

University Clinical Center of Serbia



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PRESENTATION OF TAVI CENTER....

- Start of the TAVI program (1st TAVI): **August 23rd, 2022.**
- Number of TAVI till now: **28**
- Number of TAVI in 2022: **28**
- Number of independent operators in 2022: **2**
- Valves implanted and %: **EVOLUTE R and Pro 100%**
- 30-day mortality (from the beginning): **0%**
- 30-day mortality in 2021/22: **0%**

CASE REPORT-PREPROCEDURAL INFORMATION

- Patient
- Echo
- Coronary angiography/CCTA
- Key CT measurements for TAVI
- TAVI procedural plan

Patient, 86 years old, male

- Worsening dyspnea, lightheadedness without syncopal episodes,
- Prior MI in 2017.
- Prior CABG No II 2017
- Prior PCI in 2018
- HBI Cr 140
- STS 3.22%, EUROSCORE II 7.85%, Katz frailty score 6, Clinical frailty score 4

CASE REPORT-PREPROCEDURAL INFORMATION

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Patient, 86 years old, male

- EF 60%, no WMA abnormalities
- AVA 0.5 cm², PG 60, MG 38mmHg, AR 1+
- MR 1-2+, TR 1+

CASE REPORT-PREPROCEDURAL INFORMATION

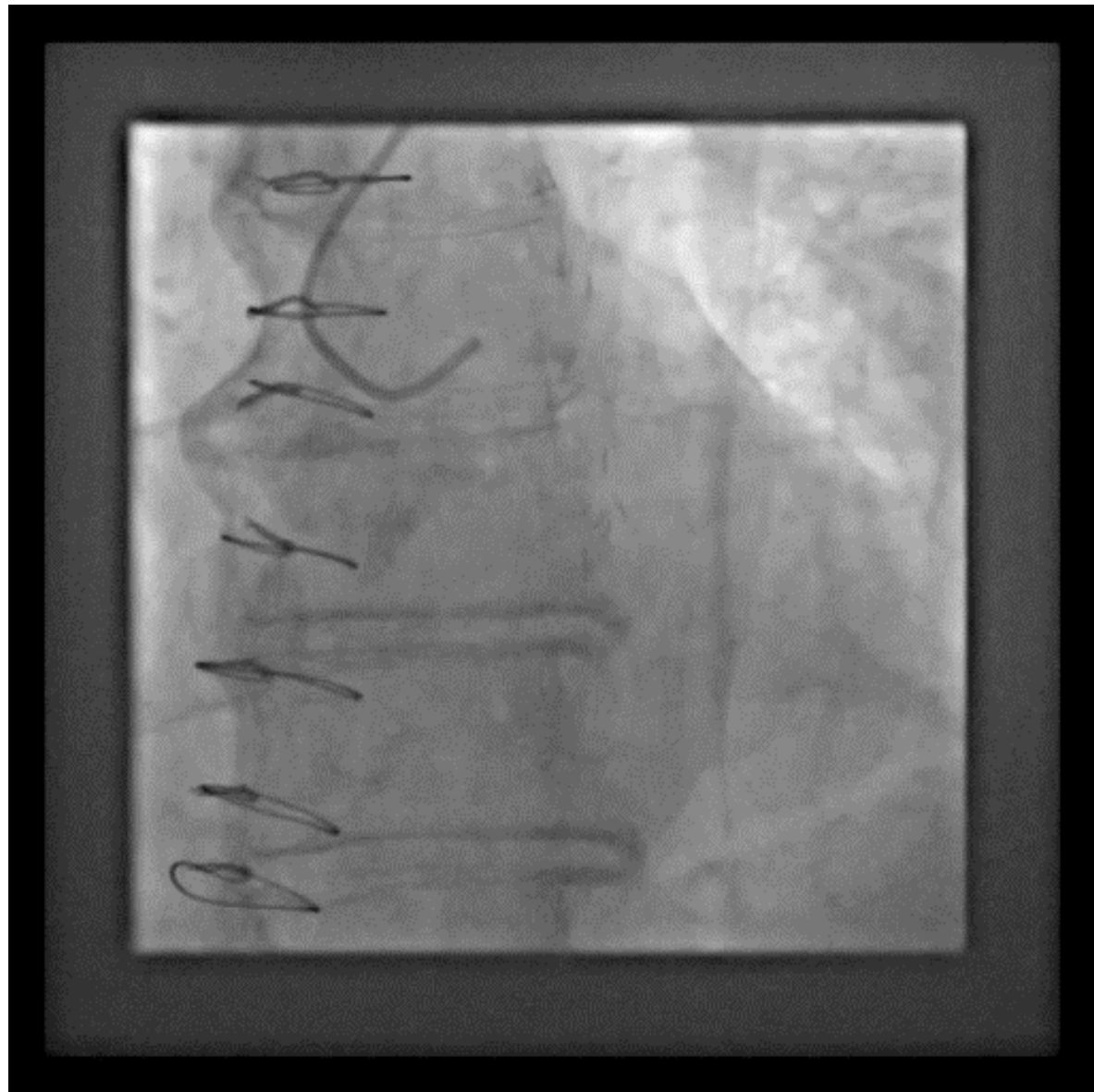
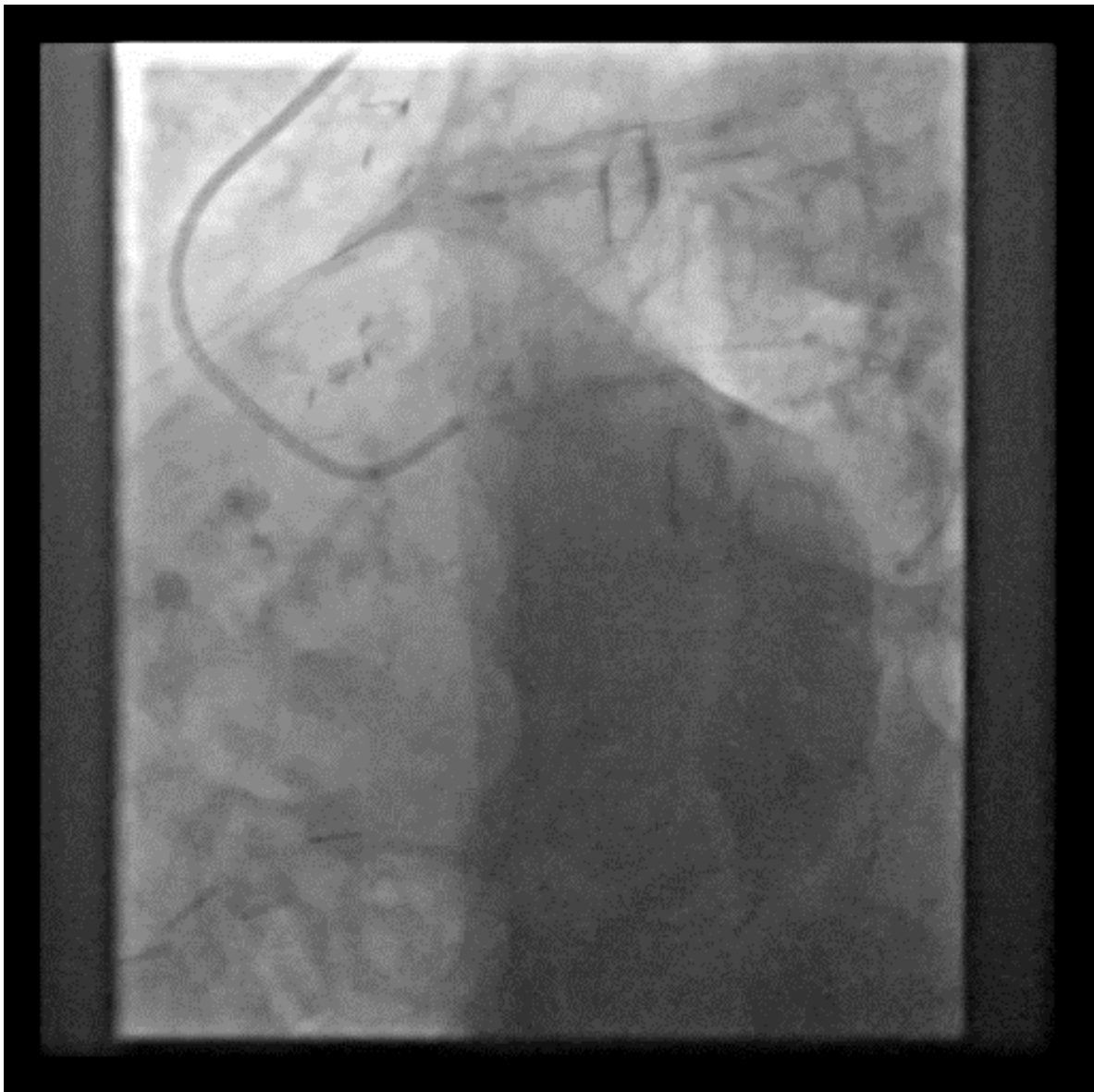
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Patient, 86 years old, male

- Coronarography and ad hoc PCI Jun 2022
- Calcified distal LM lesion. Occluded mid LAD. Diffusely diseased Cx. Occluded OM1. RCA NCS stenosis.
- LIMA patent

