

QAngio[®] MR



Accurately Quantifying Peripheral Vascular Morphology in 3D MRA Data

Half of the annual mortality in developed countries results from cardio-vascular diseases of which atherosclerosis is the main cause. New imaging techniques, such as Magnetic Resonance Angiography, help detect the location, and assess the severity and extent of the vascular disease.

Medis has developed QAngio[®] MR to provide medical specialists with software for performing quantitative analyses of vascular stenoses in straight peripheral vessels. The results of automatic analysis with QAngio[®] MR are highly accurate, reproducible and rapidly available.

QAngio[®] MR can be used in the daily clinical evaluation of peripheral vascular diseases, in clinical trials and in research. It analyzes 3D MRA data sets.

QAngio[®] MR Benefits

- Confirms visual findings with accurate, objective results
- Minimizes time spent on interpreting MRA data
- Enhances accuracy of results through use of 3D data

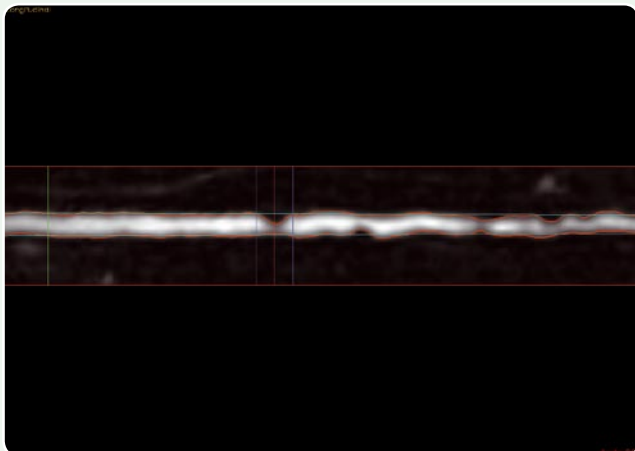
QAngio[®] MR Features

- Accurate, fast, and reproducible segmentation and quantification of 3D MRA data
- Automatic path line detection along the target segment
- Automatic detection of 3D vessel contours, perpendicular to the path line
- MIP, curved MPR and cross-sectional MPR views
- Caliper and angle measurements
- Automatic calculation of minimum lumen diameter (MLD) and minimum lumen area (MLA)
- Calculation of maximum stenosis diameter and area
- Calculation of stenosis length and relative stenosis diameter and area
- Quick and easy reporting



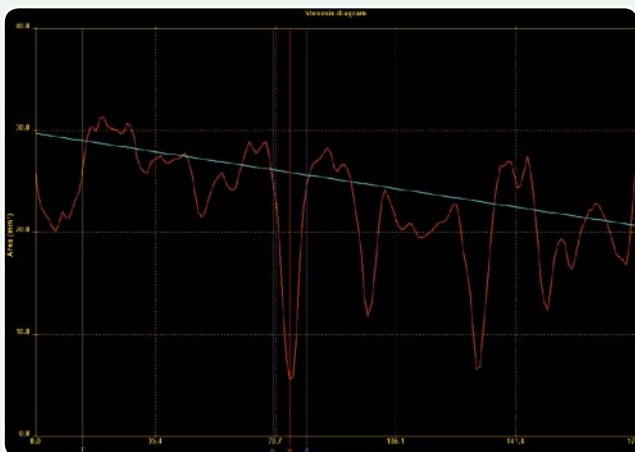
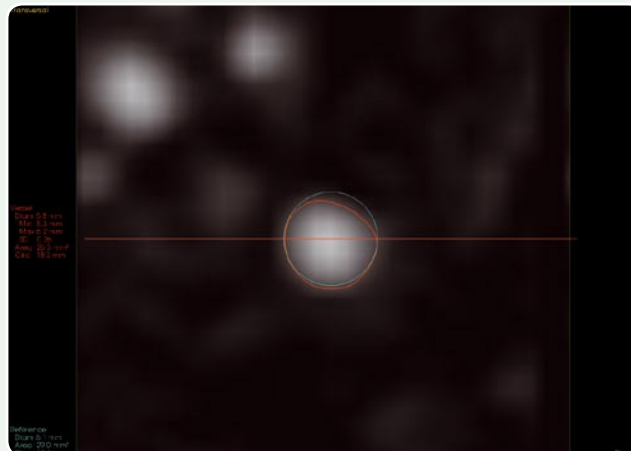
Longitudinal View

- Curved MPR of the segmented vessel indicating the detected contours and the reference contour.
- 360° viewing of the vessel.



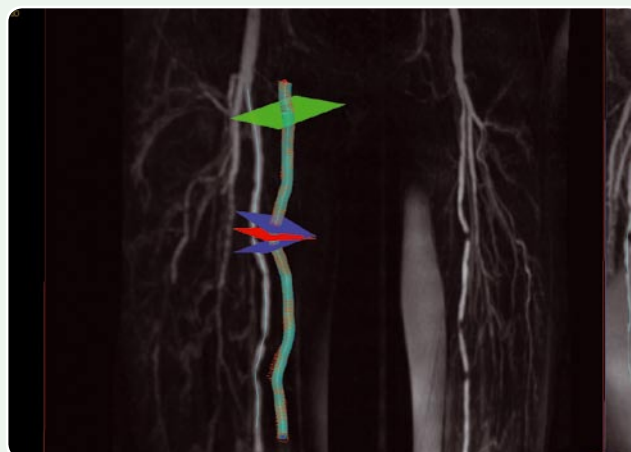
Transversal View

- Cross-sectional MPRs over the entire segment, showing area, derived diameter and circumferential values for the detected contours and reference contours.
- The red line shows the axis of the longitudinal view.



Stenosis Diagram

- The stenosis diagram shows a graph of the area distribution of both the detected contours and the reference contour over the entire segment. From these data, the location, severity and extent of the stenosis are derived automatically.



3D View

- 3D model of the segmented vessel shows the detected contours, reference contour, distal and proximal end of the stenosis, the position of maximal % area stenosis and the position of the actual cross-sectional slice.

QAngio is a registered trademark of Medis medical imaging systems in the Benelux.

QAngio® MR is based on advanced image processing algorithms developed at the Division of Image Processing, Department of Radiology, Leiden University Medical Center.

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