



**Philips EPIQ Elite and Affiniti**

# Redefining performance in vascular ultrasound

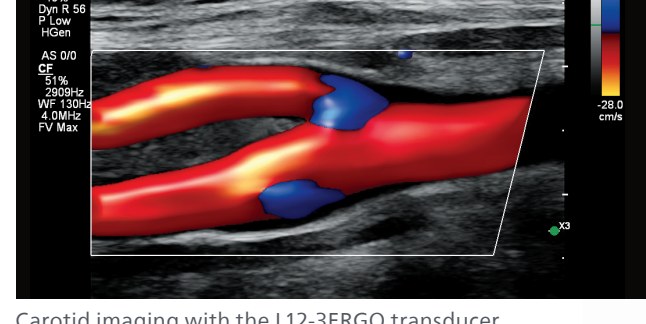
Population growth and aging are increasing incidence of cardiovascular disease worldwide.<sup>1</sup> Philips ultrasound solutions help clinicians efficiently assess and monitor vascular disease, enabling delivery of exceptional patient care even for patients who are technically difficult to scan, such as those with high BMIs.

Ultrasound has significant strengths in vascular imaging. It is widely available, easy to use, more cost-effective than other imaging methods such as MR, and does not have the ionizing radiation of CT.<sup>2</sup> It can help clinicians reliably assess the vasculature in real time through comfortable scanning, thanks to Philips advances in transducer ergonomics.

## Confident imaging

### L12-3ERGO transducer

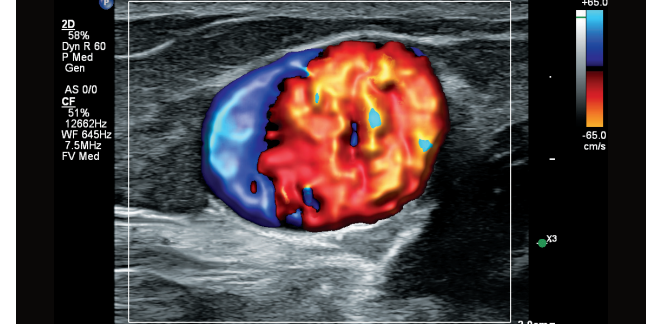
Ergonomic design allows ease of use and better grip during procedures, with xRes Pro to provide **superb delineation of vessel interfaces** and enhanced plaque texture conspicuity, helping elevate diagnostic confidence during vascular imaging.



Carotid imaging with the L12-3ERGO transducer

### mL26-8 transducer

High-frequency transducer to **enhance image contrast and sharpness**, as well as detailed vessel views.<sup>3</sup>



Vascular imaging with the mL26-8 transducer

### C5-1 transducer

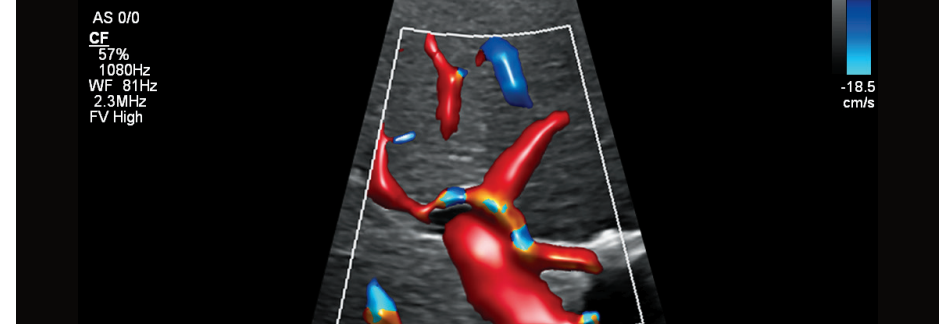
PureWave crystal transducer technology for **outstanding image quality** even in technically difficult patients (TDP).<sup>4</sup>



