

CT Transcatheter Aortic Valve Replacement (TAVR) Workflow

VPMC-15856 F

CT TAVR

Overview:

- ▶ **CT Transcatheter Aortic Valve Replacement** (TAVR) planning assists with the assessment of the aortic valve and in pre-operational planning and post-operative evaluation of transcatheter aortic valve replacement procedures.

Some key features of the application include:

- ▶ Comprehensive template of measurements, including diameter, area, angle, circumference and length
- ▶ Automated segmentation and centerlines of aorta and aortic root for assessment and delivery approach
- ▶ Three-point aortic valve plane definition
- ▶ Display of C-Arm angle for device placement
- ▶ Flexibility to enable planning for the transfemoral, subclavian and transapical delivery approaches
- ▶ Create new, add or modify stent planning templates with the Custom Device Template Editor
- ▶ Ability to load multiple volumes or series, allowing users to analyze diastolic, systolic and access phases with combined reporting
- ▶ Optimized viewing for cardiac valves and calcium

CT TAVR - Workflow

The Steps:

- ▶ Select Study
- ▶ Choose Protocol and Preset
- ▶ Volume Navigation
- ▶ Set Valve Plane
- ▶ Predict the angle of implantation. (C-Arm Angles)
- ▶ Measure/Modify Annulus Diameter/Annulus Size
- ▶ Measure/Modify Sinotubular Junction (STJ) Diameter
- ▶ Measure/Modify Sinus of Valsalva Width/Height
- ▶ Measure Annulus to LM and RCA Height
- ▶ Measure/Modify Maximum Ascending Aorta Diameter
- ▶ Measure/Modify Minimal Abdominal Aorta Diameter
- ▶ Measure/Modify Maximum Thoracic Aorta Diameter
- ▶ Measure/Modify Aortic Neck Angle
- ▶ Apply Aortic-Iliac Access and review Auto Centerline
- ▶ Measure/Modify Left/Right Common Iliac/External Iliac/Femoral Arteries
- ▶ Maximum Tortuosity Left/Right Iliac
- ▶ Add New Measurements
- ▶ Set Diameter Thresholds
- ▶ Review specialized Presets (Calcium/Leaflet view)
- ▶ Modify/Create New Templates
- ▶ Vessel Extend
- ▶ Edit Centerline and Contours
- ▶ Create Batch and Snapshots
- ▶ Distribute Finding and Reports

CT TAVR - Load the Study

Select the Patient.

Double click to select the application or single click on thumbnail and click on the open button.

OR

The series are located below the applications. Choose the desired series. Double click the **TAVR Planning** Application.

Tip: User can load up to **21** series at one time. Hold **CTRL** when selecting each series.

The screenshot displays the CT TAVR software interface. At the top, a table lists patient data and study details. A red arrow points to the 'TAVI' row. Below the table, a row of application thumbnails is shown, with 'TAVR Planning' highlighted by a red box. A red arrow points to the 'TAVR Planning' thumbnail. Below the applications, a list of series is displayed, with a red arrow pointing to the 'TAVR Planning' series. At the bottom right, a red arrow points to the 'Open' button.

PACE-028	4DCT-18-028	CT, SR	553	04 Dec 2018 ...	ALPHENIX	RSNA 2019 TACE			
TAVI	M	IM80-WVHP-081	CT	1452	23 Mar 2017 ...	PRIME_CARDIAC	RSNA 2019 CANON TAVR ACCESS ONLY NO O...	37y	
TAVI 3PH vHP 30ML	M	IA1P-WVHP-22308	CT	1878	20 Jun 2019 ...	PRISM_WHOLE	AICE		
TAVI DISSECTION	M	AA1P-WVHP-099	CT	1698	08 Jul 2022 O...	PRISM_WHOLE	AICE	68y	
TAVI VOL/HEL	O	EA1P-CV-469	CT	4846	01 Jan 2000 ...	PRISM_CARDIAC	RSNA 2019		
TAVR	M	UUHR-CVHP-775	CT	1453	02 Apr 2019 ...	PREC_CARDIAC	--		
TAVR		4 Series to Load	CT	1185	16 Sep 2013 ...	--	--		

Applications Results Study Algorithm Processing

Cardiac Analysis Multi Vessel Cardiac Analysis Cardiac Functional Analysis Multi Chamber Functional Analysis **TAVR Planning** EP Planning Myocardial Perfusion Coronary Subtraction Coronary CTA Lung Nodule Analysis Lung Airway Analysis Pulmonary Analysis Larynx Airway Lung Density Analysis

TAVI IM80-WVHP-081 (M 37y) CT 23 Mar 2017 14:53 RSNA 2019 CANON TAVR ACCESS ONLY N

Tools List Images

Open

CT TAVR - Load the study from Gallery

Select Protocol
Vascular: TAVR CT.

Select **TAVR.**

Study List

Gallery

Patient Information

Ref. Physician: 170828-04

Modality: CT

Exam Type: RSNA 2019 CANON TA...

Institution: CANON

Protocol

- Generic CT
- Abdominal CT
- Body Perfusion CT
- Brain Perfusion CT
- Cardiac Arteries CT
- Cardiac Ca Scoring CT
- Cardiac EP Planning CT
- Cardiac Functional CT
- Cardiac Myocardial CT
- Colon CT
- Dual Energy CT
- Larynx/Airway CT
- Liver CT
- Lung CT
- Musculoskeletal CT
- Urogram CT
- Vascular: Aorta CT
- Vascular: Aorta Stent CT
- Vascular: Carotid CT
- Vascular: CoW CT
- Vascular: Renal CT
- Vascular: Runoff CT
- Vascular: TAVR CT**

Back To Viewer

2D

Pick

TAVR

Pick

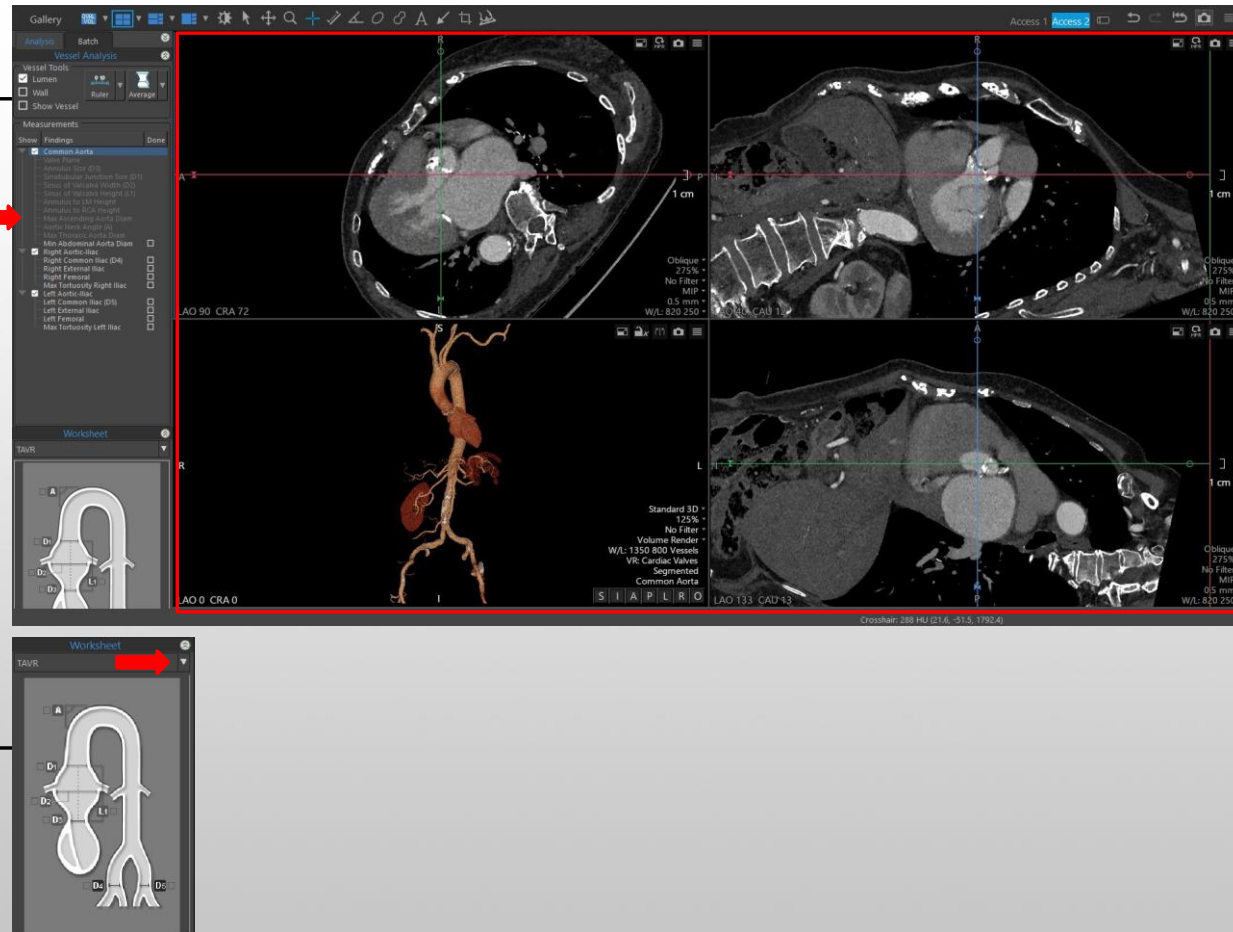
Segmentation done.

CT TAVR - Viewer

The viewing screen displays three oblique MPRs and a 3D view.

The TAVR workflow measurement list is displayed.

Click the arrow next to Worksheet to display the TAVR Worksheet.



CT TAVR - Volume Navigation

You can rename the volumes when multiple series are loaded.

Click on the Volume you want to rename. Click on the icon next to Vol. 1.

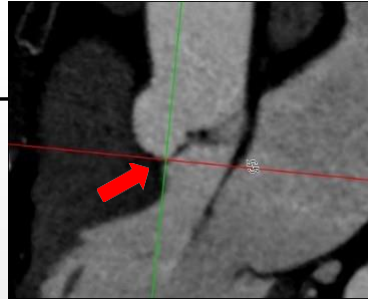
Rename the volume. Click **OK**. Repeat for the remaining volumes.



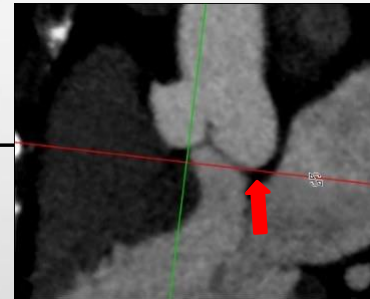
Tip: Click Next to rename the other volumes.

CT TAVR - Set Valve Plane

Place the **crosshair** at the bottom of one of the cusps on the long axis view.

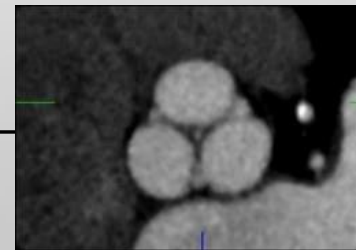
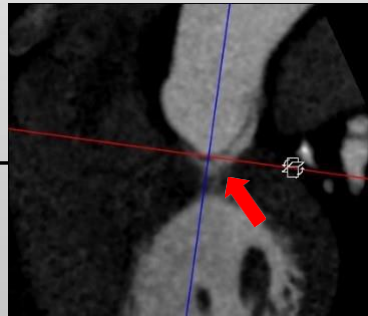


Continue within the same view and scroll to locate the bottom of the second cusp. **Rotate** the **red** line until it intersects both cusps.

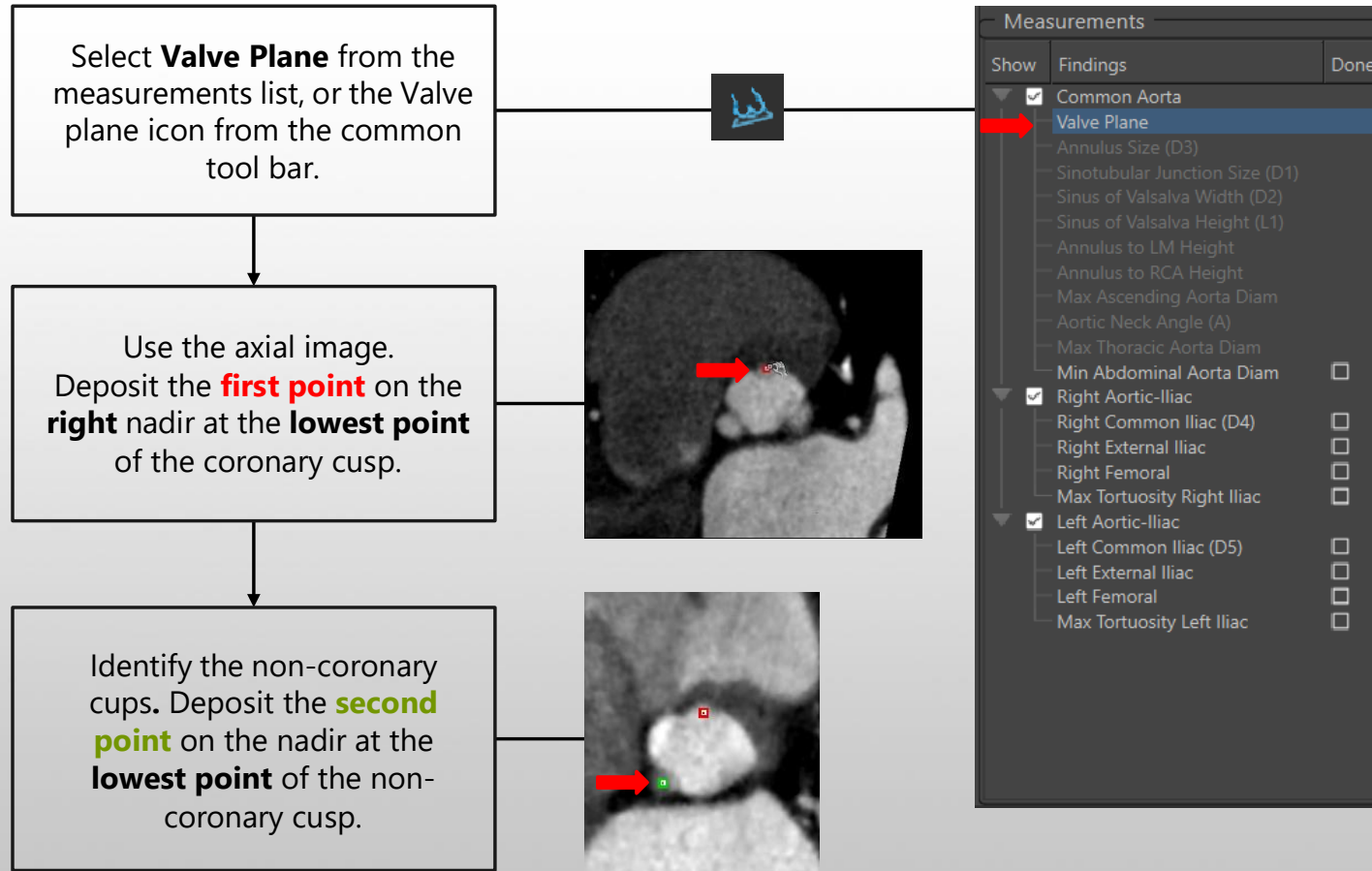


Tip: Cine through valve until 3 cusps come into view. Adjust the crosshair rotation as needed.

Move across to view the other long axis image. **Rotate** the **red** line until it is **parallel** with the cusps. The **short axis** view **displays the valve plane**.



