

14<sup>th</sup>

AICT

ASIAN INTERVENTIONAL CARDIOVASCULAR THERAPEUTICS  
THE OFFICIAL CONGRESS OF APSIC

# Difficult decision making in a patient with aortic stenosis – how should I treat?

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I have the following potential conflicts of interest to report:

I am a physician proctor for CoreValve/Evolut (Medtronic) TAVI device

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# Background

- 88yr old lady, good premorbid, walks with stick

## Past medical history:

- Osteoarthritis of both knee, gout

## History of present illness:

- Congestive heart failure with recurrent admission
- NYHA class III
- No angina, no syncope

## Echocardiogram:

- Heavily calcified AV, severe AS (AV peak/mean gradient 103/60mmHg, AVA 0.52cm<sup>2</sup>), trivial AR;
- Calcified mitral annulus, calcified & thickened MV, no MS (mean PG 3mmHg), moderate MR;
- Mild TR, RVSP 46 mmHg;
- LVH with preserved LV systolic fx, EF 50-55%; Normal RV systolic fx & size



# Background

- Coro on 6/6/18: distal LAD minor plaque, mid RCA 20%, normal LM and LCx

- STS score for SAVR:

- 5.3% PROM
- 20.9% M&M

## Heart Team meeting:

- Suggest TAVI instead of SAVR in view of old age (ie 88 yr old).
- Plan to have TAVI by using Medtronic Evolut-PRO system