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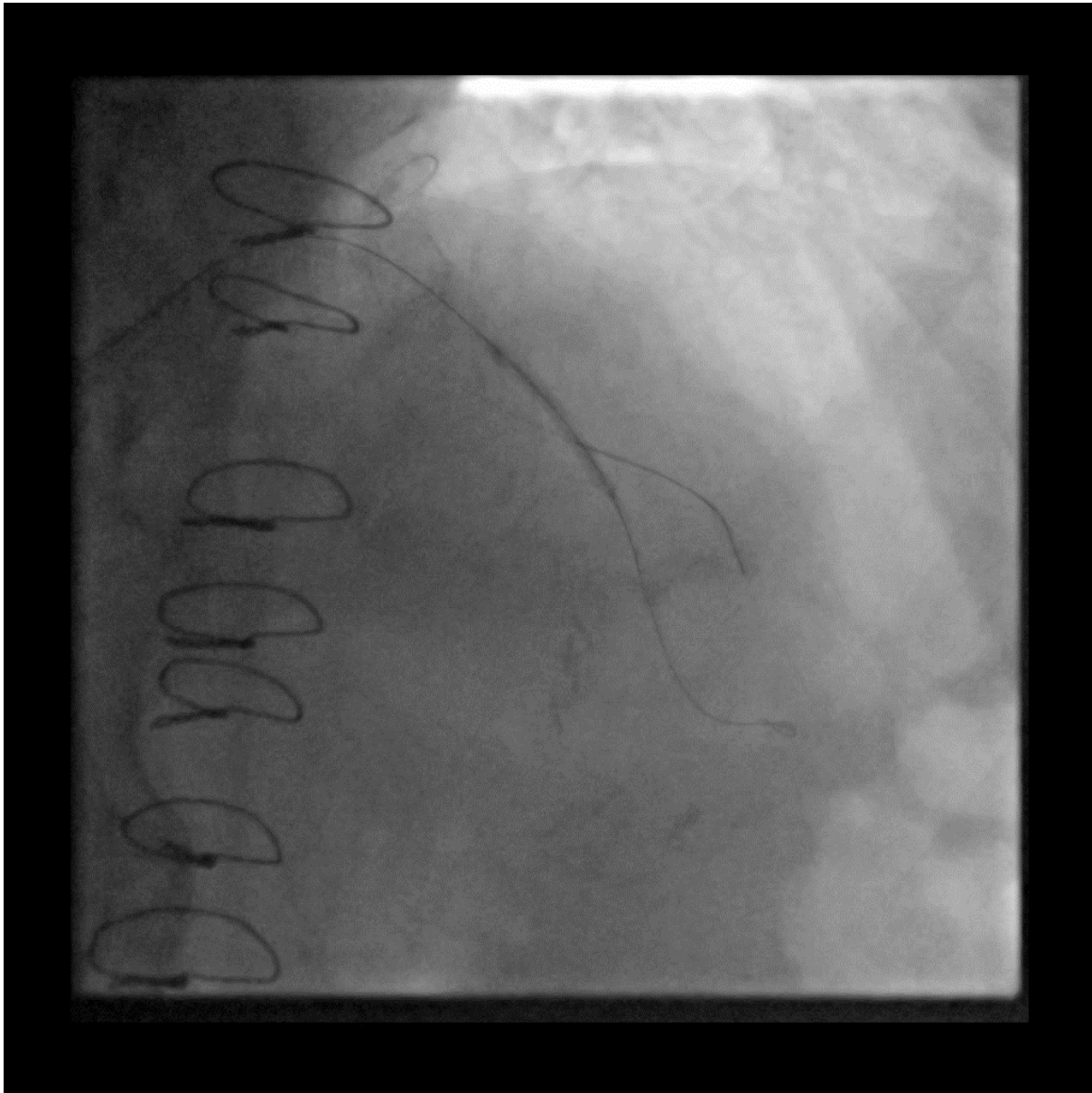
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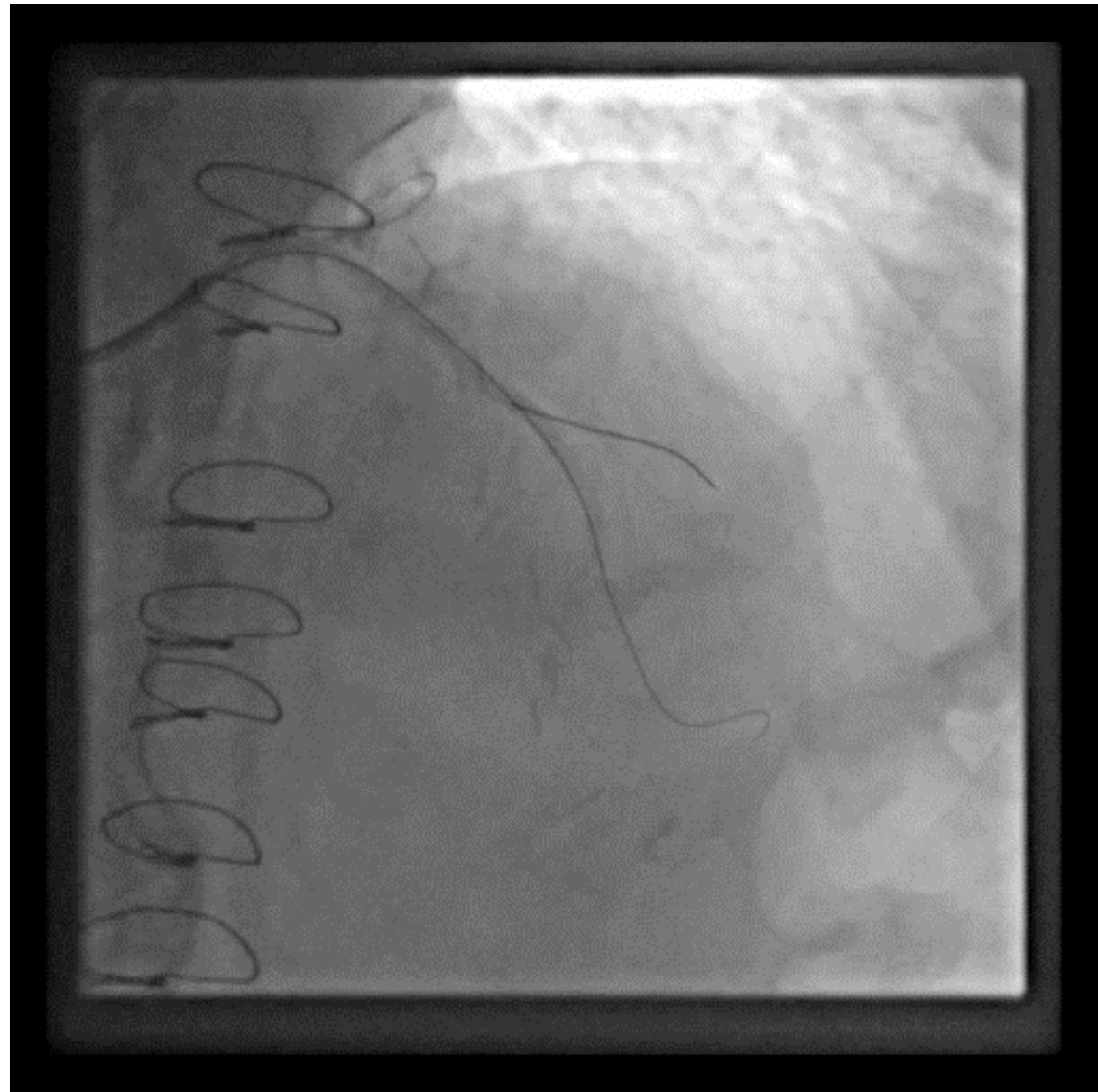
Patient, 86 years old, male

- Coronarography and ad hoc PCI Jun 2022
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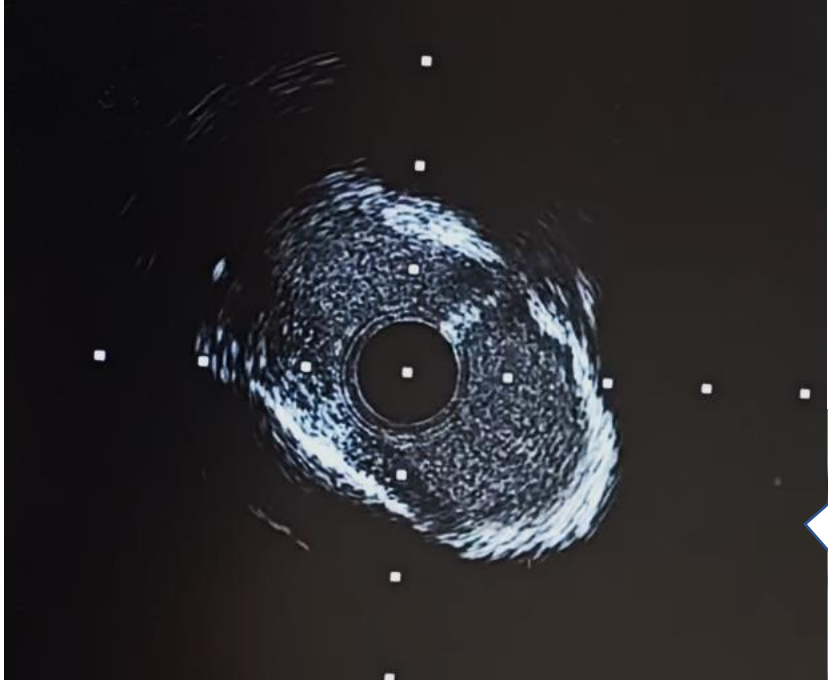
PCI of LAD and IVUS interrogation for the LM



