

pECHO: Easy to Use Smartphone App for Assisting in Transesophageal Echocardiography Exam

Summary

Transesophageal echocardiography (TEE) is a test that uses high-frequency sound waves to create images of the heart. It provides more detail than a standard echocardiogram. Vanderbilt researchers have created a software that creates an easy to follow, step-by-step procedure for a transesophageal echocardiography exam.

Addressed Need

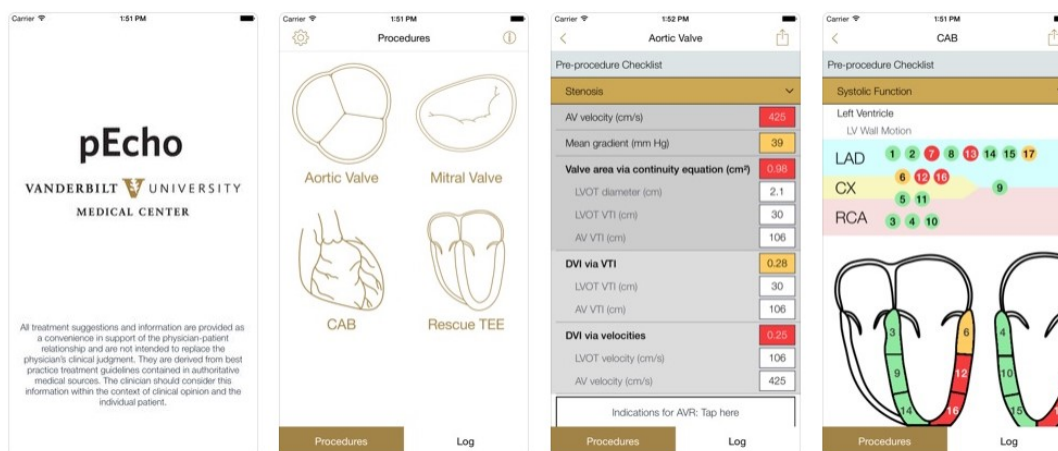
The pECHO application assists echocardiographers in performing a TEE exam. It creates a step-by-step procedure to follow to ensure the exam is performed safely and correctly. Each exam can be logged so that the user can review previous cases. The application also allows the user to perform calculations and review recommendations based on examinations of the cardiac system.

Unique Features

- ◇ Designed for perioperative environment
- ◇ Provides step-by-step procedure checklists
- ◇ Based upon transesophageal echocardiography (TEE) exam

Technology Development Status

The first version of the perioperative ECHO application is available on the [App Store](#) on iOS devices. Further revisions to the software are ongoing, and updates will be made.



CTTC CONTACT:

Masood Machingal, PhD
(615) 343-3548
masood.machingal@vanderbilt.edu

INVENTORS:

Bantayehu Sileshi, M.D., Marc Gutierrez
Department of Anesthesiology
Vanderbilt University Medical Center

VU REFERENCE: VU 16001

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