

ShearWave™ Elastography for Breast Imaging

Peer-Reviewed Articles

1. **Combination of shear wave elastography and Ki-67 index as a novel predictive modality for the pathological response to neoadjuvant chemotherapy in patients with invasive breast cancer.** Ma Y, Zhang S, Zang L, Li J, Li J, Kang Y, Ren W. *Eur J Cancer*. 2016 Dec;69:86-101.
2. **Comparison of strain and shear-wave ultrasonic elastography in predicting the pathological response to neoadjuvant chemotherapy in breast cancers.** Ma Y, Zhang S, Li J, Li J, Kang Y, Ren W. *Eur Radiol*. 2016 Oct 17.
3. **Quantitative evaluation of peripheral tissue elasticity for ultrasound-detected breast lesions.** Xiao Y, Yu Y, Niu L, Qian M, Deng Z, Qiu W, Zheng H. *Clin Radiol*. 2016 Sep;71(9):896-904.
4. **Early Evaluation of Relative Changes in Tumor Stiffness by Shear Wave Elastography Predicts the Response to Neoadjuvant Chemotherapy in Patients With Breast Cancer.** Jing H, Cheng W, Li ZY, Ying L, Wang QC, Wu T, Tian JW. *J Ultrasound Med*. 2016 Aug;35(8):1619-27.
5. **Stiffness at shear-wave elastography and patient presentation predicts upgrade at surgery following an ultrasound-guided core biopsy diagnosis of ductal carcinoma in situ.** Evans A, Purdie CA, Jordan L, Macaskill EJ, Flynn J, Vinnicombe S. *Clin Radiol*. 2016 Aug 5. pii: S0009-9260(16)30267-7. doi: 10.1016/j.crad.2016.07.004.
6. **Sonoelastography in the evaluation of capsule formation after breast augmentation - preliminary results from a follow-up study.** Paczkowska K, Rzymiski P, Kubasik M, Opala T. *Arch Med Sci*. 2016 Aug 1;12(4):793-8.
7. **Shear-wave elastography and greyscale assessment of palpable probably benign masses: is biopsy always required?** Giannotti E, Vinnicombe S, Thomson K, McLean D, Purdie C, Jordan L, Evans A. *Br J Radiol*. 2016 Jun;89(1062):20150865.
8. **Lymphangiogenesis in Breast Cancer Correlates with Matrix Stiffness on Shear-Wave Elastography.** Cha YJ, Youk JH, Kim BG, Jung WH, Cho NH. *Yonsei Med J*. 2016 May;57(3):599-605.
9. **Shear wave elastography of breast cancer: Sensitivity according to histological type in a large cohort.** Evans A, Sim YT, Thomson K, Jordan L, Purdie C, Vinnicombe SJ. *Breast*. 2016 Apr;26:115-8.
10. **Breast Lesions: Quantitative Diagnosis Using Ultrasound Shear Wave Elastography-A Systematic Review and Meta-Analysis.** Liu B, Zheng Y, Huang G, Lin M, Shan Q, Lu Y, Tian W, Xie X. *Ultrasound Med Biol*. 2016 Apr;42(4):835-47.
11. **Supersonic Shear Wave Elastography of Response to Anti-cancer Therapy in a Xenograft Tumor Model.** Chamming's F, Le-Frère-Belda MA, Latorre-Ossa H, Fitoussi V, Redheuil A, Assayag F, Pidial L, Gennisson JL, Tanter M, Cuénod CA, Fournier LS. *Ultrasound Med Biol*. 2016 Apr;42(4):924-30.
12. **Prediction of invasive breast cancer using shear-wave elastography in patients with biopsy-confirmed ductal carcinoma in situ.** Bae JS, Chang JM, Lee SH, Shin SU, Moon WK. *Eur Radiol*. 2016 Apr 16.
13. **Elastographic features of triple negative breast cancers.** Džoić Dominković M, Ivanac G, Kelava T, Brkljačić B. *Eur Radiol*. 2016 Apr;26(4):1090-7.

