



PRESS RELEASE  
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**EPSILON IMAGING ANNOUNCES STUDIES PRESENTED AT ASE 2015  
SCIENTIFIC SESSIONS DEMONSTRATE IMPROVED QUALITY IN ASSESSMENT  
AND MONITORING OF ECHO WITH ECHOINSIGHT**

***Company Showcasing EchoInsight Visualization and Analysis at ASE 2015 in Booth  
615, Currently Underway in Boston, MA***

Boston, MA , June 15, 2015 – Epsilon Imaging, Inc., a visualization and analysis software provider transforming cardiac diagnostic workflow, today announced four studies were presented at the ASE 2015 Scientific Sessions demonstrating improved quality in assessment and monitoring using EchoInsight visualization and analysis software. Company is exhibiting at ASE 2015, currently underway in Boston (booth 615).

**ASE 2015 research studies include:**

**“The Use of Two-Dimensional Speckle-Tracking Strain in Monitoring Cardiotoxicity in Older Patients with Acute Myeloid Leukemia (AML),”** presented by Nausheen Akhter, et al. from Northwestern Memorial Hospital. The study analyzed 25 AML patients enrolled in the ECOG2906 study (standard cytarabine and daunorubicin vs. clofarabine [Genzyme/Sanofi]). Echo studies were performed before and after induction of therapy. 2D speckle-tracking echo was performed using EchoInsight. The study concluded four-chamber longitudinal strain can be used to follow cardiotoxicity in patients undergoing induction 7+3 chemotherapy. Patients treated with 7+3 were noted to have both subclinical and clinically significant changes in LV function. These changes were not seen in the clofarabine group. These findings suggest that changes in LV function occur shortly after exposure to relatively low doses of anthracycline in older patients with AML.

**“Relation between Left Atrial (LA) Deformation Imaging in Varying Degrees of Left Ventricular (LV) Diastolic Dysfunction (DD),”** presented by Amita Singh, Karima Addetia, Roberto Lang, et al., from the University of Chicago Medicine. In this study 100 age-matched patients with LV EF >50% and no significant valvulopathy were assessed, including: 25 normal subjects (NL) and 3 groups of 25 patients each with grades 1, 2 and 3 Diastolic Dysfunction, as defined by ASE guidelines. Mitral inflow E velocity, E-wave deceleration time, A-velocity, lateral and medial mitral annular E' velocities, E/(mean E'), LA volumes (biplane Simpson), and 2D speckle tracking derived LA longitudinal strain (EchoInsight) were measured throughout the cardiac cycle (and atrial stiffness defined as (E/E'/peak LA strain)). The study concluded in subjects with LV DD and preserved EF, changes in LA deformation and stiffness with worsening DD reflect a progressive decline in LA function, which is not as easily identified by conventional Doppler and LA volume measurements.

**“Left Atrial Strain Predicts Atrial Fibrillation Recurrence in Patients with Persistent Atrial Fibrillation and Preserved Ejection Fraction Treated With Catheter Ablation,”** presented by Mislav Vrsalovic, Theodore Koliass, et al. from University of Michigan. 92 patients with persistent atrial fibrillation (AF) and preserved ejection fraction (EF) underwent first catheter ablation (CA) and echo ≤ 30 days prior to CA. Left atrial and ventricular global longitudinal strains (GLS) were measured with 2D speckle tracking (EchoInsight), and patients were followed for AF recurrence. The study concluded left atrial GLS is a strong and independent predictor of AF recurrence after first CA therapy in patients with persistent AF and preserved EF.

**“Echocardiographic Evaluation Of Right Ventricular Function in Patients with McConnell’s Sign: The Added Benefits of Right Ventricular Free Wall Strain,”** presented by Anuj Mediratta, Karima Addetia, Roberto Lang, et al. from University of Chicago Medicine. 156 transthoracic echocardiogram (TTE) studies were reviewed with McConnell’s sign (MS) and a diagnostic study (CT or V/Q scan) was given within 48 hours to evaluate for acute pulmonary embolism (PE). Echo images were analyzed with EchoInsight to measure RV fractional area change (FAC), tricuspid annular plane systolic excursion



(TAPSE), early tricuspid annular velocity S' and 2D speckle-tracking derived RV free-wall longitudinal strain (LS) and segmental free-wall strain of apex, mid and basal RV. The study concluded that patients with MS have reduced global RV free wall strain, segmental strain including the apex. Qualitative assumption of normal RV apical function in MS is likely related more to left ventricular apex contractility with tethering of the RV apex rather than normal RV apex function.

### **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:

- ASE guidelines now recommend strain imaging as a important parameter when [assessing heart function](#) and when [monitoring oncology patients during and after therapy](#); EchoInsight offers robust, clinical strain imaging for improved confidence in analysis and interpretation.
- 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. [Research is demonstrating EchoInsight to be an accurate and efficient approach when compared to conventional measurements.](#)
- Fast and intuitive features for [improved analysis, interpretation and trending](#)
- DICOM structured reporting for a seamless workflow and integrated 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 August 26, 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](http://epsilon-imaging.com).