DES 2.25x23mm

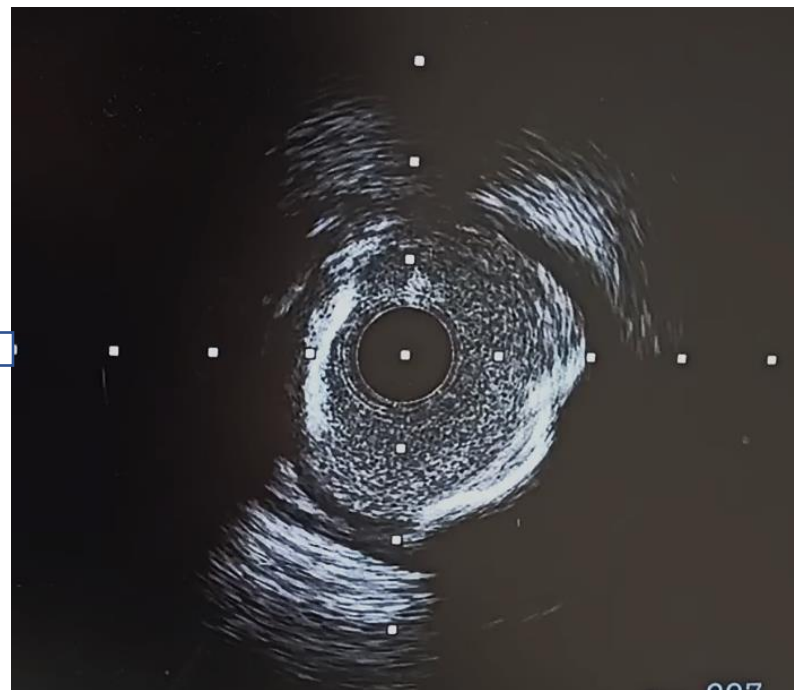
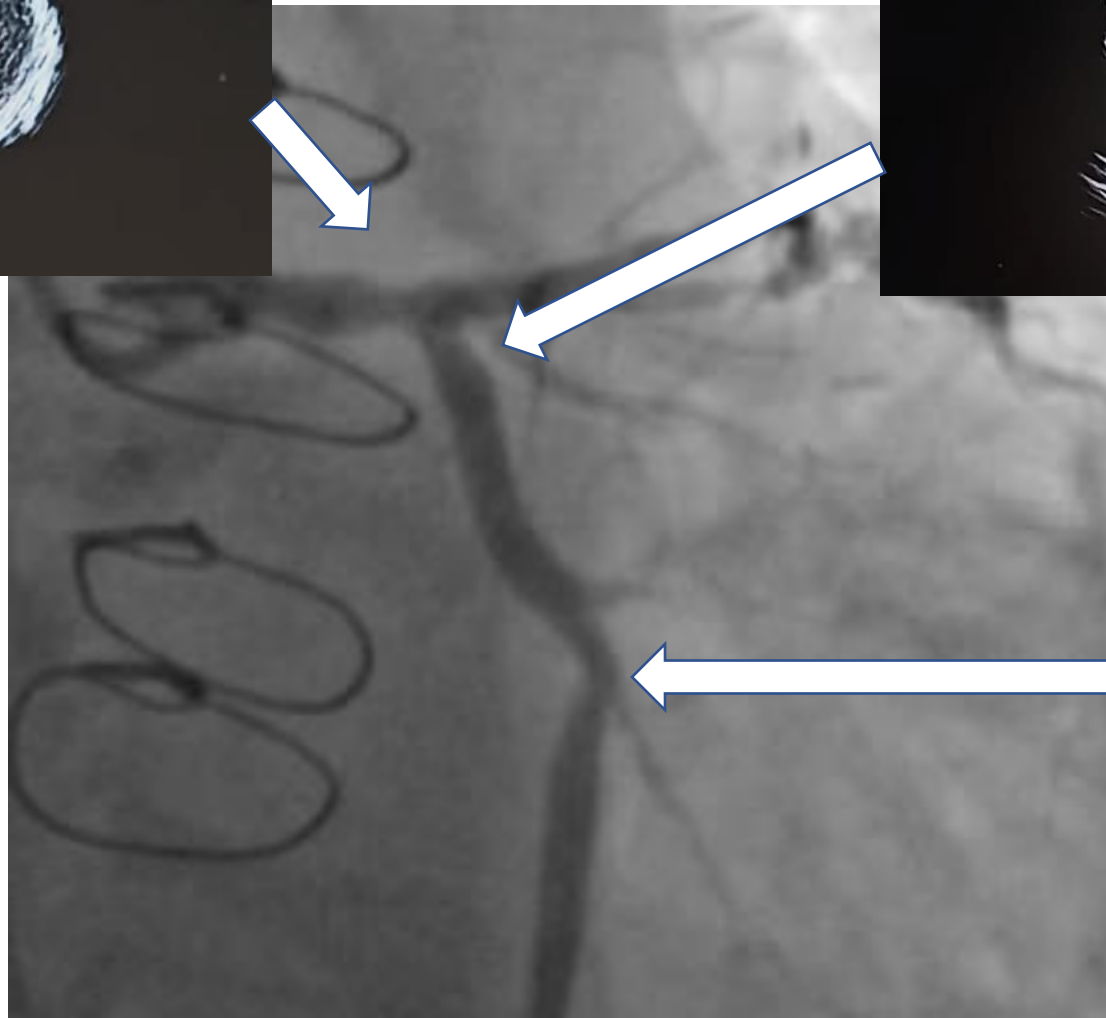