### ANNULUS

#### Annulus Dimensions

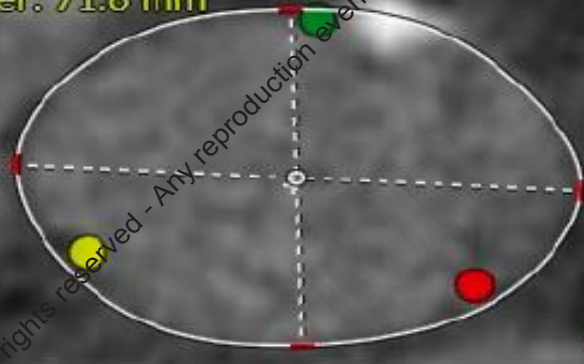
Min. Ø: 18.2 mm

Max. Ø: 27.2 mm

Avg. Ø: 22.7 mm

Perimeter derived Ø: 22.8 mm

Perimeter: 71.8 mm

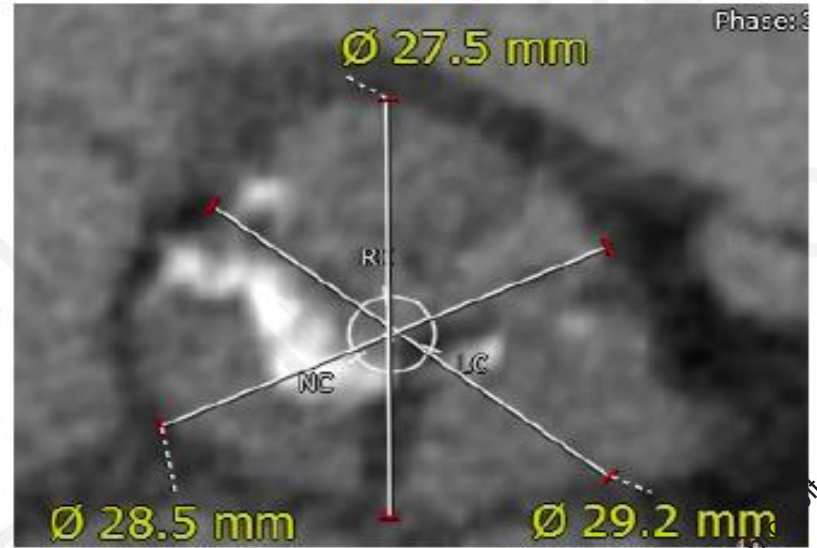


### SOV DIAMETER

Ø 27.5 mm

Ø 28.5 mm

Ø 29.2 mm



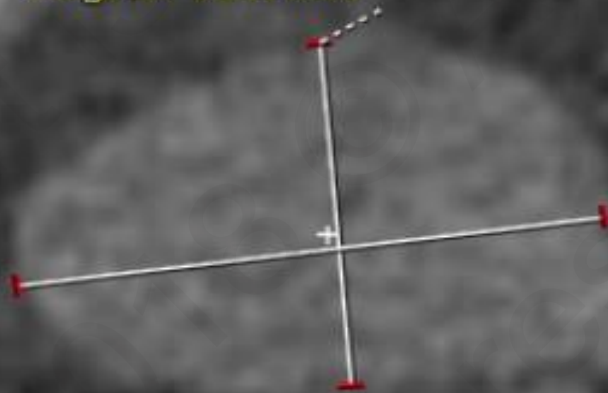
### LVOT

#### LVOT Diameter

Min. Ø: 16.5 mm

Max. Ø: 25.4 mm

Avg. Ø: 21.0 mm



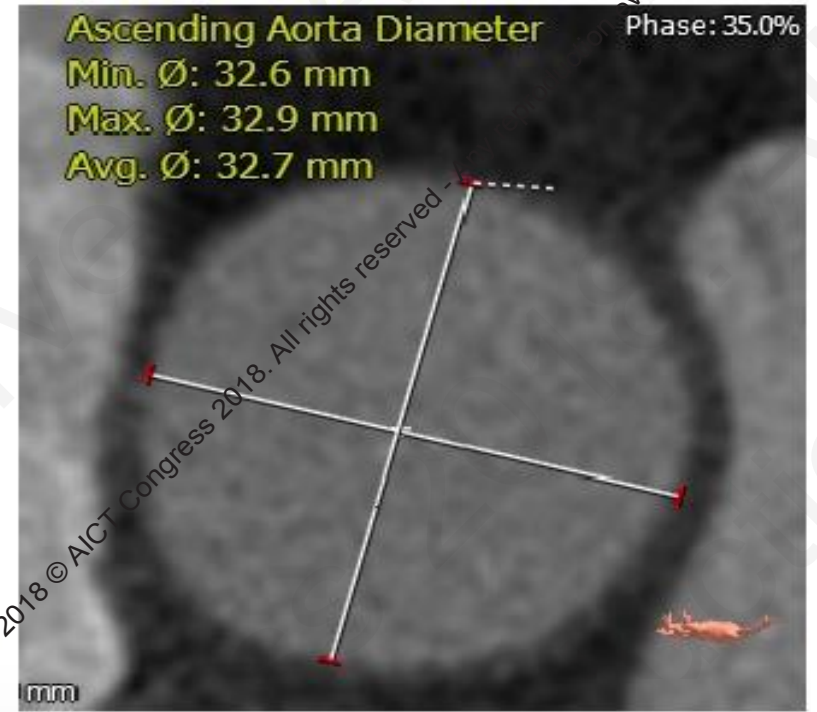
