

ShearWave™ Elastography in Liver Imaging and Abdominal Applications

Peer Reviewed Articles

Liver

1. **Liver Stiffness in Pediatric Patients with Fatty Liver Disease: Diagnostic Accuracy and Reproducibility of Shear-Wave Elastography.** Garcovich M, Veraldi S, Di Stasio E, Zocco MA, Monti L, Tomà P, Pompili M, Gasbarrini A, Nobili V. *Radiology*. 2016 Dec 13:161002.
2. **Noninvasive Assessment of Liver Diseases using 2D Shear Wave Elastography.** Lupşor-Platon M, Badea R, Gersak M, Maniu A, Rusu I, Suciua A, Vicas C, Stefănescu H, Urs R, Al Hajjar N. *J Gastrointest Liver Dis*. 2016 Dec;25(4):525-532.
3. **Hepatic fibrosis and supersonic shear imaging in patients with different etiological chronic hepatic diseases.** Sun LL, Chang W, Jiao LQ, Cui X, Dong G. *J Biol Regul Homeost Agents*. 2016 Jul-Sep;30(3):761-765.
4. **Monitoring Radiofrequency Ablation Using Ultrasound Envelope Statistics and Shear Wave Elastography in the Periablation Period: An In Vitro Feasibility Study.** Tsui PH, Wang CY, Zhou Z, Wan YL. *PLoS One*. 2016 Sep 7;11(9):e0162488.
5. **Shear-wave Elastography of the liver and spleen identifies clinically significant portal hypertension: a prospective multi-center study.** Jansen C, Bogs C, Verlinden W, Thiele M, Möller P, Görtzen J, Lehmann J, Vanwollegem T, Vonghia L, Praktijnjo M, Chang J, Krag A, Strassburg CP, Francque S, Trebicka J. *Liver Int*. 2016 Aug 29. doi: 10.1111/liv.13243.
6. **Maximum Value Measured by 2-D Shear Wave Elastography Helps in Differentiating Malignancy from Benign Focal Liver Lesions.** Tian WS, Lin MX, Zhou LY, Pan FS, Huang GL, Wang W, Lu MD, Xie XY. *Ultrasound Med Biol*. 2016 Sep;42(9):2156-66.
7. **Does motion affect liver stiffness estimates in shear wave elastography? Phantom and clinical study.** Pellot-Barakat C, Chami L, Correias JM, Lefort M, Lucidarme O. *Eur J Radiol*. 2016 Sep;85(9):1645-50.
8. **Shear wave elastography (SWE) of the spleen in patients with hepatitis B and C but without significant liver fibrosis.** Pawluś A, Inglot M, Chabowski M, Szymańska K, Inglot M, Patyk M, Słonina J, Caseiro-Alves F, Janczak D, Zaleska-Dorobisz U. *Br J Radiol*. 2016 Aug 16:20160423.
9. **Supersonic shearwave elastography in the assessment of liver fibrosis for postoperative patients with biliary atresia.** Chen S, Liao B, Zhong Z, Zheng Y, Liu B, Shan Q, Xie X, Zhou L. *Sci Rep*. 2016 Aug 11;6:31057.
10. **Utility of Shear Wave Elastography for Differentiating Biliary Atresia From Infantile Hepatitis Syndrome.** Wang X, Qian L, Jia L, Bellah R, Wang N, Xin Y, Liu Q. *J Ultrasound Med*. 2016 Jul;35(7):1475-9.
11. **Diagnostic Performance of Shear Wave Elastography for Predicting Esophageal Varices in Patients With Compensated Liver Cirrhosis.** Kim TY, Kim TY, Kim Y, Lim S, Jeong WK, Sohn JH. *J Ultrasound Med*. 2016 Jul;35(7):1373-81.

12. **Relationship between liver tissue stiffness and histopathological findings analyzed by shear wave elastography and compression testing in rats with non-alcoholic steatohepatitis.** Ogawa S, Moriyasu F, Yoshida K, Oshiro H, Kojima M, Sano T, Furuichi Y, Kobayashi Y, Nakamura I, Sugimoto K. *J Med Ultrason* (2001). 2016 Jul;43(3):355-60.
