PHILIPS

Ultrasound

Raising standards in abdominal ultrasound

Philips EPIQ Elite Elevate and Affiniti Elevate

Worldwide obesity has nearly tripled since 1975.[1] Both obesity and alcohol consumption, which are increasing in many parts of the world, are key risk factors for liver disease.[2]

The **EPIQ Elite Elevate and Affiniti Elevate** platforms bring ultimate ultrasound solutions for abdominal assessment, with clinically tailored tools designed to help elevate diagnostic confidence.

Confident imaging

PureWave crystals have virtually perfect uniformity for greater bandwidth, resulting in excellent detail resolution and improved Doppler sensitivity.

C5-1 transducer

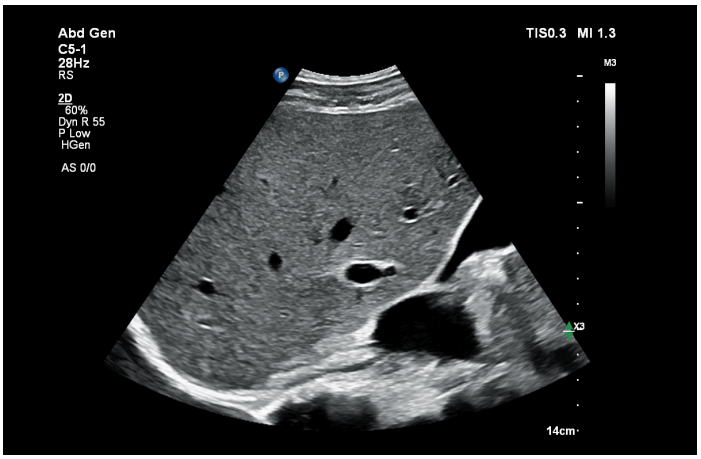
PureWave crystal transducer technology provides outstanding image quality, even in technically difficult patients.[3]

eL18-4 transducer

High resolution and penetration with the eL18-4 PureWave transducer.*

mC7-2 transducer

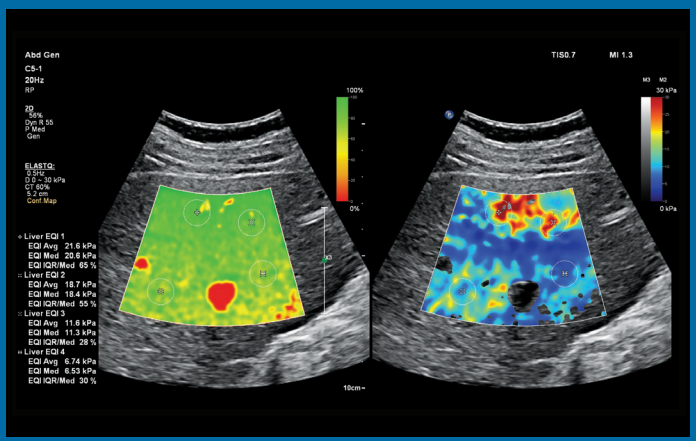
Small footprint design for abdominal and interventional procedures.



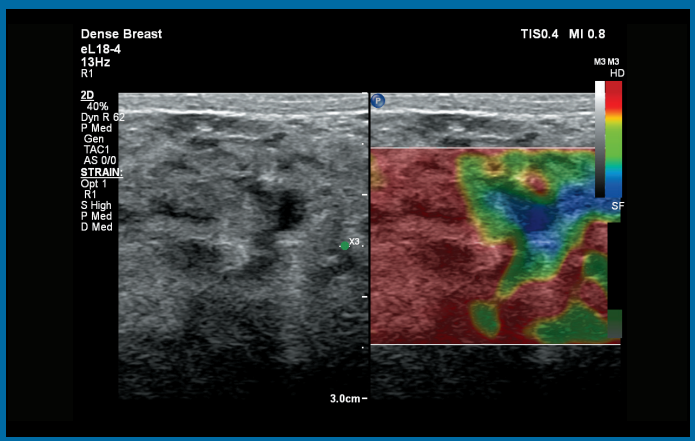
Liver imaging with the C5-1 transducer

Faster, more reproducible liver assessment

Upgrade your liver elastography exams and experience the future of liver health assessment



