

TAVI –

„Valve-in-degenerated-valve“

Re-do CoreValve

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Medical History

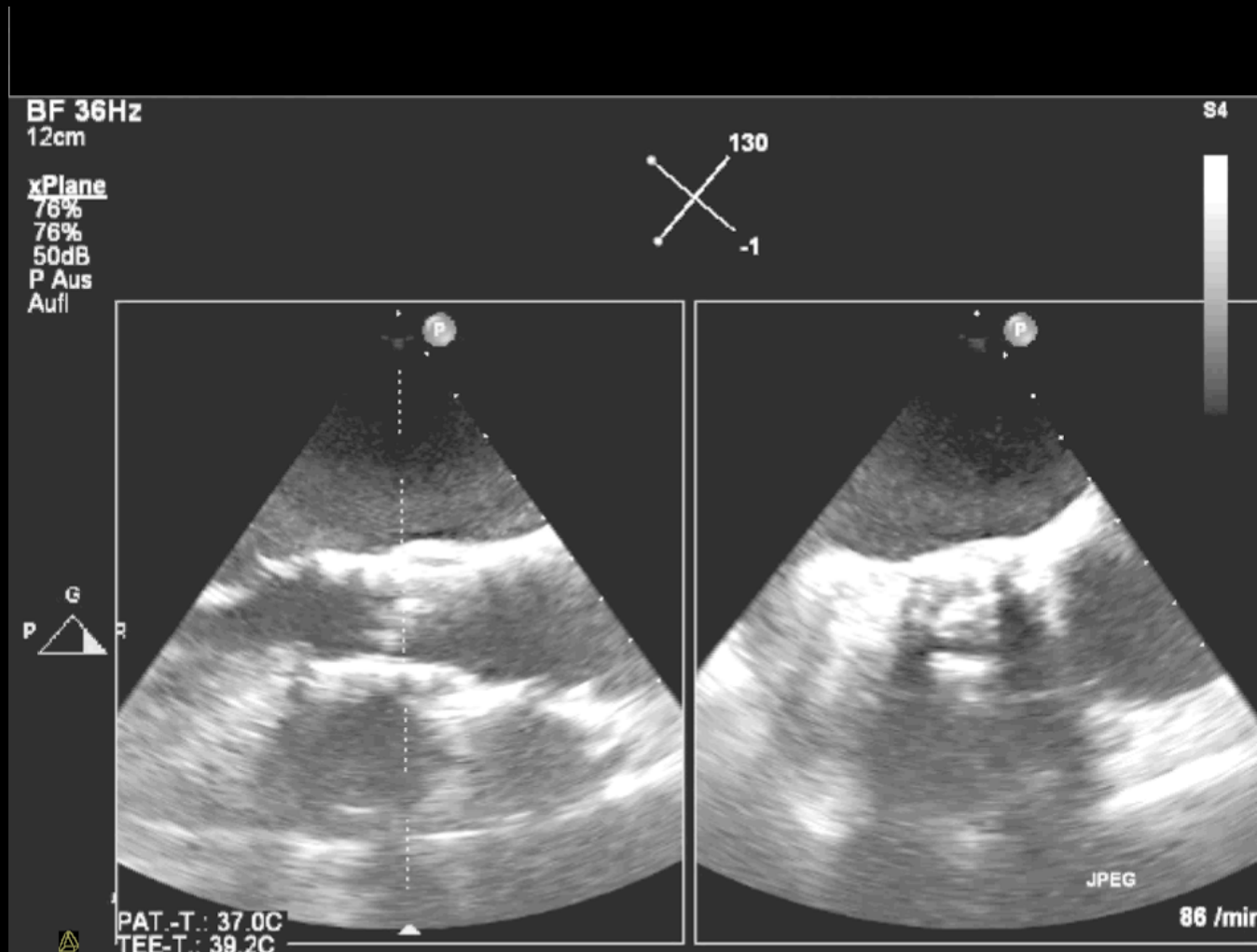
- Patient A.M.O., male, 91 years
- Dyspnea NYHA III-IV
- 08/31/2005: CoreValve 26mm prosthesis via left common femoral artery with surgical cutdown
- Severe stenosis of degenerated CoreValve prosthesis 1st generation (AVA 0.5 cm²)

Comorbidities

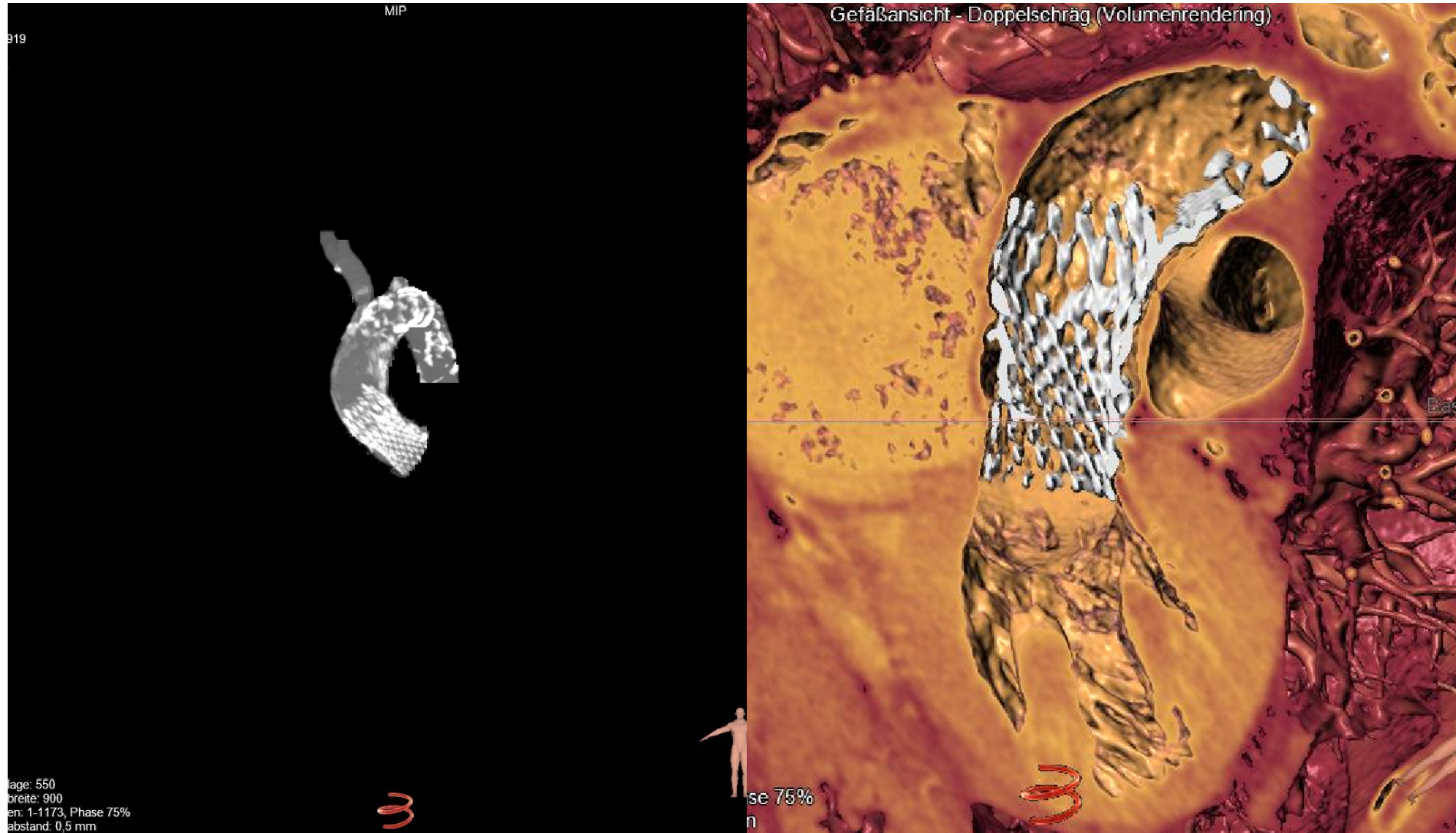
- Porcelain aorta
- Peripheral arterial disease Stadium Iia
- COPD
- Moderate LV function 40%
- Pulmonary hypertension (PAP sys. 70 mmHg)
- Insignificant CAD

