

# Peer Reviewed Articles Published on ShearWave™ Elastography for Muscles and Tendons Imaging

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1. **Shear wave elastography reveals different degrees of passive and active stiffness of the neck extensor muscles.** Dieterich AV, Andrade RJ, Le Sant G, Falla D, Petzke F, Hug F, Nordez A. *Eur J Appl Physiol.* 2016 Dec 2.
2. **The effects of a 4-week static stretching programme on the individual muscles comprising the hamstrings.** Ichihashi N, Umegaki H, Ikezoe T, Nakamura M, Nishishita S, Fujita K, Umehara J, Nakao S, Ibuki S. *J Sports Sci.* 2016 Dec;34(23):2155-2159.
3. **Evaluation of normal and pathological Achilles tendon by real-time shear wave elastography.** Petrescu PH, Izvernariu DA, Iancu C, Dinu GO, Crişan D, Popescu SA, Şirli RL, Nistor BM, RăuŢia IC, Lăzureanu DC, Dema S, Prejbeanu IR, Sporea I. *Rom J Morphol Embryol.* 2016;57(2 Suppl):785-790.
4. **Restoration of Heel Pad Elasticity in Heel Pad Syndrome Evaluated by Shear Wave Elastography.** Lin CY, Wu CH, Özçakar L. *Am J Phys Med Rehabil.* 2016 Nov 4.
5. **Application of shear wave elastography to estimate the stiffness of the male striated urethral sphincter during voluntary contractions.** Stafford RE, Aljuraifani R, Hug F, Hodges PW. *BJU Int.* 2016 Oct 18. doi: 10.1111/bju.13688.
6. **Biomechanical Effect of Margin Convergence Techniques: Quantitative Assessment of Supraspinatus Muscle Stiffness.** Hatta T, Giambini H, Zhao C, Sperling JW, Steinmann SP, Itoi E, An KN. *PLoS One.* 2016 Sep 1;11(9):e0162110.
7. **Evaluation of the Tibial Nerve with Shear-Wave Elastography: A Potential Sonographic Method for the Diagnosis of Diabetic Peripheral Neuropathy.** Dikici AS, Ustabasioglu FE, Delil S, Nalbantoglu M, Korkmaz B, Bakan S, Kula O, Uzun N, Mihmanli I, Kantarci F. *Radiology.* 2016 Sep 19:160135.
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9. **Increase in passive muscle tension of the quadriceps muscle heads in jumping athletes with patellar tendinopathy.** Zhang ZJ, Ng GY, Lee WC, Fu SN. *Scand J Med Sci Sports.* 2016 Aug 19. doi: 10.1111/sms.12749.
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11. **Non-invasive assessment of human multifidus muscle stiffness using ultrasound shear wave elastography: A feasibility study.** Moreau B, Vergari C, Gad H, Sandoz B, Skalli W, Laporte S. *Proc Inst Mech Eng H.* 2016 Aug;230(8):809-14.
12. **A Six-Week Resistance Training Program Does Not Change Shear Modulus of the Triceps Brachii.** Akagi R, Shikiba T, Tanaka J, Takahashi H. *J Appl Biomech.* 2016 Aug;32(4):373-8.
13. **Shear Modulus of the Lower Leg Muscles in Patients with Medial Tibial Stress Syndrome.** Akiyama K, Akagi R, Hirayama K, Hirose N, Takahashi H, Fukubayashi T. *Ultrasound Med Biol.* 2016 Aug;42(8):1779-83.

