

**TURIN,
October
25th-27th
2018
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**GIORNATE
CARDIOLOGICHE
TORINESI**



PATIENT WITH SEVERE AORTIC STENOSIS AND CAD

Francesca Giordana

**Division of Cardiology
Cardio-Vascular and Thoracic Department
AOU Città della Salute e della Scienza di Torino**

Friday, October 26th 2018



04/2010

P. Margherita

75 yo

Arterial hypertension, dyslipidemia

Previous breast cancer, underwent surgery+CT+RT→Sternal hyperostosis

Para-sternal chronic ulcer

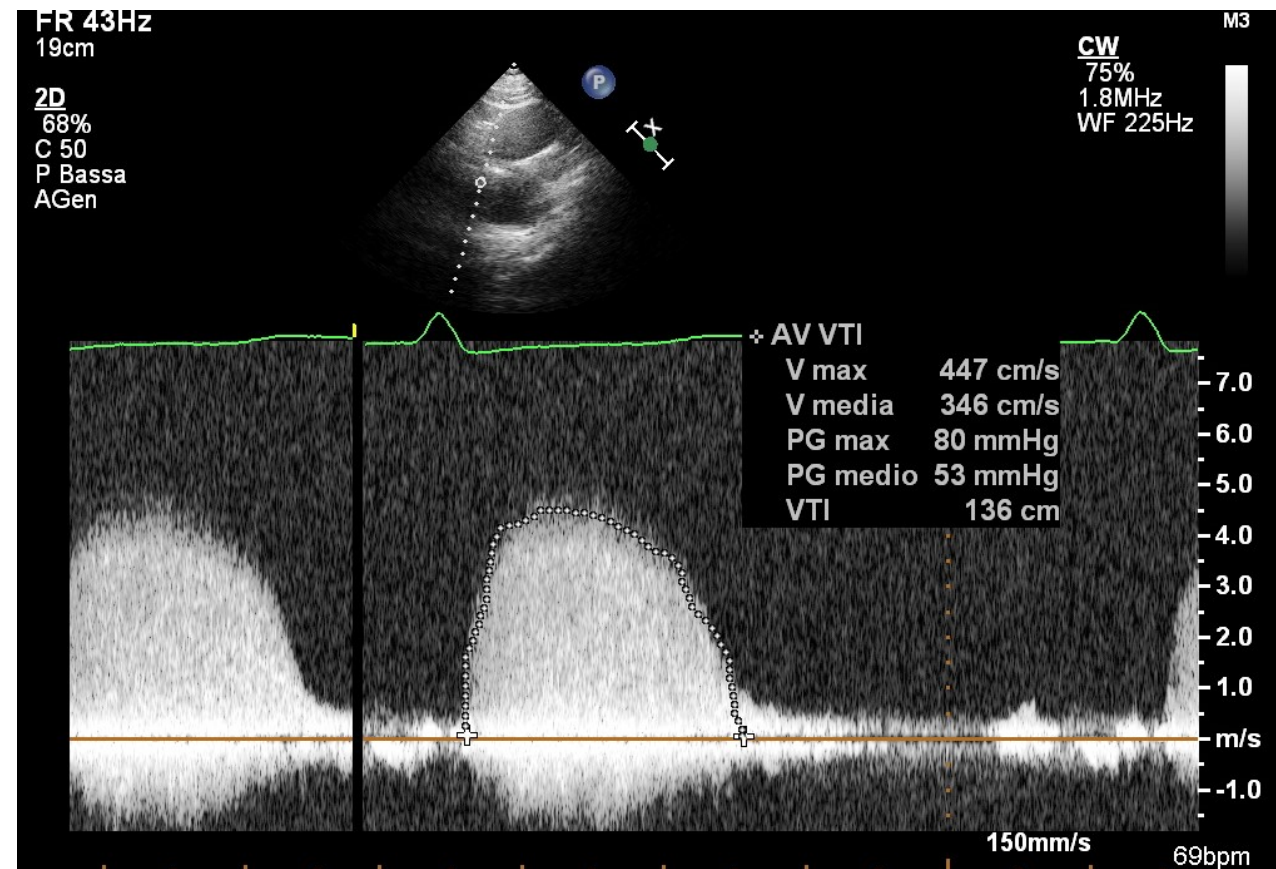
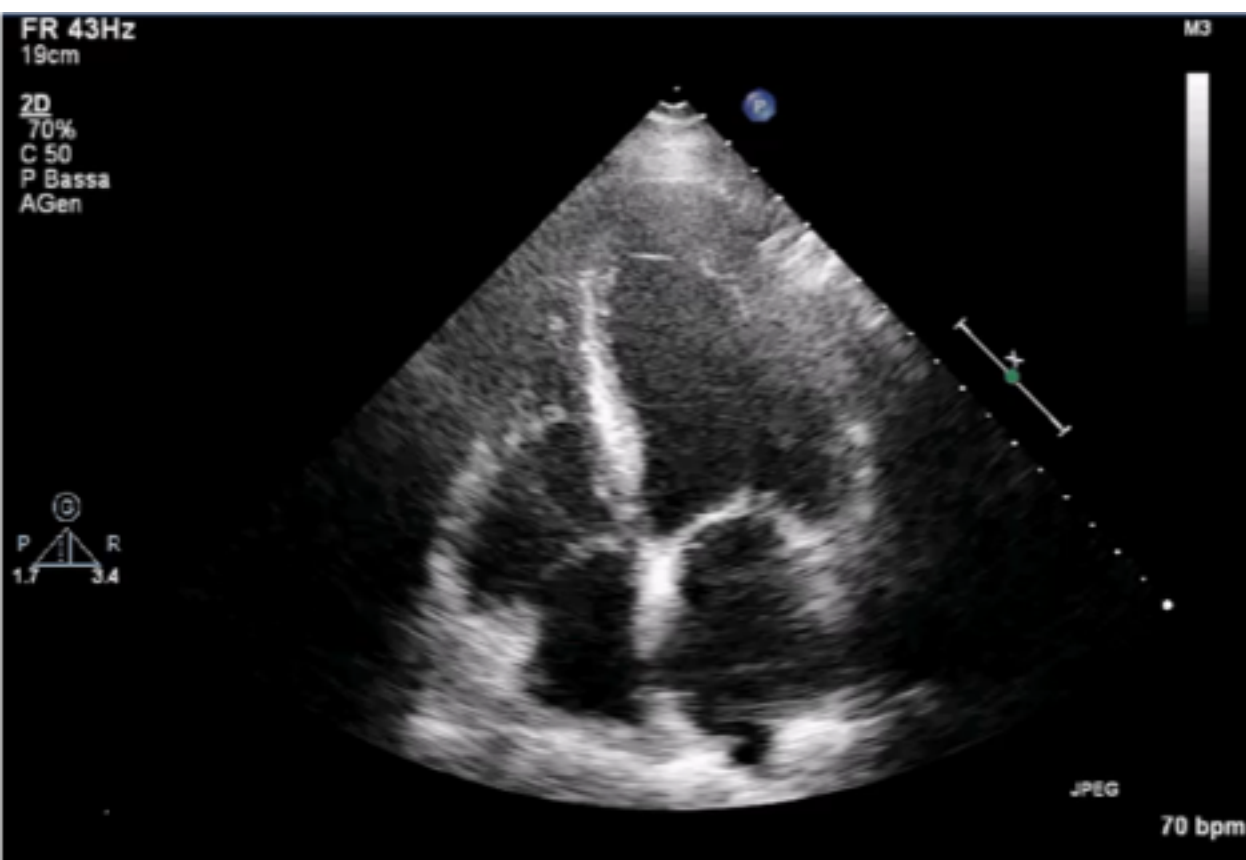
→Dyspnoea (NYHA III) and angina (CCS II)