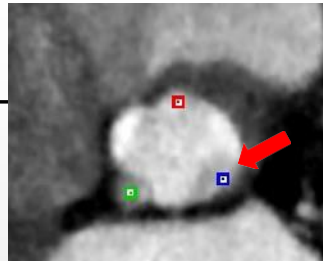
CT TAVR - Set Valve Plane



Tip: The green dot will automatically follow after the red dot is placed. It is recommended to place the dots anti-clockwise, to ensure the correct color is placed on the correct nadir.

CT TAVR - Set Valve Plane

Scroll to identify the left **coronary cusp**. Deposit the **third point** on the nadir at the lowest point of the cusp.



Tip: Click on the valve points in any plane to edit.

Tip: Hit the space bar to toggle between the three-valve point. Click on the valve points in any plane to edit.

The **valve plane** is now identified in **purple**.

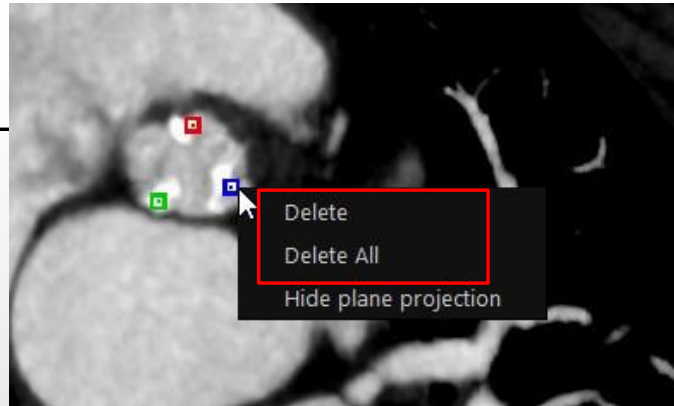


Take a **Snapshot**.



CT TAVR - Delete Valve Points

To **Delete** or **Delete All** valve points. **Right-click on** a valve point marker. Select the appropriate option from the list.

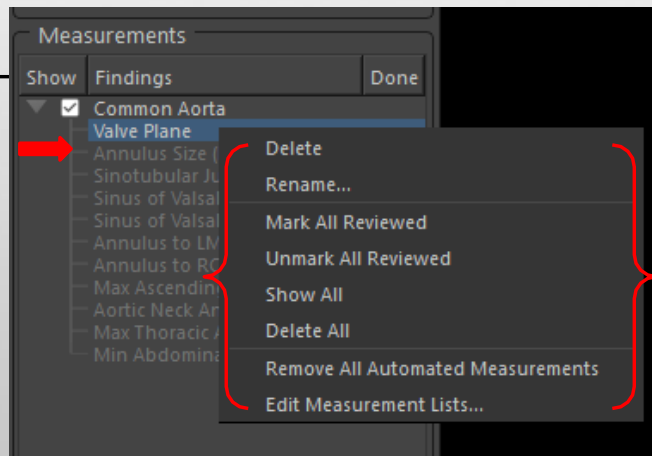


Tip: Hide or Show the plane projection.

Tip: You can edit all measurements.

OR

Right-click on the **Measurement Findings**. Select from the options.



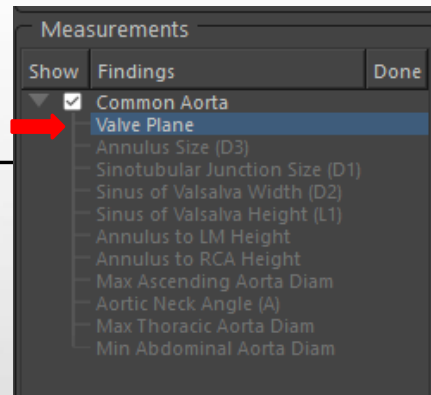
CT TAVR - C-Arm Angles

- ▶ The valve plane is automatically generated and superimposed on the 3D images to predict the angle of implantation.

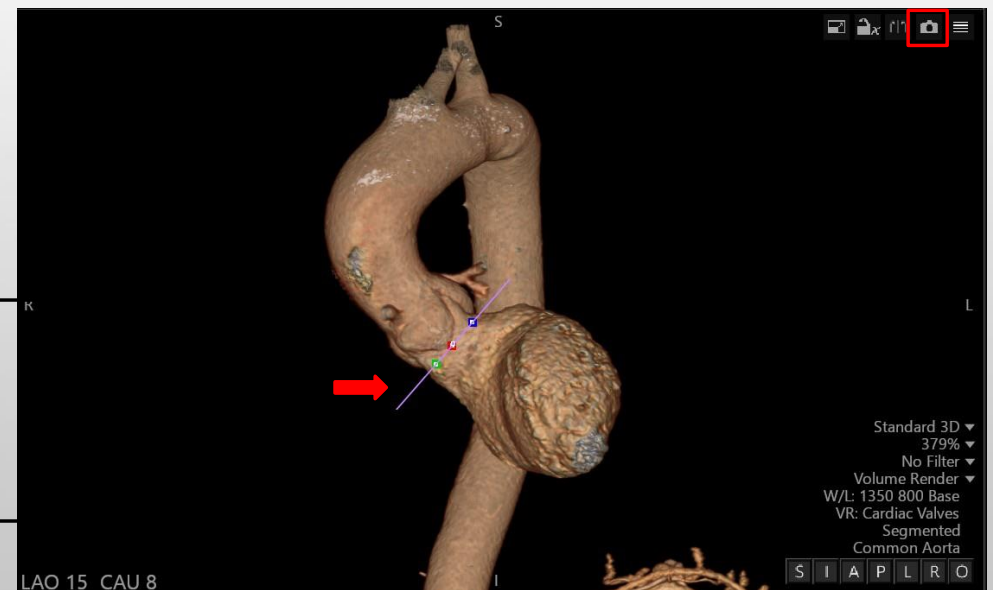
3D view must be in the **AP** position. Click **Valve Plane**. **Center and rotate** the **red** right cusp equal distance between the **green** non coronary cusp and **the blue** left cusp.

Rotate until the points are **perpendicular to the valve plane**. C-Arm angle displays on the **lower left corner**.

Take a **Snapshot**.

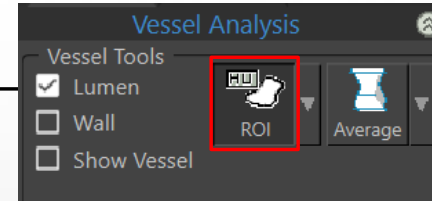
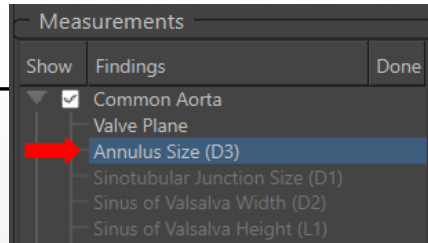


Tip: To Zoom the image, click and hold the spyglass.

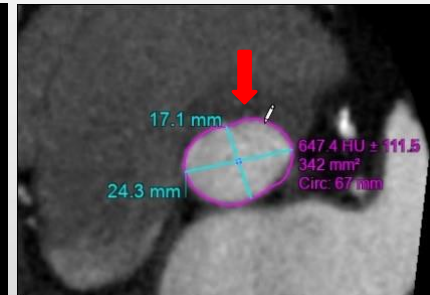
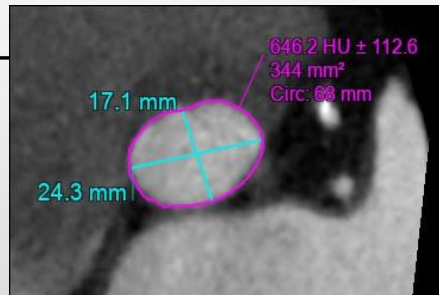


CT TAVR - Measure/Modify Annulus Size

Click **Annulus Size** in the findings list. The **ROI** tool will be active by default.



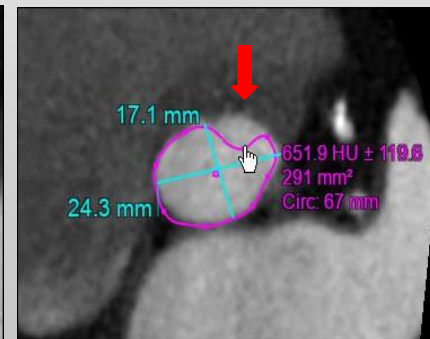
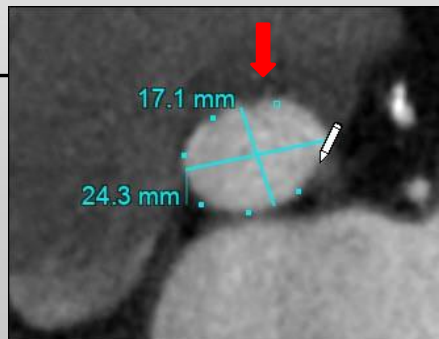
Double click in the axial image. Edit the size by **dragging the pencil** around the borders. You may **include or exclude** calcium.



Tip: The dots create points that can be repositioned if needed.

OR

Click around the **perimeter** of the area of interest placing **anchor points**. Double click to connect the points. **To edit**, re-draw with the pencil.

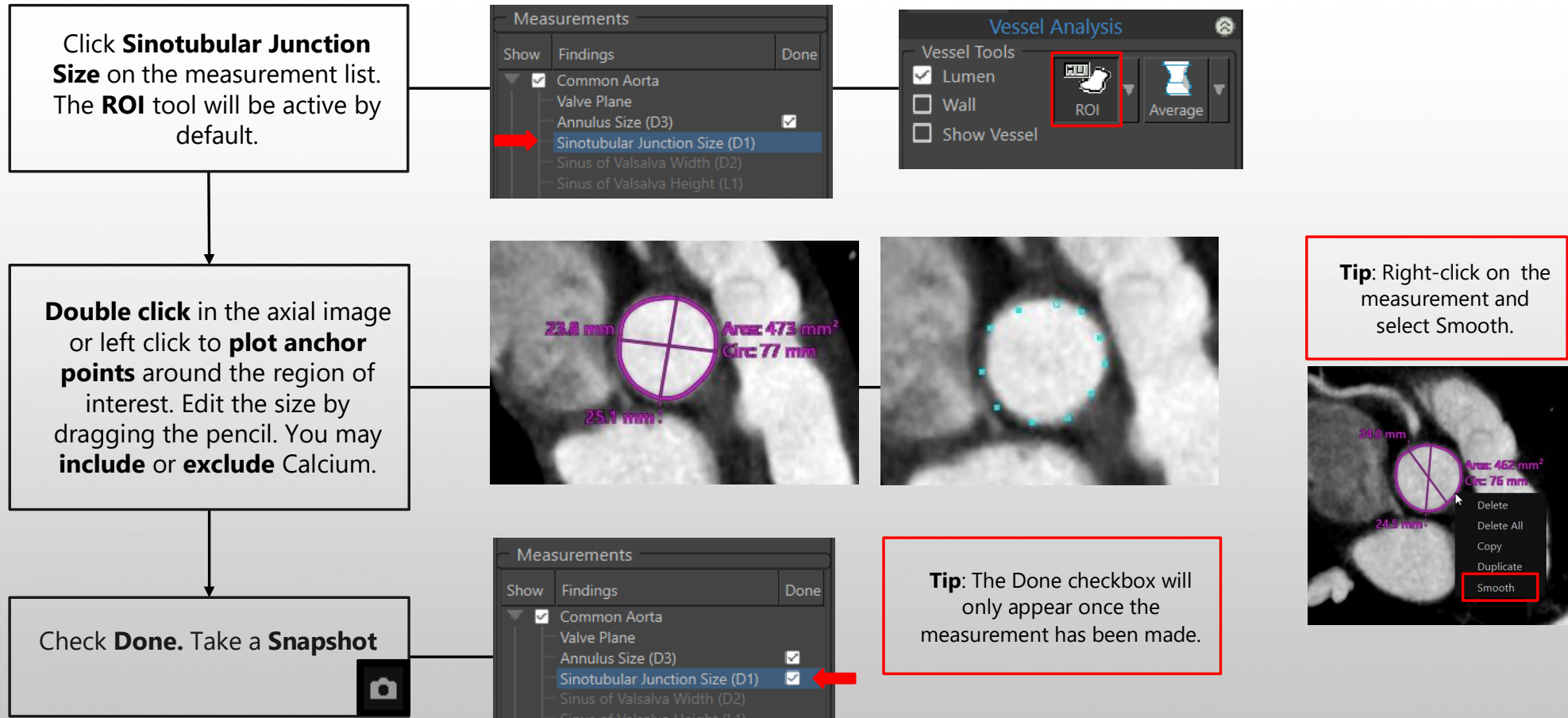


Tip: Only measurements selected as Done display on the Report.

Check the box in the **Done** column. Take a Snapshot.

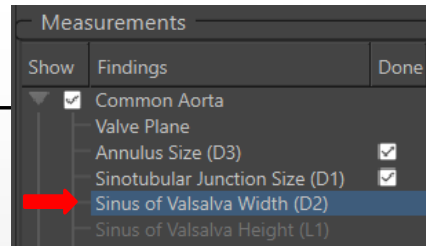


CT TAVR - Measure/Modify Sinotubular Junction Size

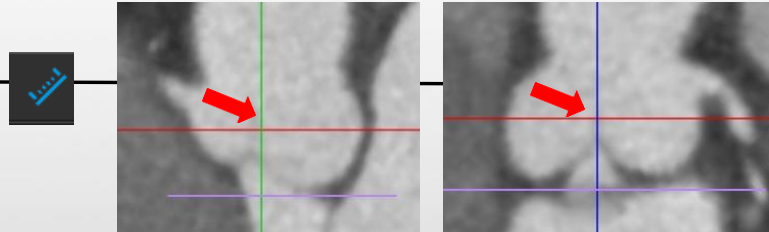


CT TAVR - Measure/Modify Sinus of Valsalva Width

Click **Sinus of Valsalva Width** in the Measurements list.

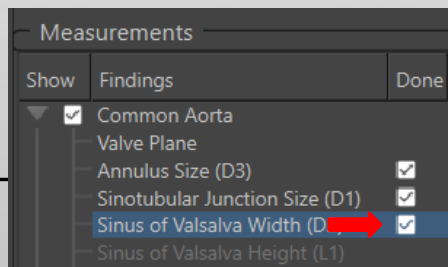


Activate the **crosshair** by pressing **H** on the keyboard. Drag the red line to the widest part. Select the ruler from the common tool bar.



