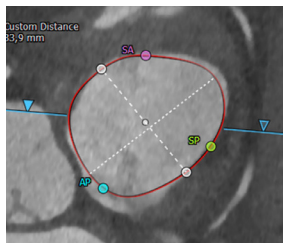
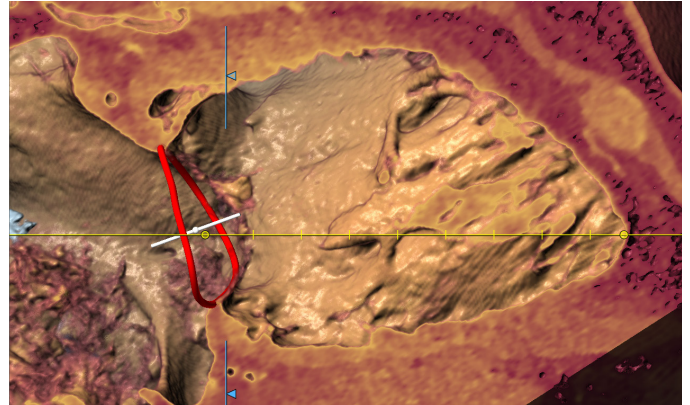


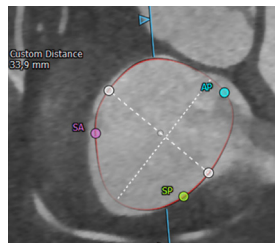
3mensio SH Tricuspid Valve

The pre-op assessment tool for Tricuspid valve related procedures

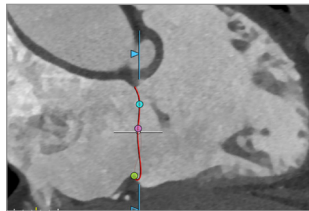
Based on CT-data the 3D shape of the Tricuspid valve and surrounding structures can be visualized and analyzed. A Virtual valve or anchor device can be placed. The distances towards the RCA can be easily assessed and detailed analysis of the inferior and superior Vena Cava dimensions can be performed.



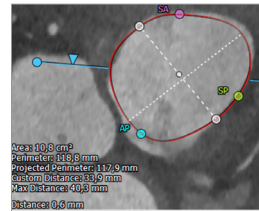
Surgical view



Apical view



Tricuspid annulus



Annulus Dimensions

Tricuspid Annulus Measurements

Annulus Annotation

The Tricuspid annulus can be traced by selecting the hinge points, while the software rotates around the annulus. The annotated annulus dimensions, like area, perimeter and custom diameter are automatically calculated. The Commissures are depicted as well.

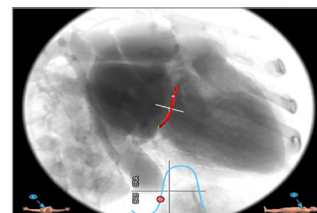
Tricuspid Valve or device placement

Optimal Projection

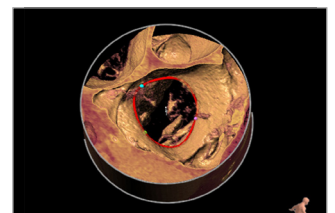
The simulated Angio view can be used to find an optimal projection which saves time and contrast agent during the procedure.

Virtual Valve or Device

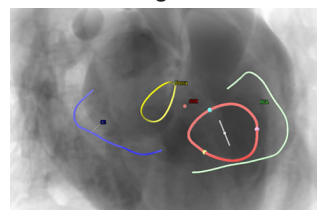
A virtual valve can be placed by means of an STL file of a valve or by creating a custom valve. This will aid in the assessment of implantation depth, valve selection and anchoring possibilities. When anchors are placed a ring-like device can also be visualized.



Simulated Angio view



Hockey puck



Atrial structures



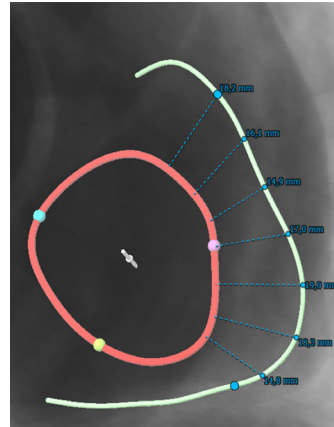
Virtual device

3mensio SH Tricuspid Valve

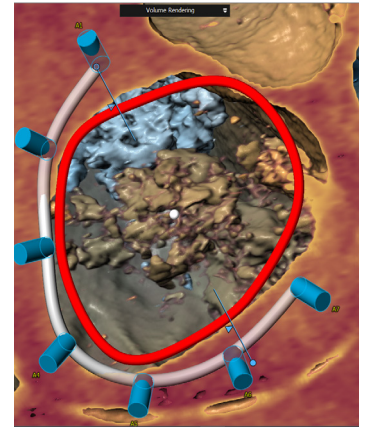
Anchoring and RCA Trace

The Tricuspid valve workflow has an anchoring workflow that can help to assess anchor placement based on proximity to the annulus, the wall and surrounding vessels.

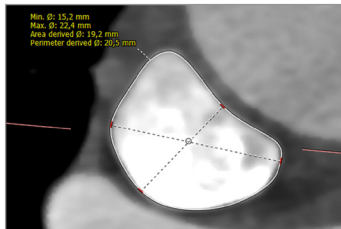
The RCA centerline can be traced either automatically or manually and the distance to the annulus is automatically calculated.



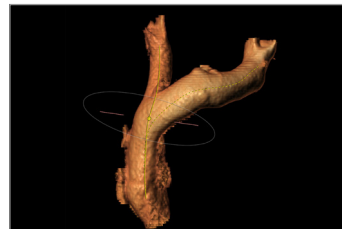
RCA distance to annulus



Anchors and virtual device



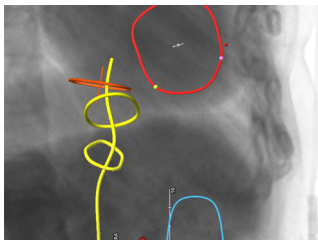
SVC dimensions



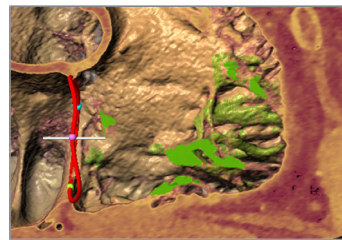
SVC segmentation

SVC and IVC assessment

The superior Vena Cava can be segmented and centerlines can be drawn in the left and right Brachiocephalic vein and the inferior Vena Cava. Dimensions like diameter, area and lengths of both IVC and SVC are easily obtained.



IVC represented in Angio



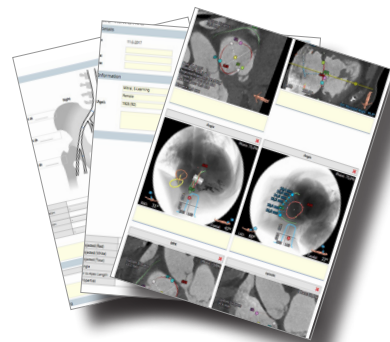
Trabeculae in VR

Trabeculae

Trabeculae can be segmented automatically and highlighted in the Angio view. Possible interference of the device with trabeculae can be assessed by implantation of a virtual device.

Reporting

A complete report can be created by labeling the measurements in the different workflows. 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).

