3mensio Aortic Valve

The tool for pre-op assessment of TAVI procedures

Quick, easy and reliable measurements and assistance for planning of transcatheter aortic valve implantations. 3mensio provides dedicated modules for multi-phase aortic root analysis and approach route planning.

Including virtual valve, calcification assessment and simulated angio.

Volume rendering of aortic root

Aortic root measurements

Aortic annulus

LVOT measurement

Coronary height measurement
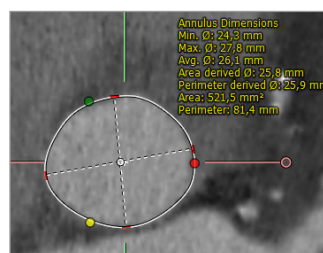

Membranous septum length

Automatic segmentation
The intuitive workflow makes it possible to automatically segment the ascending aorta. Besides that, it is possible to perform manual adjustments and custom measurements.
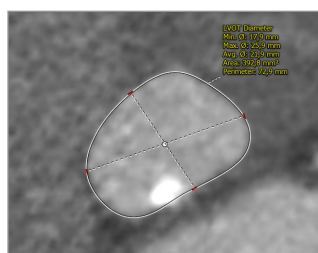
Measurements
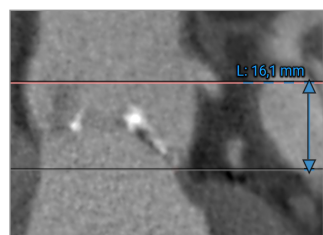Measurements can be performed in the form of diameter, area, perimeter and length measurements such as:

- Annulus
- LVOT
- Horizontal aorta angle
- Membranous septum
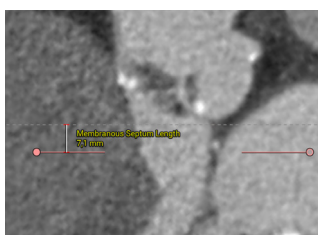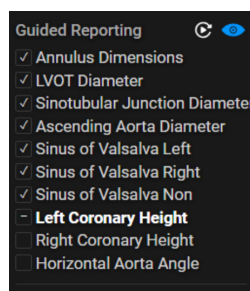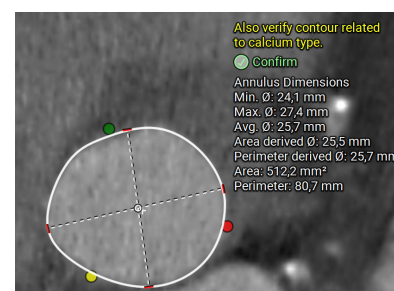- Coronary heights
- SOV
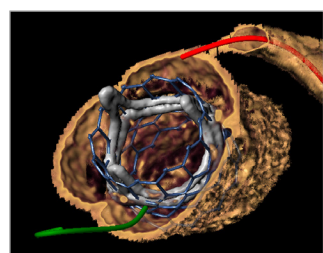- STJ
- Ascending aorta

Guided reporting

Guided reporting suggests measurement placement which may then be modified as needed and confirmed, to streamline the planning process. Additionally, you have the flexibility to choose which measurements to include in the guided reporting.
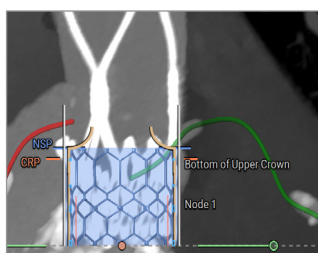

Guided reporting

Suggested annulus measurement

Valve-in-Valve*

The Valve-in-Valve workflow assists in RedoTAV and TAV-in-SAV procedural planning. It provides specific visualizations and measurements, including commissural alignment assessment, CRP and NSP tracing and an assessment of coronary access.