Reminder:
Measure below the
Coronary Arteries

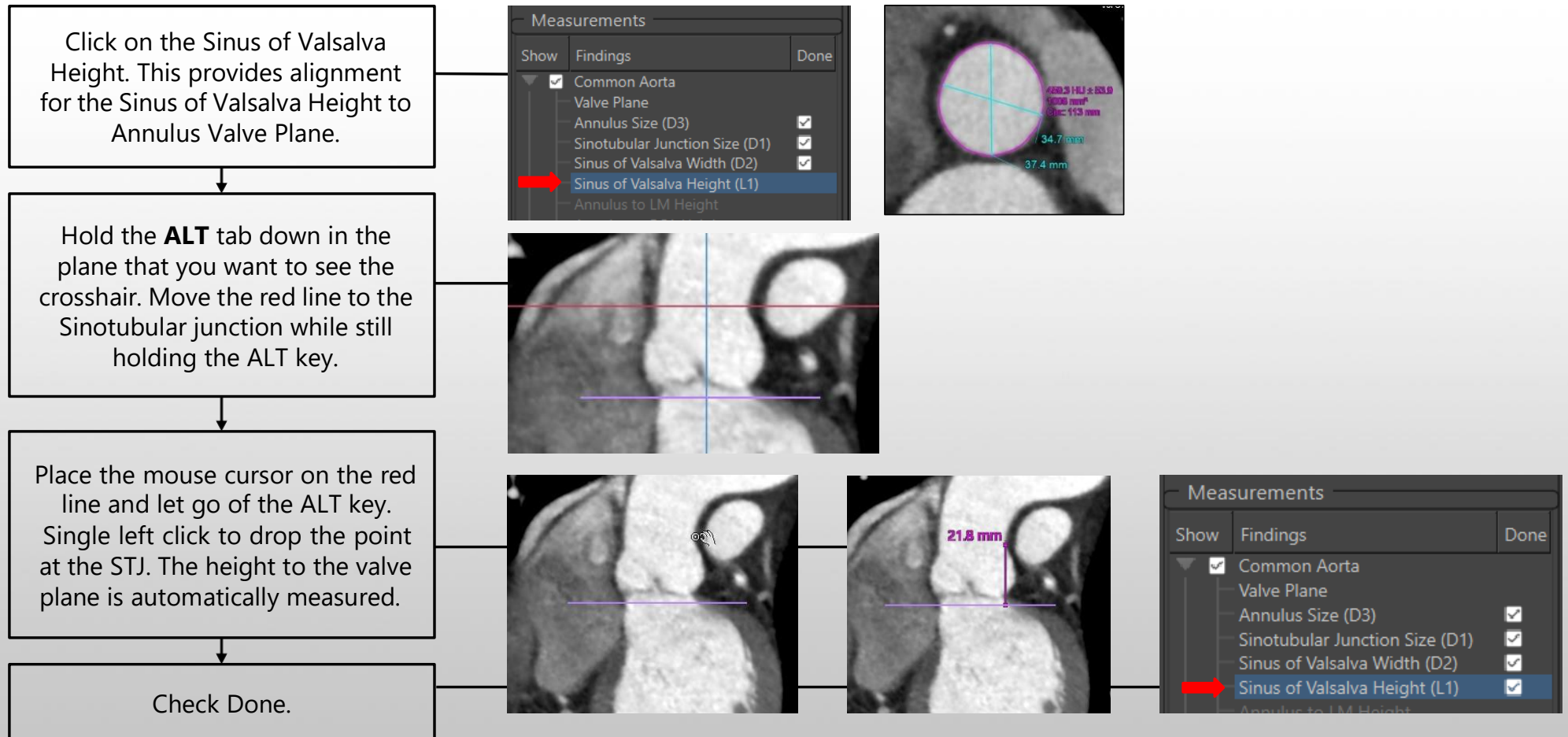
Left click and drag to draw the measurement. Measure across all three cusps. **Edit the measurement** by hovering over the end point and dragging it to a new location.



Check **Done**. Take a **Snapshot**.

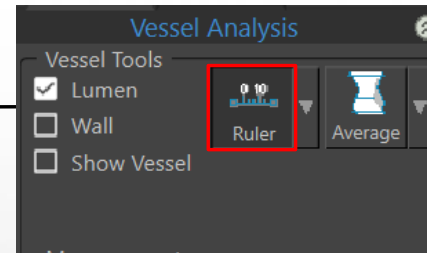
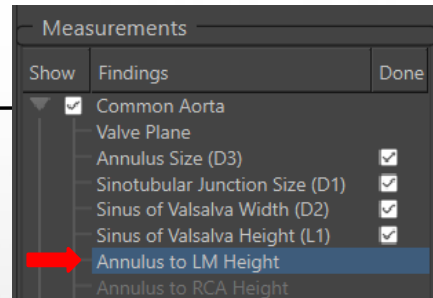


CT TAVR - Measure/Modify Sinus of Valsalva Height

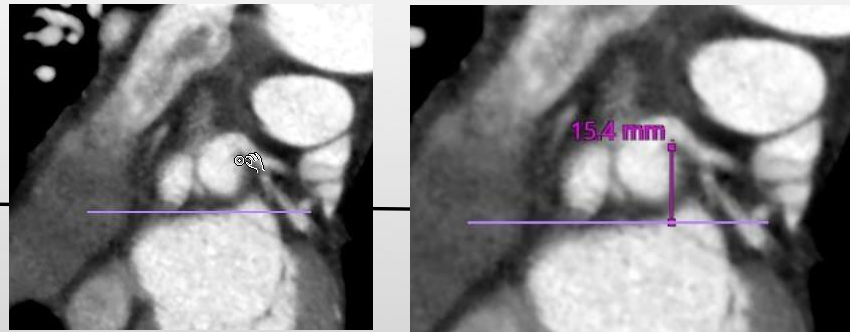


CT TAVR - Measure/Modify Annulus to LM Height

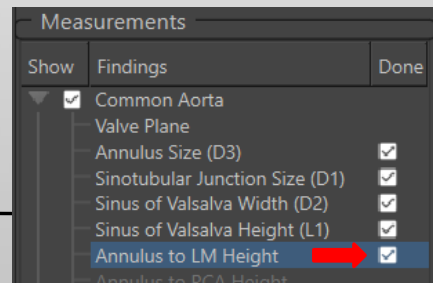
Click **Annulus to LM Height** on the measurement list. The **Ruler** will be active by default.



Locate the **Left Main ostia** on the coronal or sagittal view. Single left click to drop the point on the inferior edge of the ostia. The height is automatically measured.

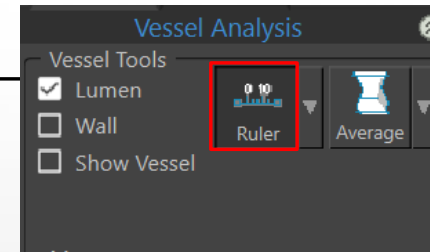
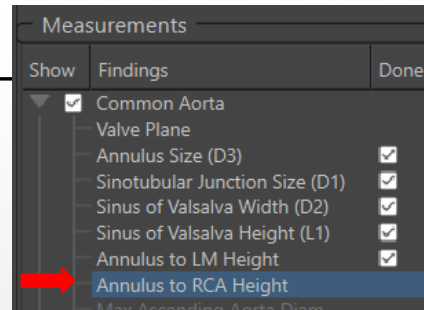


Check **Done**. Take a **Snapshot**.

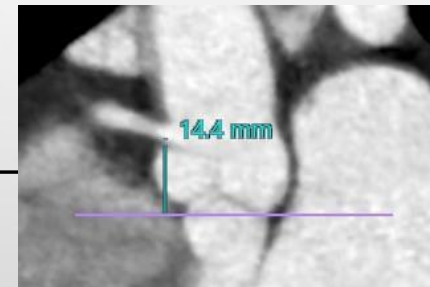


CT TAVR - Measure/Modify Annulus to RCA Height

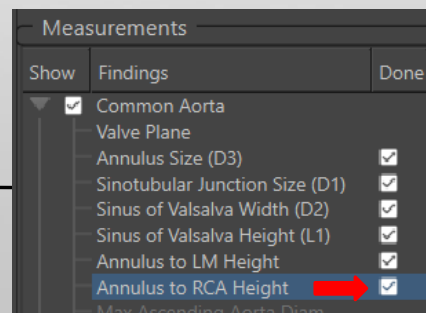
Click **Annulus to RCA Height** on the measurement list. The **Ruler** will be **active by default**.



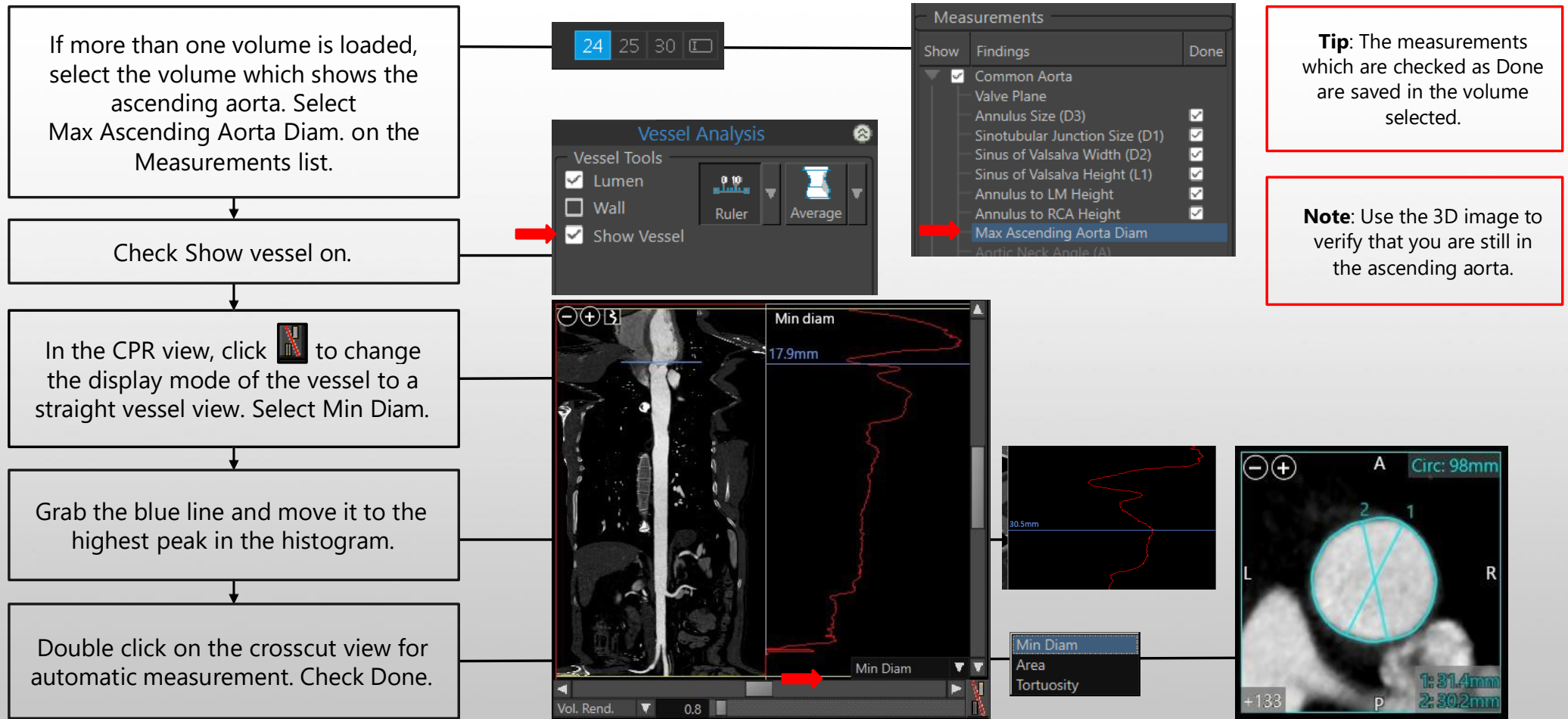
Locate the **ostia of the RCA** on the coronal or sagittal view. Single left click to drop the point on the inferior edge of the ostia. The height is automatically measured.



Check **Done**. Take a **Snapshot**.



CT TAVR - Measure/Modify Maximum Ascending Aorta Diameter

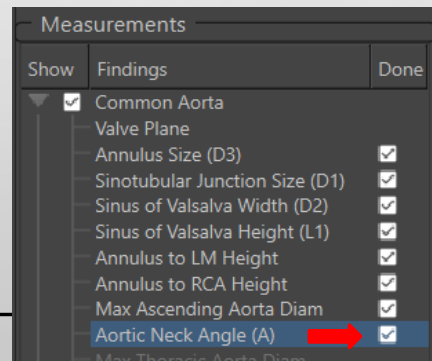
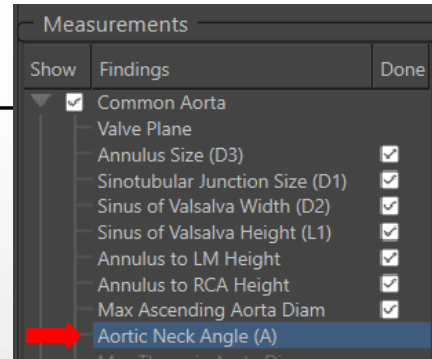


CT TAVR - Measure/Modify Aortic Neck Angle

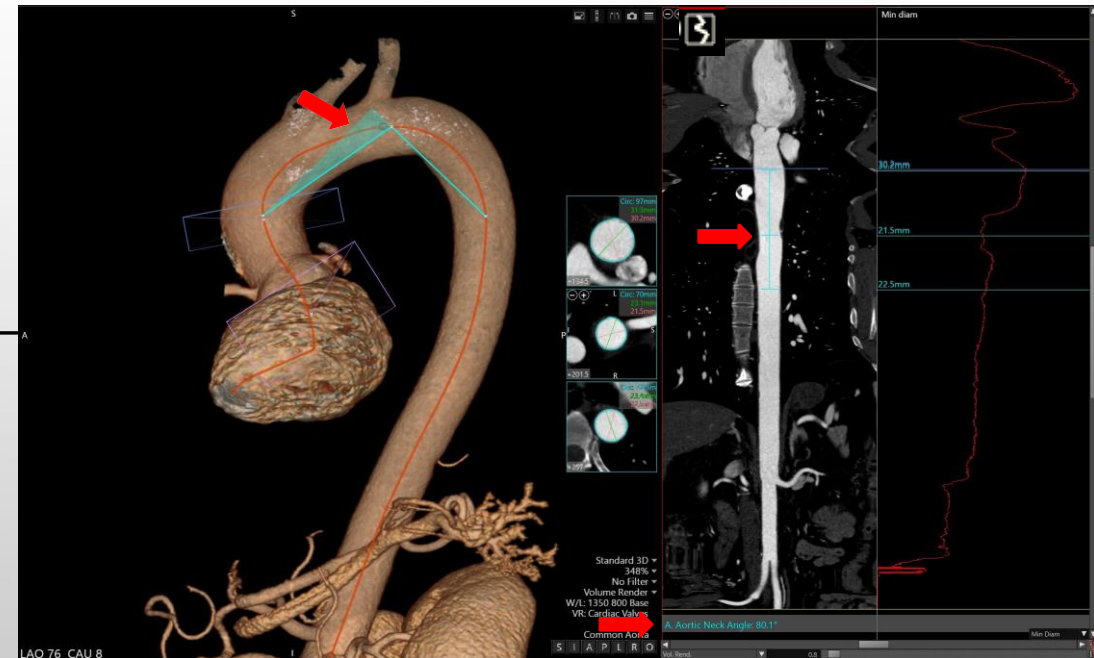
Click **Aortic Neck Angle** on the findings list. **Angle tool** is active by default.

Click to deposit the three point in the straightened CPR view.
Review the angle in the 3D image. Drag the lines on the CPR view to adjust the angle on the 3D view.

Check **Done**. Take a **Snapshot**.



Tip: Aortic Neck Angle is displayed.



Zoom tool is located on the CPR view.

