Medtronic

Evolut™ TAVR platform

Patient	RIGGS, KEVIN	**Height**	**m**	**Physician**	Dr. HANSEN, PETER	**Received Date**	29-Jun-2025
Sex	Male	**Weight**	**kg**	**Hospital**	Royal North Shore Hospital	**Reviewed Date**	30-Jun-2025
Year Of Birth (Age)	1945 (79)	**BMI**	----	**City**	Sydney		
		EOA needed to achieve an iEOA > 0.85 cm²/m²		**Country**	Australia		

Clinical History

Case: 31570835

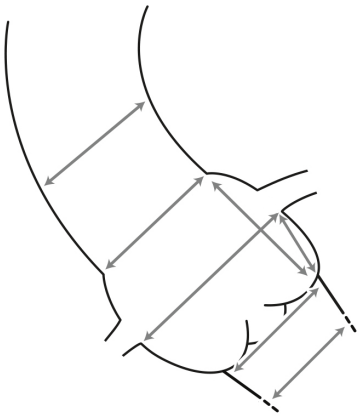
MEDTRONIC ANALYSIS

ANNULUS

Diameter (mm)	22.5	x	23.6	,	23.0
	Min		Max		Mean
Perimeter (mm)	72.4	, Derived Ø (mm)			23.0
Area (mm²)	415.6	, Derived Ø (mm)			23.0

LVOT

Diameter (mm)	22.6	x	28.1	,	25.3
	Min		Max		Mean
Perimeter (mm)	80.6	, Derived Ø (mm)			25.7
Area (mm²)	492.5	, Derived Ø (mm)			25.0

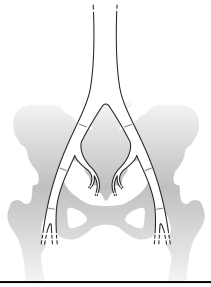


Max Ascending Aorta Diameter (mm)	31.8		
Sinotubular Junction Diameter (mm)	28.1 (Min) x	28.7 (Max)	
Sinus of Valsalva Diameter (mm)	36.1 (LCC)	30.3 (RCC)	31.2 (NCC)
Sinus of Valsalva Height (mm)	20.1 (LCC)	19.1 (RCC)	23.4 (NCC)
Coronary Ostia Height (mm)	7.0 (Left)	12.0 (Right)	

VIEWS

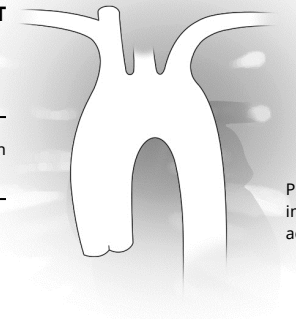
Cusp Overlap View	RAO: 8°, Caudal: 15°
3 Cusp Coplanar View	
Near Cusp Overlap View	

RIGHT		**LEFT**	
CIA Min Diameter (mm)	7.2 x 7.9	CIA Min Diameter (mm)	7.6 x 7.8
EIA Min Diameter (mm)	3.7 x 6.4	EIA Min Diameter (mm)	6.8 x 8.0
Femoral Min Diameter (mm)	6.5 x 6.7	Femoral Min Diameter (mm)	5.9 x 7.2



Calcium: Mild ☐ Moderate ☐ Severe ☐

RIGHT		**LEFT**	
Subclavian Min Diameter (mm)	---- x ----	Subclavian Min Diameter (mm)	---- x ----
Annular Angulation	44°		



Please review images for direct aortic evaluation.

VIV ADDITIONAL MEASUREMENTS

Valve to Coronary Distance (mm)	5.5 (To LCA)	6.3 (To RCA)
Valve to STJ Distance (mm)	0.6 (LCC)	2.4 (RCC)

Procedural Considerations

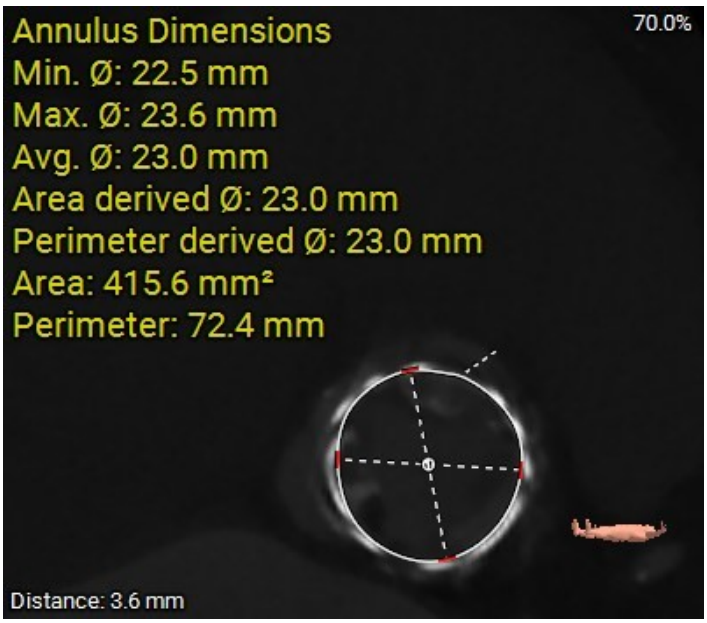
Site reports patient has a 25 mm Perimount surgical aortic valve (SAV) - Patient appears to have a 25 mm Magna Ease 3300 surgical aortic valve (SAV) - Recommend obtaining Op report for specific SAV information

Heavy MAC
Ca++ seen in LVOT under RCC, LCC and NCC
Ca++ seen in proximal RCA and LCA

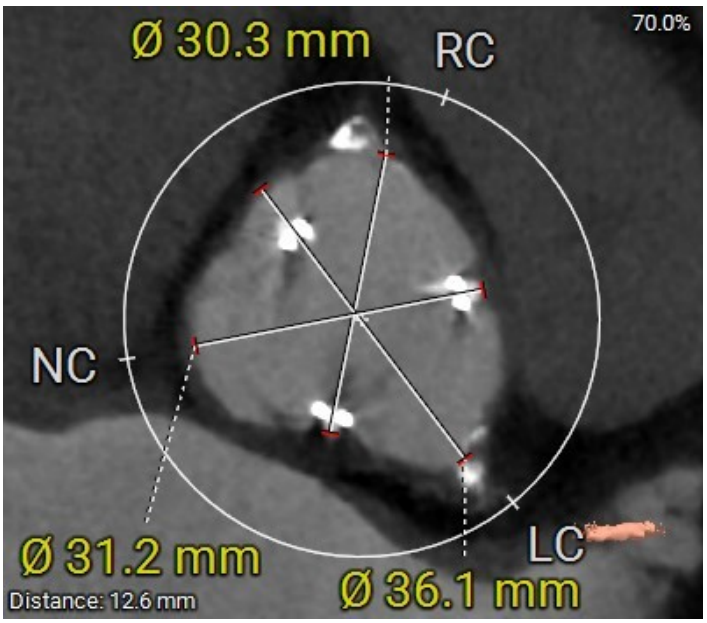
Possible short segment dissection seen in REI with regions of narrowing **< 5 mm**

