



PARKINSON'S DISEASE NEWS

<http://www.viartis.net/parkinsons.disease/news.htm>

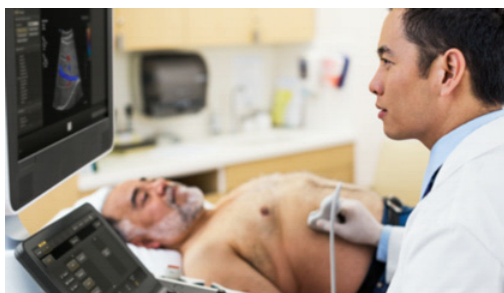
20th July 2016 - New research

ULTRASOUND ELASTOGRAPHY NEW MEANS OF ASSESSING RIGIDITY IN PARKINSON'S DISEASE

Ultrasound elastography is a means of assessing the mechanical properties of tissue, by applying stress and detecting tissue displacement using ultrasound. It provides information on tissue stiffness. For more information go to :

http://www.toshibamedicalsystems.com/products/us/aplio_shear.html

Ultrasound shear wave elastography has been used to assess muscle stiffness in people with Parkinson's Disease. The assessments were made by assessing the biceps of people with Parkinson's Disease.



Ultrasound shear wave elastography of the longitudinal biceps brachii was performed on 46 people with Parkinson's Disease and 31 healthy controls. The mean Young's modulus was 59 kPa in remarkably symptomatic arms, 47 kPa in mildly symptomatic arms, and 24 kPa in healthy controls. A significant difference was found between healthy controls and all people with Parkinson's Disease.

The distinctiveness of the results enable Ultrasound shear wave elastography to be used as a quantitative assessment of muscle stiffness in people with Parkinson's Disease.

Reference : Clinical Imaging [2016] 40 (6) : 1075-1080 (L.J.Du, W.He, L.G. Cheng, S.Li, Y.S.Pan, J.Gao) Complete abstract : <http://www.ncbi.nlm.nih.gov/pubmed/27408992>

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