

Physiology Case Review

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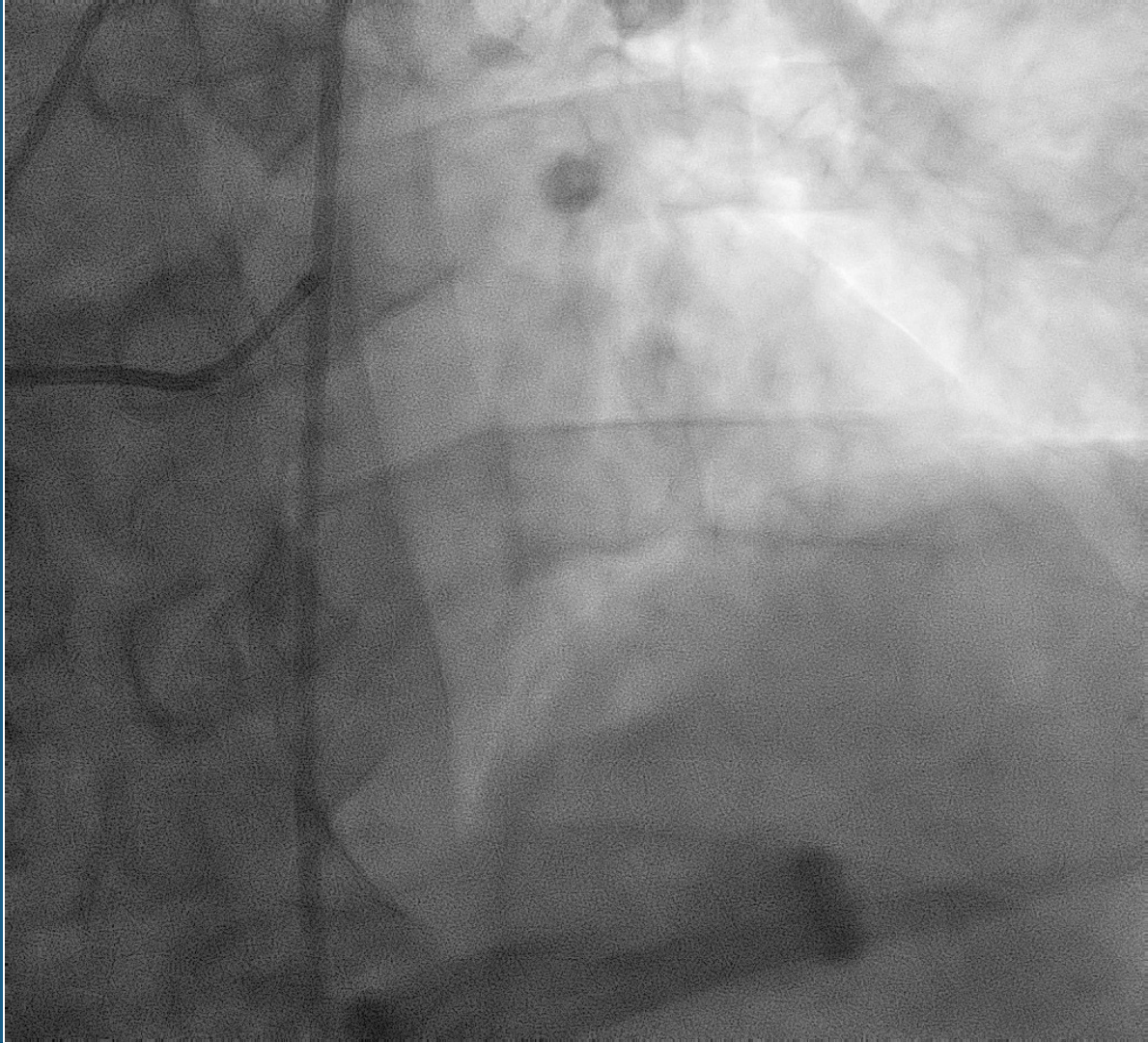
innovation  you



Case 1:

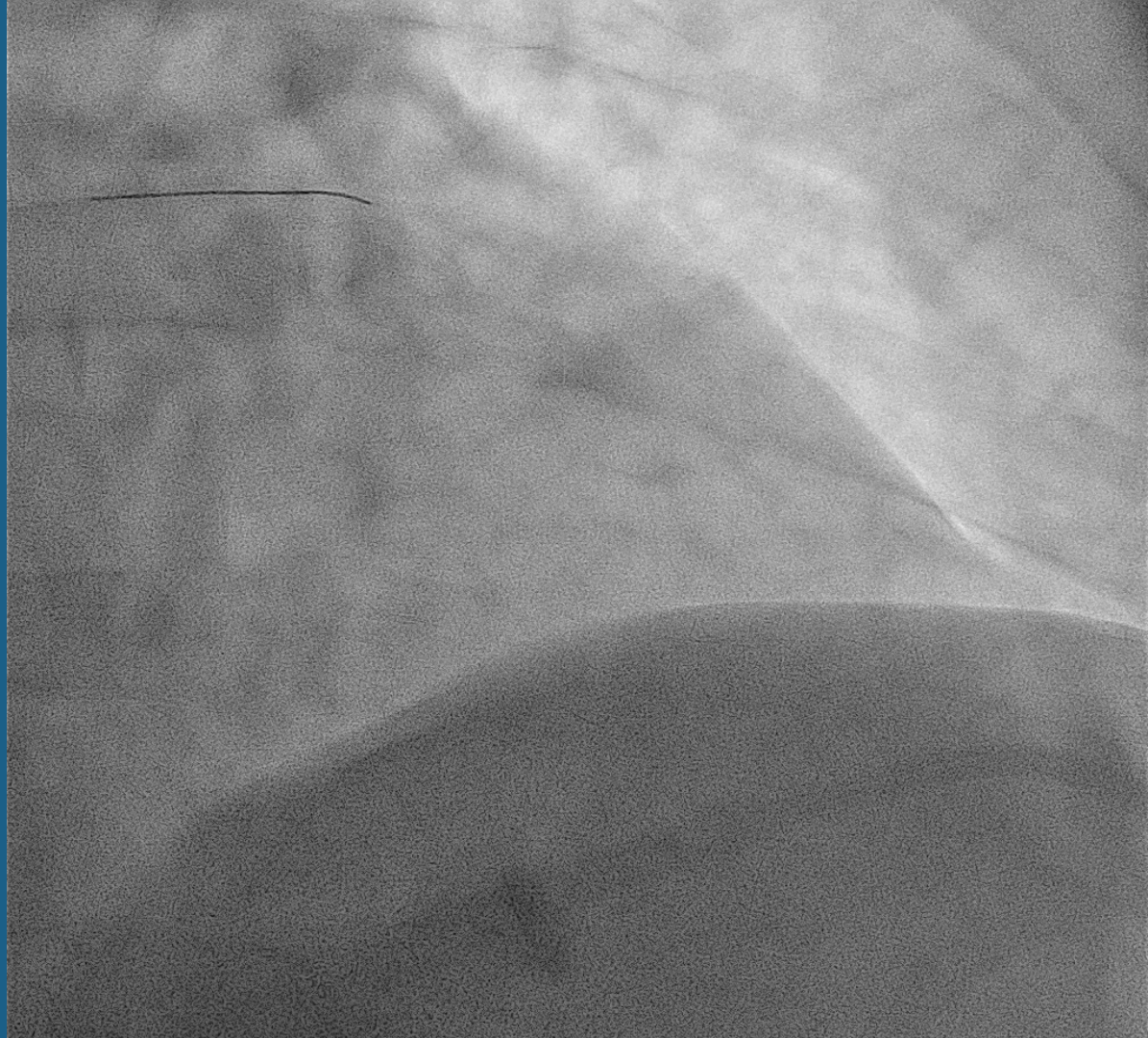
80 year old man with chest pain.