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TT ECHO: LVEF 65%, severe aortic stenosis




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Euroscore I-Log

Patient-related factors				Cardiac-related factors			
Age (years)	75		0	Unstable angina ⁶	No ▾		0
Gender	Female ▾		.3304052	LV function	Good ▾		0
Chronic pulmonary disease ¹	No ▾		0	Recent MI ⁷	No ▾		0
Extracardiac arteriopathy ²	No ▾		0	Pulmonary hypertension ⁸	No ▾		0
Neurological dysfunction ³	No ▾		0	Operation-related factors			
Previous Cardiac Surgery	No ▾		0	Emergency ⁹	No ▾		0
Creatinine > 200 µmol/ L	No ▾		0	Other than isolated CABG	Yes ▾		.5420364
Active endocarditis ⁴	No ▾		0	Surgery on thoracic aorta	No ▾		0
Critical preoperative state ⁵	No ▾		0	Post infarct septal rupture	No ▾		0
Logistic ▾ EuroSCORE <div style="border: 2px solid red; border-radius: 50%; padding: 5px; display: inline-block;">5.82 %</div>							
 Note: Logistic is now default calculator <button>Calculate</button> <input type="button" value="Clear"/>							

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Euroscore I-Standard

Patient-related factors				Cardiac-related factors			
Age (years)	75	4		Unstable angina ⁶	No	0	
Gender	Female	1		LV function	Good	0	
Chronic pulmonary disease ¹	No	0		Recent MI ⁷	No	0	
Extracardiac arteriopathy ²	No	0		Pulmonary hypertension ⁸	No	0	
Neurological dysfunction ³	No	0		Operation-related factors			
Previous Cardiac Surgery	No	0		Emergency ⁹	No	0	
Creatinine > 200 µmol/ L	No	0		Other than isolated CABG	Yes	2	
Active endocarditis ⁴	No	0		Surgery on thoracic aorta	No	0	
Critical preoperative state ⁵	No	0		Post infarct septal rupture	No	0	
Standard EuroSCORE 7							
Note: Logistic is now default calculator <button>Calculate</button> Clear							



STS Adult Cardiac Surgery Risk Score

RISK SCORES	
About the STS Risk Calculator	
Procedure: AV Replacement + CAB	
Risk of Mortality:	4.483%
Morbidity or Mortality:	23.081%
Long Length of Stay:	9.483%
Short Length of Stay:	21.911%
Permanent Stroke:	3.083%
Prolonged Ventilation:	16.038%
DSW Infection:	0.32%
Renal Failure:	5.821%
Reoperation:	9.004%