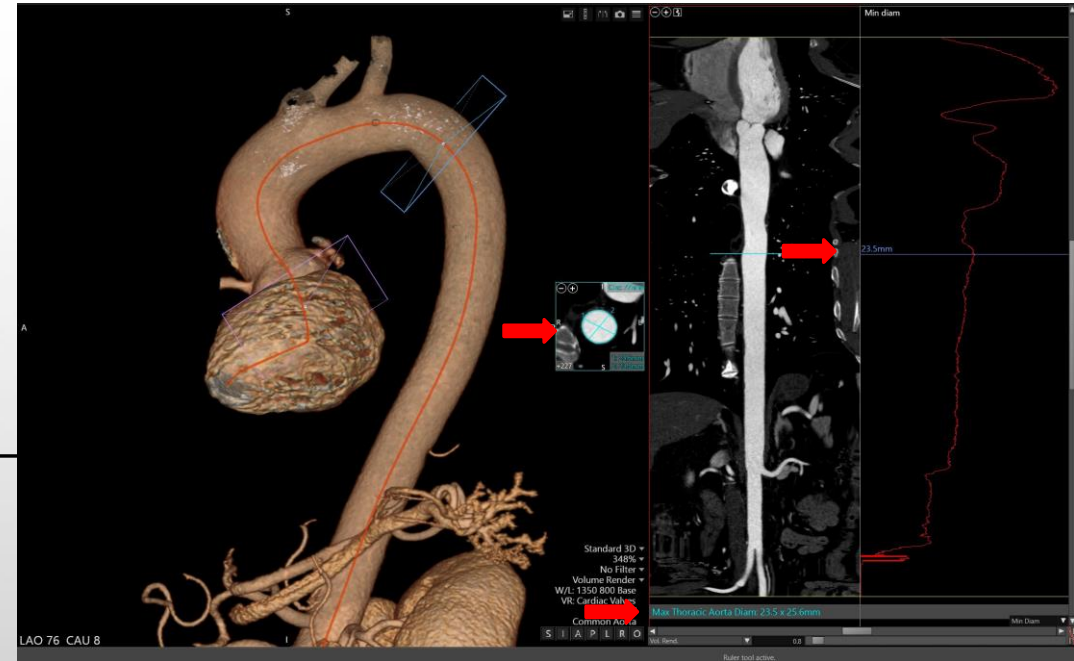
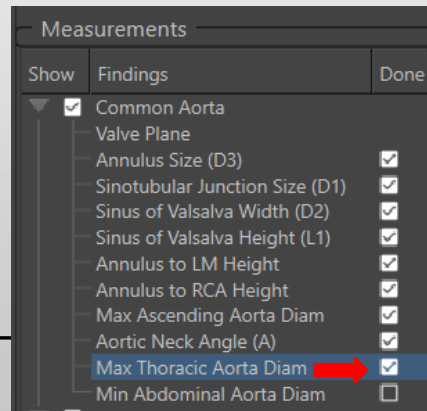
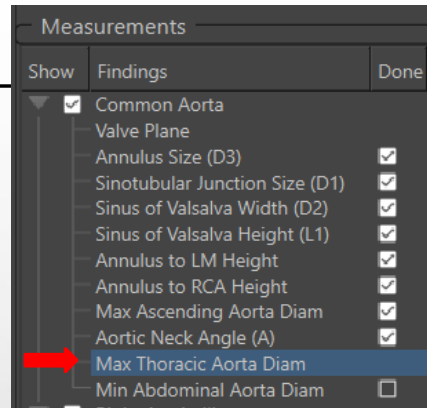
CT TAVR - Measure/Modify Maximum Thoracic Aorta Diameter

Click **Max Thoracic Aorta Diam** on the findings list. The **ruler** is automatically **activated**.

Click and **hold the mouse on the blue slider**. **Move** the blue slider **up and down**. The **axial ROI view** will **update** the measurement.

Locate the **maximum** measurement for the Max Thoracic Aorta Diameter **in the ROI box**.

Check **Done**. Take a **Snapshot**.



Tip: The histogram will display a small red curve.

CT TAVR - Measure/Modify Minimum Abdominal Aorta Diameter

Click **Min Abdominal Aorta Diam** on the Measurement list. The **ruler** is automatically **activated**.

Click and **hold the mouse on the blue slider**. Move the blue slider **up and down**. The **axial ROI view will update** the measurement. Locate the **minimum** measurement for abdominal aorta diameter.

Check **Done**. Take a **Snapshot**.

Show	Findings	Done
☒	Common Aorta	
	Valve Plane	☒
	Annulus Size (D3)	☒
	Sinotubular Junction Size (D1)	☒
	Sinus of Valsalva Width (D2)	☒
	Sinus of Valsalva Height (L1)	☒
	Annulus to LM Height	☒
	Annulus to RCA Height	☒
	Max Ascending Aorta Diam	☒
	Aortic Neck Angle (A)	☒
	Max Thoracic Aorta Diam	☒
	Min Abdominal Aorta Diam	☐
☒	Right Aortic-Iliac	

Show	Findings	Done
☒	Common Aorta	
	Valve Plane	☒
	Annulus Size (D3)	☒
	Sinotubular Junction Size (D1)	☒
	Sinus of Valsalva Width (D2)	☒
	Sinus of Valsalva Height (L1)	☒
	Annulus to LM Height	☒
	Annulus to RCA Height	☒
	Max Ascending Aorta Diam	☒
	Aortic Neck Angle (A)	☒
	Max Thoracic Aorta Diam	☒
	Min Abdominal Aorta Diam	☒
☒	Right Aortic-Iliac	

Tip: The histogram will display a small red curve.

CT TAVR - Right and Left Common Iliac

Click the **Right Common Iliac**.
Ruler will be active by default.

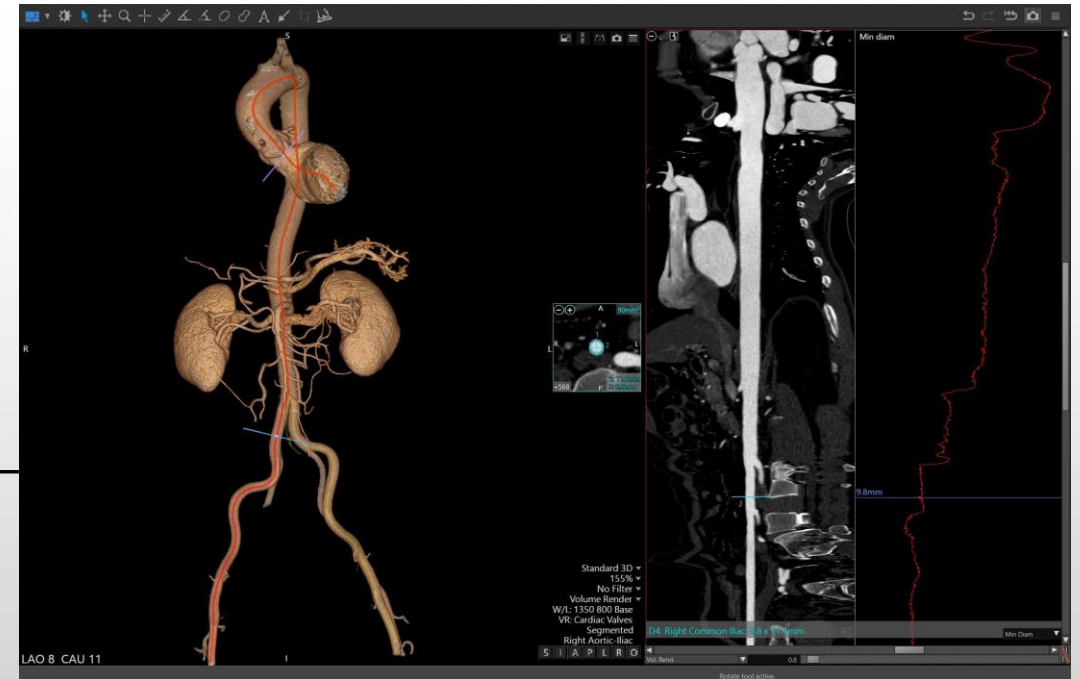
Click and **hold the mouse** on the **blue slider**. Move the blue slider **up and down**. The **axial ROI** view will **update** the measurement. Locate the **minimum measurement** for Right and Left Common Iliac.

Check **Done**. Take a **Snapshot**.



Measurements		
Show	Findings	Done
☒	Common Aorta	
	Valve Plane	
	Annulus Size (D3)	☒
	Sinotubular Junction Size (D1)	☒
	Sinus of Valsalva Width (D2)	☒
	Sinus of Valsalva Height (L1)	☒
	Annulus to LM Height	☒
	Annulus to RCA Height	☒
	Max Ascending Aorta Diam	☒
	Aortic Neck Angle (A)	☒
	Max Thoracic Aorta Diam	☒
	Min Abdominal Aorta Diam	☒
☒	Right Aortic-Iliac	
	Right Common Iliac (D4)	☐
	Right External Iliac	☐
	Right Femoral	☐
	Max Tortuosity Right Iliac	☐
☒	Left Aortic-Iliac	
	Left Common Iliac (D5)	☐
	Left External Iliac	☐
	Left Femoral	☐
	Max Tortuosity Left Iliac	☐

☒	Min Abdominal Aorta Diam	☒
☒	Right Aortic-Iliac	
	Right Common Iliac (D4)	☒
	Right External Iliac	☐
	Right Femoral	☐
	Max Tortuosity Right Iliac	☐
☒	Left Aortic-Iliac	
	Left Common Iliac (D5)	☐
	Left External Iliac	☐
	Left Femoral	☐
	Max Tortuosity Left Iliac	☐



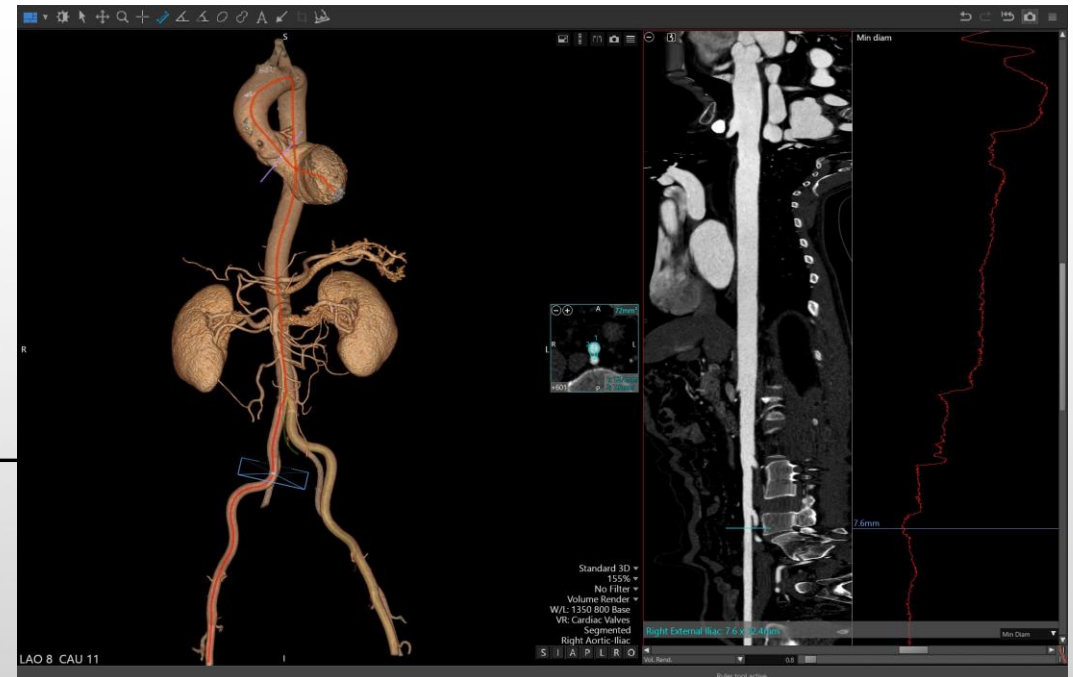
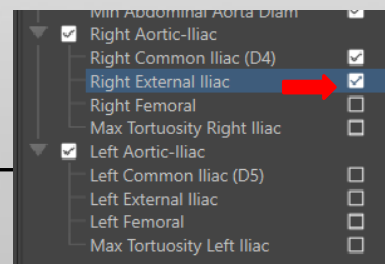
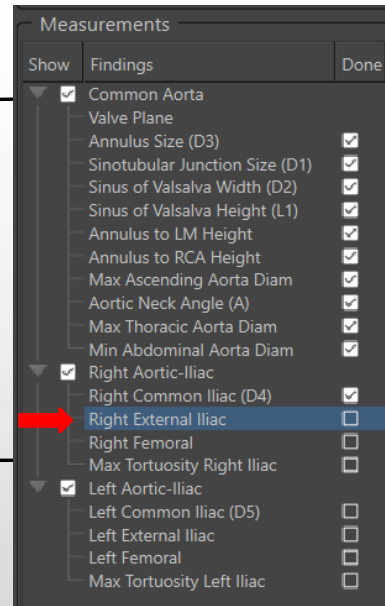
Repeat for the other Left
Common Iliac

CT TAVR - Right and Left External Iliac

Click the **Right External Iliac**.
Ruler will be active by default.

Click and **hold** the **mouse on the blue slider**. **Move** the slider **up and down**. The **axial ROI** view will **update** the measurement.
Locate the diameter measurement for Right or Left External Iliac in the **ROI box**.

Check **Done**. Take a **Snapshot**.



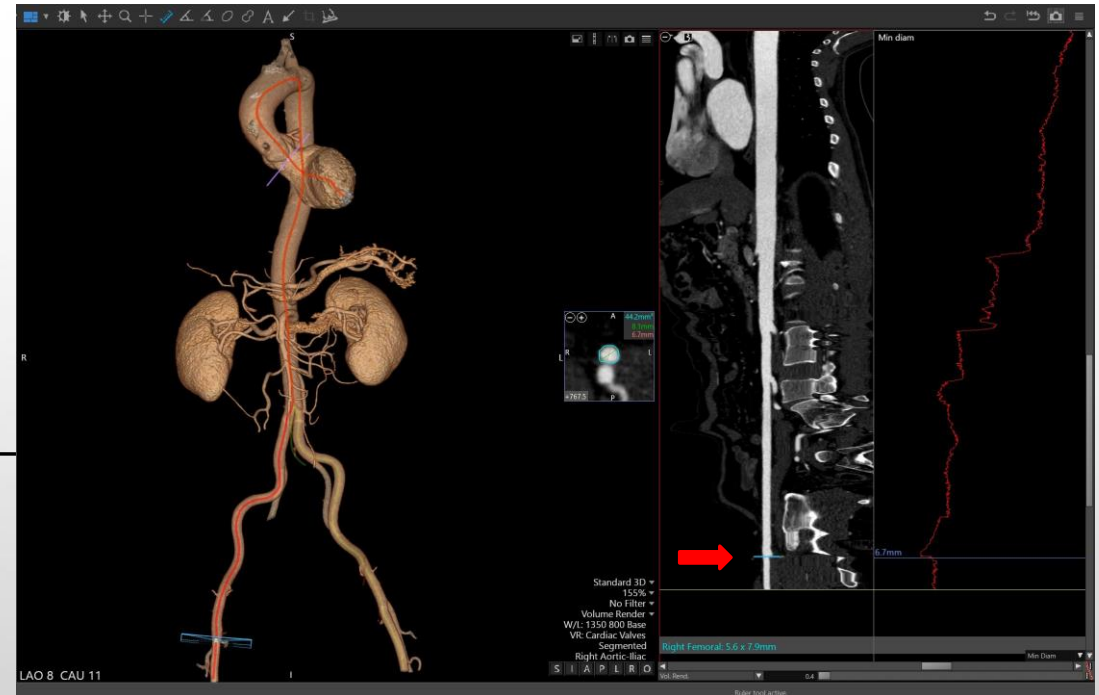
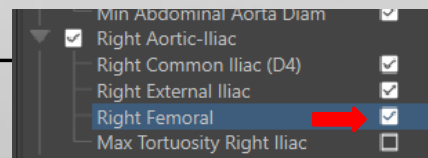
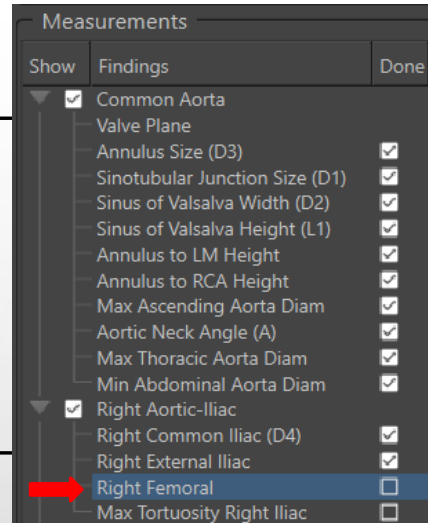
Repeat for the Left External Iliac.