Abdominal imaging with the C5-1 transducer

### Flow Viewer

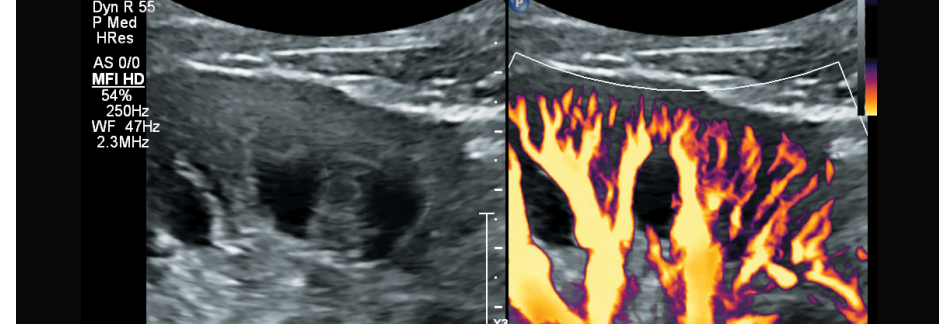
Defines vasculature with a **3D-like appearance** with reduced flash artifact using both the velocity and power of the Doppler signal to accurately represent vascular flow topography. Enables sharper delineation of vascular flow margins as compared to traditional mode in 100% of cases.<sup>5</sup>



Abdominal imaging with the C5-1 transducer with Flow Viewer

### MicroFlow Imaging HD (MFI HD)

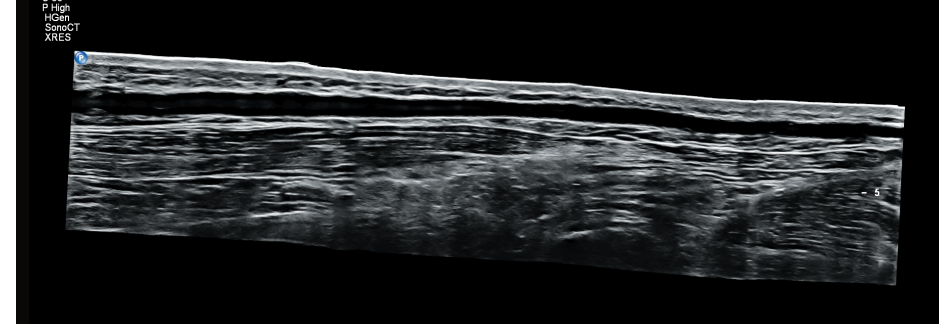
Offers **2x the sensitivity and resolution**<sup>6</sup> of MFI in assessing blood flow.<sup>7</sup>



Renal imaging with the C5-1 transducer with MFI HD

### Panoramic view

Provides the **entire landscape** in a single view for a global representation of anatomical structures.



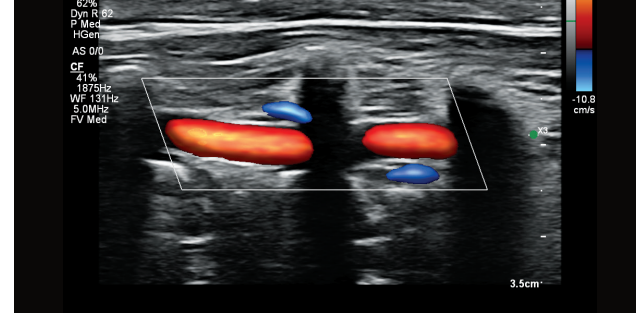
Arterial imaging with the eL18-4 transducer with panoramic view

**nSight Plus Imaging Architecture,\* a more powerful beamforming technology providing next-generation imaging performance.\*\***



### eL18-4 transducer

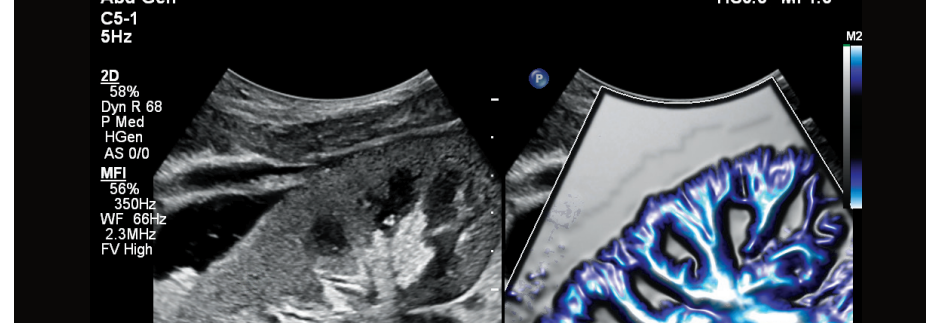
Featuring a multi-row array configuration, the eL18-4 transducer provides thin-slice imaging for **exceptional detailed resolution and tissue uniformity** from near to far depth of field in vascular imaging.