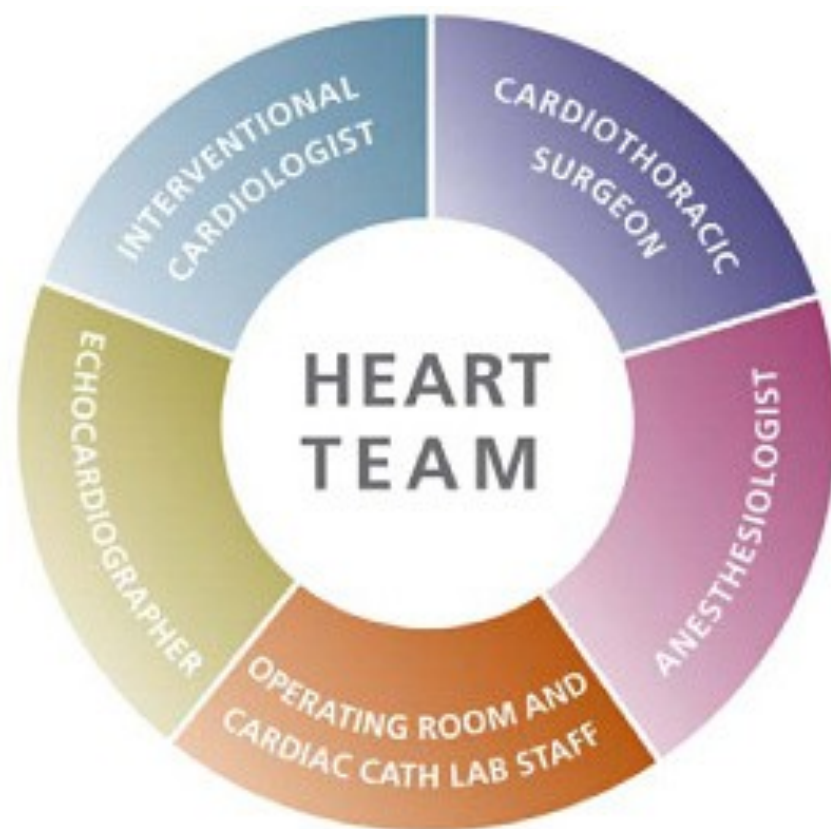
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Work-up pre-TAVI:

→coronary angiography





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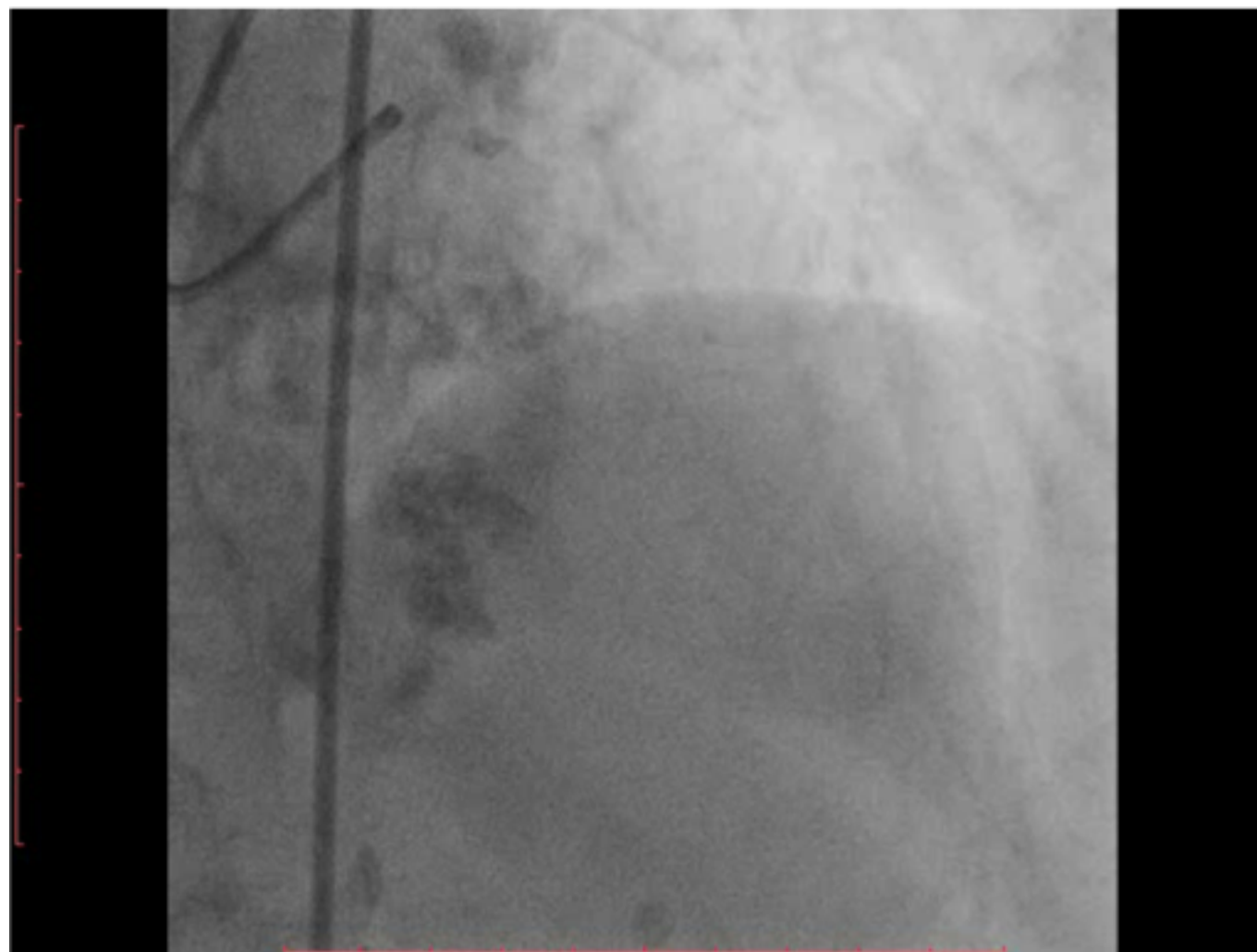
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What to do?

1. Surgery (AVR + CABG)
2. PTCA of RCA before TAVI
3. PTCA of 3 vessels before TAVI
4. TAVI + PTCA of RCA at the same time
5. Ischaemia-guided revascularization



What to do?

