

VesselMASS Research Edition v2012 Product Specification Sheet

VesselMASS is the analytical software tool developed by the LKEB and distributed by Medis Specials for quantitative analysis of vessel wall MR imaging studies.

Data import

- DICOM image data from any local storage media (Hard disk, USB disk, CD/DVD, network share)
- Vendor independent solution

Viewing

- Optimized screen layouts for visualization of individual images or stacks of images
- Synchronized viewing of multi-contrast imaging protocols
- Co-registration for multi-contrast imaging protocols
- Basic image view manipulation (Window/level, zooming, panning)
- User defined ROI's, image annotation, caliper measurements

VesselMass analysis workflow

- Import of 2D and 3D datasets, multi contrast black blood sequences, 3D bright blood (Time of Flight/MRA)
- Simple workflow for reformatting of loaded sequences to common geometry
- Semi-automatic lumen and outer wall contour detection.
- Semi-automatic in- and through-plane image registration
- Manual plaque component labeling
- Recall and edit ability at any point during the analysis (contours and registration)

VesselMass analysis results

- Vessel morphology (wall and lumen) parameters, including
 - Area, Volume, Diameter, Thickness
- Plaque characteristics
 - Volume of different components (lipid, calcium, hemorrhage, loose matrix, custom components)
 - Fibrous cap dimensions
- Signal intensities
 - Vessel wall and defined regions of interest

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Data export

- Reporting of all quantitative data using text format. Easy transfer to spreadsheet software using copy/paste or load text files in Excel.
- Customizable format of text report using user defined templates.
- Presentation of derived results using graphical format. Graphs can be saved as bitmap file (JPEG, TIFF, etc).

Requirements

- Support for Windows XP and Windows 7
- Runs on off the shelf hardware (4Gb+ internal RAM memory, installation size 500Mb, data repository depends on # of studies (Typically 100-150 Mb per study analyzed, 100 studies → 15Gb)
- DICOM connectivity is not included automatically. Ask for the possibilities

VesselMass RE is to be used for research purposes only, and not for primary diagnostics and direct patient care. It is developed at the Division of Image Processing, Department of Radiology, Leiden University Medical Center.

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