HORIZONTAL AORTA & KINKING

TAVI

CASE WITH ALLEGRA

DR. RAMIRO TRILLO

Policlínica Gipuzkoa

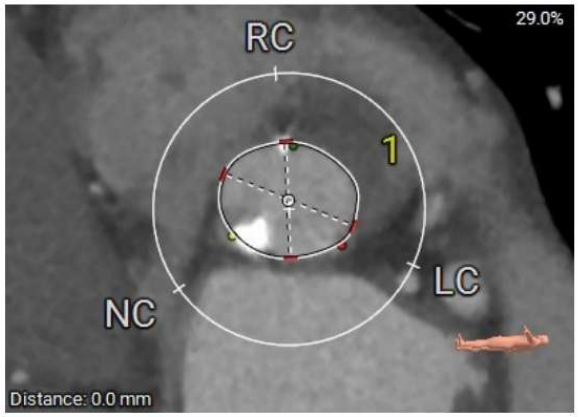
PATIENT

- **Gender**: Female
- **Age**: 76
- **Diagnosis**: **severe aortic stenosis**

ANNULUS AND LVOT

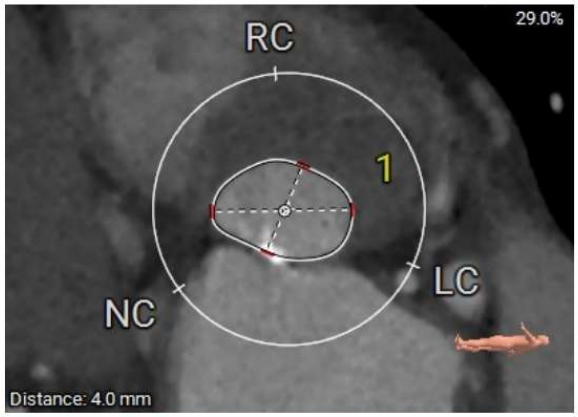
- Annulus (pd): 23.7 mm
- Max/min annulus diameter: 25.7/21.4 mm
- Annulus area: 434.3 mm
- Annulus perimeter: 74.5 mm
- LVOT (pd): 22.1 mm

Annulus



ID	Type	Label	Value
1	Polygon	Annulus Dimensions - Min. Ø	21.4 mm
		Annulus Dimensions - Max. Ø	25.7 mm
		Annulus Dimensions - Avg. Ø	23.5 mm
		Annulus Dimensions - Area derived Ø	23.5 mm
		Annulus Dimensions - Perimeter derived Ø	23.7 mm
		Annulus Dimensions - Area	434.3 mm²
		Annulus Dimensions - Perimeter	74.5 mm

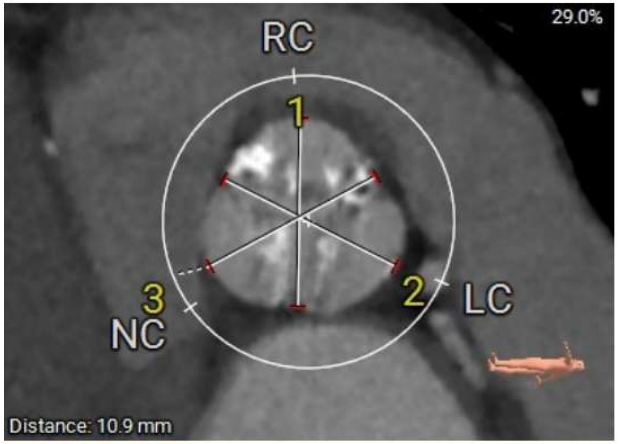
LVOT



ID	Type	Label	Value
1	Polygon	LVOT Diameter - Min. Ø	17.4 mm
		LVOT Diameter - Max. Ø	25.8 mm
		LVOT Diameter - Avg. Ø	21.6 mm
		Area derived Ø	21.3 mm
		Perimeter derived Ø	22.1 mm
		Area	357.4 mm²
		Perimeter	69.5 mm