- Logistic EuroSCORE **64.97%**
- STS Score **27.0%**

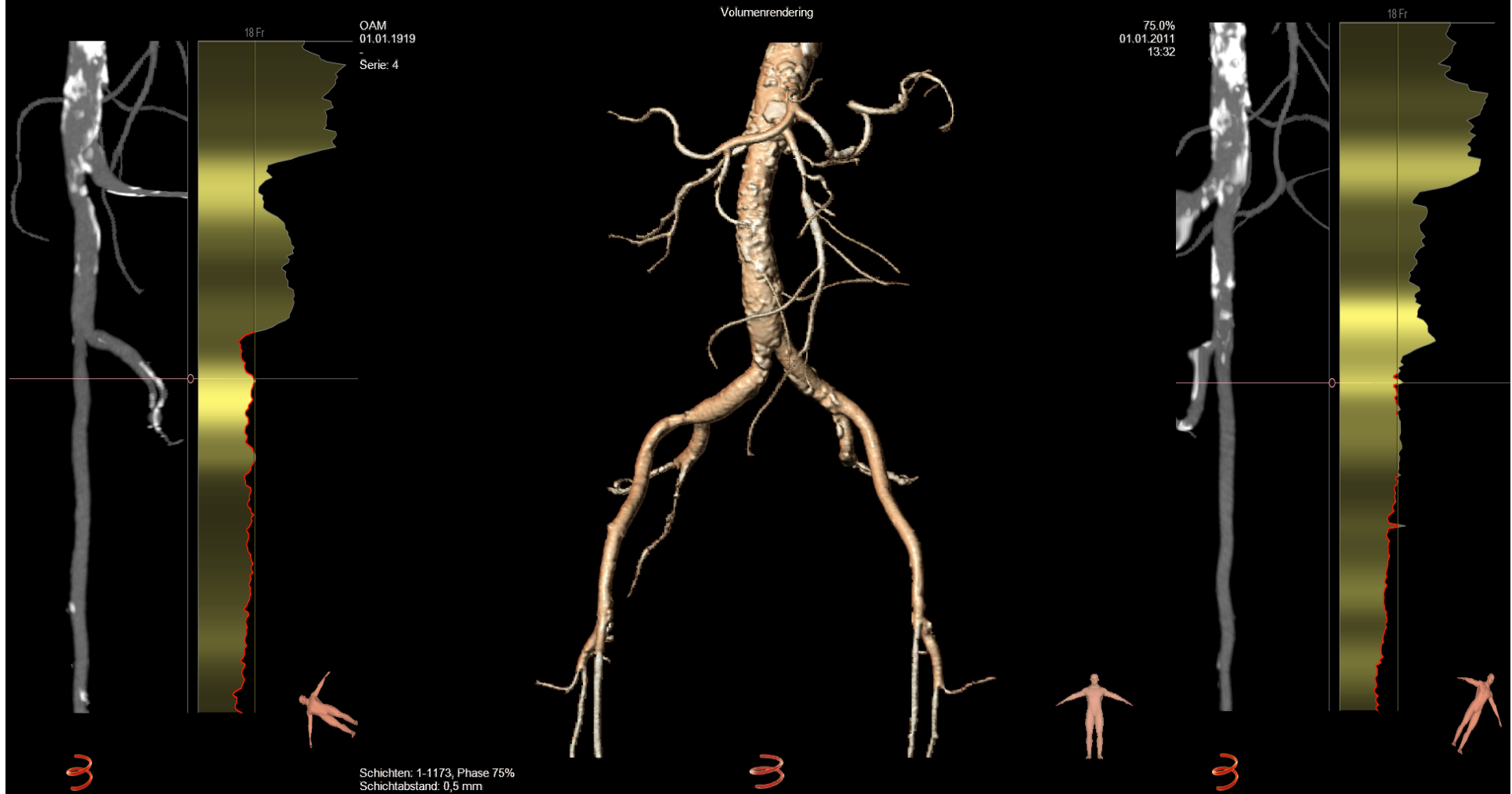
TEE



CoreValve 26mm prosthesis



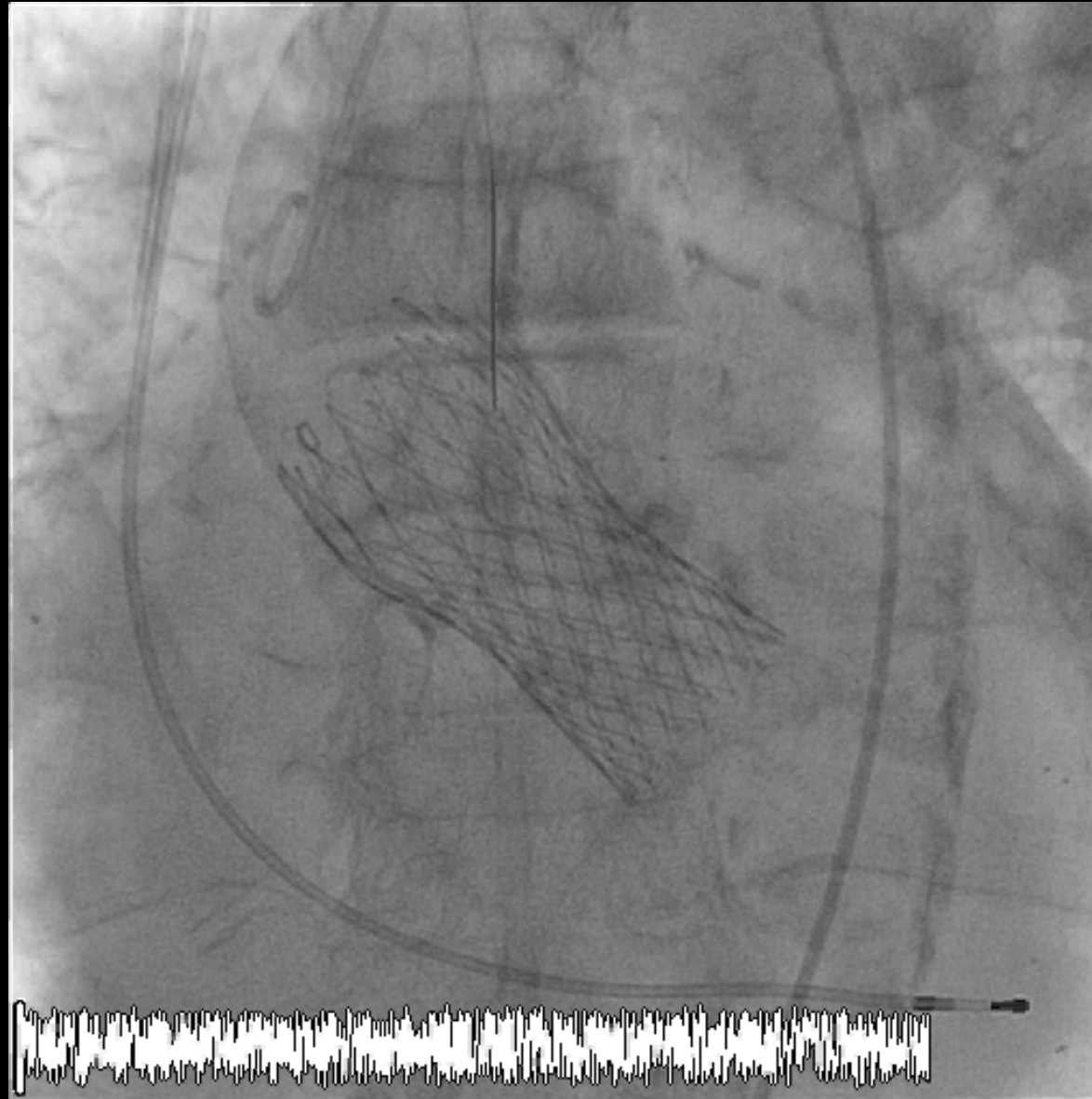
Transfemoral Access



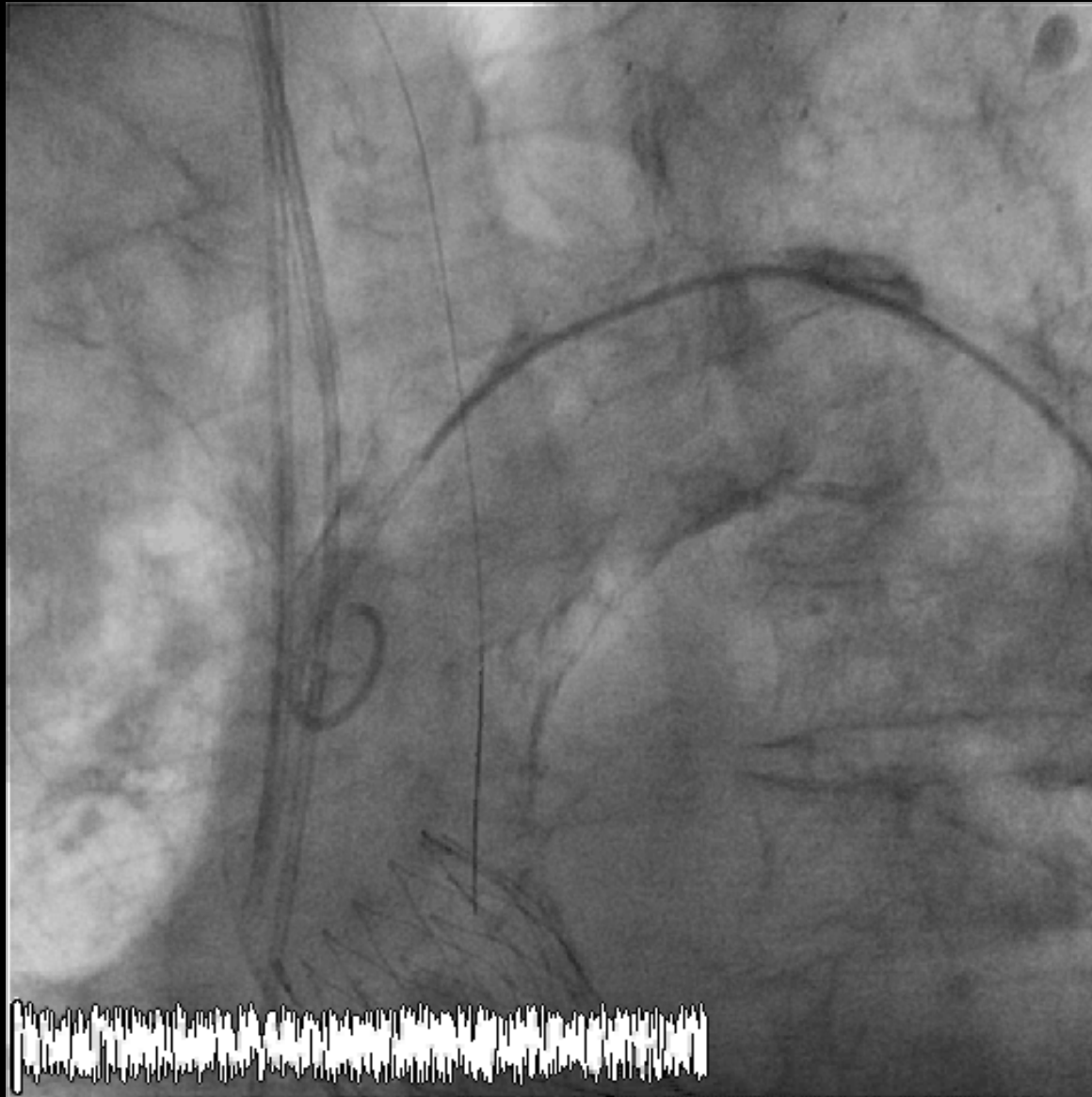
Right **AIC: 5mm** AFC: 6mm

Left AIC: 6mm; AFC: 6mm

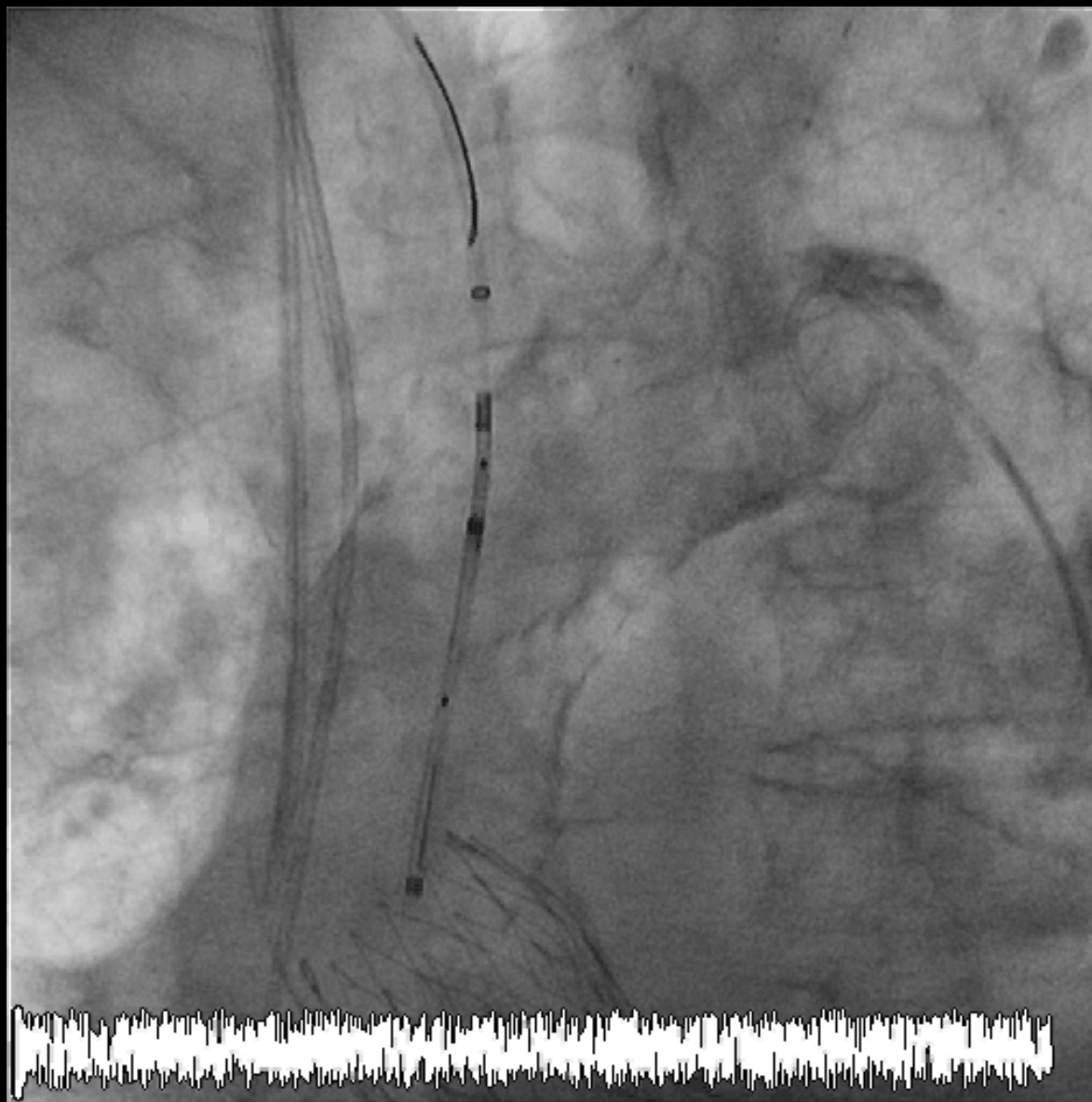
