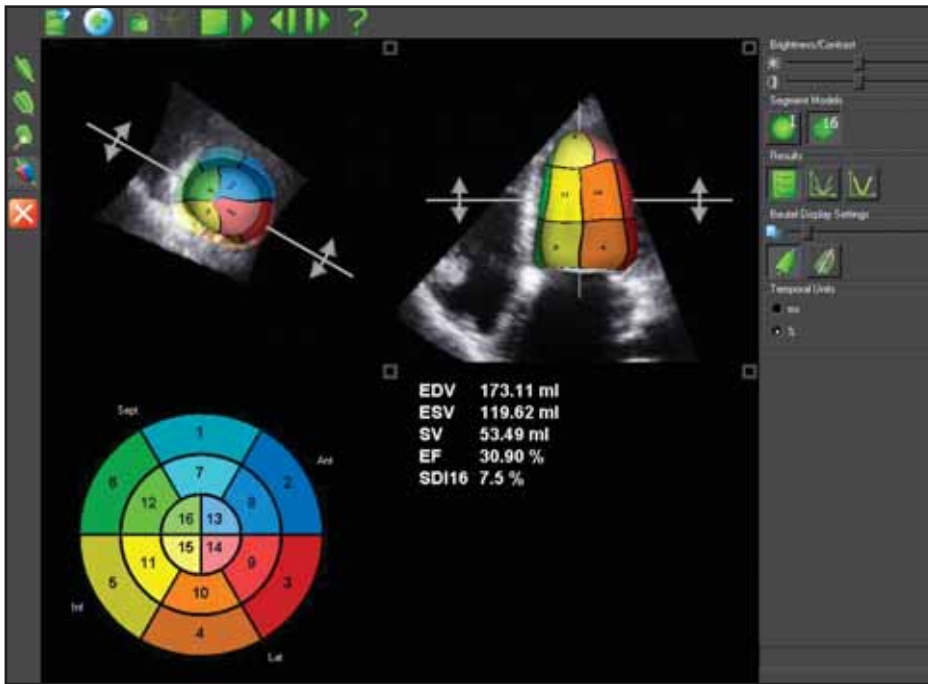


4D LV volume

Easy, fast and accurate assessments.

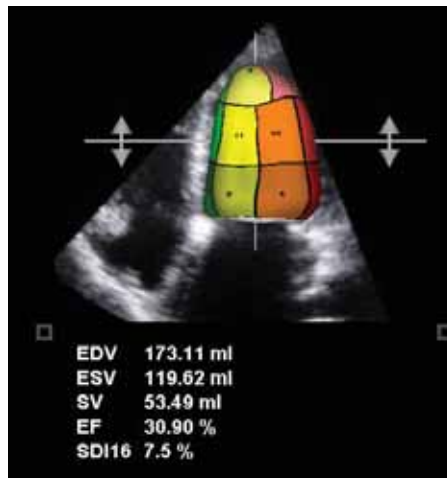


Quantifying left ventricular volumes

Echocardiography is reaching new dimensions with Real-time 4D imaging and quantification. Now EchoPac™ Dimension gives users the ability to quantify volume information, increasing their clinical confidence by providing clinically relevant information for routine patients.

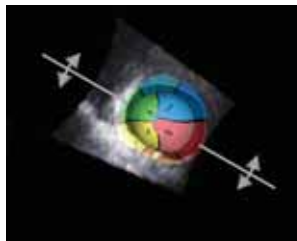
Using the exceptional real-time full volume image quality produced by Vivid™ 7 Dimension, the 4D LV volume tailored package from TomTec Imaging Systems can provide a full assessment of the left ventricle, free of geometric assumptions and shape, in less than a minute.

4D LV volume features advanced volume finding algorithms for an easy, fast, accurate and highly reproducible functional analysis of the left ventricle.



4D LV volume rendering

4D LV volume tracks the endocardial border of the ventricle in three dimensions, thus providing a model that represents the true geometry of the ventricle instead of relying on shape assumptions. Stroke Volume and Ejection Fraction are derived from those measurements with higher accuracy than 2D methods allow. Using a 16 segment model a subdivision of the ventricle is performed for regional volumetric analysis. Not only can resting transthoracic information be analyzed, but stress echo datasets can be analyzed as well from the Vivid 7 Dimension.



4D LV volume analysis:

The following global and regional measurements are derived:

- EDV — End Diastolic volume
- ESV — End Systolic volume
- SV — Stroke volume
- EF — Ejection fraction

*Reproducibility and accuracy of 3D Echo have been shown by Carly Jenkins et al. JACC, 2004, Vol. 44, No. 4, 878-886

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