL, Flynn TW, Moore JH, Masullo LN, Bare AC, Bradley Y: Flexural wave propagation velocity and bone mineral density in females with tibial bone stress injuries vs. age-matched controls. *Journal of Orthopaedic and Sports Physical Therapy*, 30:A23-24, 2000.
- 1999 Ernst GP, Shippey D, Flynn TW: Long thoracic neuropathy as a result of first rib palpation. *Journal of Manual and Manipulative Therapy*, 7:151-152, 1999.
- Flynn TW, Cavanagh PR, Sommer HJ, Derr J: Tibial flexural wave propagation-Reliability and potential for use in bone strength estimates. *Physical Therapy*, 79:5 S64-65, 1999.
- Croy T, Cross L, Jopke N, Weingarten J, Flynn T, Christie D, Osmon P, Underwood F: Development of a backward walking maximal oxygen consumption test. *Physical Therapy*, 79:5 S46, 1999.
- 1998 Flynn TW, Hall RC: Pseudovisceral symptoms from the costovertebral segments relieved with manual therapy. *Journal of Manual and Manipulative Therapy*, 6:202-203, 1998.
- Flynn TW, Cavanagh PR, Sommer HJ, Derr J: Relationships among age, tibial width, late menarche and tibial bone quality. *Medicine & Science in Sports and Exercise*, 30:5 Supplement S47, 266, 1998.
- 1997 Flynn TW, Canavan PK, Chiang JH, Cavanagh PR: Ground reaction force and plantar pressure reduction in an incremental weight bearing system. *Journal of Orthopaedic and Sports Physical Therapy*, 1997.
- 1994 Flynn TW, Soutas-Little RW: Comparison of mechanical power and muscle activity during forward and backward walking. *Journal of Orthopaedic and Sports Physical Therapy*, 19:63-64, 1994.

- 1993 Flynn TW, Connery SM, Smutok MA, Zeballos RJ, Weisman IM: Comparison of cardiopulmonary responses during forward and backward walking and running in normals. *Medicine & Science in Sports and Exercise*, 25:5 Supplement S186, 1046, 1993.
- 1992 Flynn TW, Godges J: Differentiating costovertebral from facet dysfunction. Proceedings of the International Congress of the International Federation of Orthopaedic Manipulative Therapists, 1992.
- 1991 Flynn TW, Soutas-Little RW: Mechanical power and EMG activity about the knee in forward and backward running. *Journal of Orthopaedic and Sports Physical Therapy*, 13:259, 1991.
- Flynn TW, Soutas-Little RW: Patello-femoral joint compressive forces during forward and backward running. *Medicine & Science in Sports and Exercise*, 23:4 Supplement, S6, 32, 1991.

Non-Peer Reviewed Publications/Editorials:

- 2006 Flynn TW Guest Editorial- There is more than one way to manipulate a spine. *Journal of Orthopaedic and Sports Physical Therapy*. 36:198-199, 2006.
- 2005 Fritz JM, Flynn TW. Guest Editorial- Autonomy in Physical Therapy: Less is More. *Journal of Orthopaedic and Sports Physical Therapy*. 35:696-698, 2005.
- 2004 Flynn TW. Guest Editorial- Manual Physical Therapy: Moving Beyond the Theoretical. *Journal of Orthopaedic and Sports Physical Therapy*. 34:659-661, 2004.
- Childs JC, Flynn TW. Letter to the Editor- Spinal Manipulation for Low Back Pain. *Annals of Internal Medicine*. 140:665, 2004.
- Flynn TW. Guest Editorial- Practice What We Teach. *Journal of Orthopaedic and Sports Physical Therapy*. 34:169-170, 2004.
- 2003 Flynn TW. Guest Editorial- Direct Access: The Time Has Come for Action. *Journal of Orthopaedic and Sports Physical Therapy*. 33:102-103, 2003.
- 2002 Flynn TW. Guest Editorial- Move It and Move On. *Journal of Orthopaedic and Sports Physical Therapy*. 32:192-193, 2002.
- Flynn TW, Fritz J, Wainner RS, Whitman J. Letter to the Editor- Are Physical Agents the Same as Rehabilitation? *Physical Therapy*. 82:286-287, 2002.
- 2000 Flynn TW. Invited Commentary- Construct Validity of Cyriax's Selective Tension Examination. *Journal of Orthopaedic and Sports Physical Therapy*. 30:522-523, 2000.