### ASCENDING AORTA

#### Ascending Aorta Diameter

Min. Ø: 32.6 mm

Max. Ø: 32.9 mm

Avg. Ø: 32.7 mm

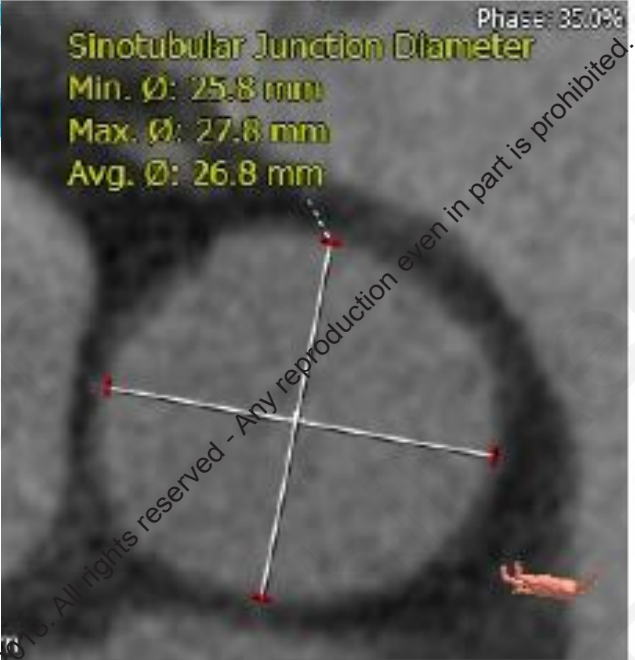


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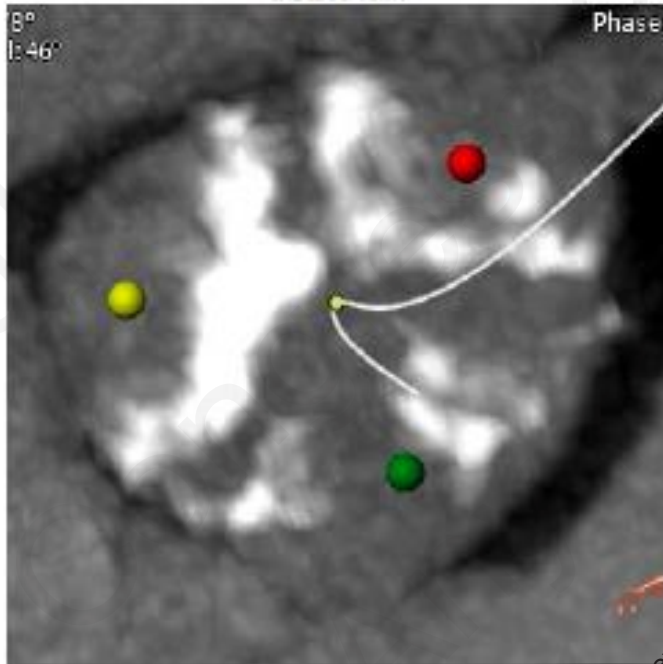
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STJ



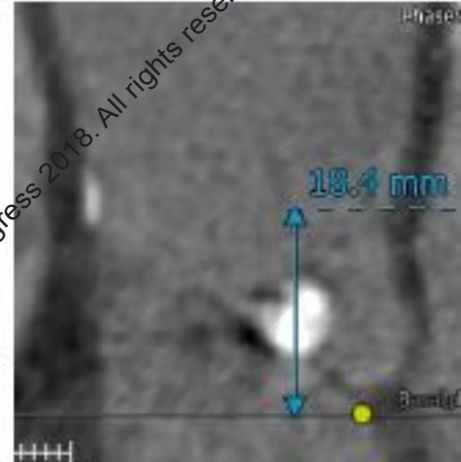
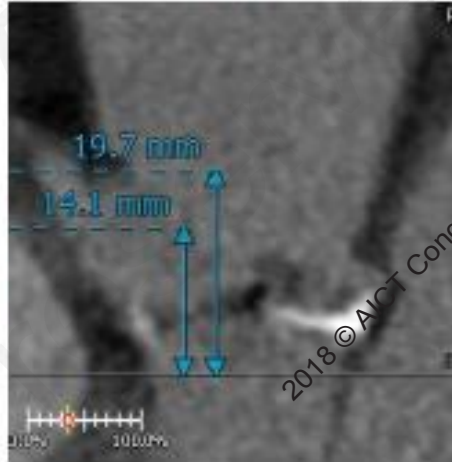
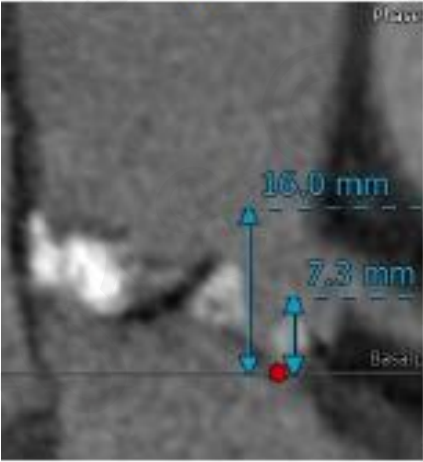
AORTIC VALVE  
CALCIFICATION