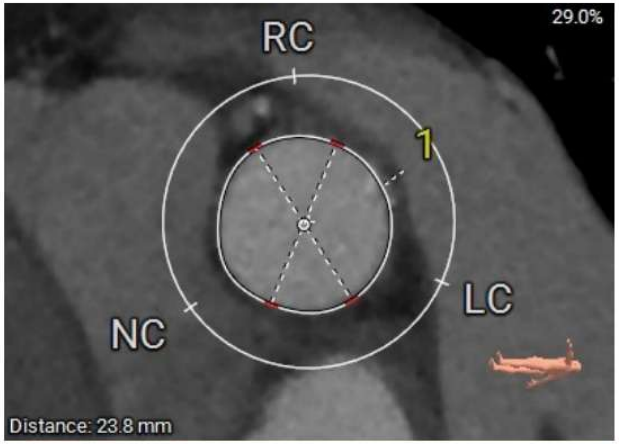
SOV Diameter and sinotubular junction

SOV Diameter



ID	Type	Label	Value
1	Diameter	Sinus of Valsalva Right	32.1 mm
2	Diameter	Sinus of Valsalva Left	32.9 mm
3	Diameter	Sinus of Valsalva Non	32.3 mm

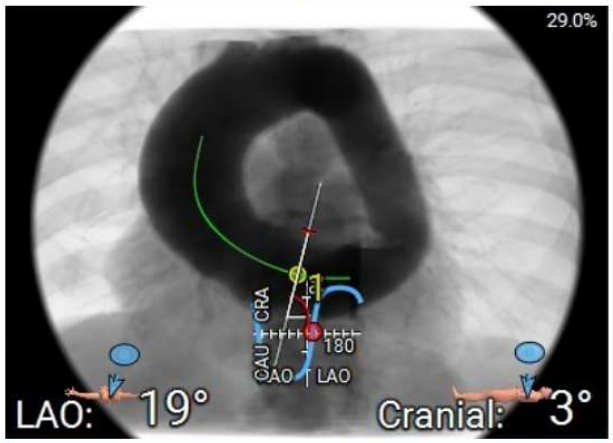
Sinotubular Junction



ID	Type	Label	Value
1	Polygon	Sinotubular Junction Diameter - Min. Ø	29.6 mm
		Sinotubular Junction Diameter - Max. Ø	30.8 mm
		Sinotubular Junction Diameter - Avg. Ø	30.2 mm
		Area derived Ø	30.1 mm
		Perimeter derived Ø	30.2 mm
		Area	713.6 mm²
		Perimeter	94.8 mm