13. **Shear wave elastography of the spleen: evaluation of spleen stiffness in healthy volunteers.** Pawluś A, Inglot MS, Szymańska K, Kaczorowski K, Markiewicz BD, Kaczorowska A, Gąsiorowski J, Szymczak A, Inglot M, Bładowska J, Zaleska-Dorobisz U. *Abdom Radiol (NY)*. 2016 Jul 7. [Epub ahead of print]
14. **Frequency of minimal hepatic encephalopathy in illiterate patients with compensated cirrhosis.** Zuberi BF, Alvi H, Zuberi FF, Rasheed T, Nawaz Z, Fatima-Tuz-Zohra. *Pak J Med Sci*. 2016 May-Jun;32(3):595-8.
15. **Reliability Criteria for Liver Stiffness Measurements with Real-Time 2D Shear Wave Elastography in Different Clinical Scenarios of Chronic Liver Disease.** Thiele M, Madsen BS, Procopet B, Hansen JF, Møller LM, Detlefsen S, Berzigotti A, Krag A. *Ultraschall Med*. 2016 Jun 7. **Erratum: Reliability Criteria for Liver Stiffness Measurements with Real-Time 2D Shear Wave Elastography in Different Clinical Scenarios of Chronic Liver Disease.** Thiele M, Madsen BS, Procopet B, Hansen JF, Møller LM, Detlefsen S, Berzigotti A, Krag A. *Ultraschall Med*. 2016 Jul 14.
16. **Feasibility of transient elastography versus real-time two-dimensional shear wave elastography in difficult-to-scan patients.** Staugaard B, Christensen PB, Mössner B, Hansen JF, Madsen BS, Sørholm J, Krag A, Thiele M. *Scand J Gastroenterol*. 2016 Jun 16:1-6. [Epub ahead of print]
17. **Algorithm to rule out clinically significant portal hypertension combining Shear-wave elastography of liver and spleen: a prospective multicentre study.** Jansen C, Bogs C, Verlinden W, Thiele M, Möller P, Görtzen J, Lehmann J, Praktijnjo M, Chang J, Krag A, Strassburg CP, Francque S, Trebicka J. *Gut*. 2016 Jun;65(6):1057-8.
18. **Comparison of three ultrasound based elastographic techniques in children and adolescents with chronic diffuse liver diseases.** Belei O, Sporea I, Gradinaru-Tascau O, Olariu L, Popescu A, Simedrea I, Marginean O. *Med Ultrason*. 2016 Jun;18(2):145-50.
19. **Liver Fibrosis Evaluation Using Real-time Shear Wave Elastography in Hepatitis C-Monoinfected and Human Immunodeficiency Virus/Hepatitis C-Coinfected Patients.** Verlinden W, Bourgeois S, Gigase P, Thienpont C, Vonghia L, Vanwolleghem T, Michielsen P, Francque S. *J Ultrasound Med*. 2016 Jun;35(6):1299-308.
20. **Reliability and applicability of two-dimensional shear-wave elastography for the evaluation of liver stiffness.** Varbobitis IC, Siakavellas SI, Koutsounas IS, Karagiannakis DS, Ioannidou P, Papageorgiou MV, Pavlopoulou ID, Schizas D, Bamias G, Vlachogiannakos I, Ladas SD, Papatheodoridis GV. *Eur J Gastroenterol Hepatol*. 2016 Oct;28(10):1204-9.
21. **Shear wave elastography results correlate with liver fibrosis histology and liver function reserve.** Feng YH, Hu XD, Zhai L, Liu JB, Qiu LY, Zu Y, Liang S, Gui Y, Qian LX. *World J Gastroenterol*. 2016 May 7;22(17):4338-44.
22. **Diagnostic Accuracy of Real-Time Shear Wave Elastography for Staging of Liver Fibrosis: A Meta-Analysis.** Li C, Zhang C, Li J, Huo H, Song D. *Med Sci Monit*. 2016 Apr 22;22:1349-59.