Confidence and stiffness maps for liver elastography



Strain elastography provides more definitive information on tissue stiffness in the breast

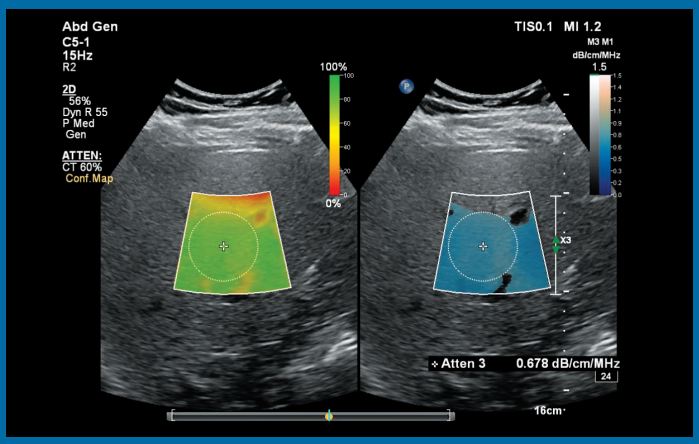
ElastQ Imaging

Real-time quantitative assessment of liver tissue stiffness. Features a Philips confidence map display for additional assurance that user measurements are from tissue areas with adequate shear wave propagation.

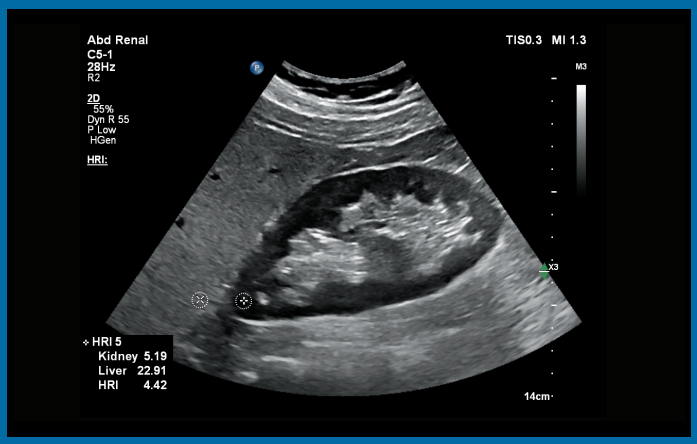
Strain elastography

This qualitative technique allows the user to see the relative stiffness of a questionable lesion compared to the surrounding tissue.

*eL18-4 Resolution and penetration clinical case studies (2018).



LFQ with the C5-1 transducer



Echogenicity of liver to kidney

Liver Fat Quantification (LFQ)

EPIQ Elite Elevate offers an all-in-one ultrasound solution that is noninvasive and cost-effective,* to deliver liver fat quantification and liver stiffness assessment. This is liver health assessment made easy.

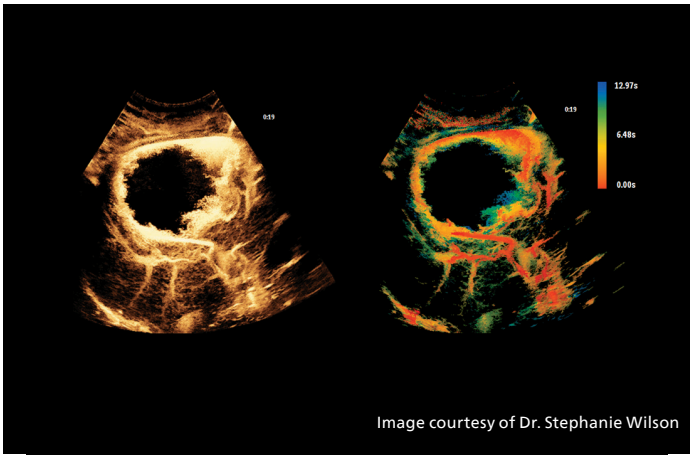
Hepatorenal index (HRI)

Quantitatively compares the echogenicity of the liver to that of a healthy kidney.

