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CT Myocardial Perfusion

Visualization of the TPR

Using stress and rest data of heart scanned with a contrast material, this protocol rapidly provides polar maps and 3D fused images to review the Transmural Perfusion Ratio (TPR) of LV myocardial blood flow.

Axis and contours are set automatically, with adjustment overrides available. Set the number of slices for analysis, then processing is automated to deliver a VR view of both stress and rest phrases, each including the segmented coronary anatomy on top of the parametric overlay for better visualization of the relationship between a problem area and the artery feeding it.

The same data is also presented as short axis views of the LV and standard 17-segment polar projections of the LV, both with parametric overlay of the TPR values.

Key features:

- Rapid, automatic LV and coronary artery extraction
- Fusion display of LV myocardium and coronaries, with color overlay of perfusion data
- Polar maps of Stress and Rest phase perfusion
- Axis, contours, and number of slices for analysis are editable
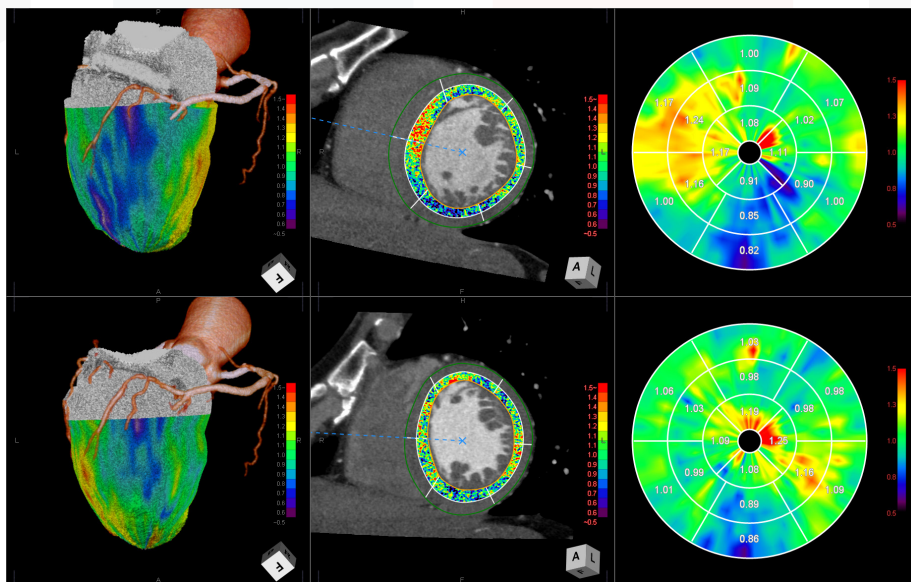
Demonstration of perfusion differences between Stress (top) and Rest (bottom) as calculated using the TPR, in the context of anatomical representation of the RCA in this UI screen capture

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