23. **Sequential shear-wave elastography of liver and spleen rules out clinically significant portal hypertension in compensated advanced chronic liver disease.** Jansen C, Bogs C, Krag A, Francque S, Trebicka J. *Gut*. 2016 Apr 27. pii: gutjnl-2016-311955. doi: 10.1136/gutjnl-2016-311955.

24. **Hepatic stiffness in the bidirectional cavopulmonary circulation: The Liver Adult-Pediatric-Congenital-Heart-Disease Dysfunction Study group.** Kutty SS, Zhang M, Danford DA, Hasan R, Duncan KF, Kugler JD, Quiros-Tejeira RE, Kutty S. *J Thorac Cardiovasc Surg.* 2016 Mar;151(3):678-84.
25. **A new computer aided diagnosis system for evaluation of chronic liver disease with ultrasound shear wave elastography imaging.** Gatos I, Tsantis S, Spiliopoulos S, Karnabatidis D, Theotokas I, Zoumpoulis P, Loupas T, Hazle JD, Kagadis GC. *Med Phys.* 2016 Mar;43(3):1428-36.
26. **Elastography of shear wave speed imaging for the evaluation of liver fibrosis: a meta-analysis.** Shan QY, Liu BX, Tian WS, Wang W, Zhou LY, Wang Y, Xie XY. *Hepatol Res.* 2016 Feb 9. doi: 10.1111/hepr.12669.
27. **Diagnostic Accuracy of SuperSonic Shear Imaging for Staging of Liver Fibrosis: A Meta-analysis.** Feng JC, Li J, Wu XW, Peng XY. *J Ultrasound Med.* 2016 Feb;35(2):329-39.
28. **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.** Franchi-Abella S, Corno L, Gonzales E, Antoni G, Fabre M, Ducot B, Pariente D, Gennisson JL, Tanter M, Corréas JM. *Radiology.* 2016 Feb;278(2):554-62.
29. **Ultrasound Shear Wave Elastography for Liver Disease. A Critical Appraisal of the Many Actors on the Stage.** Piscaglia F, Salvatore V, Mulazzani L, Cantisani V, Schiavone C. *Ultraschall Med.* 2016 Feb;37(1):1-5.
30. **Shear wave elastography: An accurate technique to stage liver fibrosis in chronic liver diseases.** Guibal A, Renosi G, Rode A, Scoazec JY, Guillaud O, Chardon L, Munteanu M, Dumortier J, Collin F, Lefort T. *Diagn Interv Imaging.* 2016 Jan;97(1):91-9.
31. **Transient and 2-dimensional Shear-Wave Elastography provide comparable assessment of Alcoholic Liver Fibrosis and Cirrhosis.** Thiele M, Detlefsen S, Sevelsted Møller L, Madsen BS, Fuglsang Hansen J, Fialla AD, Trebicka J, Krag A. *Gastroenterology.* 2016 Jan;150(1):123-33.
32. **Diagnostic Accuracy of 2D-Shear Wave Elastography for Liver Fibrosis Severity: A Meta-Analysis.** Jiang T, Tian G, Zhao Q, Kong D, Cheng C, Zhong L, Li L. *PLoS One.* 2016 Jun 14;11(6):e0157219.
33. **Liver stiffness in nonalcoholic fatty liver disease: A comparison of Supersonic Shear Imaging, FibroScan and ARFI with liver biopsy.** Cassinotto C, Boursier J, De Ledinghen V, Lebigot J, Lapuyade B, Cales P, Hiriart JB, Michalak S, Le Bail B, Cartier V, Mouries A, Oberti F, Fouchard-Hubert I, Vergniol J, Aube C. *Hepatology.* 2015 Dec 13. doi: 10.1002/hep.28394.
34. **Shear Wave Elastography of Focal Liver Lesion: Intraobserver Reproducibility and Elasticity Characterization.** Park HS, Kim YJ, Yu MH, Jung SI, Jeon HJ. *Ultrasound Q.* 2015 Dec;31(4):262-71.