Vertebral artery with the eL18-4 transducer

### MicroFlow Imaging (MFI)

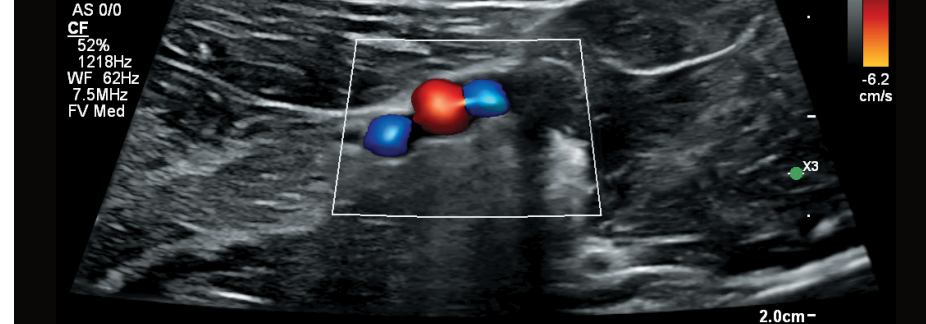
Provides remarkable sensitivity and detail in **assessing blood flow**.<sup>8</sup>



Renal imaging with the C5-1 transducer with MFI

### Trapezoid imaging with true trapezoid color

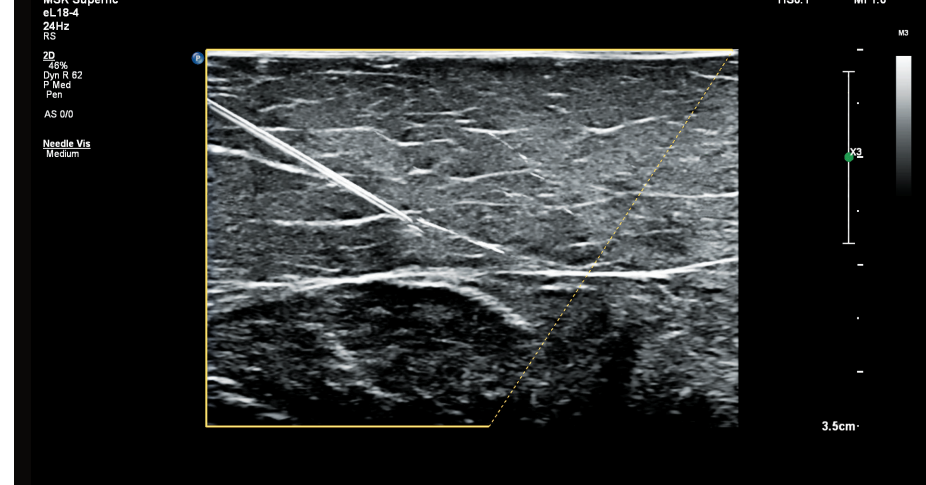
Displays a wider field of view using the mL26-8 transducer, which provides a **75% larger field of view**.<sup>9</sup>



Vascular imaging with the mL26-8 transducer with trapezoid view

### Needle visualization

Enhances needle visualization for interventional procedures.



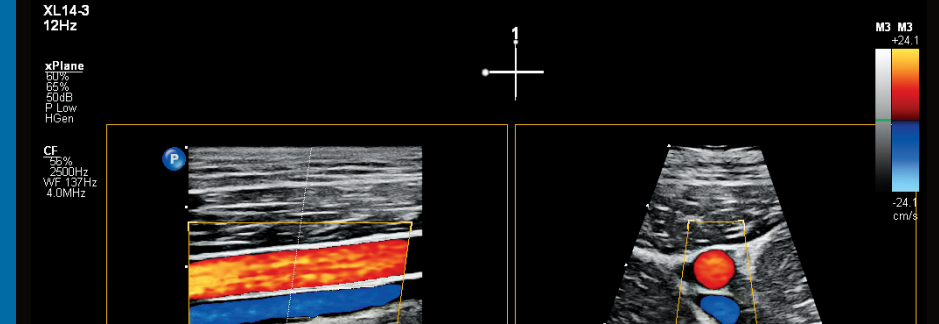
Interventional imaging with the eL18-4 transducer

\* Not available on all transducers.  
 \*\* Compared to release 7.0.  
 † Not available with the Affiniti ultrasound system.  
 ‡ Philips is rated number one in overall service performance for ultrasound for 28 consecutive years in the annual IMV ServiceTrack survey in the USA.  
 § Compared to our previous monitor without MaxVue.  
 ¶ Internal measured comparison on standard MFI to MFI HD using clinical targets and standard measurement methodology.  
 †† Compared to the predecessor transducer L15-7i0 for all depths greater than 1.6 cm.

