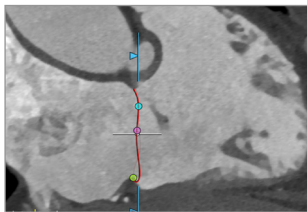
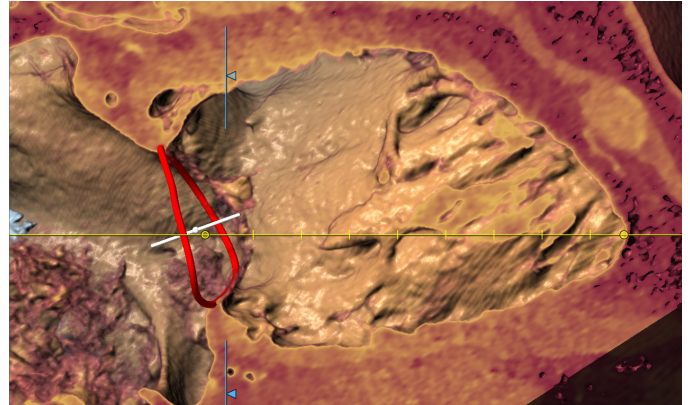


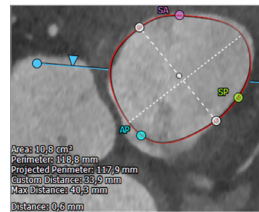
3mensio Tricuspid Valve

The pre-op assessment tool for Tricuspid valve related procedures

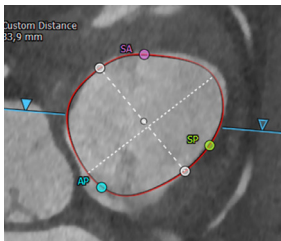
Based on CT-data the 3D shape of the Tricuspid valve and surrounding structures can be visualized and analyzed. A Virtual valve or anchor device can be placed. The distances towards the RCA can be easily assessed and detailed analysis of the inferior and superior Vena Cava dimensions can be performed.



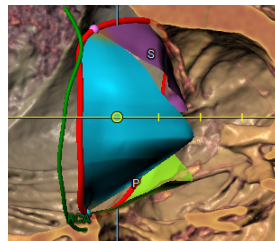
Tricuspid annulus



Annulus Dimensions



Surgical view



Tricuspid leaflets

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, additional commissures can be added and the Tricuspid leaflets can be annotated.

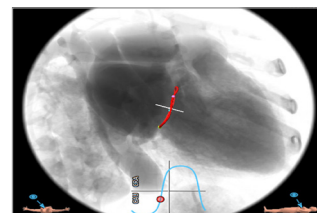
Tricuspid Valve or device placement

Optimal Projection

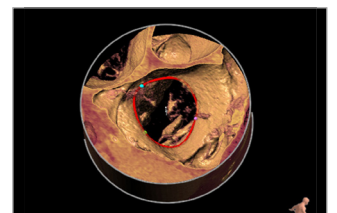
The simulated Angio view can be used to find an optimal projection which can help save time during the procedure.

Virtual Valve or Device

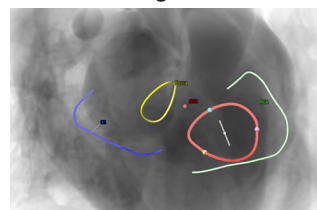
A virtual valve can be placed by means of an STL file of a valve or by creating a custom valve. This will aid in the assessment of implantation depth, valve selection and anchoring possibilities. When anchors are placed, a ring-like device can also be visualized.



Simulated Angio view



Hockey puck



Atrial structures



Virtual valve

3mensio Tricuspid Valve

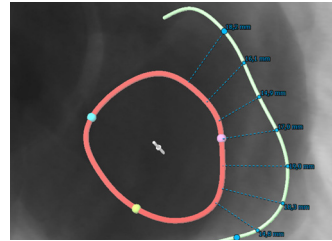
Anchoring and RCA Trace

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

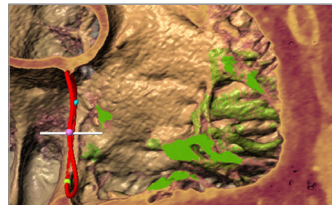
The RCA centerline can be traced either automatically or manually and the distance to the annulus is automatically calculated.

Trabeculae

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



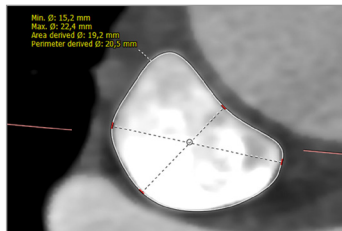
RCA distance to annulus



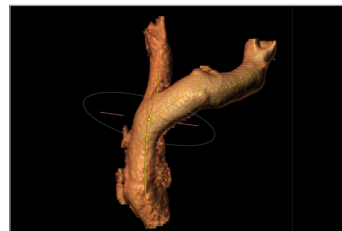
Trabeculae in VR



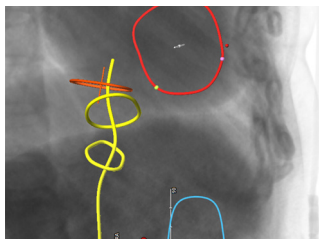
Anchors and virtual device



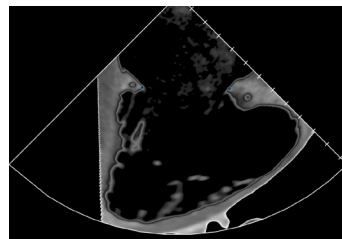
SVC dimensions



SVC segmentation



IVC represented in Angio



Virtual ICE

Preparing the procedure SVC and IVC assessment

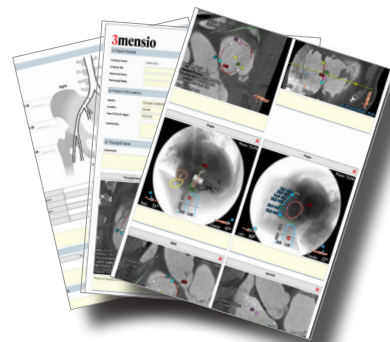
The superior Vena Cava can be segmented and centerlines can be drawn in the left and right Brachiocephalic vein and the inferior Vena Cava. Dimensions like diameter, area and lengths of both IVC and SVC are easily obtained for optimal approach or stenting.

Virtual ICE and TEE

The virtual ICE and TEE workflows can be used to plan optimal probe position and angulations for your procedural guidance.

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. 