35. **Feasibility study for assessing liver fibrosis in paediatric and adolescent patients using real-time shear wave elastography.** Dhyani M, Gee MS, Misdraji J, Israel EJ, Shah U, Samir AE. *J Med Imaging Radiat Oncol.* 2015 Dec;59(6):687-94.
36. **Comparison of the Reliability of Acoustic Radiation Force Impulse Imaging and Supersonic Shear Imaging in Measurement of Liver Stiffness.** Woo H, Lee JY, Yoon JH, Kim W, Cho B, Choi BI. *Radiology.* 2015 Dec;277(3):881-6.
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39. **Evaluation of portal hypertension by real-time shear wave elastography in cirrhotic patients.** Kim TY, Jeong WK, Sohn JH, Kim J, Kim MY, Kim Y. *Liver Int*. 2015 Nov;35(11):2416-24.
40. **Focal nodular hyperplasia and hepatocellular adenoma: The value of shear wave elastography for differential diagnosis.** Brunel T, Guibal A, Boullaran C, Ducerf C, Mabrut JY, Bancel B, Bousset L, Rode A. *Eur J Radiol*. 2015 Nov;84(11):2059-64.
41. **Quantitative Shear-Wave Elastography of the Liver in Preterm Neonates with Intra-Uterine Growth Restriction.** Alison M, Biran V, Tanase A, Bendavid M, Blouet M, Demené C, Sebag G, Tanter M, Baud O. *PLoS One*. 2015 Nov 18;10(11):e0143220.
42. **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.** Grgurevic I, Puljiz Z, Brnic D, Bokun T, Heinzl R, Lukic A, Luksic B, Kujundzic M, Brkljacic B. *Eur Radiol*. 2015 Nov;25(11):3214-21.
43. **Amyloidosis of the liver on shear wave elastography: case report and review of literature.** Trifanov DS, Dhyani M, Bledsoe JR, Misdraji J, Bhan AK, Chung RT, Samir AE. *Abdom Imaging*. 2015 Oct;40(8):3078-83.
44. **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.** Tada T, Kumada T, Toyoda H, Ito T, Sone Y, Okuda S, Tsuji N, Imayoshi Y, Yasuda E. *Hepatol Res*. 2015 Oct;45(10):E122-9.
45. **Assessment of Substantial Liver Fibrosis by Real-time Shear Wave Elastography in Methotrexate-Treated Patients With Rheumatoid Arthritis.** Kim TY, Kim JY, Sohn JH, Lee HS, Bang SY, Kim Y, Kim MY, Jeong WK. *J Ultrasound Med*. 2015 Sep;34(9):1621-30.
46. **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.** Gerber L, Kasper D, Fitting D, Knop V, Vermehren A, Sprinzi K, Hansmann ML, Herrmann E, Bojunga J, Albert J, Sarrazin C, Zeuzem S, Friedrich-Rust M. *Ultrasound Med Biol*. 2015 Sep;41(9):2350-9.
47. **Performance of 2-D Shear Wave Elastography in Liver Fibrosis Assessment Compared with Serologic Tests and Transient Elastography in Clinical Routine.** Bota S, Paternostro R, Etschmaier A, Schwarzer R, Salzl P, Mandorfer M, Kienbacher C, Ferlitsch M, Reiberger T, Trauner M, Peck-Radosavljevic M, Ferlitsch A. *Ultrasound Med Biol*. 2015 Sep;41(9):2340-9.
48. **Assessment of Liver and Spleen Stiffness in Patients With Myelofibrosis Using FibroScan and Shear Wave Elastography.** Webb M, Shibolet O, Halpern Z, Nagar M, Amariglio N, Levit S, Steinberg DM, Santo E, Salomon O. *Ultrasound Q*. 2015 Sep;31(3):166-9.
49. **Supersonic Shear Imaging and Transient Elastography With the XL Probe Accurately Detect Fibrosis in Overweight or Obese Patients With Chronic Liver Disease.** Yoneda M, Thomas E, Sclair SN, Grant TT, Schiff ER. *Clin Gastroenterol Hepatol*. 2015 Aug;13(8):1502-1509.e5.