Non-Peer Reviewed Presentations:

Funded/In Review Grant Activity:

- 2004 Regis SPARC Project. *Implementation of a clinical prediction rule used to identify individuals with low back pain in which spinal manipulation will be effective*. Principal Investigator, \$3,000; Awarded; 2004.
- 2003 Foundation for Physical Therapy- Evaluating the effectiveness of PT interventions for persons with musculoskeletal disorders: *Effectiveness of an Extension-Oriented Intervention in Patients with Low Back Pain: A Randomized Clinical Trial*. Co-investigator. \$40,000; Awarded; 2003.
- American Physical Therapy Association Sports Section. Competency in Musculoskeletal Medicine: Physical Therapist vs. Physician Performance. Co-Investigator. \$1,500; Awarded; 2003.
- 2001 U.S. Army Center for Health Promotion and Preventive Medicine. A Randomized Controlled Trial of an Orthosis in Soldiers with Shin Splints. Principal Investigator. \$30,600; Awarded; 2001.
- American Physical Therapy Association Orthopaedic Section. Effectiveness of manual physical therapy and exercise for lumbar spinal stenosis: A prospective, randomized, controlled clinical trial. Co-Investigator. \$10,000; Awarded; 2001.
- 2000 U.S. Army Telemedicine Initiatives- *Evaluation of Dynamic Motion X-ray in Musculoskeletal Pathology*. Principal Investigator. \$199,000; Awarded; 2000.
- 1999 Foundation for Physical Therapy- Evaluating the effectiveness of PT interventions for persons with musculoskeletal disorders: *Identification of patients with acute low back pain who respond best to sacroiliac region manipulation*. Principal Investigator. \$40,000; Awarded; 1999.
- 1998 Texas Physical Therapy Education and Research Foundation: *Flexural wave propagation velocity in females with tibial stress fractures vs. age- and gender-matched controls*. Principal Investigator. \$3730; 1998
- 1996 Foundation for Physical Therapy- Doctoral Research Award: *Bone structural changes in women during intense exercise*. Principal Investigator. \$14,985.00; 1996.

Other Scholarly Products (Books, Chapters, CD-ROMS, Home Study Courses):

- 2008 Flynn TW, Cleland J, Whitman J: The Users's Guide to the Musculoskeletal Examination- Fundamentals of the Evidence-Based Clinician. Evidence in Motion, Louisville, KY, 2008.
- 2006 Egan WJ, Flynn TW: "Thoracic Spine- Physical Therapy Patient Management Using Current Evidence," in the APTA-Orthopaedic Section's Home Study Course Series HHSC 16.2, Current Concepts of Orthopaedic Physical Therapy, LaCrosse, WI, 2006.
- Flynn TW: "Thoracic Spine & Ribcage Dysfunction," in Orthopaedic Physical Therapy Secrets. 2nd Edition. Edited by Boyce & Placzek, Churchill-Livingstone, Philadelphia, PA, 2006.