Aortogram of stenosed Core Valve 26mm



Aortic Arch with Narrowing of Truncus



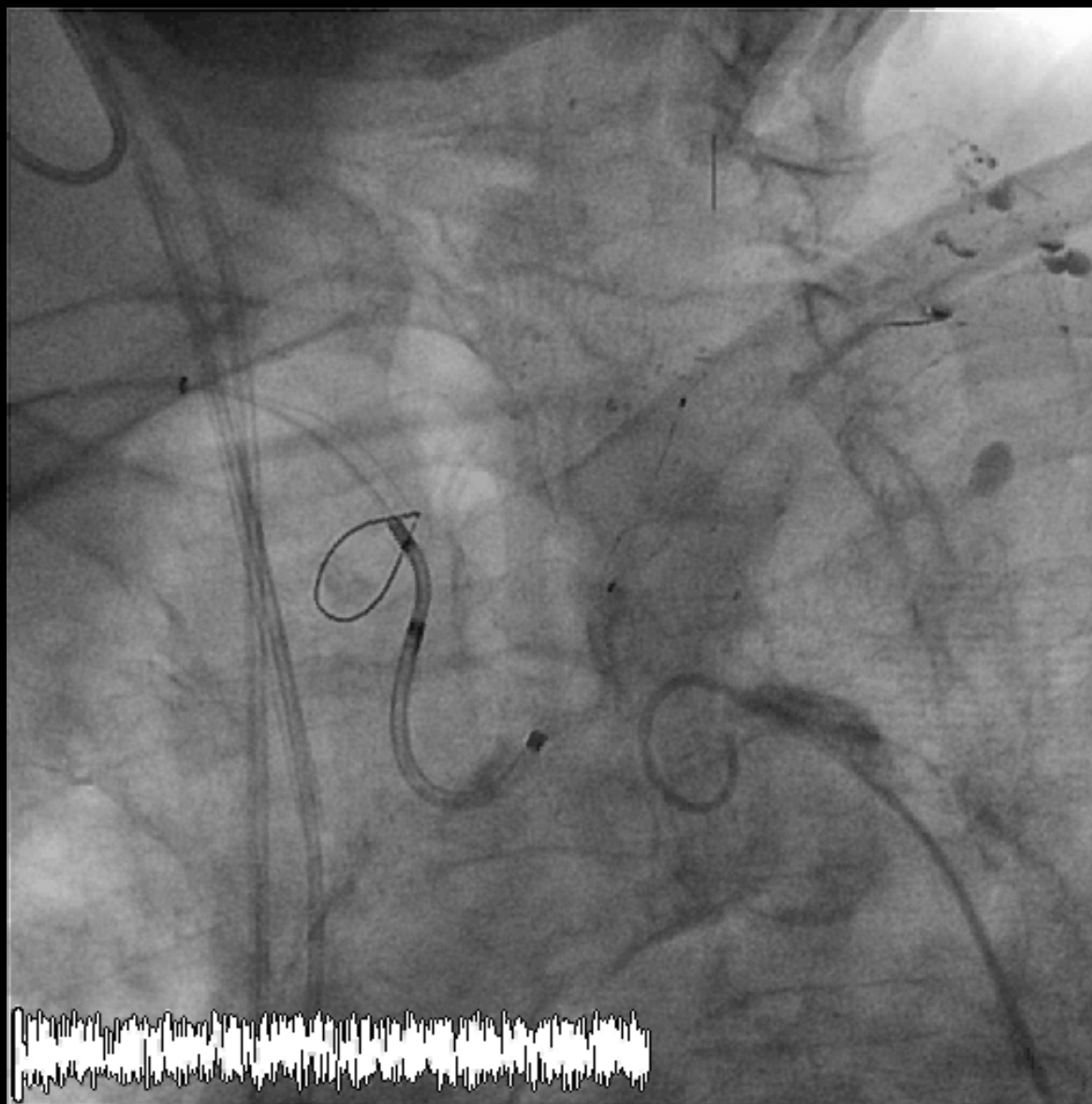
Claret Deployment proximal Filter



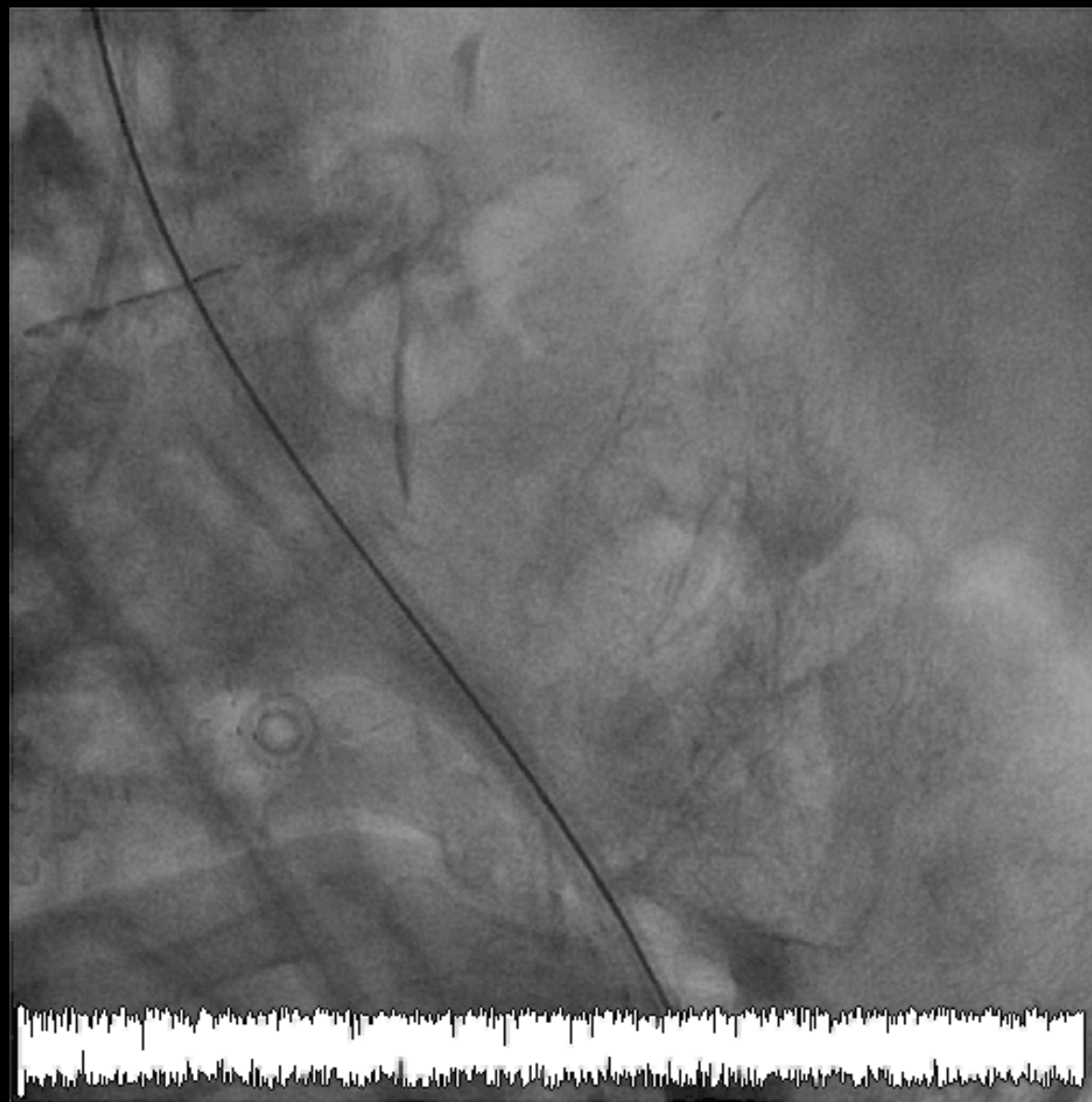
Claret second Filter deployed (left Carotid)



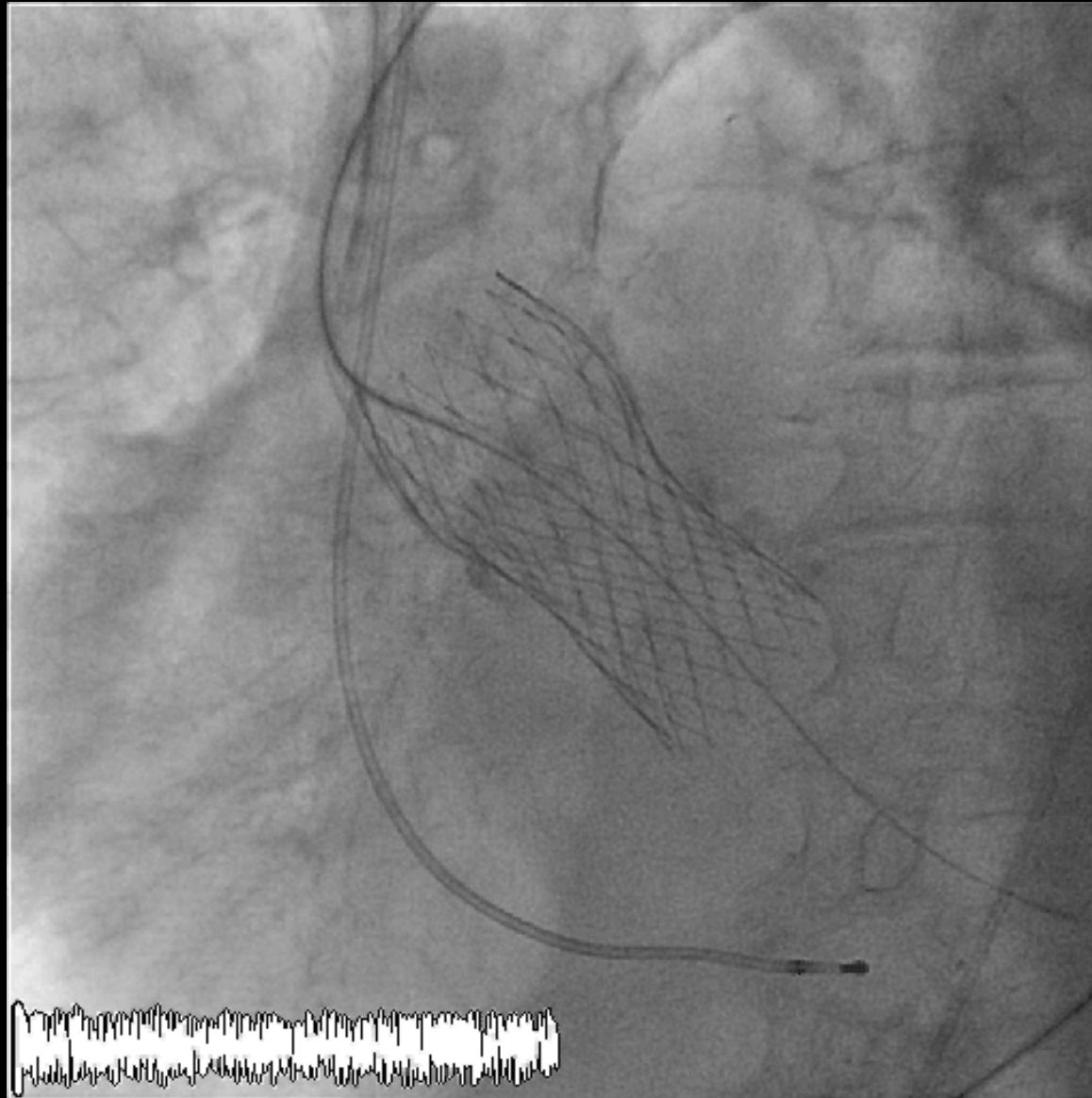
Claret second Filter deployed (left Carotid) Position Control