1. Surgery (AVR + CABG)
2. PTCA of RCA before TAVI
3. PTCA of 3 vessels before TAVI
4. TAVI + PTCA of RCA at the same time
5. Ischaemia-guided revascularization

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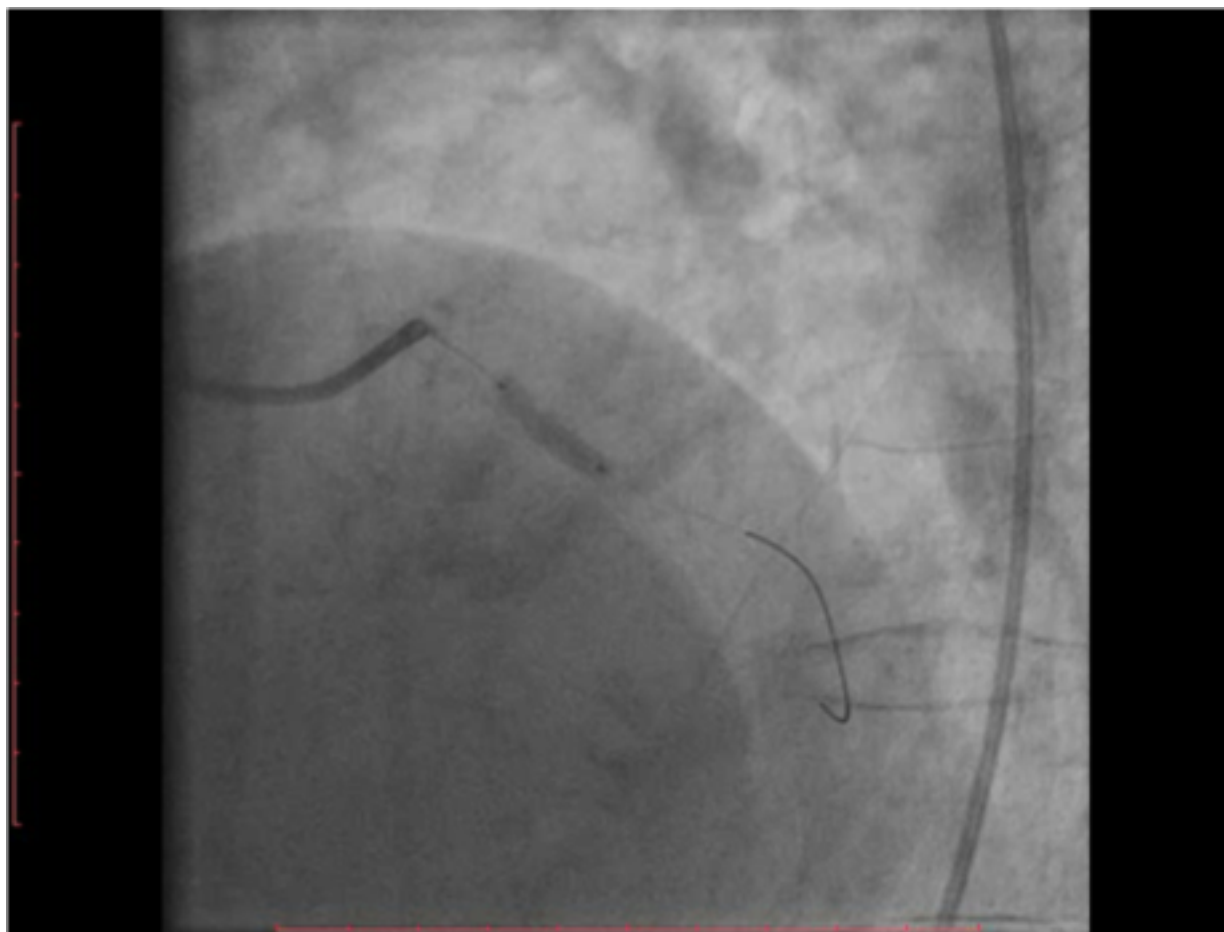