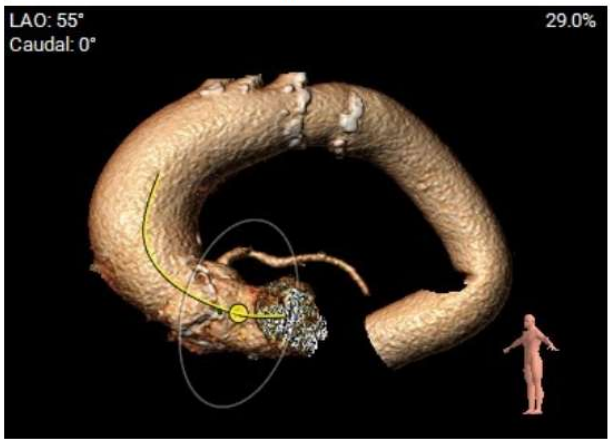
Angulation

Angio

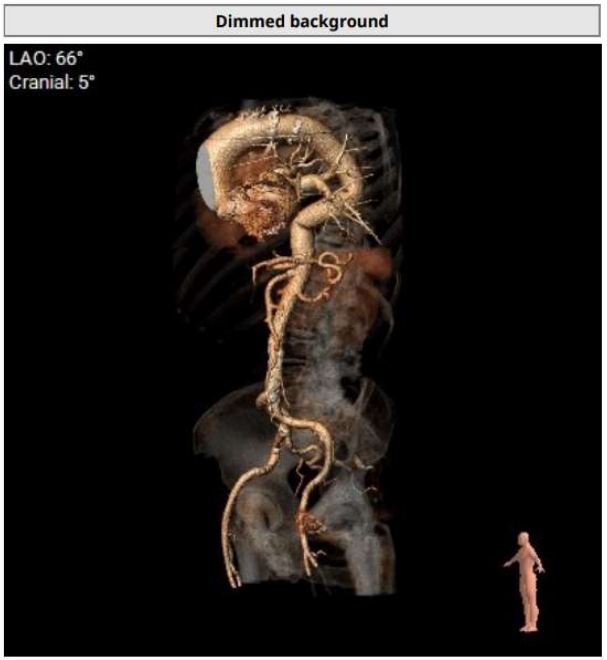


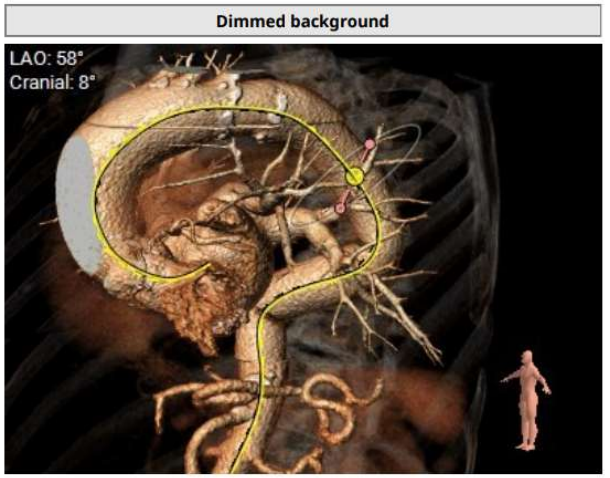
ID	Type	Label	Value
1	Horizontal Aorta Angle	Angle	76 °

