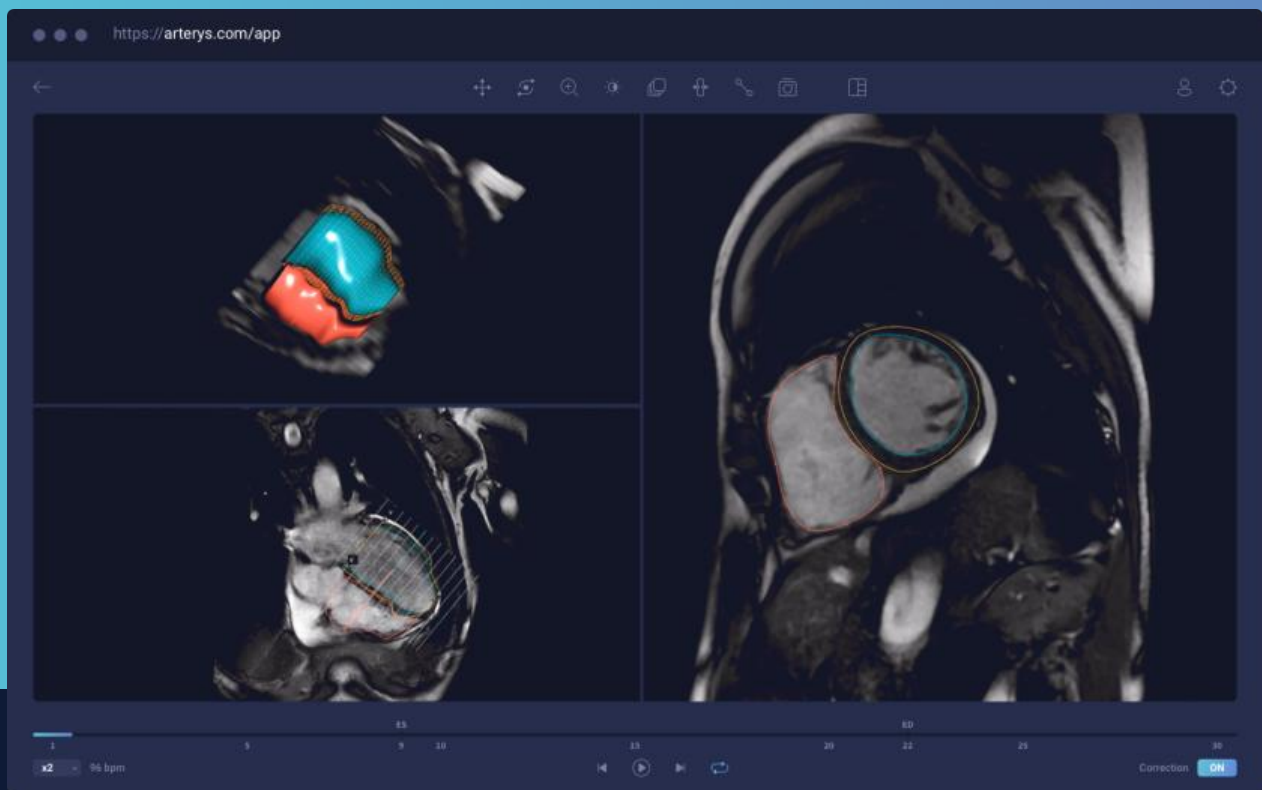


ARTERY S



Product Data Sheet



Arterys Cardio AI^{MR} provides a complete clinical Cardiac MRI solution, with cloud supercomputing and Artificial Intelligence to assist with the most complex workflows. It's medical imaging like you've never seen before.

4D Flow + AI

AI-automated identification of cardiac landmarks to provide automated cardiac views (2,3,4 chamber, short axis views).

AI-automated background phase error correction with manual override to fine-tune in a specific region.

3D volume rendering modes (Minimum Intensity Projection, Maximum Intensity Projection, Surface, Inverse).

Blood velocity vectors at any position and streamlines emanating from any region of interest.

Forward flow, reverse flow, net flow, peak velocity, and pressure gradient in any region of interest.

2D PC Flow + AI

Multiple regions of interest may be defined and edited, either manually or using the semi-automated algorithm.

Quantitative graphical output includes forward flow, reverse flow, net flow, regurgitant fraction, and peak velocity.

2D PC workflow includes side by side viewing of the anatomy images (optional color fusion), phase images.