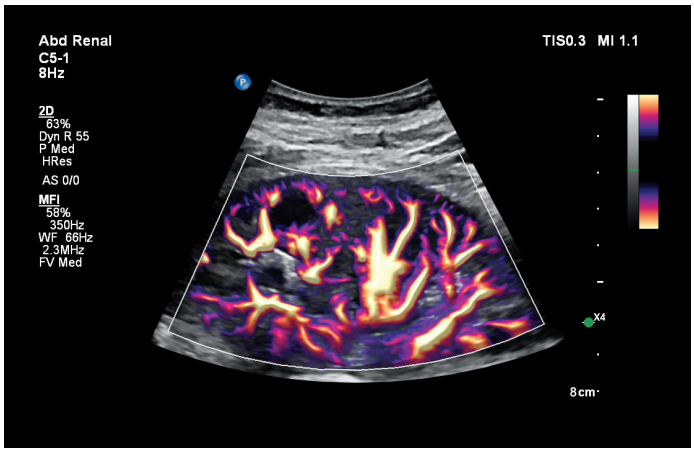
"The widespread use of this technology in a general population could be helpful in screening for advanced chronic liver disease, especially considering that a complete study can be done in under three minutes using a noninvasive method for chronic liver disease."**

Richard G. Barr, MD, PhD
President, Radiology Consultant, Inc. | Medical Director, Southwoods Imaging, Youngstown, OH

Visualize more



Liver lesion with Super Resolution MVI and Time of Arrival



Renal imaging with the C5-1 transducer with MFI

Microvascular Imaging Super Resolution Contrast-enhanced Ultrasound (CEUS) and Time of Arrival

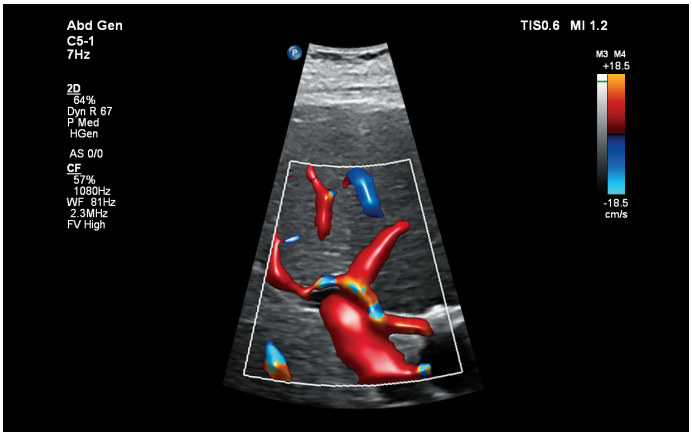
Super Resolution MVI improves resolution by more than 200%.†
Time of Arrival provides concise visualization of the temporal patterns of perfusion while maintaining the superb spatial resolution offered‡

MicroFlow Imaging (MFI)

Provides remarkable sensitivity and detail in **assessing blood flow.**

*Compared to MR elastography.
**Actual results may vary.

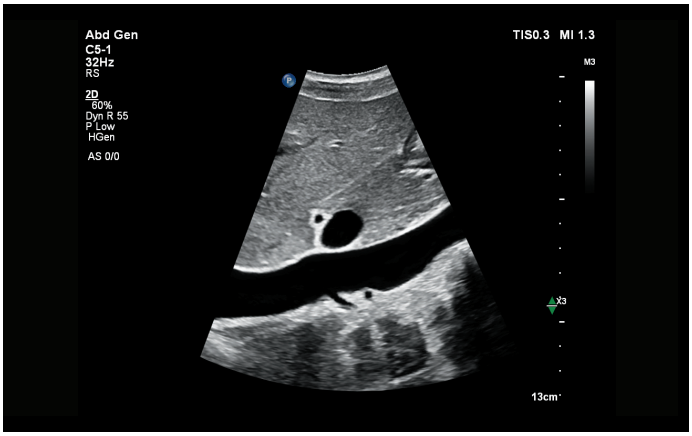
†Compared to previous MVI capability.
‡Not available on the Affiniti ultrasound system.