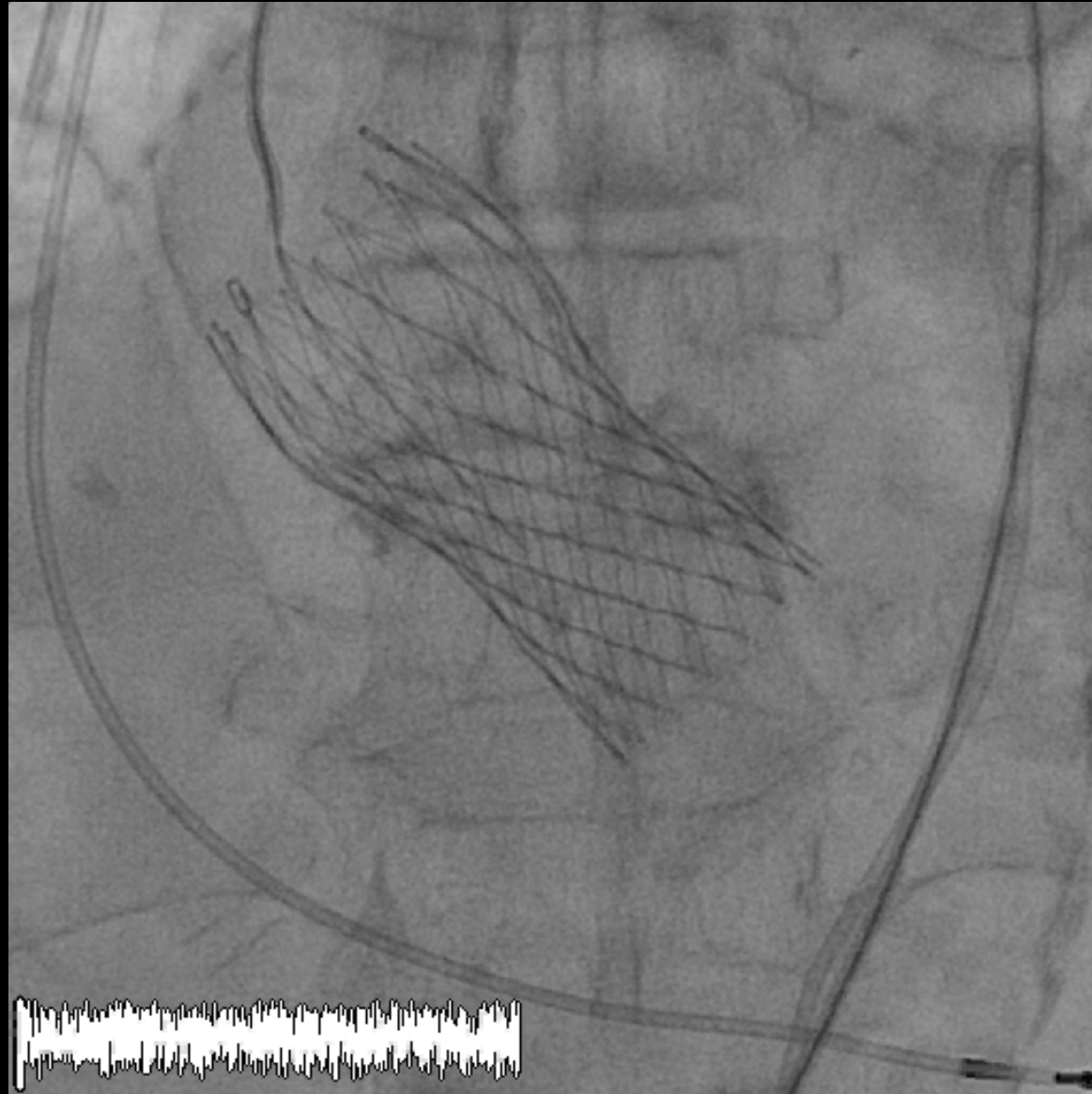
Inflation of "Onset" Sheath in left femoral Artery 18 French



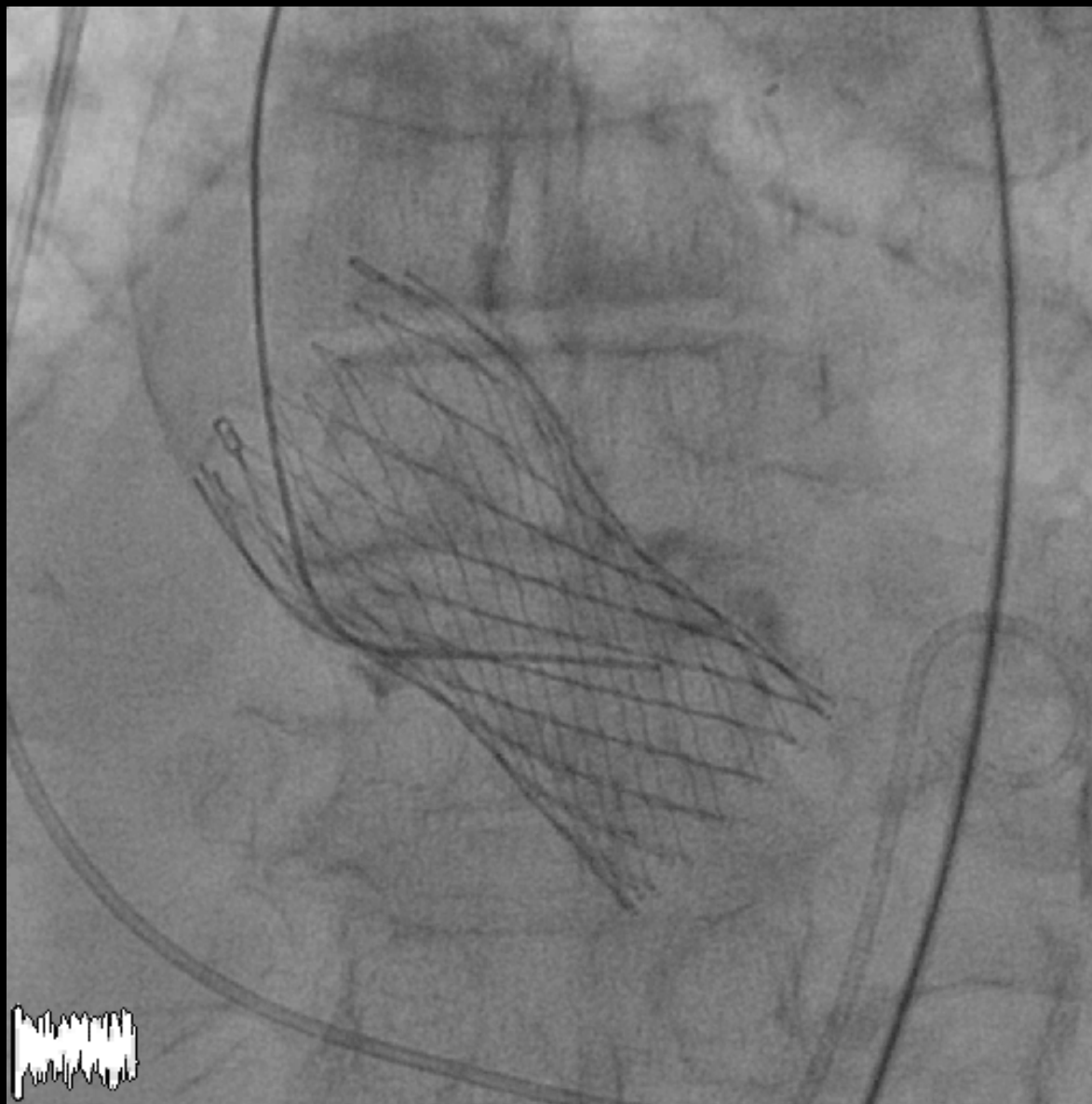
1st Attempt to cross the Valve (through struts)



