

### Healthcare Sector Imaging & IT

#### **Siemens Introduces Dedicated Women's Imaging Premium Ultrasound Platform**

Women's imaging system sets new standard for OB/GYN and breast imaging

**Hamburg, Germany, Sept. 14, 2009 – Adding a new premium ultrasound platform to its Women's Imaging line of products, Siemens Healthcare introduces the ACUSON S2000™ ultrasound system – *Women's Imaging* at the 19th World Congress on Ultrasound in Obstetrics and Gynecology (ISUOG) in Hamburg, Germany. At booth No. 201, the company demonstrates how innovative 3D/4D imaging solution and unique knowledge-based applications enhance the quality of care and speed up workflows in high-risk fetal imaging, obstetrics and gynecology, as well as breast imaging.**

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, OB/GYN and breast applications, including automated breast volume scanning. The system features unsurpassed image quality through 3D Dynamic TCE™ tissue contrast enhancement technology, which sharpens borders and reduces speckle and noise in the entire volume – rather than in reconstructed “slices” only – to greatly improve subtle tissue differentiation for enhanced diagnostic confidence. Anatomic border definition and tissue contrast is additionally improved through Advanced SieClear™ spatial compounding and electronic beam steering, which rapidly acquires overlapping images from different view angles.

#### **Knowledge-based workflow applications**

One of the highlights unique to the ACUSON S2000 system – *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 Norbert Gaus, chief executive officer, 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).

### **Fetal Echocardiography**

The ACUSON S2000 system – *Women’s Imaging* also features advanced applications for fetal echocardiography. *syngo*® Vector Velocity Imaging™ (VVI) technology provides physicians with an advanced tool for the assessment of global and regional myocardial muscle and motion mechanics. Specially designed to analyze the delicate cardiac anatomy of the fetus, the application offers clinically valuable visual and quantitative data output including velocity, strain, strain rate, ejection fraction and volume. In addition, the new system 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.

“Obtaining a 3D volume of the fetal heart will allow easy interrogation of the anatomy and may help detect fetal cardiac anomalies more easily during routine obstetrical exams,” said Barbara Del Prince, worldwide market manager for Obstetrics and Gynecology, Siemens Healthcare. “The earlier anomalies are detected and referred to a pediatric specialist, the better the clinical prognosis is for the postnatal infant.”

### **Advanced Volumetric Imaging**

The Advanced *fourSight*™ technology package for the ACUSON S2000 system – *Women’s Imaging* enhances diagnostic confidence by offering comprehensive 3D/4D data acquisition, data rendering and post processing including MultiSlice, Thick Slice imaging and inversion mode. 3-Scape™ real-time 3D imaging offers industry-leading 3D/4D acquisition and multi-planar visualization. Real-time capture and display of grayscale and power Doppler volumes using both high resolution 2D and *fourSight*™ 4D transducer technology further enhance the solution. The

system also includes industry-exclusive Amnioscopic Rendering, an advanced surface rendering tool which provides photo-realistic images of the fetus – a valuable tool to enhance maternal-fetal bonding.

### **Complete Breast Imaging Solution**

The ACUSON S2000 system – *Women's Imaging* is open to integrate automated breast volume scanning (ABVS). This configuration features an innovative, mobile in-suite design combining the advanced ACUSON S2000 system – *Women's Imaging* with a transducer specifically designed for automated ultrasound breast volume imaging. Quickly acquiring full-field sonographic volumes for comprehensive review and diagnosis of the breast, it streamlines workflow and reduces operator dependence and variability. The advanced 3D technology enables the intuitive, anatomical coronal plane, not available using conventional ultrasound. This view provides a more understandable representation of the global anatomy and architecture of the breast. Semi-automated reporting and comprehensive BI-RADS® reporting capabilities further enhance the clinical workflow. To further optimize high-volume patient breast care, the system also supports innovative breast imaging applications, such as fatty tissue and eSie Touch™ elasticity imaging.

### **Solutions for the Clinical Routine**

The Siemens workflow solution for OB/GYN also encompasses the ACUSON X300™ ultrasound system, Premium Edition (PE) – *Women's Imaging*. Compact, highly portable and easy to use, it offers sophisticated applications that were migrated from the high-end performance S Class into the X Class product series to support obstetrics, gynecological and breast imaging. Advanced *fourSight* volume imaging technology provides a complete 3D/4D solution in addition to delivering streamlined, intuitive workflow and advanced acquisition, data rendering and post-processing functionality for all examinations, including 2D and Doppler. The system also supports *syngo* Auto OB measurements addressing the workflow requirements of fetal biometry measurements. The ACUSON X300 PE – *Women's Imaging* accommodates the needs of any clinical environment – from private practices to busy hospital settings.

The **Siemens Healthcare Sector** is one of the world's largest suppliers to the healthcare industry and a trendsetter in medical imaging, laboratory diagnostics, medical information technology and hearing aids. Siemens is the only company to offer customers products and solutions for the entire range of patient care from a single source – from prevention and early detection to diagnosis, and on to treatment and aftercare. By optimizing clinical workflows for the most common diseases, Siemens also makes healthcare faster, better and more cost-effective. Siemens Healthcare employs some 49,000 employees worldwide and operates in over 130 countries. In fiscal year 2008 (to September 30), the Sector posted revenue of 11.2 billion euros and profit of 1.2 billion euros. For further information please visit:

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