

Currículum Vitae

David William Echelmeyer, MPT, OCS

Physical Therapist
Mizzou Therapy Services
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Education

Rockhurst University, Kansas City, Missouri
Bachelors of Science in Biology, May 1999

Rockhurst University, Kansas City, Missouri
Masters of Physical Therapy, May 2001

Present Position

Physical Therapist, Mizzou Therapy Services, Columbia, Missouri

Director of Orthopedic Physical Therapy Residency, Mizzou Therapy Services,
Columbia, Missouri.

Adjunct Faculty Member, Department of Physical Therapy, School of
Health Professions, University of Missouri, Columbia, Missouri

Certifications

Orthopedic Certified Specialist Exam: 5/16/2011: Certification number 40453

Selective Functional Movement Assessment Certification: 9/6/2016

Functional Dry Needling Level 1 Certification: 7/9/17

Licensure

Missouri Physical Therapy Licensure granted September, 2001 #2001024768

Honors/Awards

College

- Magna Cum Laude, Rockhurst University, May 1999

Peer Reviewed Scientific and Professional Presentations:

Echelmeyer D, Willis BW, Guess M, Sherman SL, Gray AG, Blecha K, Guess T.
“Comparing Peak Hip and Knee Flexion during the Lateral Step Down Test between
the Kinect™ and Vicon™: Examining Subjects with and without ACL-
Reconstruction”. *American Physical Therapy Association, Combined Section Meeting*.
Poster Presentation. New Orleans, February, 2018. Accepted.

Gibson K, **Echelmeyer D**. "Use of Sport Video Analysis Software Improves Feedback in Physical Therapy Psychomotor Skills Assessment." *American Physical Therapy Association, Combined Section Meeting*. Platform Presentation. San Antonio, February, 2017.

Current/Active Research Activity:

Title: Correlation of Findings Between a Visual Assessment Rating Scale and the Microsoft Kinect During a Lateral Step Down Test.

PI: David Echelmeyer

Date: (3)2017- Present

Title: Mapping the Outcomes: A Retrospective Data Analysis of Our Return to Sport Protocol in Athletes who have undergone Ligamentous Reconstruction.

PI: Seth Sherman, MD

Date: (11)2016- Present

Role: Research Staff

Title: Correlating motion analysis systems and clinical testing to establish an appropriate return to sport protocol following ACL reconstruction in athletes.

PI: Seth Sherman, MD

Date: (12)2014-Present

Role: Research Staff

Title: A Comparison of Open vs Mini Surgical Repair for Achilles Tendon Ruptures

PI: Seth Sherman, MD

Date: (8)2016-Present

Role: Research Staff

Non-Peer Reviewed Presentations

Sherman SL, Willis BW, **Echelmeyer D**. "Return to Sport Testing" Sports Medicine Grand Rounds. Missouri Orthopaedic Institute. (Non-presenting author). Columbia, Mo. May 2017.

Echelmeyer, D. "Safety Considerations in Exercise: The Spine". Invited Lecture. University of Missouri. Introduction to Exercise and Fitness. November 2017, 2018.

Echelmeyer D. "Manual Therapy Approach to Treating Spinal Stenosis". Invited Lecture. PT THR 8080 Special Skills in Physical Therapy. University of Missouri, Department of Physical Therapy. Course Instructor: Teresa Briedwell. February 2012, 2013, 2014, 2015, 2016, 2017.

Echelmeyer D, Buehler J. "Selective Functional Movement Assessment". Invited Lecture. University of Missouri, Department of Physical Therapy PH THR 8080 Special Skills in Physical Therapy. Course instructor: Teresa Briedwell. February 2017.

Echelmeyer D. “Neural Dynamics Testing and Treatment”. Invited Lecture. University of Missouri, Department of Physical Therapy PH THR 8080 Special Skills in Physical Therapy. Course Instructor: Teresa Briedwell, March 2011, 2012, 2013, 2014

Echelmeyer D. “Running Video Gait Analysis”. Invited Lecture. University of Missouri, Department of Physical Therapy PH THR 8080 Special Skills in Physical Therapy. Course Instructor: Teresa Briedwell, March 2015, 2016.

Echelmeyer D. “Lumbar Spine Segmental Stability”. Invited Lecture. Winona State University Athletic Training Program, Winona MN. March 2007.

Echelmeyer D. “Profession of Physical Therapy”. Invited Lecture. Dover-Eyota High School, Dover MN. October 2006.

Continuing Education Workshops Presented (non-peer reviewed)

Echelmeyer D. “Selective Functional Movement Assessment”. *Missouri Orthopedic Sports Medicine Meeting*. 4 contact hours. August 2017.

Echelmeyer D. “Hamstring Strain Injuries: Mechanism and Rehab. *Missouri Orthopedic Sports Medicine Meeting*. 1 contact hour. August 2015.

Echelmeyer D. “Explanation of Abnormal Hip and Knee Biomechanics”. *Missouri Orthopedic Sports Medicine Meeting*. 1 contact hour. August 2013.

