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Sonoelastography for skeletal muscle muscles

Gi-Young Park

Daegu Catholic University School of Medicine, South Korea

Real-time sonoelastography is a recently developed ultrasound-based imaging technique that evaluates tissue elasticity in real time. It is based on the principle that the compression of tissue produces a strain (displacement) that is lower in hard tissue and higher in soft tissue. Real-time sonoelastography provides information on tissue elasticity, in addition to the shape and vascularity, which are obtained via B-mode and Doppler ultrasound. Similar to B-mode ultrasound, manual or mechanical compression with the transducer and real-time visualization are now available for real-time sonoelastography in actual clinical practice. Tissue elasticity not only varies among different tissues but also seems to reflect disease-induced alternations in tissue properties. Real-time sonoelastography was recently applied to the normal and pathologic tissues in skeletal muscle disease, and it showed promising results and new potentialities. Therefore, it is expected to be a useful imaging modality for providing novel diagnostic information in skeletal muscle diseases because tissue elasticity is closely related to its pathology. It can also be used as a research tool to provide insight into the biomechanics and pathophysiology of skeletal muscle abnormality.

Biography

Gi-Young Park graduated and got degree of MD, phd from Yonsei University College of Medicine (Seoul, Korea). He has been a head professor of Department of Rehabilitation Medicine in Daegu Catholic University Hospital since 2008. He published more than 100 papers in reputed journals and elected as the next president of Korean Academy of Neuromusculoskeletal Sonography. He have been teaching rehabilitation medicine and neuromusculoskeletal ultrasound since 1995 and has given many lectures and hands on instructions at courses organized by universities, academies, and societies in Korea, Taiwan, China, Japan, India, and Myanmar etc.

Parkgy@cu.ac.kr

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