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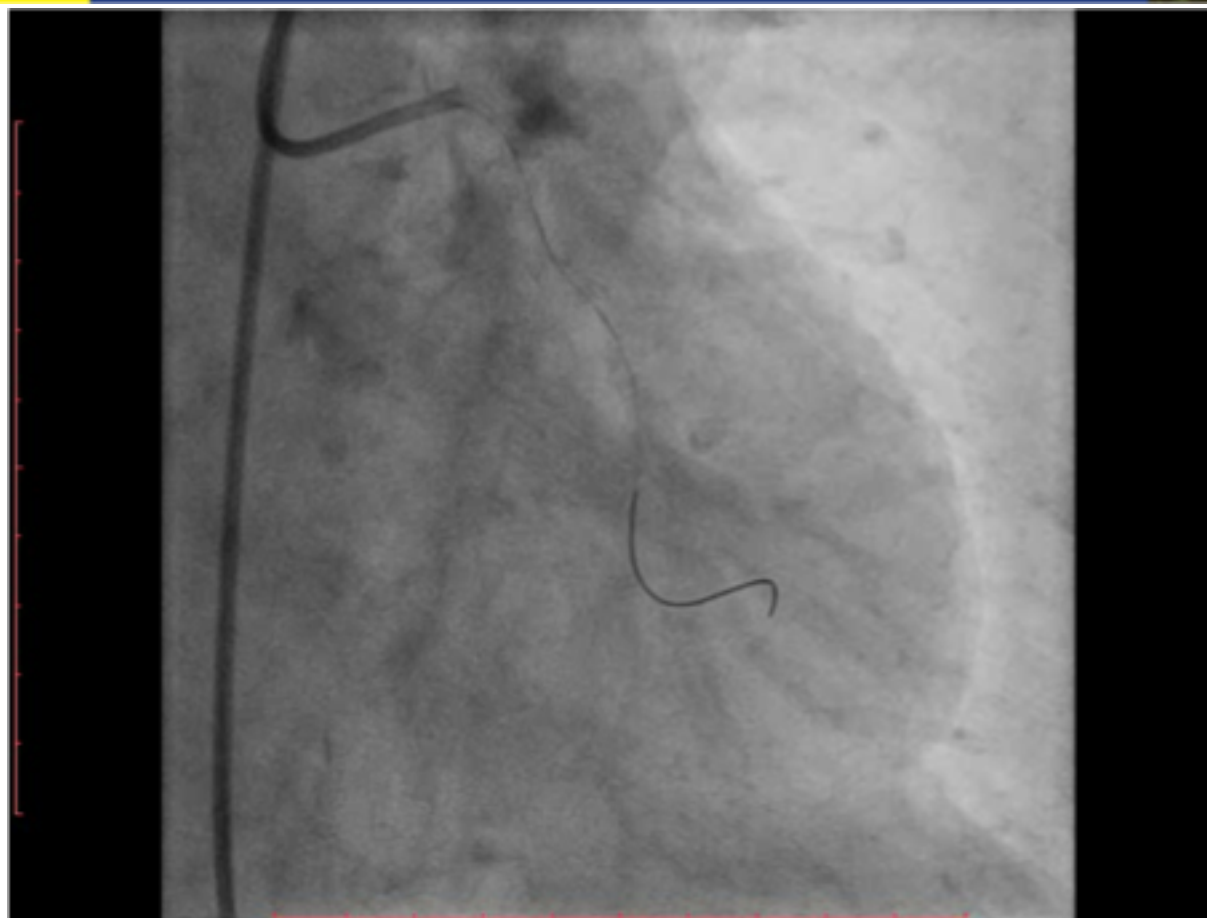
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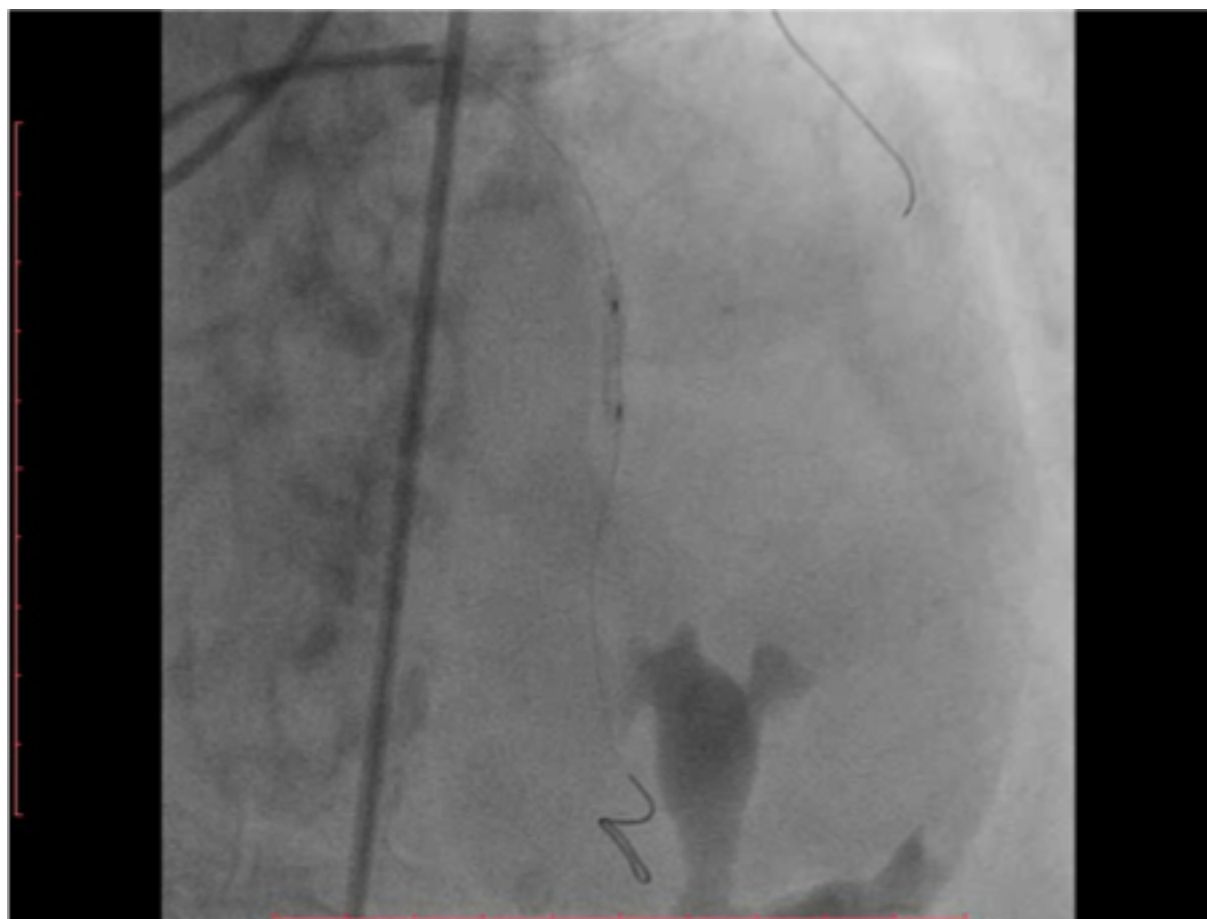
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