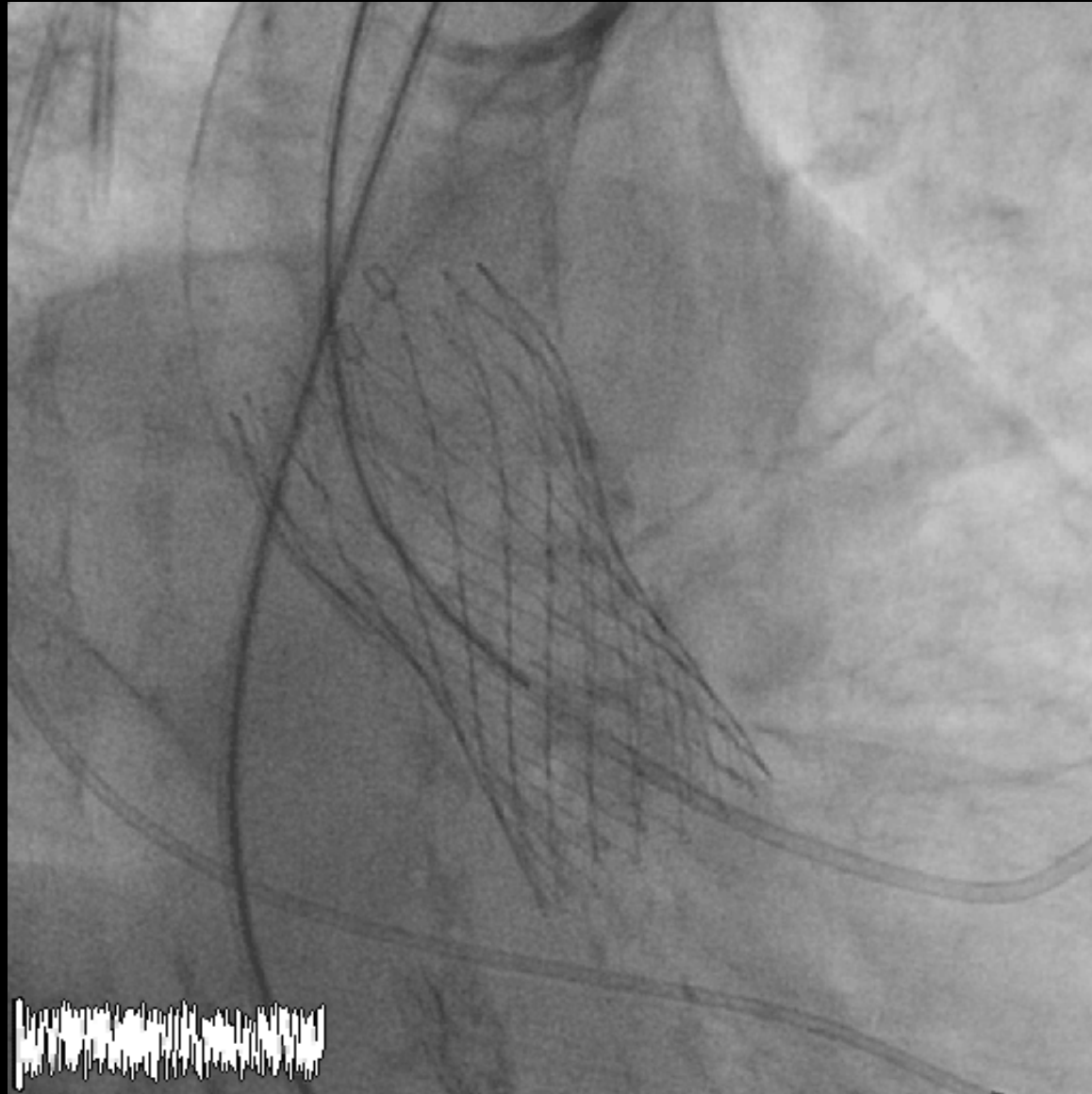
Attempt to cross with Terumo Wire



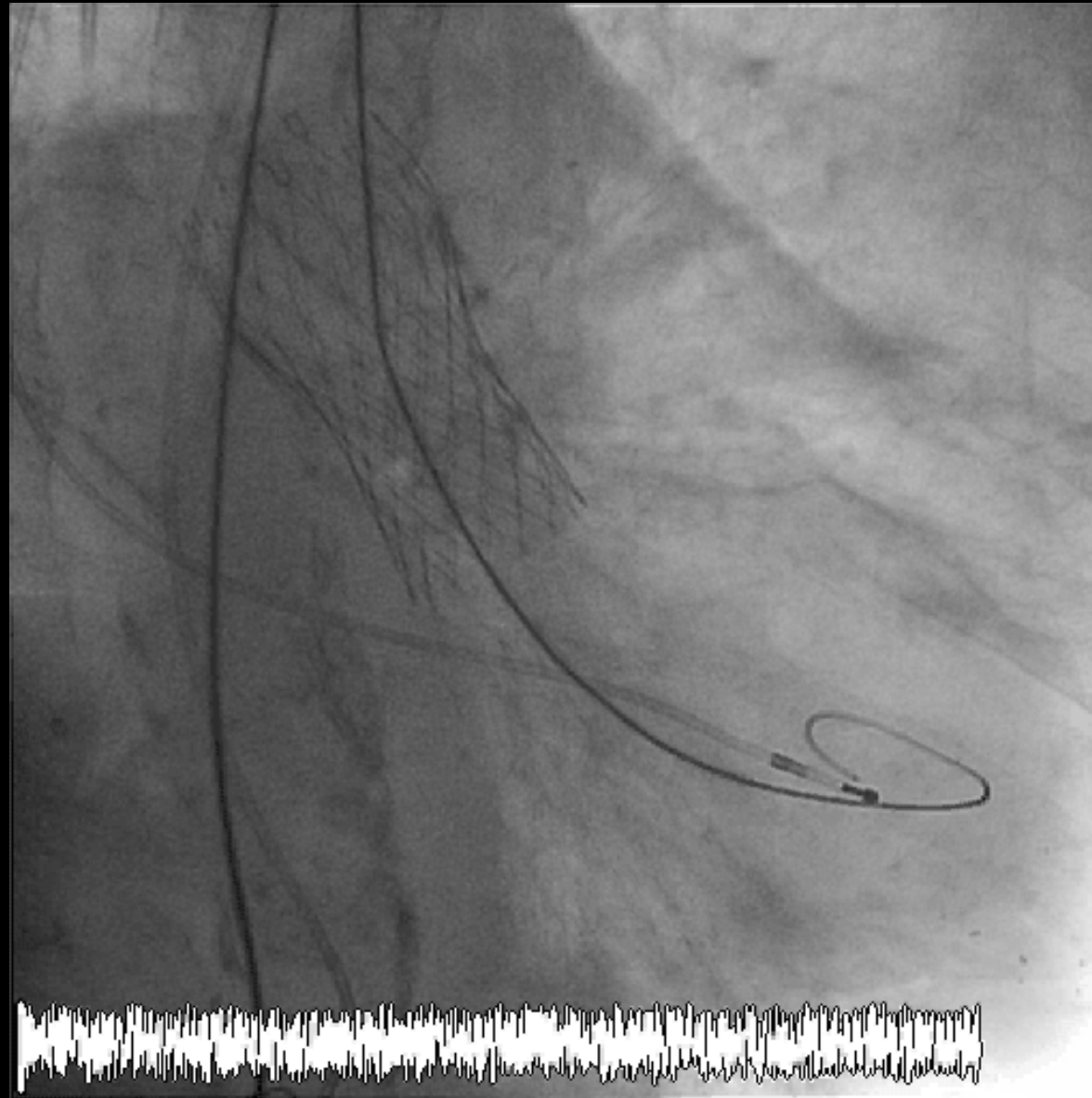
Final attempt with 35 guide wire tip (hard end)