Part of LMR for Omniwire



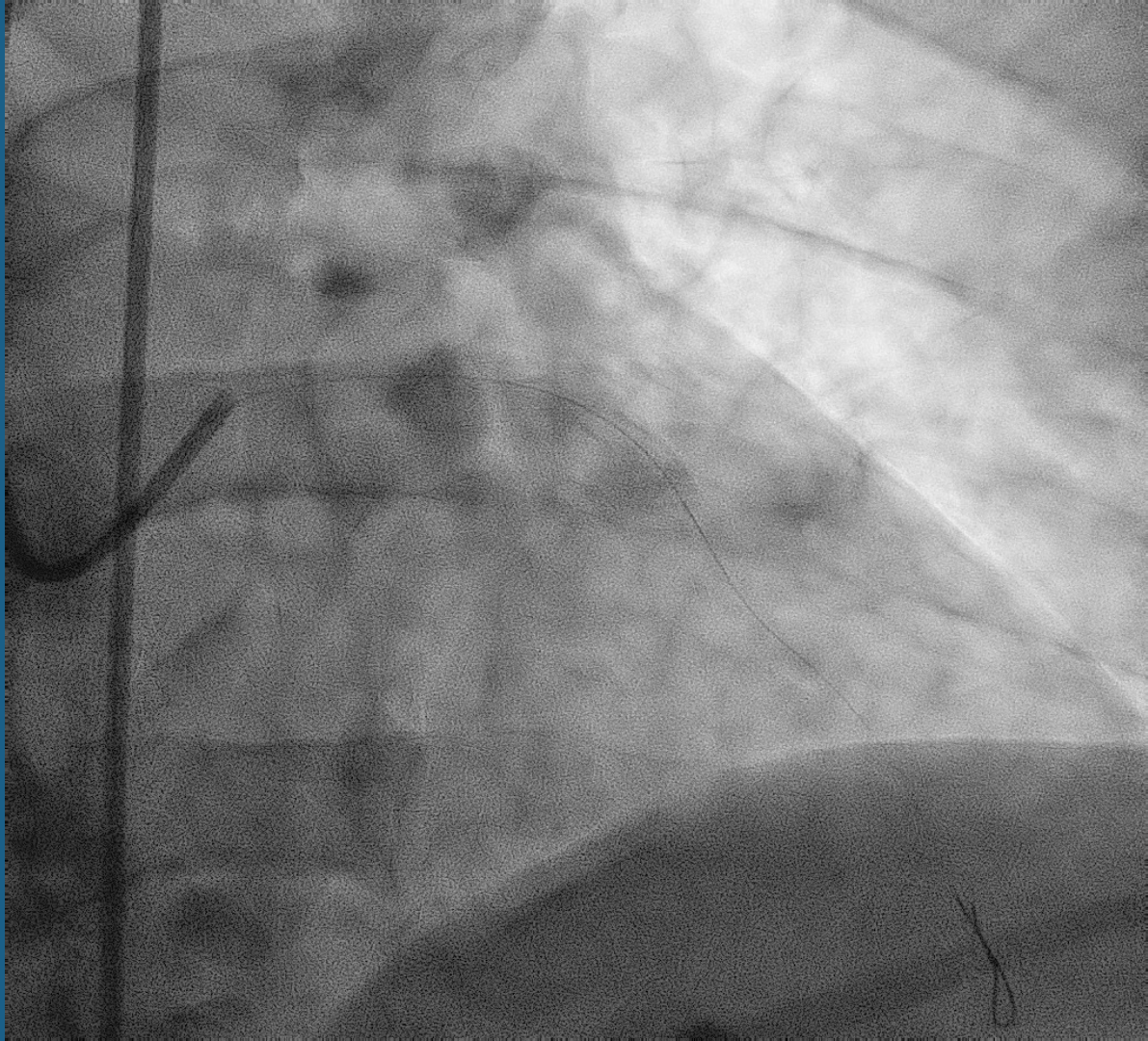
Case 1:

Easy torquability of the
Omniwire.



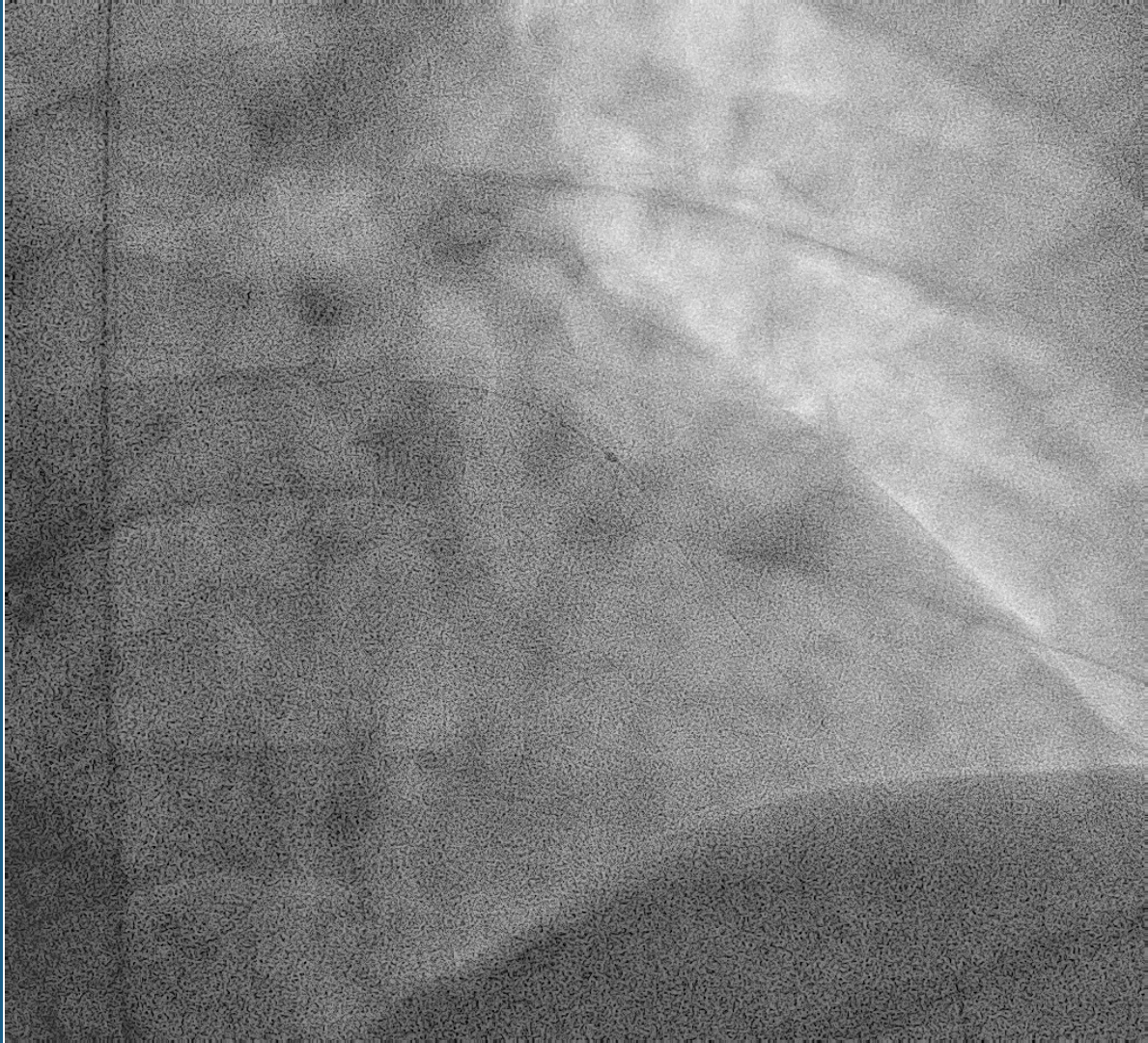
Case 1:

iFR was 0.52 which is highly significant as expected.