**SINUS HEIGHT**

LCC

RCC



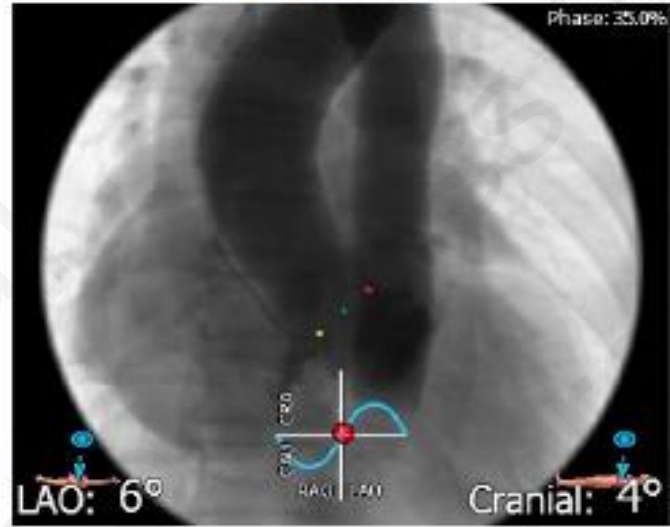
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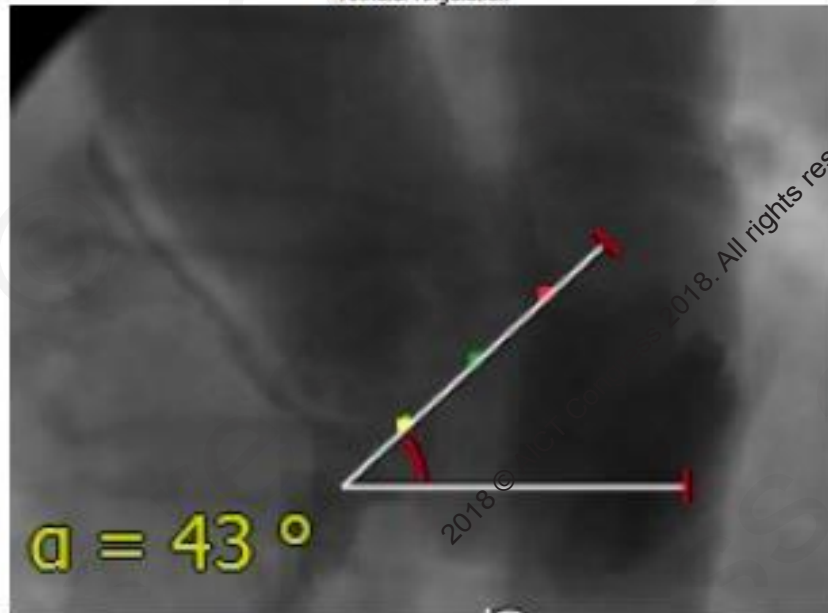
AORTIC ROOT