## Advanced insights

### xPlane imaging

**93% of users** feel that xPlane Doppler could reduce simple volume placement errors and provide greater reproducibility and consistency.<sup>10</sup>



Vascular imaging with the XL14-3 transducer

### Vessel cast 3D imaging

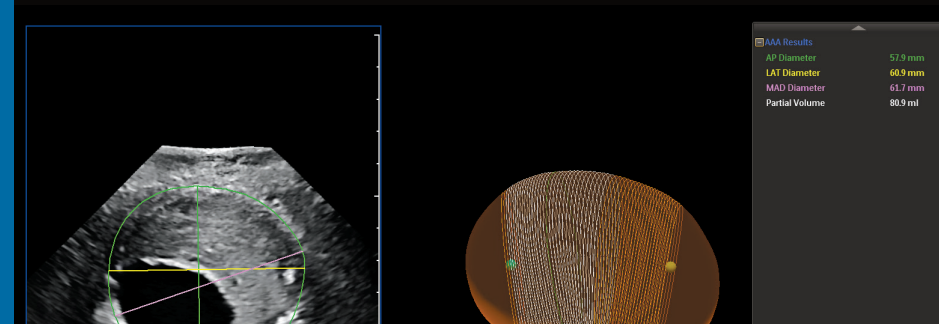
**78% of users**<sup>11</sup> believe visualizing vessel cast using 3D/4D flow data will assist in providing direct assessment of stenotic or tortuous conditions.<sup>12</sup>



Carotid imaging with the XL14-3 transducer

### Abdominal Aortic Aneurysm (AAA) Model

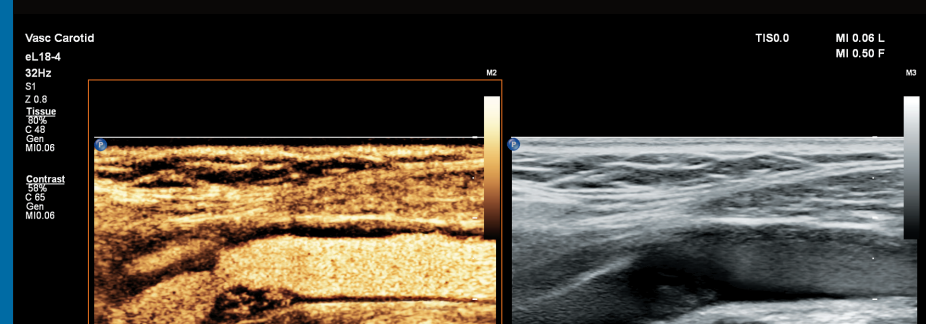
Segments with interquartile 3D ultrasound data for surveillance of native and post-EVAR AAAs with superior reproducibility superior to that of 2D ultrasound.<sup>13</sup>



Abdominal aortic aneurysm

### Contrast-enhanced Ultrasound (CEUS)

Easily add CEUS to nearly any exam, with immediate optimization of CEUS studies and exceptional performance across multiple agents and applications.



Carotid contrast with the eL18-4 transducer

\* Not available with the Affiniti ultrasound system.  
 † Internal specification comparison of OLED on EPIQ CVx vs. EPIQ HD MAX.  
 ‡ Compared to our previous monitor without MaxVue.  
 § 2013 engineering study comparing Philips iU22 ultrasound system with EPIQ.  
 ¶ When comparing release 10 performance to release 7 performance.  
 †† Based on a sample size of n=37.  
 ‡‡ Compared to its predecessor product, iU22.

## Intuitive experience

**HD MAX display\***

- 40% brighter than OLED display technology\*\*
- +38% more viewing area with MaxVue full-screen imaging

**Tablet-like interface**

Dramatically reduce reach and button pushes, with 40% to 80% less reach and 15% fewer steps.<sup>14</sup>

**Superb ergonomics**

More than 80% of sonographers experience work-related pain, and more than 20% of them suffer a career-ending injury.<sup>15</sup> Multiple degrees of articulation for both control panel and monitor offer 720° of freedom for scanning comfort.

