

CT Cardiac Function

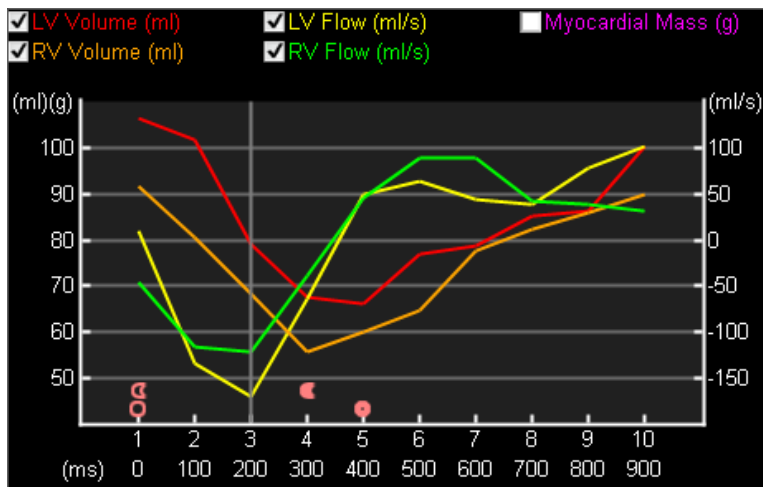
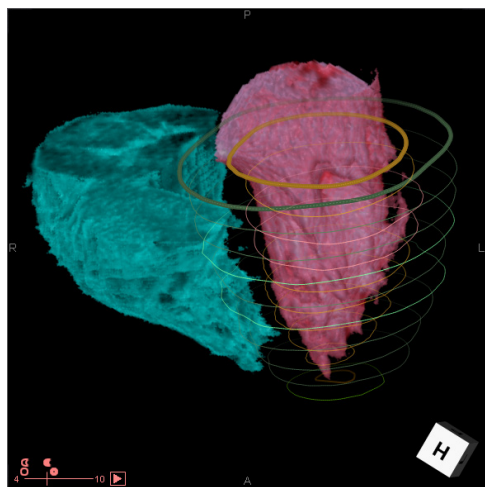
FUNCTIONAL INDICES FOR BOTH VENTRICLES

The Cardiac Function application automates several key functions and calculations for functional evaluation of the left ventricle from contrasted multi-phase CT studies. It evaluates the full data set to determine the end systolic and end diastolic phases, then endocardial and epicardial contours are automatically extracted and adjusted to identify the left ventricular myocardium. Reported values include ejection fraction, end diastolic and systolic volume and index, stroke volume and index, cardiac output and index, and LV myocardial mass. Cine series aid in capturing wall motion in the short axis, horizontal and vertical long axis views. Polar maps provide 17-segment characterization of wall motion, thickness, thickening and regional EF.

An available feature puts new algorithms to work to provide the same results for the right ventricle, with results for both ventricles compared side-by-side for global evaluation of systolic function.

Key features:

- Automated left and right ventricle segmentation with myocardial contours
- Myocardial contour, axis, and valve plane editing tools with automated interpolation
- Ejection fraction, EDV, ESV, SV, CO, CI, myocardial mass, peak filling rate, peak ejection rate calculations
- Wall motion and thickness color sector maps
- Volume, flow and myocardial mass analysis graphs
- Reworked user interface and screen layouts for increased workflow efficiency



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