

Healthcare Sector Imaging & IT

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Siemens Introduces Dedicated Ultrasound Solution for Obstetrics and Gynecology

Acuson X300 Premium Edition (PE) – Women’s Imaging Features Latest Ultrasound Technologies to Improve Diagnostic Confidence and Clinical Workflow

Siemens Healthcare introduces a dedicated ultrasound solution for Obstetrics and Gynecology, the Acuson X300 ultrasound system, Premium Edition (PE) – Women’s Imaging at the International Congress of Obstetrics and Gynecology (ISUOG). The system features exceptional clinical performance across all modes, including 3D/4D imaging. Unique workflow tools such as automated biometry measurements of the fetus streamline the exam process for greater patient throughput. Compact, highly portable, and easy to use, the system accommodates the needs especially for private practices.

The Acuson X300 PE – Women’s Imaging system features syngo Auto OB measurements, a unique workflow tool that automates routine biometry measurements of the fetus. “Syngo Auto OB measurements is a knowledge-based workflow application that eliminates the time-consuming manual process of biometry measurements with a savings up to 75 percent of the keystrokes,” said Norbert Gaus, Chief Executive Officer of Ultrasound at Siemens Healthcare. “Not only does this help to accelerate workflow, this may also help to reduce repetitive stress injury (RSI) among users.”

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), and the humerus length (HL).

Innovative Applications

The Acuson X300 PE – Women’s Imaging system also offers Advanced fourSight volume imaging technology providing a complete 3D/4D solution. It delivers streamlined, intuitive workflow and

1 / 3

advanced acquisition, data rendering and post-processing functionality for all examinations. In addition, the system offers syngo Velocity Vector Imaging (VVI) for fetal echocardiography, a sophisticated 2D tracking algorithm which provides insight into fetal myocardial mechanics.

“A comprehensive analysis of these heart functions may help detect fetal cardiac anomalies more easily during routine obstetrical exams,” said Gaus. “The earlier anomalies are detected and referred to a pediatric specialist, the better the clinical prognosis for the postnatal infant.”

To complete the solution, the Syngo fourSight ViewTool technology offers easy offline analysis, remote review, manipulation and storage of 3D/4D volumes, freeing the ultrasound system for additional patient exams.

Increased Diagnostic Confidence

The Acuson X300 PE – Women’s Imaging features a suite of advanced imaging and transducer technologies to support breast, obstetrics and gynecological imaging. Key technologies include SieClear multi-view spatial compounding and Dynamic TCE tissue contrast enhancement technology for improved contrast resolution and border enhancement in subtle tissue textures such as the endometrium. Further image enhancement is achieved through TGO tissue grayscale optimization technology which provides one button optimization of B-mode images to shorten exam time, reduces repetitive motion and provides greater consistency between users.

The unique ErgoDynamic imaging system design of the Acuson X300 PE — Women’s Imaging system includes a number of practical ergonomic features, including an adjustable control panel and articulating flat panel display, providing optimal positioning of the system in tight spaces. Its small, lightweight transducers complete the ergonomic package with advanced features such as Hanafy lens and MultiHertz multiple frequency imaging technologies, which provide excellent penetration with reduced scanning pressure. From a customizable patient entry screen to a 12-second system power-up for fast access, the system is engineered to easily address the day-to-day clinical challenges in Women’s Imaging.

Pictures for this press release can be downloaded under: <http://www.siemens.com/med-pictures/AcusonX300>

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