DYNAMIC JOINT FUNCTION ASSESSMENT FOR ENHANCING UNDERSTANDING AND TREATMENT OF MUSCULOSKELETAL INJURY AND DISEASE

Featuring Dr. Scott Tashman
University of Texas Health Science Center

October 6, 2017 | 12:00 - 1:15 pm | H&K112
Parking Available in Lot T

ABOUT DR. TASHMAN

In June 2016, Dr. Tashman began his new position as a Professor in the Department of Orthopaedic Surgery at the University of Texas Health Science Center in Houston. He also serves as the Director of Biomedical Engineering for the Steadman Philippon Research Institute (SPRI). Dr. Tashman’s primary areas of expertise are in vivo, dynamic assessment of joint function and musculoskeletal modeling. His work is highly translational, working together with orthopaedic surgeons, rehabilitation specialists and other scientists on studies to improve knowledge, diagnosis and treatment of musculoskeletal injury/disease. His research has focused on the relationships between musculoskeletal function and the development, treatment and prevention of orthopaedic injury/disease, including ligament/meniscus injury, osteoarthritis, disorders of the cervical and lumbar spine and neuromuscular diseases.

LEARNING OBJECTIVES

• Introduce the concepts of dynamic stereo-radiographic x-ray iDSX) imaging for assessing musculoskeletal function
• Discuss the advantages and disadvantages of DSX relative to traditional motion analysis methods
• Describe how DSX and other imaging technologies such as MRI can be combined to assess multiple joint tissues
• Present specific applications of DSX for orthopaedic research on musculoskeletal injury, disease and treatment

The presenter, Scott Tashman, M.D., has disclosed the following financial interest: patent holder of C-Motion, Inc. The planning committee, Nick Stergiou, Ph.D., Jeffrey Kaipust, M.S., Angela Collins, B.S., and Jackie Farley, CPP have no financial conflict of interest to disclose.

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