- 2002 Whitman J, Flynn T, Wainner R, Magel J. Orthopaedic Manual Physical Therapy Management of the Lumbar Spine, Pelvis, and Hip Region. Manipulations, Inc. Fort Collins, CO. (www.evidenceinmotion.com), 2002.
- 2001 Wainner R, Flynn T, Whitman J. Spinal & Extremity Manipulation- The Basic Skill Set for Physical Therapists. Manipulations, Inc. Fort Collins, CO. (www.evidenceinmotion.com), 2001.
- Flynn TW: "Thoracic Spine & Ribcage," in the APTA-Orthopaedic Section's Home Study Course Series HHSC 11.2, Current Concepts of Orthopaedic Physical Therapy, LaCrosse, WI, 2001.
- Flynn TW: "Thoracic Spine & Ribcage Dysfunction," in Orthopaedic Physical Therapy Secrets. Edited by Boyce & Placzek, Hanley & Belfus, Philadelphia, PA, 2001.
- 2000 Flynn T, Whitman J, Magel J. Orthopaedic Manual Physical Therapy Management of the Cervical-Thoracic Spine & Ribcage. Manipulations, Inc. Fort Collins, CO. (www.evidenceinmotion.com), 2000.
- 1998 Flynn TW: "Pelvis and Thigh Injuries," in Handbook of Sports Medicine-A symptom oriented approach- 2ND Edition. Edited by Lillegard, Butcher, and Rucker, Butterworth-Hienemann, Newton, MA, 1998.
- 1996 Flynn TW: The Thoracic Spine and Ribcage -Musculoskeletal Evaluation & Treatment. **Editor**, 14 contributing authors. Butterworth-Hienemann, Newton, MA, 1996.
- Flynn TW: "Direct Treatment Techniques for the Thoracic Spine and Rib Cage", Chapter 9 in The Thoracic Spine and Ribcage -Musculoskeletal Evaluation & Treatment. Edited by Flynn TW, Butterworth-Hienemann, Newton, MA, 1996.
- 1993 Flynn TW: "Pelvis and Thigh Injuries", Chapter 12 in Handbook of Sports Medicine-A symptom oriented approach. Edited by Lillegard WA and Rucker KS, Butterworth-Hienemann, Newton, MA, 1993.

Research Activity:

Identifying Kinematic Movement Patterns in Patients with Lumbar Segmental Instability, Role: Co-Investigator, Stage: Manuscript Preparation.

Description of Lumbar Spine Kinematics: A Novel Approach Using Digital Fluoroscopic Video, Role:Co- Investigator, Stage: Manuscript Preparation.

Continuing Education Workshops Conducted/Organized:

Flynn T. Integrating Evidence into Private Practice. Private Practice Section, APTA Combined Sections Meeting, Boston, MA, 2007

