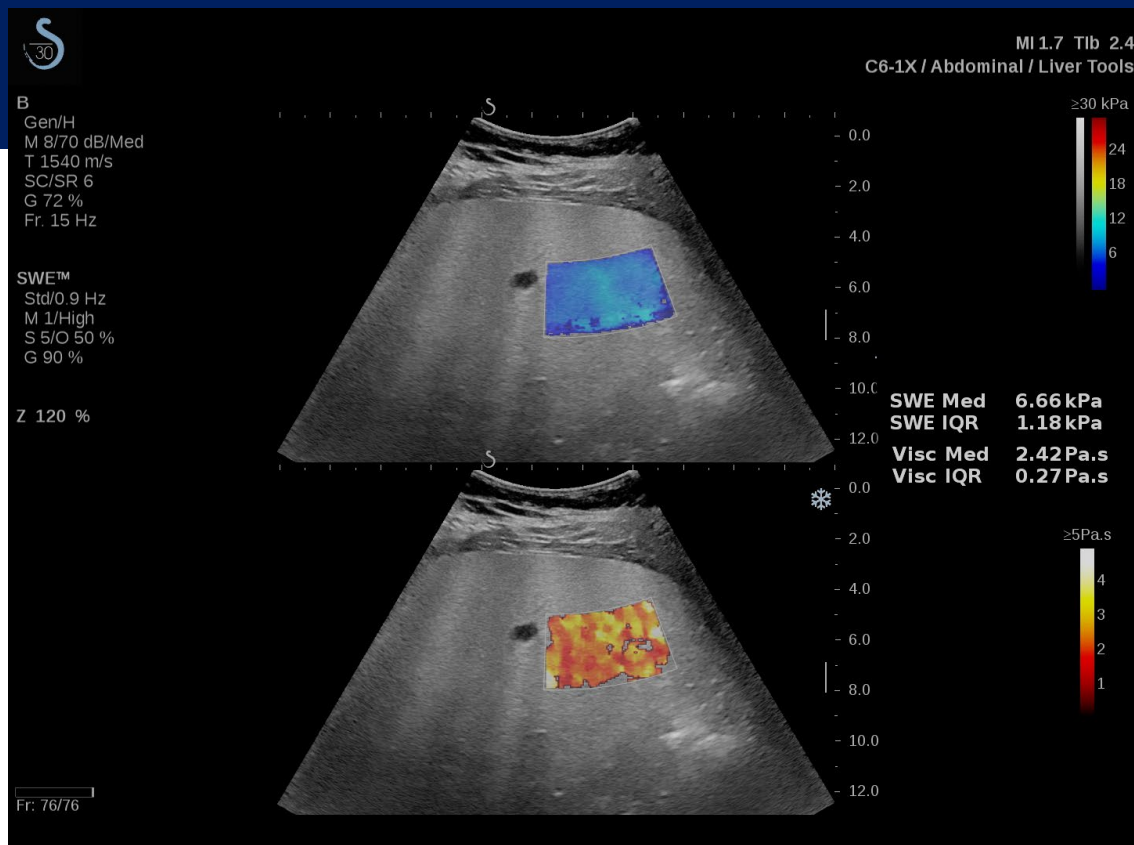


HOLOGIC[®]

PEER-REVIEWED ARTICLES

SHEARWAVE[™] ELASTOGRAPHY FOR LIVER AND ABDOMINAL IMAGING



1. Ozturk A, Mohammadi R, Pierce TT, et al. Diagnostic accuracy of shear wave elastography as a non-invasive biomarker of high-risk non-alcoholic steatohepatitis in patients with non-alcoholic fatty liver disease. *Ultrasound Med Biol.* 2020;46(4):972-980. doi: 10.1016/j.ultrasmedbio.2019.12.020.
2. Gatos I, Drazinos P, Yarmenitis S, et al. Comparison of sound touch elastography, shear wave elastography and vibration-controlled transient elastography in chronic liver disease assessment using liver biopsy as the "reference standard." *Ultrasound Med Biol.* 2020;46(4):959-971. doi: 10.1016/j.ultrasmedbio.2019.12.016.
3. Wang H, Zheng P, Sang L, et al. Does operator experience and the Q-box diameter affect the repeatability of liver stiffness measurements obtained by 2-dimensional shear wave elastography? *J Ultrasound Med.* 2020;39(4):741-747. doi: doi.org/10.1002/jum.15153.
4. Thiele M, Hugger MB, Kim Y, et al. 2D shear wave liver elastography by aixplorer to detect portal hypertension in cirrhosis: an individual patient data meta-analysis. *Liver Int.* 2020;40(6):1435-1446. doi: 10.1111/liv.14439.
5. Wei H, Jiang HY, Li M, et al. Two-dimensional shear wave elastography for significant liver fibrosis in patients with chronic hepatitis B: A systematic review and meta-analysis. *Eur J Radiol.* 2020;124:108839. doi: 10.1016/j.ejrad.2020.108839.
6. Song Y, Dang Y, Wang P, et al. CHD is associated with higher grades of NAFLD predicted by liver stiffness. *J Clin Gastroenterol.* 2020;54(3):271-277. doi: 10.1097/MCG.0000000000001238.
7. Jamialahmadi T, Jangjoo A, Rezvani R, et al. Hepatic function and fibrosis assessment via 2D-shear wave elastography and related biochemical markers pre- and post-gastric bypass surgery. *Obes Surg.* 2020;30(6):2251-2258. doi: 10.1007/s11695-020-04452-0.
8. Wu M, Wu L, Jin J, et al. Liver stiffness measured with two-dimensional shear-wave elastography is predictive of liver-related events in patients with chronic liver disease due to hepatitis B viral infection. *Radiology.* 2020;295(2):353-360. doi: 10.1148/radiol.2020191481.
9. Yang H, Sun Y, Tang Y, et al. Shear-wave elastography of the liver in a healthy pediatric population. *J Clin Ultrasound.* 2020;48(3):139-144. doi: 10.1002/jcu.22794.
10. Yan Y, Xing X, Lu Q, et al. Assessment of biopsy proven liver fibrosis by two-dimensional shear wave elastography in patients with primary biliary cholangitis. *Dig Liver Dis.* 2020;52(5):555-560. doi: 10.1016/j.dld.2020.02.002.
11. Dardanelli EP, Orozco ME, Lostra J, et al. Bidimensional shear-wave elastography for assessing liver fibrosis in children: A proposal of reference values that correlate with the histopathological Knodell-Ishak score. *Pediatr Radiol.* 2020;50(6):817-826. doi: 10.1007/s00247-020-04632-1.
12. Lee S, Kim MJ, Lee MJ, et al. Hepatic subcapsular or capsular flow in biliary atresia: is it useful imaging feature after the Kasai operation? *Eur Radiol.* 2020;30(6):3161-3167. doi: 10.1007/s00330-020-06656-5.
13. Fu J, Wu B, Wu H, et al. Accuracy of real-time shear wave elastography in staging hepatic fibrosis: A meta-analysis. *BMC Med Imaging.* 2020;20(1):16. doi: 10.1186/s12880-020-0414-5.
14. Shao C, Ye J, Li F, et al. Different predictors of steatosis and fibrosis severity among lean, overweight and obese patients with nonalcoholic fatty liver disease. *Dig Liver Dis.* 2019;51(10):1392-1399. doi: 10.1016/j.dld.2019.02.019.
15. Guo H, Liao M, Jin J, et al. How intrahepatic cholestasis affects liver stiffness in patients with chronic hepatitis B: A study of 1197 patients with liver biopsy. *Eur Radiol.* 2020;30(2):1096-1104. doi: 10.1007/s00330-019-06451-x.
16. Delahaye J, Bazeries P, Lannes A, et al. Doppler ultrasonography devices, including elastography, allow for accurate diagnosis of severe liver fibrosis. *Eur J Radiol.* 2018;108:133-139. doi: 10.1016/j.ejrad.2018.09.019.
17. Bayramov N, Yilmaz S, Salahova S, et al. Liver graft and spleen elastography after living liver transplantation: Our first results. *Transplant Proc.* 2019;51(7):2446-2450. doi: 10.1016/j.transproceed.2019.01.184.
18. Johari MI, Yusoff K, Haron J, et al. A randomised controlled trial on the effectiveness and adherence of modified alternate-day calorie restriction in improving activity of non-alcoholic fatty liver disease. *Sci Rep.* 2019;9(1):11232. doi: 10.1038/s41598-019-47763-8.
19. Jamialahmadi T, Nematy M, Jangjoo A, et al. Measurement of liver stiffness with 2D-shear wave elastography (2D-SWE) in bariatric surgery candidates reveals acceptable diagnostic yield compared to liver biopsy. *Obes Surg.* 2019;29(8):2585-2592. doi: 10.1007/s11695-019-03889-2.
20. Calvopina DA, Noble C, Weis A, et al. Supersonic shear-wave elastography and APRI for the detection and staging of liver disease in pediatric cystic fibrosis. *J Cyst Fibros.* 2019;S1569-1993(19)30820-3. doi: 10.1016/j.jcf.2019.06.017.