Aorta

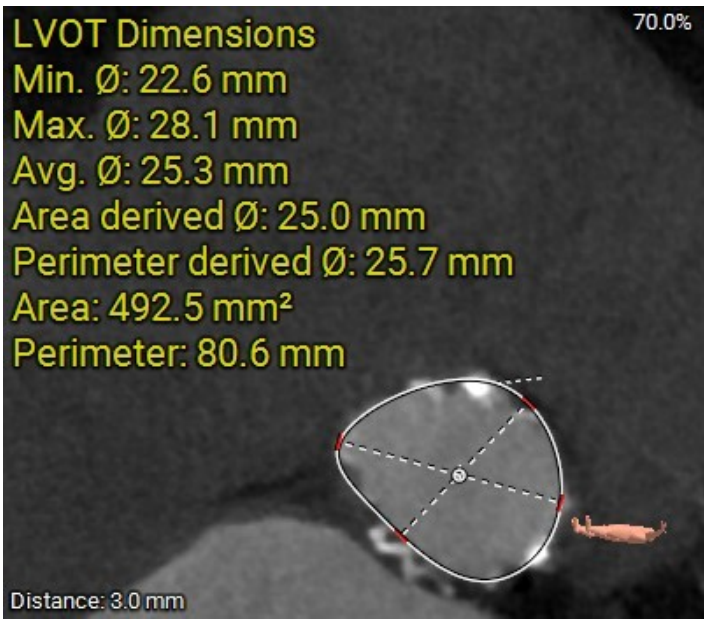
ANNULUS



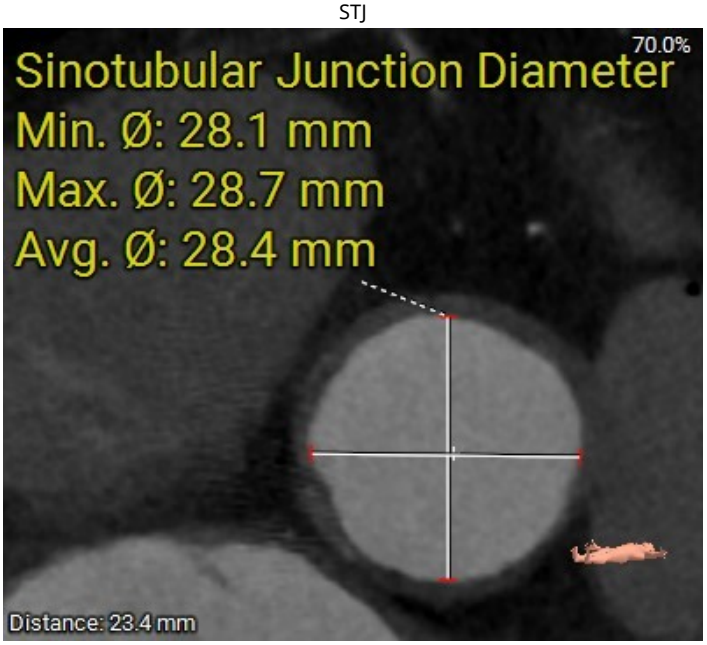
SOV DIAMETER



LVOT



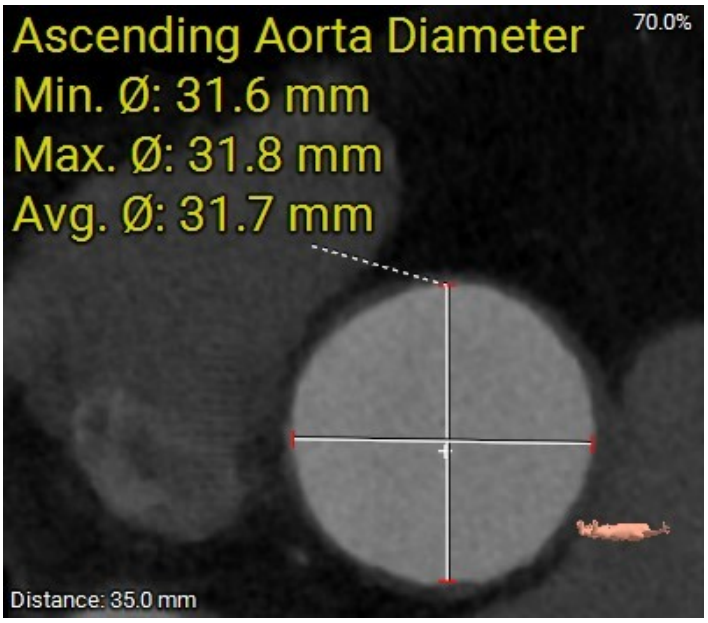
STJ



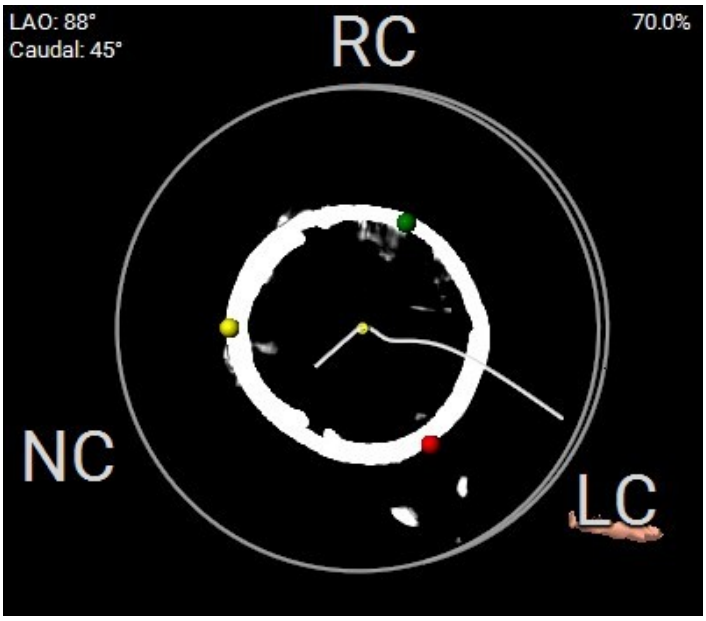
Ca++ seen in LVOT under RCC, LCC and NCC