- Flynn T. Upper Extremity and Cervical Spine Dysfunction. Annual Switzerland Physiotherapy Conference in Orthopaedic Rehabilitation. Zurich, Sw, 2006
- Flynn T. Spinal Manipulation in the Management of Low Back Disorders. Annual Switzerland Physiotherapy Conference in Orthopaedic Rehabilitation. Zurich, Sw, 2006
- Flynn T., Teyhen D, Abbott H. Clinical Lumbar Instability- Evidence and Integration in Manual Therapy Practice. 3-hour platform presentation. APTA Combined Sections Meeting, San Diego, CA, 2006.
- Whitman J, Flynn T. Non-Invasive Management of Patients with Lumbar Spinal Stenosis. American College of Rheumatology Annual Meeting. 2 hours platform. San Diego, CA, 2005.
- Flynn T., Gibbons P, Tehan P, Johnson D. Spinal Manipulation- An Update for Physical Therapists, Osteopathic Physicians, and Medical Doctors. 24 hour short course. Department of Rehabilitation Sciences, University of Oklahoma, 2005.
- McMenamin P, DuVall R, Flynn T., Fritz J, Massey B, Sahrman S, Sinnott M. Actualizing Autonomy- Approaching Vision 2020. 4-hour multisection short course. APTA Combined Sections Meeting, New Orleans, LA 2005.
- Flynn T., Cleland J, Deyle G, Whitman J. Manual Physical Therapy- Evidence & evolution in the management of select extremity disorders. 3-hour short course. APTA Combined Sections Meeting, New Orleans, LA 2005.
- Flynn T. Thoracic Spine and Ribcage Current Management. 4 hour course. McNeese Rehab, San Diego, CA, 2005.
- Flynn T. Spinal Manipulation Evidence and Update. 6 hour course. University of Southern California, Los Angeles, CA, 2004.
- Flynn T., Wainner R, Noteboom T, Whitman J. Manipulation in First Professional Education- An academic faculty workshop. 16 hour course. Regis University, Denver, CO 2004.
- Flynn T. Spinal Manipulation in Low Back Pain Management- Current Concepts. University of Sydney, School of Physiotherapy, Lidcombe, Australia.
- Flynn T. Evidence and Integration of Manual Therapy in Spinal Disorders. Greater Capital Region Physiotherapy Group, Canberra, Australia.
- Flynn, T and Noteboom T. Integrating High Velocity Techniques in Patients with Chronic Low Back Pain- 5 hours, Colorado Chapter of the APTA- Spring Conference, Denver, CO 2004.
- Flynn T., Gibbons P, Tehan P, Johnson D. Spinal Manipulation- An Update for Physical Therapists, Osteopathic Physicians, and Medical Doctors. 16 hour short course. Department of Rehabilitation Sciences, University of Oklahoma, 2004
- Flynn T., McDavitt S. Physical Therapy- Today and Tomorrow. 3 hours, Oklahoma Chapter of the APTA. Oklahoma City, OK, 2004.
- Whitman J, Flynn T., Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs J, Fritz J, Bennett A. A Comparison of between two physical therapy treatment programs for subjects with

lumbar spinal stenosis: a randomized clinical trial. International Federation of Orthopaedic Manipulative Therapists, Cape Town, South Africa, 2004.

Flynn T, Wainner R, Childs J, Noteboom J. Manual Physical Therapy- Evidence & evolution in the management of cervical spine disorders. 3-hour short course. APTA Combined Sections Meeting, Nashville, TN 2004.

Flynn T, Wainner R. Manipulation in First Professional Education- An academic & clinical instructor's workshop. APTA Combined Sections Meeting, 2-hour short course. Nashville, TN 2004.

Childs J, Flynn T, Fritz J. Higher levels of experience does not improve outcome from spinal manipulation. APTA Combined Sections Meeting, Nashville, TN 2004.

Whitman J. Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs JD, Bennett A. Manual physical therapy and a body weight supported treadmill ambulation program for patients with lumbar spinal stenosis. APTA Combined Sections Meeting, Nashville, TN 2004.

Childs J, Flynn T, Fritz J. Validation of whether an audible pop from high-velocity thrust manipulation improves successful outcome for patients with low back pain. APTA Combined Sections Meeting, Nashville, TN 2004.

Boyles R, Flynn T, Whitman J. Manipulation following interscalene block for adhesive capsulitis- A case series. APTA Combined Sections Meeting- Poster, Nashville, TN 2004.

Childs J, Fritz J, Flynn T, Irrgang J, Delitto A, Johnson K, Majkowski G. Validation of a clinical prediction rule to identify patients with low back pain likely to benefit from spinal manipulation: a randomized clinical trial. American Academy of Orthopaedic Manual Physical Therapists, Reno, NV 2003.

Whitman J. Flynn T, Wainner R, Garber M, Ryder M, Gill H, Atkins D, Childs JD, Bennett A. Manual physical therapy and a body weight supported treadmill ambulation program for patients with lumbar spinal stenosis. American Academy of Orthopaedic Manual Physical Therapists, Reno, NV 2003.

Flynn T, Wainner R, Fritz J. Manipulation in first professional physical therapist education- Changing behaviors & outcomes in the management of LBP. American Academy of Orthopaedic Manual Physical Therapists, Reno, NV 2003.

Flynn T. Spinal Manipulation- Appropriate Use in the Management of Low Back Pain. Salt Lake City Spine Forum. Salt Lake City, UT, 2003.