21. Park HS, Choe WH, Han HS, et al. Assessing significant fibrosis using imaging-based elastography in chronic hepatitis B patients: Pilot study. *World J Gastroenterol.* 2019;25(25):3256-3267. doi: 10.3748/wjg.v25.i25.3256.
22. Yu JB, Xiong H, Yuan XC, et al. Liver stiffness detected by shear wave elastography predicts esophageal varices in cirrhotic patients. *Ultrasound Q.* 2019; 10.1097/RUQ.0000000000000466. doi: 10.1097/RUQ.0000000000000466.
23. Kim DW, Suh CH, Kim KW, et al. Technical performance of two-dimensional shear wave elastography for measuring liver stiffness: A systematic review and meta-analysis. *Korean J Radiol.* 2019;20(6):880-893. doi: 10.3348/kjr.2018.0812.
24. Iijima H, Tada T, Kumada T, et al. Comparison of liver stiffness assessment by transient elastography and shear wave elastography using six ultrasound devices. *Hepatol Res.* 2019;49(6):676-686. doi: 10.1111/hepr.13319.
25. Zhu Y, Ding H, Fu T, et al. Portal hypertension in hepatitis B-related cirrhosis: Diagnostic accuracy of liver and spleen stiffness by 2-D shear-wave elastography. *Hepatol Res.* 2019;49(5):540-549. doi: 10.1111/hepr.13306.
26. Kim DW, Park C, Yoon HM, et al. Technical performance of shear wave elastography for measuring liver stiffness in pediatric and adolescent patients: A systematic review and meta-analysis. *Eur Radiol.* 2019;29(5):2560-2572. doi: 10.1007/s00330-018-5900-6.
27. Liu J, Li Y, Yang X, et al. Comparison of two-dimensional shear wave elastography with nine serum fibrosis indices to assess liver fibrosis in patients with chronic hepatitis B: A prospective cohort study. *Ultraschall Med.* 2019;40(2):237-246. doi: 10.1055/a-0796-6584.
28. Hu X, Huang X, Chen H, et al. Diagnostic effect of shear wave elastography imaging for differentiation of malignant liver lesions: A meta-analysis. *BMC Gastroenterol.* 2019;19(1):60. doi: 10.1186/s12876-019-0976-2.
29. Castera L, Friedrich-Rust M, Loomba R. Noninvasive assessment of liver disease in patients with nonalcoholic fatty liver disease. *Gastroenterology.* 2019;156(5):1264-1281.e4. doi: 10.1053/j.gastro.2018.12.036.
30. Wang Y, Jia L, Wang X, et al. Diagnostic performance of 2-D shear wave elastography for differentiation of hepatoblastoma and hepatic hemangioma in children under 3 years of age. *Ultrasound Med Biol.* 2019;45(6):1397-1406. doi: 10.1016/j.ultrasmedbio.2019.02.007.
31. Gatos I, Tsantis S, Spiliopoulos S, et al. Temporal stability assessment in shear wave elasticity images validated by deep learning neural network for chronic liver disease fibrosis stage assessment. *Med Phys.* 2019;46(5):2298-2309. doi: 10.1002/mp.13521.
32. Byenfeldt M, Elvin A, Fransson P. Influence of probe pressure on ultrasound-based shear wave elastography of the liver using comb-push 2-D technology. *Ultrasound Med Biol.* 2019;45(2):411-428. doi: 10.1016/j.ultrasmedbio.2018.09.023.
33. Paternostro R, Reiberger T, Bucsecs T. Elastography-based screening for esophageal varices in patients with advanced chronic liver disease. *World J Gastroenterol.* 2019;25(3):308-329. doi: 10.3748/wjg.v25.i3.308.
34. Ferraioli G, Wong VW, Castera L, et al. Liver ultrasound elastography: An update to the World Federation for Ultrasound in Medicine and Biology guidelines and recommendations. *Ultrasound Med Biol.* 2018;44(12):2419-2440. doi: 10.1016/j.ultrasmedbio.2018.07.008.
35. Jeong JY, Cho YS, Sohn JH. Role of two-dimensional shear wave elastography in chronic liver diseases: A narrative review. *World J Gastroenterol.* 2018;24(34):3849-3860. doi: 10.3748/wjg.v24.i34.3849.
36. Zhang W, Zhu Y, Zhang C, et al. Diagnostic accuracy of 2-dimensional shear wave elastography for the staging of liver fibrosis: A meta-analysis. *J Ultrasound Med.* 2018;38(3):733-740. doi: 10.1002/jum.14760.
37. Dhyani M, Xiang F, Li Q, et al. Ultrasound shear wave elastography: Variations of liver fibrosis assessment as a function of depth, force and distance from central axis of the transducer with a comparison of different systems. *Ultrasound Med Biol.* 2018;44(11):2209-2222. doi: 10.1016/j.ultrasmedbio.2018.07.003.
38. Zheng W, Zhou ZG, Wong CH, et al. Evaluation of liver parenchyma stiffness in patients with liver tumours: optimal strategy for shear wave elastography. *Eur Radiol.* 2019;29(3):1479-1488. doi: 10.1007/s00330-018-5676-8.
39. Gao Y, Zheng J, Liang P, et al. Liver fibrosis with two-dimensional US shear-wave elastography in participants with chronic hepatitis B: A prospective multicenter study. *Radiology.* 2018;289(2):407-415. doi: 10.1148/radiol.2018172479.
40. Zeng J, Zheng J, Jin JY, et al. Shear wave elastography for liver fibrosis in chronic hepatitis B: Adapting the cut-offs to alanine aminotransferase levels improves accuracy. *Eur Radiol.* 2019;29(2):857-865. doi: 10.1007/s00330-018-5621-x.