Aorta

ASCENDING AORTA

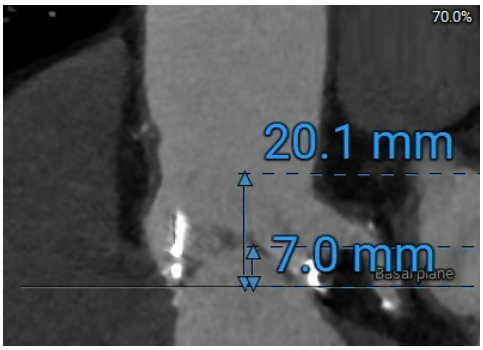


AORTIC VALVE CALCIFICATION

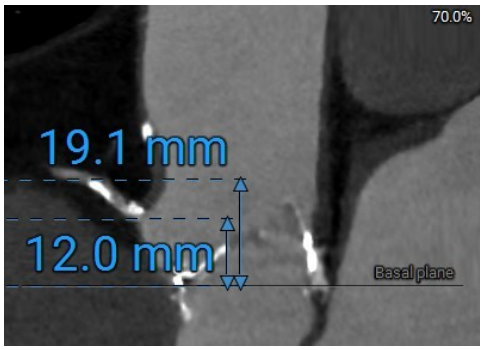


SINUS HEIGHT

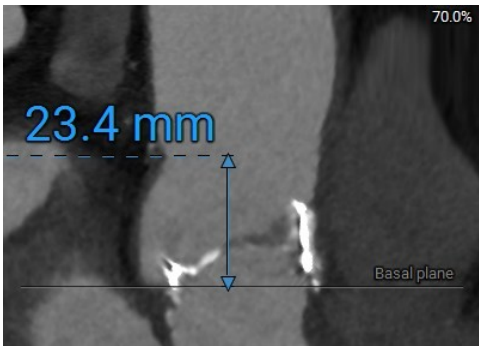
LCC



RCC



NCC

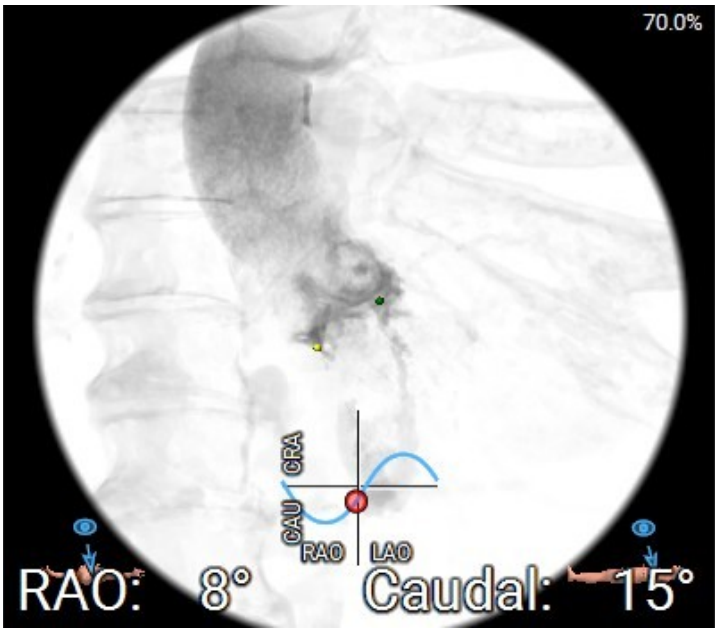


Ca++ seen in proximal LCA

Ca++ seen in proximal RCA

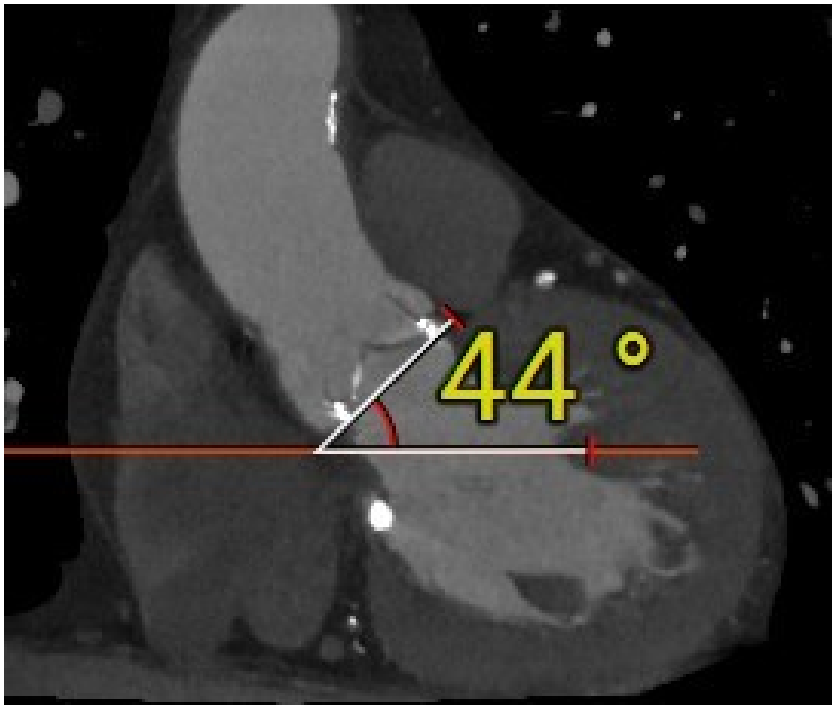
AORTIC ROOT

IMPLANTER'S VIEW

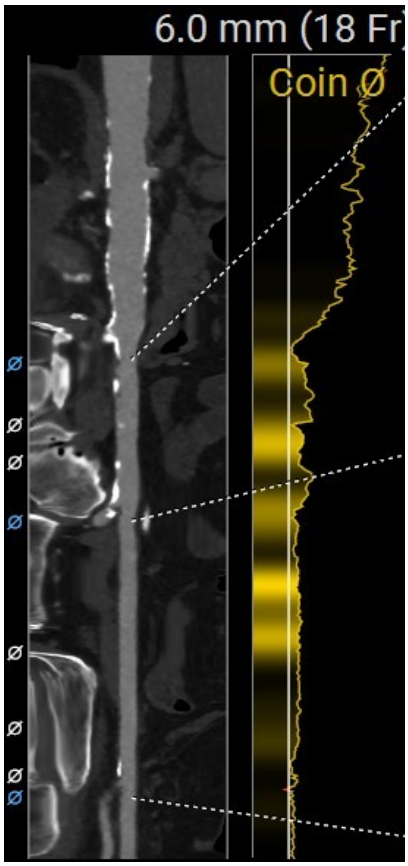


Cusp Overlap View

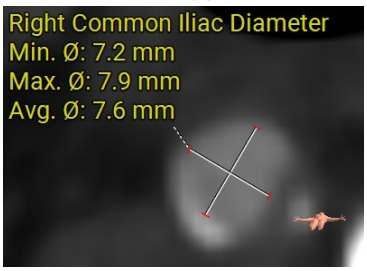
Annular Angulation



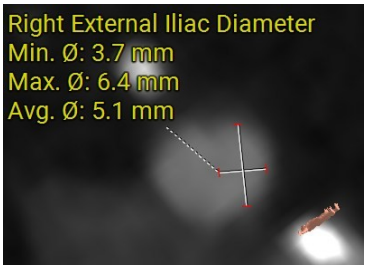
Femoral Access - Right



CIA (R)

