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STUDY PRESENTED AT THE ASE 2017 DEMONSTRATES ECHOINSIGHT® STRAIN IMAGING TO PROVIDE ACCURATE ANALYSIS WITH CONTRAST-ENHANCED ECHOCARDIOGRAPHIC STUDIES

Epsilon Imaging Exhibiting at the American Society of Echocardiography (ASE) 2017 Scientific Sessions Currently Underway in Baltimore, Maryland

Ann Arbor, MI, June 5, 2017 – Epsilon Imaging, a visualization and analysis software provider transforming cardiac diagnostic workflow, today announced a study using EchoInsight was presented at ASE 2017 demonstrating increased utility with contrast-enhanced echo studies. Performed by a group from the University of Chicago, the study indicated EchoInsight to be accurate in assessing contrast-enhanced echo with its proprietary software, EchoInsight, providing global longitudinal strain (GLS). Epsilon Imaging is showcasing its utility with contrast-enhanced echo studies, its newest application – EchoInsight Full Heart among other features in booth 400 at the Baltimore Convention Center, currently underway in Baltimore, Maryland.

"GLS is a valuable index for assessing cardiac function and is advocated by the ASE chamber quantification guidelines and recommendations for monitoring adult oncology patients undergoing chemotherapy. Contrast agents are commonly used to improve endocardial visualization. However, no commercial speckle tracking software has been able to measure strain in contrast-enhanced images," said Roberto Lang, MD, director of Noninvasive Cardiac Imaging Laboratories at the University of Chicago Medicine. "This study is encouraging as we found EchoInsight to be feasible and provide accurate GLS for improved cardiac function assessment with contrast-enhanced studies."

The study, "Feasibility of Global Longitudinal Strain Measurements in Contrast-Enhanced Images," was presented by Lang, Roberto, Mor-Avi, Victor and Medvedofsky, Diego, et al. from the University of Chicago. The methodology of the study included 26 patients referred for a contrast-enhanced echo study, because of suboptimal image quality. Half the manufacturer recommended dose of a commercial contrast agent (Definity/Optison) was used to provide partial contrast enhancement with lower bubble density than typically used for LV opacification. Higher than normal mechanical indices (0.6-0.7) were used for imaging. GLS was measured with EchoInsight at midsystole in the left ventricle (LV) 4-chamber view on both contrast-enhanced and non-enhanced images. Manual corrections were performed as needed to optimize boundary tracking throughout the cardiac cycle. The study resulted with the algorithm failing in three patients with hyperdynamic LV function, due to inadequate contrast enhancement, and manual corrections were needed to optimize tracking with contrast in all remaining 23 patients. GLS measurements were in good agreement between contrast and non-contrast images (r=0.84) in University of Chicago's cohort of patients with a wide range of GLS values.

About Epsilon Imaging
As a provider of workflow enhancing solutions for cardiology, Epsilon Imaging is transforming cardiac diagnostic workflow with a vendor neutral suite of visualization and analysis software applications designed for echocardiography. EchoInsight provides clinical applications for improved quantification of the heart with clinical strain imaging. Applications assist clinicians to enhance, standardize, and streamline interpretation and monitoring of echo studies. Learn more by visiting epsilon-imaging.com.

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