AI-automated background phase error correction with manual override to fine-tune in a specific region.

Function + AI

AI-automated contour inference for RV and LV and instant ventricular function for 2D SSFP and 3D cine short axis stacks as accurate as experts, fully editable.

Dedicated cardiac function workflow to measure stroke volume, ejection fraction, cardiac output and myocardial mass from 2D SSFP, 3D Cine, and 4D flow with indexed values and normalized values for the pediatric and adult patients.

Ability to change ES and ED immediately on the study timebar for simple and quick editing.

Semi-Quantitative Perfusion + AI¹

AI-automated segmentation of left ventricle epicardial contours, endocardial contours, insertion points, co-registration.

Qualitative visual assessment of perfusion. Results can be displayed in a 17-segment AHA standard plot.

Rest and stress signal intensity graphs displayed side by side with images and 17-segment AHA standard plot.

AHA Segment upslope, normalized upslope, time to peak, peak signal, time to 50% of peak, area under curve.

T1 and ECV Quantification²

AI segmentation with deep learning of LV epi, LV endo and insertion points for T1 raw data sets.

Dedicated workflow for native and post-contrast T1 and ECV calculation for raw data and inline maps.

Graphical display of curve fit in the viewer and in the report.

T2² and T2* Quantification

Dedicated workflow for T2* quantification for multiple ROIs, including global ROI.
Graphical display of curve fit, with ability to exclude a point from the curve for T2*.

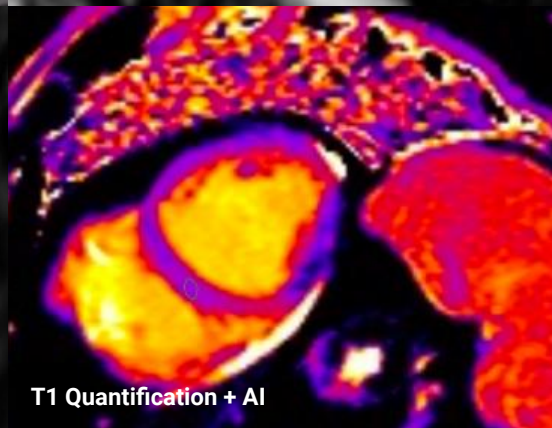
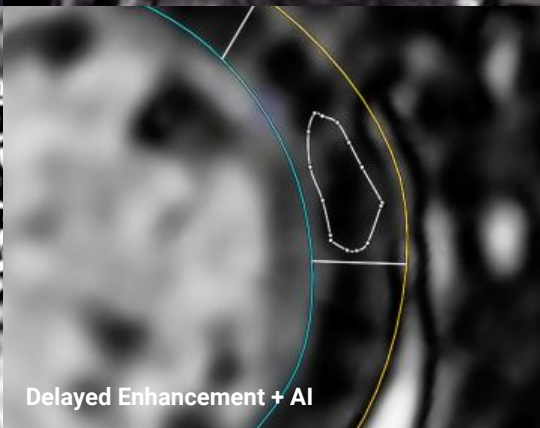
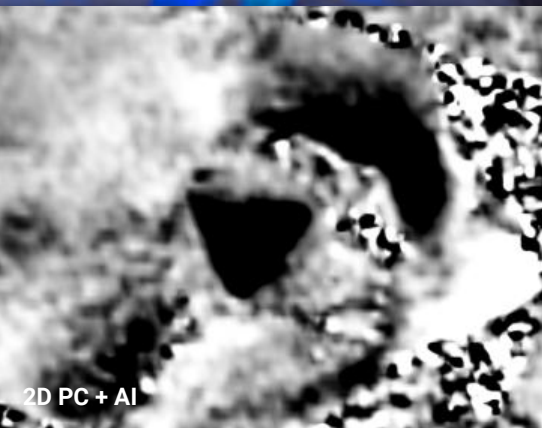
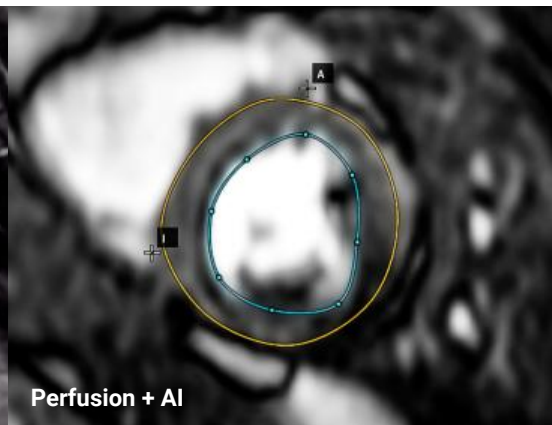
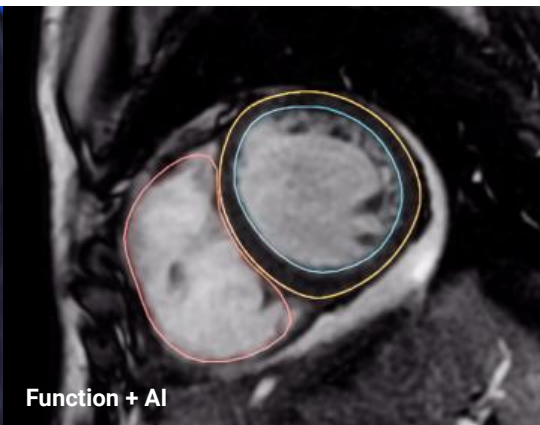
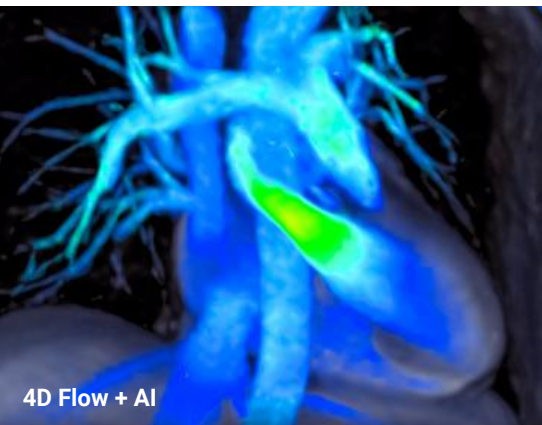
Quantitative Delayed Enhancement + AI¹