14. **The difference in passive tension applied to the muscles composing the hamstrings - Comparison among muscles using ultrasound shear wave elastography.** Nakamura M, Hasegawa S, Umegaki H, Nishishita S, Kobayashi T, Fujita K, Tanaka H, Ibuki S, Ichihashi N. *Man Ther.* 2016 Aug;24:1-6.
15. **Effects of two stretching methods on shoulder range of motion and muscle stiffness in baseball players with posterior shoulder tightness: a randomized controlled trial.** Yamauchi T, Hasegawa S, Nakamura M, Nishishita S, Yanase K, Fujita K, Umehara J, Ji X, Ibuki S, Ichihashi N. *J Shoulder Elbow Surg.* 2016 Jul 27. pii: S1058-2746(16)30114-8. doi: 10.1016/j.jse.2016.04.025.
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17. **Quantifying passive muscle stiffness in children with and without cerebral palsy using ultrasound shear wave elastography.** Brandenburg JE, Eby SF, Song P, Kingsley-Berg S, Bamlet W, Sieck GC, An KN. *Dev Med Child Neurol.* 2016 Jul 4. doi: 10.1111/dmcn.13179.
18. **Muscle force loss and soreness subsequent to maximal eccentric contractions depend on the amount of fascicle strain in vivo.** Guilhem G, Doguet V, Hauraix H, Lacourpaille L, Jubeau M, Nordez A, Dorel S. *Acta Physiol (Oxf).* 2016 Jun;217(2):152-63.
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21. **Quantitative ultrasound mapping of regional variations in shear wave speeds of the aging Achilles tendon.** Slane LC, Martin J, DeWall R, Thelen D, Lee K. *Eur Radiol.* 2016 May 28.
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23. **Muscle-specific acute changes in passive stiffness of human triceps surae after stretching.** Hirata K, Miyamoto-Mikami E, Kanehisa H, Miyamoto N. *Eur J Appl Physiol.* 2016 May;116(5):911-8.
24. **Increased Upper Trapezius Muscle Stiffness in Overhead Athletes with Rotator Cuff Tendinopathy.** Leong HT, Hug F, Fu SN. *PLoS One.* 2016 May 9;11(5):e0155187.
25. **Quantified Mechanical Properties of the Deltoid Muscle Using the Shear Wave Elastography: Potential Implications for Reverse Shoulder Arthroplasty.** Hatta T, Giambini H, Sukegawa K, Yamanaka Y, Sperling JW, Steinmann SP, Itoi E, An KN. *PLoS One.* 2016 May 6;11(5):e0155102.
26. **An Investigation of the Immediate Effect of Static Stretching on the Morphology and Stiffness of Achilles Tendon in Dominant and Non-Dominant Legs.** Chiu TC, Ngo HC, Lau LW, Leung KW, Lo MH, Yu HF, Ying M. *PLoS One.* 2016 Apr 27;11(4):e0154443.
27. **Reliability of Abdominal Muscle Stiffness Measured Using Elastography during Trunk Rehabilitation Exercises.** MacDonald D, Wan A, McPhee M, Tucker K, Hug F. *Ultrasound Med Biol.* 2016 Apr;42(4):1018-25.

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32. **Quantification of muscle co-contraction using supersonic shear wave imaging.** Raiteri BJ, Hug F, Cresswell AG, Lichtwark GA. *J Biomech.* 2016 Feb 8;49(3):493-5.
33. **Ultrasound shear wave velocity in skeletal muscle: A reproducibility study.** Dorado Cortez C, Hermitte L, Ramain A, Mesmann C, Lefort T, Pialat JB. *Diagn Interv Imaging.* 2016 Jan;97(1):71-9.
34. **Effects of hamstring stretching on passive muscle stiffness vary between hip flexion and knee extension maneuvers.** Miyamoto N, Hirata K, Kanehisa H. *Scand J Med Sci Sports.* 2015 Dec 16. doi: 10.1111/sms.12620.
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40. **Quantitative assessment of rotator cuff muscle elasticity: Reliability and feasibility of shear wave elastography.** Hatta T, Giambini H, Uehara K, Okamoto S, Chen S, Sperling JW, Itoi E, An KN. *J Biomech.* 2015 Nov 5;48(14):3853-8.
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42. **Use of shear wave ultrasound elastography to quantify muscle properties in cerebral palsy.** Lee SS, Gaebler-Spira D, Zhang LQ, Rymer WZ, Steele KM. *Clin Biomech (Bristol, Avon).* 2015 Oct 18. pii: S0268-0033(15)00267-3. doi: 10.1016/j.clinbiomech.2015.10.006.

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48. **Reliable protocol for shear wave elastography of lower limb muscles at rest and during passive stretching.** Dubois G, Kheireddine W, Vergari C, Bonneau D, Thoreux P, Rouch P, Tanter M, Gennisson JL, Skalli W. *Ultrasound Med Biol.* 2015 Sep;41(9):2284-91.
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