

Largest Segment update ever!

Dear Segment user,

We are happy to announce a new release of Segment, the largest Segment update ever! In the new release you find a whole bunch of new AI algorithms to streamline your cardiac MR analysis.

Important updates are:

- New AI LV segmentation available in the LV tab. The legacy LV segmentation algorithms, usable in rodent data, is found in the Segmentation menu.
- New AI segmentation of all chambers in LAX and quantification of LA volume and RA area
- New AI LV segmentation in LGE images found in the Viability tab
- Correction of ECV quantification, more details below
- QpQs can be calculated based on both CO and SV
- Added options to show all or only applicable stacks in the left thumbnail view in the main window (ALL/MODE)
- Extended functionality in our automation module AI AutoMate, more details below
- Introduction of a new 4DFlow module, more details below

Read the full release notes here:

<https://medviso.com/documents/releasenotes/segment/releasenotesSegment4300.pdf>

CORRECTION OF ECV QUNTIFICATION

The new Segment release include correction of an ECV quantification issue that was included in the Segment 4.1.0.0 release. The issue is that ECV is computed incorrectly if (and only if) the Blood ROIs have been drawn in different order in pre- and post-contrast T1 map.

NOT AFFECTED ECV analysis workflow: If ROIs are added in the same order in both Pre-T1 and Post-T1 (e.g., blood ROI first, then ECV ROIs), the calculated ECV values remain correct.

AFFECTED ECV analysis workflow: If ROIs are added in a different order between Pre-T1 and Post-T1 (for example, blood ROI first in Pre-T1 but last in Post-T1) the mismatch lead to incorrect ECV values.

4D FLOW, AI AUTOMATE & STRAIN

Our automation module, AI AutoMate, streamlines the analysis of large cohorts. With multiple batch running options, it provides automatic volumetric and strain analysis in the LV and RV short-axis, as well as in the LV, RV, LA, and RA long-axis, along with segmentation of the LV in LGE images, offering zero-click analysis and deep insights into cardiac function with minimal manual input.

Our brand-new 4D Flow module features a user-friendly workflow for flow visualization and measurements. It supports 4D Flow visualization of streamlines, ROI-based flow calculations, and Qp/Qs analysis.

Available as an add-on purchase, AI AutoMate, Strain Analysis, and 4D Flow are designed to

complement the core platform by offering deeper insights into cardiac function. Contact sales@medviso.com for more information and a free trial.

SOFTWARE UPGRADING

- First time after installation, Segment must be started by right-clicking and selecting "Run as administrator"
- System requirements for Segment v.4.3.0.0 are found in <https://medviso.com/documents/segment/manual.pdf> Chapter 7.1.
- Go to <https://medviso.com/download2/> to download the installation file.
- Run the downloaded exe-file and follow the instructions for installation and first-time set-up.
- Contact us at support@medviso.com if you would like to have assistance in the upgrading process.

SEGMENT NEWSLETTER

You are receiving this newsletter since you are registered as a user of the medical image analysis software Segment. The software Segment is brought to you by Medviso AB in close collaboration with Lund Cardiac MR Group, Lund University, Sweden and Region of Scania, Skåne University Hospital. Segment is freely available for research purposes, provided that you properly refer to the software according to instructions on <https://medviso.com/research/how-to-refer/>

Best regards,

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