Flynn TW. Development and validation of a clinical prediction rule to identify patients likely to benefit from spinal manipulation. 4th Annual USA & Japan Health Science Conference, Denver, CO 2003.

Flynn T, Fritz J, Wainner R, Whitman J. Spinal Manipulation- Evidence & Evolution in the Management of LBP. 3-hour short course. APTA Combined Sections Meeting, Tampa, FL 2003.

Flynn T. Developing Strategies for Effective Clinical Decision Making Using Patient Centered Data. Eugene Michels Forum, APTA Combined Sections Meeting, Tampa, FL 2003.

Flynn T. Preparing students for the future- Challenges of the DPT in Autonomous Practice. Texas Physical Therapy Association Annual Meeting, 2002.

Flynn T., Oden M, Grenier E, Kushner J, Slivka E, Hall R, Feda J. The thoracic spine in the 3rd through 9th decreases: a measure of motion and static posture. Texas Physical Therapy Association Annual Meeting, 2002.

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 who demonstrate short term improvement with spinal manipulation. American Academy of Orthopaedic Manual Physical Therapists, Orlando, FL 2002.

Wainner R, Flynn T. Spinal and Extremity Manipulation: Teaching and Integrating Evidence-based Practice Principles into a Clinical Procedures Course. Teaching Evidence-Based Practice in Rehabilitation Professional Curricula-Boston University, Boston, MA 2002.

Flynn T., Wainner R, Smith B. Discordant Reviews- How do we proceed when the evidence Conflicts? American Academy of Orthopaedic Manual Physical Therapists, San Antonio, TX 2001.

Flynn T., Wainner R, Whitman J. Immediate effects of thoracic spine manipulation on cervical range of motion and pain. American Academy of Orthopaedic Manual Physical Therapists, San Antonio, TX 2001.

Whitman J, Flynn T., Fritz J, Magel J, Rendeiro D, Butler B, Wainner R, Allison S. Does manual therapy experience influence reliability for selected pelvic girdle tests and measures? American Academy of Orthopaedic Manual Physical Therapists, San Antonio, TX 2001.

Flynn T., Fritz J, Allison S, Whitman J, Magel J, Rendeiro D, Butler B, Wainner R, Garber, M: Characteristics of patients with low back pain who respond best to sacroiliac region manipulation. American Physical Therapy Association-Combined Sections Meeting, San Antonio, TX, 2001.

Flynn T., Fritz J, Allison S, Whitman J, Magel J, Rendeiro D, Butler B, Wainner R: The manipulative pop- is it associated with successful sacroiliac region manipulative treatment? American Academy of Orthopaedic Manual Physical Therapists, Charlottesville, VA, 2000.

Girrbach RT, Browder DA, Guffie KL, Flynn TW. Moore JH, Masullo LN, Bare AC, Bradley Y: Flexural wave propagation velocity and bone mineral density in females with tibial bone stress injuries vs. age-matched controls. . American Physical Therapy Association-Combined Sections Meeting, New Orleans, LA, 2000.

Ernst GP, Shippey D, Flynn TW. Long thoracic neuropathy as a result of first rib palpation- Poster. American Academy of Orthopaedic Manual Physical Therapists, Scottsdale, AZ, 1999.

Girrbach RT, Browder DA, Guffie KL, Flynn TW. Moore JH, Masullo LN, Bare AC, Bradley Y: Flexural wave propagation velocity and BMD in females with tibial bone stress injuries vs. age-matched controls. Texas Physical Therapy Association Annual Meeting, 1999.