14. **Shearwave Elastography Increases Diagnostic Accuracy in Characterization of Breast Lesions.** Ng WL, Rahmat K, Fadzli F, Rozalli FI, Mohd-Shah MN, Chandran PA, Westerhout CJ, Vijayanathan A, Abdul Aziz YF. *Medicine (Baltimore)*. 2016 Mar;95(12):e3146.
15. **Clinical application of a color map pattern on shear-wave elastography for invasive breast cancer.** Lee S, Jung Y, Bae Y. *Surg Oncol*. 2016 Mar;25(1):44-8.
16. **Ex Vivo Assessment of Sentinel Lymph Nodes in Breast Cancer Using Shear Wave Elastography.** Kilic F, Velidedeoglu M, Ozturk T, Kandemirli SG, Dikici AS, Er ME, Aydogan F, Kantarci F, Yilmaz MH. *J Ultrasound Med*. 2016 Feb;35(2):271-7.
17. **Additional diagnostic value of shear-wave elastography and color Doppler US for evaluation of breast non-mass lesions detected at B-mode US.** Choi JS, Han BK, Ko EY, Ko ES, Shin JH, Kim GR. *Eur Radiol*. 2016 Jan 19.
18. **Anisotropy of Solid Breast Lesions in 2D Shear Wave Elastography is an Indicator of Malignancy.** Skerl K, Vinnicombe S, Thomson K, McLean D, Giannotti E, Evans A. *Acad Radiol*. 2016 Jan;23(1):53-61.
19. **Factors influencing the stiffness of fibroadenomas at shear wave elastography.** Elseedawy M, Whelehan P, Vinnicombe S, Thomson K, Evans A. *Clin Radiol*. 2016 Jan;71(1):92-5.
20. **In Vivo Quantification of the Nonlinear Shear Modulus in Breast Lesions: Feasibility Study.** Bernal M, Chamming F, Couade M, Bercoff J, Tanter M, Gennisson JL. *IEEE Trans Ultrason Ferroelectr Freq Control*. 2016 Jan;63(1):101-109.
21. **Determination of the Elasticity of Breast Tissue during the Menstrual Cycle Using Real-Time Shear Wave Elastography.** Li X, Wang JN, Fan ZY, Kang S, Liu YJ, Zhang YX, Wang XM. *Ultrasound Med Biol*. 2015 Dec;41(12):3140-7.
22. **Lesion stiffness measured by shear-wave elastography: Preoperative predictor of the histologic underestimation of US-guided core needle breast biopsy.** Park AY, Son EJ, Kim JA, Han K, Youk JH. *Eur J Radiol*. 2015 Dec;84(12):2509-14.
23. **Influence of region of interest size and ultrasound lesion size on the performance of 2D shear wave elastography (SWE) in solid breast masses.** Skerl K, Vinnicombe S, Giannotti E, Thomson K, Evans A. *Clin Radiol*. 2015 Dec;70(12):1421-7.
24. **Shear-Wave Elastography for the Detection of Residual Breast Cancer After Neoadjuvant Chemotherapy.** Lee SH, Chang JM, Han W, Moon HG, Koo HR, Gweon HM, Kim WH, Noh DY, Moon AW. *Ann Surg Oncol*. 2015 Dec;22 Suppl 3:376-84.
25. **Shear Wave Elastography: Is It a Valuable Additive Method to Conventional Ultrasound for the Diagnosis of Small (≤ 2 cm) Breast Cancer?** Kim SJ, Ko KH, Jung HK, Kim H. *Medicine (Baltimore)*. 2015 Oct;94(42):e1540.
26. **Shear Wave Elastography (SWE): An Analysis of Breast Lesion Characterization in 83 Breast Lesions.** Feldmann A, Langlois C, Dewailly M, Martinez EF, Boulanger L, Kerdraon O, Faye N. *Ultrasound Med Biol*. 2015 Oct;41(10):2594-604.
27. **False positive or negative results of shear-wave elastography in differentiating benign from malignant breast masses: analysis of clinical and ultrasonographic characteristics.** Kim MY, Choi N, Yang JH, Yoo YB, Park KS. *Acta Radiol*. 2015 Oct;56(10):1155-62.
28. **Diagnostic performance and color overlay pattern in shear wave elastography (SWE) for palpable breast mass.** Park J, Woo OH, Shin HS, Cho KR, Seo BK, Kang EY. *Eur J Radiol*. 2015 Oct;84(10):1943-8.

