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Medis Suite CT

Cardiac diagnostics made simple.

Product Specification Sheet

M-MSP: Medis Suite Platform

- Support for Cardiac CT studies of all major CT vendors
- Access to Cardiac CT studies across the network
- Import of cardiac CT studies from local storage media (hard disk, USB, and CD/DVD)
- DICOM connectivity, receiving cases, query and retrieve, pushing results to PACS
- Centralized database, thick client solution possible with multiple clients
- JPEG2000 support
- Review series side by side, drag 'n drop series into the viewer, cross referencing tools, fast paging through series, simple caliper measurements
- Enhanced workflow, run multiple apps in parallel
- Loading of prior exams in parallel
- Enhanced clinical report, combining all measurements in a single report,snapshots, add comments, save as PDF, view in text format. Clinical XML and JSON output
- User log in
- Role Based Access Control
- DICOM SR output for results of Clinical applications
- User interface and User manual available in multiple language for the Clinical applications

M-MRA: 3D View App

- Viewing 3D MR and CT Angiography series, double oblique viewing, MPR, MIP, slabbed MIP, VR
- CPR (Curved Planar Reformatting)
- Efficient caliper measurements, including double distance measurement
- Sculpting (isolating custom volume of interest)
- Create reformats
- Add temporal resolution

M-CCT: QMass global function module

- Guided workflow
- LV and RV function analysis
- Global function analysis (Simpson's method) on short axis or transversal stack of cines
- Quantification of custom volumes, such as atrial volumes
- Area-length and Bi-plane volumetric analysis methods for long axis cines
- Semi-automatic contour detection for RV and LV
- "LiveContour" algorithm to quickly detect endocardial contours
- "Time-Continuous" contour detection
- Automatic exclusion of images in short axis based on information in long axis
- Auto-detection of papillary muscles and trabeculae with "MassK mode"
- Quantification of EDV, ESV, SV, %EF, CO, CI, indexed values (BSA and height), (time to) peak filling and ejection rate
- Various BSA calculation methods for indexed results
- NEW: Additional normal ranges papers based on MR studies added
- Calculations of z-scores in the report

M-MRM: QMass regional function module

- Analysis of regional parameters, such as wall motion, wall thickness, wall thickening and wall thicknesschanges over time
- Regional results are part of the XML and JSON report output

M-SRM: QStrain CT

- Quantify strain based on feature tracking in cardiac CT image series which can be reformatted to LAX or SAX, RV in 4CH, LA in 2CH or 4Ch and RA in 4CH
- Quantification of Global strain parameters: GLS, GCS, GRS and Fractional Area change
- Quantification of delta rotation
- Quantification of 16 segment AHA strain parameters: Strain, Strain Rate, velocity
- Quantification of RV segmental (septum and free wall) strain parameters: Strain, Strain Rate, velocity
- Generate results for endo, mid and epicardial wall
- The AHA segment model results are part of the XML and JSON output
- More extensively research report can be exported in XML and MS-Excel

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M-INW: QStrain Inward Displacement add-on

- Quantification of Inward Displacement (InwD) and Inward Displacement Index (InwId) allowing for objective evaluation of regional dysfunction
- Modality independent, works on CT as well as MR series

CTA Analysis for research use only

Workflow

- Fully automatic extraction of the complete coronary tree
- Semi-automatic editing of coronary tree
- Automatic labeling of the segments in the coronary tree with anatomical names
- Analyze multiple vessels at the same time
- A two step contour detection approach per vessel for both lumen and vessel contours.
- Longitudinal detection: provides quick overview of border and allows easy corrections which will propagate to the transversal step.
- Transversal detection: Based on the longitudinal contours and corrections
- Edit contours in longitudinal and transversal images simultaneously
- Flexible lesion detection and definition using synchronized views of the vessel data (stretched MPR, curved MPR, graphs).
- Simple contour editing workflow (2-steps)
- Automatic segment labeling for reporting and statistics

Result

- Lumen and plaque statistics:
  - Degree of stenosis (diameter and area)
  - Lesion length
  - Plaque burden
  - Plaque volume (per lesion and per vessel)
  - Vessel remodeling index
  - Mean plaque and lumen intensities
  - Fixed and adaptive thresholding methods for plaque characterization
  - Plaque characterization components according to Virtual Histology classification: Vessel segment labeling
  - Peri-Vascular Adipose Tissue (PVAT) analysis
- Data export:
  - All analysis results including coronary tree, contours, lesion parameters and vessel labels can be saved and reloaded again for reviewing and/or exporting
  - Easy data export for quantification data (Excel or copy-to-clipboard)
  - Batch processing of quantified parameters from multiple-studies into a single spreadsheet
  - Segment based
  - Lesion based
  - Slice based
  - Screenshots (jpeg, png, copy to clipboard, DICOM snapshots)
  - 3D visualization of plaque in 3D, export of lumen (.stl)

CTA PVAT (add-on)

- Peri-Vascular Adipose Tissue (PVAT) analysis

CTA 3D Workbench (add-on)

- 3D visualization of plaque in 3D, export of lumen (.stl)

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Available packages

Medis Suite CT

Packages

	Modules	Medis Suite CT Function	Medis Suite CT %EF, 3D View, CT Strain	QAngio CT Research Edition	QAngio CT Research Edition Extended
Clinical	3D Viewer	✓	✓		
	CT Function Global	✓	✓		
	CT Function Regional	✓	✓		
	CT Strain		✓		
	Inward Displacement				
Research	CT Plaque Research			✓	✓
	PVAT Research				✓
	3D workbench Research				✓

Legal Statements
Medis Suite CT is based on image processing algorithms, developed at the Division of Image Processing, Department of Radiology, Leiden University Medical Center, the Netherlands.
Medis is a registered trademark of Medis Associated BV.
Medis Suite MRCT has market authorization in the EU, US, UK, Switzerland, Australia, Japan, Korea and Canada.

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