41. Rattansingh A, Amooshahi H, Menezes RJ, et al. Utility of shear-wave elastography to differentiate low from advanced degrees of liver fibrosis in patients with hepatitis C virus infection of native and transplant livers. *J Clin Ultrasound*. 2018;46(5):311-318. doi: 10.1002/jcu.22583.
42. Wang HW, Shi HN, Cheng J, et al. Real-time shear wave elastography (SWE) assessment of short- and long-term treatment outcome in Budd-Chiari syndrome: A pilot study. *PLoS One*. 2018;13(5):e0197550. doi: 10.1371/journal.pone.0197550.
43. Wang K, Lu X, Zhou H, et al. Deep learning radiomics of shear wave elastography significantly improved diagnostic performance for assessing liver fibrosis in chronic hepatitis B: A prospective multicentre study. *Gut*. 2019;68(4):729-741. doi: 10.1136/gutjnl-2018-316204.
44. Li C, Dhyani M, Bhan AK, et al. Diagnostic performance of shear wave elastography in patients with autoimmune liver disease. *J Ultrasound Med*. 2019;38(1):103-111. doi: 10.1002/jum.14668.
45. Kim YY, Kim MJ, Shin HJ, et al. Interconversion of elasticity measurements between two-dimensional shear wave elastography and transient elastography. *Med Ultrason*. 2018;20(2):127-133. doi: 10.11152/mu-1307.
46. Suh CH, Kim KW, Park SH, et al. Shear wave elastography as a quantitative biomarker of clinically significant portal hypertension: A systematic review and meta-analysis. *AJR Am J Roentgenol*. 2018;210(5):W185-W195. doi: 10.2214/AJR.17.18367.
47. Hamada K, Saitoh S, Nishino N, et al. Shear wave elastography predicts hepatocellular carcinoma risk in hepatitis C patients after sustained virological response. *PLoS One*. 2018;13(4):e0195173. doi: 10.1371/journal.pone.0195173.
48. Jin JY, Zheng YB, Zheng J, et al. 2D shear wave elastography combined with MELD improved prognostic accuracy in patients with acute-on-chronic hepatitis B liver failure. *Eur Radiol*. 2018;28(10):4465-4474. doi: 10.1007/s00330-018-5336-z.
49. Xie LT, Yan CH, Zhao QY, et al. Quantitative and noninvasive assessment of chronic liver diseases using two-dimensional shear wave elastography. *World J Gastroenterol*. 2018;24(9):957-970. doi: 10.3748/wjg.v24.i9.957.
50. Lee DH, Lee JM, Yoon JH, et al. Liver stiffness measured by two-dimensional shear-wave elastography: Prognostic value after radiofrequency ablation for hepatocellular carcinoma. *Liver Cancer*. 2018;7(1):65-75. doi: 10.1159/000484445.
51. Wang J, Wang Q, Yu G, et al. Correlation between liver stiffness measured by shear wave elastography and Child-Pugh classification. *J Ultrasound Med*. 2018;37(9):2191-2199. doi: 10.1002/jum.14569.
52. Praktijnjo M, Krabbe V, Pohlmann A, et al. Evolution of nodule stiffness might predict response to local ablative therapy: A series of patients with hepatocellular carcinoma. *PLoS One*. 2018;13(2):e0192897. doi: 10.1371/journal.pone.0192897.
53. Shin HJ, Kim MJ, Yoon CS, et al. Motion effects on the measurement of stiffness on ultrasound shear wave elastography: a moving liver fibrosis phantom study. *Med Ultrason*. 2018;1(1):14-20. doi: 10.11152/mu-1138.
54. Webb M, Zimran A, Dinur T, et al. Are transient and shear wave elastography useful tools in Gaucher disease? *Blood Cells Mol Dis*. 2018;68:143-147. doi: 10.1016/j.bcmd.2016.12.010.
55. Elkrief L, Ronot M, Andrade F, et al. Non-invasive evaluation of portal hypertension using shear-wave elastography: analysis of two algorithms combining liver and spleen stiffness in 191 patients with cirrhosis. *Aliment Pharmacol Ther*. 2018;47(5):621-630. doi: 10.1111/apt.14488.
56. Herrmann E, de Lédinghen V, Cassinotto C, et al. Assessment of biopsy-proven liver fibrosis by 2D-shear wave elastography: An individual patient data based meta-analysis. *Hepatology*. 2018;67(1):260-272. doi: 10.1002/hep.29179.
57. Zeng J, Huang Z, Jin J, et al. Diagnostic accuracy of 2-D shear wave elastography for the non-invasive staging of liver fibrosis in patients with elevated alanine aminotransferase levels. *Ultrasound Med Biol*. 2018;44(1):85-93. doi: 10.1016/j.ultrasmedbio.2017.09.011.
58. Piscaglia F, Salvatore V, Mulazzani L, et al. Differences in liver stiffness values obtained with new ultrasound elastography machines and Fibroscan: A comparative study. *Dig Liver Dis*. 2017;49(7):802-808. doi: 10.1016/j.dld.2017.03.001.
59. Dietrich CF, Bamber J, Berzigotti A, et al. EFSUMB guidelines and recommendations on the clinical use of liver ultrasound elastography, update 2017. *Ultraschall Med*. 2017;38(4):377-394. doi: 10.1055/s-0043-103955.
60. Takeuchi H, Sugimoto K, Oshiro H, et al. Liver fibrosis: Noninvasive assessment using supersonic shear imaging and FIB4 index in patients with non-alcoholic fatty liver disease. *J Med Ultrason*. 2018;45(2):243-249. doi: 10.1007/s10396-017-0840-3.
61. Yoon HM, Cho YA, Kim JR, et al. Real-time two-dimensional shear-wave elastography for liver stiffness in children: Interobserver variation and effect of breathing technique. *Eur J Radiol*. 2017;97:53-58. doi: 10.1016/j.ejrad.2017.10.011.