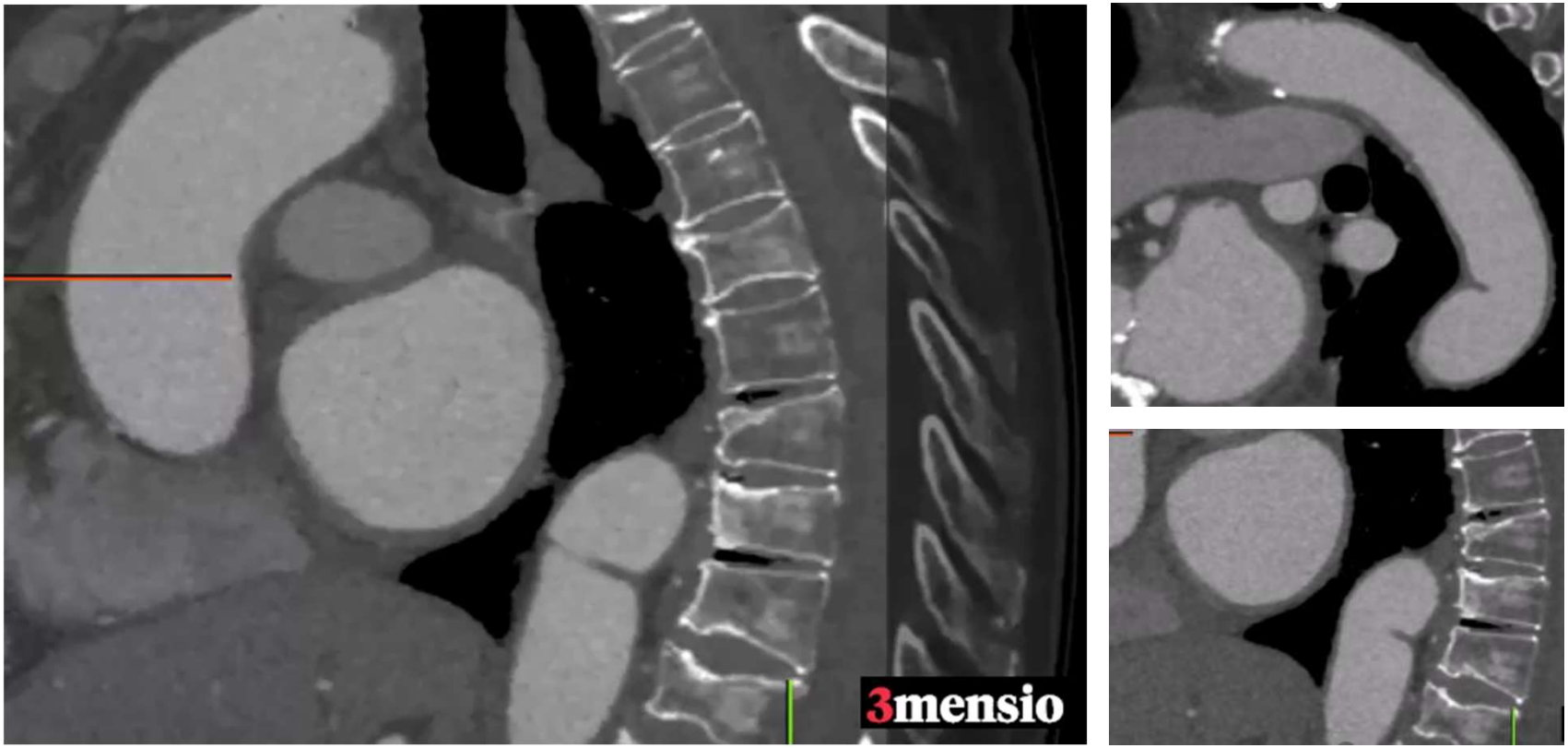
Segmentation only



Tortuosity

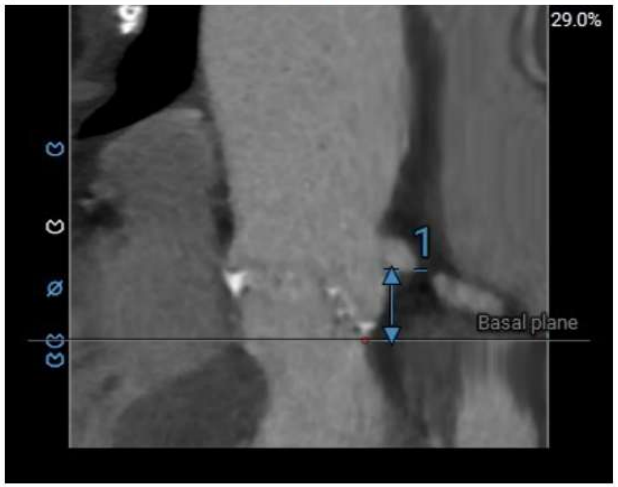

Dimmed background
LAO: 66°
Cranial: 5°


Dimmed background
LAO: 58°
Cranial: 8°


3mensio

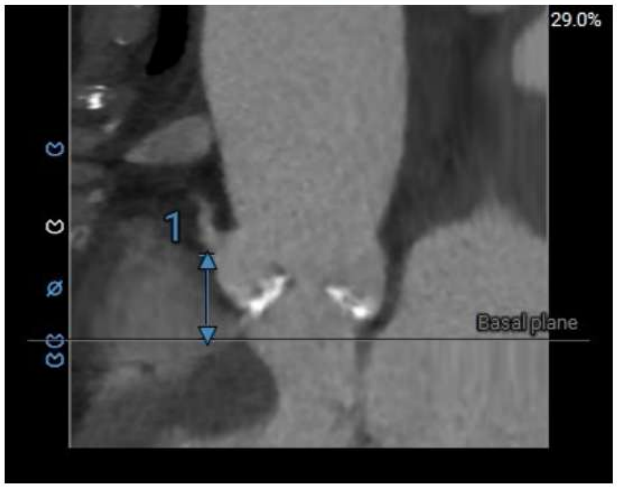
LCA & RCA Height

LCA Height



