

Ultrasound-Guided Attenuation Parameter (UGAP) Liver Steatosis Grading



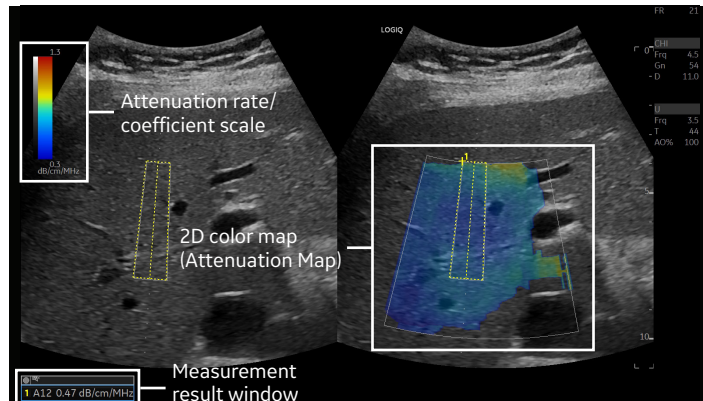
LOGIQ™ E10 and LOGIQ E10s ultrasound systems

Designed to address the prevalence of non-alcoholic fatty liver disease (NAFLD), UGAP provides a non-invasive, quantifiable way to measure hepatic steatosis that utilizes attenuation of the sound wave. For more information, please see the UGAP whitepaper.

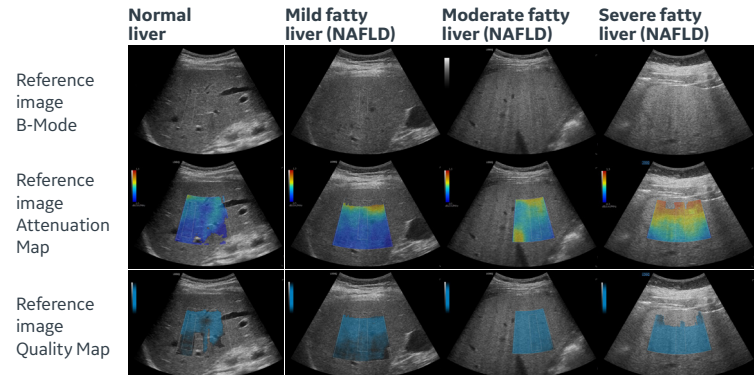
	≥ S1	≥ S2	S3
AUROC (95% CI)	0.901 (0.891 – 0.928)	0.912 (0.894 – 0.929)	0.894 (0.873 – 0.916)
Attenuation coefficient cutoff value (dB/cm/MHz)	0.65	0.71	0.77
Attenuation rate cutoff value (dB/m)	228	249	270

AUROCs, 95% CI and cutoff values of UGAP for the prediction of ≥ S1, ≥ S2 and S3 steatosis.

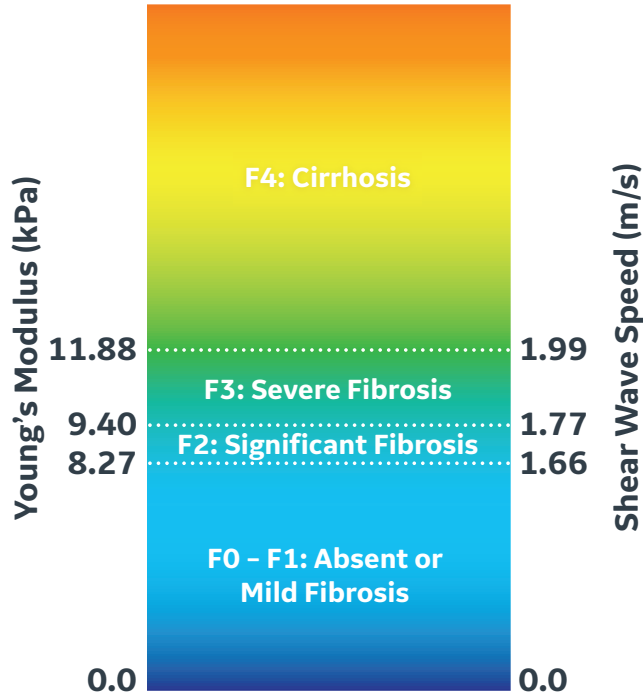
Example of B-Mode/Color dual display format.



Examples of color-mapped attenuation images at different degrees of liver fat.



2D Shear Wave Elastography



LOGIQ E9, LOGIQ E10, and LOGIQ E10s ultrasound systems

A GE study has demonstrated that LOGIQ E9 Shear Wave Elastography is a robust technique and capable of evaluating stiffness changes in the liver associated with fibrosis. Although a limited number of subjects were evaluated at the hospital in this study, liver stiffness measurements were shown to be useful for discriminating different stages of fibrosis. It is important to note that a small number of subjects with intermediate stages of fibrosis were evaluated in this study, and that a mix of disease etiologies were present. Therefore, the values shown may not be directly applicable to other patient populations. Data was acquired using LOGIQ E9 R5.1.0 equivalent software and the C1-6-D probe. The results are applicable to LOGIQ E9 R6, LOGIQ E10 and LOGIQ E10s. For detailed information, please see the LOGIQ E9/E10/E10s Shear Wave Elastography whitepaper.



The values for the shear wave speed and tissue modulus are relative indices intended only for the purpose of comparison with other measurements performed using the LOGIQ E9, LOGIQ E10 and LOGIQ E10s. Absolute values for these measurements may vary among different measurement devices.

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