



LVivo Cardiac Toolbox on NeuEcho Empower Ultrasound Users with Al

Neusoft has partnered with DiA to make its AI-based cardiac ultrasound LVivo Toolbox available on the NeuEcho ultrasound system.

Cardiac ultrasound imaging analysis is usually done through either visual estimation or manually, making the process subjective, error-prone and highly dependent on the user's experience.

LVivo Al solutions - Immediate results, in just one click

LVivo cardiac solutions provide automated AI-based analysis to support ultrasound users with varying levels of experience, resulting in reduced variability and increased efficiency and accuracy throughout the analysis process.





Objective & Automated

vs. subjective manual or visual analysis, supports clinicians with varying levels of experience



Shorter measurement time

Quick results, reduces load on medical staff and bottlenecks



At point-of-care

Easy patient monitoring at bedside and minimized risk of exposure to infection



Strain reimbursement

Physicians in the USA can report and bill for strain as of Jan 2020 (CPT code +93356)



No ECG required – to run LVivo Al analysis

LVivo EF

Quantified Ejection Fraction Analysis in One Click

Ejection fraction (EF) is a key indicator for global function of the left ventricle (LV) and a key driver of clinical decisions.

Clinical value:

Measured in patients presenting with:

- shortness of breath
- suspected heart failure
- chest pain
- cardiogenic shock



LVivo EF

After acquiring 4CH and/or 2CH, LVivo EF immediately delivers analysis, supporting single clips and biplane analysis for each beat separately to present:

- Edge detection of the LV endocardial border in motion
- Ejection Fraction (EF)
- End-Systolic Volume (ESV)
- End-Diastolic Volume (ED)
- Global Longitudinal Strain (GLS)
- Stroke Volume (SV)

Key features

- Beat Selection
- Manual border adjustment
- Manual initiation in case of failure

"The use of LVivo reduces the variability associated with subjective visual ultrasound analysis and can accurately and effectively support users in their decision-making process."



Ziv Dadon, M.DCardiology Department

LVivo AI solutions on the frontline

How COVID-19 affects the heart

Recent data from COVID-19 frontlines show that heart issues were a frequent cause of death for 50% of COVID-19 patients.¹

ASE and EACVI recommend performing limited echo exams on COVID-19 patients at point-of-care, to monitor patients' Left Ventricle and detect dysfunction. ², ³

LVivo AI solutions help to:



Automated workflow enables quick analysis of cardiac function



Minimized patient contact and risk of infection



Shorter measurement time reduces patient bottlenecks

The new normal in POCUS

As the number of COVID-19 cases decrease, POCUS procedures will increase. New protocols recommend minimizing contact with patients and shortening scan time to minimize risk of infection.

LVivo Toolbox automates the cardiac analysis process, with objective and reproducible results

"LVivo EF makes it possible for clinicians to quickly, accurately and safely analyze COVID-19 patients' cardiac function at bedside."

Evan (Avi) Alpert, M.D
Department of Emergency Medicine



- Shi S, Qin M, Shen B, et al. Association of Cardiac Injury With Mortality in Hospitalized Patients With COVID-19 in Wuhan, China. JAMA Cardiol. Published online March 25, 2020. doi:10.1001/jamacardio.2020.0950
- ASE statement on COVID-19, March 2020
- COVID-19 pandemic and cardiac imaging: EACVI recommendations on precautions, indications, prioritization, and protection for patients and healthcare personnel, European Heart Journal - Cardiovascular Imaging, April 2020

