
ECR2016: Cutting-Edge US Technology Helps Overcome Diagnostic Challenges



Samsung has introduced cutting-edge ultrasound technology that aims to overcome diagnostic challenges, with leading radiologists praising the benefits of the pair of new diagnostic tools for breast ultrasound – S-Detect and E-Breast.

Samsung's range of solutions in computed tomography (CT), ultrasound and digital radiography (DR) systems, are all designed to enrich the quality of care and workflow, and enhance the patient experience.

Professor Sun Mee Kim of the Seoul National University said during a satellite symposium on the sidelines of the European Congress of Radiology (ECR2016) in Vienna, that breast ultrasound has its limitations, primarily being the aspect of training, which both the operator and even the machine depend on.

According to the manufacturer, S-Detect™ employs breast imaging-reporting and data system scores for standardised analysis and classification of suspicious lesions. By simply clicking the suspected area, it provides the characteristics of the lesion and a recommendation on whether the lesion is benign or malignant.

"The purpose is to initiate added value of breast ultrasound computer assisted diagnostics. Using the system, we saw improve diagnostic patterns," Dr Kim said.

E-Breast™ is the function for breast lesion examinations, which calculates the strain between the area of the suspected lesion (ROI) and normal breast fat and displays the results.

"The introduction of these systems may improve diagnostic performance by decreasing interoperator variability," Dr Kim said.

Another speaker, Dr. Vito Cantisani, discussed the clinical experience of new technologies in ultrasound such as Shearware, and explained in detail the examples of stenosis in a certain examination, saying that existing protocols were enhanced by injecting a contrast agent to a colour Doppler analysis, which would have otherwise been very hard to identify.

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