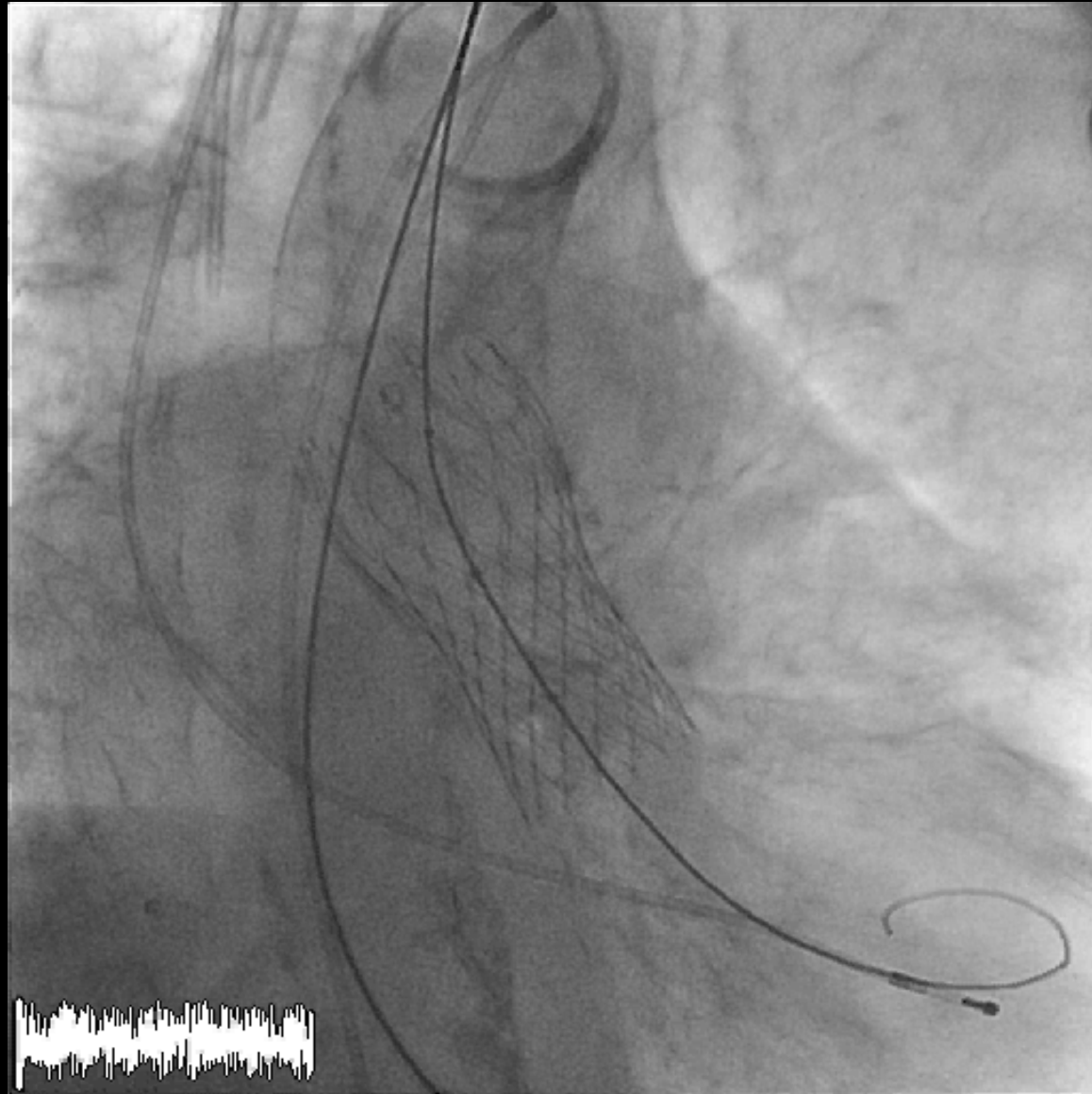
Crossing with JR and Guide



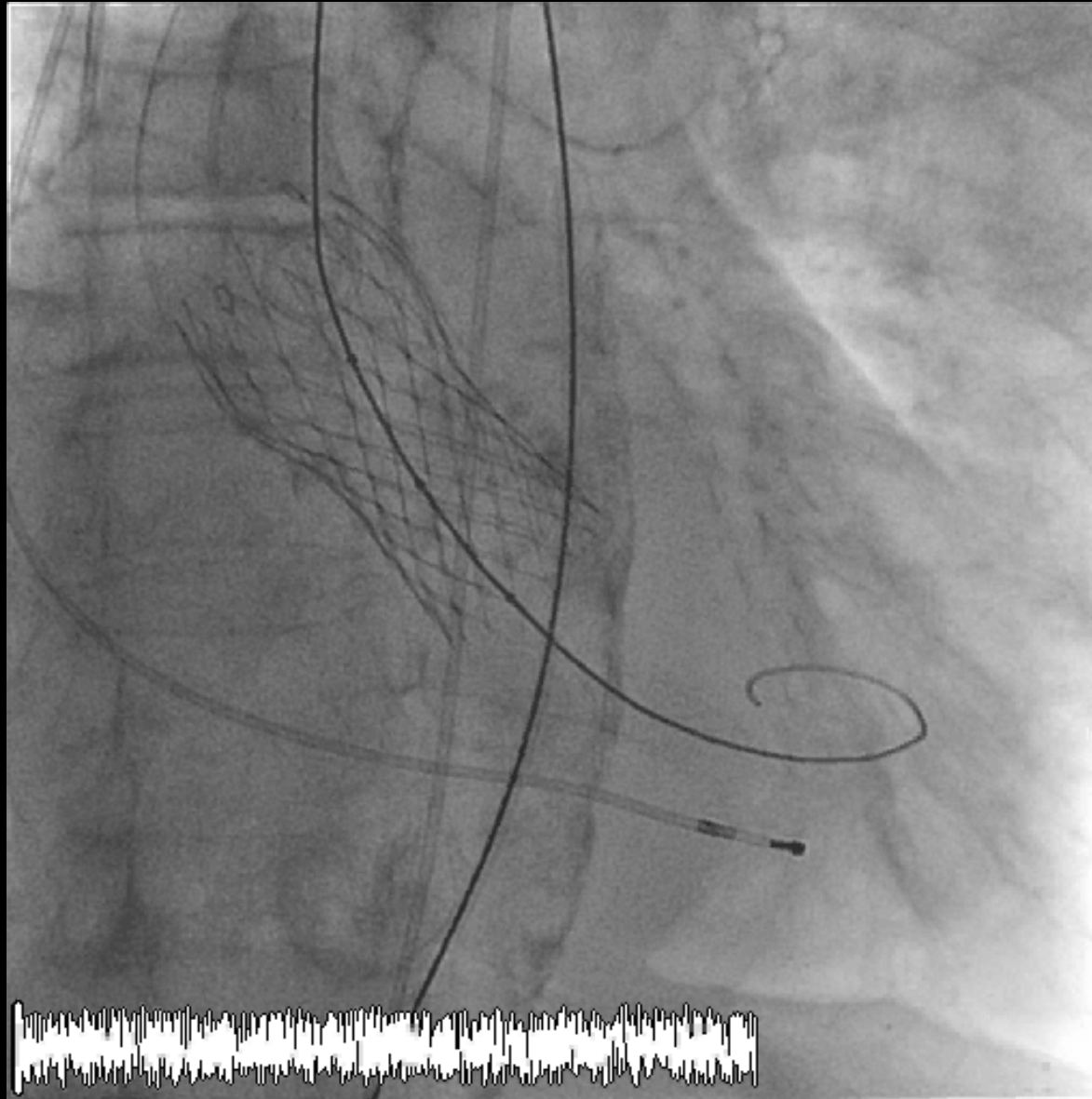
Super Stiff in LV



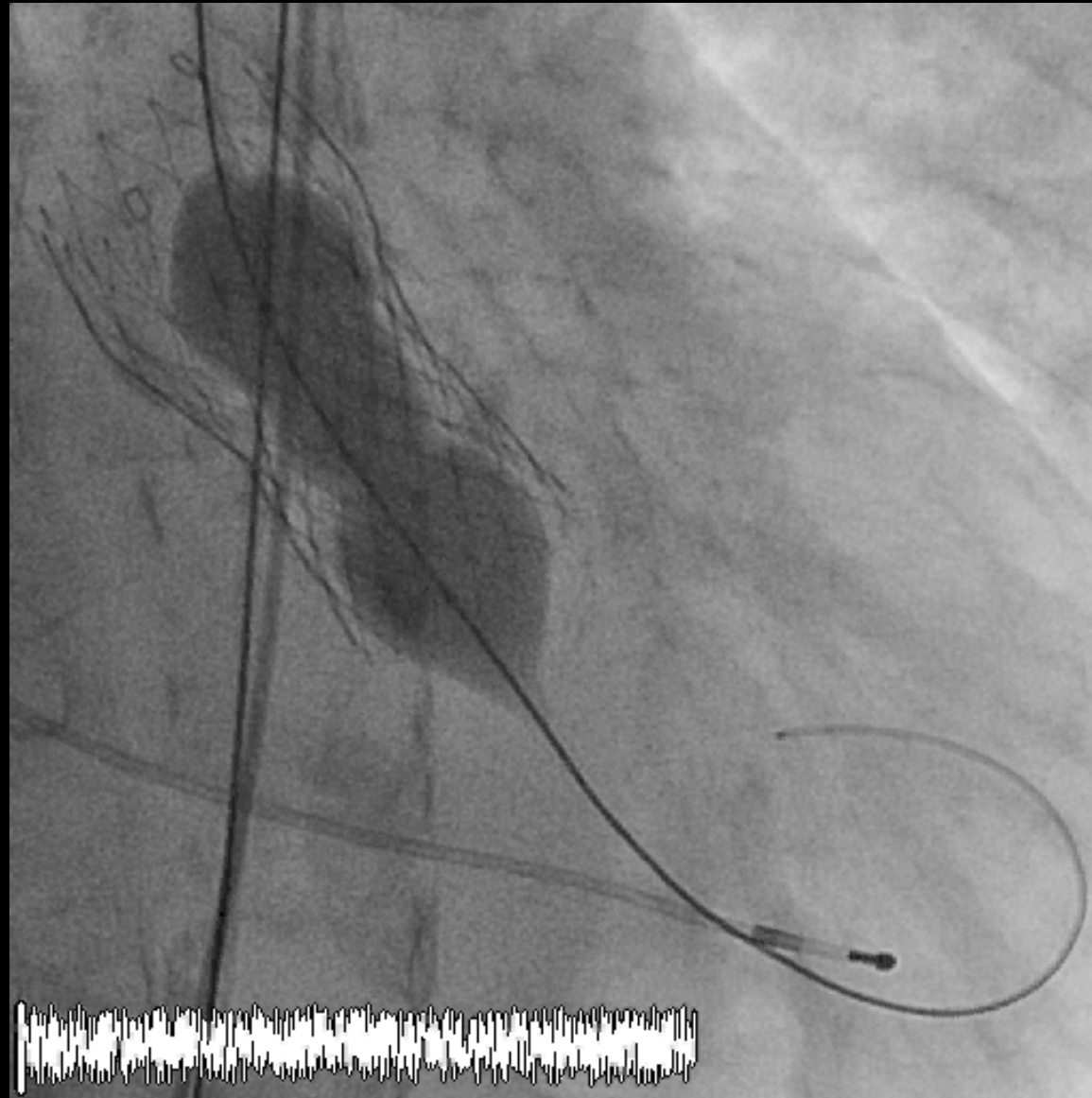
1st attempt with Nucleus Balloon



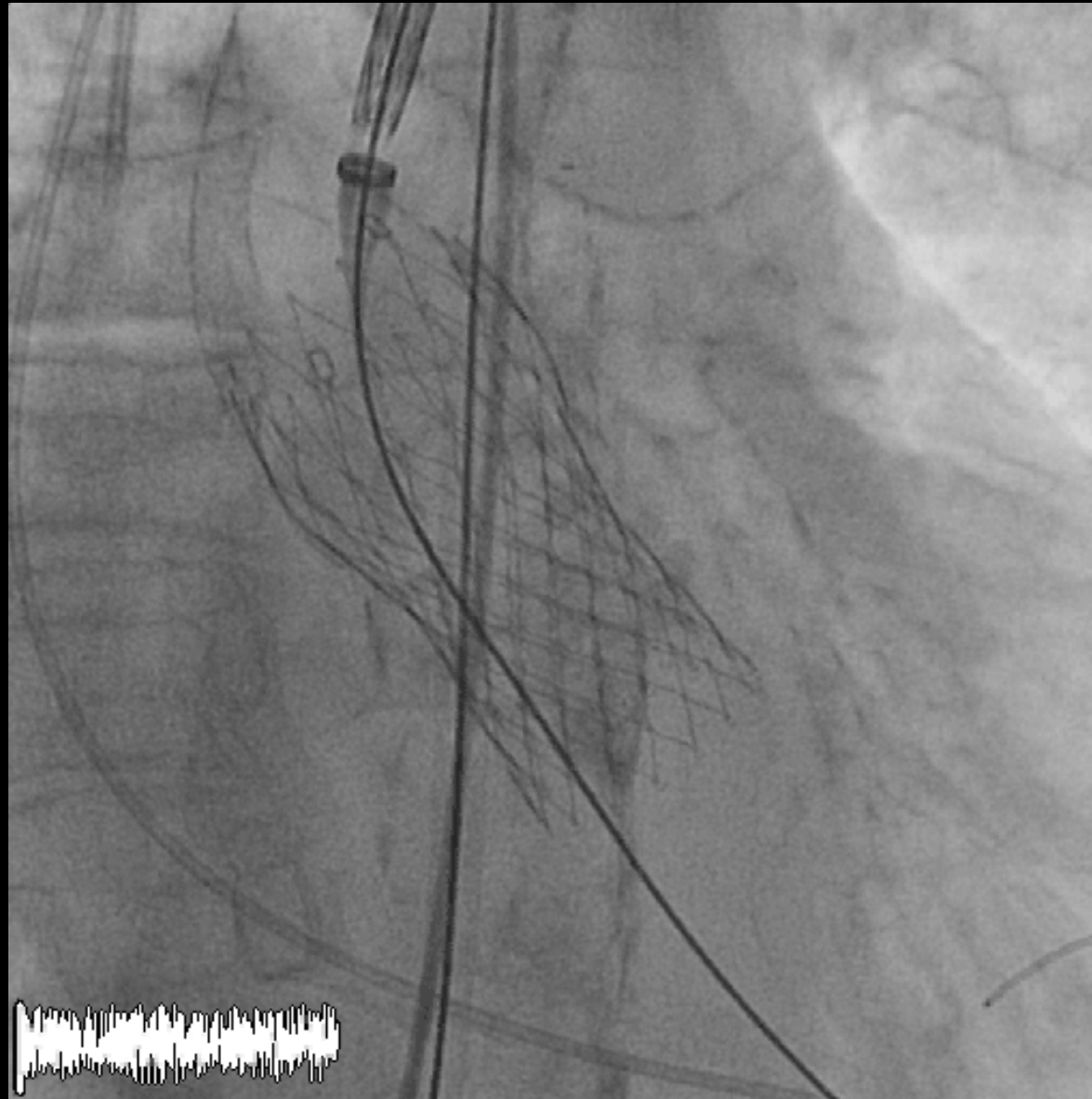
Rupture of Nucleus Balloon



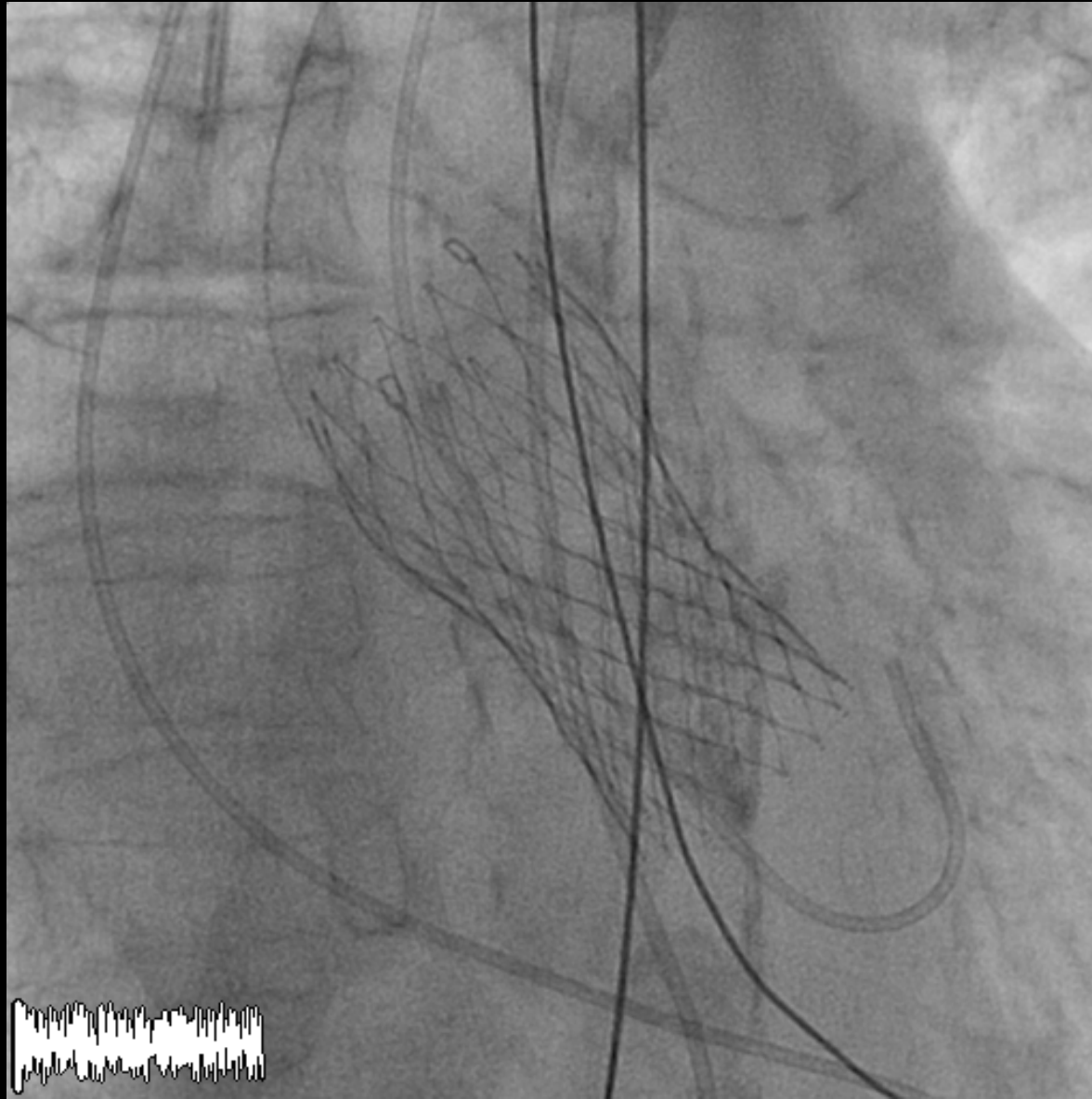
Second Balloon Rupture



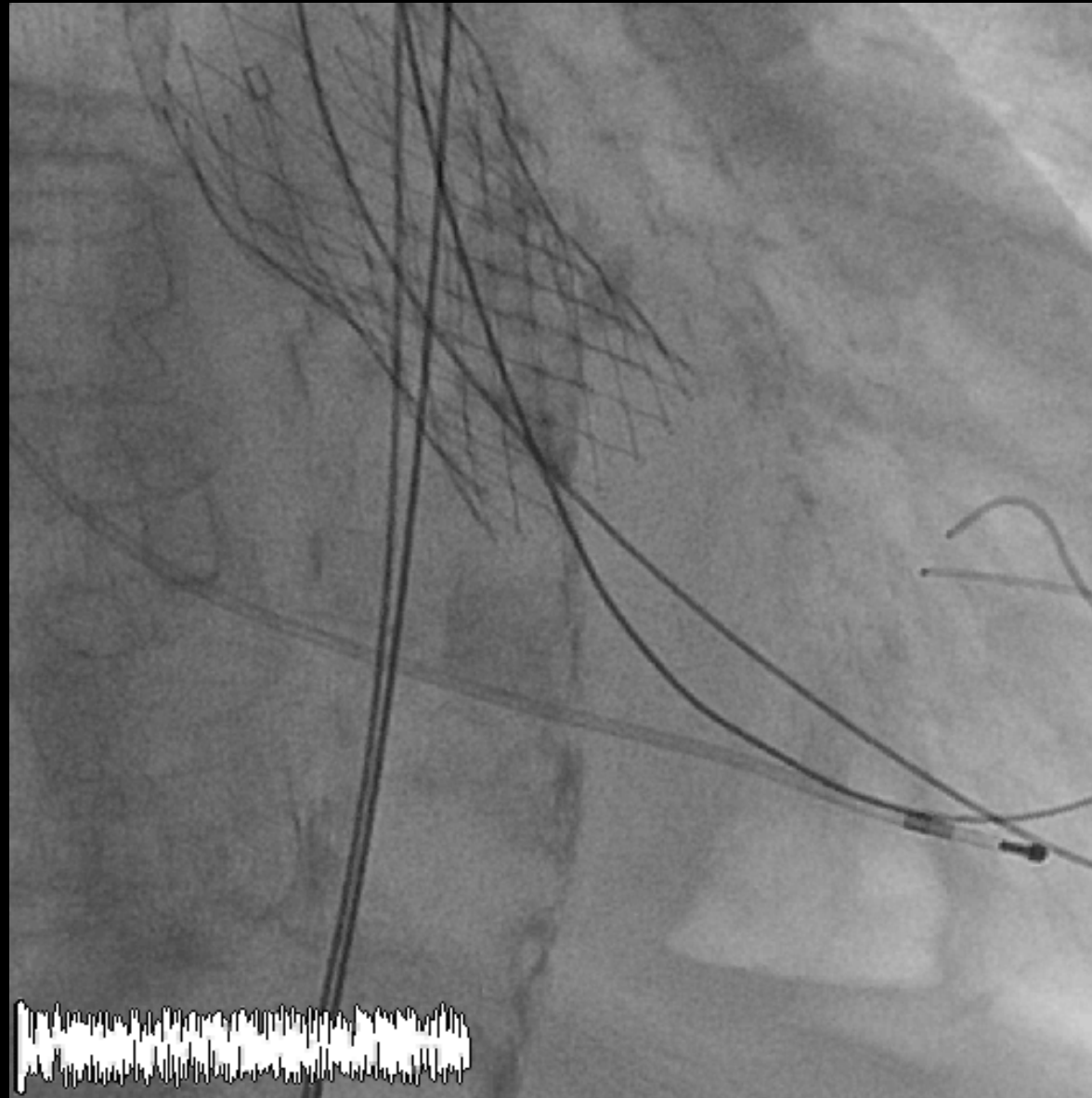
2nd Core Valve does not cross. “Stalles”
in the Crown of previous CV Prosthesis