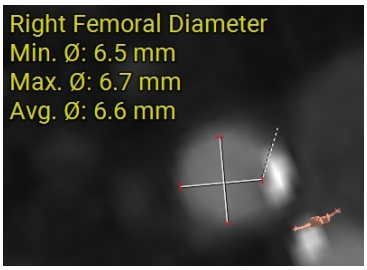


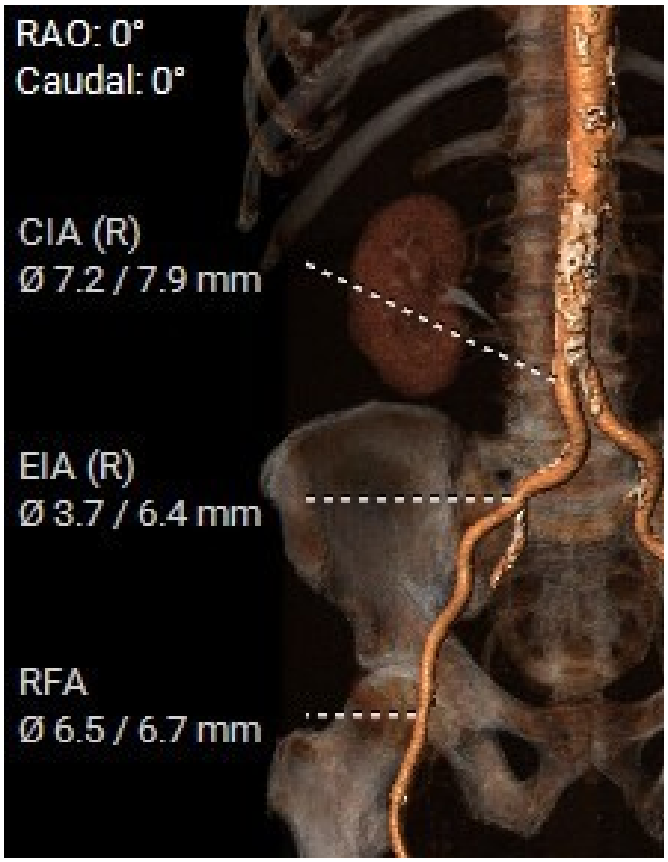
EIA (R)



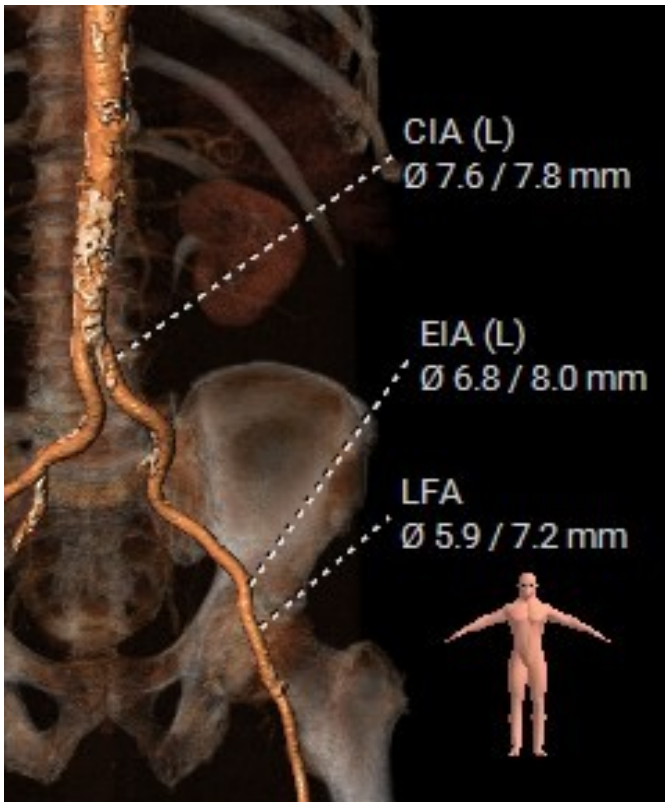
Possible short segment dissection seen in REI

RFA

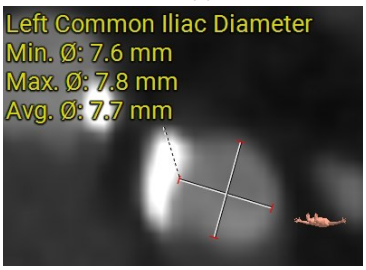




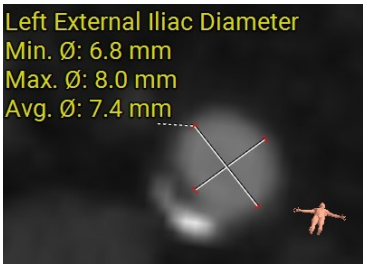
Femoral Access - Left



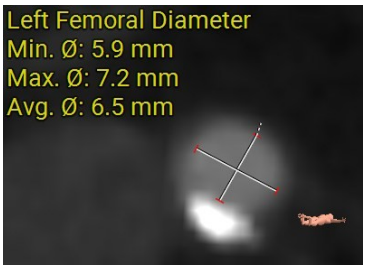
CIA (L)

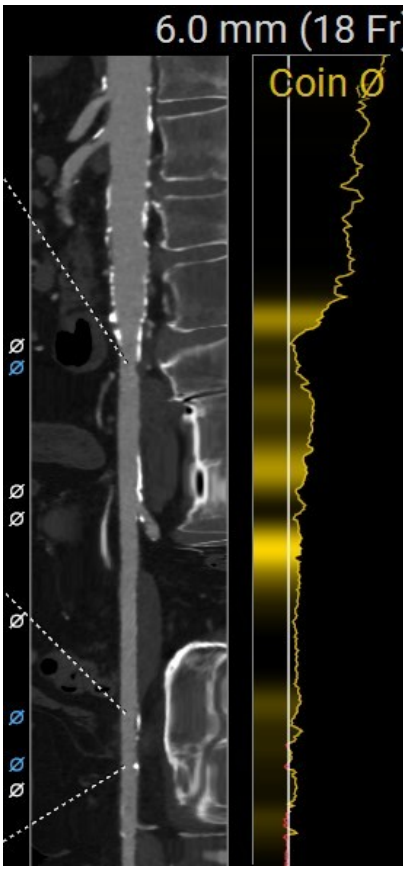


EIA (L)

