

Bryon T. Ballantyne, PT, PhD
Assistant Professor
Physical Therapy Department
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Education:

University of Iowa
Iowa City, Iowa
2002 – 2005
Physical Rehabilitation Science, PhD

University of Iowa
Iowa City, Iowa
1989 – 1991
Physical Therapy, MA

University of Iowa
Iowa City, Iowa
1982 – 1984
Physical Therapy, Cert of PT

University of Northern Iowa
Cedar Falls, Iowa
1978 – 1982
Biology, BA

Licensure Information/Registration Number:

Iowa #01208

Certifications:

Employment and Positions Held:

Academic: Associate Professor
Physical Therapy Department
St. Ambrose University
Davenport, Iowa
7/06 to present

Adjunct Associate Clinical Professor
Physical Therapy Graduate Program
University of Iowa
Iowa City, Iowa
8/07 to present

Assistant Professor
Physical Therapy Department
St. Ambrose University
Davenport, Iowa
7/04 - 7/06

Instructor
Physical Therapy Department
St. Ambrose University
Davenport, Iowa
7/02 - 7/04

Professional/Non-Academic

Staff Physical Therapist/Research Coordinator
Joyner Sportsmedicine Institute
Lexington, KY & Richmond, KY
12/97 - 6/02

Research Physical Therapist
Sensory Motor Performance Program
Rehabilitation Institute of Chicago
Chicago, IL
5/96 - 12/97

Staff Physical Therapist
Villa Compana Health Care Center
Tucson, AZ
2/95 - 5/96

Motion Analysis Laboratory Clinical Coordinator
Arizona Movement and Balance Laboratory
Rehabilitation Institute of Tucson
Tucson, AZ
6/94 - 2/95

Associate Instructor
Physical Therapy Graduate Program
The University of Iowa
Iowa City, Iowa
8/92 - 6/94

Physical Therapy Consultant (part-time)
Cedar Manor Care Center and Clarence Nursing Home
Clarence, IA
8/90 - 8/92

Staff Physical Therapist (part-time)
St. Luke's Hospital

Cedar Rapids, IA
8/89 - 8/90

Staff Physical Therapist/Motion Analysis laboratory Supervisor
Harmarville Rehabilitation Center
Harmarville, PA
3/87 - 8/89

Staff Physical Therapist
Mesa Lutheran Hospital
Mesa, AZ
6/84 -3/87

Peer Reviewed Publications:

McCrary JL, Quick NE, Shapiro R, Ballantyne BT, Davis IS. The effect of a single treatment of the Protonics™ system on lower extremity kinematics during gait and the lateral step up exercise. **Gait & Posture**, 2007; 25:544-548.

Denton J, Willson JD, Ballantyne BT, McClay Davis IS. The Addition of the Protonics Brace System to a Standard Patellofemoral Rehabilitation Protocol: Effect on Clinical Measures and Efficacy. **J Ortho Sports Phys Ther**, 2005; 35:210-219.

McCrary JL, Quick NE, Shapiro R, Ballantyne BT, McClay Davis IS. The effect of a single treatment of the Protonics system on biceps femoris and gluteus medius activation during gait and the lateral step up exercise. **Gait & Posture**, 2004; 19:148-53.

Leetun DT, Ireland ML, Willson JD, Ballantyne BT, McClay Davis IS. Core stability measures as risk factors for lower extremity injury in athletes. **Med Sci Sports Exerc**, 2004; 36:926-934.

Ireland ML, Willson JD, Ballantyne BT, McClay Davis IS. Hip Strength in Females With and Without Patellofemoral Pain. **J Ortho Sports Phys Ther**, 2003; 33:671-676.

Ott SM, Ireland ML, Pace J, Ballantyne BT, McClay Davis IS. Comparison of outcomes between males and females after anterior cruciate ligament reconstruction. **Knee Surg, Sports Traumatol, Arthrosc**, 2003; 11:75-80.

Sathe VK, Ireland ML, Ballantyne BT, Quick NE, McClay Davis IS. Acute effects of the Protonics system on patellofemoral alignment: An MRI study. **Knee Surg, Sports Traumatol, Arthrosc**, 2002; 10:44-48.

Ireland ML, Ballantyne BT, Little K, McClay IS. A radiographic analysis of the relationship between the size and shape of the intercondylar notch and anterior cruciate ligament injury. **Knee Surg, Sports Traumatol, Arthrosc**, 2001; 9:200-205.

Soderberg G, Ballantyne BT, Kestel L. Reliability of lower extremity girth measurements after anterior cruciate ligament reconstruction. **Physiother Res Int**, 1996; 1:7-16.

Ballantyne BT, French A, Heimsoth S, Kachingwe A, Lee J, Soderberg G. Influence of examiner experience and gender on interrater reliability of KT-1000 arthrometer measurements. **Phys Ther**, 1995; 75:898-906.

Knutson L, Soderberg G, Ballantyne BT, Clark W. A study of various normalization procedures for within day electromyographic data. **J Electromyogr Kinesiol**, 1994; 4:47-59.

Ballantyne BT, O'Hare S, Paschall J, Pavia-Smith M, Pitz A, Gillon J, Soderberg G. Electromyographic activity of selected shoulder muscles in commonly used therapeutic exercises. **Phys Ther**, 1993; 73:668-682.

Ballantyne BT, Kukulka C, Soderberg G. Motor unit recruitment in human medial gastrocnemius muscle during combined knee flexion and plantarflexion. **Exp Brain Res**, 1992; 93:492-498.