- Beattie P, Feuerstein M, Flynn T, Fritz J: Case Conference- Treatment of a patient following lumbar disectomy: short and long term considerations-Round Table. The Annual Conference and Exposition of the American Physical Therapy Association, Washington, DC, 1999.
- Flynn TW, Cavanagh PR, Sommer HJ, Derr J: Tibial flexural wave propagation- Reliability and potential for use in bone strength estimates-Platform. The Annual Conference and Exposition of the American Physical Therapy Association, Washington, DC, 1999.
- Croy T, Cross L, Jopke N, Weingarten J, Flynn T, Christie D, Osmon P, Underwood F: Development of a backward walking maximal oxygen consumption test. The Annual Conference and Exposition of the American Physical Therapy Association, Washington, DC, 1999.
- Flynn TW: Research a Key Tool in the Manual Therapists Toolkit- Invited Lecture. American Academy of Orthopaedic Manual Physical Therapists, St. Louis, MO, 1998.
- Flynn TW, Hall RC: Pseudovisceral symptoms from the costovertebral segments relieved with manual therapy-Poster. American Academy of Orthopaedic Manual Physical Therapists, St. Louis, MO, 1998.
- Croy T, Cross L, Jopke N, Weingarten J, Flynn T, Christie D, Osmon P, Underwood F: Development of a backward walking maximal oxygen consumption test-Platform. Texas Physical Therapy Association Annual Meeting, 1998.
- Flynn TW, Hall RC: Pseudovisceral symptoms from the costovertebral segments relieved with manual therapy-Poster. Texas Physical Therapy Association Annual Meeting, 1998.
- Flynn TW, Cavanagh PR, Sommer HJ, Derr J: Relationships among age, tibial width, late menarche and tibial bone quality-Platform. American College of Sports Medicine Annual Meeting, Orlando, FL 1998.
- Flynn TW, Canavan PK, Chiang JH, Cavanagh PR: Ground reaction force and plantar pressure reduction in an incremental weight bearing system-Platform. American Physical Therapy Association-Combined Sections Meeting, Dallas, TX, 1997.
- Flynn TW, Canavan PK, Chiang JH, Cavanagh PR: Ground reaction force and plantar pressure reduction in an incremental weight bearing system-Platform. V Emed Scientific Meeting, University Park, PA, 1996.
- Van Deursen RW, Flynn TW, McCrory J, Morag E: The quantification of muscle activity during forward and backward walking- *The potential for central pattern generator modification*-Poster. Multisegmental Motor Control: Interface of Biomechanical, Neural, and Behavioral Approaches, New Hampton, NH, 1995.
- Flynn TW, Soutas-Little RW: Comparison of mechanical power and muscle activity during forward and backward walking-Platform. American Physical Therapy Association-Combined Sections Meeting, New Orleans, LA, 1994.

Flynn TW, Connery SM, Smutok MA, Zeballos RJ, Weisman IM: Comparison of Cardiopulmonary responses during forward and backward walking and running in normals-Platform. American College of Sports Medicine Annual Meeting, Seattle, WA, 1993.

Flynn TW, Godges J: Differentiating costovertebral from facet dysfunction-Platform. Congress of the International Federation of Orthopaedic Manipulative Therapists, Vail, CO, 1992.

Flynn TW, Soutas-Little RW: Patello-femoral joint compressive forces during forward and backward running-Platform. American College of Sports Medicine Annual Meeting, Orlando FL, 1991.

Flynn TW, Soutas-Little RW: Mechanical power and EMG activity about the knee during forward and backward running-Platform. American Physical Therapy Association-Combined Sections Meeting, Orlando, FL, 1991.

Flynn TW, Soutas-Little RW: A biomechanical comparison of forward and rearward running in humans-Platform. AMSC Research Course, Washington, DC August 8, 1990.

Flynn TW, Lillegard WL: An analysis of injuries incurred during a 100-mile road march-Poster. AMSC Research Course, Washington, DC August 10, 1988.