DES 2.5x16mm

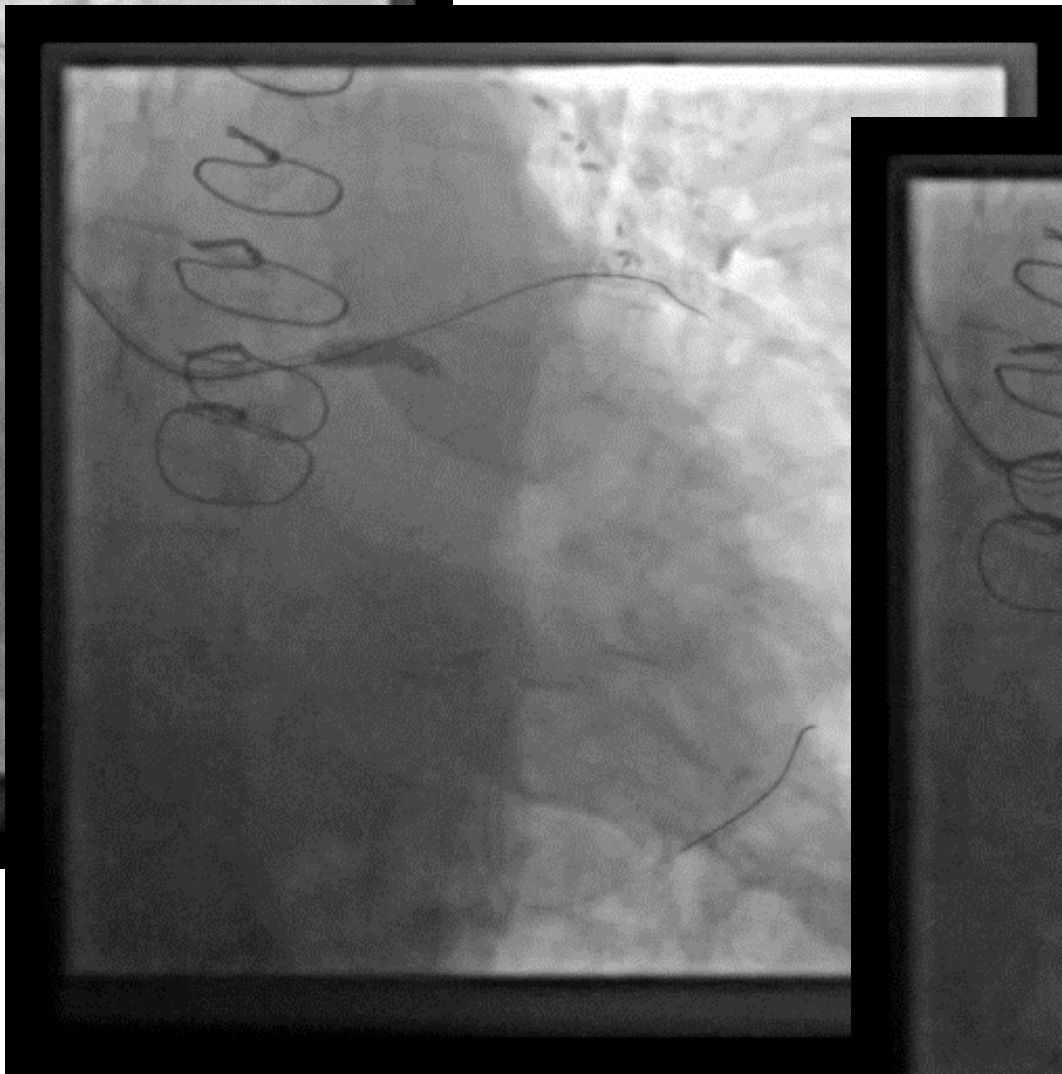


300 calcium ring

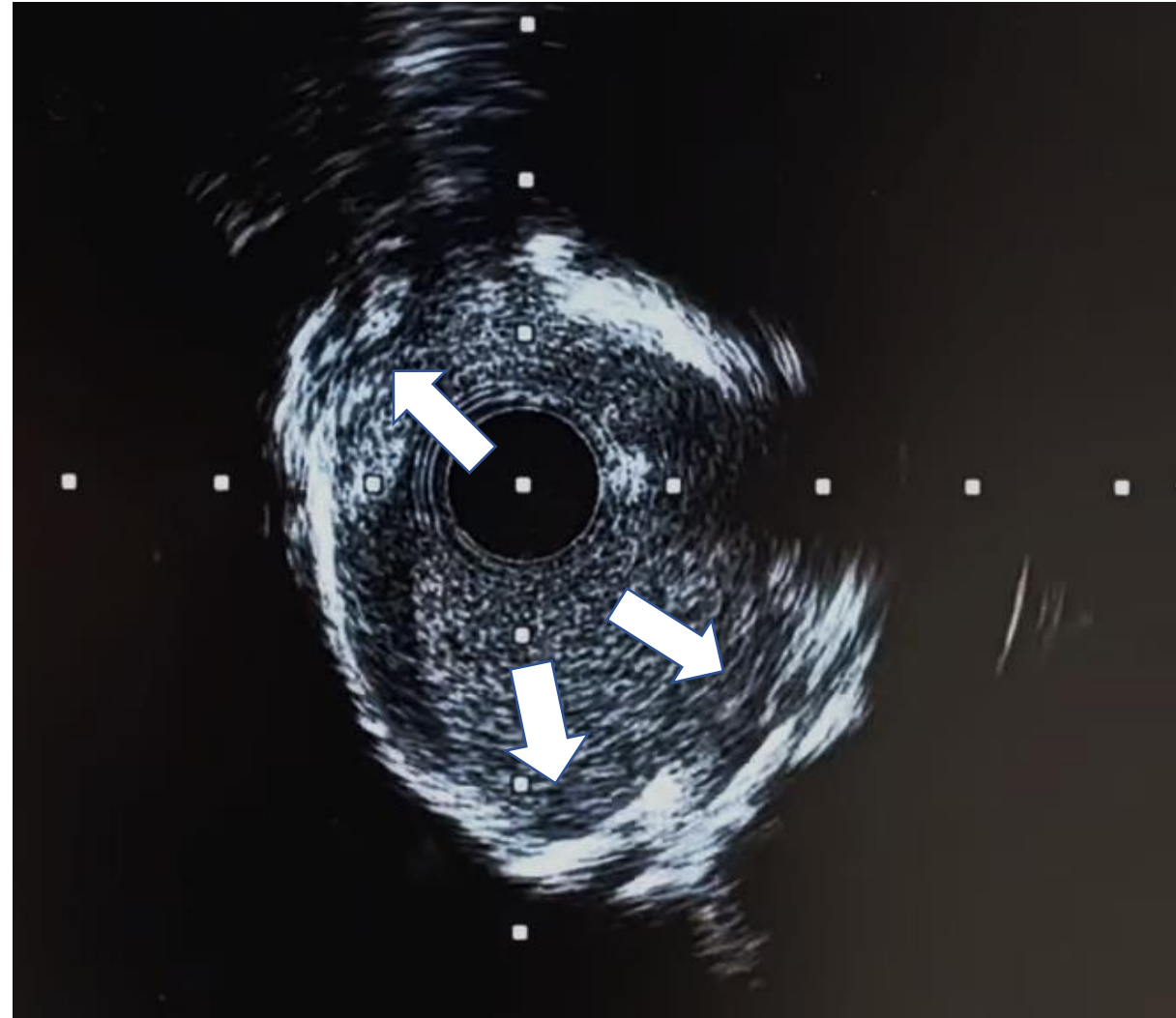
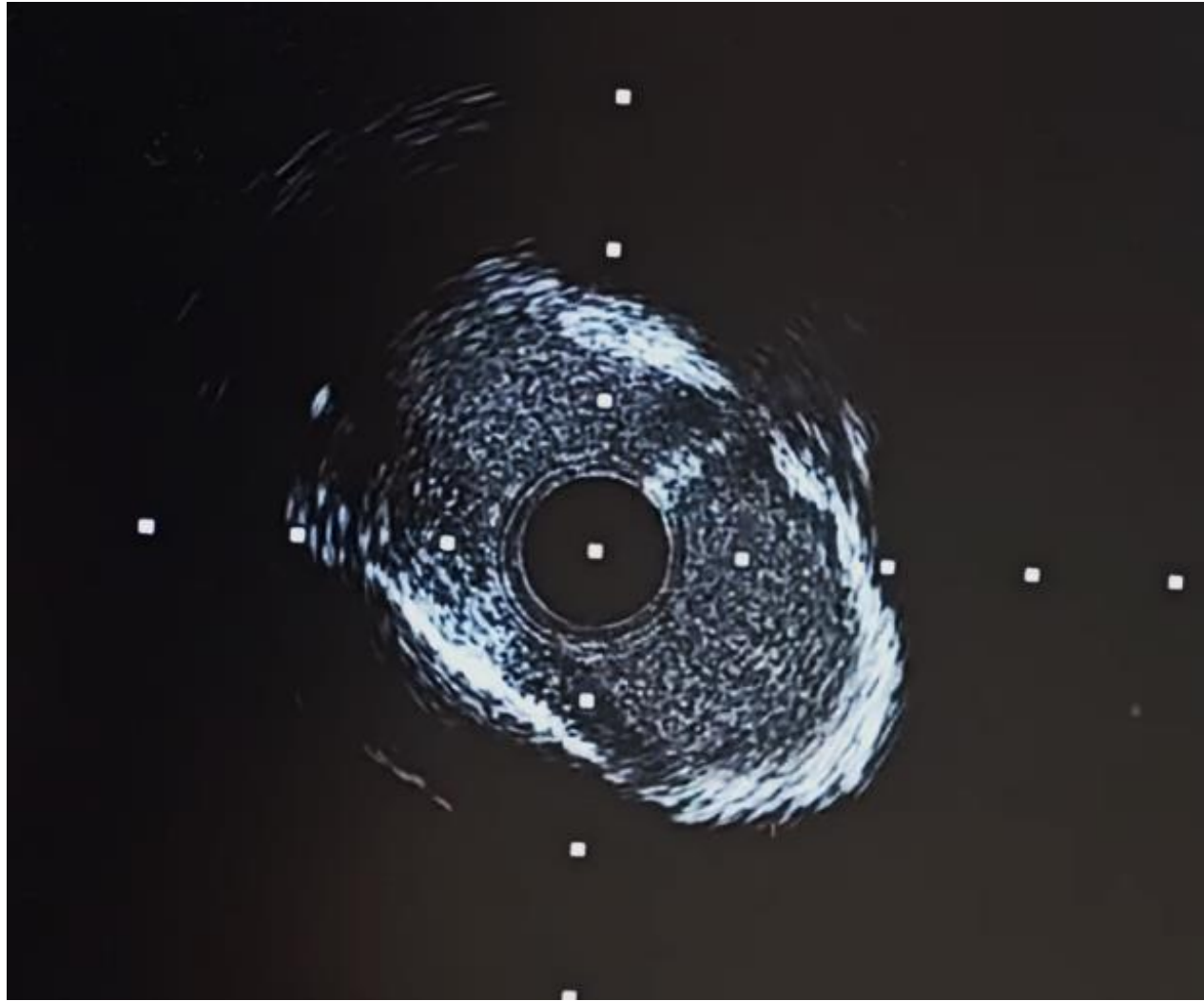
Area <math>< 5\text{mm}^2</math>