AI-automated segmentation of left ventricle epicardial contours, endocardial contours and insertion points.
Visual assessment of extent of scarring from delayed enhancement images using a color mask overlay.
Assess extent of enhancement for each segment on a 17-segment AHA standard plot or define a threshold.
Quantification of total myocardial mass (gr), enhanced mass (gr) and percent of myocardium enhanced.
Assess LGE, perfusion, and any reference series images side by side using drag and drop.

Automated, customizable reporting

Publish images and videos as secondary captures to PACS.
Customize reports by excluding measurements, entire sections, tables for a more consolidated clinical report.

*1. Drug products should be used in accordance with their approved labeling. Some Gd based contrast agents have not been approved for cardiac use in the U.S.
2. For research only*



Arterys platform features

Multi GPU based rendering distributed across hundreds of servers for highly responsive, any file size.

Web-based viewer with full-screen mode for native look and feel using Google Chrome.

Fully interactive visualization of DICOM images for real-time viewing of 2D, 3D, and 4D acquisitions.

Save, download an image/video. The video will be a cine loop of all the time points/slices for the current view.

Localization of app and supporting doc in English, Danish, Dutch, French, Italian, German, Portuguese, Spanish, Swedish.

Searchable worklist with custom tags that are viewable by anybody within the organization.

Vendor neutral. View any DICOM images.

Always stay up to date. New versions of the software can be instantly deployed globally.

Integration with hospital credential management system for seamless login.

For 400MB studies, time from last instance with all AI models processed is about 7 min.

System Requirements

Arterys is completely hosted in the cloud using Amazon Web Services (AWS) servers in several regions accessible globally through a Google Chrome™ web browser by navigating to <https://app.arterys.com>

Internet Speed 3 Mbps up/down Internet connection with a maximum of 100 ms latency.

Website Access WebGL is enabled on the device used to access the Arterys website. WebSocket is not blocked.

Browser Google Chrome™ Desktop Web Browser version 74 or above. Same requirements needed to run Google Chrome™: <https://support.google.com/chrome/answer/95346>

Screen Resolution 1024x768

Edge Service Custom software installed on a server within the hospital network or in the cloud to automate the sending of DICOM objects from the scanner to the cloud and to PACS while ensuring that the patient's protected health information (PHI) remains within the hospital network (refer to Edge Data Sheet)

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Software version 19.11.0