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Orthopaedic Surgeon Bruce Steinberg, MD, Announces Groundbreaking Research to Be Published Internationally

Jacksonville, FL, February 21, 2011 – Bruce Steinberg, MD, Jacksonville Orthopaedic Institute (JOI) surgeon and founder, announces that his paper, “Quantitative Muscle Hardness as a Noninvasive Means for Detecting Patients At Risk of Compartment Syndromes” has been accepted for publication by *Physiological Measurement*, an international, peer-reviewed publication. The paper was co-authored by Ryan Riel, MD, Marshal Armitage, MD, and Hudson Berrey, MD, of the Department of Orthopaedic Surgery and Rehabilitation Health Science Center, Shands Jacksonville, University of Florida.

The publication is a journal for sensors, instrumentation and systems in physiology and medicine. It covers the quantitative assessment and visualization of physiological function in clinical research and practice, with an emphasis on the development of new methods of measurement and their validation.

Dr. Steinberg and his co-authors report on a benchmark clinical study validating quantitative muscle hardness and a device developed by Dr. Steinberg. In general, the device can be used to evaluate limb swelling, limb pain, muscle tone and muscle spasm. Also, the device can aid in the evaluation of medical conditions, such as limb edema, limb trauma, cellulitis, infections (abscess), hematoma, insect bites, snake bites, allergic reactions, contusions, stroke, cerebral palsy, paralysis, contractures, muscle strains and muscle ruptures.

There is demonstrated interest and excitement by the medical community for this device because it is non-invasive and shows great promise in providing additional and enhanced diagnostic information for physicians.

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About Jacksonville Orthopaedic Institute

Jacksonville Orthopaedic Institute (JOI) is a 32-physician group practice serving Northeast Florida and Southeast Georgia. JOI doctors offer seven convenient offices and nine rehabilitation centers, and each is dedicated to the mission of providing high quality orthopaedic health care for patients with musculoskeletal disorders. Strategic areas of services include hand (including upper extremities), foot and ankle, joint replacement, spine, and sports medicine. JOI is the “exclusive sports medicine provider” for the NFL’s Jacksonville Jaguars and the Jacksonville Sharks organizations.