CT TAVR - Right and Left Femoral

Click the **Right Femoral. Ruler** will be active by default.

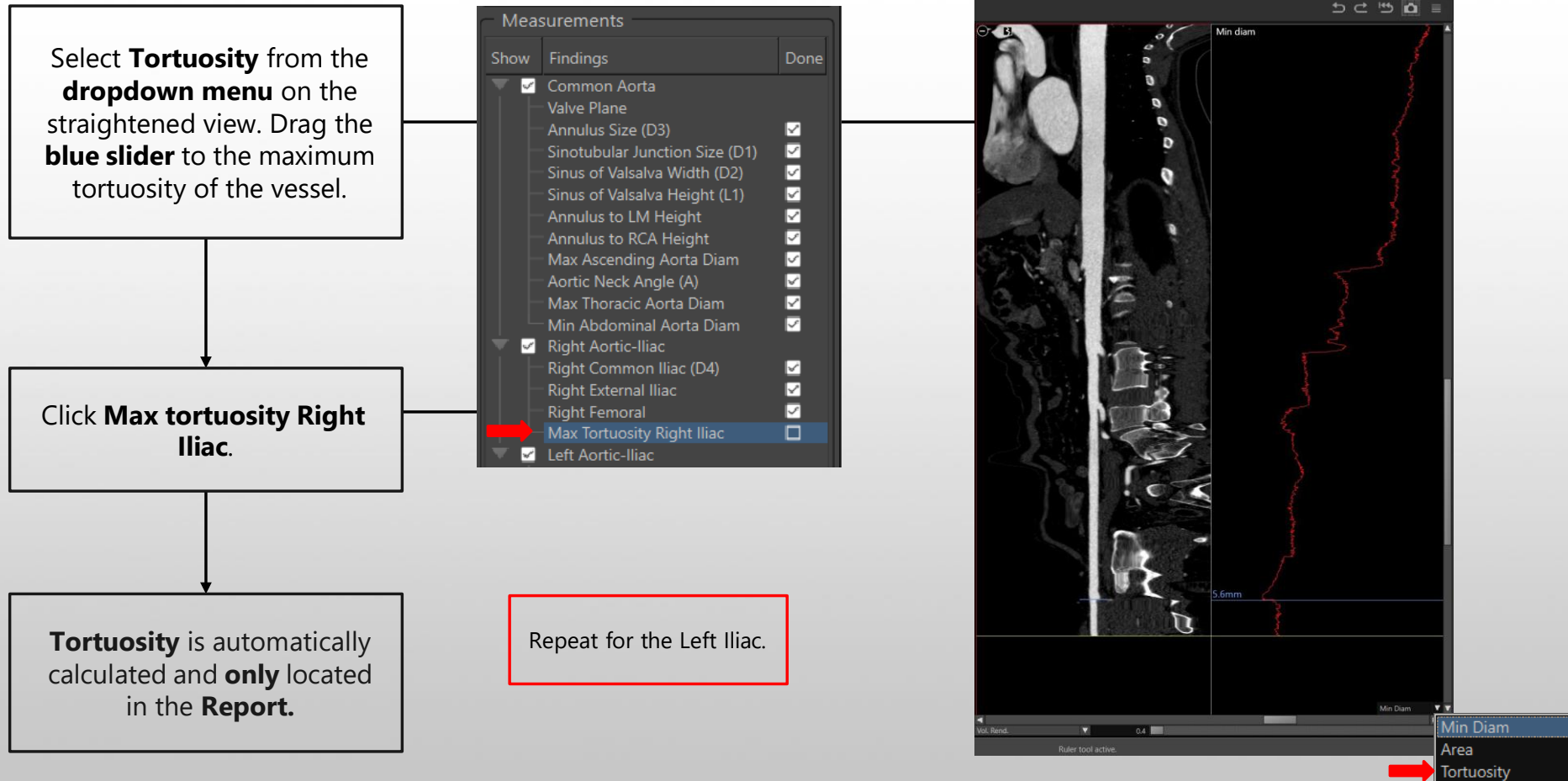
Click and **hold the mouse** on the **blue slider**. **Move the slider up and down**. The **axial ROI view** will **update** the measurement. Locate the **diameter measurement** for Right or Left femoral artery in the **ROI box**.

Check **Done**. Take a **Snapshot**.

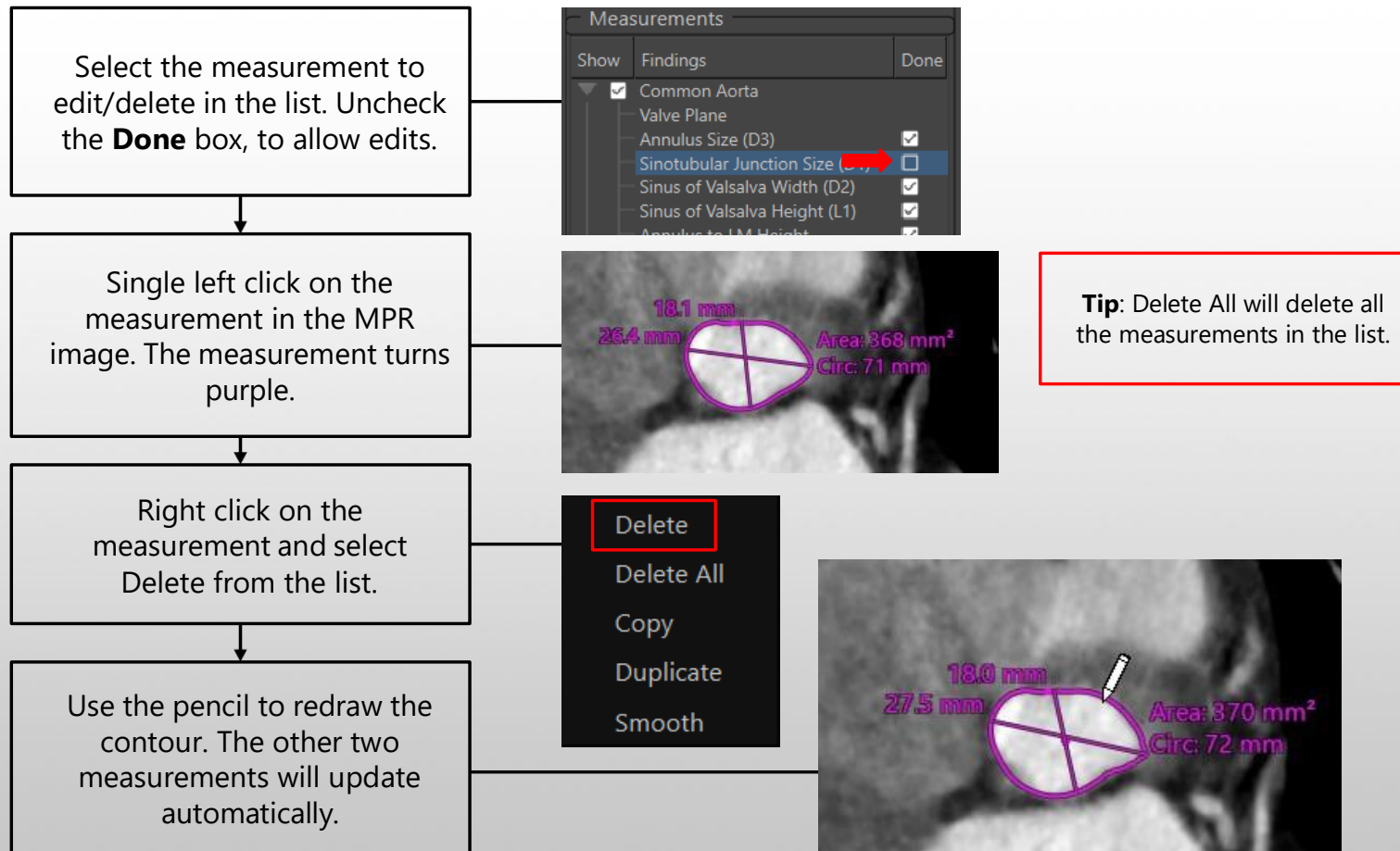


Repeat for the Left Femoral.

CT TAVR - Max tortuosity Right Iliac

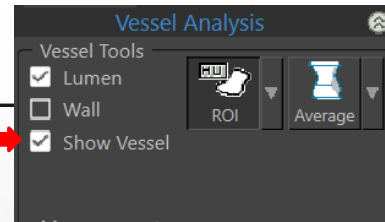


CT TAVR – Delete/Edit Measurement



CT TAVR – Create and Measure from a Baseline Point

To create a fixed point or **Baseline** to measure from –
Check on Show Vessel.



Move the **blue line** to the position to set Baseline. In this example the Annulus is used. Right-click in the cross-vessel view and select **Set Baseline Here**.



Edit Centerline

Edit Contours

Centerline

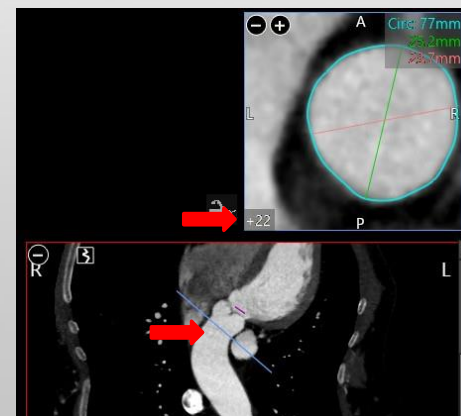
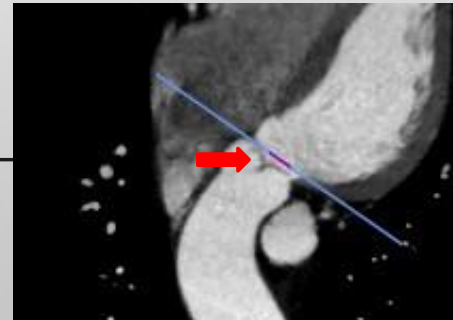
Overview

