**Functional Workflow**

Designed for the imaging specialist, Caas MRV assists in functional analysis of the heart.

The endocardial and epicardial wall of the ventricle is automatically segmented on short axis images.

Ejection fraction, End diastolic, and End systolic volumes are accurately calculated.

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**Tissue mapping workflow**

Tissue characterization by discriminating between T1 and T2 tissue contrast is a unique strength of magnetic resonance imaging. It allows the analysis of T1, T2, and T2* relaxation values.

Relaxation values can be translated into a color map for easy visualization of affected tissue. Visualization of T1 relaxation values is supported for look-locker and modified look-locker sequences.

1 In the US, Viability Analysis, Perfusion analysis, and T1 Tissue Mapping are for research use only and not meant for clinical decision support.

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**Key product features**

- Fast, Easy, and Intuitive workflow
- Workflows for Functional, Viability, Perfusion, and Tissue mapping analysis
- Easy PACS connection
- Vendor Neutral
- CE Marked, 510(k) approved
Caas MR Flow

Intuitive flow measurements
The Caas MR flow workflow guides you in just a few simple steps to the results based on your phase-contrast MR images. Inspection of the blood flow profile throughout the cardiac cycle of aortic and pulmonary flow could help to identify a shunt, valvular regurgitation or perhaps aortic coarctation.

Viability Workflow
Differentiate between viable and non-viable tissue using regional infarct classification based on delayed Enhanced MR images. Assess myocardial edema based on T2-weighted images. By combining segmental infarct and edema areas, salvageable areas in the area at risk can be identified.

Perfusion Workflow
Analyze rest and stress perfusion image sets side by side in the first pass perfusion workflow to determine myocardial perfusion.

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Caas MR Flow

Calculations of flows and velocities on Phase Contrast MR

Pie Medical Imaging stands for:
• The gold standard in Quantitative Analysis software
• Extensive validation for both patient care and research
• Accurate and reproducible analysis results
• Fast and intuitive operation
• Expertise in cardiovascular quantitative analysis software

Quality Assurance:
Pie Medical Imaging develops, produces and sells products in accordance with international accepted standards. CAAS MRV and CAAS MR Flow are CE marked and 510(k) cleared. The use of contrast agents for cardiac MR procedures is not FDA approved and therefore the viability workflow, perfusion workflow and T1 mapping of the tissue mapping workflow are not 510(k) cleared and available for research use only in the US.

Quality Management System complies with:
• ISO 13485
• FDA Good Manufacturing Practices
• Canadian CAN/CSA ISO 13485