New Noninvasive CT Method to Reflect Myocardial Activation Patterns Using Technology from Qi Imaging Presented at ACC Meeting

*Poster Presentation Shows Promise in Effort to Simulate Invasive Electrophysiology Procedure*

San Francisco, Calif. (PRWEB) March 11, 2013 -- A potential new noninvasive computed tomography (CT) and software methodology, utilizing technology from Qi Imaging – a leader in medical image visualization and functional analytics – was presented at a poster session this past weekend during the annual American College of Cardiology (ACC) scientific session. Presented by Massachusetts General Hospital (MGH) researchers, the study, entitled “A New Method Using Cardiac CT Kinematics to Reflect the Activation Pattern Visualized with Electro-anatomical Map: Cardiac CT Phase Time Velocity Activation-Encoded Map,” shows promising results in an effort to simulate an electroanatomical map (EAM), which is an invasive electrophysiology (EP) procedure. MGH researchers coupled ECG-gated, multi-phase CT imaging with PhyZiodynamics software technology from Qi Imaging.

“Our goal was to emulate EP mapping, but use noninvasive CT imaging and novel CT velocity-based software to determine if we could reflect similar myocardial activation patterns,” said Quynh A. Truong, MD, MPH, lead author of the study who is a MGH cardiologist and assistant professor of medicine at Harvard Medical School. “The initial results indicate significant promise for detecting the site of latest activation, a goal that may be important for LV lead placement.”

Based on unique, patent pending imaging algorithms, Qi Imaging’s platform delivers deformable, voxel-to-voxel registration enabling unprecedented visual acuity and functional analysis of multimodality imaging parameters. PhyZiodynamics, an advanced 4D processing system, allows the automated registration of DICOM-based modality images into true fidelity 3D and 4D organ data sets which can be interactively interrogated throughout the entire structure while either still or in motion. It enables highly accurate motion coherence and reproducible functional analytics providing the gateway to next generation imaging analytics.

“We believe with further validation we could potentially have a non-invasive alternative to EAM and provide a CT-based strategy to guide LV lead placement to target regions of most delayed activation and avoid regions of myocardial scar,” said Truong. “This would provide a personalized cardiac resynchronization therapy approach with the hopes of reducing patient morbidity and mortality risk.”

About Qi Imaging LLC

Founded in 1998 and headquartered in Silicon Valley, Qi Imaging is a recognized leader in functional visualization and analysis software to benefit physicians, patients and healthcare specialists. As a medical imaging company dedicated to advanced, intuitive clinical tools across the enterprise, Qi Imaging is developing sophisticated applications for efficient physiology and disease analysis, and surgical planning. A member of the NantWorks family of companies, Qi Imaging is a part of a convergence of a wide range of digital technologies to transform scientific research and healthcare, and to build an integrated evidence-based, personalized approach to the delivery of care and the development of next generation diagnostics and therapeutics. For further information, visit [www.qiimaging.com](http://www.qiimaging.com)
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