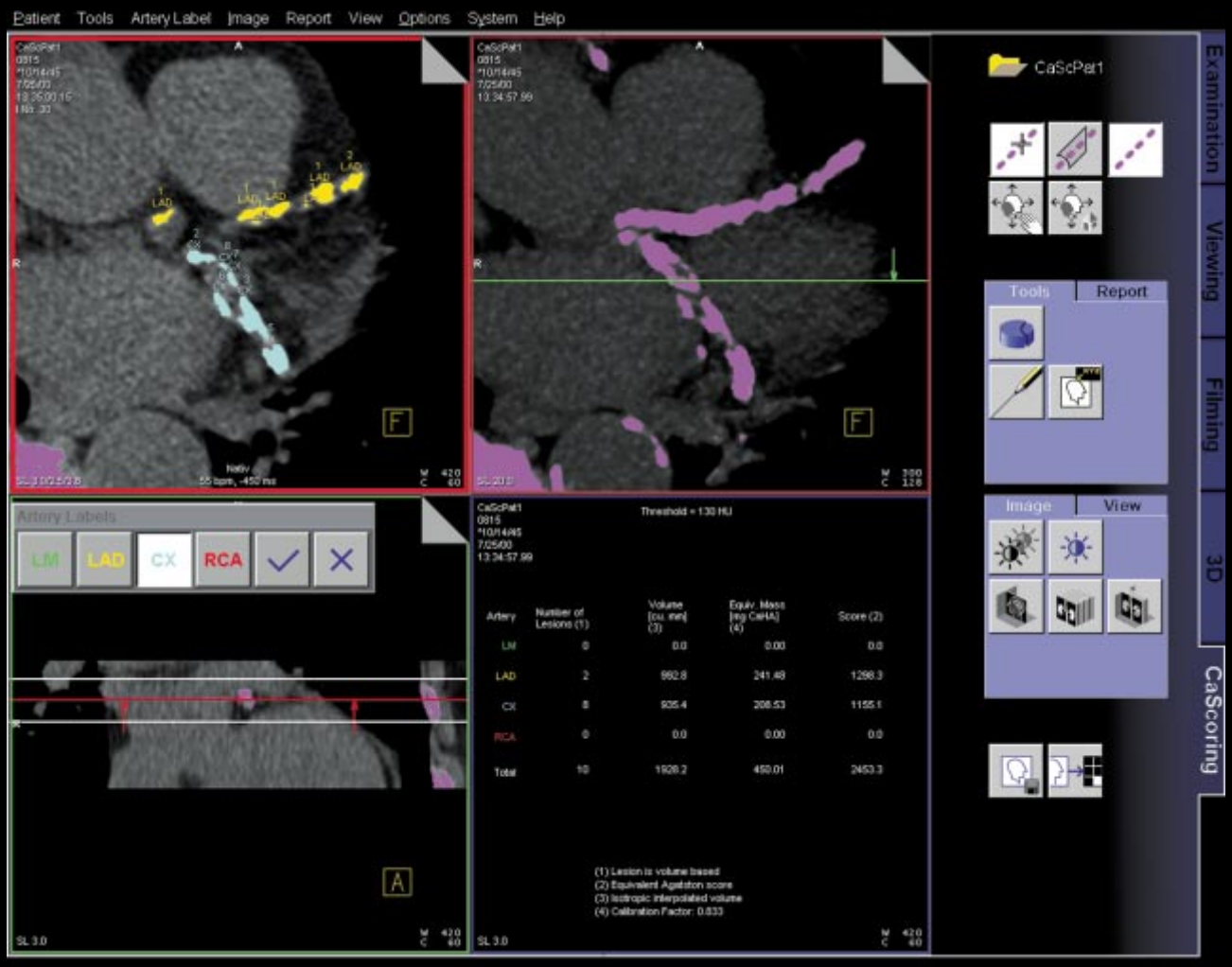
syngo Calcium Scoring



syngo Calcium Scoring*

Coronary calcification visualization and quantification for detection and follow-up of coronary artery disease

*For best results, the Calcium Scoring option should be installed together with HeartView CT on the CT Scanner.

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Features & Benefits

Calcium Scoring is an evaluation software used for quantifying calcified coronary lesions. The data is based on low dose acquisition with either ECG triggered sequence or retrospectively gated spiral.

Earlier studies with conventional subsecond CT scanners have shown that the Calcium Scoring results can be used to closely follow changes in Coronary calcium load.

General

- Evaluation on a separate *syngo* task card on the user interface
- Correlation image display in different planes using maximum intensity projection (MIP) and multi-planar reformats (MPR)
- Blow-up display for easier identification of small lesions

Evaluation

- Scoring is facilitated by selection and automatic growing tools for defining lesions in the main coronary branches (RCA, LM, LAD, CX)
- Freehand ROI definition of lesions in addition to the seeding method
- 3D edit for separation and modification of lesions within a defined volume (depth in mm) or on 2D-slices
- Default threshold of 130 HU for score calculation can be modified
- Online display of results in a separate segment :
  – Area (in mm^2)
  – Peak densitiy (in Hounsfield Units)
  – Volume (in mm^3)
  – Calcium mass (mg Calcium Hydroxyapatite)
  – Score (Agatston method)

Documentation

- Generation of HTML report including site-specific information, free text and clinical images, and saving it on floppy and/or printing it
- Interface to user-defined reference table can be used for risk stratification and the corresponding risk percentile information can be included in the report
- Easy and fast report configuration for customized hospital/office information on the final report
- Printing results on laser film, paper printer or saving into a database

syngo speaking