

# Liver Markers in UltraFast™ Ultrasound Imaging

Non-invasive Management of Liver Disease Throughout the Care Cycle



## SUPERSONIC™ MACH30

SuperSonic MACH 30 ultrasound system leverages 10 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.**

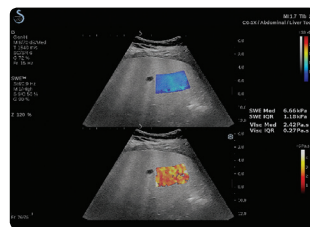
The ability to innovate materializes once again with the introduction of unprecedented tools for **non-invasive assessment of liver disease severity.**

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



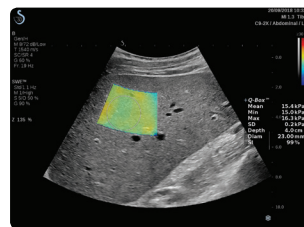
### Att PLUS™ and SSp PLUS™ Imaging

Measurement of  
attenuation and speed  
of sound in the liver



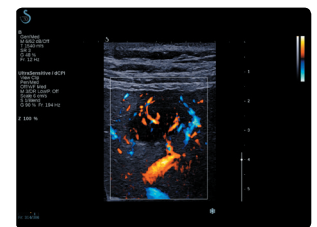
### Vi PLUS™ Imaging

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

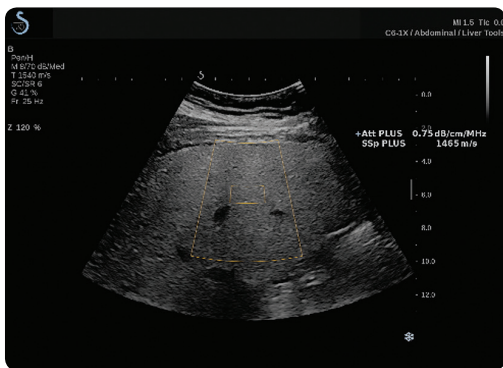
Quantitative and reproduceable results



## Att PLUS™ Imaging

Quantification of the ultrasound beam attenuation in the liver.

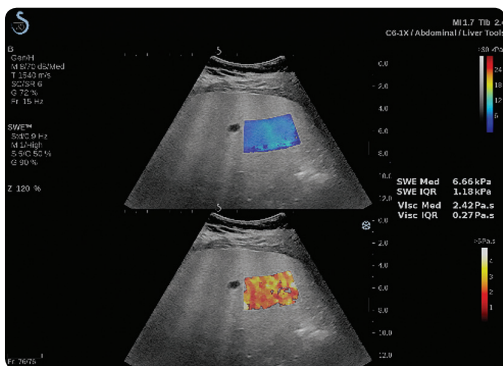
Information on the intra-hepatic fat content, an important indicator for the detection of liver steatosis\*.



## 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\*\*.



## Vi PLUS™ Imaging

Visualization and quantification of tissue viscosity\*\*\*.

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

\* Fujiwara et al., The B-mode image-guided ultrasound attenuation parameter accurately detects hepatic steatosis in chronic liver disease, *Ultrasound in Med. & Biol.* 2018

\*\* Dioguardi Burgio et al., Ultrasonic Adaptive Sound Speed Estimation for the Diagnosis and Quantification of Hepatic Steatosis: A Pilot Study, *Ultraschal Med.* 2018

\*\*\* Deffieux T et al., Shear Wave Spectroscopy for In Vivo Quantification of Human Soft Tissues Visco-Elasticity, *IEEE Transactions on Medical Imaging*, 2009

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