62. Jansen C, Möller P, Meyer C, et al. Increase in liver stiffness after transjugular intrahepatic portosystemic shunt is associated with inflammation and predicts mortality. *Hepatology*. 2018;67(4):1472-1484. doi: 10.1002/hep.29612.
63. Kim JR, Suh CH, Yoon HM, et al. The diagnostic performance of shear-wave elastography for liver fibrosis in children and adolescents: A systematic review and diagnostic meta-analysis. *Eur Radiol*. 2018;28(3):1175-1186. doi: 10.1007/s00330-017-5078-3.
64. Grgurevic I, Bokun T, Salkic NN, et al. Liver elastography malignancy prediction score for noninvasive characterization of focal liver lesions. *Liver Int*. 2018;38(6):1055-1063. doi: 10.1111/liv.13611.
65. Liu JH, Zou Y, Chang W, et al. Assessment of liver fibrosis using real-time shear-wave elastography for patients with hepatitis B E antigen-negative chronic hepatitis B and alanine transaminase <2 times the upper limit of normal. *Rev Invest Clin*. 2017;69(5):254-261. doi: 10.24875/ric.17002215.
66. Gerber L, Fitting D, Srikantharajah K, et al. Evaluation of 2D- shear wave elastography for characterization of focal liver lesions. *J Gastrointest Liver Dis*. 2017;26(3):283-290. doi: 10.15403/jgld.2014.1121.263.dsh.
67. Hong EK, Choi YH, Cheon JE, et al. Accurate measurements of liver stiffness using shear wave elastography in children and young adults and the role of the stability index. *Ultrasonography*. 2017;37(3):226-232. doi: 10.14366/usg.17025.
68. Mulazzani L, Salvatore V, Ravaioli F, et al. Point shear wave ultrasound elastography with Esaote compared to real-time 2D shear wave elastography with supersonic imagine for the quantification of liver stiffness. *J Ultrasound*. 2017;20(3):213-225. doi: 10.1007/s40477-017-0260-7.
69. Huang Z, Zheng W, Zhang YJ, et al. Assessing hepatic fibrosis using 2-D shear wave elastography in patients with liver tumors: A prospective single-center study. *Ultrasound Med Biol*. 2017;43(11):2522-2529. doi: 10.1016/j.ultrasmedbio.2017.07.003.
70. Sariyeva E, Salahova S, Bayramov N. Importance of shear wave elastography of livers in practically healthy pregnant women. *Georgian Med News*. 2017;(268-269):43-47.
71. Wong RJ, Le A, Nguyen MT, et al. Significant hepatic fibrosis among treatment-naive chronic hepatitis B virus with increased hepatitis B virus DNA and normal alanine aminotransferase. *Clin Gastroenterol Hepatol*. 2018;16(1):146-148. doi: 10.1016/j.cgh.2017.07.012.
72. Paul SB, Das P, Mahanta M, et al. Assessment of liver fibrosis in chronic hepatitis: comparison of shear wave elastography and transient elastography. *Abdom Radiol*. 2017;42(12):2864-2873. doi: 10.1007/s00261-017-1213-5.
73. Zeng J, Zheng J, Huang Z, et al. Comparison of 2-D shear wave elastography and transient elastography for assessing liver fibrosis in chronic hepatitis B. *Ultrasound Med Biol*. 2017;43(8):1563-1570. doi: 10.1016/j.ultrasmedbio.2017.03.014.
74. Zhuang Y, Ding H, Zhang Y, et al. Two-dimensional shear-wave elastography performance in the noninvasive evaluation of liver fibrosis in patients with chronic hepatitis B: Comparison with serum fibrosis indexes. *Radiology*. 2017;283(3):873-882. doi: 10.1148/radiol.2016160131.
75. Gatos I, Tsantis S, Spiliopoulos S, et al. A machine-learning algorithm toward color analysis for chronic liver disease classification, employing ultrasound shear wave elastography. *Ultrasound Med Biol*. 2017;43(9):1797-1810. doi: 10.1016/j.ultrasmedbio.2017.05.002.
76. Yoon HM, Kim SY, Kim KM, et al. Liver stiffness measured by shear-wave elastography for evaluating intrahepatic portal hypertension in children. *J Pediatr Gastroenterol Nutr*. 2017;64(6):892-897. doi: 10.1097/MPG.0000000000001517.
77. Dhyani M, Grajo JR, Bhan AK, et al. Validation of shear wave elastography cutoff values on the supersonic aixplorer for practical clinical use in liver fibrosis staging. *Ultrasound Med Biol*. 2017;43(6):1125-1133. doi: 10.1016/j.ultrasmedbio.2017.01.022.
78. Shen Y, Zhou C, Zhu G, et al. Liver stiffness assessed by shear wave elastography predicts postoperative liver failure in patients with hepatocellular carcinoma. *J Gastrointest Surg*. 2017;21(9):1471-1479. doi: 10.1007/s11605-017-3443-9.
79. Yoon K, Jeong WK, Kim Y, et al. 2-Dimensional shear wave elastography: Interobserver agreement and factors related to interobserver discrepancy. *PLoS One*. 2017;12(4):e0175747. doi: 10.1371/journal.pone.0175747.
80. Stefanescu H, Allegretti G, Salvatore V, et al. Bidimensional shear wave ultrasound elastography with supersonic imaging to predict presence of oesophageal varices in cirrhosis. *Liver Int*. 2017;37(9):1405. doi: 10.1111/liv.13418.
81. Tada T, Kumada T, Toyoda H, et al. Improvement of liver stiffness in patients with hepatitis C virus infection who received direct-acting antiviral therapy and achieved sustained virological response. *J Gastroenterol Hepatol*. 2017;32(12):1982-1988. doi: 10.1111/jgh.13788.