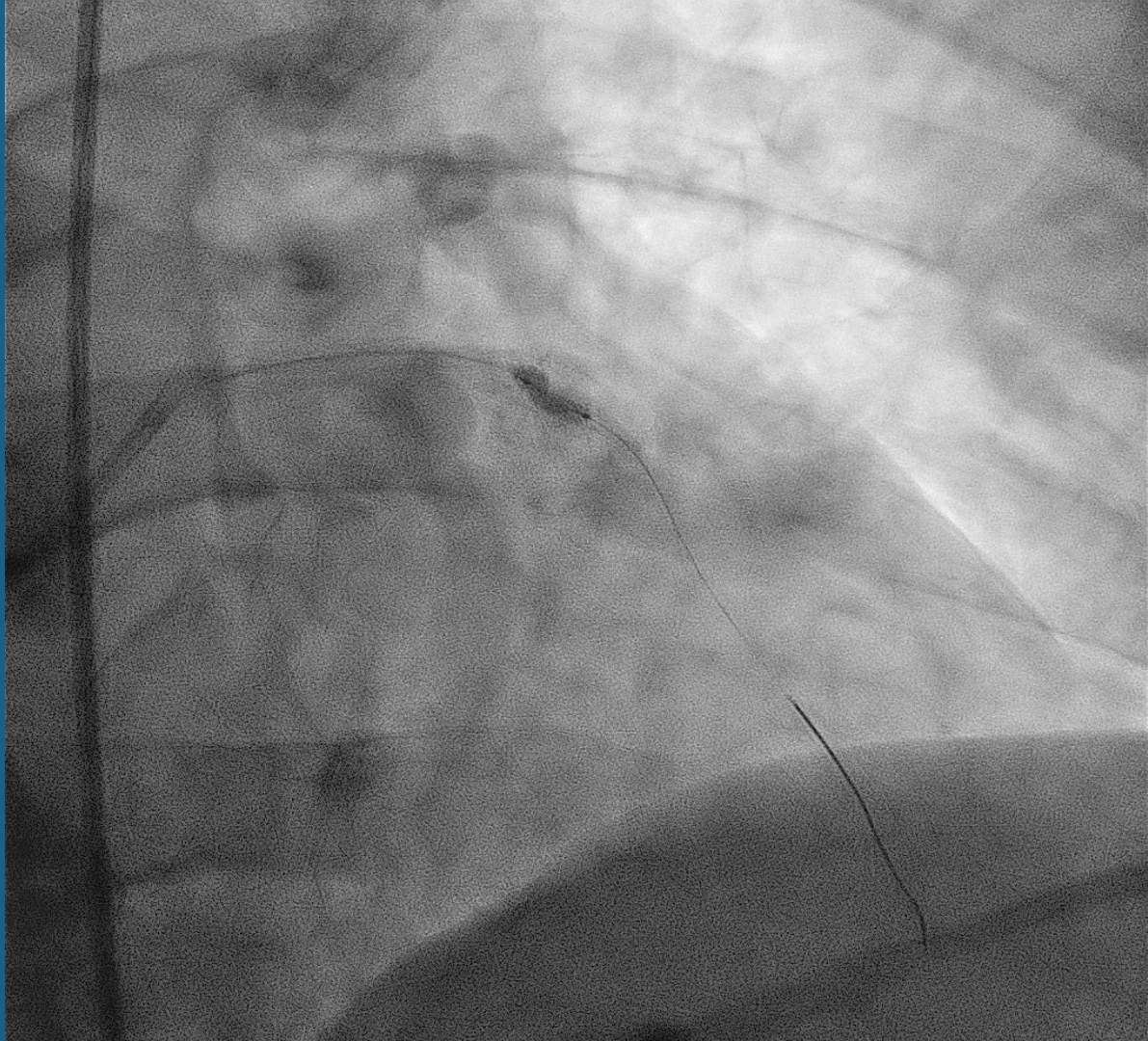
Case 1:

0.9 ELCA 60/60, 60/80,
80/80 due to calcium by
IVUS



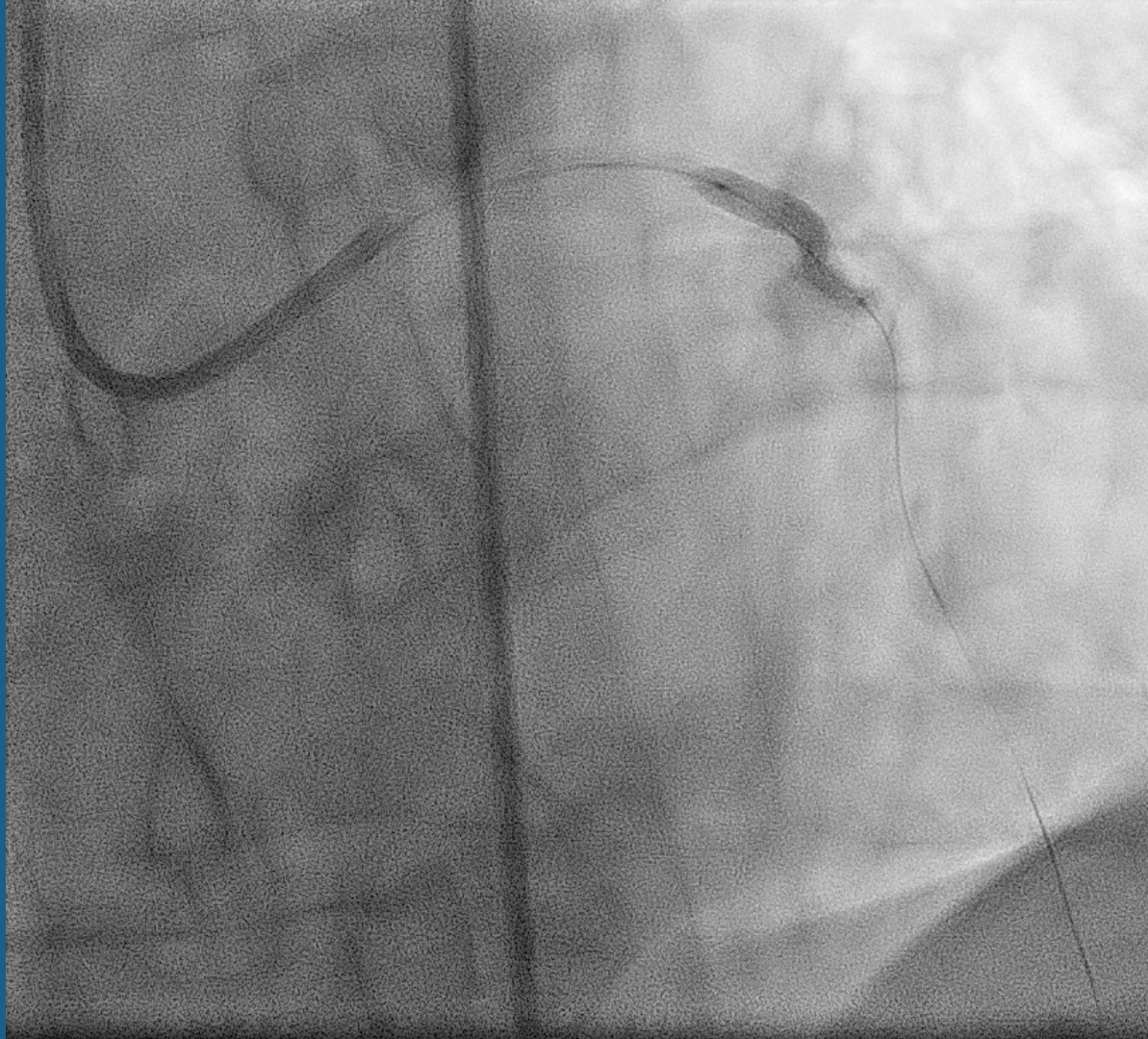
Case 1:

Multiple NC inflations and
also Wolverine cutting
balloon



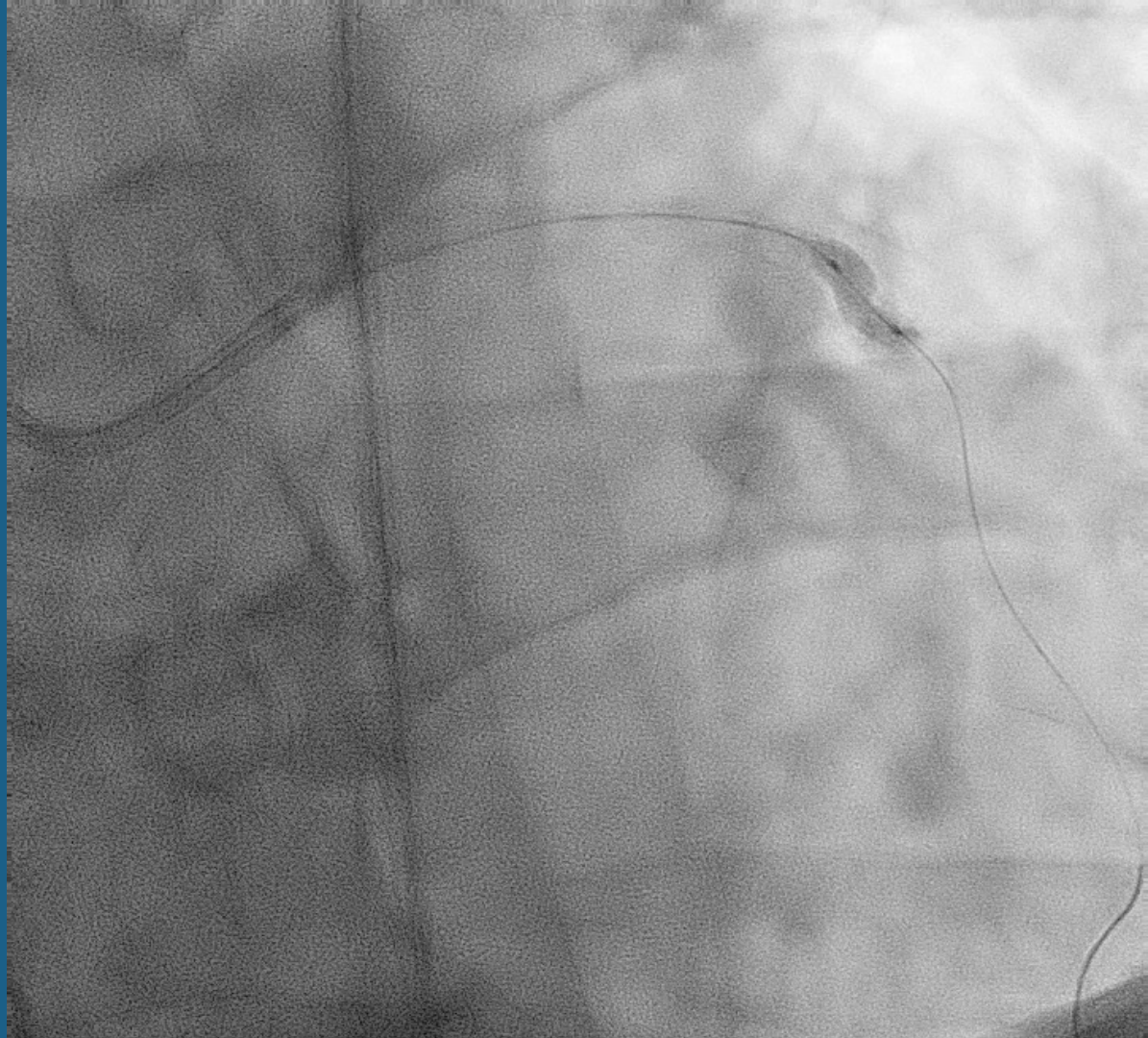
Case 1:

3.0 x 18 mm Xience DES



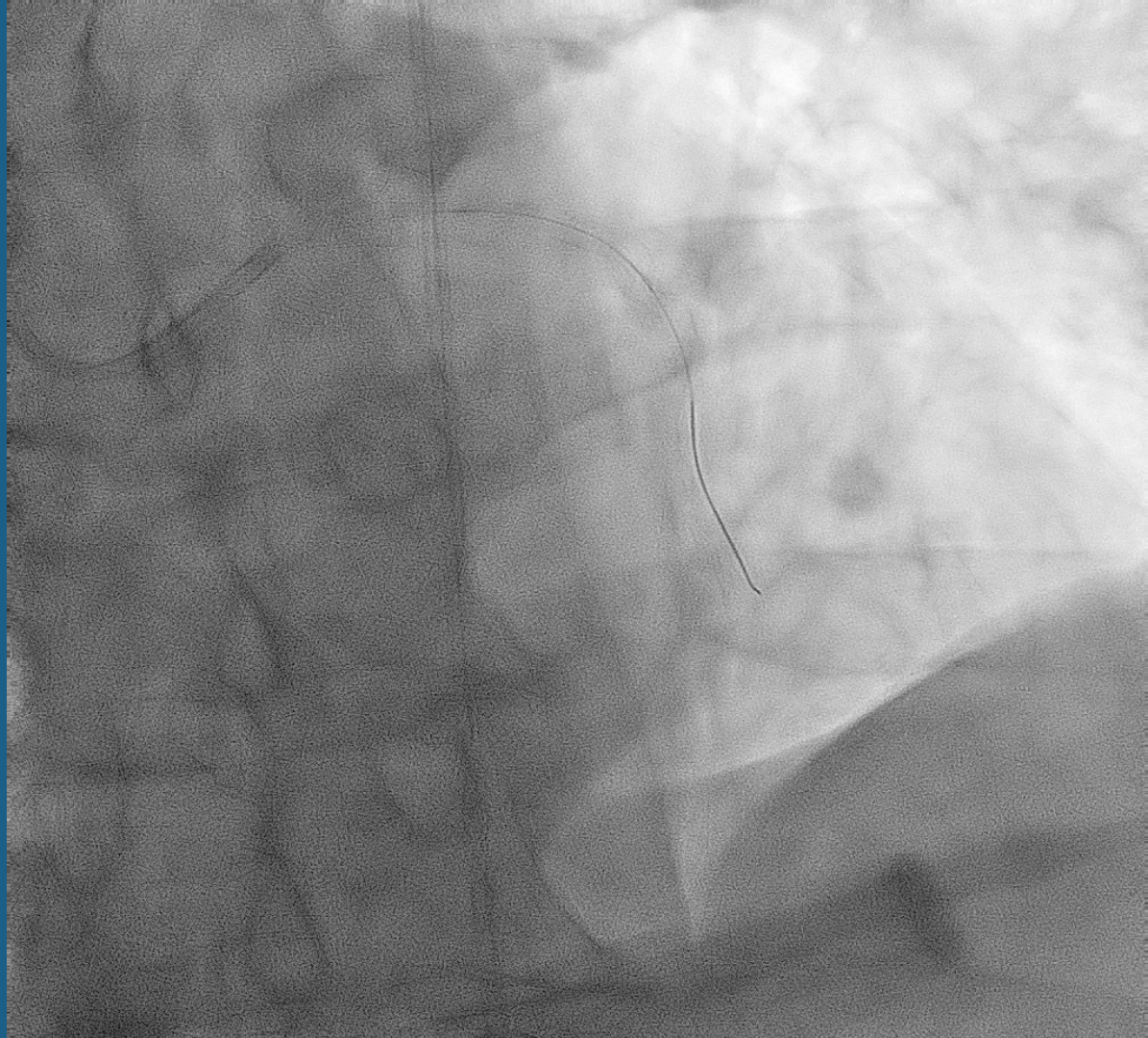
Case 1:

Post-dilated NC after IVUS



Case 1:

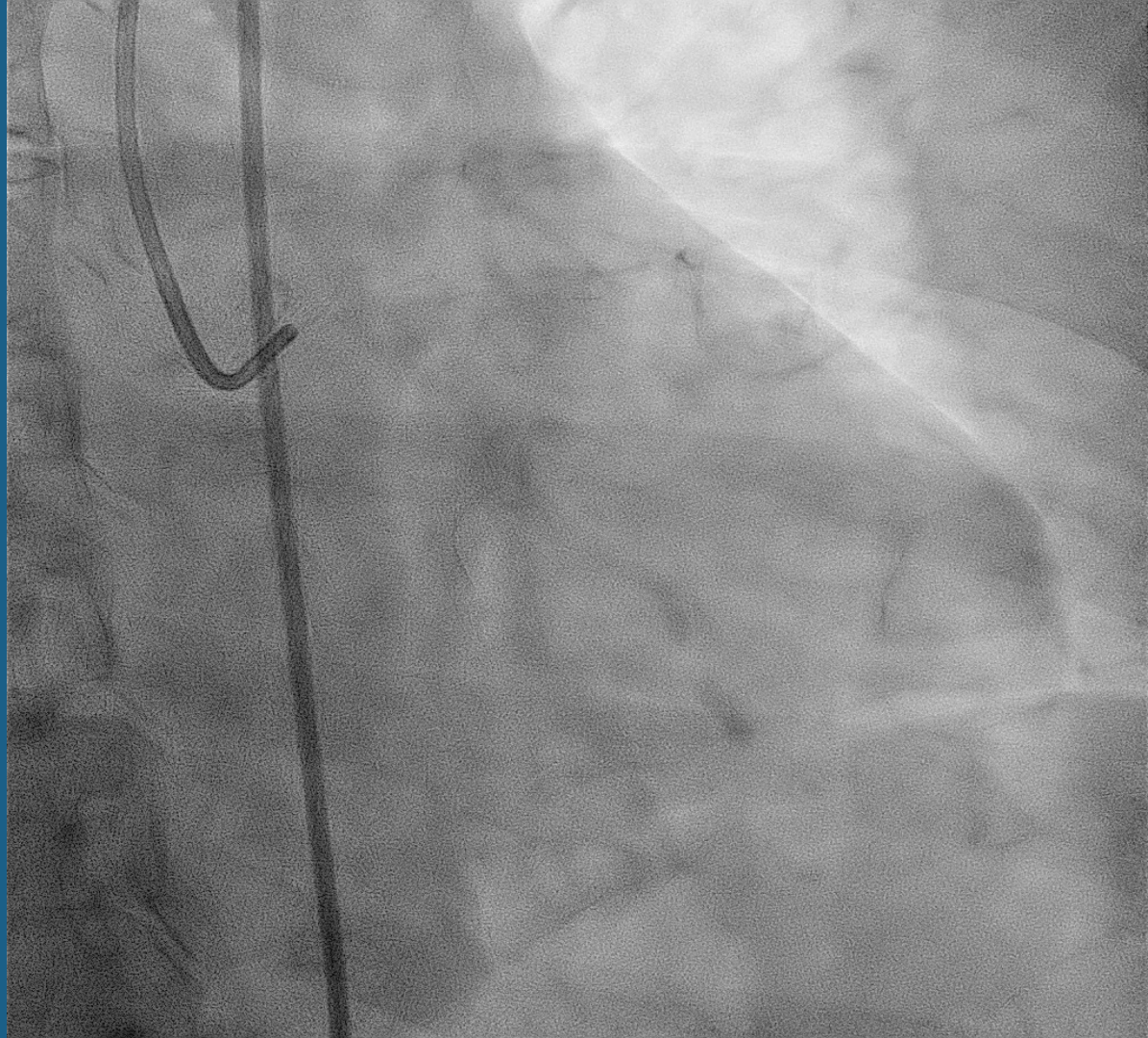
Final Angio: iFR post 0.91
distally and 0.94 at stent
edge



Case 2:

78 year old woman with abnormal CT-FFR and chest pain.

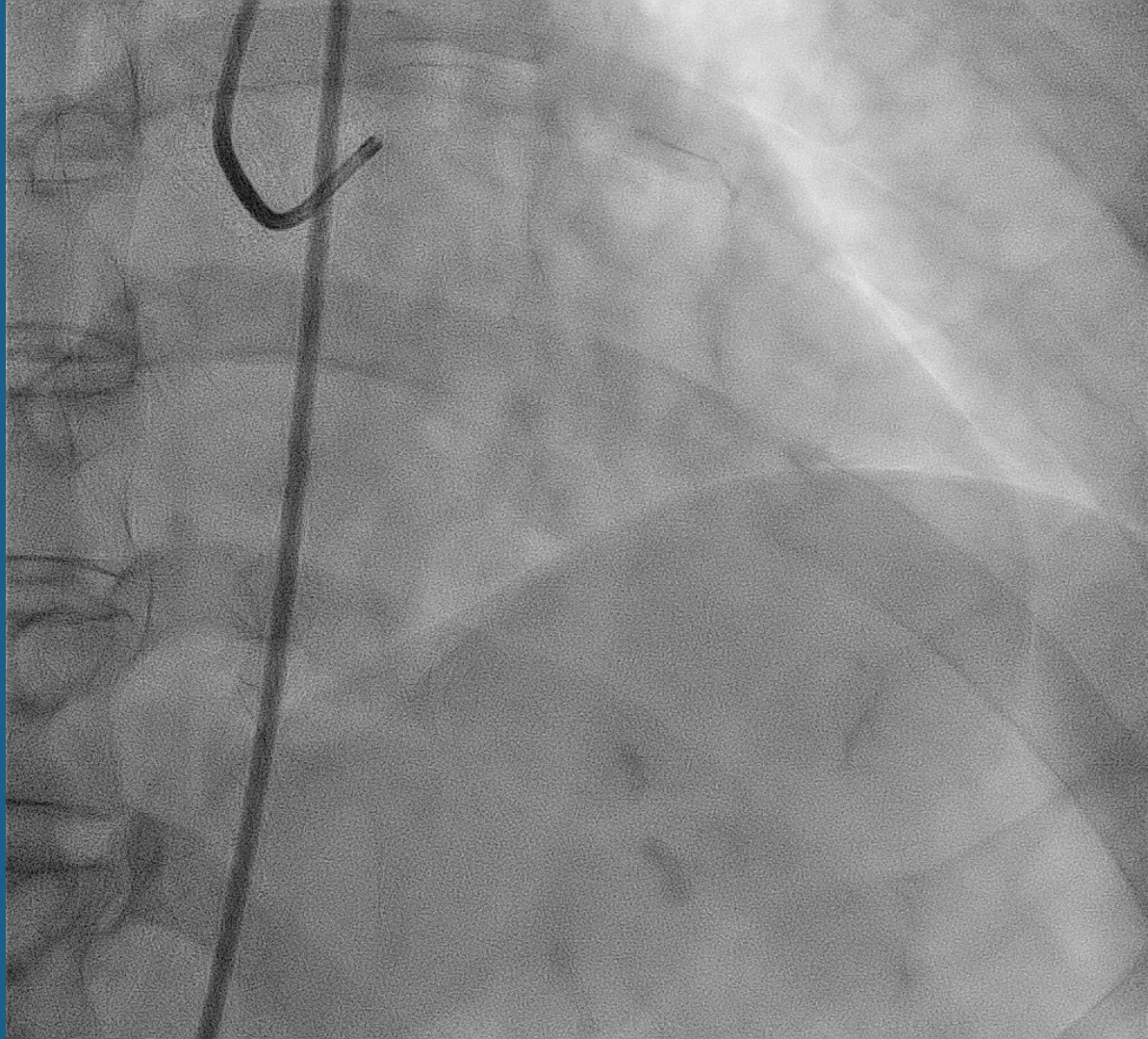
CT-FFR Abnormal in LAD and LCx



Case 2:

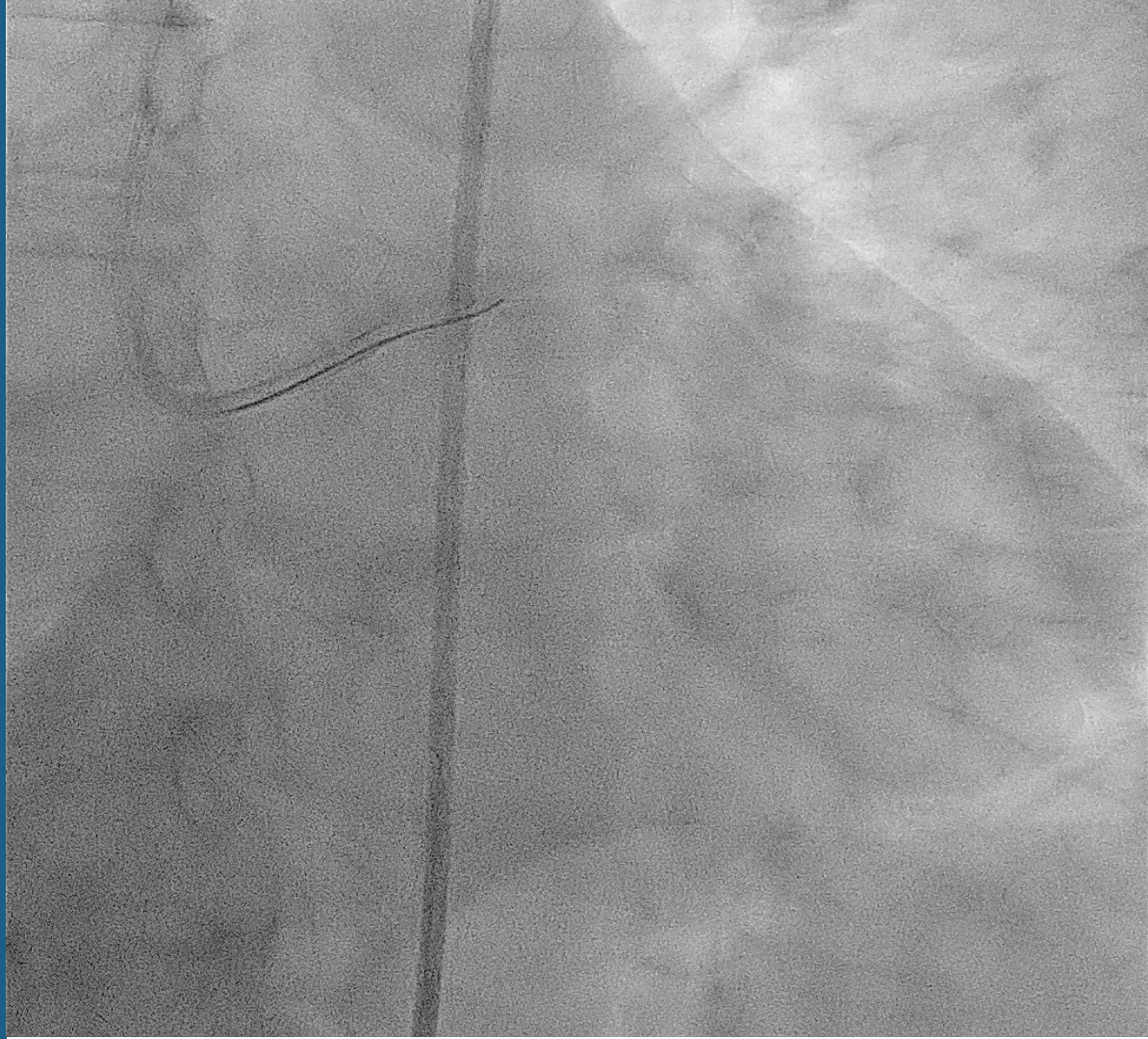
78 year old woman with abnormal CT-FFR and chest pain.

CT-FFR Abnormal in LAD and LCx



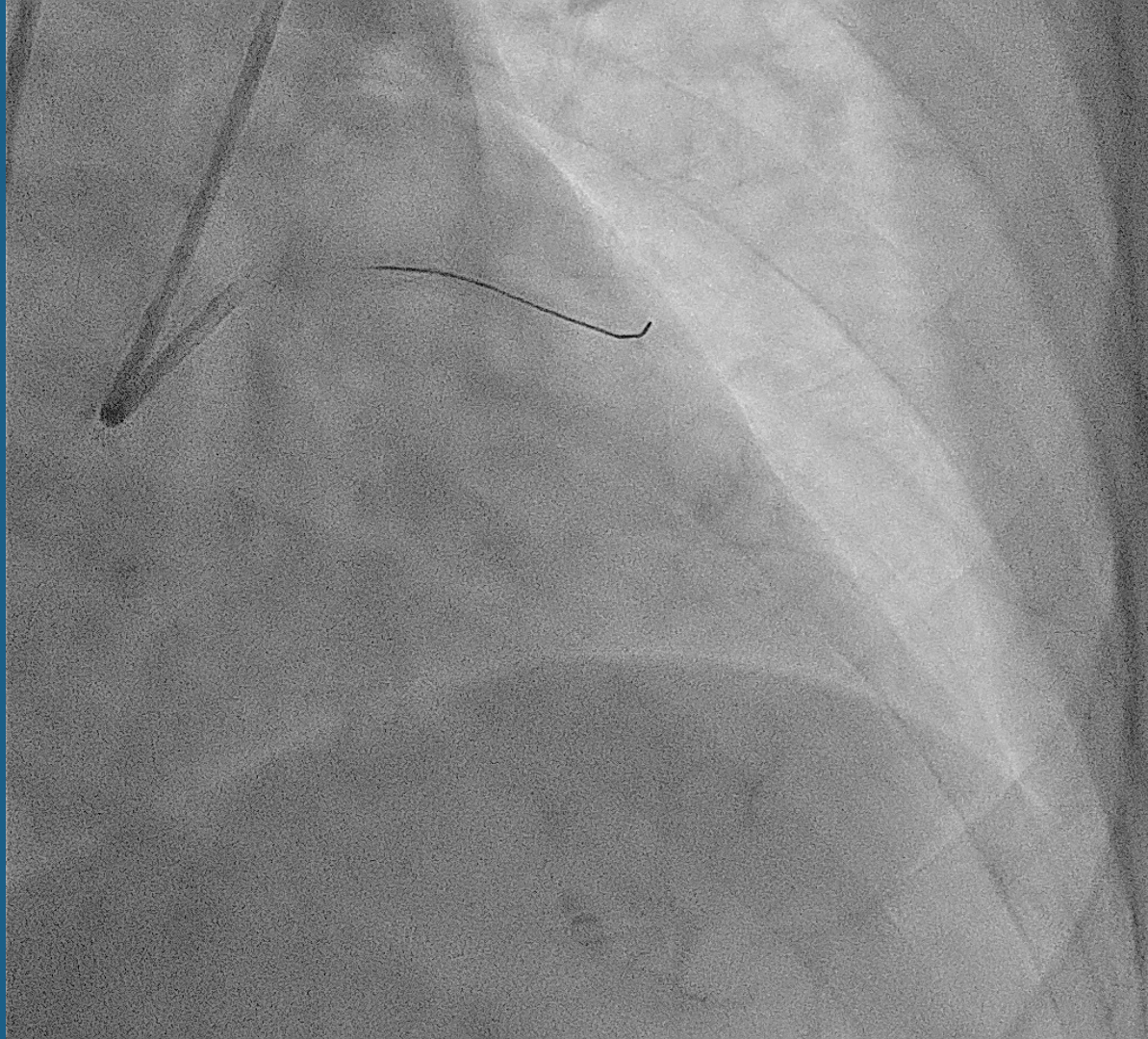
Case 2:

Easy torquability of the wire.



