

### **Excellent image quality for clear and detailed fetal scans at New Cross Hospital**

**Cardiac package from Siemens Healthcare assists with top quality ultrasound images**

Obstetric patients at New Cross Hospital, part of The Royal Wolverhampton Hospitals NHS Trust, are receiving highly accurate and detailed scans following the installation of three ACUSON S2000™ ultrasound systems and a Spatio-Temporal Imaging Correlation (STIC) application from Siemens Healthcare.

One S2000 system has been installed into the Fetal Medicine Department and includes STIC, for obtaining detailed images of fetal hearts. STIC provides an automated acquisition of a high quality fetal heart volume using a sophisticated algorithm that compensates for variability in heart rate. Multi-planar reformatted images are easily obtained for detailed anatomical evaluation. STIC also features real-time heart rate display and preview mode to improve workflow.

“The S2000’s excellent image quality provides a clear and detailed representation of any cardiac abnormalities, enabling us to accurately diagnose and treat as many problems as possible,” said David Churchill, Consultant Obstetrician at New Cross Hospital. “The STIC package will significantly increase our yield detection rate in small hearts to uncover problems early such as ventricular septal defects.”

The other two S2000 ultrasound systems have been installed into the maternity department for paediatric, obstetric and gynaecological work. “We selected the systems based on excellent image quality and the variety of different probes available,” said Sue Burford, Clinical Ultrasound Manager at New Cross Hospital. “We are very pleased with the lightweight and comfortable first trimester 9L4 probe, which we are using to obtain highly detailed obstetric and baby hip scans.”

The S2000 system in the maternity department at New Cross Hospital also features the *syngo*<sup>®</sup> Auto OB application, which enables automated measurements from knowledge-based fetal biometrics. It uses advanced statistical pattern recognition from a large database of ultrasound images to provide the sonographer with instant measurements without the need for manual calculations. This ensures that all measurement results are standardised and not subject to individual influences by cross checking against thousands of annotated images of fetal biometric measurements inside the Auto OB database engine. This ensures a standard and consistent result for the department.

“The S2000 ultrasound system is a versatile solution for obtaining detailed obstetric and fetal scans,” said Bernadette Leonard, Regional Sales Manager for Ultrasound Products at Siemens Healthcare. “The range of applications such as STIC and Auto OB provides quick and accurate information that clinicians need for detecting the smallest of abnormalities, enabling any problems to be accurately diagnosed and treated at an early stage.”

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**Picture caption:** The maternity department at New Cross Hospital welcomes the ACUSON S2000™ ultrasound system. From left to right: Sue Burford, Clinical Ultrasound Manager; Ann Pakes, Clinical Specialist Sonographer; Peter Cogings, Clinical Specialist Sonographer; Alison Yates, Clinical Specialist Sonographer; Patient; Bernadette Leonard, Regional Sales Manager for Ultrasound Products at Siemens Healthcare; Sara Westwood, Clinical Specialist Sonographer.



**Picture caption:** The Spatio-Temporal Imaging Correlation (STIC) application from Siemens Healthcare can be used with the ACUSON S2000™ ultrasound system to provide an automated acquisition of a high quality fetal heart volume, using a sophisticated algorithm that compensates for variability in heart rate.