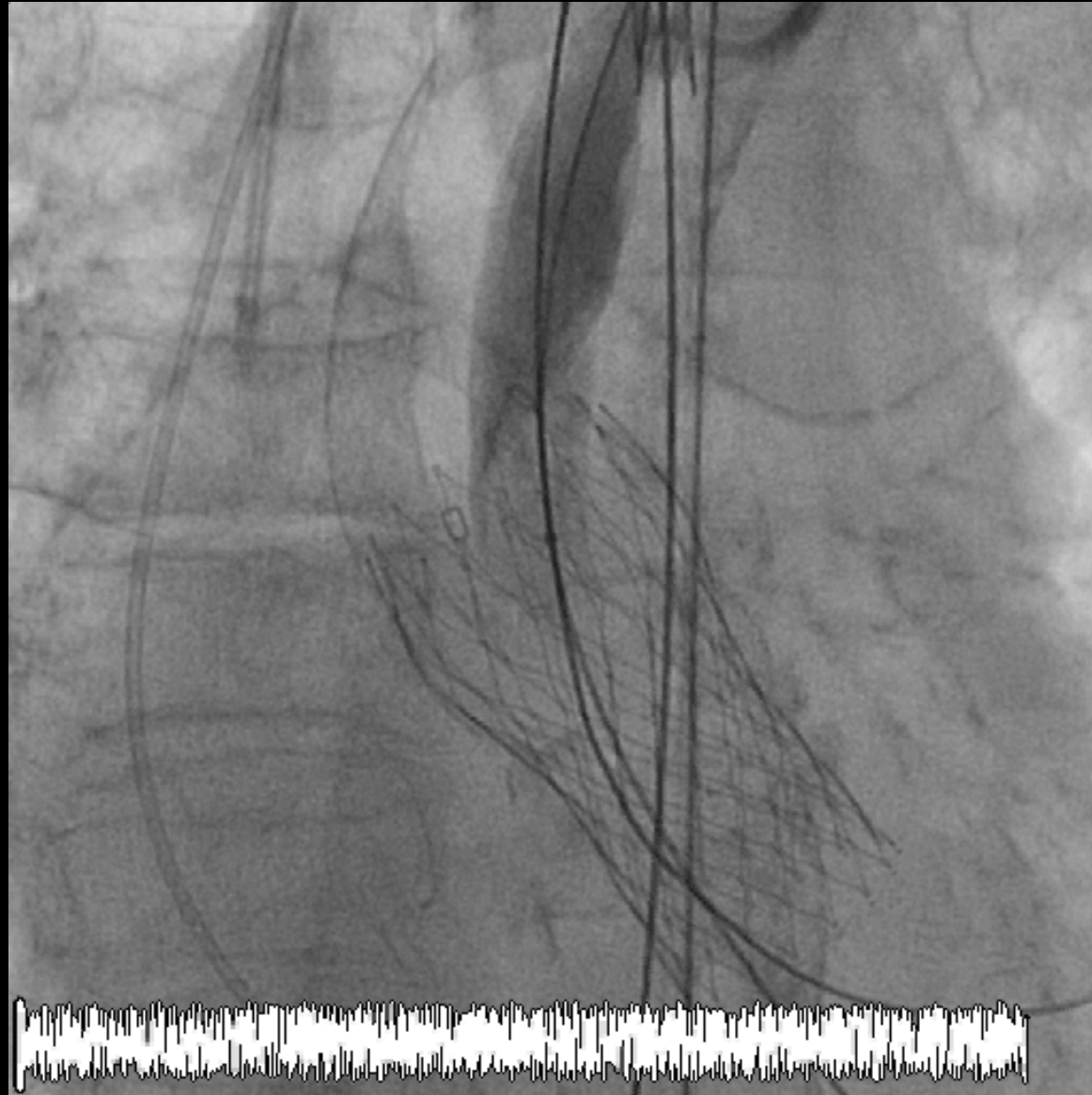
Buddy Wire

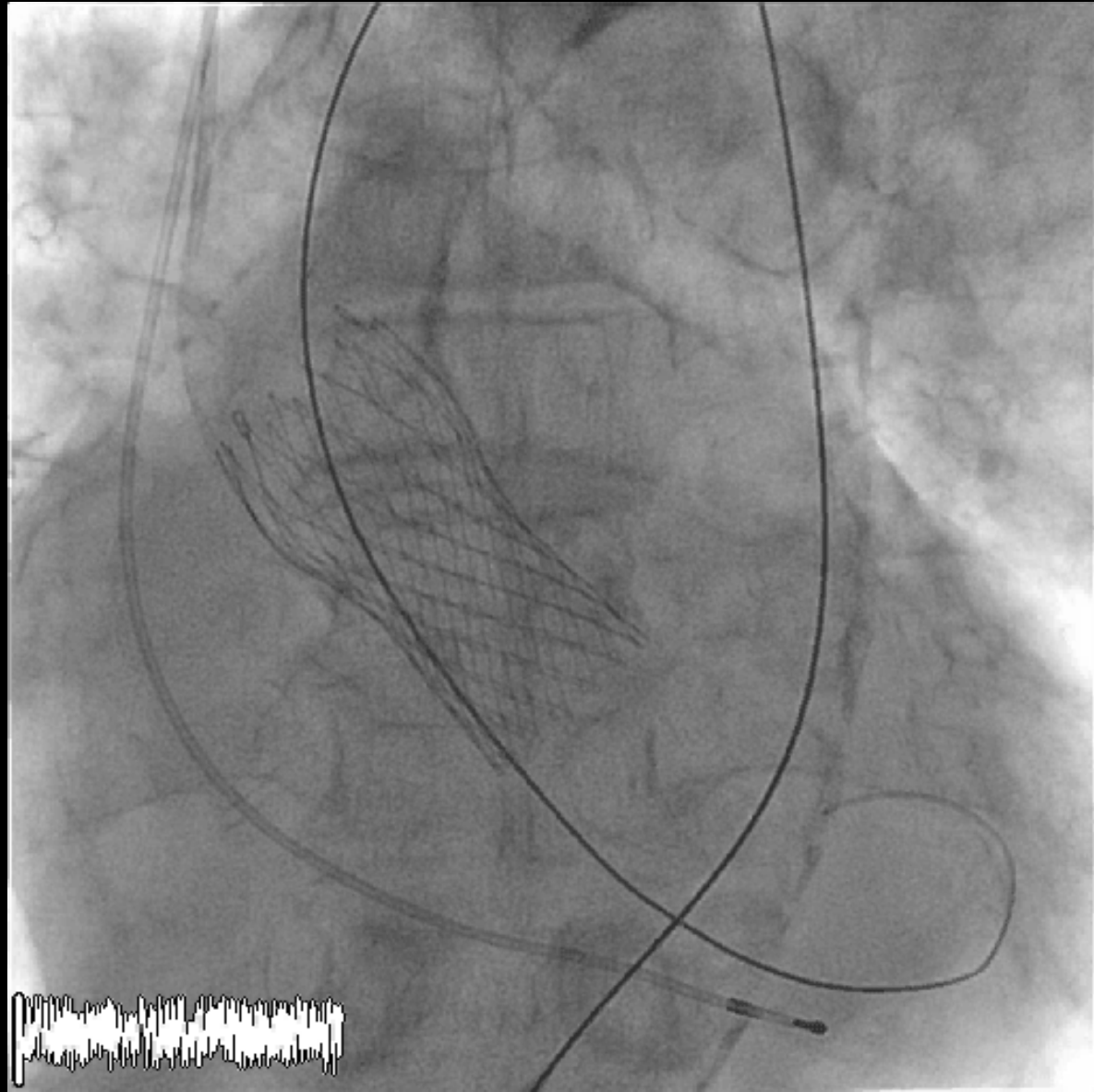


Buddy Wire and Balloon

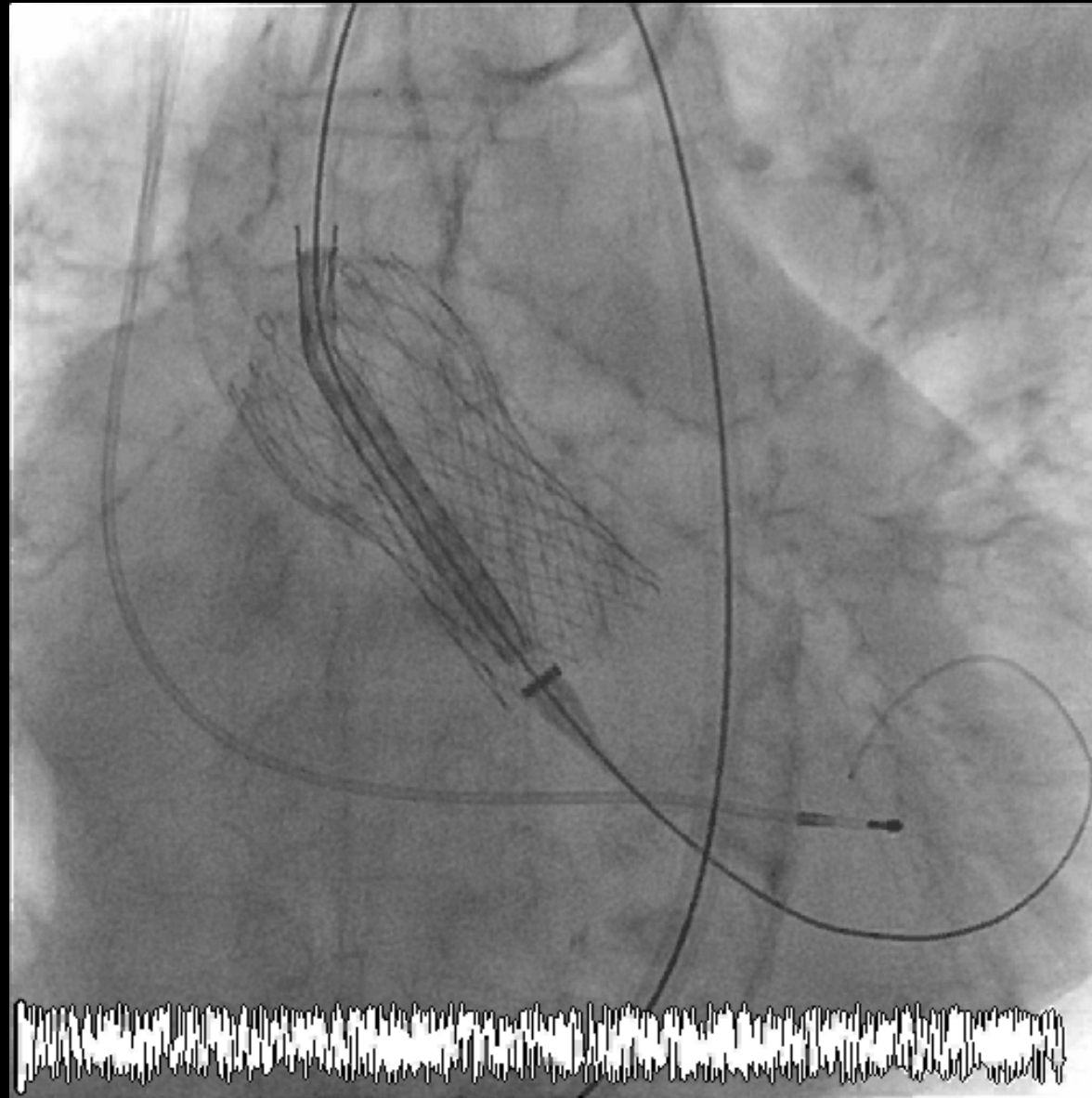


Attempt to cross with Buddy Wire and Balloon

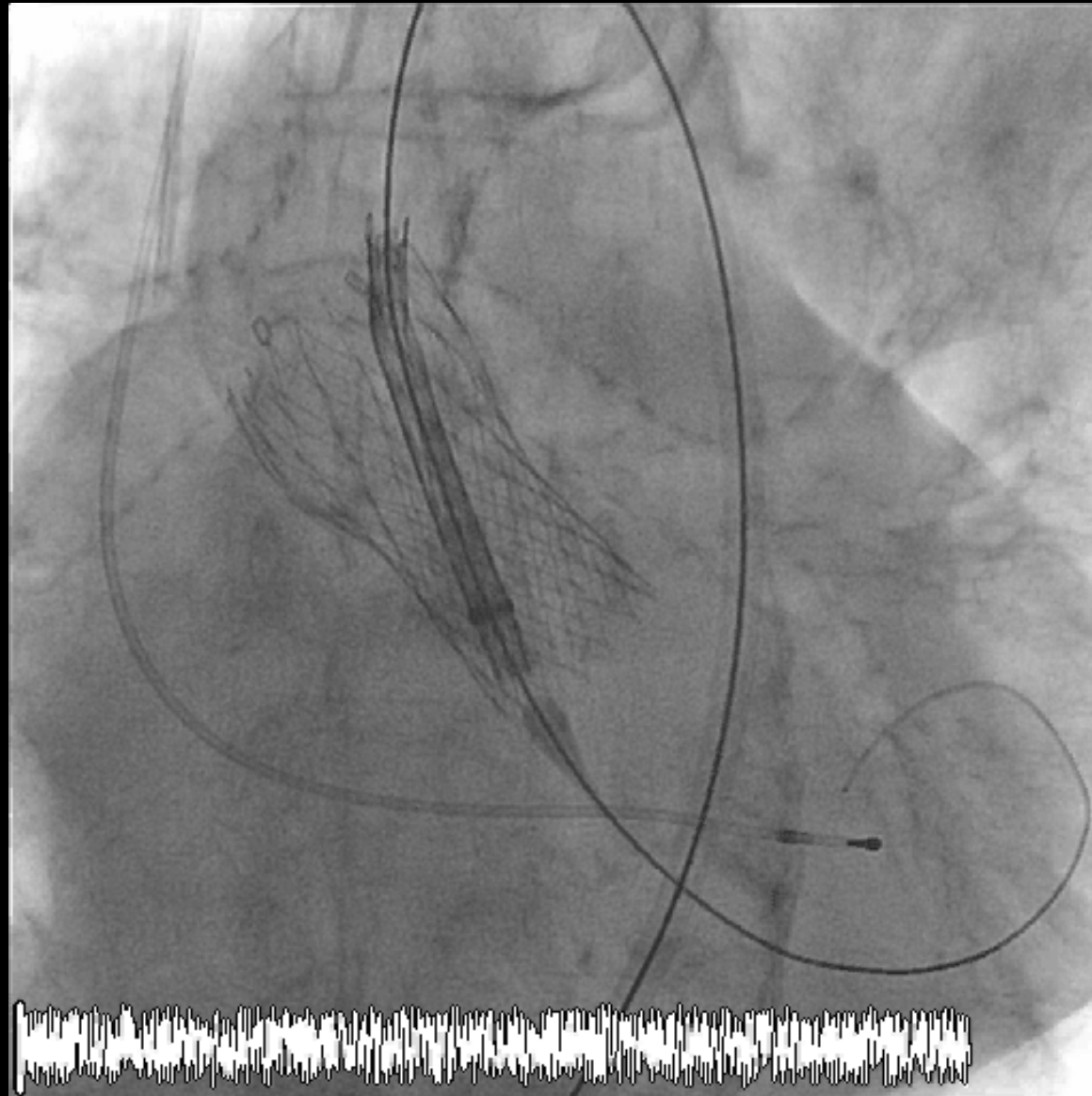




Positioning of 2nd CV (slightly higher)



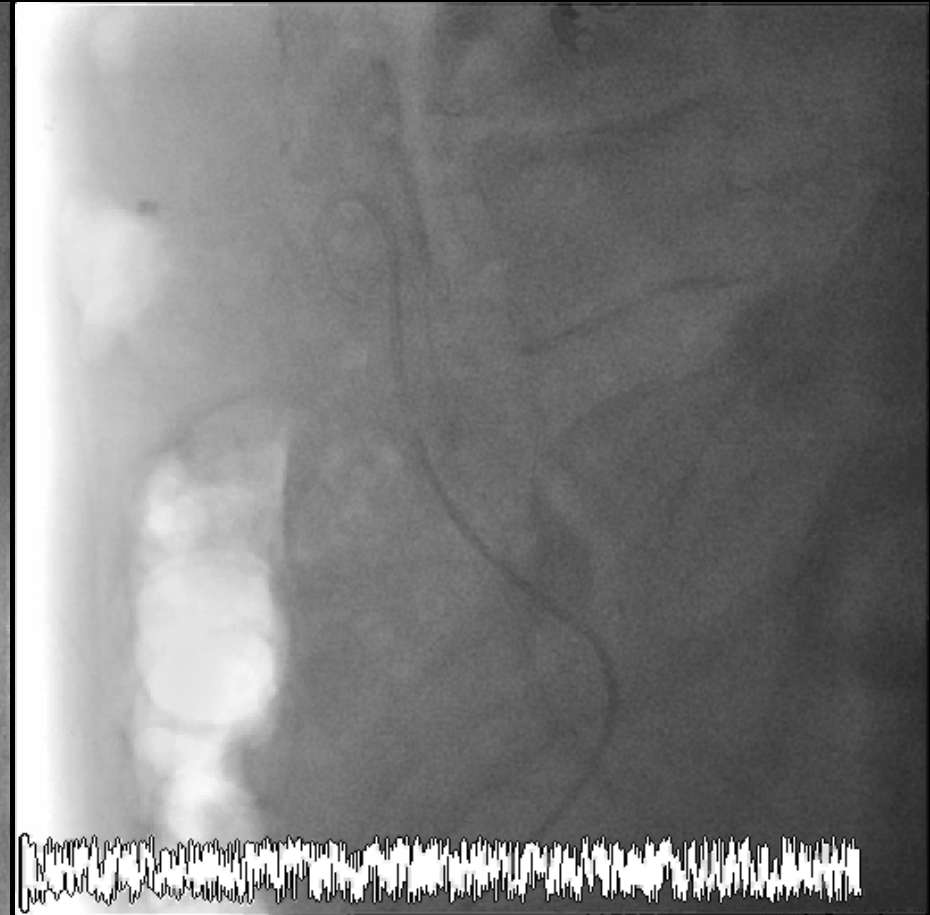
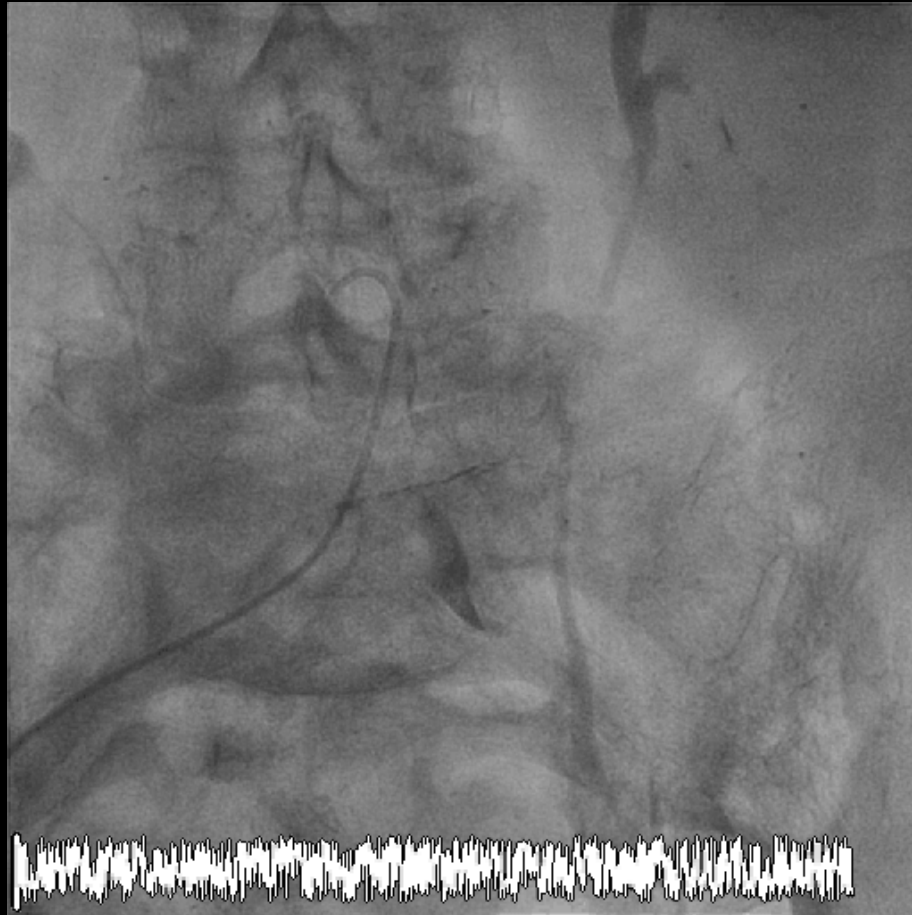
Liberation of 2nd Core Valve



Final Result



Dissection of the left Common Femoral Artery