82. Madhusudhan KS, Sharma R, Kilambi R, et al. 2D shear wave elastography of liver in patients with primary extrahepatic portal vein obstruction. *J Clin Exp Hepatol*. 2017;7(1):23-27. doi: 10.1016/j.jceh.2016.12.001.
83. Zhou LY, Jiang H, Shan QY, et al. Liver stiffness measurements with supersonic shear wave elastography in the diagnosis of biliary atresia: A comparative study with grey-scale US. *Eur Radiol*. 2017;27(8):3474-3484. doi: 10.1007/s00330-016-4710-y.
84. Shin HJ, Kim MJ, Kim HY, et al. Optimal acquisition number for hepatic shear wave velocity measurements in children. *PLoS One*. 2016;11(12):e0168758. doi: 10.1371/journal.pone.0168758.
85. Garcovich M, Veraldi S, Di Stasio E, et al. Liver stiffness in pediatric patients with fatty liver disease: Diagnostic accuracy and reproducibility of shear-wave elastography. *Radiology*. 2017;283(3):820-827. doi: 10.1148/radiol.2016161002.
86. Lupşor-Platon M, Badea R, Gersak M, et al. Noninvasive assessment of liver diseases using 2D shear wave elastography. *J Gastrointest Liver Dis*. 2016;25(4):525-532. doi: 10.15403/jgld.2014.1121.254.lup.
87. Sun LL, Dong G, Wang B, et al. Real-time shear wave elastography and APRI index for evaluating autoimmune hepatitis fibrosis. *J Biol Regul Homeost Agents*. 2016;30(4):1019-1021.
88. Poynard T, Pham T, Perazzo H, et al. Real-time shear wave versus transient elastography for predicting fibrosis: Applicability, and impact of inflammation and steatosis. A non-invasive comparison. *PLoS One*. 2016;11(10):e0163276. doi: 10.1371/journal.pone.0163276.
89. Sun LL, Chang W, Jiao LQ, et al. Hepatic fibrosis and supersonic shear imaging in patients with different etiological chronic hepatic diseases. *J Biol Regul Homeost Agents*. 2016;30(3):761-765.
90. Jansen C, Bogs C, Verlinden W, et al. Shear-wave elastography of the liver and spleen identifies clinically significant portal hypertension: A prospective multi-center study. *Liver Int*. 2017;37(3):396-405. doi: 10.1111/liv.13243.
91. Tian WS, Lin MX, Zhou LY, et al. Maximum value measured by 2D shear wave elastography helps in differentiating malignancy from benign focal liver lesions. *Ultrasound Med Biol*. 2016;42(9):2156-2166. doi: 10.1016/j.ultrasmedbio.2016.05.002.
92. Pellot-Barakat C, Chami L, Correas JM, et al. Does motion affect liver stiffness estimates in shear wave elastography? Phantom and clinical study. *Eur J Radiol*. 2016;85(9):1645-1650. doi: 10.1016/j.ejrad.2016.07.001.
93. Pawluś A, Inglot M, Chabowski M, et al. Shear wave elastography (SWE) of the spleen in patients with hepatitis B and C but without significant liver fibrosis. *Br J Radiol*. 2016;89(1066):20160423. doi: 10.1259/bjr.20160423.
94. Chen S, Liao B, Zhong Z, et al. Supersonic shearwave elastography in the assessment of liver fibrosis for postoperative patients with biliary atresia. *Sci Rep*. 2016;6:31057. doi: 10.1038/srep31057.
95. Wang X, Qian L, Jia L, et al. Utility of shear wave elastography for differentiating biliary atresia from infantile hepatitis syndrome. *J Ultrasound Med*. 2016;35(7):1475-1479. doi: 10.7863/ultra.15.08031.
96. Kim TY, Kim TY, Kim Y, et al. Diagnostic performance of shear wave elastography for predicting esophageal varices in patients with compensated liver cirrhosis. *J Ultrasound Med*. 2016;35(7):1373-1381. doi: 10.7863/ultra.15.07024.
97. Thiele M, Madsen BS, Procopet B, et al. Reliability criteria for liver stiffness measurements with real-time 2D shear wave elastography in different clinical scenarios of chronic liver disease. *Ultraschall Med*. 2016;38(6):648-654. doi: 10.1055/s-0042-108431. 10.1055/s-0042-108431.
98. Jansen C, Bogs C, Verlinden W, et al. Algorithm to rule out clinically significant portal hypertension combining Shear-wave elastography of liver and spleen: a prospective multicentre study. *Gut*. 2016;65(6):1057-1058. doi: 10.1136/gutjnl-2016-311536.
99. Belei O, Sporea I, Gradinaru-Tascau O, et al. Comparison of three ultrasound based elastographic techniques in children and adolescents with chronic diffuse liver diseases. *Med Ultrason*. 2016;18(2):145-150. doi: 10.11152/mu.2013.2066.182.bet.
100. Verlinden W, Bourgeois S, Gigase P, et al. Liver fibrosis evaluation using real-time shear wave elastography in hepatitis C-monoinfected and human immunodeficiency virus/hepatitis C-coinfected patients. *J Ultrasound Med*. 2016;35(6):1299-1308. doi: 10.7863/ultra.15.08066.
101. Varbobitis IC, Siakavellas SI, Koutsounas IS, et al. Reliability and applicability of two-dimensional shear-wave elastography for the evaluation of liver stiffness. *Eur J Gastroenterol Hepatol*. 2016;28(10):1204-1209. doi: 10.1097/MEG.0000000000000686.
102. Wu T, Wang P, Zhang T, et al. Comparison of two-dimensional shear wave elastography and real-time tissue elastography for assessing liver fibrosis in chronic hepatitis B. *Dig Dis*. 2016;34(6):640-649. doi: 10.1159/000448825.

103. Li C, Zhang C, Li J, et al. Diagnostic accuracy of real-time shear wave elastography for staging of liver fibrosis: A meta-analysis. *Med Sci Monit.* 2016;22:1349-1359. doi: 10.12659/MSM.895662.
104. Jansen C, Bogs C, Krag A, et al. Sequential shear-wave elastography of liver and spleen rules out clinically significant portal hypertension in compensated advanced chronic liver disease. *Gut.* 2016;66(3):558-559. doi: 10.1136/gutjnl-2016-311955.
105. Kutty SS, Zhang M, Danford DA, et al. Hepatic stiffness in the bidirectional cavopulmonary circulation: The liver adult-pediatric-congenital-heart-disease dysfunction study group. *J Thorac Cardiovasc Surg.* 2016;151(3):678-684. doi: 10.1016/j.jtcvs.2015.09.079.
106. Gatos I, Tsantis S, Spiliopoulos S, et al. A new computer aided diagnosis system for evaluation of chronic liver disease with ultrasound shear wave elastography imaging. *Med Phys.* 2016;43(3):1428-1436. doi: 10.1118/1.4942383.
107. Shan QY, Liu BX, Tian WS, et al. Elastography of shear wave speed imaging for the evaluation of liver fibrosis: A meta-analysis. *Hepatol Res.* 2016;46(12):1203-1213. doi: 10.1111/hepr.12669.
108. Feng JC, Li J, Wu XW, et al. Diagnostic accuracy of supersonic shear imaging for staging of liver fibrosis: A meta-analysis. *J Ultrasound Med.* 2016;35(2):329-339. doi: 10.7863/ultra.15.03032.
109. Franchi-Abella S, Corno L, Gonzales E, et al. Feasibility and diagnostic accuracy of supersonic shear-wave elastography for the assessment of liver stiffness and liver fibrosis in children: A pilot study of 96 patients. *Radiology.* 2016;278(2):554-562. doi: 10.1148/radiol.2015142815.
110. Piscaglia F, Salvatore V, Mulazzani L, et al. Ultrasound shear wave elastography for liver disease. A critical appraisal of the many actors on the stage. *Ultraschall Med.* 2016;37(1):1-5. doi: 10.1055/s-0035-1567037.
111. Guibal A, Renosi G, Rode A, et al. Shear wave elastography: An accurate technique to stage liver fibrosis in chronic liver diseases. *Diagn Interv Imaging.* 2016;97(1):91-99. doi: 10.1016/j.diii.2015.11.001.
112. Thiele M, Detlefsen S, Sevelsted Møller L, et al. Transient and 2-dimensional shear-wave elastography provide comparable assessment of alcoholic liver fibrosis and cirrhosis. *Gastroenterology.* 2016;150(1):123-133. doi: 10.1053/j.gastro.2015.09.040.
113. Jiang T, Tian G, Zhao Q, et al. Diagnostic accuracy of 2D-shear wave elastography for liver fibrosis severity: A meta-analysis. *PLoS One.* 2016;11(6):e0157219. doi: 10.1371/journal.pone.0157219.
114. Cassinotto C, Boursier J, De Ledingen V, et al. Liver stiffness in nonalcoholic fatty liver disease: A comparison of supersonic shear imaging, FibroScan and ARFI with liver biopsy. *Hepatology.* 2016;63(6):1817-1827. doi: 10.1002/hep.28394.
115. Park HS, Kim YJ, Yu MH, et al. Shear wave elastography of focal liver lesion: Intraobserver reproducibility and elasticity characterization. *Ultrasound Q.* 2015;31(4):262-271. doi: 10.1097/RUQ.0000000000000175.
116. Dhyani M, Gee MS, Misdraji J, et al. Feasibility study for assessing liver fibrosis in paediatric and adolescent patients using real-time shear wave elastography. *J Med Imaging Radiat Oncol.* 2015;59(6):687-694. doi: 10.1111/1754-9485.12388.
117. Kim TY, Jeong WK, Sohn JH, et al. Evaluation of portal hypertension by real-time shear wave elastography in cirrhotic patients. *Liver Int.* 2015;35(11):2416-2424. doi: 10.1111/liv.12846.
118. Brunel T, Guibal A, Boularan C, et al. Focal nodular hyperplasia and hepatocellular adenoma: The value of shear wave elastography for differential diagnosis. *Eur J Radiol.* 2015;84(11):2059-2064. doi: 10.1016/j.ejrad.2015.07.029.
119. Alison M, Biran V, Tanase A, et al. Quantitative shear-wave elastography of the liver in preterm neonates with intra-uterine growth restriction. *PLoS One.* 2015;10(11):e0143220. doi: 10.1371/journal.pone.0143220.
120. Grgurevic I, Puljiz Z, Brnic D, et al. Liver and spleen stiffness and their ratio assessed by real-time two dimensional-shear wave elastography in patients with liver fibrosis and cirrhosis due to chronic viral hepatitis. *Eur Radiol.* 2015;25(11):3214-3221. doi: 10.1007/s00330-015-3728-x.
121. Grgurević I, Bokun T, Mustapić S, et al. Real-time two-dimensional shear wave ultrasound elastography of the liver is a reliable predictor of clinical outcomes and the presence of esophageal varices in patients with compensated liver cirrhosis. *Croat Med J.* 2015;56(5):470-481. doi: 10.3325/cmj.2015.56.470.
122. Tada T, Kumada T, Toyoda H, et al. Utility of real-time shear wave elastography for assessing liver fibrosis in patients with chronic hepatitis C infection without cirrhosis: Comparison of liver fibrosis indices. *Hepatol Res.* 2015;45(10):E122-129. doi: 10.1111/hepr.12476.
123. Gerber L, Kasper D, Fitting D, et al. Assessment of liver fibrosis with 2-D shear wave elastography in comparison to transient elastography and acoustic radiation force impulse imaging in patients with chronic liver disease. *Ultrasound Med Biol.* 2015;41(9):2350-2359. doi: 10.1016/j.ultrasmedbio.2015.04.014.