Membership in Scientific/Professional Organizations:

2006-2008 **President**, American Academy of Orthopaedic Manual Physical Therapists (AAOMPT)

2006 Member of the Rehabilitative Ultrasound International Consensus Development Team

International Classification of Function Task Force, Orthopaedic Section of the American Physical Therapy Association

American Academy of Orthopaedic Manual Physical Therapists (AAOMPT)-**Past-Chairman Research Committee**

American Physical Therapy Association (APTA): Orthopaedic Section- **Member & Chair Nominating Committee**

American Physical Therapy Association (APTA): **Member** Education Task Force on Manipulation in 1st Professional Curriculum.

North American Spine Society (NASS)- **Member**

Consultative and Advisory Positions Held:

2007- Present Manual Therapy- Editorial Committee

2005- Present Journal of Manipulative & Physiological Therapeutics- Manuscript Reviewer
2004 Editor- Special Issue on Manual Physical Therapy, Journal of Orthopaedic & Sports Physical Therapy

2001-Present Associate Editor- Journal of Orthopaedic & Sports Physical Therapy

1999-Present Physical Therapy- Manuscript Reviewer

1999-Present Journal of Orthopaedic & Sports Physical Therapy- Manuscript Reviewer

1999-2000 Medicine and Science in Sports and Exercise- Manuscript Reviewer

Services to the University/College/School on Committees/Councils/Commissions:

Regis University-

Chair, Department of Physical Therapy Faculty Planning Committee- 2006-2007.

Member, PhD Exploratory Committee, Regis University, 2005-present.

Member of the Department of Physical Therapy Faculty Planning Committee, 2003-present.

Member of the Department of Physical Therapy Admissions Committee, 2003-present.

Chair of the Department of Physical Therapy Scholarship Committee, 2003-2005.

External-

Baylor University, Graduate Credentials Committee, 1999-present.

Michigan State University, College of Osteopathic Medicine, Adjunct Faculty, 1990-present.

Michigan State University, Medical School-Guest Lecturer, Sports Medicine, 1989-90.

The Pennsylvania State University, Guest Lecturer, Athletic Training & Kinesiology, 1996-97.

External reviewer for promotion and tenure: 1 candidate University of Cardiff, Wales, United Kingdom; 1 candidate Marquette University; 1 candidate Texas Womens University.

Doctoral Committee Member, **John Childs**, Rehabilitation Sciences, University of Pittsburgh. Title: Validation of a clinical prediction rule to identify individuals with low back pain likely to respond to spinal manipulation. June 2003.

Doctoral Committee Member, **Deydre Teyhen**, Kinesiology, University of Texas. Title: Clinical lumbar instability- Development of a cineradiographic diagnostic tool. August 2003.

Doctoral Committee Member, **Erika Nelson-Wong**, Kinesiology, University of Waterloo. Title: Biomechanical Predictors of Induced, Nonspecific LBP & Motor Control Responses to a Subclassification-Based Clinical Intervention. August 2008.

Honors and Awards: include title or nature, award agency, and date

2008 Commencement Speaker for Arcadia University's DPT Convocation Ceremony, February, 2008.

2006 University of Wisconsin, Madison- Distinguished Lecturer in Physical Therapy. UW Physical Therapy Department.

Steven J. Rose Excellence in Research Award- Given by the Orthopaedic Section of the American Physical Therapy Association

2004 Discovery Health Clinical Excellence Award in Back Care- Presented at the 8th International Congress of the International Federation of Orthopaedic Manipulative Therapists in Cape Town, South Africa.

Steven J. Rose Excellence in Research Award- Given by the Orthopaedic Section of the American Physical Therapy Association

