Medicine Rejoices as Samsung Demonstrates New Medical Technologies
Samsung Shows off New AI-based Medical Technologies

Samsung has recently decided to show off their newest medical technologies at ECR 2019—The European Congress of Radiology in Vienna, Austria. This conference, which took place this year from February 27 – March 3, is one of the leading events in radiology. The event showcases the latest innovations in radiologic technologies.

At one of the booths, Samsung showcased some of their latest diagnostic imaging equipment. They saw the impact that using their AI technologies had on existing diagnostic imaging devices, and wanted to further push the envelope. Samsung had many items for the booth this year, such as the mobile CT OmniTom®, a prototype of the Extremity MRI, and the S-Vue™. Their most notable items, however, were their diagnostic solutions. To continue pushing the boundaries of what is possible in the radiologic community, they introduced their solutions specifically for breast screening and real-time ultrasound image sharing.

Samsung had several solutions they showcased for breast screening, such as the S-Detect™, S-Shearwave Imaging™, MV-Flow™, and ElastoScan+.

The S-Detect™ :

This is an AI-based piece of softward that has the ability to analyze breat lesions using ultrasound images. It is geared to aid in standarized reports and classification for breast lesions deemed ‘suspicious’, along with BI-RADS® ATLAS (known as Breast Imaging-Reporting and Data System, Atlas and is a registered trademark of the American College of Radiology) being incorporated into this tool. How does it work? Whenever a user selects the region that they would like to analyze, the S-Detect™ for Breast will analyze the lesion selected and will then provide a multitude of classification options. This kind of technology can help take diagnosing these lesions to a whole other level, and can make the process quicker for patients who need it.

S-Shearwave Imaging™ :

Another innovative piece of equipment, this device will measure the stiffness of tissue or lesions in the breast. It’s a non-invasive measurement, but will provide a higher level of information. Utilizing the equipment's quantitative measurements and color-coded elastogram, healthcare professionals can make more accurate breast disease diagnoses. This is revolutionary in the field, as prior ways of obtaining such samples had to have samples taken

from the patient to be analyzed. Not having to have a piece of your body removed from your body can mean the world to a patient having to go through this process, and this device will not only provide these more accurate diagnoses, but give patient's the peace of mind they deserve.

MV-Flow™ :

In order to visualize the slow flow microvascularized structures, providers have had to use the Color Doppler. MV-Flow™ provides an alternative to this, allowing for high frame rates that will give an extremely detailed view. The advanced filtering capabilities have the ability to show the suspicious breast lesions and the blood flow in relation to those surrounding tissues. Another diagnostic tool that can help providers better visualize these devastating breast lessions.

ElastoScan+ :

This ultrasound technology provides user with the capability of seeing elasticity of measured tissues. It helps to show the presence of these lesions in the breast and displays any stiffness into color images. Samsung goes even further to provide an assessment that was design to allow for easy calculations to determine the strain ratio for these lesions.

The real time ultrasound image sharing solution from Samsung was the SonoSync™. This device essentially allows a real-time streaming network service, much more capable that that of what has been previously used for ultrasound exam operations. How is it different? It allows for bidirectional communication for both voice and marking, allowing for providers to review and share images with patients during the examination. It can be used with any current hardware for ultrasound scanners. The best part? It can be easily connected with other devices for further sharing capabilities, such as smartphones, laptops, tablets, and more.

What more could Samsung possible bring to the table for healthcare with such an innovative line up? Well, in addition to their latest technologies, Samsung also introduced the S-Vue™. The company announced that due to a recent approval from the U.S. Food and Drug Administration (FDA), they are expanding their healthcare portfolio to include pediatric low dose devices, such as the S-Vue™. What does this device do? It essentially will deliver high-resolution images, but will cut the dosage by 45%. This cut will lower the dose level for pediatric abdomen exams, without having to worry about sacrificing the quality of the images.

It does this with an advanced noise reduction algorithm that will all for better image processing without the high dosages.

The last technology introduced at the conference by Samsung was the SimGrid™. This device will help image contrast by way of reducing scatter radiation effects. This, in turn, helps to create a better image quality for providers. The hope is that by utilizing this device, the need for retaking images will decrease, and therefore increase patient satisfaction. As well as reducing costs for additional image retakes.

Those in healthcare can rest easy with the knowledge that Samsung is working so tirelessly to create such innovative devices. Patient care quality will skyrocket with such technologies on providers side!

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