

CT Dynamic Myocardial Perfusion

Full Access to Visualization of Perfusion

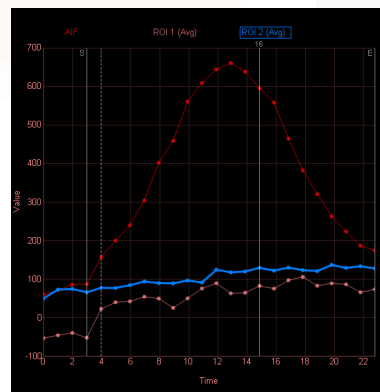
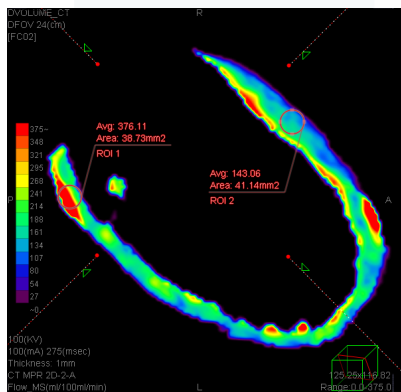
Using contrast distribution as an analog for myocardial blood perfusion, cardiac CT volumes scanned at the same portion of the cardiac cycle are analyzed for LV intensity changes over the acquisition period.

Non-rigid registration is supported and encouraged, to obtain the highest quality results. With the AIF reference placed in the aorta, ROIs can be placed on ACS or MPR slice data, or on corresponding perfusion maps.

Perfusion maps have manually and automatically selectable display ranges, and can demonstrate blood flow (by maximum slope method) or blood volume (by area under the curve).

Key features:

- Perfusion analysis of dynamic CT data
- Myocardial Blood Flow (maximum slope) and Blood Volume (area under the curve)
- Non-rigid registration
- ACS or MPR displays
- Graphic and tabular display of data



ROI (Area)	Image	Average	SD	Max	Min
OI 1 8.73)	Original	82.49	62.68	143	-229
	Flow_MS	376.11	193.99	762.05	59.93
OI 2 1.14)	Original	129.31	17.93	172	82
	Flow_MS	143.06	23.26	197.51	63.15

LV Myocardial perfusion displayed in an MPR view with placement of ROIs. Graphed ROI data with tabular presentation of data below.

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