# 3mensio Pulmonary valve

*The tool for pre-op planning of pulmonary valve replacement and stenting*

Quick, easy, and reliable measurements and planning of transcatheter Pulmonary valve implantations. 3mensio provides a dedicated module for the analysis of the Pulmonary Trunk in both ED and ES and the left and right Pulmonary Artery. Including virtual valve, virtual stent, and simulated Angio.
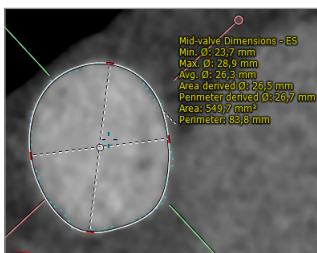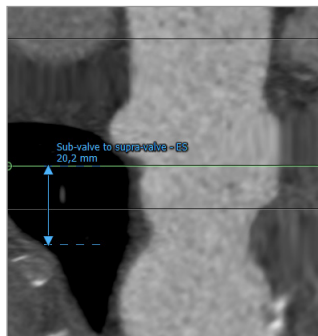

Volume rendering of Pulmonary trunk
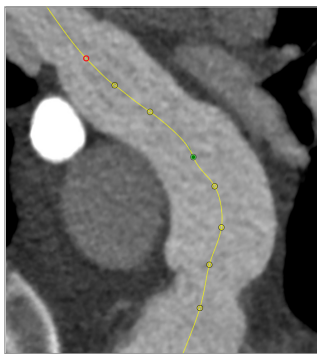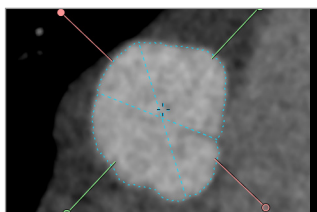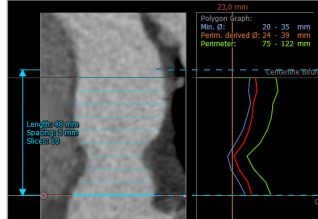

Automatic centerline
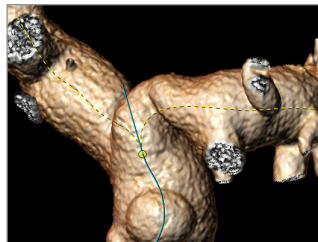
Three centerlines

Diameter measurement

Pulmonary Trunk measurement

Automatic measurement

Polygon graph tool

Pulmonary measurements

Automatic segmentation
The intuitive workflow can automatically segment three centerlines through the Pulmonary Trunk and the left and right Pulmonary Arteries. But also offers full manual adjustment options.

Measurements
A variety of measurements is available:
- Area
- (perimeter derived) diameter
- (centerline) length measurements

Three centerlines allow measurement of:
- Pulmonary valve height
- Pre/post bifercation diameters
- RVOT dimensions

Polygon graph tool
The polygon graph tool will give a fast and intuitive overview of the Pulmonary Trunk by means of automated diameter measurements.

Pulmonary Trunk assessment

Simulated Angio
The simulated Angio can be used to find the optimal projections for implantation, which can help save time during the procedure.
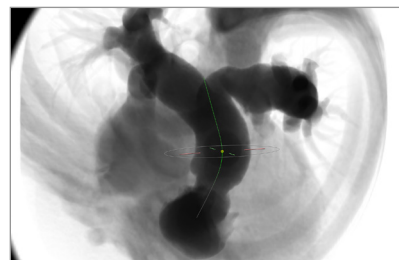
Simulated Angio view

PIE
MEDICAL
IMAGING

3mensio Pulmonary valve

Virtual valve and stent

A virtual valve can be placed into the anatomy to allow better assessment of position and angle. Use the implemented custom valve or import an STL-file.
The virtual stent will automatically be aligned with the Pulmonary trunk using the centerline to allow assessment of the needed size and position of the stent.
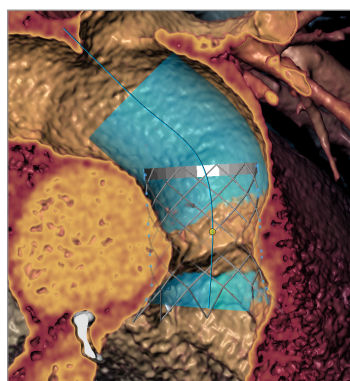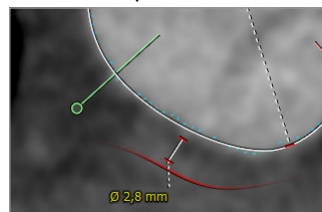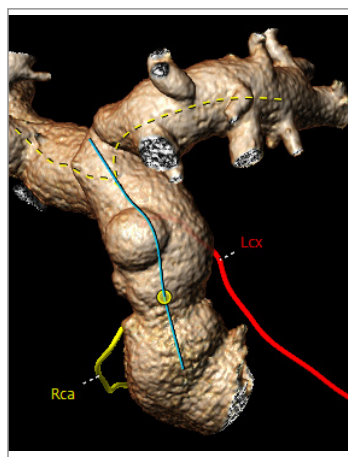

Virtual valve in-stent
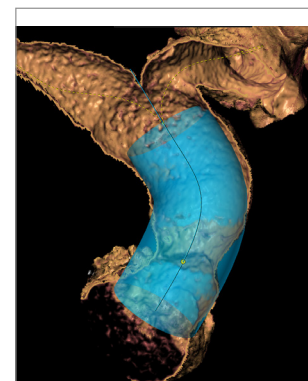
Virtual stent positioning

Curved sculpt

Coronary distance

Coronary overview

Anatomic assessment

Dedicated views are available to assess the anatomy. A view inside the vessel is possible using the curved sculpt tool.

Coronary tracing
The automated Coronary centerline tracing can be used to assess the relationship between the coronaries and the Pulmonary Trunk.

Reporting

A complete report including a variety of tabulated measurements can be created. Customize your report by adding screenshots and comments.

Review Interactive reports on your iPad
Open the report in the 3mensio Report app for interactive visualization of the anatomy, measurements, Angio angles, and screenshots.

Quality Assurance:

Pie Medical Imaging develops, produces and sells products in accordance with internationally accepted standards. 3mensio Workstation is FDA 510(k) cleared and CE marked. C€ 0123