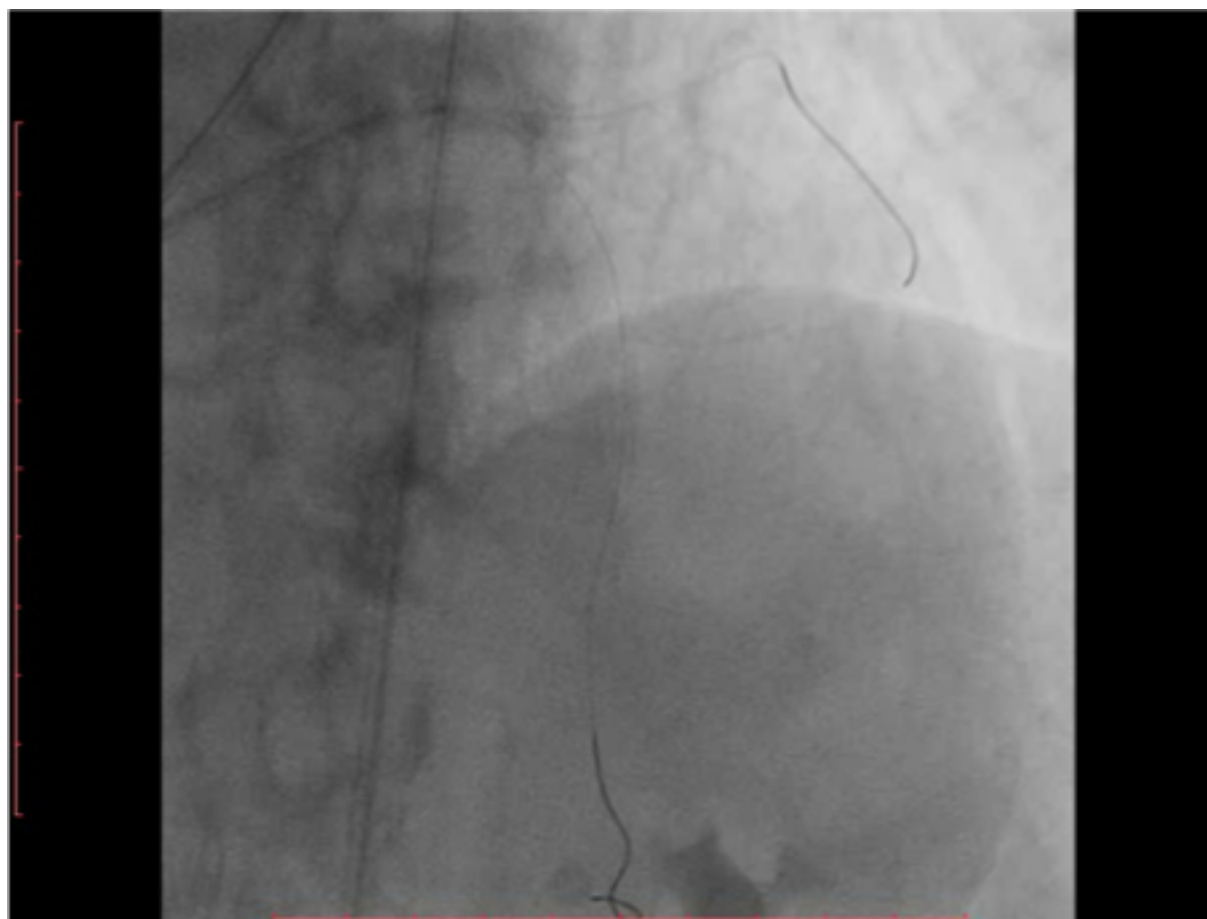
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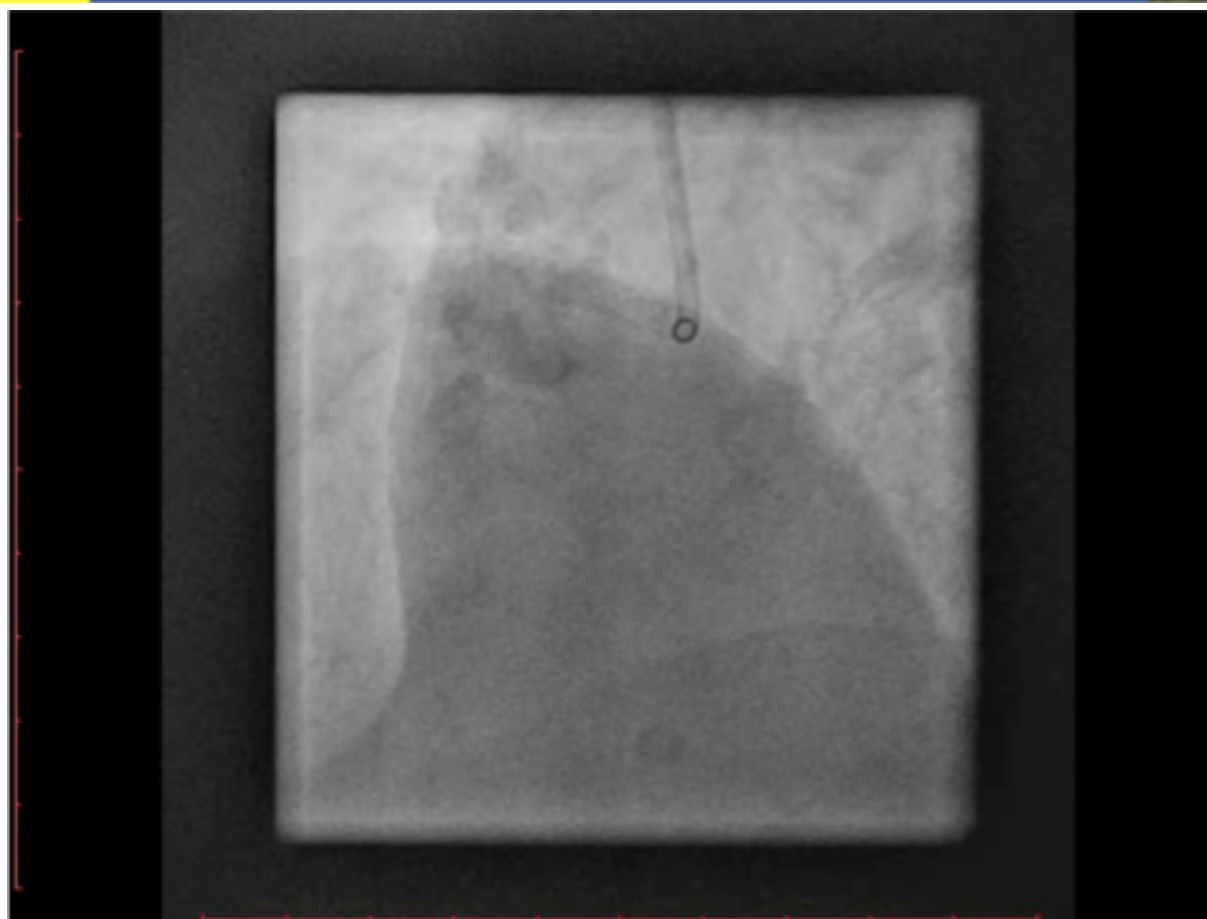
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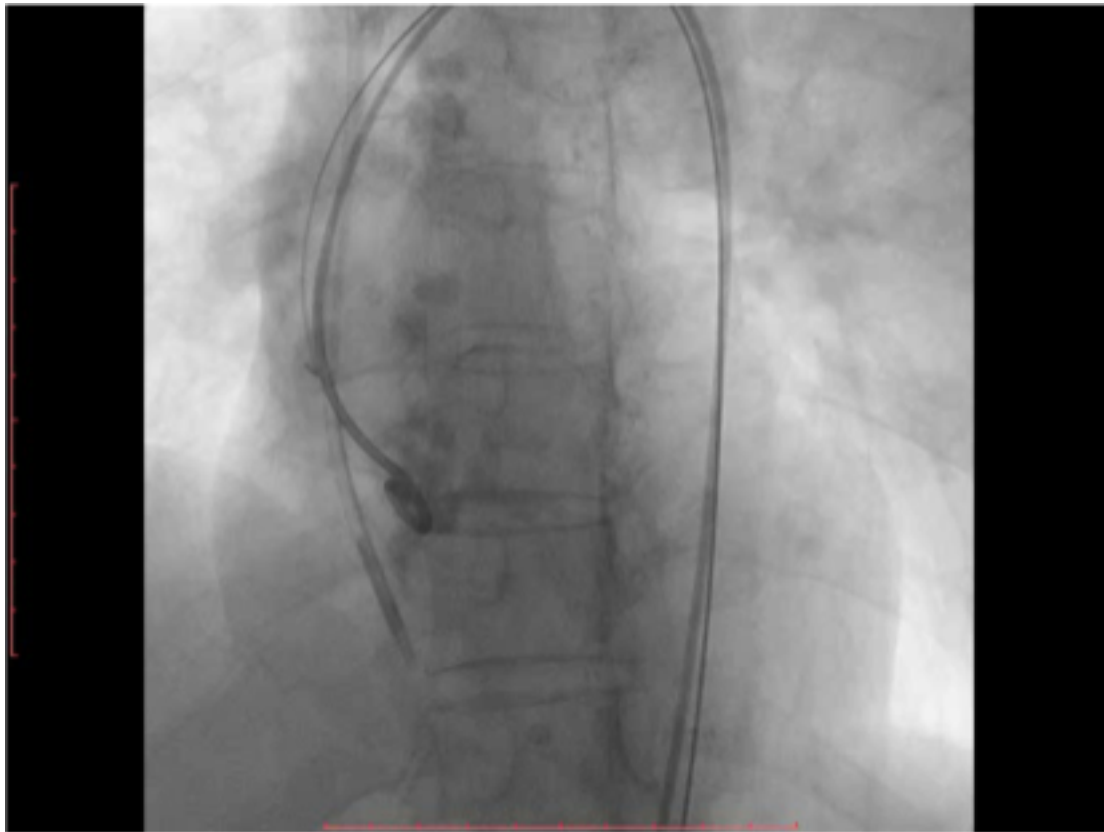