Echelmeyer D. “Return to Sport Criteria: ACL Reconstruction”. *Missouri Orthopedic Sports Medicine Meeting*. 1 contact hour. October 2012.

Echelmeyer D. “Neural Dynamics Testing and Treatment”. *Missouri Orthopedic Institute Sports Medicine Meeting*. 1 Contact Hour. January 2011.

Echelmeyer D. “Neural Dynamics Testing and Treatment”. *SSM Physical Therapy In-service*. 1 Contact Hour. January 2007, 2008.

Echelmeyer D. “Physical Therapy Model for Examination and Treatment of the Foot and Ankle”. *SSM Physical Therapy In-service*. 1 Contact Hour. November 2008.

Current Teaching Responsibilities

Course #/Name: PH THR 7620 Introduction to Orthopedic Physical Therapy with Laboratory

Role in Course: Lab Assistant

Location in Curriculum: Spring, 2nd Semester

Course Description: Evaluation concepts and process is taught for each joint in the body including the spine. Common orthopedic diagnoses are covered.

Dates: 2012 to present

Course #/Name: PH THR 7680 Orthopedic Physical Therapy with Laboratory
Role in Course: Co-Teach
Location in Curriculum: Fall, 1st Semester
Course Description: Orthopedic exam is expanded upon. Treatment concepts are focused on including manual therapy, exercise, neuromuscular re-education and therapeutic activities.
Dates: 2012 to present

Previous Professional Positions and Appointments

Assistant Lab Instructor, Saint Louis University, Saint Louis, Missouri, August 2009-May 2010

Physical Therapist, SSM Physical Therapy, St. Peters, Missouri, July 2007-June 2010

Physical Therapist, Sport & Spine Physical Therapy, Winona, Minnesota, October 2005-June 2007

Physical Therapist, Austin Medical Center, Austin, Minnesota, June 2004-October 2005

Physical Therapist, PRORehab, p.c., Saint Louis, Missouri, May 2001-May 2004

Membership in Scientific/Professional Organizations

American Physical Therapy Association (APTA). 1998-Present

- Orthopedic Section. 2010-Present

Missouri Physical Therapy Association (MPTA). 1998-Present

Continuing Education Attended:

- Kinetacore Functional Dry Needling Level 1. Columbia, MO. July 2017
- Combined Sections Meeting, American Physical Therapy Association. San Antonio, TX. February 2017
- Selective Functional Movement Assessment: Level 2. Des Plaines, IL. August 2016
- Maitland-M-ST-Stabilization. Columbia, MO. March 2016
- Science of Running Medicine. Chicago, IL. December 2015
- University of Florida Running Medicine Conference. Gainesville, FL. February 2014.
- Mulligan Concept for Upper Quadrant Mobilizations with Movement. Columbia, MO. November 2013.
- Selective Functional Movement Assessment: Level 1. St. Louis, MO. September 2013
- Lower Quarter Management of Overuse & Traumatic Injuries Related to the Running Athlete. Kansas City, MO. May 2013.
- Current Manual Therapy and Neuromuscular Stabilization Concepts for the Lumbar Spine and Sacroiliac Joint. St. Louis, MO. August 2012.

- Current Concepts in Orthopedic Physical Therapy. APTA Home Study Course. November 2011.
- Examination and Interventions for Shoulder Pathologies: A Practical and Evidence-Based Approach. St. Louis, MO. March 2010
- Masters Clinicians Approach to Advanced Concepts in Examination and Treatment of the Shoulder Complex. St. Louis, MO. April 2009.
- Recent Advances in the Evaluation and Treatment of the Shoulder Complex. Minneapolis, MN. December 2006.
- Sixteenth Annual Mayo Clinic Symposium on Sports Medicine. Rochester, MN. November 2006.
- NAIOMT: Thoracic Region Level III. Mukwonago, WI. February 2006.
- NAIOMT: Lower Quadrant Level III. Madison-Mukwanago, WI. February-March, 2005.
- Fourteenth Annual Mayo Clinic Symposium on Sports Medicine. Rochester, MN. November 2004.
- NAIOMT: Upper Quadrant Level III. St. Louis, MO. July-August 2004.
- NAIOMT: Lower Quadrant Level II. St. Louis, MO. January 2004.
- NAIOMT: Upper Quadrant Level II. St. Louis, MO. July-August 2003.
- The Foot: Physical Therapy Evaluation and Management of Common Disorders. St. Louis, MO. September 2003.
- Mobilization of the Nervous System. St. Louis, MO April 2003.
- NAIOMT: Assessment and Treatment of the Cervical Spine. St. Louis, MO 2002.
- Management of the Whiplash Patient. Osage Beach, MO. April 2002.
- Evaluation and Treatment of the Complex Shoulder. St. Louis, MO. 2001.

Service

Medical Service Trip to Ecuador, June 2000

Medical Service Trip to Guatemala, March 2003