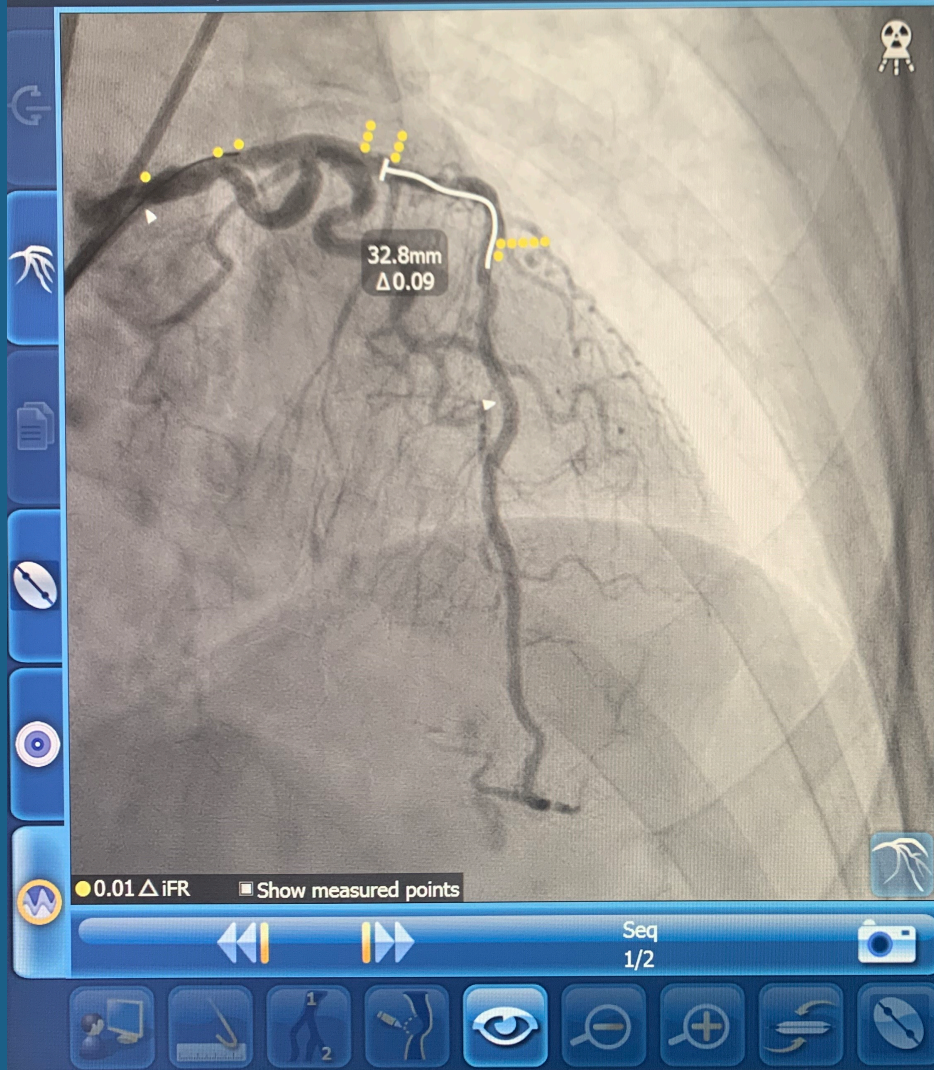
Case 2:

Easy torquability of the wire.

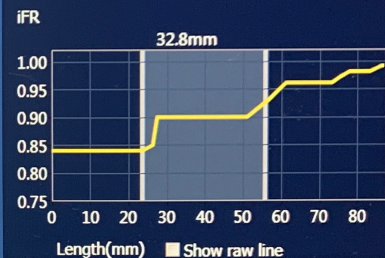


Case 2:

