EPSILON IMAGING

EPSILON IMAGING ANNOUNCES STUDIES PRESENTED AT ACC '15 SCIENTIFIC SESSIONS DEMONSTRATE IMPROVED QUALIITY IN ASSESSMENT OF HEART FUNCTION WITH ECHOINSIGHT

Company Showcasing EchoInsight Visualization and Analysis at ACC '15 in Booth 717, Currently Underway in San Diego, CA

SAN DIEGO, CA , March 15, 2015 – Epsilon Imaging, Inc., a visualization and analysis software provider transforming cardiac diagnostic workflow, today announced four studies were presented at the ACC' 15 Scientific Sessions; these studies all demonstrated improved quality in assessment of heart function with EchoInsight visualization and analysis.

ACC '15 Research Studies include:
 "**Simultaneous Assessment of Longitudinal Strain in All 4 Cardiac Chambers: A New Method to Characterize Cardiomyopathy,"** presented by Karima Addetia, MD, Masaaki Takeuchi, MD, et al. from the University of Chicago Medicine and University of Occupational and Environmental Health. The study analyzed 109 normal subjects and 62 patients with dilated cardiomyopathy using apical 4-chamber views with echo that included the left and right ventricles and both atria. 2D speckle tracking was used in all 4 chambers in the same cardiac cycle with EchoInsight to obtain longitudinal strain. The study concluded simultaneous measurement of longitudinal strain provides new insight into inter-chamber relationships and may prove useful in evaluating cardiomyopathies.

 "Left Atrial Strain Predicts Atrial Fibrillation Recurrence in Patients with Paroxysmal Atrial Fibrillation and Preserved Ejection Fraction Treated with Catheter Ablation," presented by Mislav Vrsalovic, MD, et al. from the University of Michigan. This study investigated novel echo strain parameters as predictors of outcome in atrial fibrillation patients treated with radiofrequency catheter ablation in 110 patients. Left atrial (LA) and ventricular (LV) global longitudinal strains were measured with 2D speckle tracking using EchoInsight. Patients were followed for atrial fibrillation recurrence after catheter ablation. The study concluded LA strain by 2D speckle tracking echo is a strong and independent predictor of atrial fibrillation recurrence after catheter ablation therapy in patients with paroxysmal atrial fibrillation and preserved EF.

"Right Ventricular Longitudinal Strain: A Superior Measure of Outcomes in Patients with Pulmonary Arterial Hypertension," presented by Karima Addetia, MD, et al. from the University of Chicago Medicine. This study compared free wall longitudinal strain of the right ventricle (RV) together with other 2D echo parameters in 93 patients. In addition, measurements were assessed for predicting all-cause mortality in pulmonary arterial hypertension patients. TAPSE (M-mode) and S' (pulsed-wave Doppler) were measured in the basal segment of the right ventricular free wall. Fractional area change (FAC) and free wall longitudinal strains were measured using EchoInsight. The study concluded that RV free wall longitudinal strain is more predictive of all-cause pulmonary arterial hypertension mortality over TAPSE, S' or FAC and should be included in 2D echo protocols when evaluating and managing these patients.

"Right Ventricular Global and Regional Function as Assessed by Two-Dimensional Strain Imaging in Patients with Hypertrophic Cardiomyopathy," presented by Alexandros Briasoulis, MD, et al. from the Wayne State University/Detroit Medical Center. This study analyzed RV strain in patients with left ventricular hypertrophy secondary to either hypertrophic cardiomyopathy or hypertension without pulmonary hypertension. Echo was performed in 32 patients with hypertrophic cardiomyopathy, 21 patients with hypertension without pulmonary hypertension, and 11 healthy subjects. EchoInsight was used for segmental longitudinal strain analysis in apical views. RV global longitudinal strain was calculated by averaging septal and right free wall strains. An RV global longitudinal strain cut-off value of >-14.9% differentiated hypertrophic cardiomyopathy and hypertension without pulmonary hypertension with a 84%

sensitivity and a 95% specificity. The study concluded RV strain parameters are impaired in patients with hypertrophic cardiomyopathy. Assessment of two-dimensional RV strain parameters could help differentiate between hypertrophic cardiomyopathy and hypertension without pulmonary hypertension.

View full abstracts: http://www.abstractsonline.com/pp8/#!/3658/.

About EchoInsight Visualization and Analysis

By delivering valuable echo tools designed to improve quantification of the heart, EchoInsight improves diagnostic confidence, standardization and analysis efficiency. Designed for the clinical environment, EchoInsight visualization and analysis meets today's clinical needs and healthcare system challenges:

- Recent ASE guidelines recommend strain imaging as a important parameter when assessing heart function; EchoInsight offers robust, clinical strain imaging for improved confidence
- EchoInsight meets the ACVI/ASE/Industry Task Force standards for 2D speckle tracking
- With one trace, users receive automated quantification including linear, volumetric and area measurements based on guidelines for improved efficiency and standardization
- Fast and intuitive features for improved analysis, interpretation and trending
- DICOM structured reporting for improved patient management
- Vendor neutral platform

Attend an educational webinar, "Improving Patient Management in Cardio Oncology With Latest Recommendations and Strain Imaging," with Dr. Nausheen Akhter, Northwestern Hospital and Medical Center on May 13, 2015 at 12:00-1:00 PM CT.

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. Initial applications include cardio oncology, RV and stress echo. Learn more by visiting epsilon-imaging.com.

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