Liver imaging with the C5-1 transducer with Flow Viewer

Flow Viewer

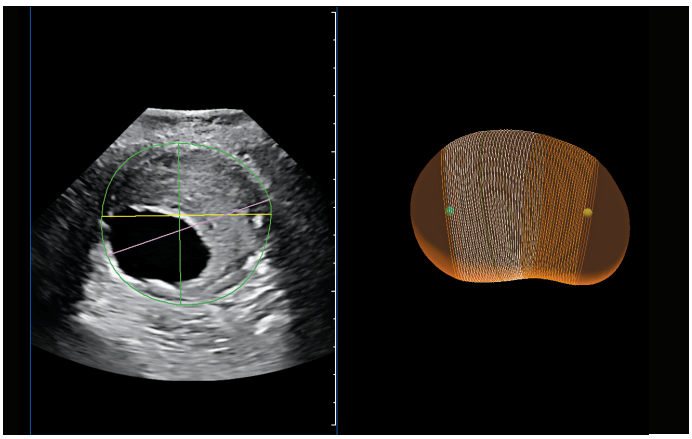
Defines vasculature with a **3D-like appearance** using both the velocity and power of the Doppler signal to accurately represent vascular flow topography.



Abdomen imaging with the C5-1 transducer with Auto Scan

Auto Scan

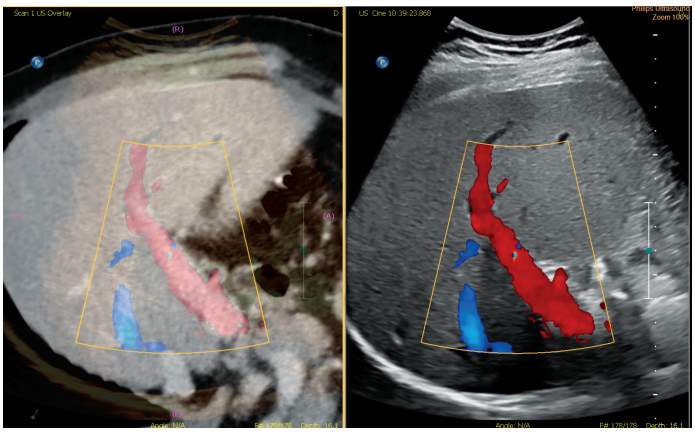
Improves image uniformity, adaptively adjusting image brightness at every pixel, reducing rib shadowing and the need for user adjustment while also improving transducer plunkability. Reduces button pushes by up to 54% with pixel-by-pixel real-time optimization.*



Abdominal Aortic Aneurysm

Abdominal Aortic Aneurysm (AAA) Model

Segments and quantifies 3D ultrasound data for surveillance of native and post-EVAR AAAs with interoperator reproducibility superior[4] to that of 2D ultrasound.**



Multimodality fusion imaging

Fusion and Navigation for interventional radiology

Auto Registration helps achieve successful alignment of CT or MR volumes to ultrasound in less than one minute[5] for the effective characterization of lesions. Gain more time to focus on the procedure ahead and spend less time on performing the registration necessary for accurate fusion.

*When comparing Release 10 performance to Release 7 performance. **Not available on the Affiniti ultrasound system.

References

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2. Cheemerla S, Balakrishnan M. Global epidemiology of chronic liver disease. Clin Liver Dis. 2021;17(5):365-370. doi.org/10.1002/cld.1061.
3. Chen J, Panda R, Savord B. Realizing dramatic improvements in the efficiency, sensitivity and bandwidth of ultrasound transducers: Philips PureWave crystal technology. Koninklijke Philips N.V. Aug 2006.
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