

Healthcare Sector Imaging & IT Division

Siemens Showcases New Dedicated Women's Imaging Ultrasound Platforms at SMFM

Dedicated women's imaging systems and applications take OB/GYN imaging to the next level

Chicago, Ill., February 3, 2010 – Featuring the new release of its premium ACUSON S2000™ ultrasound system – *Women's Imaging* and ACUSON X300™ ultrasound system, premium edition (PE) – *Women's Imaging*, Siemens Healthcare (booth #813) will highlight the latest innovations in OB/GYN imaging at the Society for Maternal-Fetal Medicine's (SMFM) 30th Annual Meeting in Chicago. Siemens will be showcasing advanced clinical applications that bring a new dimension of diagnosis and workflow enhancements to fetal ultrasound.

The ACUSON S2000 ultrasound system – *Women's Imaging* represents the pinnacle of innovative technologies and workflow-enhancing clinical applications, which dramatically improve the efficiency and quality of ultrasound exams. Latest acoustic technologies deliver a powerful system optimized for superb 2D, Doppler and 3D/4D imaging for the most demanding requirements in maternal-fetal medicine. The system features Siemens-exclusive knowledge-based workflow applications, such as eSieScan™ workflow protocols, enhancing examination processes and increasing the consistency of exams, while at the same time reducing keystrokes to enable shorter exam times and improve patient throughput.

The ACUSON S2000 system – *Women's Imaging* also features Fetal Heart STIC (Spatio-Temporal Image Correlation) imaging, which captures data over multiple heart cycles and creates a 3D fetal heart volume, allowing sonographers to view the fetal heart in multiple planes.

Compact, portable, and easy to use, the ACUSON X300 PE – *Women's Imaging* offers a complete OB/GYN imaging solution. It delivers exceptional clinical performance in B-mode, color Doppler, PW Doppler, and 3D/4D imaging. Offering Dynamic TCE™ tissue contrast enhancement technology and TGO™ tissue grayscale optimization technology, the system provides one-button optimization of B-mode images to shorten exam time, reduce repetitive motion, and provide greater consistency between users. *fourSight*™ 4D imaging technology enables streamlined, intuitive

1 / 3

workflow and advanced acquisition, data rendering, and post-processing functionality for trans-abdominal and endovaginal 3D/4D exams.

Knowledge-Based Automated Fetal Biometrics

One of the highlights of the ACUSON S2000 system – *Women's Imaging* and the ACUSON X300 system PE – *Women's Imaging* includes *syngo*® Auto OB measurements, an advanced clinical tool that automates routine biometry measurements of the fetus.

“Up until now, users needed to perform biometry measurements manually,” said Dr. Norbert Gaus, CEO, Ultrasound, Siemens Healthcare. “*syngo* Auto OB measurements eliminate this time-consuming manual process saving up to 75 percent of the keystrokes in routine fetal measurements freeing users from repetitive tasks, so they can focus on their patients.”

The application also addresses the challenges related to user-dependence and variability, as well as consistency and reproducibility in fetal biometry. Measurements are automatically saved into the patient's report and include the biparietal diameter (BPD), head circumference (HC), abdominal circumference (AC), femur length (FL), crown rump length (CRL) and the humerus length (HL).

Immersive 3D Imaging

Siemens will also be showcasing the new *syngo*®. *fourSight*™ Workplace* image management software which uses NVIDIA® 3D Vision™ stereoscopic glasses and NVIDIA® Quadro® FX high-end professional graphics solutions to create the most stunning 3D/4D images of the fetus. The clinical images, obtained with the ACUSON S2000 system, are further enhanced using Amnioscopic Rendering, a Siemens-exclusive technology that produces photo-realistic 3D images. While conventional 3D ultrasound technologies use two-dimensional monitors for the evaluation of 3D images, utilizing NVIDIA 3D Vision technology, users can experience 3D images in real 3D.

“This technology takes 3D/4D ultrasound imaging to the next level,” said Gaus. “Our *syngo.fourSight* Workplace, combined with the NVIDIA Quadro professional graphics solution and 3D Vision technology, offers a truly remarkable experience that's rewarding for parents and their doctors, while also delivering practical benefits in medicine.”

This quality improvement may provide additional information to the physician and assist in communication between surgeons and patients or to aid in treatment or surgical planning.

**syngo.fourSight* Workplace is a work in progress.

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