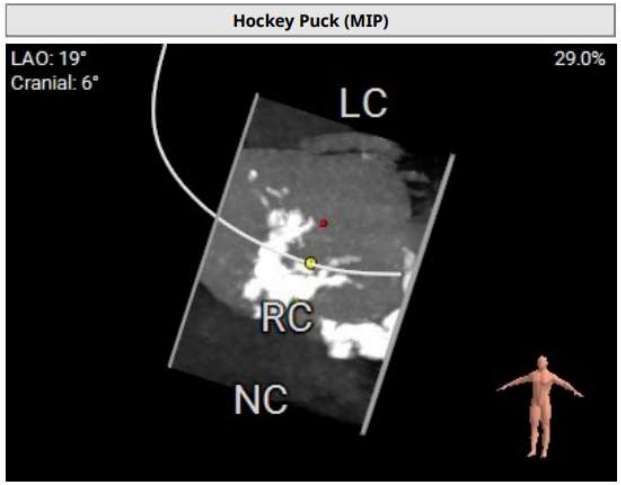
ID	Type	Label	Value
1	Vessel Length	Left Coronary Height	14.6 mm

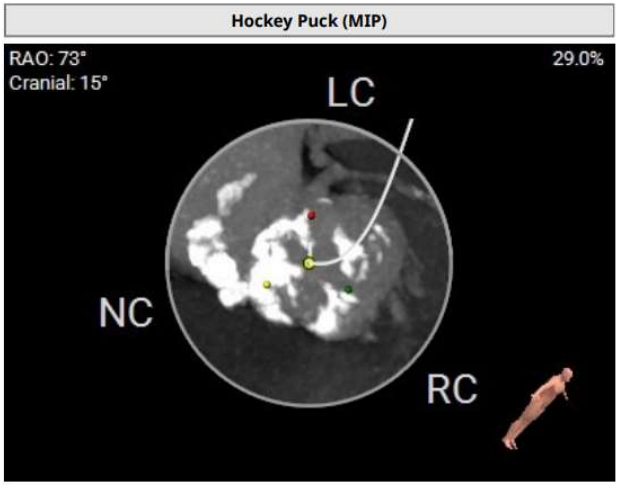
RCA Height



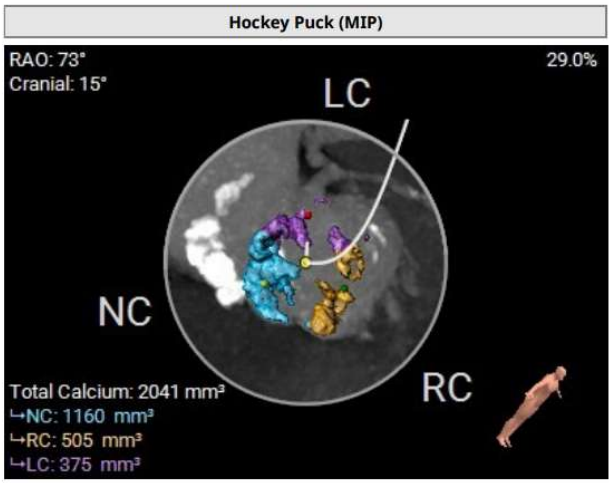
ID	Type	Label	Value
1	Vessel Length	Right Coronary Height	17.9 mm