Measurement Options ▶

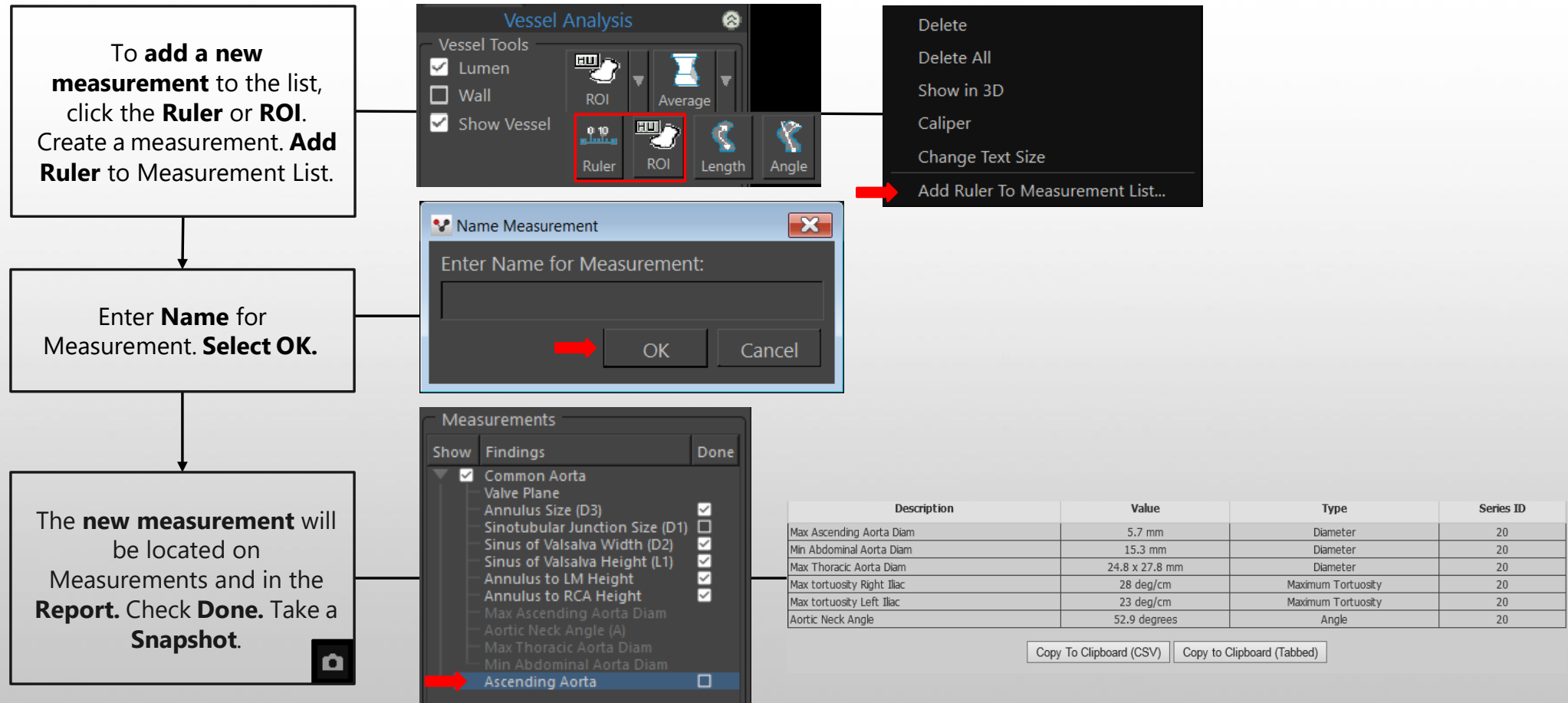
Set Threshold Line

Set Baseline Here

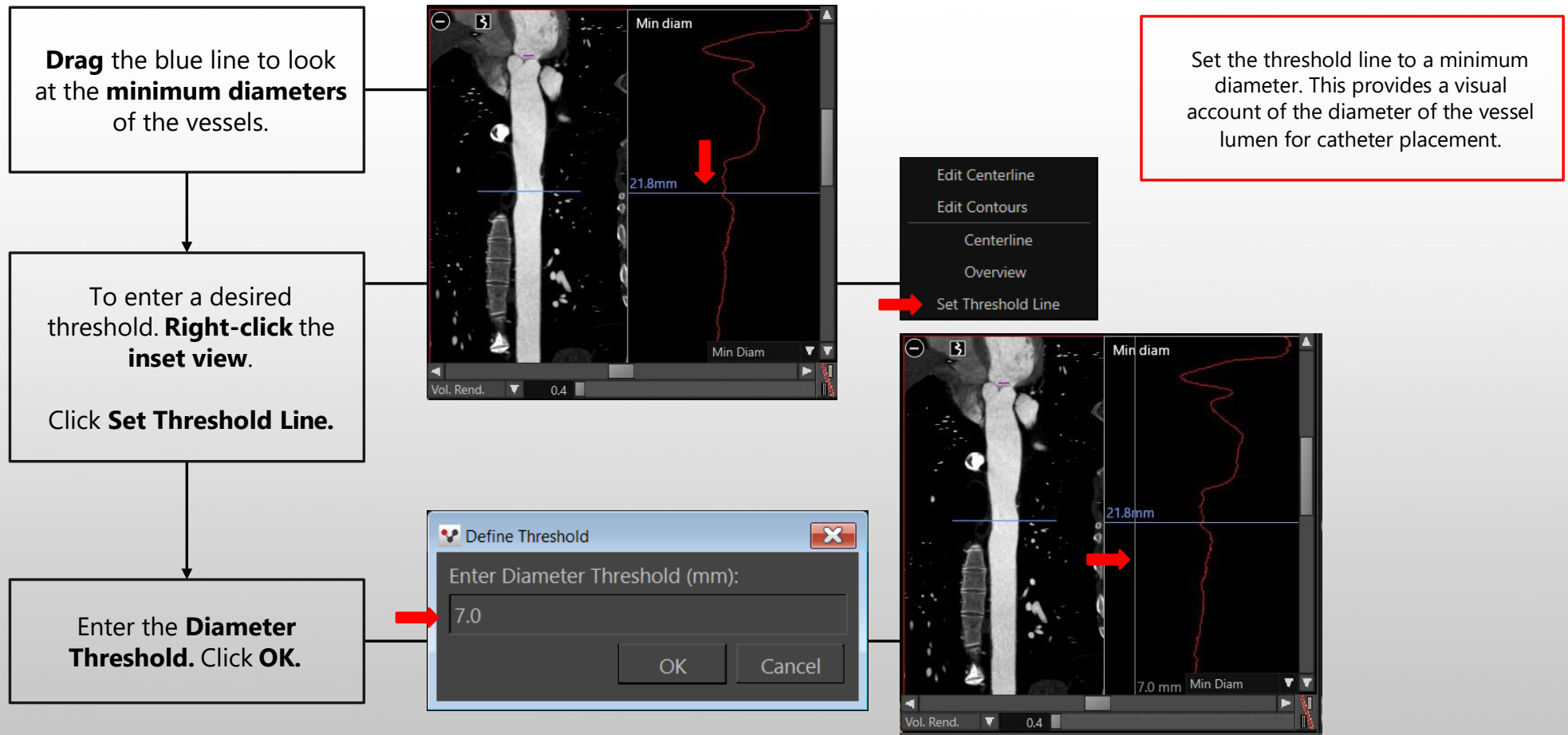
The **Cross Vessel view** is set to Zero and a small pink dash is set in the Curved Vessel Image. As you move the blue line and data away from that mark the mm numbers keep pace.



CT TAVR - Add New Measurements



CT TAVR - Diameter Threshold



CT TAVR - Aortic Calcium View

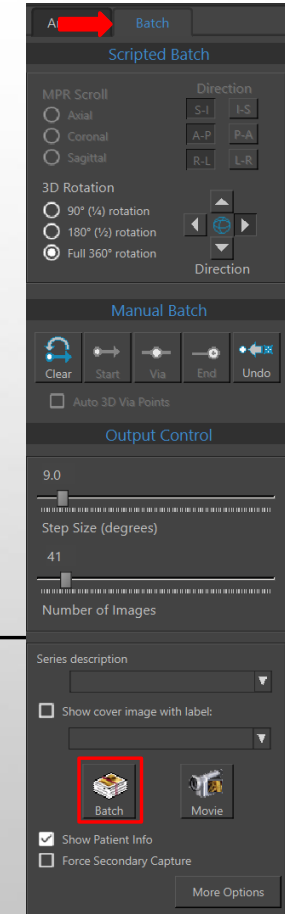
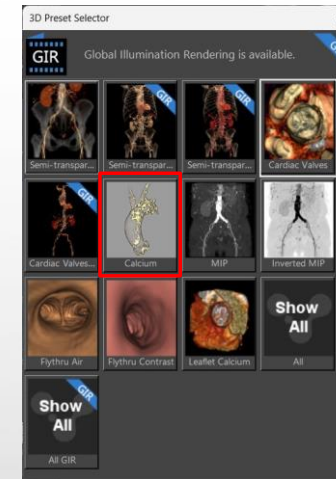
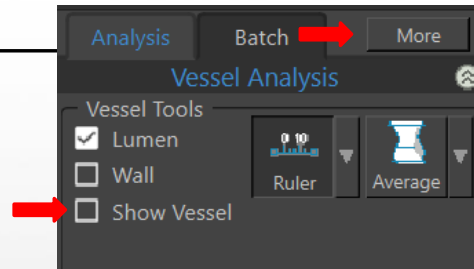
Uncheck **Show Vessel**. Click on the More button next to Batch to get access to the vascular tools.

Click on **Win/Lev**. The crosshair is removed from the image.

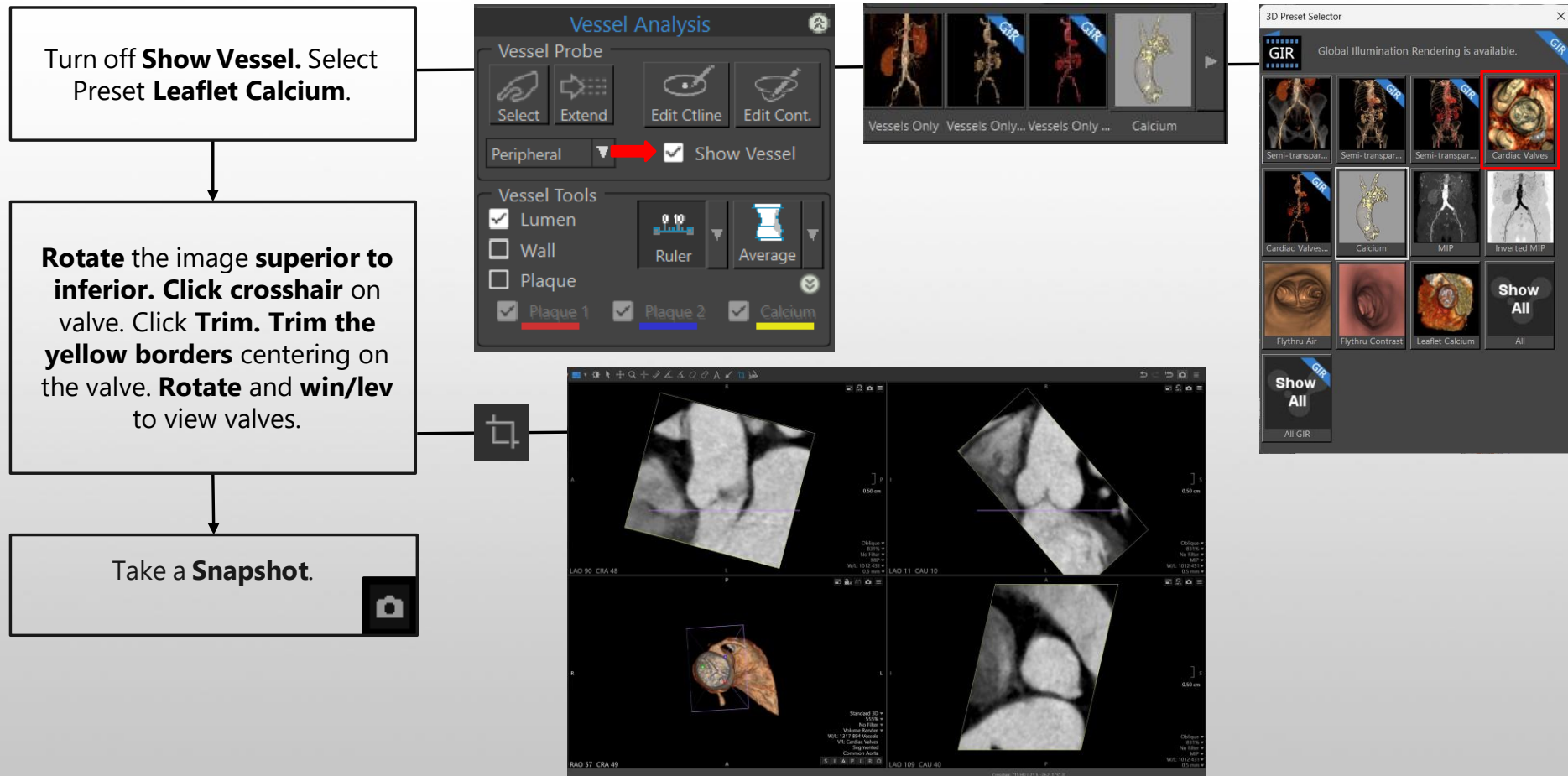
Select Preset **Calcium**.

Batch the series.

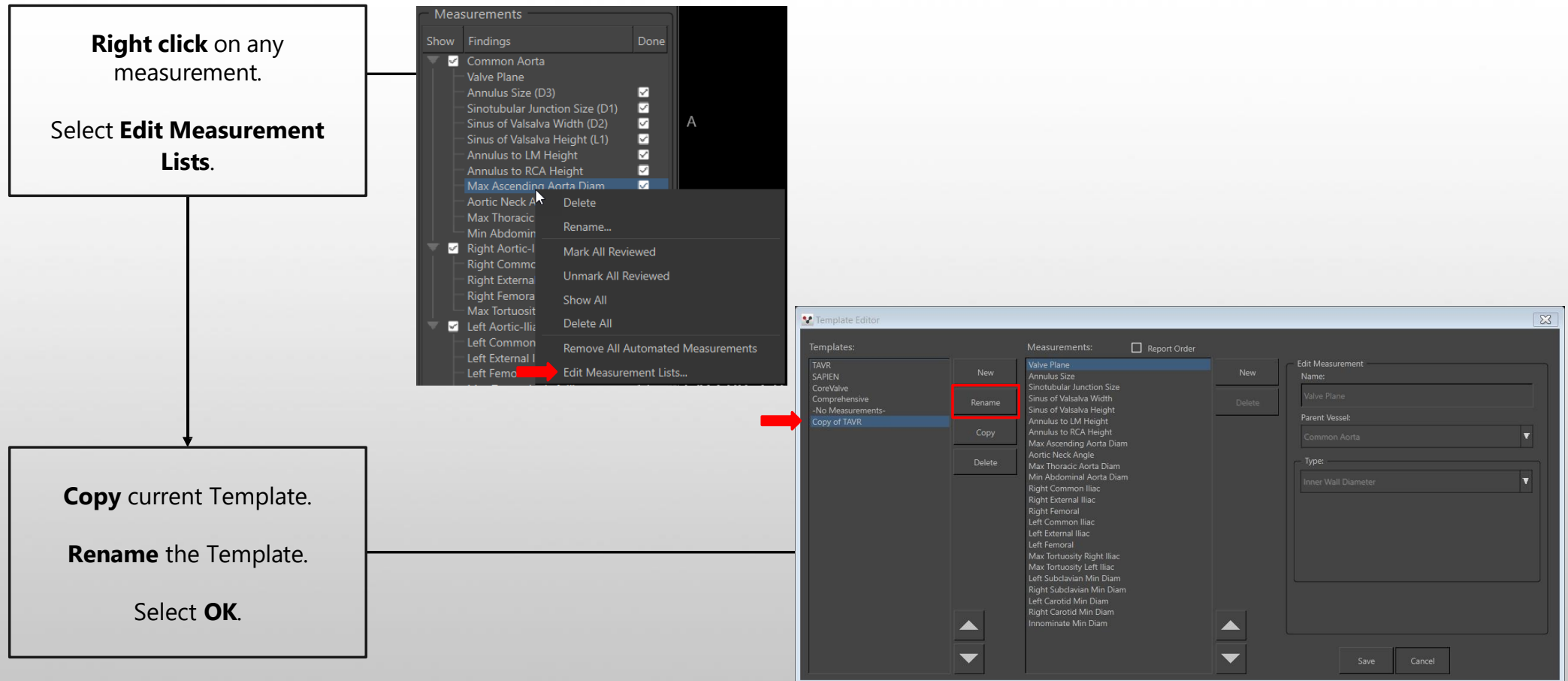
AP and Oblique views are helpful.
Take a **Snapshot**.



CT TAVR - Leaflet Calcium View

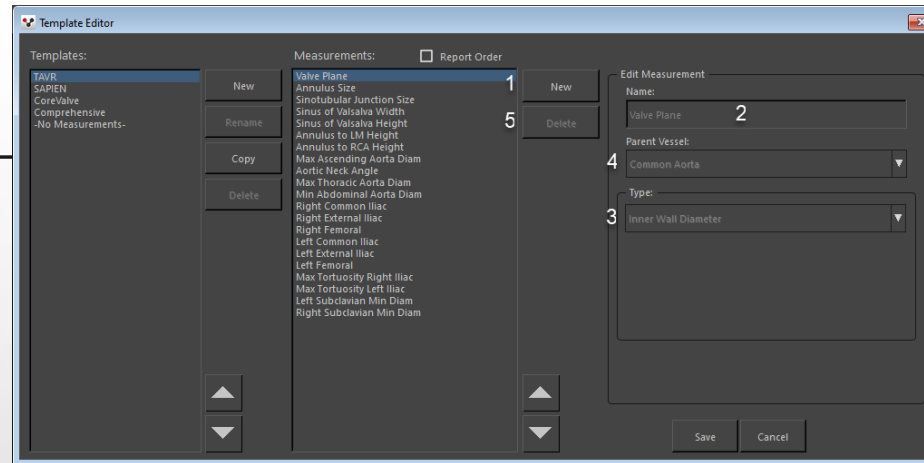


CT TAVR - Modify/Create New Template

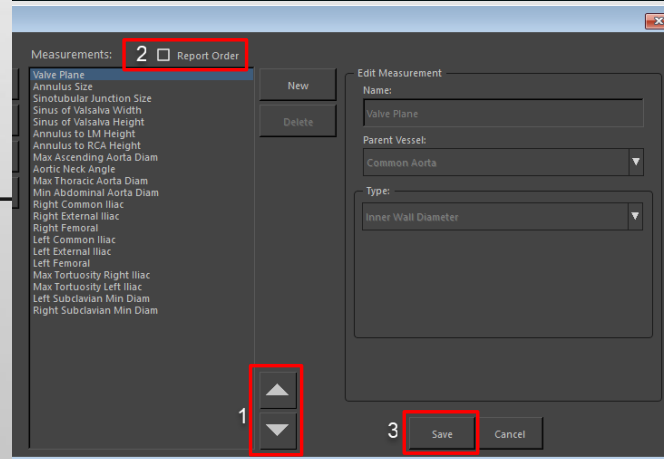


CT TAVR – Modify/Create New Template

Select New (1). Name your measurement(2). **Select** the Associated Tool(3). **Select** the Parent Vessel(4). **Delete** any measurements you do not want to keep(5).

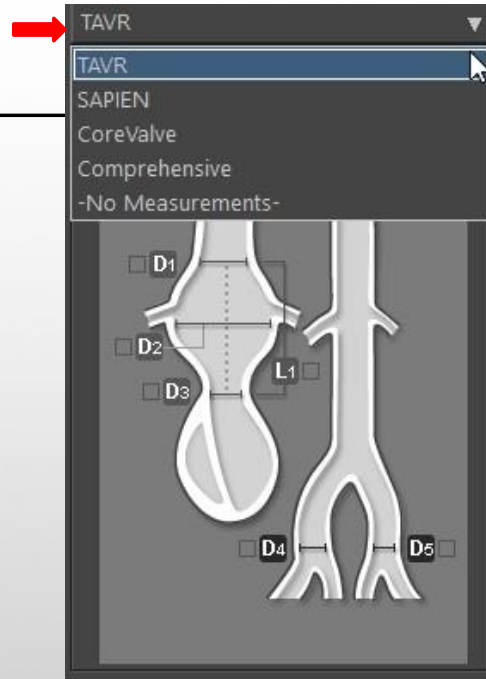


Click the up and down arrows (1) to rearrange the order of the measurements. **Click the Report Order box (2)** to rearrange the order of the measurements in the Report. Select **Save (3)**.