IMPLANTER'S VIEW



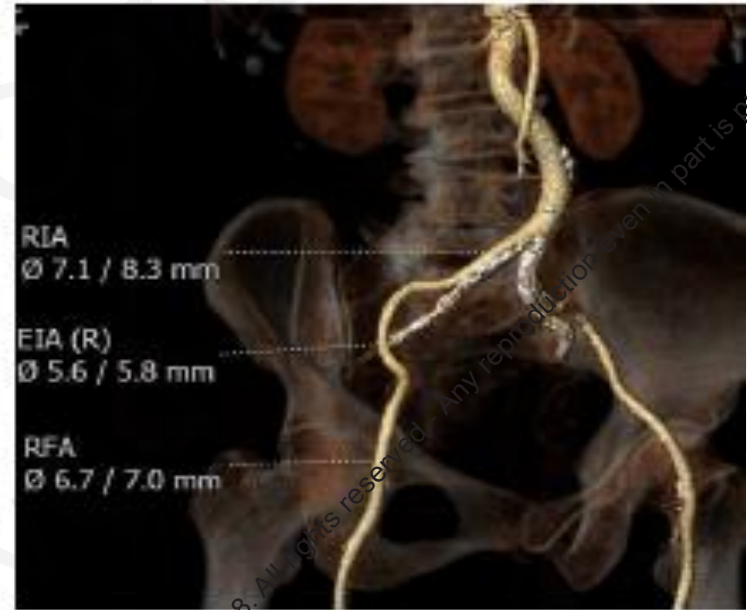
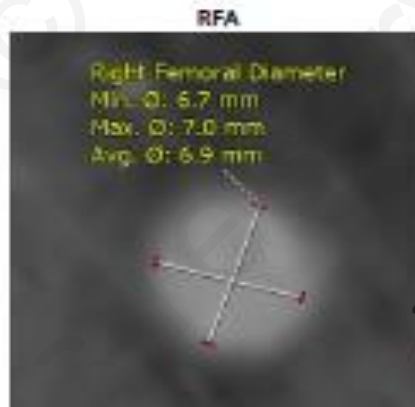
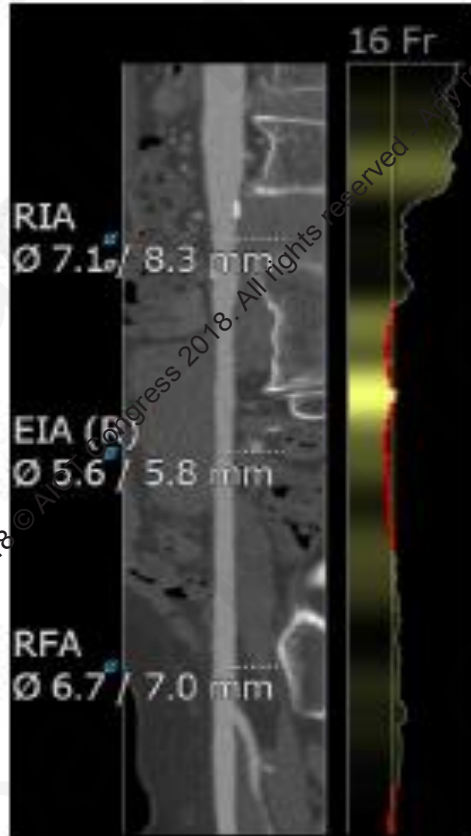
Annular Angulation



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# Femoral Access - Right

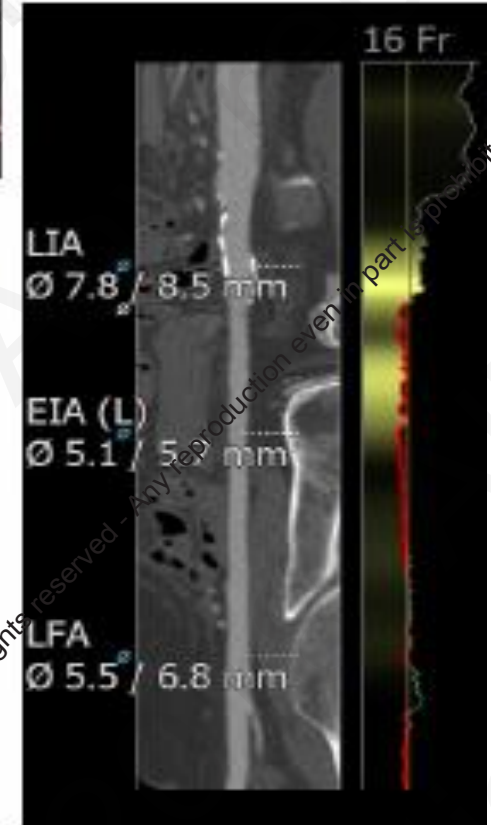
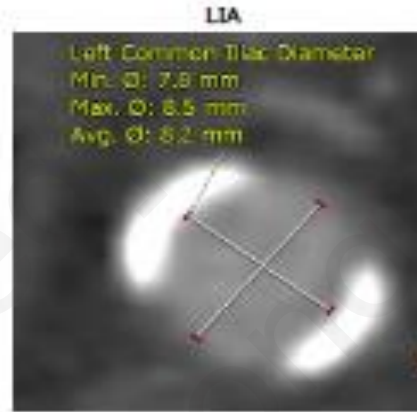


2018

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# Femoral Access - Left



How should I treat?

Any precaution during the TAVI procedure by Evolut PRO ?



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