

Healthcare Sector Imaging & IT Division

New PET Imaging Application Helps Improve Detection of Advanced Coronary Artery Disease

Siemens launches industry's first integrated imaging solution* for myocardial blood flow measurement

Minneapolis, Minn., Oct. 6, 2009 – Siemens Healthcare announced today the availability of *syngo*[®] Dynamic PET with Myocardial Blood Flow, a new cardiac imaging software application for the industry-leading Biograph[®] PET•CT scanners that may have significant impact on the diagnosis of patients with advanced coronary artery disease (CAD) and specifically, with those patients with multi-vessel disease, or those who are asymptomatic. This new application can be seen at the Siemens booth 207, at the American Society for Nuclear Cardiology Scientific Session in Minneapolis.

According to the "Heart Disease and Stroke Statistics 2009 Update," published by the American Heart Association (AHA), one of every five deaths each year is attributed to CAD, making it the largest killer in the United States. At least 50 percent of those who die suddenly of CAD had no previous symptoms, and it has been reported that those with documented CAD have five to seven times the risk of having a myocardial infarction or dying than the general population.

Within this large CAD patient population, published clinical literature has estimated that 5 percent to 10 percent of CAD patients have balanced vessel disease, and up to 8 percent are asymptomatic at-risk patients. It is especially within this high-risk group that the new imaging application offers additional diagnostic value. *syngo* Dynamic PET with Myocardial Blood Flow is the first and only FDA-cleared software from a major vendor to offer a new method for quantitatively evaluating the extent of ischemia via high-performance PET•CT imaging and advanced applications.

"Direct healthcare costs are expected to continue to grow to more than \$90 billion for Coronary Artery Disease in the U.S. this year. Early diagnosis and more effective risk evaluation are essential if we are to capitalize on opportunities to improve the quality of care for at-risk patients,

and equally important, to manage the overall cost of care,” said Britta Fünfstück, CEO, Molecular Imaging, Siemens Healthcare. “Technological innovations, such as the ability to quantify blood flow in at-risk patients, continue to reinforce the critical role that molecular imaging can play in the delivery of high-quality, cost-effective healthcare.”

Quantifying the extent of the disease is important in the patient evaluation. In some circumstances, a conventional myocardial perfusion study may suggest that the perfusion is within normal ranges, but in fact, it may not be. Specific quantification of perfusion levels in each vessel can help improve the identification of multi-vessel disease and may mitigate the risk for misdiagnoses or underestimated risk factors.

The new *syngo* Dynamic PET with Myocardial Blood Flow application enables the more definitive measurement of myocardial blood flow during PET perfusion studies as compared to regular myocardial perfusion studies* (data on file). Combined with the advanced 3D PET performance of the Biograph family of PET•CT scanners, conventional static perfusion and the dynamic perfusion required for myocardial blood flow is now possible with single-injection protocols for virtually all patients with no additional scan time or patient dose. A variety of information on *syngo* Dynamic PET with Myocardial Blood Flow is available at the Siemens booth and on the company's Web site. At www.siemens.com/mi, a variety of supporting information can be found, including clinical case presentations, a review of clinical literature, clinical primers, scientific whitepapers, and product demonstrations with real clinical data.

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: www.siemens.com/healthcare.

*Siemens is the only vendor to offer an integrated myocardial blood flow solution (i.e., PET/CT scanner plus FDA-approved software). Of the major PET/CT vendors to date, only Siemens has released an FDA-cleared myocardial blood flow solution.

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