**SmartExam**

Enhances user workflow with system-guided protocols that can be easily customized to suit your needs and with Image Recorder, you can select and move images within thumbnail views.

**Image duplication screen**

Displays a duplicate monitor image on the touchscreen for **enhanced workflow** during interventional procedures.

**Next Gen AutoSCAN**

Improves image uniformity, adaptively adjusting image brightness at every pixel and reducing the need for user adjustment while also improving transducer plunkability. **Reduces button pushes by up to 54%** with pixel-by-pixel real-time optimization.<sup>16</sup>

**Post-processing controls**

Reduces the need for repeat scans. 84% of users reported that rescanning the patient due to unsatisfactory image quality resulting from inappropriate image settings could be avoided.<sup>17</sup>

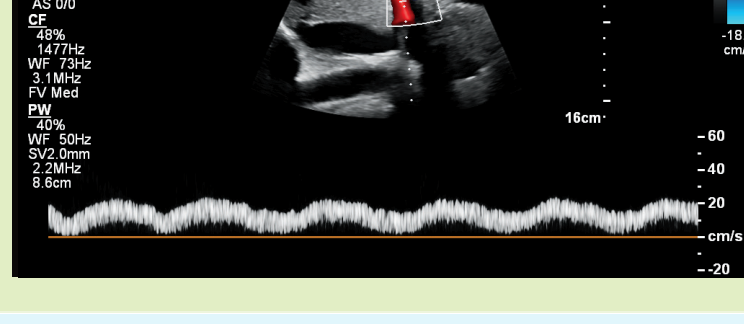
**Battery instantaneup**

Enables near-instantaneous boot-up through a battery life of 45 minutes. One of the greenest systems we've ever designed, EPIQ consumes **25% less power** than our legacy premium ultrasound system.<sup>18</sup>

Uses **25% less power**

### Auto Doppler

Adjusts optimal flow sensitivity and resolution, reducing **10 steps to 3 steps** and also reducing the number of repetitive button pushes by an average of **68%**.<sup>19</sup>



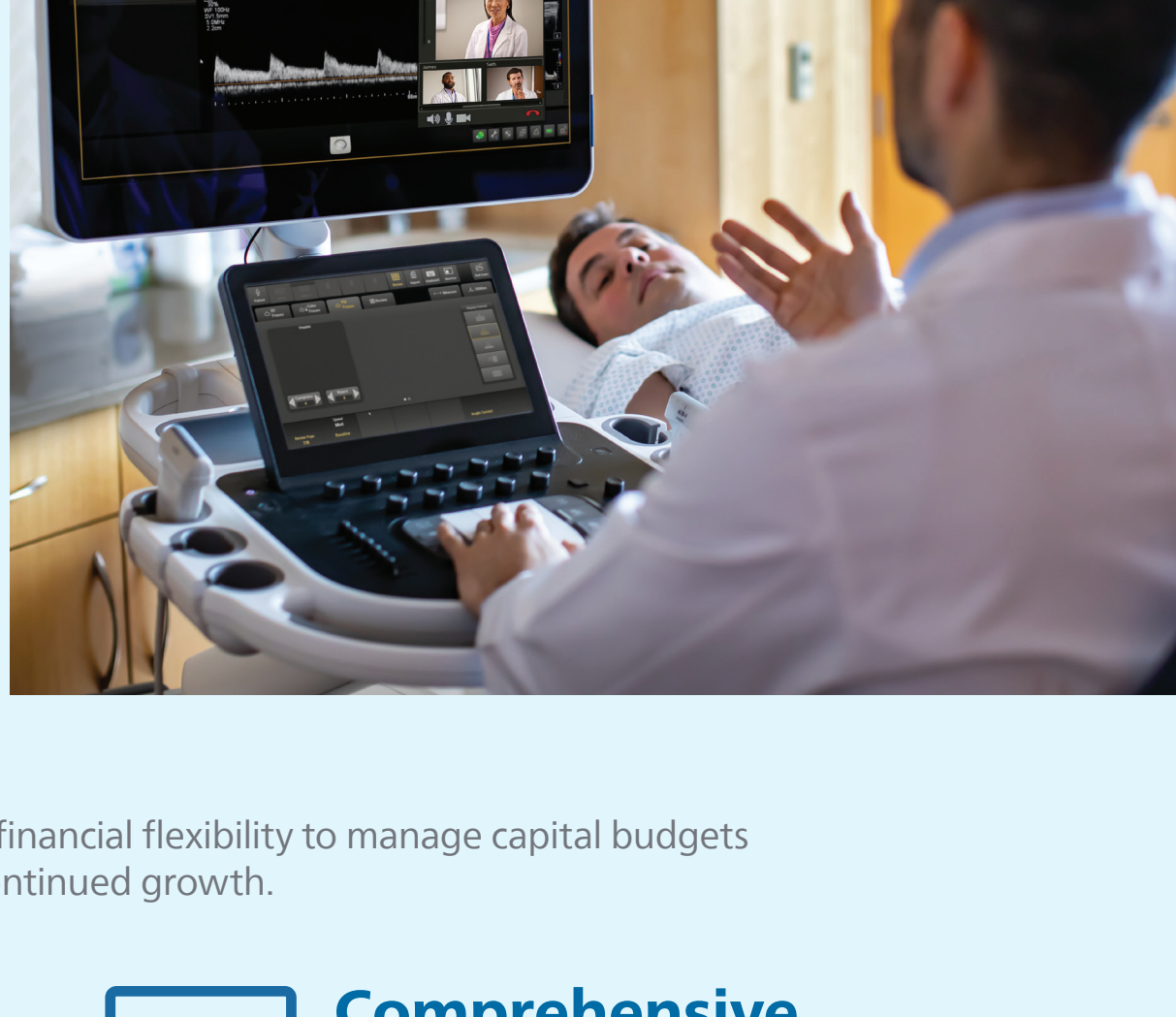
Reduces number of button pushes by **68%**

