Comparative Analysis of the Elastography Technologies in Ultrasonic Diagnostic Devices Using Elastography Phantom

N. S. Kulberg[1, 2], L. V. Osipov[1], M. S. Usanov[2]

[1] Scientific Practical Radiology Center of the Department of Healthcare of Moscow
[2] Federal Research Center «Computer Science and Control» RAS, Moscow

Abstract

Our goal in current work is to compare existing elastography technologies, provided by different ultrasound diagnostic devices manufacturers. The domestic technology «Elastografica», developed by authors also participated in the comparison. Every device that took part in the comparison was tested with the same masses of breast elastography phantom. We focused on evaluating physical properties of investigated objects.

Key words: Elastography, Real Time Elastography, Shear-Wave Elastography, Acoustic Radiation Force Impulse Imaging (ARFI), Elastography Phantom, Import-Substitution Technologies.

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Authors

Kulberg Nikolaj Sergeevich, Ph. D. in Engineering, Head of Department, Scientific Practical Radiology Center of the Department of Healthcare of the Government of Moscow.
Address: 28/1, ul. Srednjaja Kalitnikovskaja, Moscow, 109029, Russia.
Phone number: +7 495 671-56-48. E-mail: kulberg@npcmr.org.ru

Osipov Lev Vasil'evich, Doctor of Science, Leading Researcher, Scientific Practical Radiology Center of Moscow.
Address: 28/1, ul. Srednjaja Kalitnikovskaja, Moscow, 109029, Russia.
Phone number: +7 495 671-56-48.

Usanov Mihail Sergeevich, Graduate Student, Federal Research Center «Computer science and control» RAS.
Address: 44/2, ul. Vavilova, Moscow, 119333, Russia.
Phone number: +7 (499) 135-62-60.