124. Bota S, Paternostro R, Etschmaier A, et al. Performance of 2-D shear wave elastography in liver fibrosis assessment compared with serologic tests and transient elastography in clinical routine. *Ultrasound Med Biol*. 2015;41(9):2340-2349. doi: 10.1016/j.ultrasmedbio.2015.04.013.
125. Webb M, Shibolet O, Halpern Z, et al. Assessment of liver and spleen stiffness in patients with myelofibrosis using FibroScan and shear wave elastography. *Ultrasound Q*. 2015;31(3):166-169. doi: 10.1097/RUQ.0000000000000139.
126. Yoneda M, Thomas E, Sclair SN, et al. Supersonic shear imaging and transient elastography with the XL probe accurately detect fibrosis in overweight or obese patients with chronic liver disease. *Clin Gastroenterol Hepatol*. 2015;13(8):1502-1509.e5. doi: 10.1016/j.cgh.2015.03.014.
127. Cassinotto C, Charrie A, Mouries A, et al. Liver and spleen elastography using supersonic shear imaging for the non-invasive diagnosis of cirrhosis severity and oesophageal varices. *Dig Liver Dis*. 2015;47(8):695-701. doi: 10.1016/j.dld.2015.04.008.
128. Bas A, Samanci C, Gulsen F, et al. Evaluation of liver stiffness after radioembolization by Real-Time ShearWave™ Elastography: Preliminary study. *Cardiovasc Intervent Radiol*. 2015;38(4):957-963. doi: 10.1007/s00270-014-1021-z.
129. Kim HJ, Lee HK, Cho JH, et al. Quantitative comparison of transient elastography (TE), shear wave elastography (SWE) and liver biopsy results of patients with chronic liver disease. *J Phys Ther Sci*. 2015;27(8):2465-2468. doi: 10.1589/jpts.27.2465.
130. Kasai Y, Moriyasu F, Saito K, et al. Value of shear wave elastography for predicting hepatocellular carcinoma and esophagogastric varices in patients with chronic liver disease. *J Med Ultrason*. 2015;42(3):349-355. doi: 10.1007/s10396-014-0603-3.
131. Imai Y, Taira J, Okada M, et al. The close linkage between the elasticity modulus measured by real-time mapping shear wave elastography and the presence of hepatocellular carcinoma in patients with a sustained virological response to interferon for chronic hepatitis C. *J Med Ultrason*. 2015;42(3):341-347. doi: 10.1007/s10396-014-0604-2.
132. Procopet B, Berzigotti A, Abraldes JG, et al. Real-time shear-wave elastography: applicability, reliability and accuracy for clinically significant portal hypertension. *J Hepatol*. 2015;62(5):1068-1075. doi: 10.1016/j.jhep.2014.12.007.
133. Elkrief L, Rautou PE, Ronot M, et al. Prospective comparison of spleen and liver stiffness by using shear-wave and transient elastography for detection of portal hypertension in cirrhosis. *Radiology*. 2015;275(2):589-598. doi: 10.1148/radiol.14141210.
134. Zheng J, Guo H, Zeng J, et al. Two-dimensional shear-wave elastography and conventional US: the optimal evaluation of liver fibrosis and cirrhosis. *Radiology*. 2015;275(1):290-300. doi: 10.1148/radiol.14140828.
135. Samir AE, Dhyani M, Vij A, et al. Shear-wave elastography for the estimation of liver fibrosis in chronic liver disease: determining accuracy and ideal site for measurement. *Radiology*. 2015;274(3):888-896. doi: 10.1148/radiol.14140839.
136. Zaleska-Dorobisz U, Pawluś A, Kucharska M, et al. SWE elastography in assessment of liver fibrosis. *Postepy Hig Med Dosw (Online)*. 2015;69:221-226. doi: 10.5604/17322693.1140338.
137. Ronot M, Di Renzo S, Gregoli B, et al. Characterization of fortuitously discovered focal liver lesions: additional information provided by shearwave elastography. *Eur Radiol*. 2015;25(2):346-358. doi: 10.1007/s00330-014-3370-z.
138. Deffieux T, Gennisson JL, Bousquet L, et al. Investigating liver stiffness and viscosity for fibrosis, steatosis and activity staging using shear wave elastography. *J Hepatol*. 2015;62(2):317-324. doi: 10.1016/j.jhep.2014.09.020.
139. Choi SY, Jeong WK, Kim Y, et al. Shear-wave elastography: A noninvasive tool for monitoring changing hepatic venous pressure gradients in patients with cirrhosis. *Radiology*. 2014;273(3):917-926. doi: 10.1148/radiol.14140008.
140. Huang Z, Zheng J, Zeng J, et al. Normal liver stiffness in healthy adults assessed by real-time shear wave elastography and factors that influence this method. *Ultrasound Med Biol*. 2014;40(11):2549-2555. doi: 10.1016/j.ultrasmedbio.2014.05.008.
141. Jeong JY, Kim TY, Sohn JH, et al. Real time shear wave elastography in chronic liver diseases: accuracy for predicting liver fibrosis, in comparison with serum markers. *World J Gastroenterol*. 2014;20(38):13920-13929. doi: 10.3748/wjg.v20.i38.13920.
142. Cassinotto C, Lapuyade B, Mouries A, et al. Non-invasive assessment of liver fibrosis with impulse elastography: Comparison of supersonic shear imaging with ARFI and FibroScan®. *J Hepatol*. 2014;61(3):550-557. doi: 10.1016/j.jhep.2014.04.044.
143. Beland MD, Brown SF, Machan JT, et al. A pilot study estimating liver fibrosis with ultrasound shear-wave elastography: Does the cause of liver disease or location of measurement affect performance? *AJR Am J Roentgenol*. 2014;203(3):W267-273. doi: 10.2214/AJR.13.11718.

