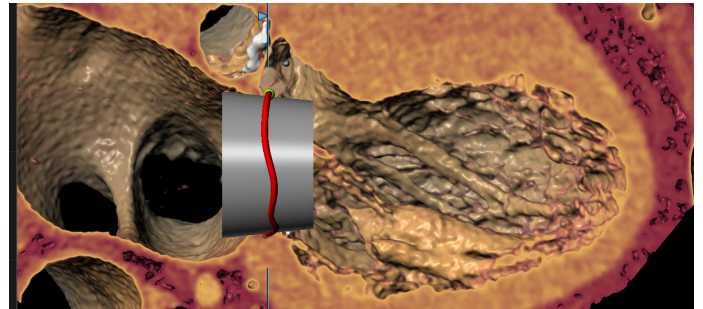


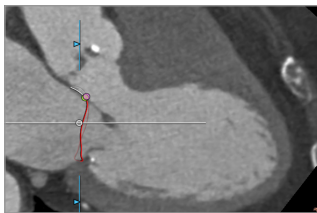
3mensio SH Mitral Valve

The pre-op assessment tool for Mitral valve repair and replacement

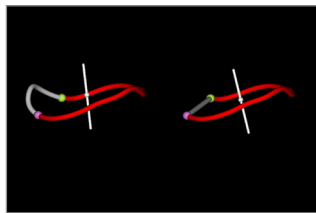
Determine the anatomy and dimensions of the patient's mitral valve with this dedicated workflow. The 3D shape and dimensions of the annulus can easily be defined as well as the relationship with surrounding structures. Assess different approach routes to get a complete overview of the patient's anatomy.



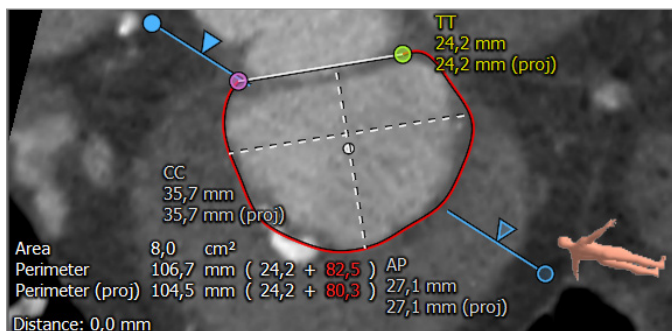
The heart with a defined Mitral annulus and a virtual valve



Mitral annulus



Saddle shape and D-shape



Annulus dimensions

Mitral Annulus Anatomy

Annulus Annotation

A single click brings you into the Mitral space. Trace the saddle shaped annulus using an easy and reproducible method. From the annotated annulus the dimensions are automatically calculated. A D-shape model is also available.

Anatomical Assessment

Different views are available to assess the shape and position of calcium and vessel centerlines can be traced and visualized.

Multimodality Mitral Assessment

Optimal Projection

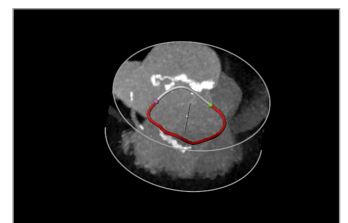
The simulated Angio view can be used to find optimal projections in order to save time and contrast agent during the procedure.

3D US and Virtual TEE

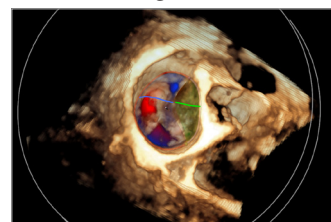
3D ultrasound data can be linked with the CT-analysis. After tracing the annuli within the different modalities, the data can be linked for better assessment. A virtual ultrasound representation can also be used in the septal crossing workflow to plan TEE.



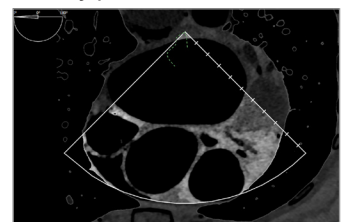
Simulated Angio view



Hockey puck



3D ultra Sound

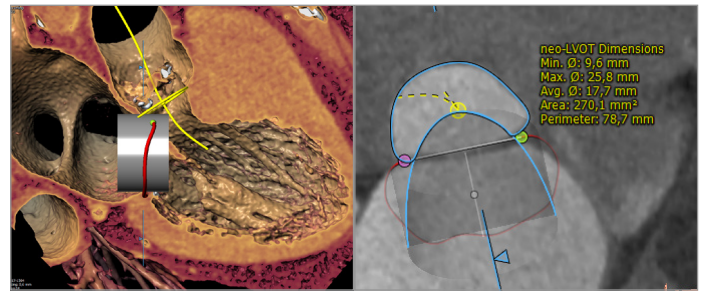


Virtual TEE

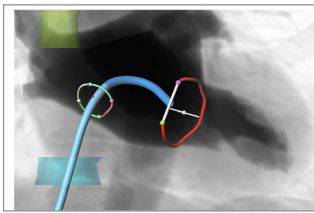
3mensio SH Mitral Valve

Virtual Valve and Neo-LVOT

A virtual valve can be placed by means of importing an STL file or creating a custom valve. After a virtual valve is placed the LVOT obstruction can be measured and saved to the report.



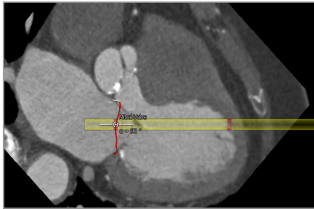
Left: Virtual valve Right: Short axis view on the LVOT



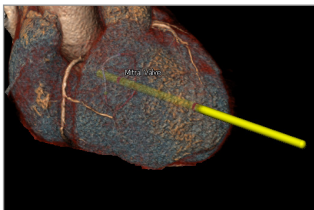
Septal Crossing



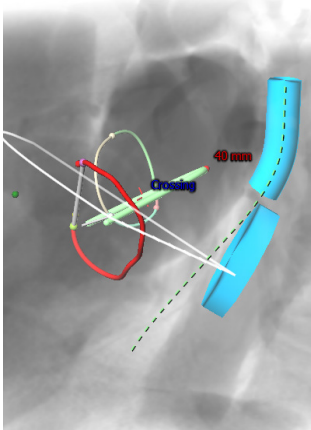
Femoral and Subclavian



Transapical



Transapical



Virtual TEE probe

Approach Route Assessment

Septal Crossing: This workflow can be used to plan and visualize the catheter path through the Vena Cava and Fossa Ovalis by determining the septum anatomy.

TEE: The septal workflow also offers a virtual TEE module that helps to plan TEE angles and views in either mono or bi-plane echo views.


Transapical: The trajectory of a catheter is automatically determined perpendicular from the Mitral valve towards the Apex. The entry point and structures like ribs, skin and vessels can be visualized.

Reporting

A complete report can be created by labeling the measurements in the different workflows. The most important measurements are shown in a summarizing infographic. Customize your report by adding screenshots of the assessment.



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 (MDD compliant).  0123