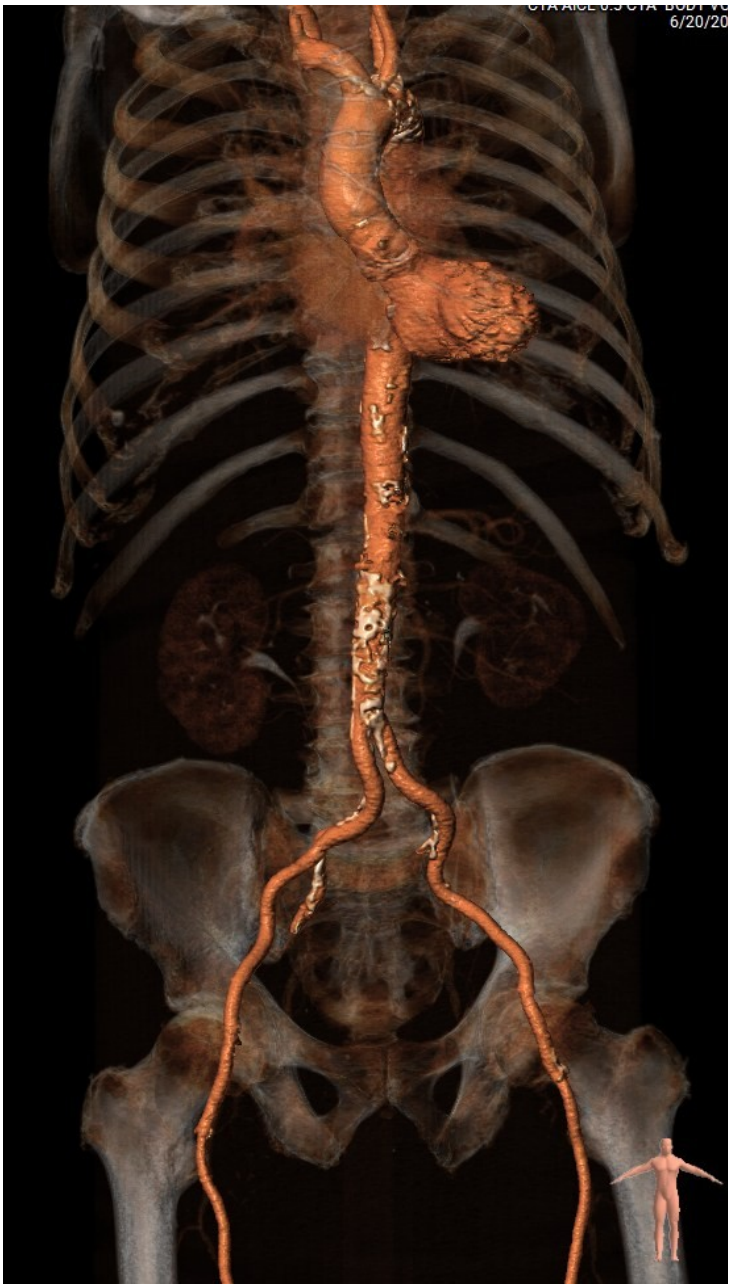


LFA

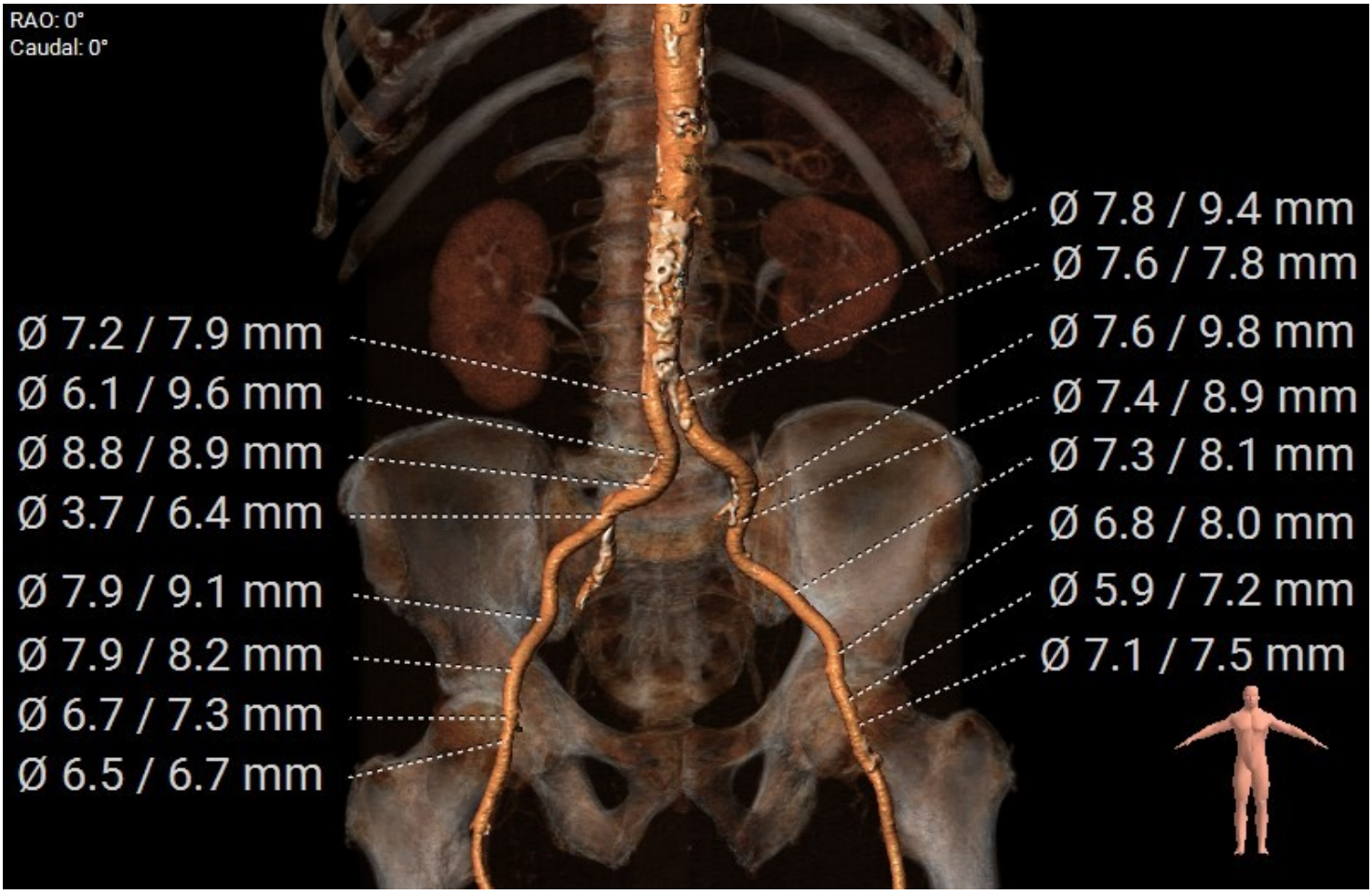




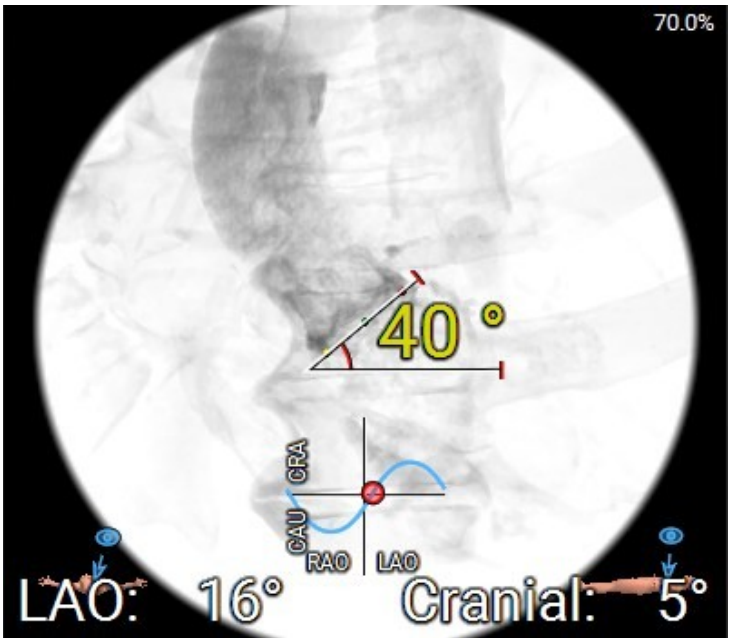
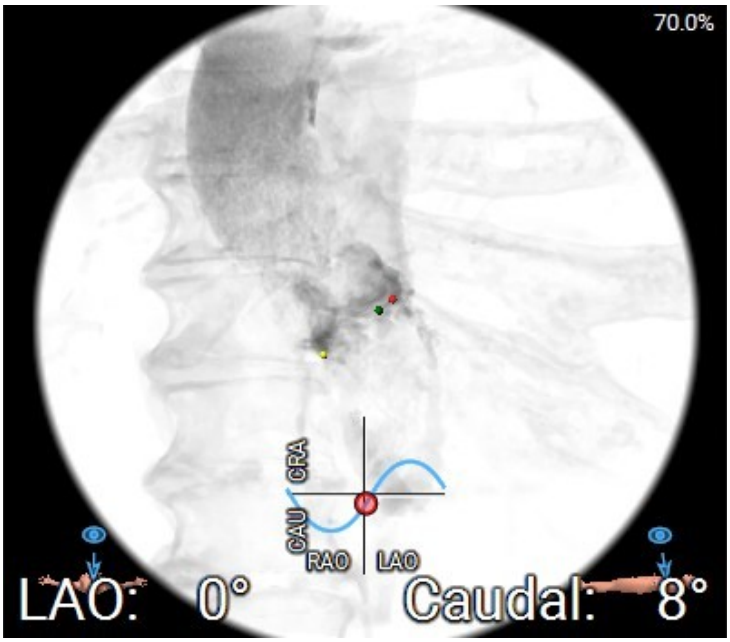
Additional Femoral Images

Title	Title
	

Dimmed background



Additional Images

3 cusp coplanar	Near-cusp overlap
	

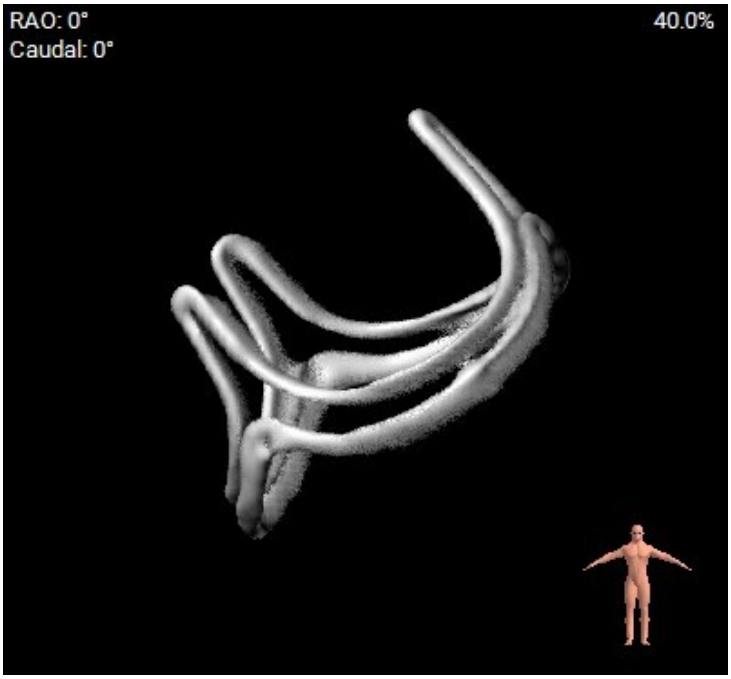
Title

Magna Ease™* 3300 Valve[10]

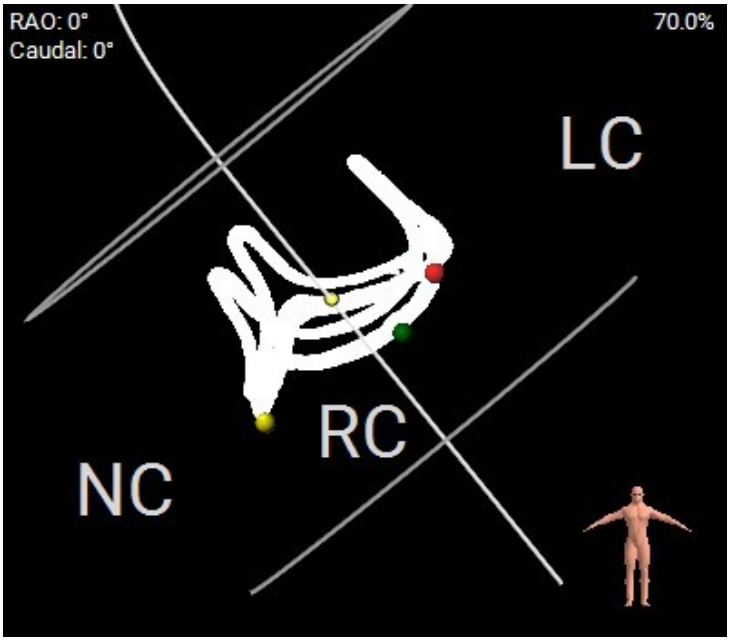