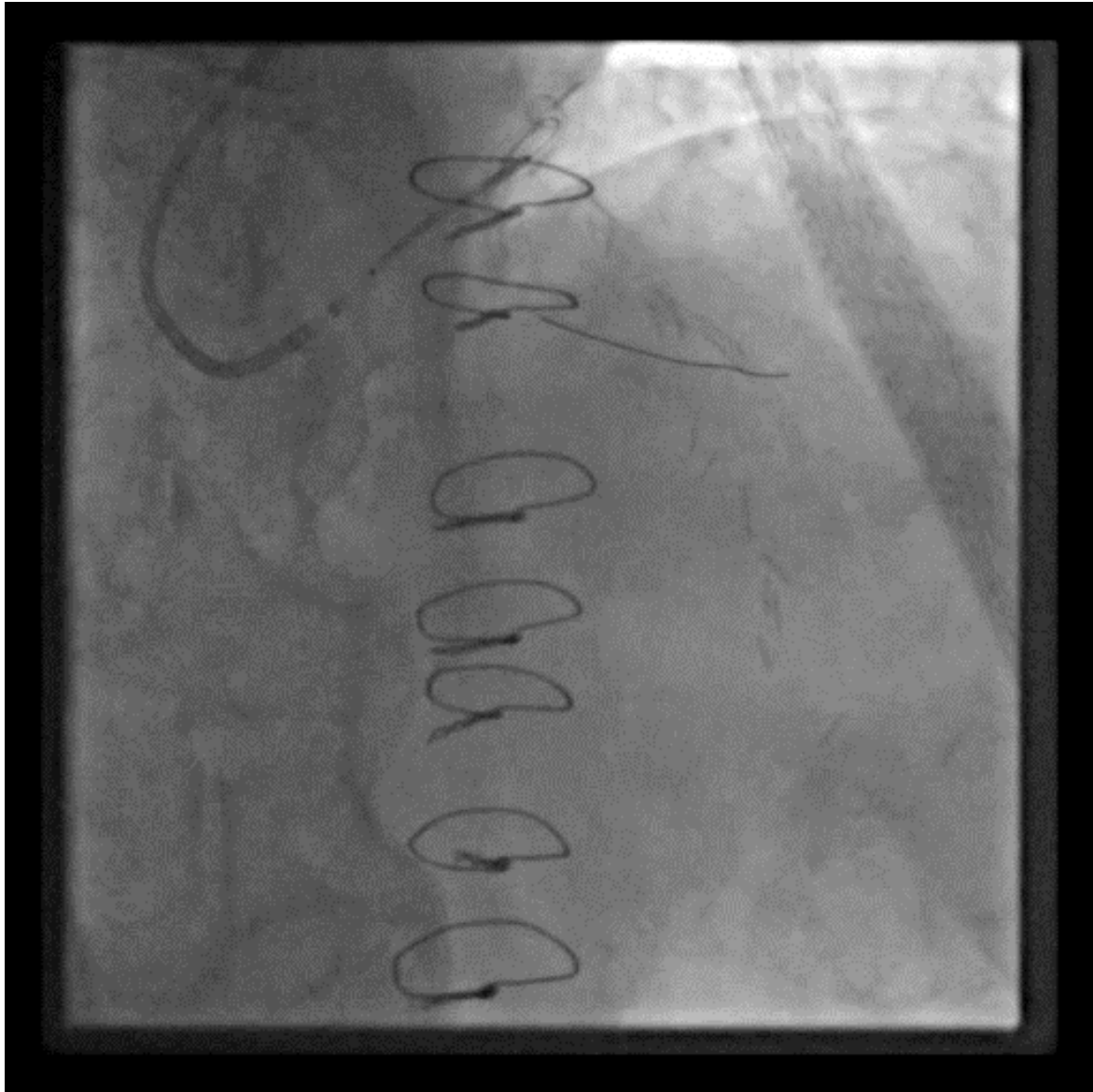


ShockWave 4x12mm

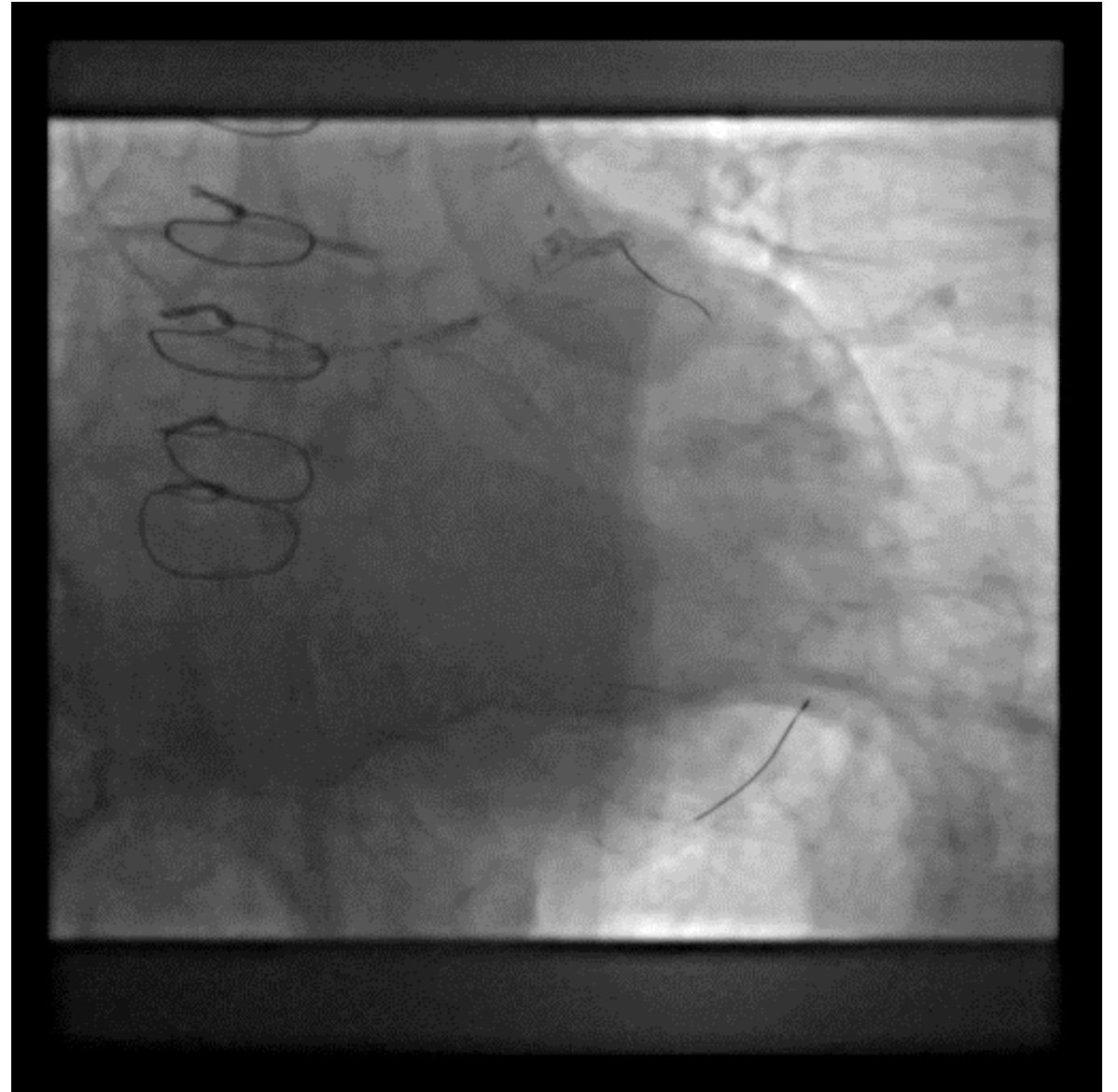


Post IVL

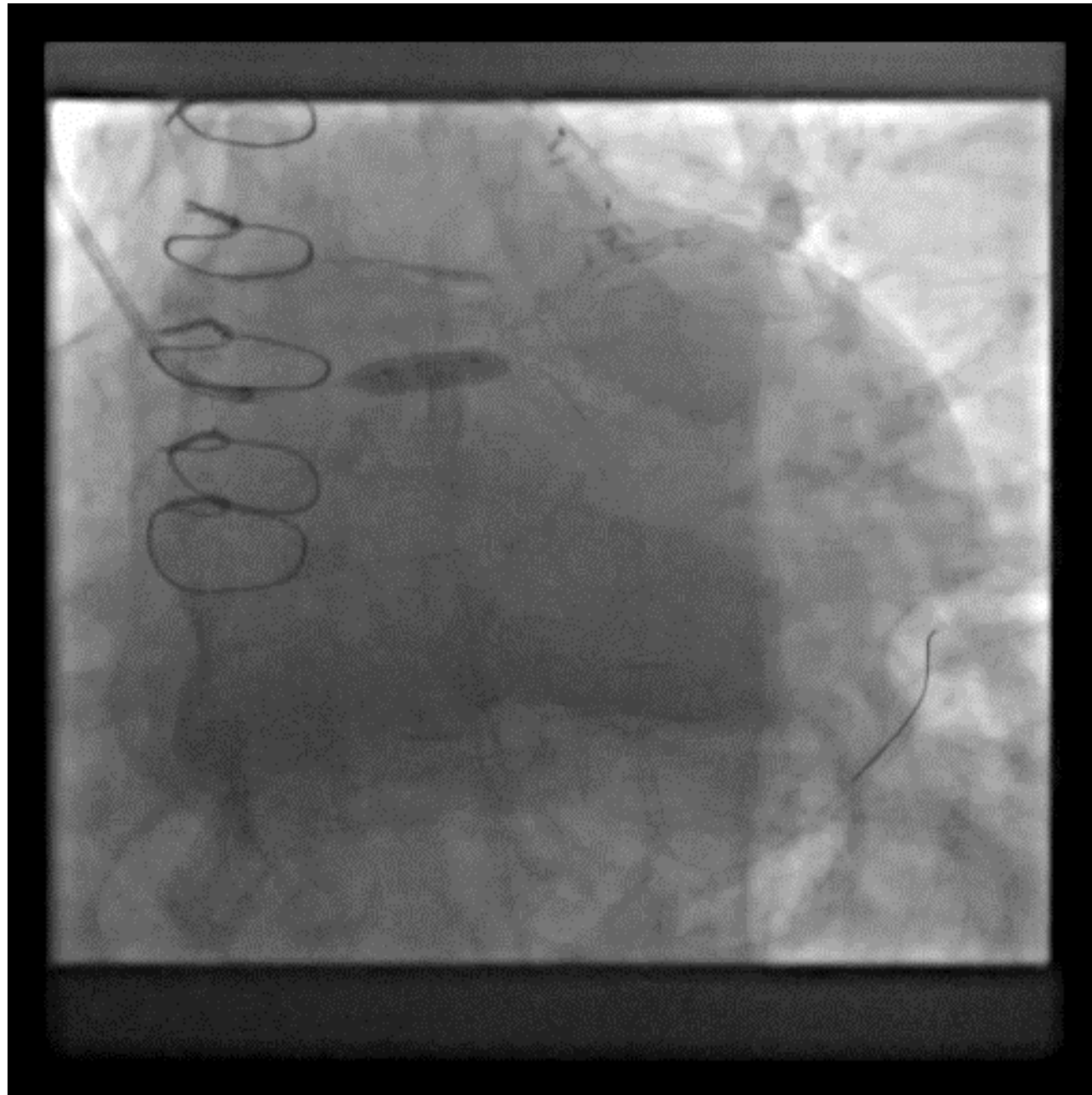




DES 4.0x28mm



Balloon 3x12mm



Balloon 5x12mm

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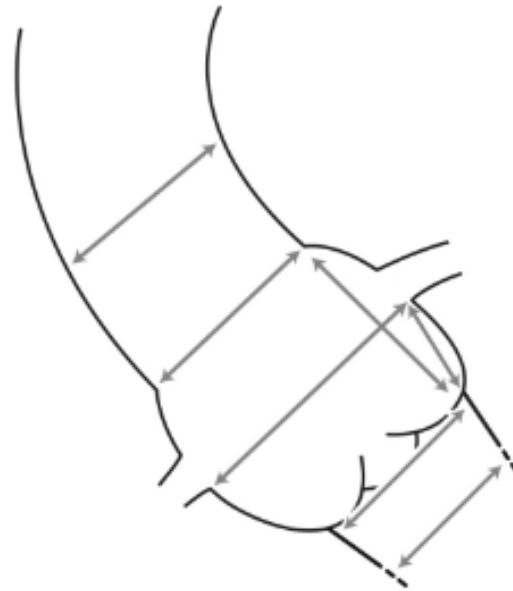
MEDTRONIC ANALYSIS