Ballantyne BT, Lorenz W, Reser M, Smidt G: The Effects of Inversion Traction on Spinal Column Configuration, Heart Rate, Blood Pressure, and Perceived Discomfort. **J Ortho Sports Phys Ther**, 1986; 7:254-260.

Published Abstracts of Peer Reviewed Presentations:

Ballantyne BT, Leetun D, Ireland ML, McClay IS: Differences in core stability between male and female collegiate basketball athletes as measured by trunk and hip muscle performance. *Med Sci Sports Exerc*, 33:S331, 2001.

McCrorry JL, Quick NE, Ballantyne BT, McClay IS: Effects of a resistive dynamic knee orthosis on muscle activations during the lateral step-up. *Med Sci Sports Exerc*, 33: S197, 2001.

Peer Reviewed Scientific and Professional Presentations

Ballantyne BT, Shields RK. Muscle fatigue alters neuromuscular performance during resisted weight bearing exercise. American College of Sports Medicine, Denver, CO, 2006

Sathe VM, Ireland ML, Ballantyne BT, Quick NE, McClay IS: Acute effects of the Protonics™ system on patellofemoral alignment: An MRI study. American College of Sports Medicine, Indianapolis, IN, 2000.

Ott S, Ireland ML, Ballantyne BT, McClay, IS: Comparison of outcomes between males and females after ACL reconstruction. American College of Sports Medicine, Indianapolis, IN, 2000.

Crook S, Ballantyne BT, McClay IS, DeBilzan JG: Reliability of an advanced functional assessment series. American College of Sports Medicine, Seattle, WA, 1999.

Chen DF, Ballantyne BT, Rymer WZ: Effects of human motoneuron background firing rates on the response probabilities to Ia afferent stimulation. Society of Neuroscience, New Orleans, LA, 1997.

Zhang L, Huang H, Nishida K, Zeng K, Ballantyne BT, Rymer WZ: Quantification of tendon reflex in normal and spastic limbs. IEEE/EMBS, Chicago, IL, 1997.

Abstracts:

Non-Peer Reviewed Publications:

Non-Peer Reviewed Presentations:

Integrating Evidence into Practice. IPTA Annual Spring Conference, Ames, IA, 2008

The Influence of Quadriceps Muscle Fatigue on Neuromuscular Control During a Novel Weight-bearing Activity. University of South Dakota, Physical Therapy Education Program, Vermillion, SD, 2007

An Introduction to Evidence-Based Practice. Great River Medical Center, Burlington, IA 2007

Integrating Evidence into Practice. IPTA Annual Spring Conference, Ames, IA, 2005

Introduction to Evidence-Based Practice. Rock Valley Physical Therapy, Davenport, IA, 2004

Segmental Stabilization Exercises for Low Back Pain: Theory and Practice. Kentucky Sports Medicine Clinic, Lexington, KY, 2000.

Critical Evaluation of Scientific Literature. Kentucky Sports Medicine Clinic, Lexington, KY, 2000.

Research Tools for the Assessment of Functional Outcomes for the Knee. Fall Sports Medicine Symposium, Lexington, KY, 1998.

Effects of Knee Angle on Motor Unit Recruitment in Medial Gastrocnemius Muscle during Combined Force Tasks. APTA Annual Conference, Denver, CO, 1992.

Funded/In Review Grant Activity:

Other Scholarly Products:

Research Activity:

The Effect of Partial Body Weight Support on Sit-to-Stand Transfers in Healthy Adults;
in progress and unfunded

Continuing Education Workshops Organized:

Evidence-based Practice Symposium, St. Ambrose University, April 2008

Evidence-based Practice Symposium, St. Ambrose University, April 2007

Evidence-based Practice Symposium, St. Ambrose University, April 2006

Membership in Scientific/Professional Organizations:

- American Physical Therapy Association, Active member, 1984 to present
- American Physical Therapy Association, Orthopedic section member, 1998 to present
- Iowa Physical Therapy Association, Active member, 2002 to present
- American College of Sports Medicine, Active member, 2005 to present

Consultative and Advisory Positions Held:

Scientific Review Committee

Genesis Health Systems

2008 to present

Community Service:

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

- Faculty committee, Physical Therapy Department, 2002 to present
- Curriculum Committee, Physical Therapy Department, 2003 to present
- Research, Resources, and Technology Committee, 2003 to present
- Academic Support Committee, University-wide, 2007 to 2008

Honors and Awards:

- Clinical Research Award, Iowa Physical Therapy Association, 2004
- Mary McMillan Scholarship recipient, American Physical Therapy Association, 1991

Continuing Education Attended:

- Write Winning Grants, Grant Writers' Seminars & Workshops, University of Iowa, Iowa City, IA, February 2008
- Evidence-based Examination and Selected Interventions for Patients with Cervical Spine Disorders, Evidence in Motion, St. Ambrose University, Davenport, IA, August 2007
- Gross Human Anatomy for Graduate Students (Course Number 60:203), University of Iowa, Iowa City, IA May-Aug, 2006
- Teaching Evidence-based Practice in Rehabilitation Professional Curricula, Boston University, Boston, MA, May 2003

Current Teaching Responsibilities in the Entry-level Physical Therapy Program:

- DPT 500: Human Gross Anatomy, Fall Semester
- DPT 531: Functional Anatomy, Fall Semester
- DPT 650: Issues in Research I, Spring Semester
- DPT 705: Critical Inquiry, Spring Semester
- DPT 790: Evidence-based Practice, Summer Session

Updated 7-30-08