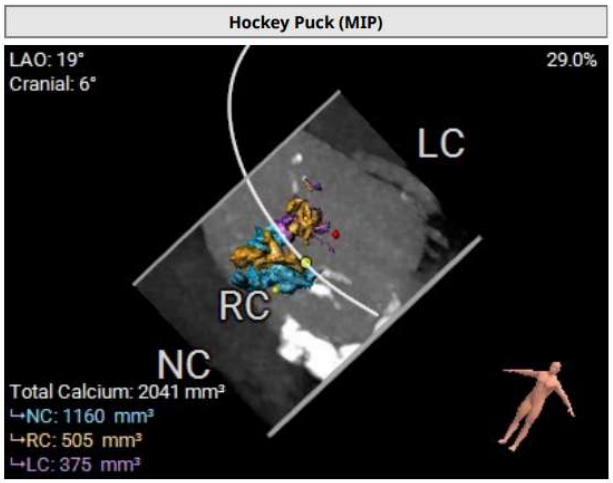
Calcium distribution





Calcium quantification





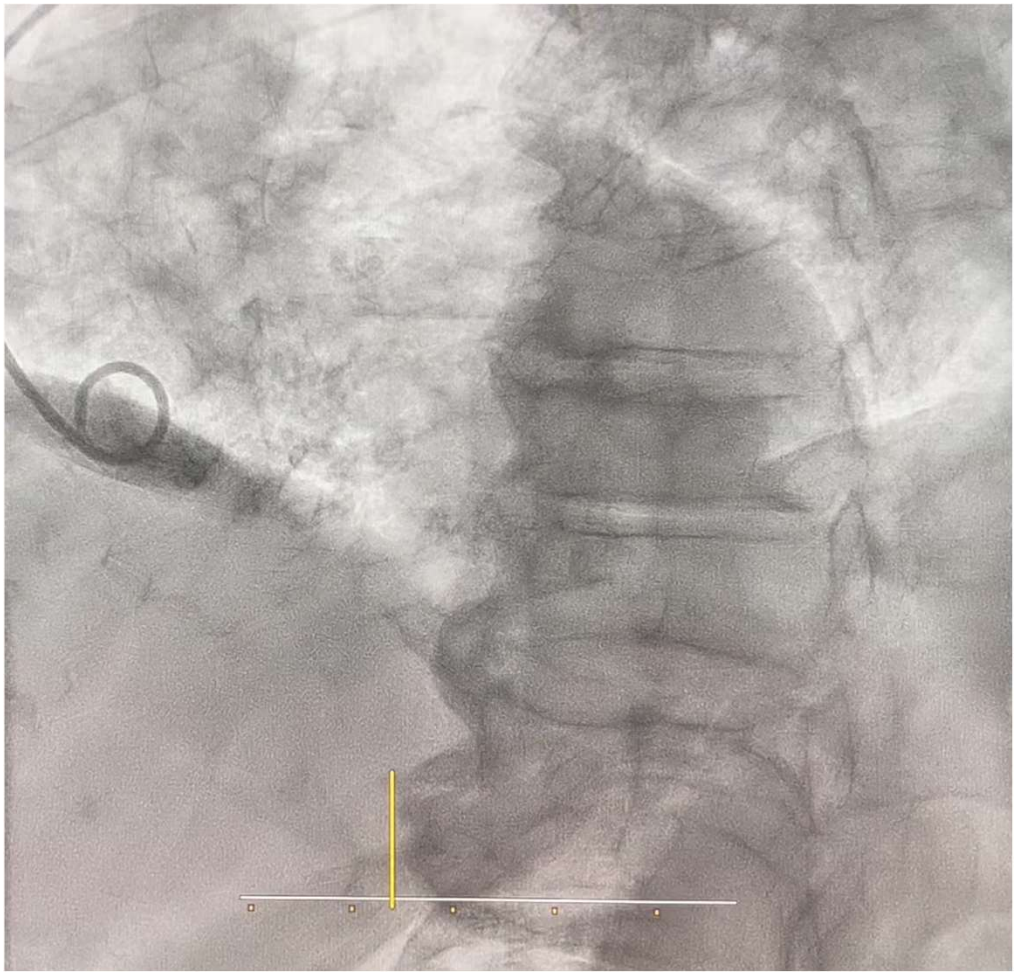
Sizing

- ALLEGRA™ size recommendation: 27
- Reason for size of the ALLEGRA™

  - Annulus (pd): 23.7 mm
  - Max annulus diameter: 25.7 mm
  - LVOT (pd): 22.1 mm.
  - Max LVOT diameter: 25.8 mm

