

Curriculum Vitae
Roy H. Bechtel, PT, PhD

DATE December 9, 2011

CONTACT INFORMATION

100 Penn Street, Suite 115
Baltimore, MD 21201
410 935 3001 - cell
roy.bechteler@gmail.com – email
working knowledge of Spanish

EDUCATION

1973	College of Wooster, Wooster, OH	BA	Urban Studies
1979	University of Maryland, Baltimore	BS	Physical Therapy
1982	New York University	MA	Physical Therapy
1998	University of Maryland	PhD	Biomechanics

Dissertation: Biomechanical properties of the axial interosseous ligament and surface topology of the human sacroiliac joint. Dissertation Abstracts International, 59 (6), 2626, Dec., 1998.

LICENSURE

Active California
Active Maryland
Active New York

EMPLOYMENT

ACADEMIC POSITIONS

1985 - 1996	Instructor, University of Maryland, Baltimore Department of Physical Therapy
1996 - 2011	Assistant Professor, University of Maryland, Baltimore Department of Physical Therapy

CLINICAL POSITIONS

1979-1981	Rusk Institute, New York University Medical Center Staff Physical Therapist
1981-1985	Biomechanics Lab, Rancho Los Amigos Medical Center, Downey, CA, Research Physical Therapist Researcher, teacher and advisor for student research projects

MEMBERSHIP IN SCIENTIFIC/PROFESSIONAL ORGANIZATIONS

1979 - present	American Physical Therapy Association (APTA), Section on Orthopedics
1979 - present	Phi Kappa Phi Honor Society
1981 - present	Kappa Delta Pi Honor Society
1990 - present	American Academy of Orthopedic Manual Physical Therapists
1998 - present	American Society of Biomechanics
2010 - present	North American Spine Society

HONORS AND AWARDS

1979	B.S. with Honors in Physical Therapy Research - University of Maryland Physical Therapy Dept.
1990	Faculty of the Year, University of Maryland Physical Therapy Dept.
2003	Named "Health Care Professional Hero" by Maryland Daily Record. http://www.mddailyrecord.com/health_heroes/2003winners.html
2007	Named to "Who's Who Among America's Teachers 2006-2007"
2011	Faculty of the Year UMSOM Department of Physical Therapy & Rehabilitation Science
2011	Alumni of the Year UMSOM Department of Physical Therapy & Rehabilitation Science

CLINICAL ACTIVITIES

Manual Orthopedic Physical Therapy
Frenkil Outpatient Rehabilitation Service, UMMC
Staff Physical Therapist – 20 patient visits/week, 20% FTE

Recent continuing education courses for Hospital staff and APTA of Maryland (see below) on manual techniques for patient management.

ADMINISTRATIVE SERVICE

INSTITUTIONAL SERVICE

1991 – 1993;	Admissions Committee – Department of Physical Therapy
2006-2011	Admissions Committee – Department of Physical Therapy
1993 - 2002	Clinical Executive Committee – Physical Therapy Department
1998 - 1999	Chair, Technology sub-committee
1998 - 2001	Advisory Committee – Physical Therapy Department
2000 - 2002	Chair, Technology Committee, Physical Therapy Department
2000 - 2005	Member, SOM Clinical Services Standards Committee
2003 - 2005	Alternate – School of Medicine Council
2003 - 2005	Member, School of Medicine Judicial Review Board
1999 - 2011	Associate Member, University of Maryland, Baltimore Graduate Faculty
1999 - 2011	Campus Fire Marshall
2000 - 2011	Special Member, Graduate Faculty, University of Maryland, College Park
2001 - 2011	Member, Health Sciences and Human Services Library Advisory Committee
2002 - 2011	Coordinator – Special topics courses, post-professional DScPT

LOCAL AND NATIONAL SERVICE

1998 - 2000	Chair, Education Committee, Maryland Chapter, APTA
2002 - 2009	Department Liaison to Board of Directors, Maryland Chapter, APTA
1999 - present	Ad-Hoc reviewer, <i>Physical Therapy</i>
2000 - present	Ad-Hoc reviewer, <i>Journal of Orthopaedic & Sports Physical Therapy</i>
2005 - present	Ad-Hoc reviewer, <i>Archives of Physical Medicine & Rehabilitation</i>
2008 - present	Ad-Hoc reviewer, <i>Journal of Biomechanics</i>
2008 - present	Ad-Hoc reviewer, <i>Medicine & Science in Sports & Exercise</i>
2009 - present	Ad-Hoc reviewer, <i>International Journal of Industrial Ergonomics</i>
2010 - present	Ad-Hoc reviewer, <i>Health Resources Administration – Geriatric Academic Career Award</i>

TEACHING SERVICE 2000-2011

ENTRY-LEVEL DPT PROGRAM

- DPTE 511 Basic Science Block I - lectures & labs (kinesiology)
50 students, 12 contact hours, 5 hours preparation
- DPTE 512 Professional Issues I – lectures (Research Basics for Physical Therapists)
50 students, 6 contact hours, 5 hours preparation
- DPTE 514 Basic Science Block III – lectures & labs (biomechanics)
50 students, 15 contact hours, 7.5 hours preparation
- DPTE 516 Medical Issues I – Course Coordinator- lectures & labs, organize seminars
50 students, 12 contact hours, 90 hours preparation
- DPTE 521 Medical issues II – Coordinator of Evidence-Based Practice Seminars
50 students, 6 contact hours, 5 hours preparation
- DPTE 522 Musculoskeletal Block I –Course Coordinator – lectures & labs, organize research seminars
50 students, 9 contact hours, 26 hours preparation
- DPTE 525 Musculoskeletal Block II – Course Coordinator - lectures & labs, organize research seminars
50 students, 120 contact hours, 5 hours preparation