## Trusted partner

### Ultrasound Collaboration Live with Multi-party\*

Extend your team without expanding it. Remote access to help elevate diagnostic confidence, now with simultaneous multi-party communication.

Up to six users can quickly and securely talk, text, screen share and video stream directly from the ultrasound system for access to multiple clinical resources at a distance.\*\*



### Flexible financing

Innovative solutions tailored to you, with the financial flexibility to manage capital budgets and return on investment, supporting your continued growth.

### Defense-in-depth security

Philips ultrasound is developed for security as well as clinical capability.<sup>6</sup>

### Comprehensive clinical education

To improve operational efficiency and support patient care.

### Award-winning service

Philips has ranked #1 in ultrasound service for nearly 30 years in a row.<sup>20</sup>

### A world leader in sustainability

Philips is committed to lifecycle circularity for its systems.<sup>21</sup>

\* EPIQ and Affiniti ultrasound systems release 10.0.  
 † Contract required. Collaboration Live is intended for remote diagnostic use on release 9.0 or higher.  
 ‡ Philips is rated number one in overall service performance for ultrasound for 28 consecutive years in the annual IMV ServiceTrack survey in the USA.  
 § Philips again achieved a #2 ranking in the leading sustainability benchmark in Dow Jones Sustainability Indices and achieved 2nd place in the 2020 Wall Street Journal's "100 Most Sustainable Managed Companies in the World" list.  
 ¶ NIH National Heart, Lung, and Blood Institute Research Feature. Cardiovascular disease is on the rise, but we know how to curb it. We've done it before. February 3, 2021.  
 †† www.philips.nl/hq/news/2021/cardiovascular-disease-rise-we-know-how-curb-it-weve-done-it.  
 ‡‡ Radiologyinfo.org: www.radiologyinfo.org/en/info/genac.  
 § Chen J, Panda R, Savard B. Realizing dramatic improvements in the efficiency, sensitivity and bandwidth of ultrasound transducers: Philips PureWave crystal technology. Koninklijke Philips N.V. Aug. 2006. 2014-2030; W715-W723. doi:10.2214/AJR.13.12061.  
 ¶ Society of Diagnostic Medical Sonography, Industry Standards for the Prevention of Musculoskeletal Disorders in Sonography, May 2003.  
 † Philips Auto Doppler Clinical Study, white paper, document number 452299180331, April 2023.  
 †† Philips EPIQ and Affiniti Security Decree, document number 452299180331, April 2023.

Find out more at [www.philips.com/gi](http://www.philips.com/gi)