CT TAVR - Modify/Create New Template

Modified template is located under the **template menu**.



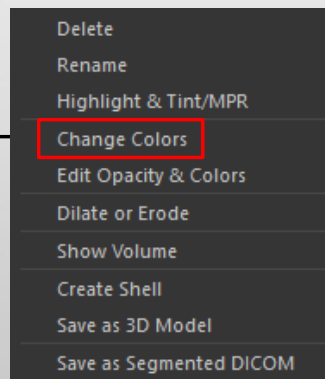
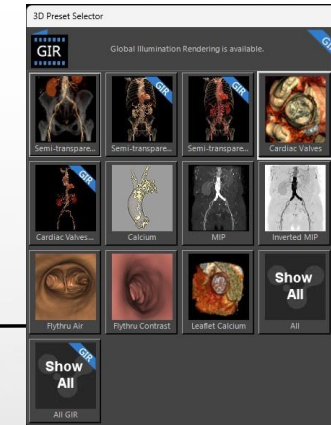
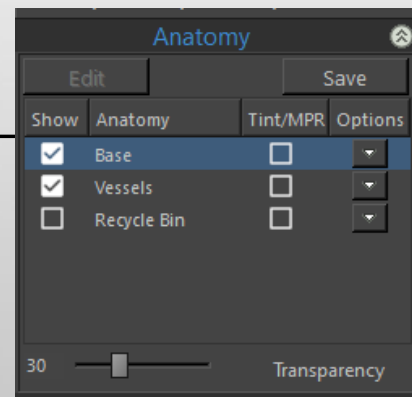
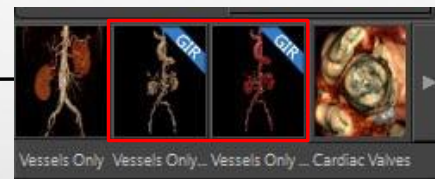
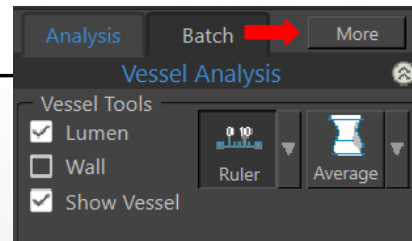
CT TAVR – Apply GIR to 3D View

Click on the More button next to Batch to expand the anatomy folder.

Select one of the presets with a blue GIR ribbon in the top right corner. Click on the arrow to find additional GIR presets.

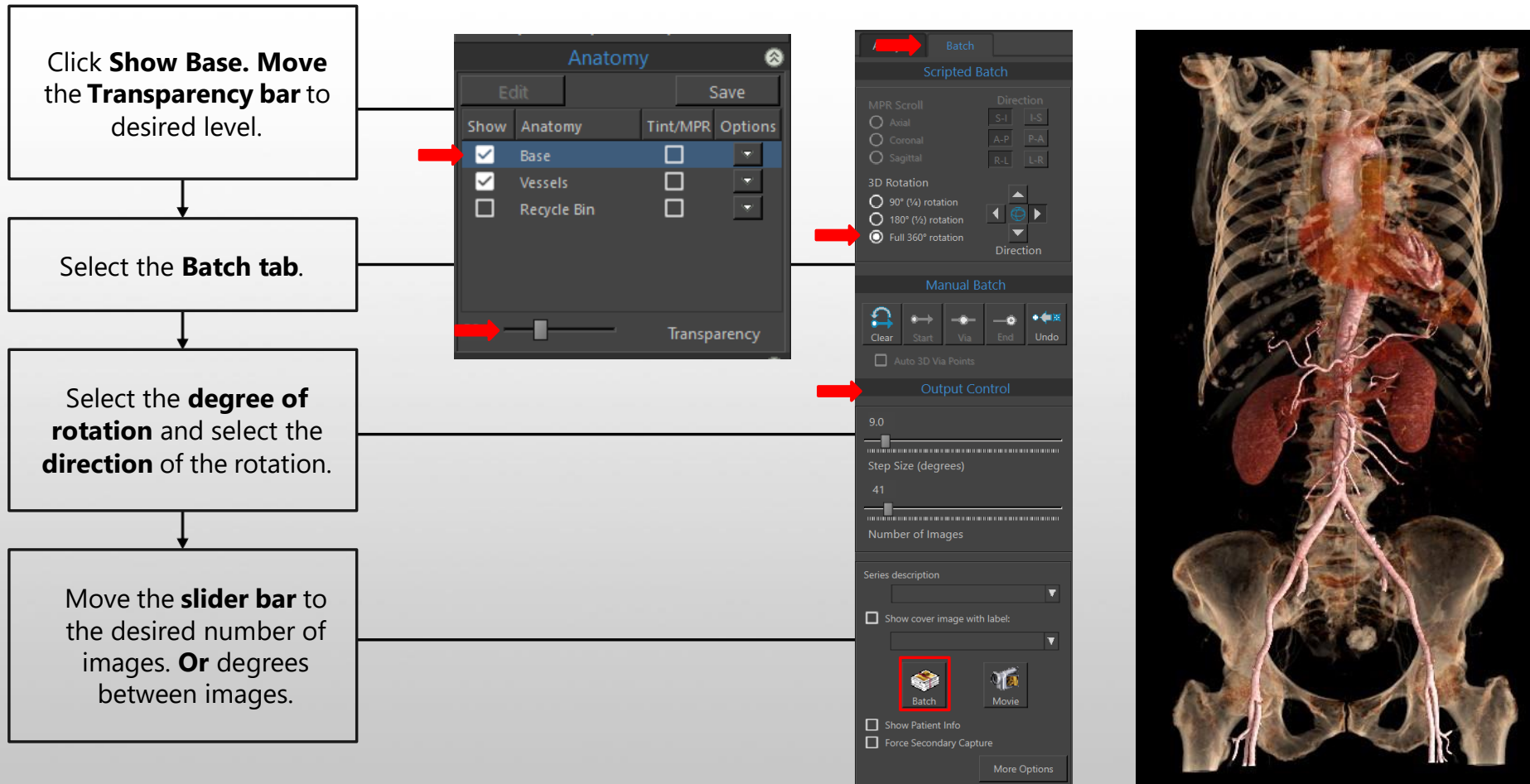
Select the region in the anatomy management list. Click on the arrow under options and select Change Colors.

Here the user can find additional GIR presets.



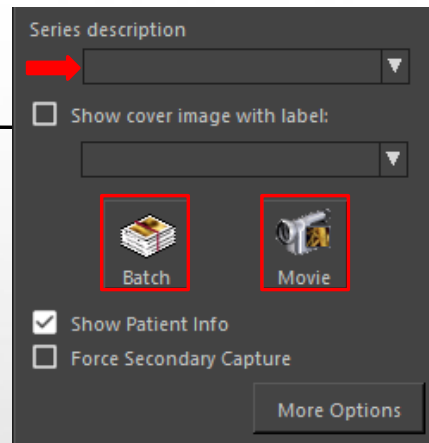
Tip: Segmentation of the anatomy will provide more GIR presets. Use the standard segmentation tools to segment additional organs.

CT TAVR - Semi Transparent Batch Rotation

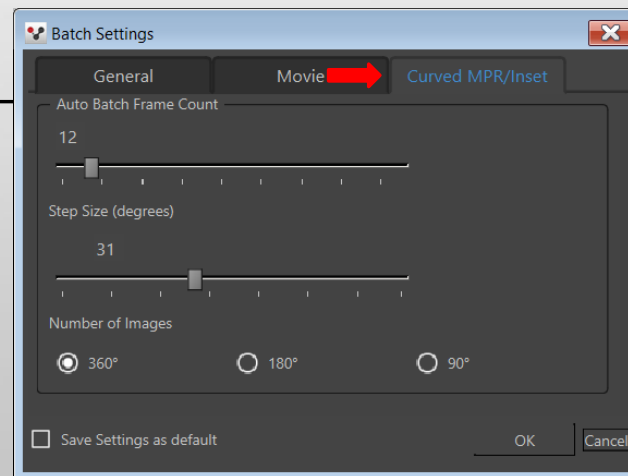


CT TAVR - Semi Transparent Batch Rotation

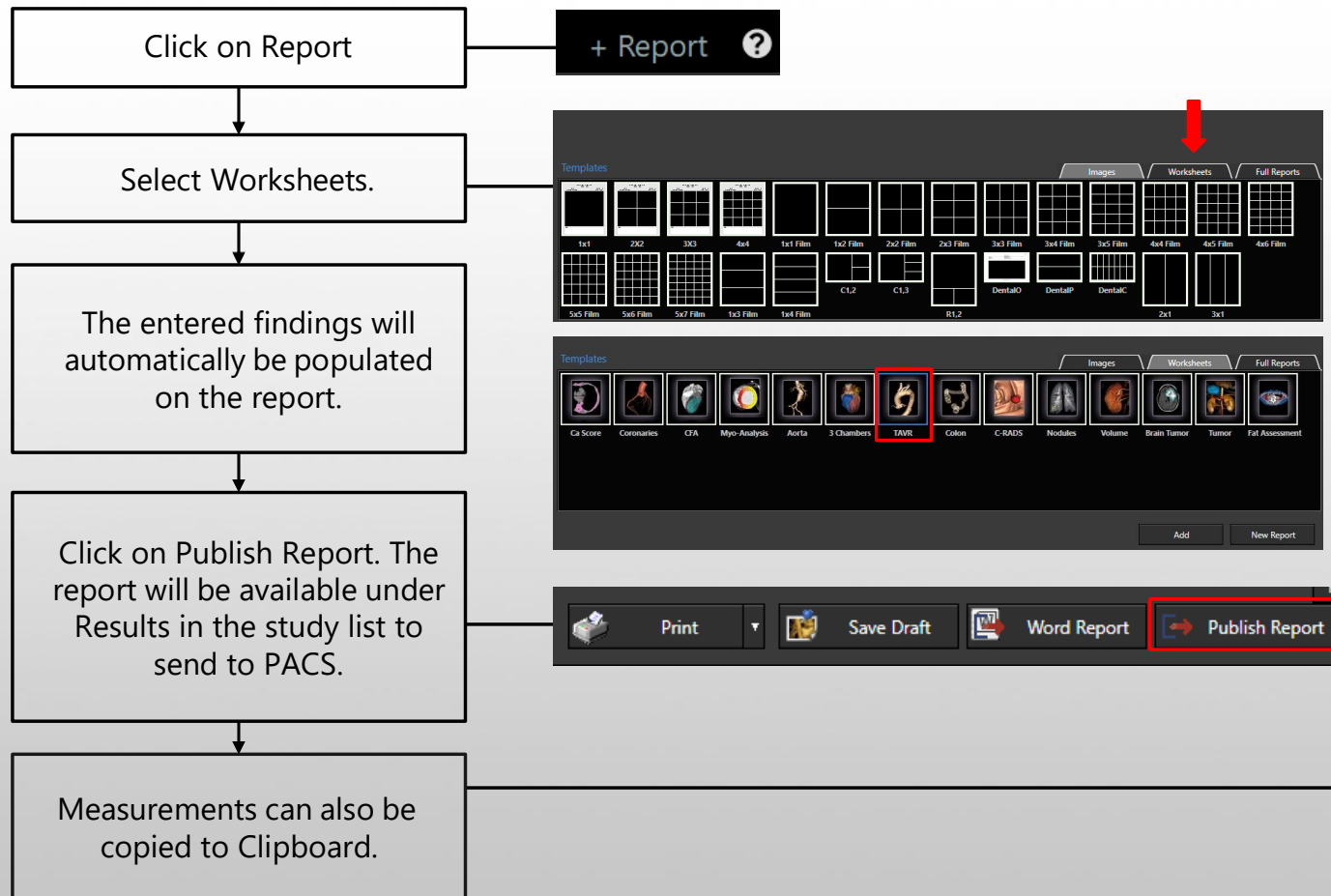
Type the name in the **Series Description**. Click **Batch** for PACS. Click **Movie** for presentations.



Choose **More Options** to **Modify Batch** settings.



CT TAVR – Report Findings



REMOVED

TAVR

Patient ID: EA1P-CV-469
 Patient Name: TAVI VOL/HEL
 Date of Birth: ---
 Gender: O

Referring Physician: 190723-01
 Exam Type: RSNA 2019
 Study Date: 2000.01.01-08:00 AM
 Report Date: Jul 8, 2022, 20:51