POST-PROFESSIONAL DSCPT PROGRAM (2004-2011)

- DPTP 631 Capstone Project - Advising students for capstone project
4 students, 12 online hours, 12 hours preparation (reading, correcting)

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

1. Benjamin, S., Flood, J., **Bechtel, R.** and Alon, G. (2007) Measurement of soft tissue temperature and impedance following the application of transdermal direct current. *Physiotherapy* 93: 114-120.
2. **Bechtel, R.**, Cleland, J., and Smith, B. (2006) Researchers and Clinicians: A Growing Divide or Narrowing Gap? *J Orthop Sports Phys Ther* 36(7):451-461.
3. *Benjamin, S., Flood, J. and **Bechtel, R.** (2005) Isokinetic testing prior to and following anterior lumbar interbody fusion surgery: a pilot study. *Isokinetics and Exercise Science* 13(2): 159-162 .
4. ***Bechtel, R.** (2001) Physical characteristics of the axial interosseous ligament of the human sacroiliac joint. *The Spine Journal* 1(4): 255-259.
5. * **Bechtel, R.** & Caldwell, G. (1994) The influence of task and angle on torque production and muscle activity at the elbow. *J Electromyog and Kines* 4(4): 195-204.
6. * Herzenberg, J.E., Scheufele, L.L., Paley, D., **Bechtel, R.**, & Tepper, S. (1994) Knee range of motion in isolated femoral lengthening. *Clin Orthop and Related Res*, 301, 49-54.
7. * Colangelo, G.A., Hobart, D.J., Belenky, M.M. & **Bechtel, R.** (1991) Elbow angle during a simulated task requiring fine psychomotor control". *Journal of Dental Education* 55(12), 785-788.

MAJOR INVITED SPEECHES

1. * **Bechtel, R.** (November, 1998) Biomechanical examination of the 'posterior axial' ligament of the sacroiliac joint - presented to the 3rd Interdisciplinary World Congress on Low Back and Pelvic Pain, Vienna, Austria.
2. * **Bechtel, R.** (1994) The effect of selected parameters of muscle energy technique on paraspinal EMG in healthy individuals - presented to the International Society of Electromyographic Kinesiology (ISEK), Charleston, SC.
3. ***Bechtel, R.** (1987) Frequency spectrum analysis in idiopathic scoliosis - presented to the International Society of Electromyographic Kinesiology (ISEK), Baltimore.
4. * **Bechtel, R.** (1982, 1983) Toward a prognostic index for idiopathic scoliosis - presented to the American Physical Therapy Associations of New York and California.

PROFFERED COMMUNICATIONS

1. **Bechtel, R.** (March, 2011) "Eclectic Manual Techniques for Management of the Patient with Orthopedic Dysfunction." – presented for American Physical Therapy Association of Maryland, at Franklin Square Hospital, March 5, 2011.
2. **Bechtel, R., Benjamin, S.** (October 2009) "Exercises to improve multifidus recruitment in rehabilitation" – poster presented at the AAOMPT National Conference, Crystal City Virginia, October 16-18, 2009.
3. Auburn, A., Benjamin, S., and **Bechtel, R.** (May 2009) "Prolotherapy for pelvic ligament pain: a case report", Prolotherapy Journal.
4. **Bechtel, R.** Benjamin, S. and Liu, W. (November 2007) "Multifidus inhibition in an elite cyclist" – poster presented at the 6th Interdisciplinary World Congress on Low Back and Pelvic Pain, Barcelona, Spain, November 2007.
5. **Bechtel, R., Benjamin, S.** (October, 2006) "Rehabilitation after Artificial Disc Replacement – an evidence-based guide" (Red Bank, New Jersey).
6. **Bechtel, R.** (July, 2004) "Antidote Exercises to Protect the Back" – presented to School of Nursing standardized patients (Baltimore, MD).
7. **Bechtel, R.** (September, 2002) "Intrinsic factors in Low Back Pain" – presented as part of Doctor's Community Hospital's medical inservice program (Landover, Maryland).
8. **Bechtel, R.** (November, 2001) "Intrinsic factors in Low Back Pain" – presented as part of Laurel Regional Hospital's medical inservice program (Laurel, Maryland).
9. Anderson, **Bechtel**, et al., (March, 2001) "Medical & Complementary Management of low Back Pain" – sponsored by the University of Maryland Physical therapy Alumni Association.
10. **Bechtel, R., Hamilton, C.** (October, 1995) "Spinal Manipulation from Cyriax to Paris"- presented at the annual meeting of the Maryland State Chapter of the APTA.
11. **Bechtel, R., Harvey, L., & Waller, S.** (November, 1995) "Orthopedic Physical Therapy in Trauma" - Workshop at University Castelo Branco, Rio de Janeiro, Brazil.
12. Anderson, P., DeDeyne, P., & **Bechtel, R.** (March, 1994) "Clinical Anatomy Review: The Shoulder" - sponsored by the University of Maryland Physical Therapy Alumni Association.
13. Anderson, P., & **Bechtel, R.** (April, 1993) "Clinical Anatomy Review: The Lumbar Spine, Pelvis and Hip" - sponsored by the University of Maryland Physical Therapy Alumni Association.

BOOKS

Benjamin, S., **Bechtel, R.**, and Conroy, V. (2011). "Cram Sessions in Functional Anatomy: A Handbook for Students and Clinicians ". Slack Incorporated.