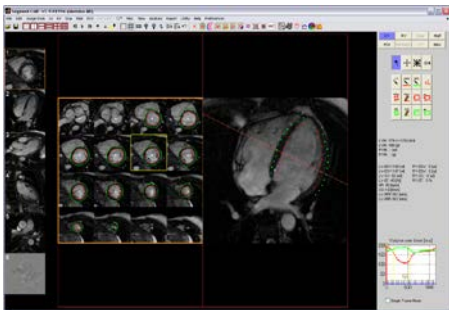


Segment CMR is a validated vendor independent software for analysis of cardiovascular magnetic resonance images.

” Automatic segmentation is superior to anything I’ve ever seen – extremely reproducible, quick, and easy to use. It is far superior to anything else on the market.”

Alexander Chernobelsky, MD,
Doctor at Medical Specialists Palm Beach, Florida, USA



Viewing

- Ease of use
- Multi panel
- Synchronized cine loops

Automatic Segmentation

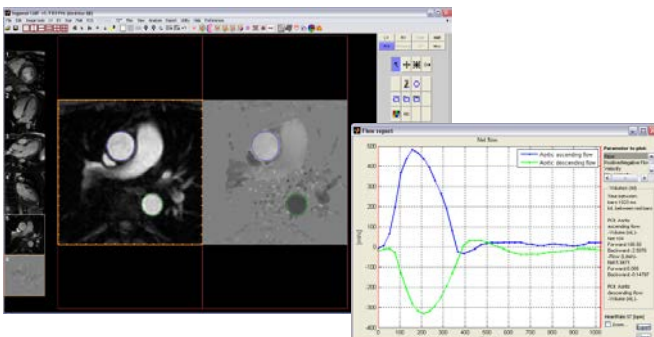
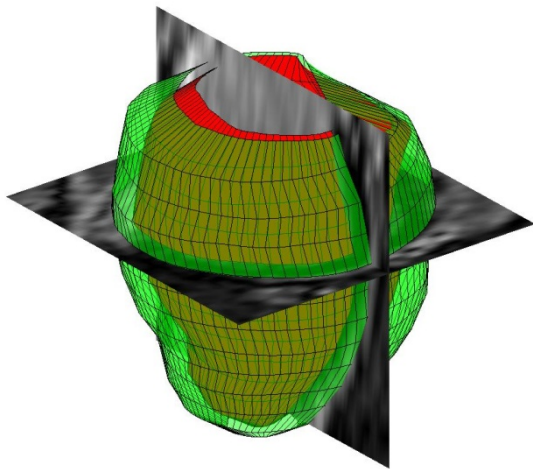
- Fast, accurate and reproducible
- Fully automatic LV segmentation
- Semi-automatic RV segmentation
- Easy manual interaction tools
- Include or exclude papillaries

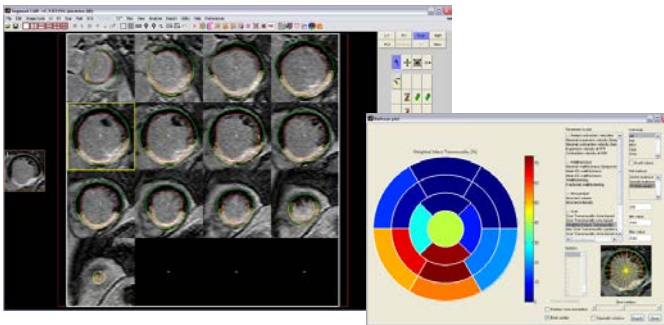
Global function

- Myocardial mass
- Ejection fraction
- End-diastolic volume
- End-systolic volume
- Cardiac output
- Stroke volume

Flow

- Automatic vessel tracking
- Flow quantification
- Regurgitant fraction analysis
- Shunt analysis





Viability

- Fully automated segmentation
- Partial volume effect compensation
- Extensively validated
- Transmurality as bull's eye plot

Regional function

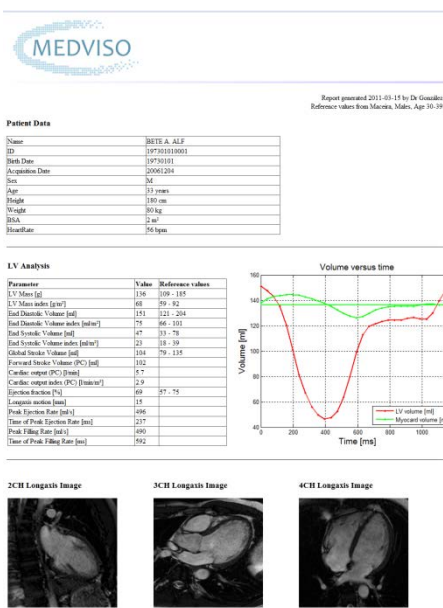
- Wall thickness
- Wall thickening
- Bull's eye plot based on 17 segment AHA model

Loading possibilities

- Full DICOM support
- Patient database
- DICOM server
- PACS connection
- Plugin to Sectra PACS

Report function

- Images
- Global function
- Reference value
- Comments by reviewing doctor
- Adjustable for your clinic



REGULATORY STATUS

SEGMENT CMR bears the CE marking of conformity and is certified according to the ISO 13485 standard. SEGMENT CMR is specifically developed for clinical use from the FDA 510(k) approved research software SEGMENT.