Surgical Valve Size	19 mm	21 mm	23 mm	25 mm	27 mm	29 mm	31 mm
Inner Diameter[1]	18	20	22	24	26	28	-
Height	13	14	15	16	17	18	-

Site reports patient has a 25 mm Perimount surgical aortic valve (SAV) - Patient appears to have a 25 mm Magna Ease 3300 surgical aortic valve (SAV) - Recommend obtaining Op report for specific SAV information

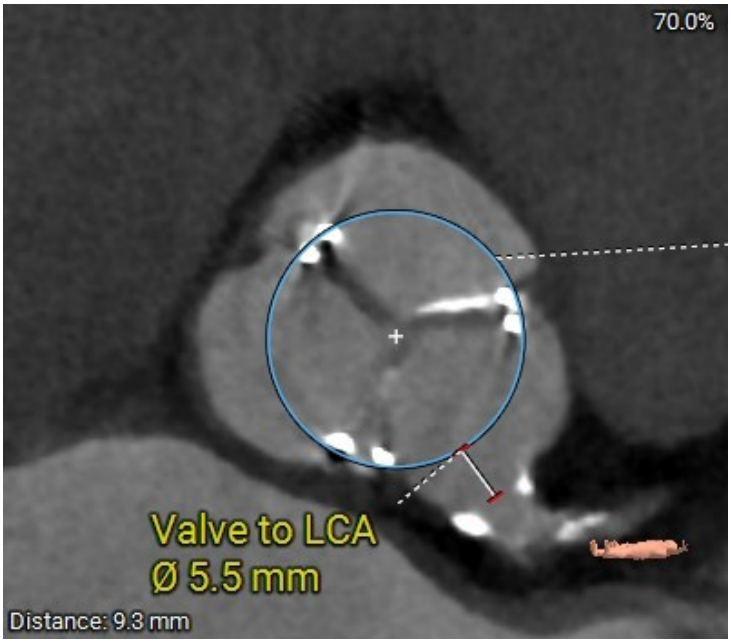
Volume Rendering



Hockey Puck (MIP)