TAV-in-SAV

TAV-in-TAV

The Valve-in-Valve workflow is available as add-on license

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## Aortic root assessment

The simulated angio
The simulated angio view can be used to identify best C-arm projections to use during the procedure.
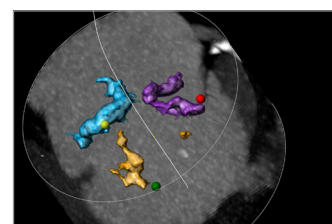
Calcification
The shape and position of the calcium can visually be assessed in multiple views. The amount of calcium can be quantified and an Agatston score can be calculated.
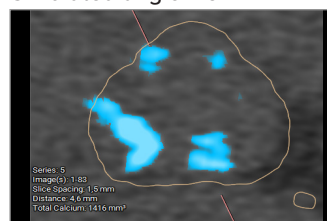
Virtual valve
A virtual valve can be placed into the patient's anatomy to simulate implant depth and angle. It is also possible to import a valve using an STL-file or create your own custom valve in the workflow.
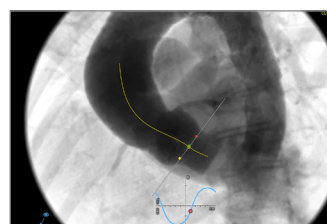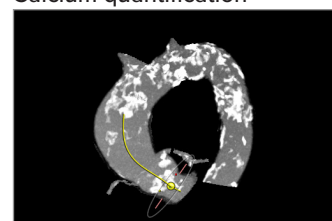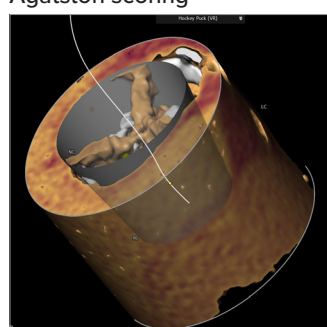

Simulated angio view
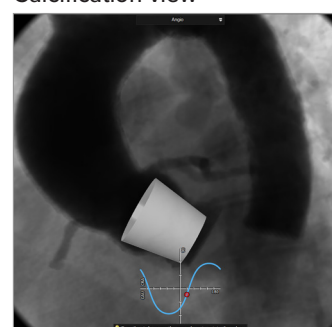

Calcium quantification
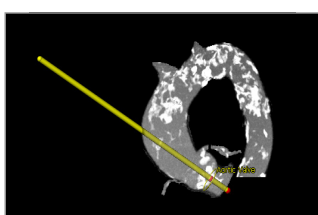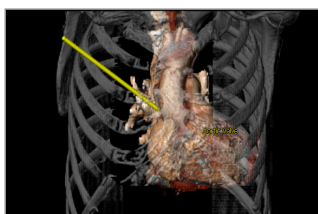

Agatston scoring

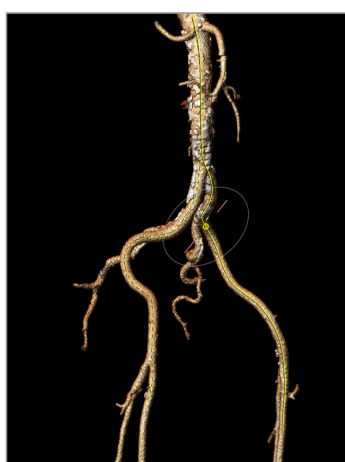Calcification view

Virtual valve hockey puck view

Virtual valve in angio view

DA calcification view

DA heart and bone view

Femoral volume rendering view

Approach routes

Dedicated workflows are available to examine a femoral, subclavian, carotid, direct aortic or transapical approach route.

The workflows allow you to visualize structures like ribs, skin and vessels with their relative diameters, calcifications and tortuosity.

Reporting

A complete report including measurements and summarizing infographics can be created. Customize your report by adding screenshots and comments.

Open the report in the 3mensio report app for interactive visualization of the anatomy, measurements, angio angles and screenshots.