144. Ozmen E, Adaletli I, Kayadibi Y, et al. The impact of shear wave elastography in differentiation of hepatic hemangioma from malignant liver tumors in pediatric population. *Eur J Radiol.* 2014;83(9):1691-1697. doi: 10.1016/j.ejrad.2014.06.002.
145. Zeng J, Liu GJ, Huang ZP, et al. Diagnostic accuracy of two-dimensional shear wave elastography for the non-invasive staging of hepatic fibrosis in chronic hepatitis B: a cohort study with internal validation. *Eur Radiol.* 2014;24(10):2572-2581. doi: 10.1007/s00330-014-3292-9.
146. Huang ZP, Zhang XL, Zeng J, et al. Study of detection times for liver stiffness evaluation by shear wave elastography. *World J Gastroenterol.* 2014;20(28):9578-9584. doi: 10.3748/wjg.v20.i28.9578.
147. Suh CH, Kim SY, Kim KW, et al. Determination of normal hepatic elasticity by using real-time shear-wave elastography. *Radiology.* 2014;271(3):895-900. doi: 10.1148/radiol.14131251.
148. Sporea I, Bota S, Grădinaru-Tașcău O, et al. Which are the cut-off values of 2D-shear wave elastography (2D-SWE) liver stiffness measurements predicting different stages of liver fibrosis, considering transient elastography (TE) as the reference method? *Eur J Radiol.* 2014;83(3):e118-122. doi: 10.1016/j.ejrad.2013.12.011.
149. Yoon JH, Lee JM, Han JK, et al. Shear wave elastography for liver stiffness measurement in clinical sonographic examinations: Evaluation of intraobserver reproducibility, technical failure, and unreliable stiffness measurements. *J Ultrasound Med.* 2014;33(3):437-447. doi: 10.7863/ultra.33.3.437.
150. Wang CZ, Zheng J, Huang ZP, et al. Influence of measurement depth on the stiffness assessment of healthy liver with real-time shear wave elastography. *Ultrasound Med Biol.* 2014;40(3):461-469. doi: 10.1016/j.ultrasmedbio.2013.10.021.
151. Ferraioli G, Parekh P, Levitov AB, et al. Shear wave elastography for evaluation of liver fibrosis. *J Ultrasound Med.* 2014;33(2):197-203. doi: 10.7863/ultra.33.2.197.
152. Cha SW, Jeong WK, Kim Y, et al. Nondiseased liver stiffness measured by shear wave elastography: A pilot study. *J Ultrasound Med.* 2014;33(1):53-60. doi: 10.7863/ultra.33.1.53.
153. Kutty SS, Peng Q, Danford DA, et al. Increased hepatic stiffness as consequence of high hepatic afterload in the Fontan circulation: a vascular doppler and elastography study. *Hepatology.* 2014;59(1):251-260. doi: 10.1002/hep.26631.
154. Sporea I, Grădinaru-Tașcău O, Bota S, et al. How many measurements are needed for liver stiffness assessment by 2D-shear wave elastography (2D-SWE) and which value should be used: the mean or median? *Med Ultrason.* 2013;15(4):268-272. doi: 10.11152/mu.2013.2066.154.isp2.
155. Leung VY, Shen J, Wong VW, et al. Quantitative elastography of liver fibrosis and spleen stiffness in chronic hepatitis B carriers: comparison of shear-wave elastography and transient elastography with liver biopsy correlation. *Radiology.* 2013;269(3):910-918. doi: 10.1148/radiol.13130128.
156. Grădinaru-Tașcău O, Sporea I, Bota S, et al. Does experience play a role in the ability to perform liver stiffness measurements by means of supersonic shear imaging (SSI)? *Med Ultrason.* 2013;15(3):180-183. doi: 10.11152/mu.2013.2066.153.ogt1is2.
157. Yoon JH, Lee JY, Woo HS, et al. Shear wave elastography in the evaluation of rejection or recurrent hepatitis after liver transplantation. *Eur Radiol.* 2013;23(6):1729-1737. doi: 10.1007/s00330-012-2748-z.
158. Hudson JM, Milot L, Parry C, et al. Inter- and intra-operator reliability and repeatability of shear wave elastography in the liver: A study in healthy volunteers. *Ultrasound Med Biol.* 2013;39(6):950-955. doi: 10.1016/j.ultrasmedbio.2012.12.011.
159. Arda K, Ciledag N, Aribas BK, et al. Quantitative assessment of the elasticity values of liver with shear wave ultrasonographic elastography. *Indian J Med Res.* 2013;137(5):911-915.
160. Poynard T, Munteanu M, Luckina E, et al. Liver fibrosis evaluation using real-time shear wave elastography: applicability and diagnostic performance using methods without a gold standard. *J Hepatol.* 2013;58(5):928-935. doi: 10.1016/j.jhep.2012.12.021.
161. Guibal A, Boularan C, Bruce M, et al. Evaluation of shearwave elastography for the characterisation of focal liver lesions on ultrasound. *Eur Radiol.* 2013;23(4):1138-1149. doi: 10.1007/s00330-012-2692-y.
162. Ferraioli G, Tinelli C, Dal Bello B, et al. Accuracy of real-time shear wave elastography for assessing liver fibrosis in chronic hepatitis C: A pilot study. *Hepatology.* 2012;56(6):2125-2133. doi: 10.1002/hep.25936.
163. Ferraioli G, Tinelli C, Zicchetti M, et al. Reproducibility of real-time shear wave elastography in the evaluation of liver elasticity. *Eur J Radiol.* 2012;81(11):3102-3106. doi: 10.1016/j.ejrad.2012.05.030.
164. Wang HK, Lai YC, Tseng HS, et al. Hepatic venous congestion after living donor liver transplantation: Quantitative assessment of liver stiffness using shear wave elastography—a case report. *Transplant Proc.* 2012;44(3):814-816. doi: 10.1016/j.transproceed.2012.01.035.