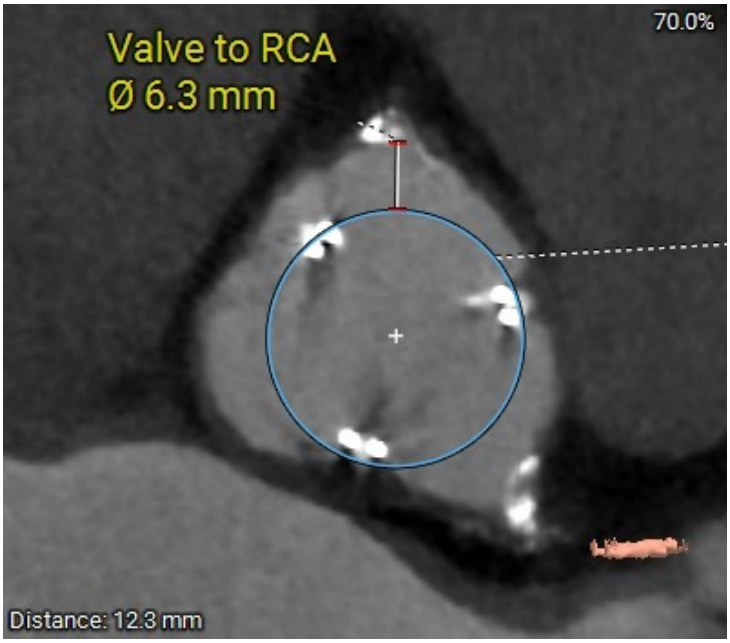


Perpendicular Plane



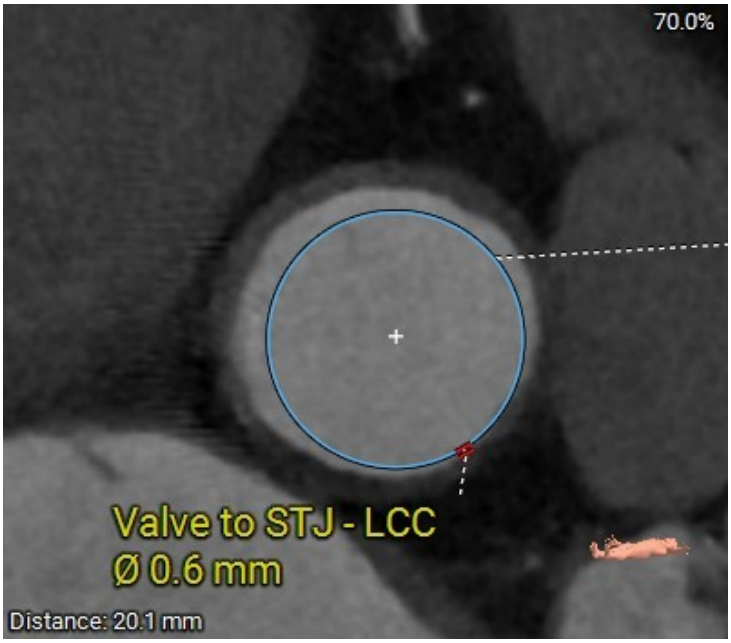
LCA - VTA
25 mm Magna Ease = 24 mm manufacturer's inner diameter

Perpendicular Plane



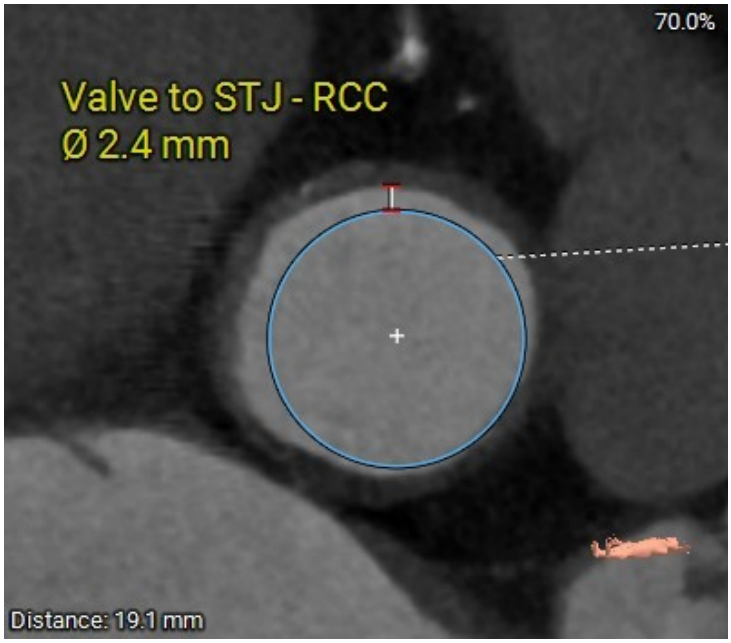
RCA - VTC
25 mm Magna Ease = 24 mm manufacturer's inner diameter

Perpendicular Plane



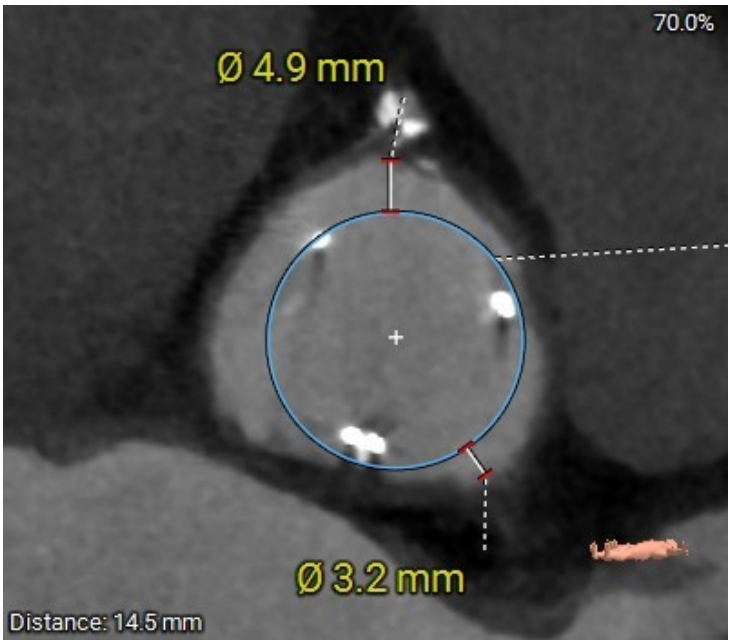
LCC – VTSTJ
25 mm Magna Ease = 24 mm manufacturer's inner diameter