ANNULUS

Diameter (mm)	<u>23,9</u>	x	<u>26,2</u>	,	<u>25,1</u>
	Min		Max		Mean
Perimeter (mm)	<u>78,3</u>		Derived Ø (mm)		<u>24,9</u>
Area (mm ²)	<u>485,8</u>		Derived Ø (mm)		<u>24,9</u>

LVOT

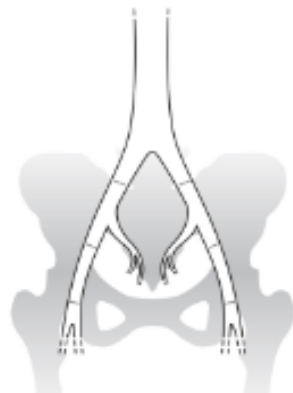
Diameter (mm)	<u>22,8</u>	x	<u>28,8</u>	,	<u>25,8</u>
	Min		Max		Mean
Perimeter (mm)	<u>79,9</u>		Derived Ø (mm)		<u>25,4</u>
Area (mm ²)	<u>489,4</u>		Derived Ø (mm)		<u>25,0</u>



Max Ascending Aorta Diameter (mm)	<u>30,2</u>		
Sinotubular Junction Diameter (mm)	<u>27,5</u>	x	<u>28,6</u>
	Min		Max
Sinus of Valsalva Diameter (mm)	<u>31,1</u>	<u>31,1</u>	<u>31,8</u>
	LCC	RCC	NCC
Sinus of Valsalva Height (mm)	<u>22,7</u>	<u>22,0</u>	<u>20,1</u>
	LCC	RCC	NCC
Coronary Ostia Height (mm)	<u>15,0</u>	<u>16,0</u>	
	Left	Right	

RIGHT

CIA Min Diameter (mm)	<u>11,0</u>	x	<u>11,8</u>
EIA Min Diameter (mm)	<u>8,6</u>	x	<u>8,9</u>
Femoral Min Diameter (mm)	<u>8,4</u>	x	<u>8,8</u>



LEFT

CIA Min Diameter (mm)	<u>8,0</u>	x	<u>9,3</u>
EIA Min Diameter (mm)	<u>8,3</u>	x	<u>8,4</u>
Femoral Min Diameter (mm)	<u>8,3</u>	x	<u>9,1</u>

RIGHT

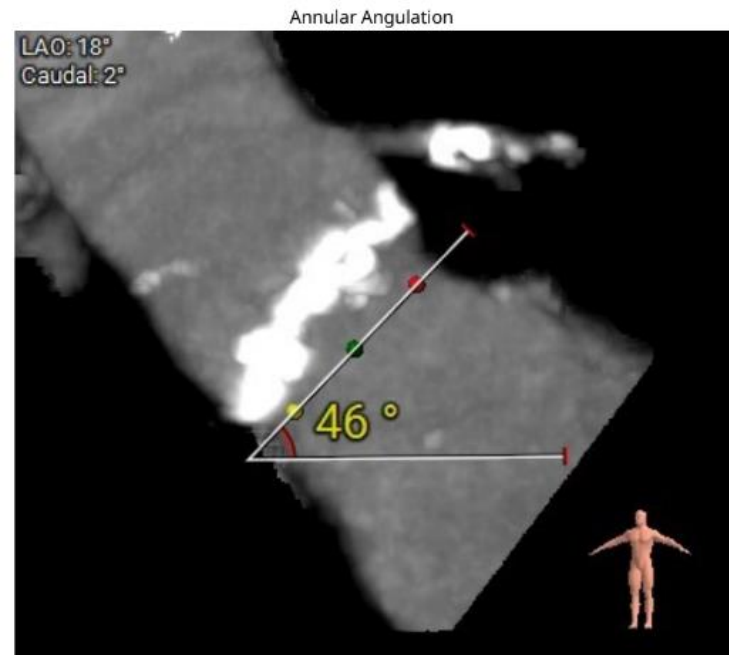
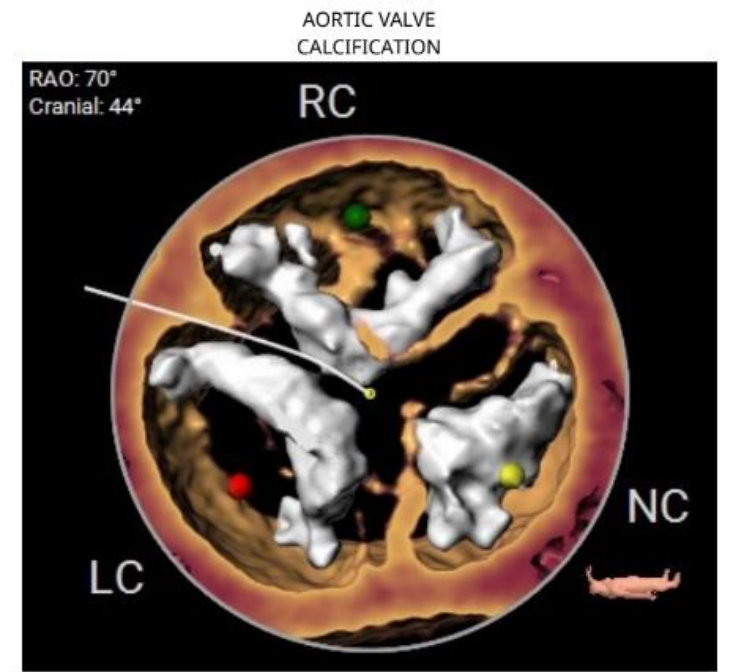
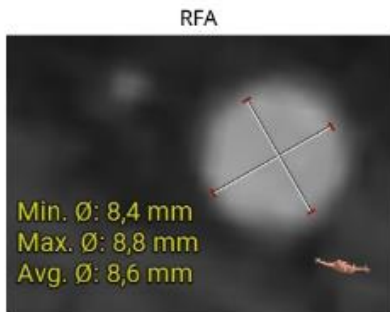
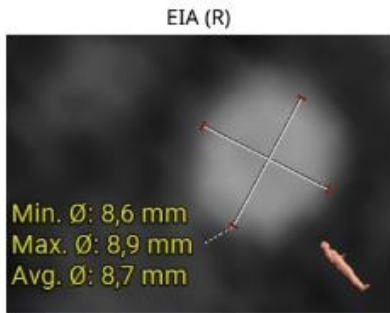
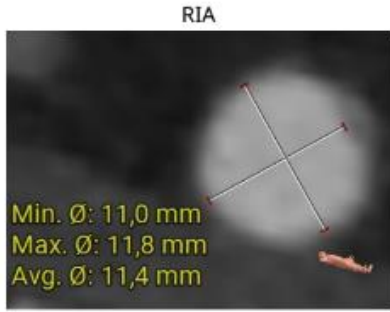
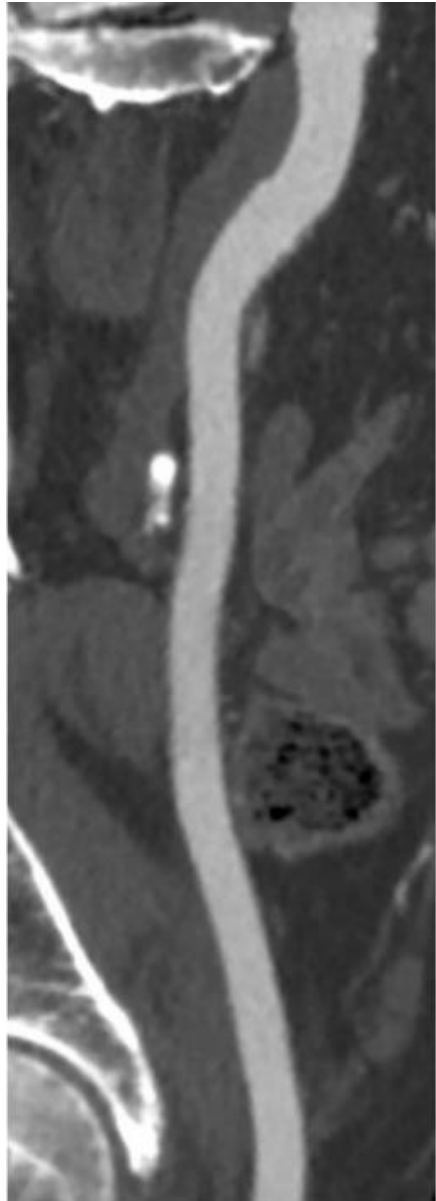
Subclavian Min Diameter (mm)	<u>///</u>	x	<u>///</u>
Annular Angulation	<u>≈46°</u>		

LEFT

Subclavian Min Diameter (mm)	<u>///</u>	x	<u>///</u>
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Please review images for direct aortic evaluation.



