

ing a mammogram and provides decision support to help reduce interpretation errors and improve reading performance," Cumming said.

Based on a collaboration with ScreenPoint Medical, which offers a mammography reading software called Transpara that is based on deep learning, interactive decision support will be integrated into the syngo.Breast Care software.

The syngo.Breast Care solution will be a "turnkey" offering as part of the Siemens workstation and is integrated into the radiologist's workflow.

The software is approved for 2D mammography and 3D is pending FDA clearance.

## SonoCiné

SonoCiné enables an ultrasound probe to be attached to its robotic arm and facilitates a scan over the entire breast.

In November 2017, the company released a software update for its automated whole breast ultrasound system. The most significant change is modifying the output file into a standard DICOM format.



Additionally, the most recent software can scan at a frame rate of every 400 microns, whereas before it was scanned every 800 microns. This results in a crisper, more fluid picture, with the ability to find smaller, Stage 1 cancers.

"We present radiologists with an image they are used to seeing," said **Rafael Carballido**, medical liaison for SonoCiné. "We can show smaller cancers in a reliable and easier-to-read way."

## Supersonic Imagine

Last year, Supersonic Imagine launched the newest version of its breast UltraFast ultrasound system, called the Aixplorer MACH 30.

The system has a new processor that allows the Sheerwave PLUS elastography signal to go deeper into the body and also reduces the power consumption of the scanner significantly, from 1,500 watts down to 350 watts, said **Jacques Souquet**, director of innovation at Supersonic Imagine.

"The product is amazingly silent," Souquet said. "Usually, these systems are in small scanning rooms. The ambient noise is very annoying for ultrasound tech who is in the room all day long."

The fast engine allows the scanner to acquire data at up to 20,000 frames per second, which Souquet said can provide a base for using emerging AI technology in ultrasound.

The company also improved the user interface of the system. Instead of the trackball, it added a SonicPad touchpad, which Souquet said enables the technologist to stay focused on the image they are creating.

"Everything is done on the pad itself," Souquet said.

The new user interface can speed up the exam by 30 percent and reduce the technologist's hand movement by 70 percent, reducing musculoskeletal injuries to the sonographer.



*Supersonic Imagine Aixplorer MACH 30*

## Volpara

At last year's RSNA, the company announced a product called VolparaLive! that guides the radiologic technologist on proper positioning and compression for mammography exam.

"It's basically a virtual coach," said **Belmar**

**Velazquez**, director of marketing at Volpara.

Another product, called VolparaEnterprise, tracks the quality of the mammogram based on technologists' positioning and compression over a period of time. VolparaLive! keeps track of the positioning and compression, providing feedback to the technologist before the patient leaves the exam room.

"It reduces patient anxiety because you're not calling them back for a technical recall if there are any quality issues," Velazquez said.

The instruction is not seen by the patient and "the patients don't even know this is taking place," Velazquez said.

VolparaLive! has been in alpha and beta testing, with the first customer expected to go live in the beginning of June of this year.

Additionally, with the FDA requirement that all women are notified of breast density to determine if they require supplemental screening, the company has seen a resurgence of interest in its VolparaDensity product, which uses machine learning to analyze mammograms and provide breast density assessments. The product received FDA clearance in 2010, with the first installation taking place in 2011.

The company continues to improve the product's algorithm, with more updates coming soon, Velazquez said.

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