Tendo-deformational characteristic of soft tissue (muscle tissue) measured by myotonometer

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The purpose of the research described in this work is to answer how to measure the rheologic (viscoelastic) properties and tendo-deformational characteristics of soft tissue. The method would also deals with the resemblance of muscle palpation examination as it is known in clinical practice. For this purpose, an instrument with the working name “myotonometer” has been used. The Myotonometer measures constrain dislodging attributes of muscle and different tissues situated underneath the measuring test. At present, there is lack of objective methods for assessing the muscle tone by viscous and elastic properties of soft tissue. That is why we decided to focus on creating or finding quantitative and qualitative methodology capable to specify muscle tone.

Biography

Petr Sifta completed PhD from Faculty of Physical Education and Sport, Charles University in Prague and Post-graduate in Biomechanics during 2002-2005 and working in External cooperation with Technical University in Liberec, Faculty of mechanical engineering from 2008. He is a member of Czech Society of Kinesiology from 2008.

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