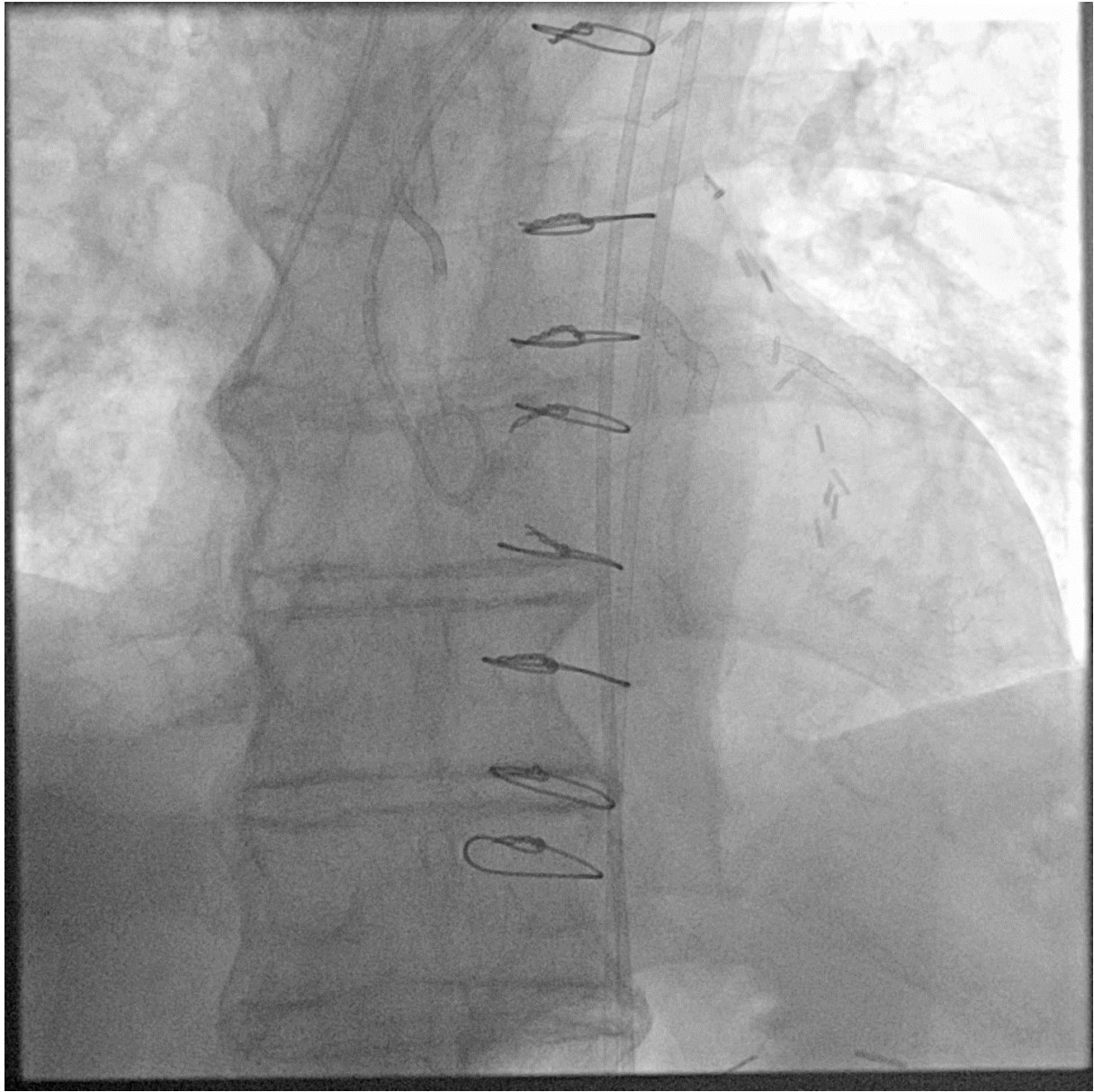
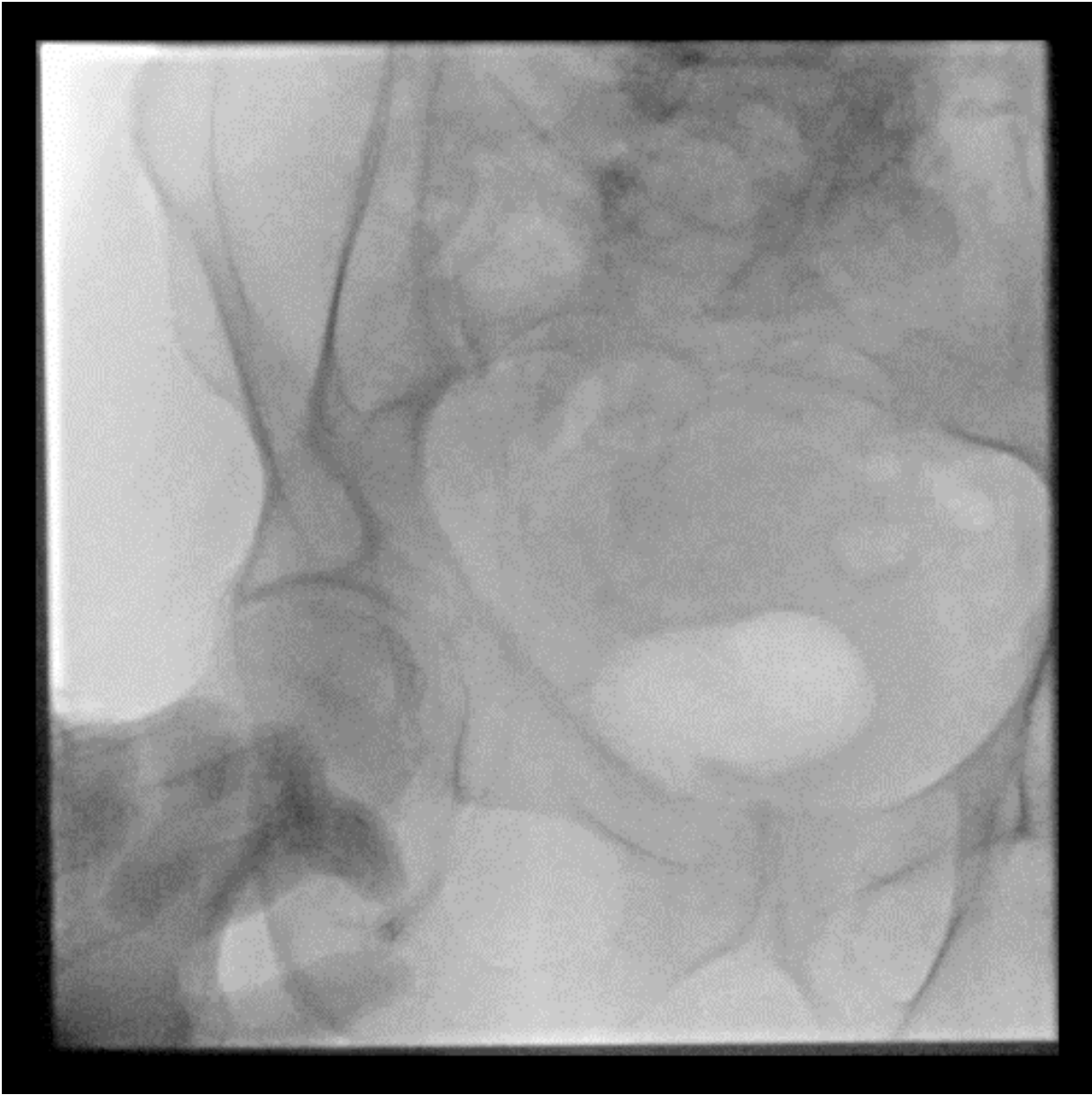
This is only an estimation.

