



RSNA 2011: Siemens Unveil ACUSON S3000 Ultrasound System



Siemens Healthcare has unveiled the ACUSON S3000™, a new ultrasound system at the Scientific Assembly and Annual Meeting of the Radiological Society of North America (RSNA). The system is stated to feature advanced automated ultrasound fusion imaging and multi-modality review capabilities, aiming at providing additional clinical and spatial information in the analysis of complex pathology and/or during interventional procedures such as biopsies. Siemens has also unveiled the 8C3 high-density transducer, specifically designed for obstetrics and paediatric applications.

Virtual Touch tissue IQ and eSie Touch elasticity imaging were also unveiled, which permit the simultaneous display of a colour-coded tissue stiffness map (elastogram) via tissue compression. Virtual Touch tissue quantification** additionally measures the propagation speed of shear waves to offer the first and only quantitative assessment of increased tissue stiffness – a frequent sign of pathology.

The ACUSON S3000 ultrasound system offers proprietary eSie Fusion imaging, enabling the automatic fusion of 3D computed tomography (CT) volumes with real-time ultrasound with a single click. Current fusion techniques require time-consuming manual registration of CT or magnetic resonance (MR) images, and also require patients to lie motionless throughout the entire exam to avoid elaborate manual realignments. The ACUSON S3000 system's automatic, one-click advanced registration capabilities eliminate these limitations, reducing CT image registration to seconds and simplifying manual registration techniques to enhance workflow during MR volume registration.

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