165. Bavu E, Gennisson JL, Couade M, et al. Noninvasive in vivo liver fibrosis evaluation using supersonic shear imaging: a clinical study on 113 hepatitis C virus patients. *Ultrasound Med Biol.* 2011;37(9):1361-1373. doi: 10.1016/j.ultrasmedbio.2011.05.016.

Abdomen

1. Karagiannakis DS, Voulgaris T, Koureta E, et al. Role of spleen stiffness measurement by 2D-shear wave elastography in ruling out the presence of high-risk varices in cirrhotic patients. *Dig Dis Sci.* 2019;64(9):2653-2660. doi: 10.1007/s10620-019-05616-4.
2. Gibiino G, Garcovich M, Ainora ME, et al. Spleen ultrasound elastography: state of the art and future directions—a systematic review. *Eur Rev Med Pharmacol Sci.* 2019;23(10):4368-4381. doi: 10.26355/eurrev_201905_17944.
3. Cho YS, Lim S, Kim Y, et al. Spleen stiffness measurement using 2-dimensional shear wave elastography: The predictors of measurability and the normal spleen stiffness value. *J Ultrasound Med.* 2019;38(2):423-431. doi: 10.1002/jum.14708.
4. Radulescu D, Peride I, Petcu LC, et al. Supersonic shear wave ultrasonography for assessing tissue stiffness in native kidney. *Ultrasound Med Biol.* 2018;44(12):2556-2568. doi: 10.1016/j.ultrasmedbio.2018.07.001.
5. Mazur R, Celmer M, Silicki J, et al. Clinical applications of spleen ultrasound elastography—a review. *J Ultrason.* 2018;18(72):37-41. doi: 10.15557/JoU.2018.0006.
6. Ma MK, Law HK, Tse KS, et al. Non-invasive assessment of kidney allograft fibrosis with shear wave elastography: A radiological-pathological correlation analysis. *Int J Urol.* 2018;25(5):450-455. doi: 10.1111/iju.13536.
7. Chen LD, Wang W, Xu JB, et al. Assessment of rectal tumors with shear-wave elastography before surgery: Comparison with endorectal US. *Radiology.* 2017;285(1):279-292. doi: 10.1148/radiol.2017162128.
8. Kuwahara T, Hirooka Y, Kawashima H, et al. Usefulness of shear wave elastography as a quantitative diagnosis of chronic pancreatitis. *J Gastroenterol Hepatol.* 2018;33(3):756-761. doi: 10.1111/jgh.13926.
9. Yoo MG, Jung DC, Oh YT, et al. Usefulness of multiparametric ultrasound for evaluating structural abnormality of transplanted kidney: Can we predict histologic abnormality on renal biopsy in advance? *AJR Am J Roentgenol.* 2017;209(3):W139-W144. doi: 10.2214/AJR.16.17397.
10. Liu X, Li N, Xu T, et al. Effect of renal perfusion and structural heterogeneity on shear wave elastography of the kidney: An in vivo and ex vivo study. *BMC Nephrol.* 2017;18(1):265. doi: 10.1186/s12882-017-0679-2.
11. Peng L, Zhong T, Fan Q, et al. Correlation analysis of renal ultrasound elastography and clinical and pathological changes in patients with chronic kidney disease. *Clin Nephrol.* 2017;87(6):293-300. doi: 10.5414/CN108866.
12. Correas JM, Anglicheau D, Gennisson JL, et al. Renal elastography. *Nephrol Ther.* 2016;12(1):S25-34. doi: 10.1016/j.nephro.2016.02.014.
13. Pawluś A, Ingot MS, Szymańska K, et al. Shear wave elastography of the spleen: Evaluation of spleen stiffness in healthy volunteers. *Abdom Radiol.* 2016;18(5):736-741. doi: 10.1016/j.aohp.2019.03.004.
14. Samir AE, Allegretti AS, Zhu Q, et al. Shear wave elastography in chronic kidney disease: A pilot experience in native kidneys. *BMC Nephrol.* 2015;16:119. doi: 10.1186/s12882-015-0120-7.
15. Moon SK, Kim SY, Cho JY, et al. Quantification of kidney fibrosis using ultrasonic shear wave elastography: experimental study with a rabbit model. *J Ultrasound Med.* 2015;34(5):869-877. doi: 10.7863/ultra.34.5.869.
16. Helfenstein C, Gennisson JL, Tanter M, et al. Effects of pressure on the shear modulus, mass and thickness of the perfused porcine kidney. *J Biomech.* 2015;48(1):30-37. doi: 10.1016/j.jbiomech.2014.11.011.
17. Cha SW, Kim IY, Kim YW. Quantitative measurement of elasticity of the appendix using shear wave elastography in patients with suspected acute appendicitis. *PLoS One.* 2014;9(7):e101292. doi: 10.1371/journal.pone.0101292.
18. Słapa RZ, Kasperlik-Załuska AA, Migda B, et al. Shear wave elastography of adrenal masses is feasible and may help to differentiate between solid and cystic lesions—an initial report. *Endokrynol Pol.* 2014;65(2):119-124. doi: 10.5603/EP.2014.0017.

19. Ternifi R, Gennisson JL, Tanter M, et al. Effects of storage temperature on the mechanical properties of porcine kidney estimated using shear wave elastography. *J Mech Behav Biomed Mater.* 2013;28:86-93. doi: 10.1016/j.jmbbm.2013.07.012.
20. Grenier N, Gennisson JL, Cornelis F, et al. Renal ultrasound elastography. *Diagn Interv Imaging.* 2013;94(5):545-550. doi:10.1016/j.diii.2012.02.003.
21. Grenier N, Poulain S, Lepreux S, et al. Quantitative elastography of renal transplants using supersonic shear imaging: A pilot study. *Eur Radiol.* 2012;22(10):2138-2146. doi: 10.1007/s00330-012-2471-9.
22. Gennisson JL, Grenier N, Combe C, et al. Supersonic shear wave elastography of in vivo pig kidney: influence of blood pressure, urinary pressure and tissue anisotropy. *Ultrasound Med Biol.* 2012;38(9):1559-1567. doi: 10.1016/j.ultrasmedbio.2012.04.013.
23. Derieppe M, Delmas Y, Gennisson JL, et al. Detection of intrarenal microstructural changes with supersonic shear wave elastography in rats. *Eur Radiol.* 2012;22(1):243-250. doi: 10.1007/s00330-011-2229-9.
24. Arda K, Ciledag N, Aktas E, et al. Quantitative assessment of normal soft-tissue elasticity using shear-wave ultrasound elastography. *AJR Am J Roentgenol.* 2011;197(3):532-536. doi: 10.2214/AJR.10.5449.

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