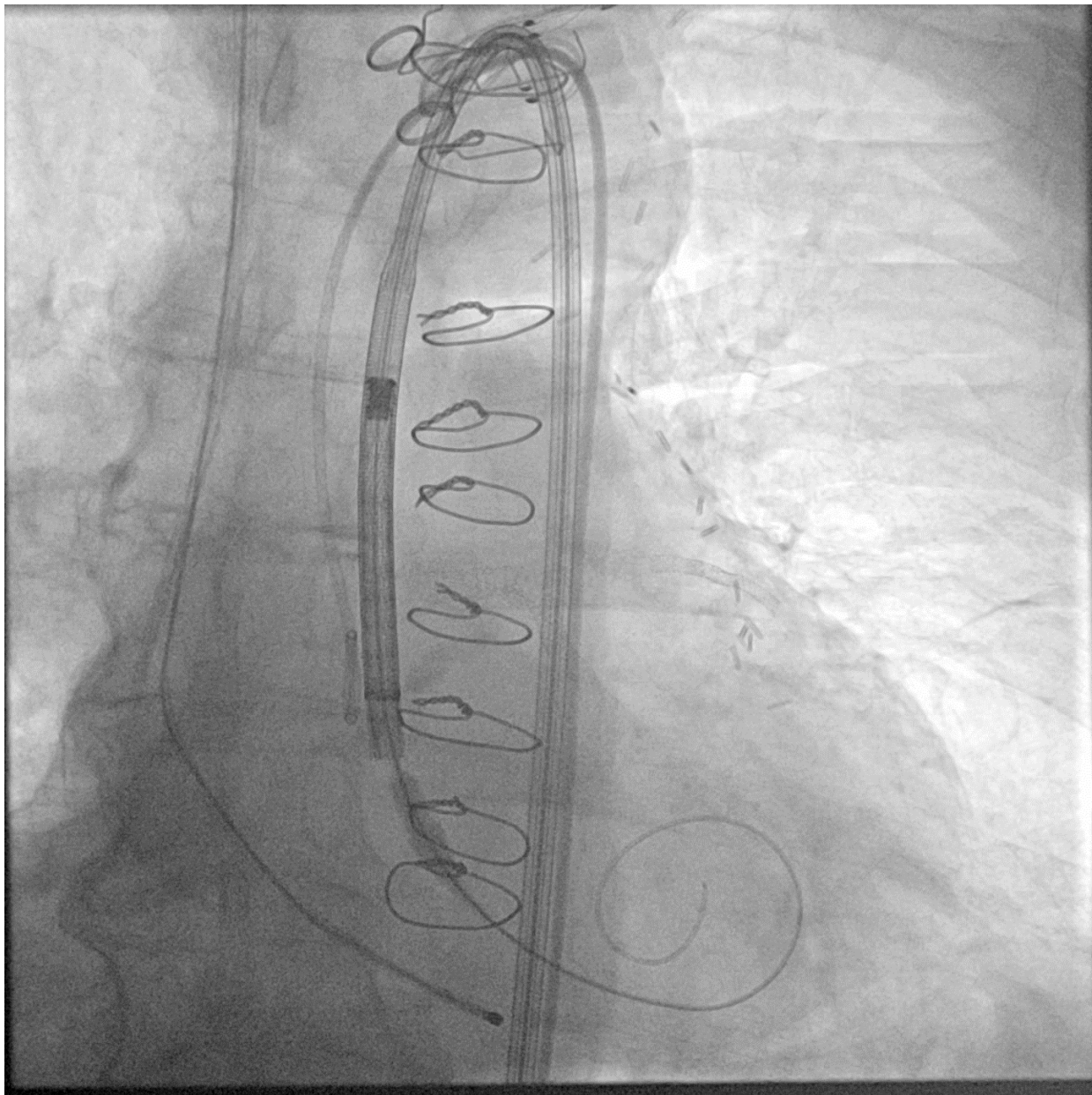
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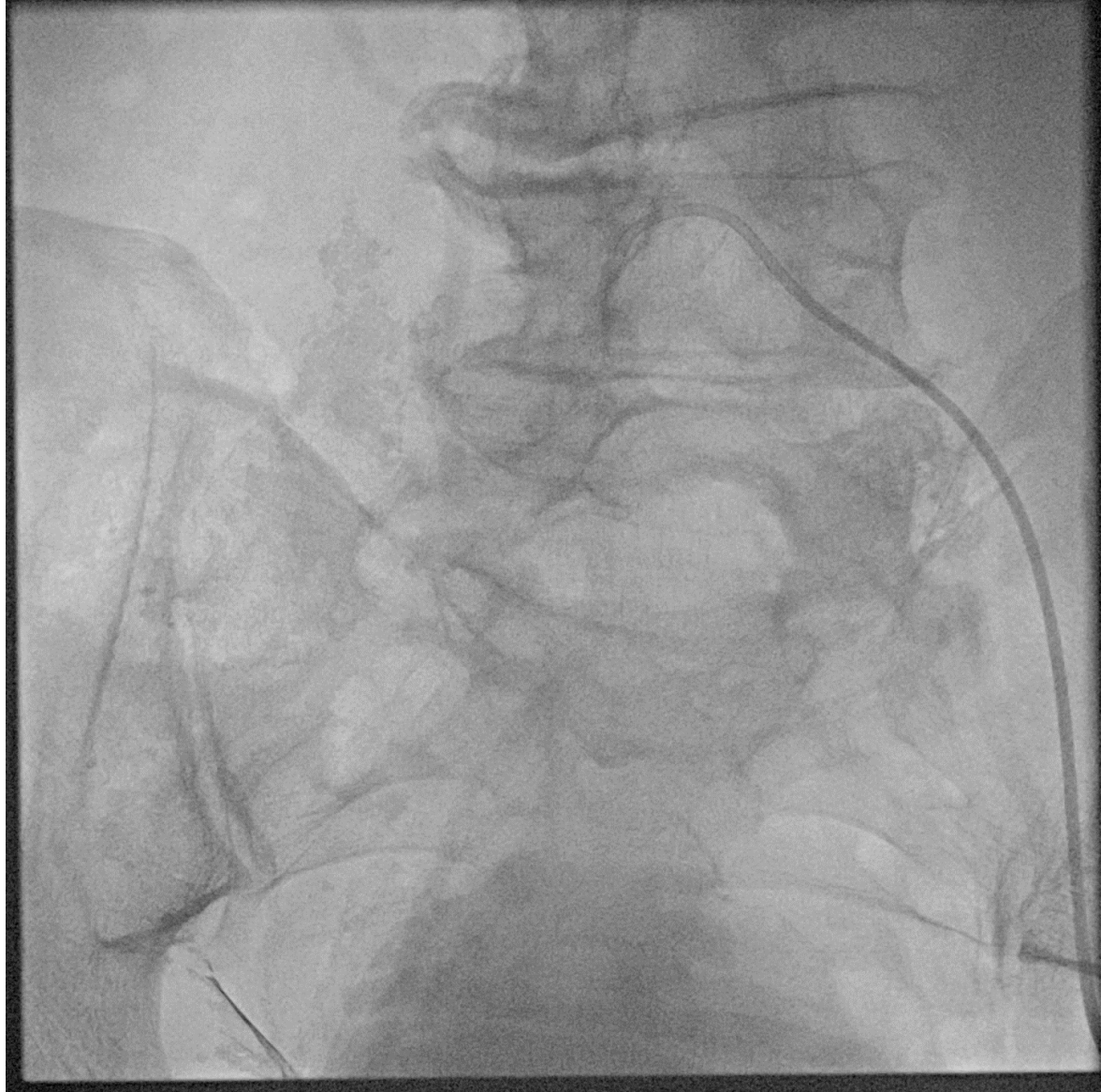
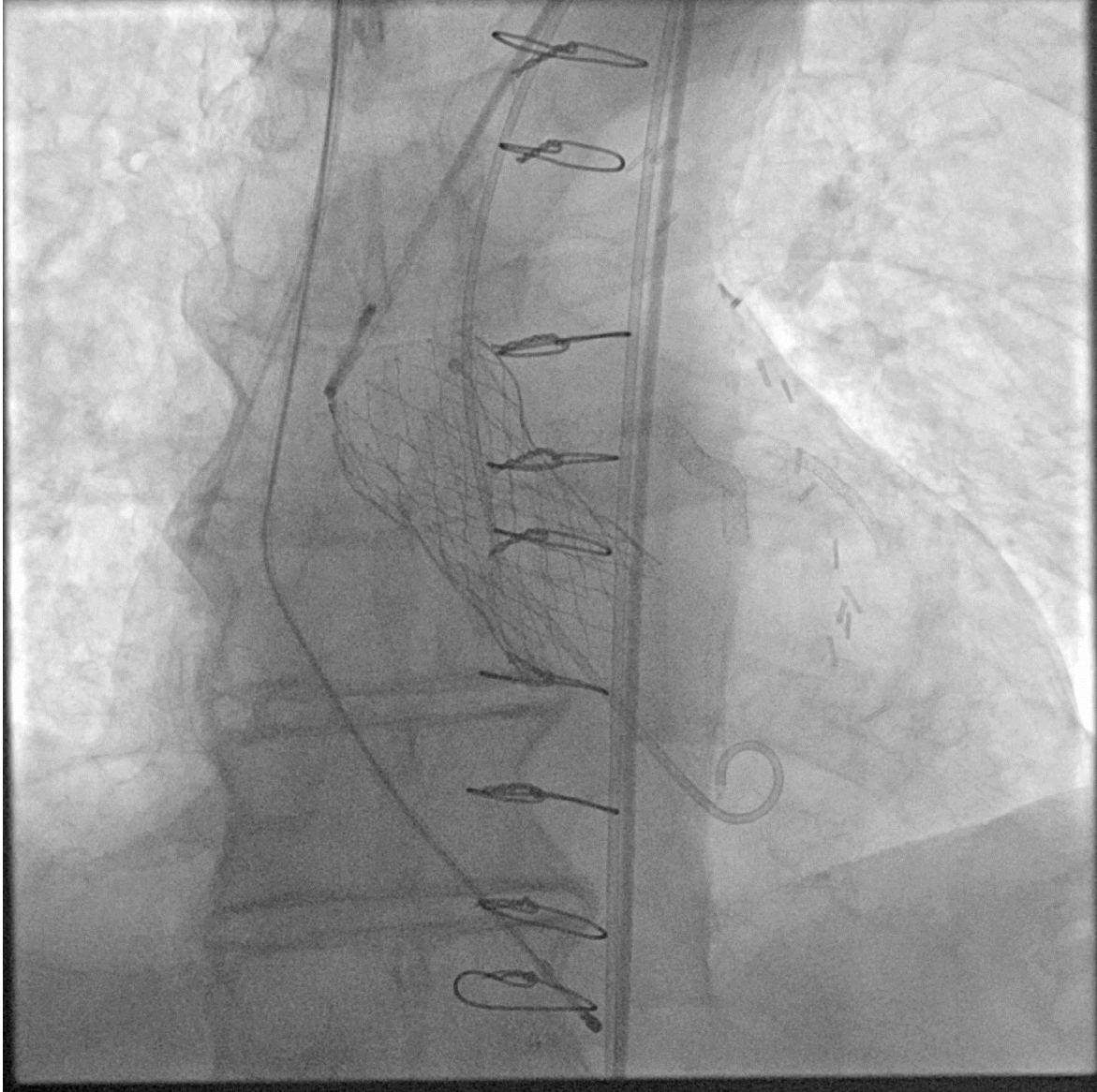
CASE REPORT-KEY PROCEDURAL STEPS (1)

- Bi-femoral access, right primary 14 Fr, left secondary 6 Fr (planned to go sheetless)
- EVOLUTE R 29mm
- Direct implantation planned, postdilatation if needed
- Temporary pacing via jugular vein
- Proglide + Angioseal 8Fr right, Angioseal 6Fr left closure









CLINICAL OUTCOME and FU

- Post TAVI ECHO no complications, max gradient 17mmHg, AR mild
- Discharged without complications
- 30 days FU EF 56%, PG 13, mean 7 mmHg, paravalvular AR 1+
- 90 days FU PG 10 mmHg, AR 1+
- ASA, Clopidogrel

WHY DID I SHOW THIS CASE?

- It was my **FIRST TAVI!!!**

*When was the last time,
you did something for the first time?*



Vanja, first steps Feb 2021