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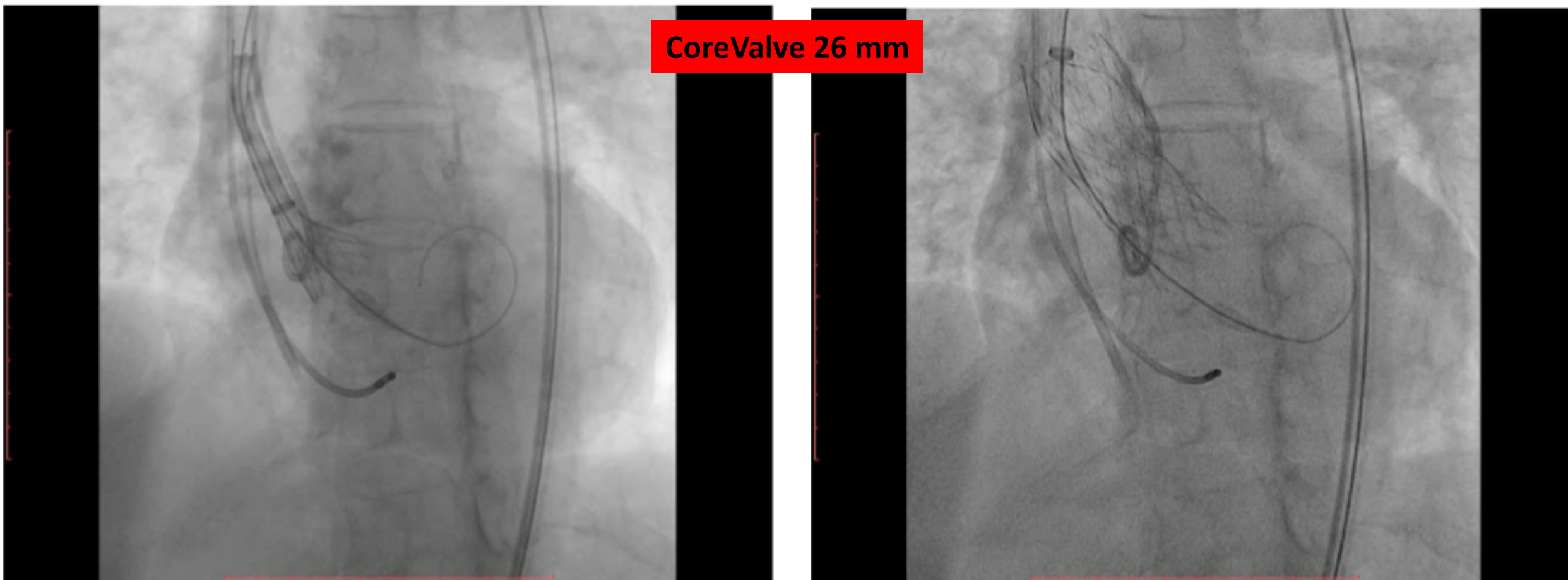


