

# Liver Markers in UltraFast Ultrasound Imaging

Non-invasive Management of Liver Disease Throughout the Care Cycle



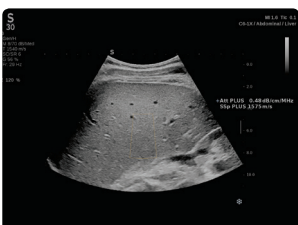
## SUPERSONIC™ MACH™ 30

SuperSonic MACH 30 ultrasound system leverages 13 years of clinical expertise to help you handle exams with ease and confidence.

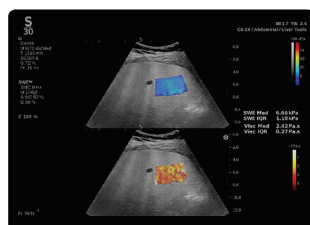
Powered by the next generation of UltraFast imaging and featuring streamlined ergonomics, both efficiency and comfort are maximized.

The ability to innovate materializes once again with the introduction of unprecedented tools for non-invasive assessment of liver disease severity.

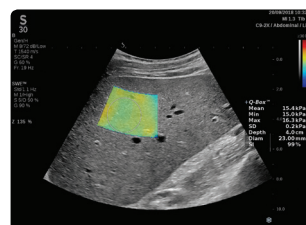
Steatosis ..... Steatohepatitis ..... Fibrosis ..... Cirrhosis ..... Hepatocellular Carcinoma



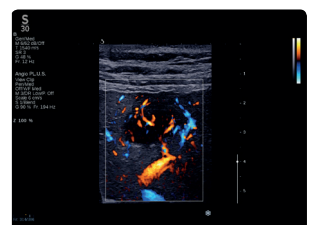
**Att PLUS and SSp PLUS Imaging**  
Measurement of attenuation and speed of sound in the liver



**Vi PLUS Imaging**  
Visualization and quantification of tissue viscosity



**ShearWave™ PLUS Elastography**  
Measurement of liver elasticity (in kPa) for liver fibrosis assessment

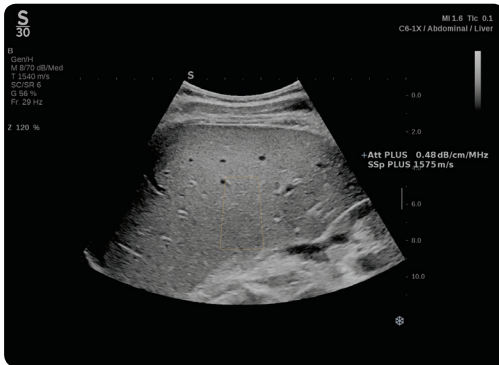


**Angio PLUS Imaging**  
Visualization of microvascularization for the characterization of lesions

# Arsenal of 3 new innovative tools

Non-invasive and quick exams

Quantitative and reproducible results



## Att PLUS Imaging

Quantification of the ultrasound beam attenuation in the liver.

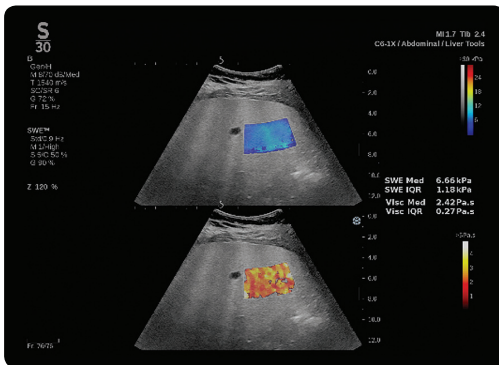
Information on the intra-hepatic fat content, an important indicator for the detection of liver steatosis<sup>1</sup>.



## SSp PLUS Imaging

Measurement of the intra-hepatic speed of sound.

Data on the intra-hepatic fat content, an asset in the diagnosis of liver steatosis<sup>2</sup>.



## Vi PLUS Imaging

Visualization and quantification of tissue viscosity<sup>3</sup>.

Real-time access to information on viscosity in addition to elasticity, two major tissues' characteristics.

- 1/ Fujiwara Y, Kuroda H, Abe T et al. The B-mode image-guided ultrasound attenuation parameter accurately detects hepatic steatosis in chronic liver disease. *Ultrasound Med Biol.* 2018 Nov;44(11):2223-2232.
- 2/ Dioguardi Burgio M, Imbault M, Ronot M et al. Ultrasonic Adaptive Sound Speed Estimation for the Diagnosis and Quantification of Hepatic Steatosis: A Pilot Study. *Ultraschall Med.* 2019 Dec;40(6):722-733.
- 3/ Deffieux T, Montaldo G, Fink M et al. Shear wave spectroscopy for in vivo quantification of human soft tissues visco-elasticity. *IEEE Trans Med Imaging.* 2009 Mar;28(3):313-22.

## SuperSonic Imagine

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Indications for Use: The SuperSonic Imagine - SuperSonic™ MACH™ range ultrasound diagnostic systems and transducers are intended for general purpose pulse echo ultrasound imaging, soft tissue viscoelasticity imaging and Doppler fluid flow analysis of the human body. The SuperSonic™ MACH™ ultrasound diagnostic systems are indicated for use in the following applications, for imaging and measurement of anatomical structures: Abdominal, Small Organs, Musculoskeletal, Superficial Musculoskeletal, Vascular, Peripheral Vascular, Intraoperative, OB-GYN, Pelvic, Pediatric, Transrectal, Transvaginal, Urology, Neonatal/Adult Cephalic and Non-invasive Cardiac. In addition, the SuperSonic Imagine SuperSonic™ MACH™ ultrasound diagnostic systems and associated transducers are intended for: measurements of abdominal anatomical structures; measurements of broadband shear wave speed, and tissue stiffness in internal structures of the liver and the spleen; measurements of brightness ratio between liver and kidney; visualization of abdominal vascularization, microvascularization and perfusion; quantification of abdominal vascularization and perfusion. The shear wave speed, beam attenuation, viscosity and stiffness measurements, the brightness ratio, the visualization of vascularization, microvascularization and perfusion, the quantification of vascularization and perfusion may be used as an aid to clinical management of adult and pediatric patients with liver disease. It is intended for use by licensed personnel qualified to direct the use of the medical ultrasound devices. CE certificate no. 26415, FDA cleared K180572.

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