Final ECHO Result before Discharge

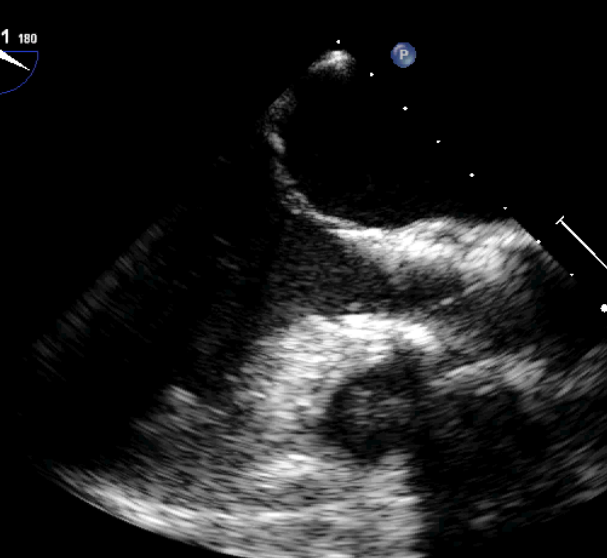
PHILIPS O, A 11/02/2011 14:50:01 TIS0.3 MI 0.5
CV_sten_JIM2011 S7-2omni/Erw.

BF 39Hz
11cm

2D
54%
K 50
M Aus
Aufl



S3



PHILIPS O, A 11/02/2011 14:50:10 TIS1.3 MI 0.7
CV_sten_JIM2011 S7-2omni/Erw.

BF 18Hz
11cm

2D
60%
K 50
M Aus
Aufl



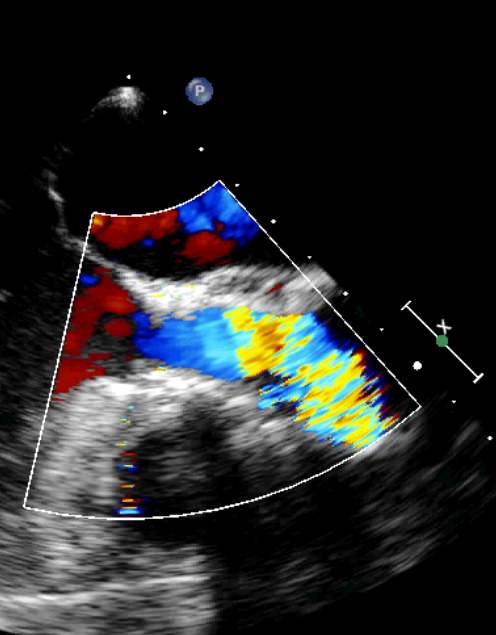
FD
70%
4.9MHz
WF Hoch
Mittel



S3 S4

59.6

59.5
cm/s



JPEG

*** /min