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CoreValve 26 mm



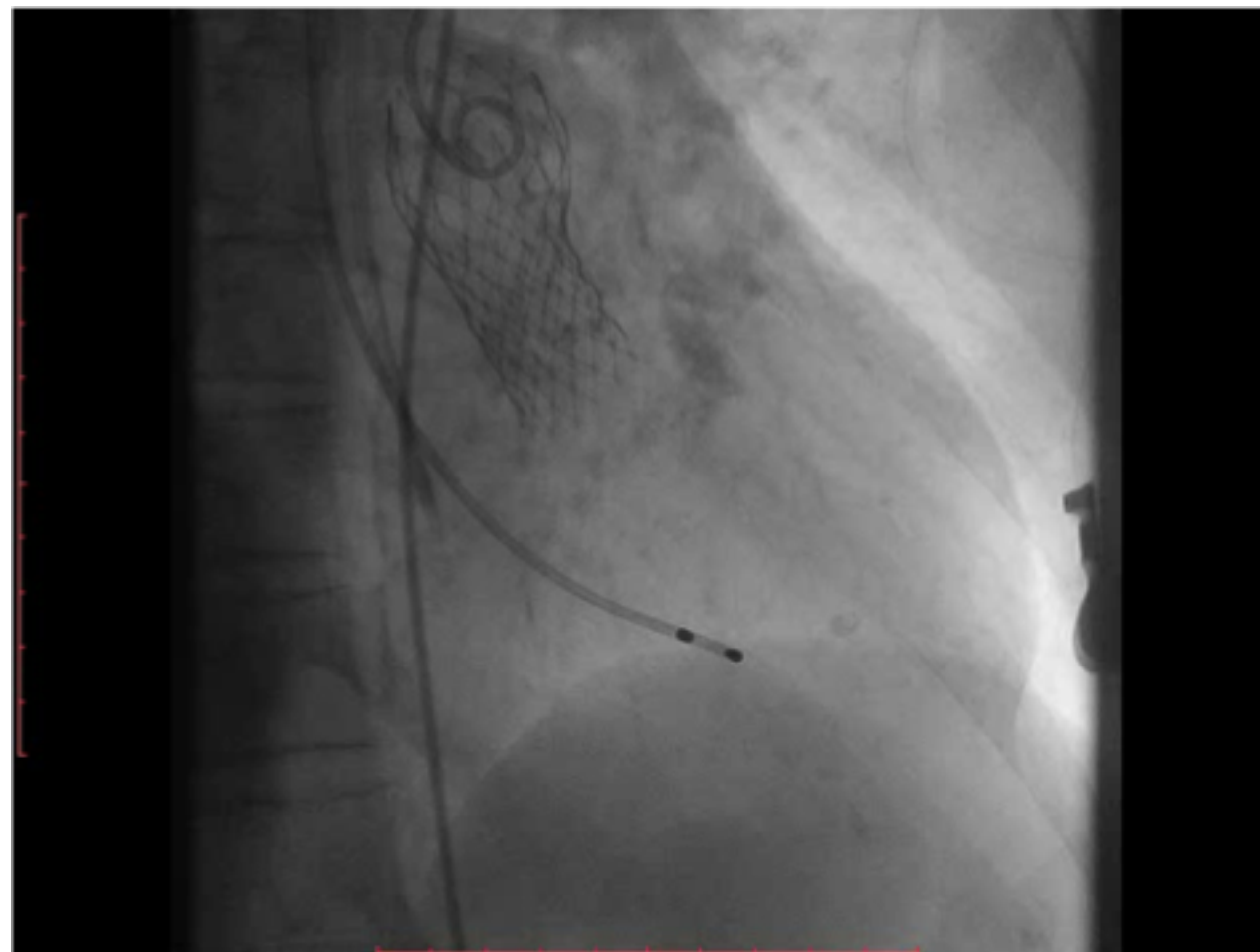
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At discharge:

TT ECHO

LVEF 65%

II degree dyastolic dysfunction

Bioprosthesis with normal function (Grad 10/6 mmHg, Functional area 1,7 cm², DVI 0.66), trivial para-prosthesis leak

Trivial mitral regurgitation

esPAP = 30 mmHg

Medical therapy

DAPT (Aspirin+Clopidogrel), ARB, BB, Statin



8-year follow-up:

- Patient independent in activities of daily life, NYHA class I
- Bioprosthesis with normal function (Grad 16/9 mmHg), trivial paraprosthetic leak
- 2 re-hospitalization:
 - 03/2013 radiodermatitis (previous RT)
 - 05/2017 implant of PM for III degree AVB. OAC + Amiodarone for paroxysmal atrial fibrillation.

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The heart's memory eliminates the bad and magnifies
the good; and thanks to this artifice we manage to
endure the burdens of the past.

—Gabriel Garcí'a Ma'rquez