

Siemens present solutions for sustainable cardiovascular care at ESC 2011

Ultrasound, MRI, interventional imaging and laboratory diagnostics showcased

[Siemens Healthcare](http://www.siemens.com/esc) has presented its solutions for sustainable cardiovascular care at the European Society of Cardiology (ESC) congress in Paris, France. The portfolio included imaging technologies, in vitro diagnostics, IT solutions and consulting services. All enable cardiologists to make sound clinical decisions and provide safe procedures that at the same time address the growing economic challenges faced by today's healthcare systems. Video presentations from the 'Controversies in the Management of Cardiovascular Disease' satellite symposium are available to view online at www.siemens.com/esc.

Siemens presented a number of its imaging systems at ESC including the 2.0 release of its ACUSON SC2000™ volume imaging ultrasound system to demonstrate how new applications for volumetric imaging and analysis set standards in **4D echocardiography workflow**. The new system has taken volume imaging in echocardiography to a new level. In one heart cycle and without stitching or ECG gating, the system acquires the full volume of the heart at a 90 by 90 degree angle – including volumetric quantification of colour Doppler, as well as the left and right ventricles.

The **Cardiac Dot (Day optimizing throughput) workflow engine** available in the MAGNETOM® Aera 1.5T and MAGNETOM® Skyra 3T MRI scanners was also showcased. The Cardiac Dot Engine was developed to reduce the complexity of cardiac MRI scanning and to increase productivity. The new technology guides the user step-by-step through cardiac procedures, which are widely regarded to be some of the most complex MRI examinations. Customised protocols are automatically selected based on the patient's condition and clinical indication with just a few mouse clicks. Standardised long

and short axis views are generated on the basis of anatomical landmarks and are automatically carried over for subsequent sequences. Through the user guidance, patient personalisation, and exam automation provided by Dot, imaging departments can increase their productivity by up to 50 percent.

Siemens angiography solutions presented included the Artis zee™ and Artis zeego™ designed to support complex **cardiology interventions**. The Artis zeego assists in the treatment of structural heart diseases with its unique positioning flexibility and its quality 2D and 3D imaging. CARE and Clear technology along with a new generation of X-ray tubes further optimise the images - as a result, contrasts are more readily visible than before, even in real-time imaging of adipose patients at the lowest achievable doses. Intra-procedural 3D representations of anatomy using Siemens' syngo® DynaCT Cardiac software also play a major role. With the aid of this software, images captured during rotational angiography are reconstructed into a volume.

Solutions for **nuclear cardiology** were also demonstrated via IQ•SPECT on the Symbia® S and Symbia® T series, SPECT and SPECT•CT systems. This is dramatically reducing the length of imaging protocols from 20 minutes to less than five minutes. These shortened exams enable a sustainable approach to nuclear cardiology to potentially decrease radiation dose, make procedures more tolerable for the elderly, provide high quality diagnostic information and enable users to better utilise an imaging resource that is affected by limited availability of the key radiotracer.

Finally, Siemens also presented its **lab diagnostic solutions** for cardiology. The highly sensitive troponin assay on the Stratus® CS Acute Care™ helps identify infarct patients quickly¹ and heart failure patients can be diagnosed with elevated levels of BNP (B-type natriuretic peptide). Siemens also offers its NT-proBNP/BNP assays on all analysing systems belonging to the IMMULITE®, Dimension® and ADVIA Centaur® product families.

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Notes to editors:

1. Randomised Assessment of Treatment Using Panel Assay of Cardiac Markers ([RATPAC](#)) Trial: *Heart* 2010;hrt.2010.203166 Published Online First: 30 September 2010.

About Siemens Healthcare

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 offers its 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 optimising clinical

workflows for the most common diseases, Siemens also makes healthcare faster, better and more cost-effective. Siemens Healthcare employs some 48,000 employees worldwide and operates around the world. In fiscal year 2010 (to September 30), the Sector posted revenue of 12.4 billion euros and profit of around 750 million euros. For further information please visit: www.siemens.com/healthcare.

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Picture caption: Siemens Healthcare showcased its solutions for sustainable cardiovascular care at ESC 2011