29. **Quantitative Lesion-to-Fat Elasticity Ratio Measured by Shear-Wave Elastography for Breast Mass: Which Area Should Be Selected as the Fat Reference?** Youk JH, Son EJ, Gweon HM, Han KH, Kim JA. PLoS One. 2015 Sep 14;10(9):e0138074.
30. **Quantitative Maximum Shear-Wave Stiffness of Breast Masses as a Predictor of Histopathologic Severity.** Berg WA, Mendelson EB, Cosgrove DO, Doré CJ, Gay J, Henry JP, Cohen-Bacrie C. AJR Am J Roentgenol. 2015 Aug;205(2):448-55.
31. **Role of shear-wave elastography (SWE) in complex cystic and solid breast lesions in comparison with conventional ultrasound.** Lee BE, Chung J, Cha ES, Lee JE, Kim JH. Eur J Radiol. 2015 Jul;84(7):1236-41.
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34. **Value of shear-wave elastography in the diagnosis of symptomatic invasive lobular breast cancer.** Sim YT, Vinnicombe S, Whelehan P, Thomson K, Evans A. Clin Radiol. 2015 Jun;70(6):604-9.
35. **Can continuous scans in orthogonal planes improve diagnostic performance of shear wave elastography for breast lesions?** Yang P, Peng Y, Zhao H, Luo H, Jin Y, He Y. Technol Health Care. 2015 Jun 17;23 Suppl 2:S293-300.
36. **Performance of Ultrasonic Shear Wave Elastography in Assessing Benign and Malignant Breast Lesions.** Xian-Quan S, Jun-Lai LI, Qiu-Yang LI, Yan H, Wen-Bo W, Jie T. Zhongguo Yi Xue Ke Xue Yuan Xue Bao. 2015 Jun;37(3):294-9.
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38. **A set of shear wave elastography quantitative parameters combined with ultrasound BI-RADS to assess benign and malignant breast lesions.** Shi XQ, Li JL, Wan WB, Huang Y. Ultrasound Med Biol. 2015 Apr;41(4):960-6.
39. **Feasibility of Imaging and Treatment Monitoring of Breast Lesions with Three-Dimensional Shear Wave Elastography.** Athanasiou A, Latorre-Ossa H, Criton A, Tardivon A, Gennisson JL, Tanter M. Ultraschall Med. 2015 Mar 5.
40. **Quantitative shear wave elastography: correlation with prognostic histologic features and immunohistochemical biomarkers of breast cancer.** Au FW, Ghai S, Lu FI, Moshonov H, Crystal P. Acad Radiol. 2015 Mar;22(3):269-77.
41. **Relationship between elasticity and collagen fiber content in breast disease: a preliminary report.** Wang ZL, Sun L, Li Y, Li N. Ultrasonics. 2015 Mar;57:44-9.
42. **Role of shear wave sonoelastography in differentiation between focal breast lesions.** Dobruch-Sobczak K, Nowicki A. Ultrasound Med Biol. 2015 Feb;41(2):366-74.
43. **Quantification of elastic heterogeneity using contourlet-based texture analysis in shear-wave elastography for breast tumor classification.** Zhang Q, Xiao Y, Chen S, Wang C, Zheng H. Ultrasound Med Biol. 2015 Feb;41(2):588-600.
44. **Can breast elastography change our strategies? Technology, impact and limitations.** Balu-Maestro C, Caramella T. Gynecol Obstet Fertil. 2015 Jan;43(1):71-7.

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61. **Does shear wave ultrasound independently predict axillary lymph node metastasis in women with invasive breast cancer?** Evans A, Rauchhaus P, Whelehan P, Thomson K, Purdie CA, Jordan LB, Michie CO, Thompson A, Vinnicombe S. *Breast Cancer Res Treat.* 2014 Jan;143(1):153-7.
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83. **Differentiating benign from malignant solid breast masses: value of shear wave elastography according to lesion stiffness combined with greyscale ultrasound according to BI-RADS classification.** Evans A, Whelehan P, Thomson K, Brauer K, Jordan L, Purdie C, McLean D, Baker L, Vinnicombe S, Thompson A. *Br J Cancer*. 2012 Jul 10;107(2):224-9.
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