- 2003 Excellence in Research Award- Given by the American Academy of Orthopaedic Manual Physical Therapists.
Dedicated Service Award- Graduate School, Baylor University, Waco, TX
- 2002 Excellence in Research Award- Given by the American Academy of Orthopaedic Manual Physical Therapists.
- 2001 James A. Gould Excellence in Teaching Orthopaedic Physical Therapy- Given by the Orthopaedic Section of the American Physical Therapy Association.
Marquette University Outstanding Physical Therapy Alumnus of the Year.
Mary Lipscomb Hamrick Research Award. Given by the Army Medical Specialist Corps for Outstanding Research Contributions.
- 1999 Mary Lipscomb Hamrick Research Abstract Award- Given by the Army Medical Specialist Corps for Best Physical Therapy Research.
- 1998 U.S. Army Order of Military Medical Merit.
- 1994 Outstanding Clinical Educator Award- Given by the Texas Consortium of Physical Therapy Educational Programs.
- 1993 Mary Lipscomb Hamrick Research Abstract Award- Given by the Army Medical Specialist Corps for Best Physical Therapy Research.
- 1983-2001 Numerous Military Decorations including: 2 Meritorious Service Medals, 3 Army Commendation Medals, 3 Army Achievement Medals, & the Expert Field Medical Badge.
- 1983 Distinguished Military Graduate- Marquette University Army R.O.T.C.
- 1979-1983 Army Reserve Officer Training Corps- 4 year scholarship to Marquette University.

Continuing Education Attended:

- 2008 North American Institute of Orthopaedic Manual Therapy Conference & Symposium, 8 hours, Portland, OR

An Evidence-Enhanced Course on Biomechanics, Assessment & Manipulation of the Upper Cervical Spine, 8 hours, Portland, OR

American Physical Therapy Association-Combined Sections Meeting, 28 hrs, Nashville, TN
- 2007 American Academy of Orthopaedic Manual Physical Therapists, 24 hrs, St. Louis, MO

American Physical Therapy Association-Annual Scientific Meeting, Denver, CO

- American Physical Therapy Association-Combined Sections Meeting, 28 hrs,
Boston, MA
- 2006 American Academy of Orthopaedic Manual Physical Therapists, 24 hrs, Charlotte,
VA
- American Physical Therapy Association-Annual Scientific Meeting, 2006,
Orlando, FL.
- American Physical Therapy Association-Combined Sections Meeting, 2006, 28
hrs, San Diego, CA
- 2005 American Physical Therapy Association-Combined Sections Meeting, 2005, 28
hrs, New Orleans, LA
- American Academy of Orthopaedic Manual Physical Therapists, 2005, 24 hrs, Salt
Lake City, UT
- American College of Rheumatology Annual Conference, 2005, 16 hours, San
Diego, CA
- 2004 American Physical Therapy Association-Combined Sections Meeting, 2004, 28
hrs, Nashville, TN
- American Academy of Orthopaedic Manual Physical Therapists, 2004, 24 hrs,
Louisville, KY
- 2003 American Physical Therapy Association-Combined Sections Meeting, 2003, 28
hrs, Tampa, FL
- American Academy of Orthopaedic Manual Physical Therapists, 2003, 24 hrs,
Reno, NV
- 2002 American Physical Therapy Association-Combined Sections Meeting, 2002, 28
hrs, Boston, MA
- American Academy of Orthopaedic Manual Physical Therapists, 2002, 24 hrs,
Orlando, FL
- 2001 American Physical Therapy Association-Combined Sections Meeting, 2001, 28
hrs, San Antonio, TX
- American Academy of Orthopaedic Manual Physical Therapists, 2001, 24 hrs, San
Antonio, TX
- 3rd Rocky Mountain Workshop on How to Practice Evidence-Based Health Care:
A small group workshop, 2001

Current Teaching Responsibilities in the Entry-Level Physical Therapy Program (in sequence, by quarter or semester):

Fall:

DPT 781E Advanced Joint Manipulation
DPT 734 Musculoskeletal Management II
DPT 780T Virtual Rounds

Spring:

DPT 741T Management of Lumbo Pelvic Disorders
DPT 735 Musculoskeletal Management III
DPT 796 PT Capstone
DPT 780T Virtual Rounds

Summer:

DPT 742T Management of Cervical and Thoracic Disorders
DPT 780T Virtual Rounds
DPT 790T Clinical Fellowship Practicum