50. **Liver and spleen elastography using supersonic shear imaging for the non-invasive diagnosis of cirrhosis severity and oesophageal varices.** Cassinotto C, Charrie A, Mouries A, Lapuyade B, Hiriart JB, Vergniol J, Gaye D, Hocquet A, Charbonnier M, Foucher J, Laurent F, Chermak F, Montaudon M, de Ledinghen V. *Dig Liver Dis*. 2015 Aug;47(8):695-701.

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52. **Quantitative comparison of transient elastography (TE), shear wave elastography (SWE) and liver biopsy results of patients with chronic liver disease.** Kim HJ, Lee HK, Cho JH, Yang HJ. *J Phys Ther Sci.* 2015 Aug;27(8):2465-8.
53. **Value of shear wave elastography for predicting hepatocellular carcinoma and esophagogastric varices in patients with chronic liver disease.** Kasai Y, Moriyasu F, Saito K, Hara T, Kobayashi Y, Nakamura I, Sugimoto K. *J Med Ultrason (2001).* 2015 Jul;42(3):349-55.
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55. **Beyond Biopsy: The Cost Benefits of ShearWave Elastography for Liver Diagnosis.** Guibal A. *Radiol Manage.* 2015 Jul-Aug;37(4):13-5.
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58. **Roles of acoustic radiation force impulse and two-dimensional shearwave elastography in grading liver fibrosis in rabbits.** Li N, Luo YK, Tang WB. *Zhongguo Yi Xue Ke Xue Yuan Xue Bao.* 2015 Apr;37(2):157-62.
59. **Two-dimensional shear-wave elastography and conventional US: the optimal evaluation of liver fibrosis and cirrhosis.** Zheng J, Guo H, Zeng J, Huang Z, Zheng B, Ren J, Xu E, Li K, Zheng R. *Radiology.* 2015 Apr;275(1):290-300.
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61. **Shear-wave elastography for the estimation of liver fibrosis in chronic liver disease: determining accuracy and ideal site for measurement.** Samir AE, Dhyani M, Vij A, Bhan AK, Halpern EF, Méndez-Navarro J, Corey KE, Chung RT. *Radiology.* 2015 Mar;274(3):888-96.
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64. **Investigating liver stiffness and viscosity for fibrosis, steatosis and activity staging using shear wave elastography.** Deffieux T, Gennisson JL, Bousquet L, Corouge M, Cosconea S, Amroun D, Tripon S, Terris B, Mallet V, Sogni P, Tanter M, Pol S. *J Hepatol.* 2015 Feb;62(2):317-24.

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69. **Normal liver stiffness in healthy adults assessed by real-time shear wave elastography and factors that influence this method.** Huang Z, Zheng J, Zeng J, Wang X, Wu T, Zheng R. Ultrasound Med Biol. 2014 Nov;40(11):2549-55
70. **Real time shear wave elastography in chronic liver diseases: accuracy for predicting liver fibrosis, in comparison with serum markers.** Jeong JY, Kim TY, Sohn JH, Kim Y, Jeong WK, Oh YH, Yoo KS. World J Gastroenterol. 2014 Oct 14;20(38):13920-9.
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75. **Evaluation of fatty liver fibrosis in rabbits using real-time shear wave elastography.** Lu Y, Wei J, Tang Y, Yuan Y, Huang Y, Zhang Y, Li Y. Exp Ther Med. 2014 Aug;8(2):355-362.
76. **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.** Zeng J, Liu GJ, Huang ZP, Zheng J, Wu T, Zheng RQ, Lu MD. Eur Radiol. 2014 Oct;24(10):2572-81.
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88. **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.** Leung VY, Shen J, Wong VW, Abrigo J, Wong GL, Chim AM, Chu SH, Chan AW, Choi PC, Ahuja AT, Chan HL, Chu WC. *Radiology*. 2013 Dec;269(3):910-8.
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