Medviso AB was founded in 2007 by Associate Professor Einar Heiberg as a spin-off from research at Lund University Sweden. Lund University is a share holder of the company. Software development are compliant with standards ISO 1041, ISO 13485, ISO 14971, ISO 62304, ISO 62366 and 21 CFR 820, 21 CFR 11 and LVFS:2003:11.

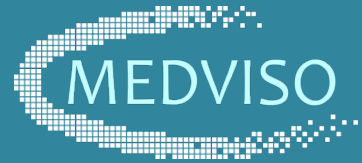
www.medviso.com
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SEGMENT CMR

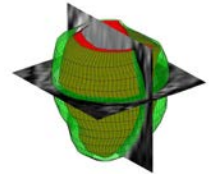
- Validation and research



Segment CMR stands on a solid research platform. It is the most validated software for Cardiovascular Magnetic Resonance Imaging on the market.

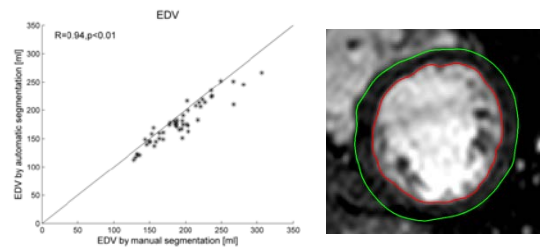
General image analysis tools

All general tools, such as volume quantification, measurements, data loading, and graphical display are validated and tested for each software version. **Heiberg et al, BMC MI 2010**



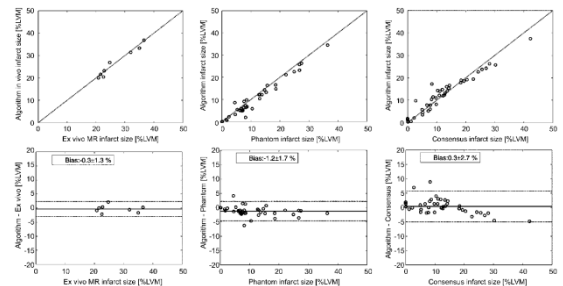
Left ventricle segmentation

Segment CMR have a market leading automated LV segmentation algorithm **Heiberg et al, CIRC 2005, Tufvesson et al, submitted 2013.**



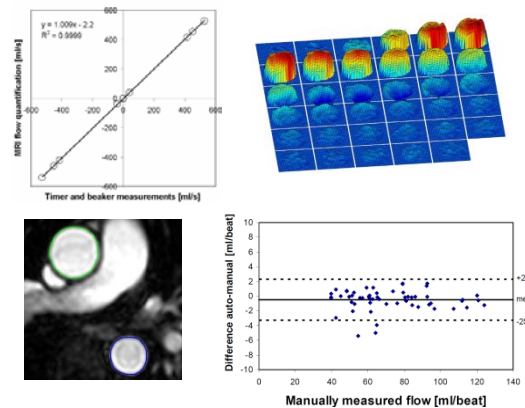
Infarct quantification

Segment CMR is the software on the market with infarct quantification validated versus reference standard. **Heiberg et al, Radiology 2008.**



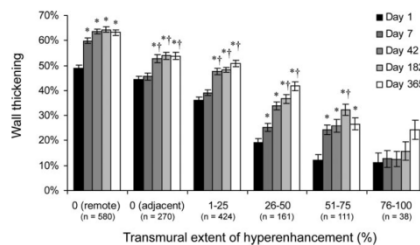
Flow

Accurate flow quantification is crucial for evaluation of valve function and shunts. Flow quantification including eddy current compensation and anti aliasing have been carefully validated. **Heiberg et al, SCMR 2007, Heiberg et al, BMC MI 2010.**



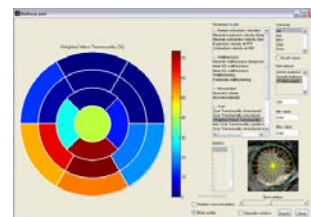
Wallthickening

Wallthickening and regional function have been used and validated in multiple research studies. **Engblom et al, Circ Cardiovas Imag, 2009.**



Bullseye representations

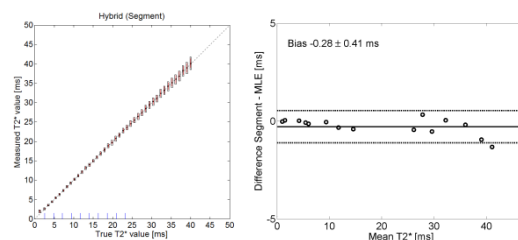
Validated bullseye representations of scar transmuralty and wallthickening.
Cain et al, *CPFI* 2005.



T2* quantification

A new hybrid algorithm validated against computer phantoms and patients.

Hedström et al, *SCMR* 2013.



RESEARCH COMMUNITY

SEGMENT CMR is based on the software SEGMENT which is used by more than 300 research groups world-wide. About one peer reviewed publication where SEGMENT have been used is published per week. In total there are over 280 publications. <http://www.medviso.com/research/publication>



+ many more



BACKGROUND

Medviso AB was founded in 2007 by Associate Professor Einar Heiberg as a spin-off from research at Lund University Sweden. Lund University is a share holder of the company. SEGMENT CMR bears the CE marking of conformity and is certified according to the ISO 13485 standard . SEGMENT CMR is specifically developed for clinical use from the FDA 510(k) approved research software SEGMENT.

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