TEMPLATE: TAVR

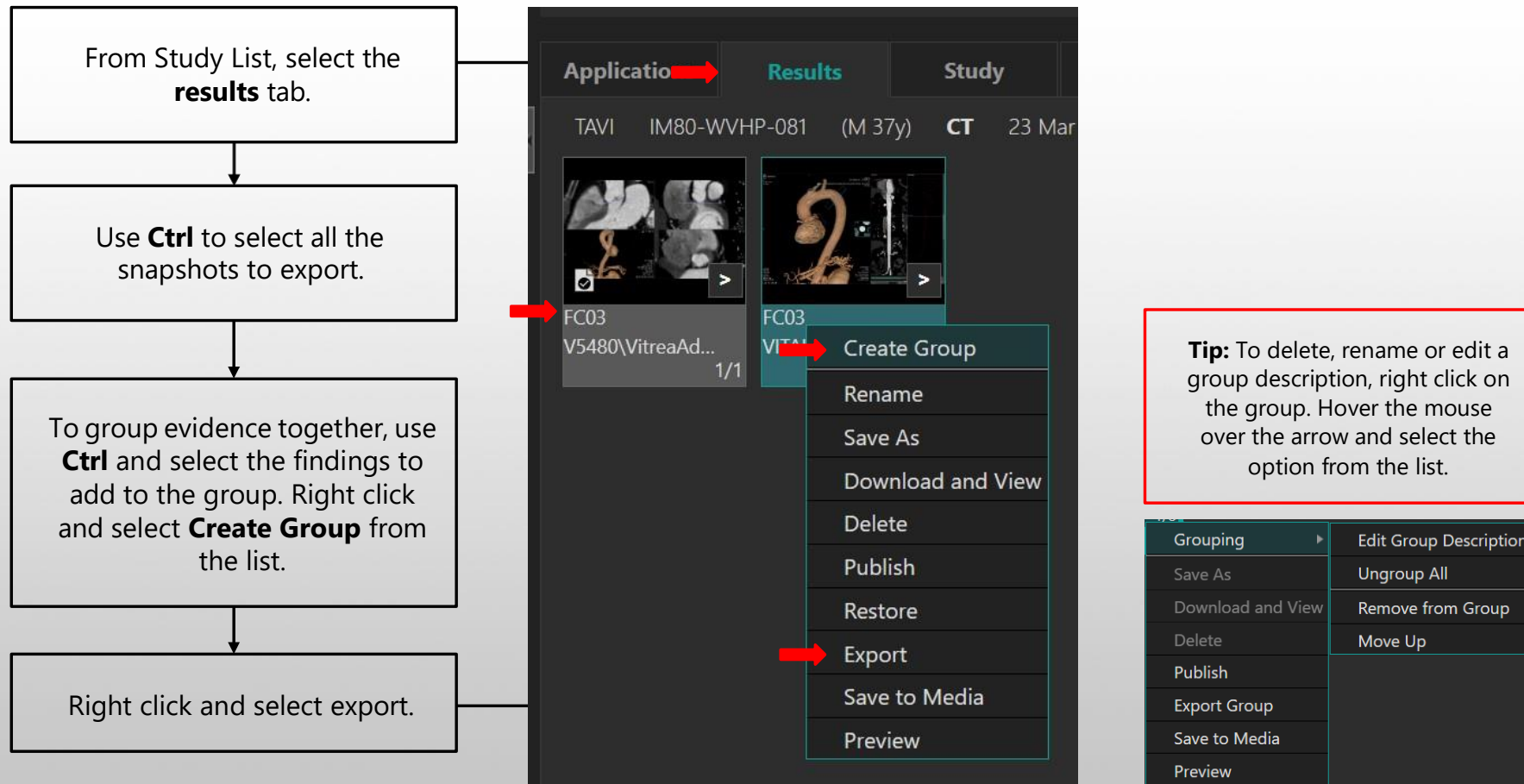
Description	Value	Type	Series ID
Annulus Size	67 mm	Circumference	Access 1
Annulus Size	329 mm ²	Area	Access 1
Annulus Size	18.0 x 23.1 mm	MPR Ruler	Access 1
Sinotubular Junction Size	72 mm	Circumference	Access 1
Sinotubular Junction Size	416 mm ²	Area	Access 1
Sinotubular Junction Size	22.6 x 23.4 mm	MPR Ruler	Access 1
Sinus of Valsalva Width	17.2 mm	MPR Ruler	Access 1
Sinus of Valsalva Height	13.3 mm	MPR Ruler	Access 1
Annulus to LM Height	10.4 mm	MPR Ruler	Access 1
Annulus to RCA Height	10.4 mm	MPR Ruler	Access 1
Max Ascending Aorta Diam	28.4 x 30.2 mm	Diameter	40
Aortic Neck Angle	89.1 degrees	Angle	40
Max Thoracic Aorta Diam	20.1 x 21.3 mm	Diameter	40
Min Abdominal Aorta Diam	9.9 x 11.9 mm	Diameter	40
Right Common Iliac	6.8 x 9.3 mm	Diameter	40
Right External Iliac	6.0 x 7.5 mm	Diameter	40
Right Femoral	4.3 x 10.3 mm	Diameter	40
Left Common Iliac	5.6 x 8.4 mm	Diameter	40
Left External Iliac	5.6 x 6.6 mm	Diameter	40
Left Femoral	4.0 x 6.5 mm	Diameter	40
Max Tortuosity Right Iliac	12 deg/cm	Maximum Tortuosity	40
Max Tortuosity Left Iliac	22 deg/cm	Maximum Tortuosity	40

Copy To Clipboard (CSV) Copy To Clipboard (Tabbed)

Comments: Enter Comments Here.

Print Save Draft Word Report Publish Report

CT TAVR - Distribute Findings: Export



CT TAVR - Distribute Findings: Export

Select the relevant DICOM destination.

Click on Export.

Export Studies

Content

☒ 1 Results, reports, and groups selected
☐ Add studies
0 Studies | 0 Results | 0 Reports | 1 Groups will be exported

Destination

No destination archives were found in the system configuration

Options

☐ Include annotations on images
☐ Exclude non-dicom results
☐ Exclude all restorable results

☐ Exclude large Vitrea restorable images
☐ Convert to grayscale
Change all series descriptions:

Edit Patient or Anonymize

☐ Edit Patient ☐ Anonymize

Export

Cancel

Appendix

CT TAVR - Auto Centerline

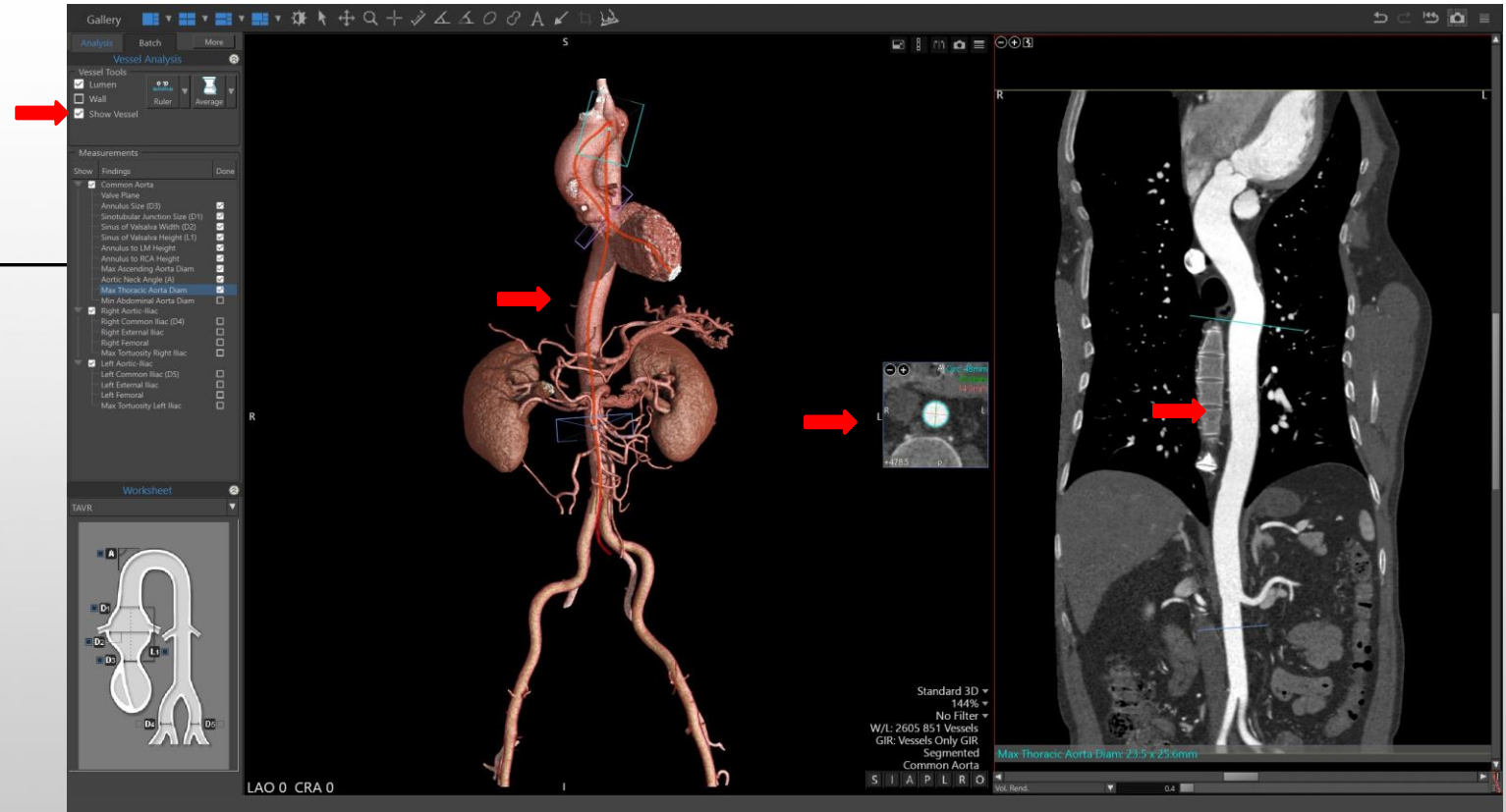
The software automatically:

Removes bone

Creates a centerline for the:

- ▶ **Common Aorta**
- ▶ **Right-Aortic Iliac**
- ▶ **Left-Aorta Iliac**

A 3D, curved planar reformatted view and a cross-vessel view are displayed when Show vessel is selected.

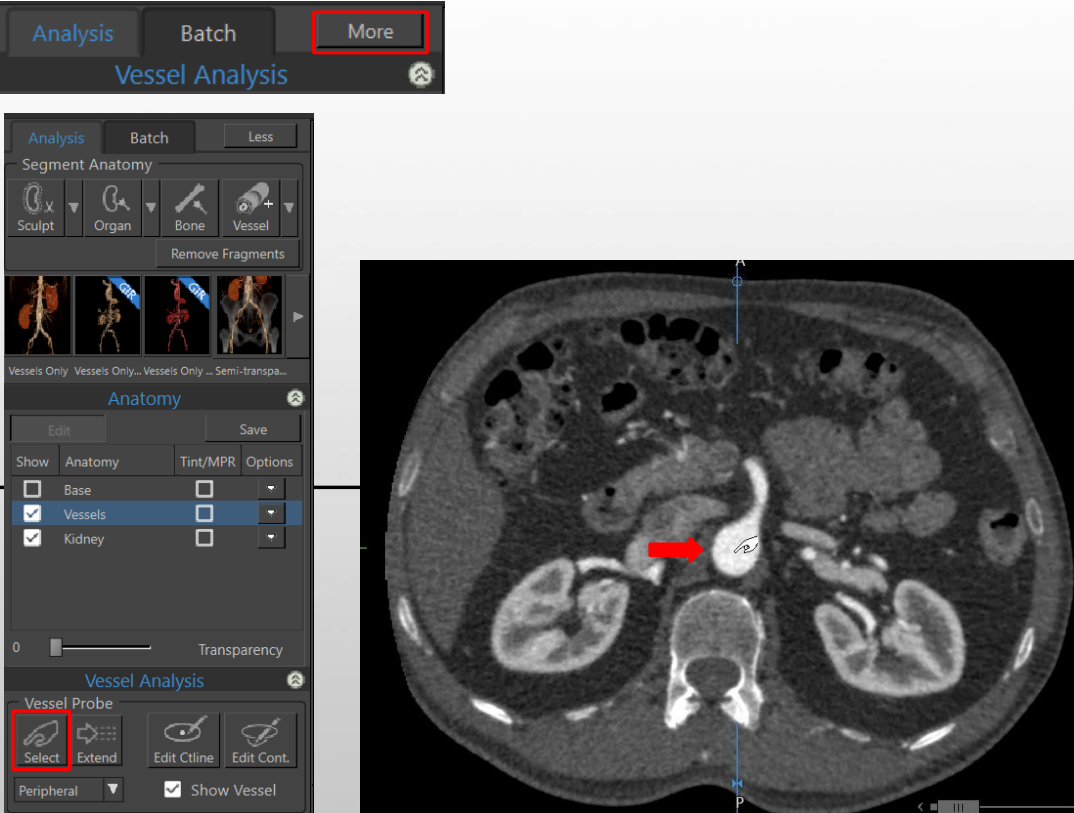


CT TAVR - Vessel Analysis Functions

- If the software fails to automatically track the vessels it might be necessary to use the vessel analysis tools.

Click the More button next to **Batch** to expand the work list.

Vessel Analysis Tools will be visible. Click on Select under Vessel Analysis and select the vessel on the 2D or 3D image.



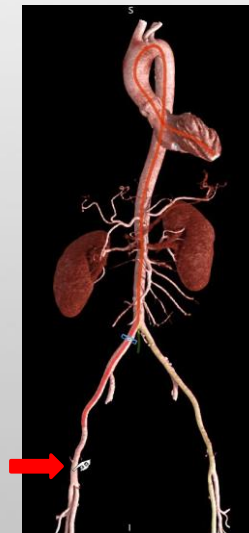
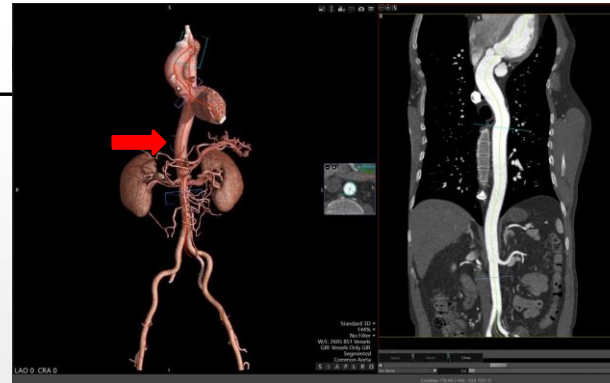
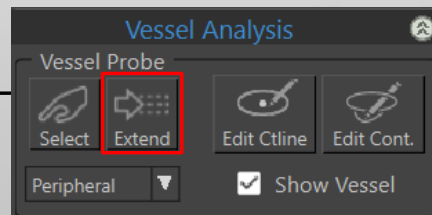
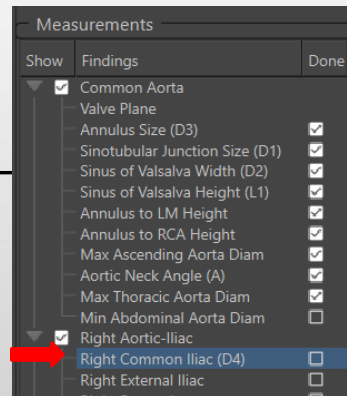
The screenshot displays the software interface for CT TAVR. The top panel shows 'Analysis', 'Batch', and 'More' buttons, with 'More' highlighted by a red box. Below this is the 'Vessel Analysis' panel, which includes a 'Segment Anatomy' section with icons for 'Sculpt', 'Organ', 'Bone', and 'Vessel'. The 'Vessel' icon is selected. The 'Anatomy' section shows a list of vessels: 'Base', 'Vessels', and 'Kidney'. The 'Vessels' checkbox is checked. The 'Vessel Analysis' section at the bottom has a 'Vessel Probe' with a 'Select' button highlighted by a red box. To the right of the interface is a CT scan image of a cross-section of the abdomen, showing the kidneys and the aorta. A red arrow points to the aorta, and a blue line indicates a measurement or selection point on the vessel.

CT TAVR - Vessel Extend

Review the centerline for the Common Aorta, Right Aortic-Iliac and Left Aortic-Iliac.

It may be necessary to extend the vessel proximal or distal. Locate the measurement you wish to extend. Click on the name of the vessel.

Click Extend. Click inside the lumen of the vessel proximal or distal to the end point.



CT TAVR - Verify and Edit Centerline

Verify the Centerline for accuracy.

To edit the centerline, right-click on the CPR view. Select **Edit Centerline**.

Click and **deposit points** to **adjust the centerline**.

Click **Apply** when complete. Click **Close** to end.

Red line shows edited centerline. **Yellow** line shows current centerline.



CT TAVR - Edit Contour



CT TAVR

Summary:

CT Transcatheter Aortic Valve Replacement (TAVR) planning assists with the assessment of the aortic valve and in pre-operational planning and post-operative evaluation of transcatheter aortic valve replacement procedures.

Some key features of the application include:

- ▶ Comprehensive template of measurements, including diameter, area, angle, and circumference.
- ▶ Automated segmentation and centerlines of ascending aorta and access vessels for assessment and delivery approach.
- ▶ Display of C-Arm angle for device placement.
- ▶ Flexibility to enable planning for the transfemoral, subclavian and transapical delivery approaches.
- ▶ Create new, add or modify stent planning templates with the Custom Device Template Editor.
- ▶ Ability to load up to 21 different series into the application.
- ▶ Optimized 3D viewing for cardiac valves and calcium.
- ▶ Save snapshots, batches and report.

Made For life

For over 100 years, the Canon Medical Systems 'Made for Life' philosophy prevails as our ongoing commitment to humanity - generations of inherited passion creates a legacy of medical innovation and service that continues to evolve as we do. By engaging the brilliant minds of many, we continue to set the benchmark, because we believe quality of life should be a given, not the exception.

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