Perpendicular Plane



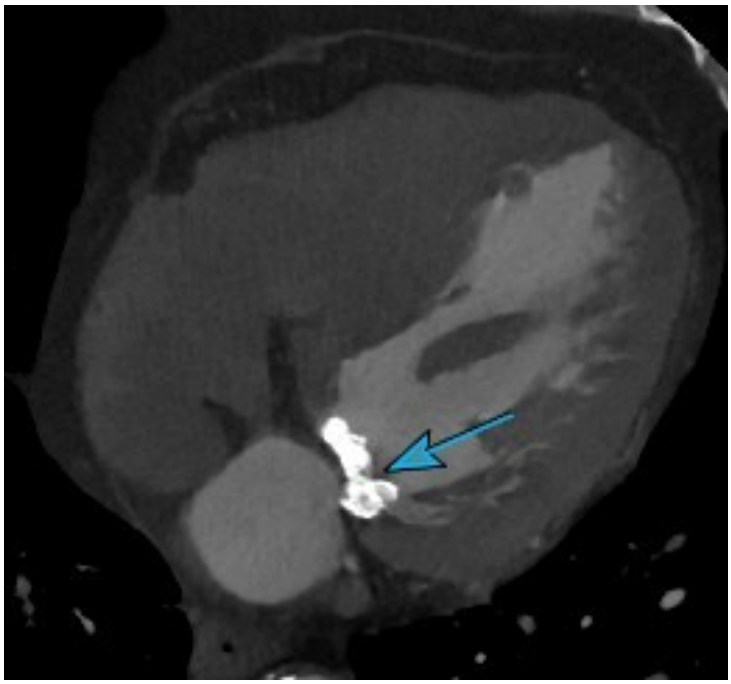
RCC – VTSTJ
25 mm Magna Ease = 24 mm manufacturer's inner diameter

Perpendicular Plane



LCC/RCC - VTA at top of SAV stent posts (3 posts seen)
25 mm Magna Ease = 24 mm manufacturer's inner diameter

Axial (MPR)



Heavy MAC

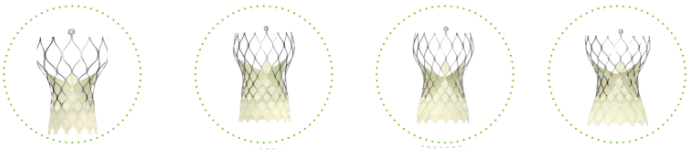
Title

Medtronic

Evolut™ FX TAVI System

Patient valve selection criteria

Evolut FX bioprosthesis valve size selection



Size		23 mm	26 mm	29 mm	34 mm
Annulus diameter (A)	23.0 mm	18–20 mm	20–23 mm	23–26 mm	26–30 mm
Annulus perimeter‡	72.4 mm	56.5–62.8 mm	62.8–72.3 mm	72.3–81.7 mm	81.7–94.2 mm
Sinus of Valsalva diameter (mean) (B)	32.5 mm	≥ 25 mm	≥ 27 mm	≥ 29 mm	≥ 31 mm
Sinus of Valsalva height (mean) (C)	20.9 mm	≥ 15 mm	≥ 15 mm	≥ 15 mm	≥ 16 mm
Oversizing Percentage		**0%**	**13%**	**26%**	**48%**

‡Annulus perimeter = annulus diameter x π.

Selection criteria

Access consideration by MSCT	IFU guidance by MSCT
Minimum transarterial access vessel diameter	Evolut FX 23/26/29 mm TAVs ≥ 5.0 mm Evolut FX 34 mm TAV ≥ 6.0 mm
Aortic root angulation, femoral access	Not recommended if > 70 degrees.
Aortic root angulation, left subclavian	Not recommended if > 70 degrees.§
Aortic root angulation, right subclavian	Not recommended if > 30 degrees.§
Vascular access location, direct aortic access	Ascending aorta access site ≥ 60 mm from basal plane.Ω

§Patients with a patent LIMA or RIMA graft must present with access vessel diameters that are either ≥ 5.5 mm when using model D-EVOLUTFX-2329 or ≥ 6.5 mm when using model D-EVOLUTFX-34.
ΩFor direct aortic access, ensure access site and trajectory are free of patent RIMA or preexisting patent RIMA graft.

Note the position of any SVGs

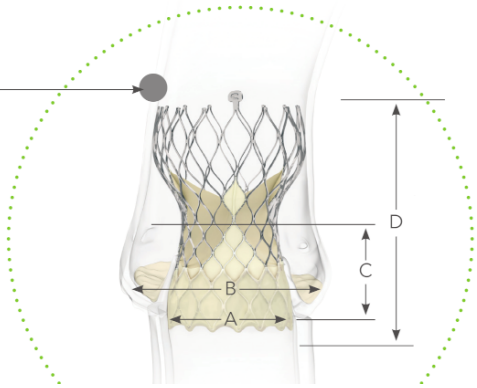
(A) Annulus diameter

(B) Sinus of Valsalva diameter

(C) Sinus of Valsalva height

(D) Frame height (≈ 45 mm, not including paddles)

Illustration not to scale.



CAUTION: For distribution only in markets where CoreValve™ Evolut™ R, CoreValve™ Evolut™ PRO, Evolut™ PRO+, Evolut™ FX Systems and Evolut™ FX+ Systems are approved. See the CoreValve™ Evolut™ R, the CoreValve™ Evolut™ PRO, the Evolut™ PRO+, the Evolut™ FX and the Evolut™ FX+ device manuals for detailed information regarding the instructions for use, the implant procedure, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative and/or consult the Medtronic website at medtronic.eu. For applicable products, consult instructions for use on manuals.medtronic.com. Manuals can be viewed using a current version of any major internet browser. For best results, use Adobe Acrobat® Reader with the browser. The commercial name of the Evolut™ R device is Medtronic CoreValve™ Evolut™ R System, the commercial name of the Evolut™ PRO device is Medtronic CoreValve™ Evolut™ PRO System, the commercial name of the Evolut™ PRO+ device is Medtronic CoreValve™ Evolut™ PRO+ System, the commercial name of the Evolut™ FX device is Medtronic Evolut™ FX System and the commercial name of the Evolut™ FX+ device is Medtronic Evolut™ FX+ System.

CAUTION: This report is provided based on information and images provided by the physician to Medtronic. This report is intended to be a resource to support physicians in their determination of proper case selection, device sizing and procedure planning, and is in no way intended to constitute medical advice or in any way replace the independent medical judgment of a trained and licensed physician with respect to any patient needs or circumstances. Physicians must conduct their own measurements and make their own medical judgments based on all of their patient's clinical and diagnostic records and images. Physician is solely responsible for all decisions and any medical judgments relating to patient diagnosis and treatment, including case selection and sizing of the device. Please see the complete Instructions of Use for all product indications, contraindications, precautions, warnings, and adverse events.

See the CoreValve™ Evolut™ R, the CoreValve™ Evolut™ PRO, the Evolut™ PRO+ device and the Evolut™ FX device manuals for detailed information regarding the instructions for use, the implant procedure, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative and/or consult the Medtronic website at medtronic.eu.

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The commercial name of the Evolut™ R device is Medtronic CoreValve™ Evolut™ R System, the commercial name of the Evolut™ PRO device is Medtronic CoreValve™ Evolut™ PRO System, the commercial name of the Evolut™ PRO+ device is Medtronic Evolut™ PRO+ System, and the commercial name of the Evolut™ FX device is Medtronic Evolut™ FX System.

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Notes:

Conclusion:

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