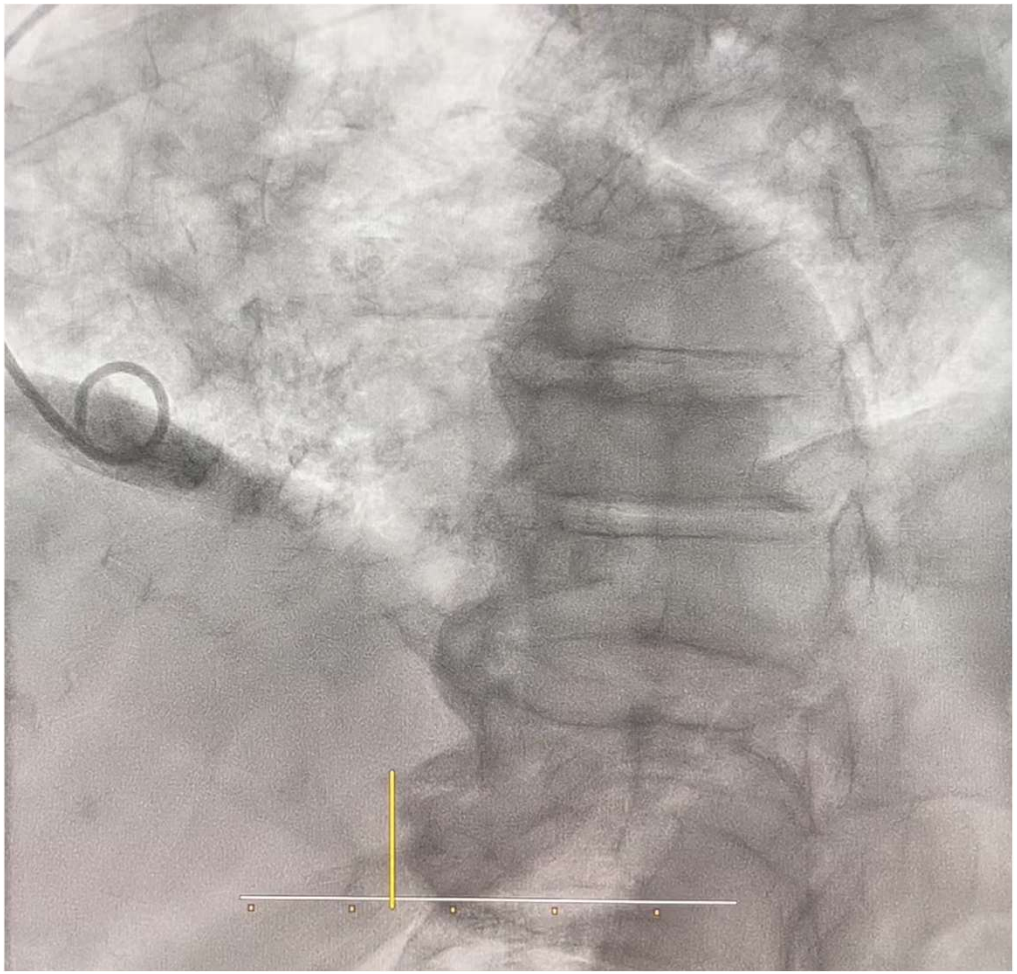
Procedure Description

- 3 cusps-view and pre valvuloplasty
- 22 mm balloon



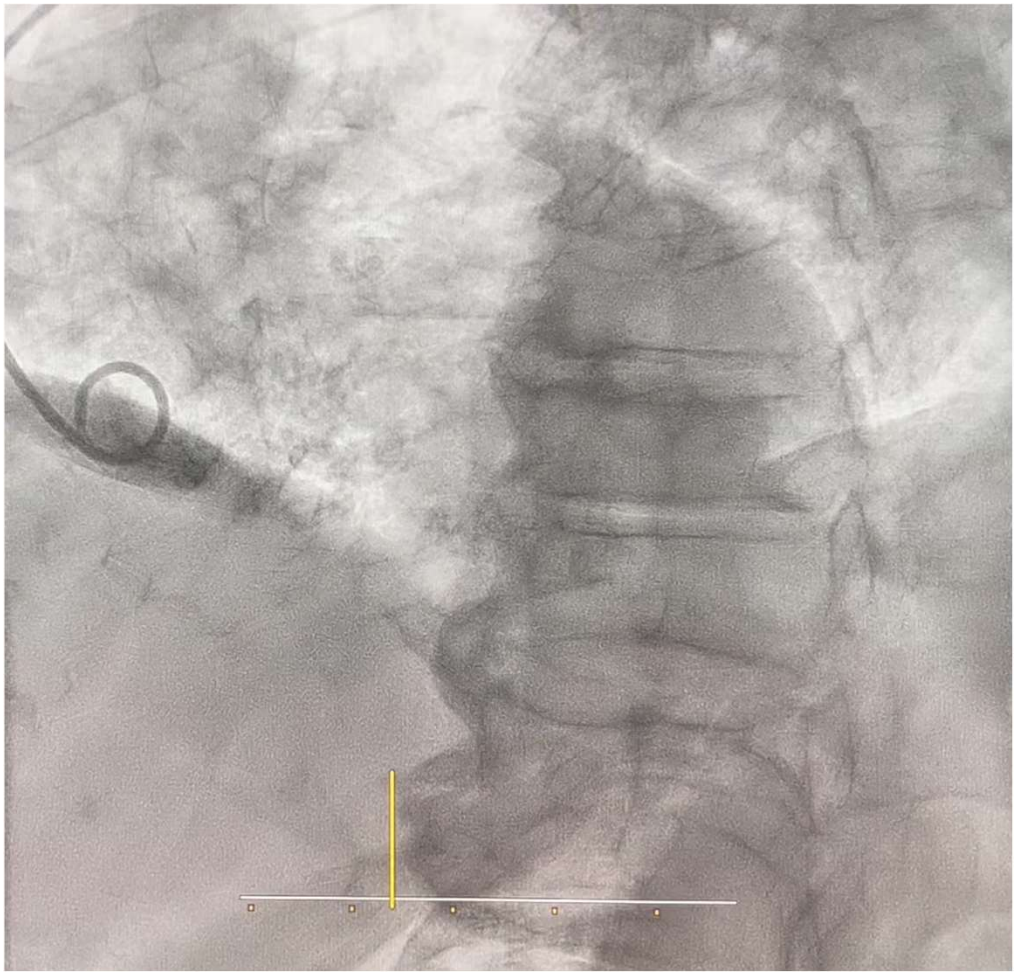
Procedure Description

- Permaflow and inflow opening



Procedure Description

- Final detachtment
- No regurgitation



Go 2 steps ahead!

- Access and positioning:
  - We had prepared a lunderquist that finally we haven't used to correct the tortuosity and coaxiality
- Huge calcification+ bad coaxiality+ kinking on the descending aorta:
  - TAKE TIME TO POSITIONATE
  - PACEMAKER IF IT'S NEEDED
  - If you can't see correctly the basal plane because of the calcification, **USE AS REFERENCE THE GOLD MARKERS ABOVE THE CALCIFICATION**