iFR 0.84 distally

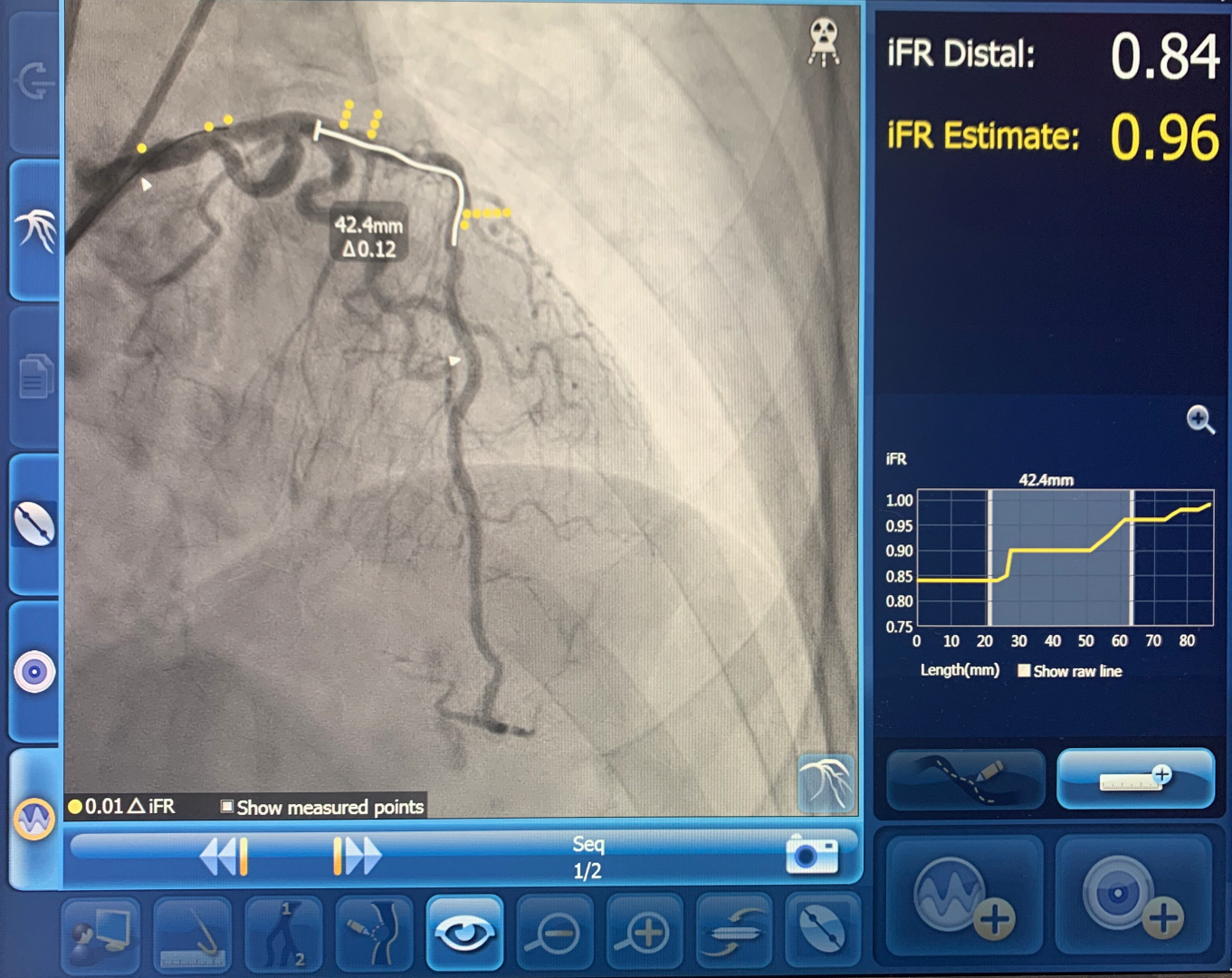


iFR Distal: 0.84
iFR Estimate: 0.93



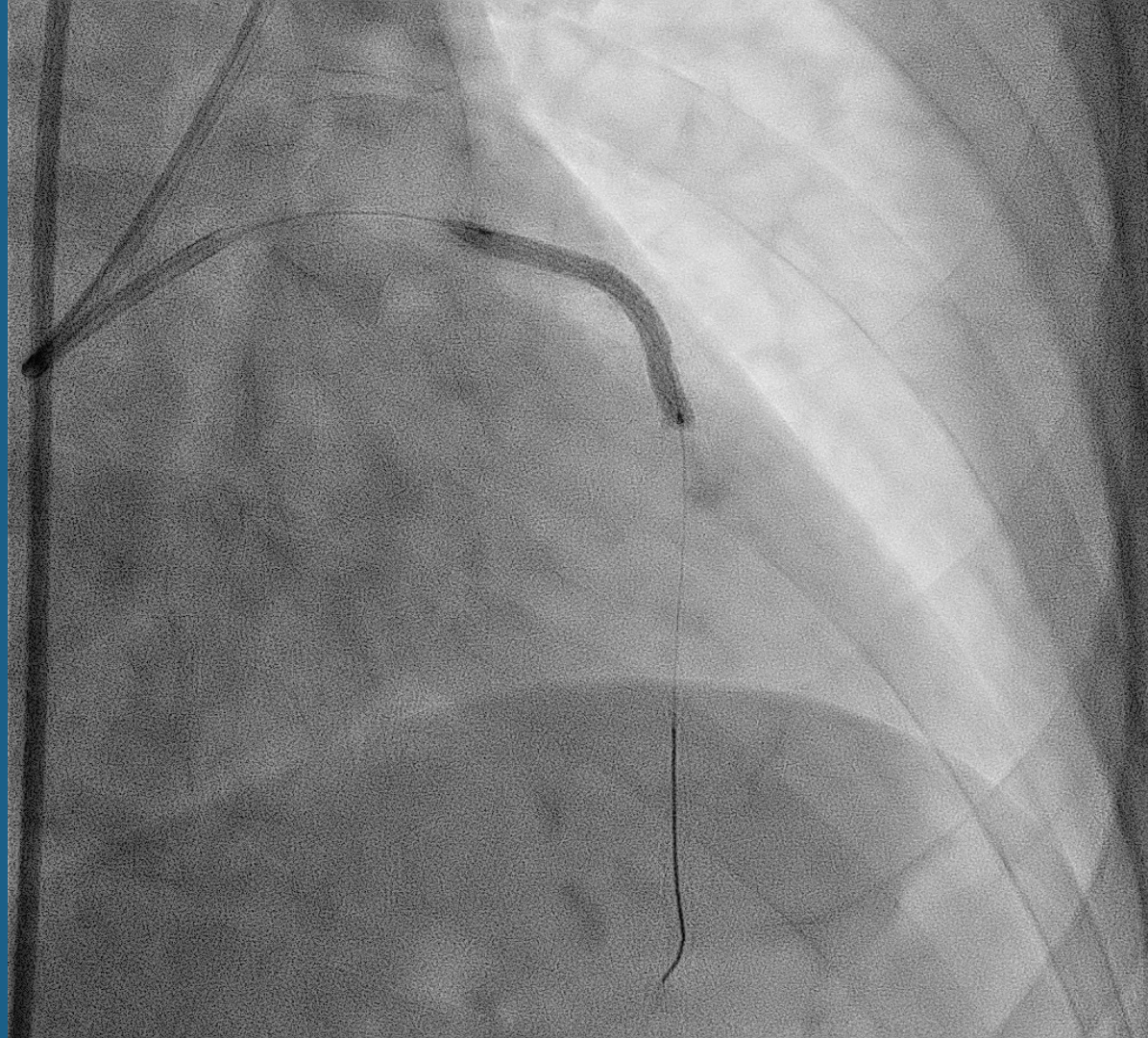
Case 2:

Pullback shows two areas of step-up. Will try a single stent strategy



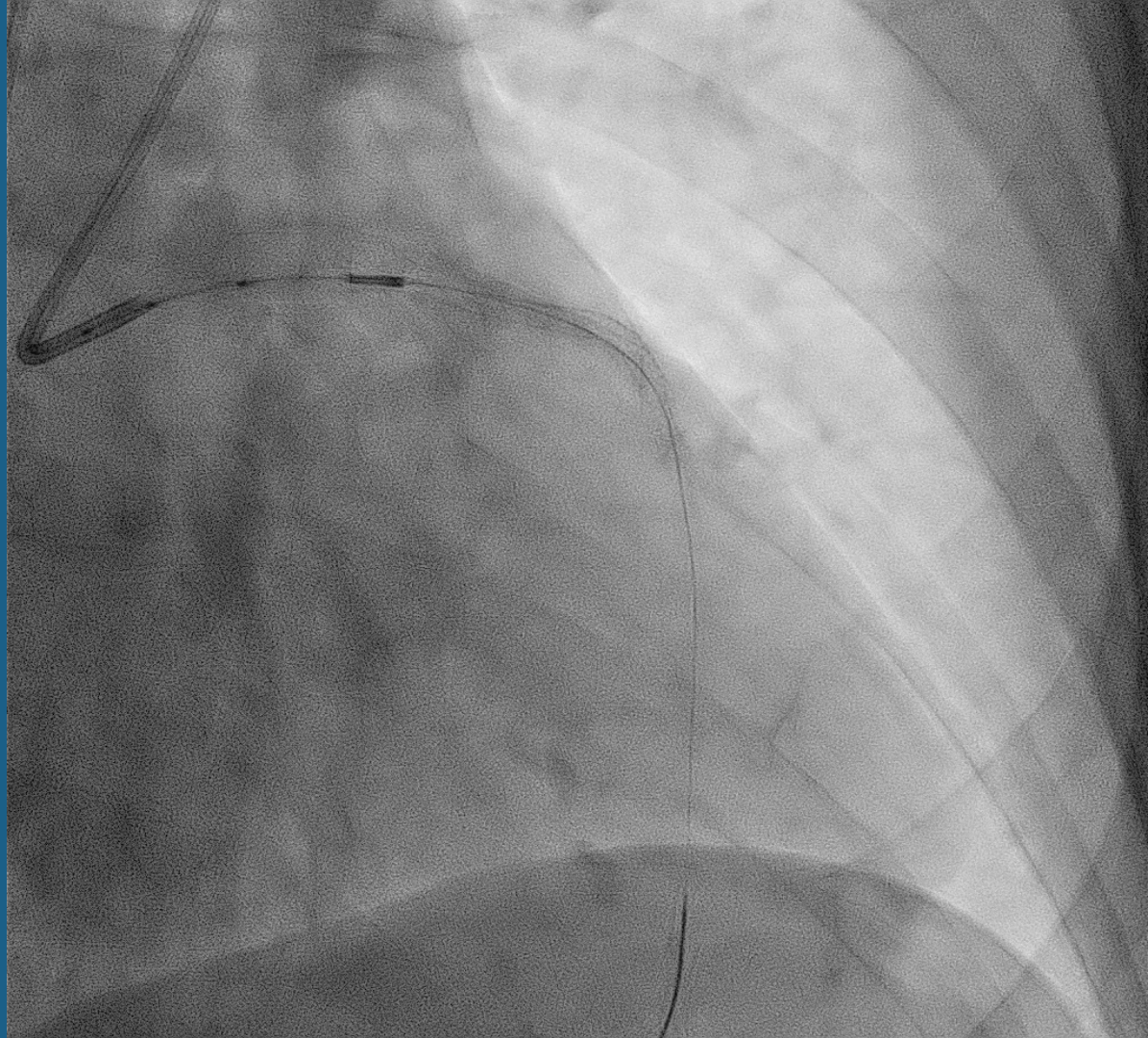
Case 2:

Predilation and then
stenting with a 3.0 x 38 mm
Xience DES



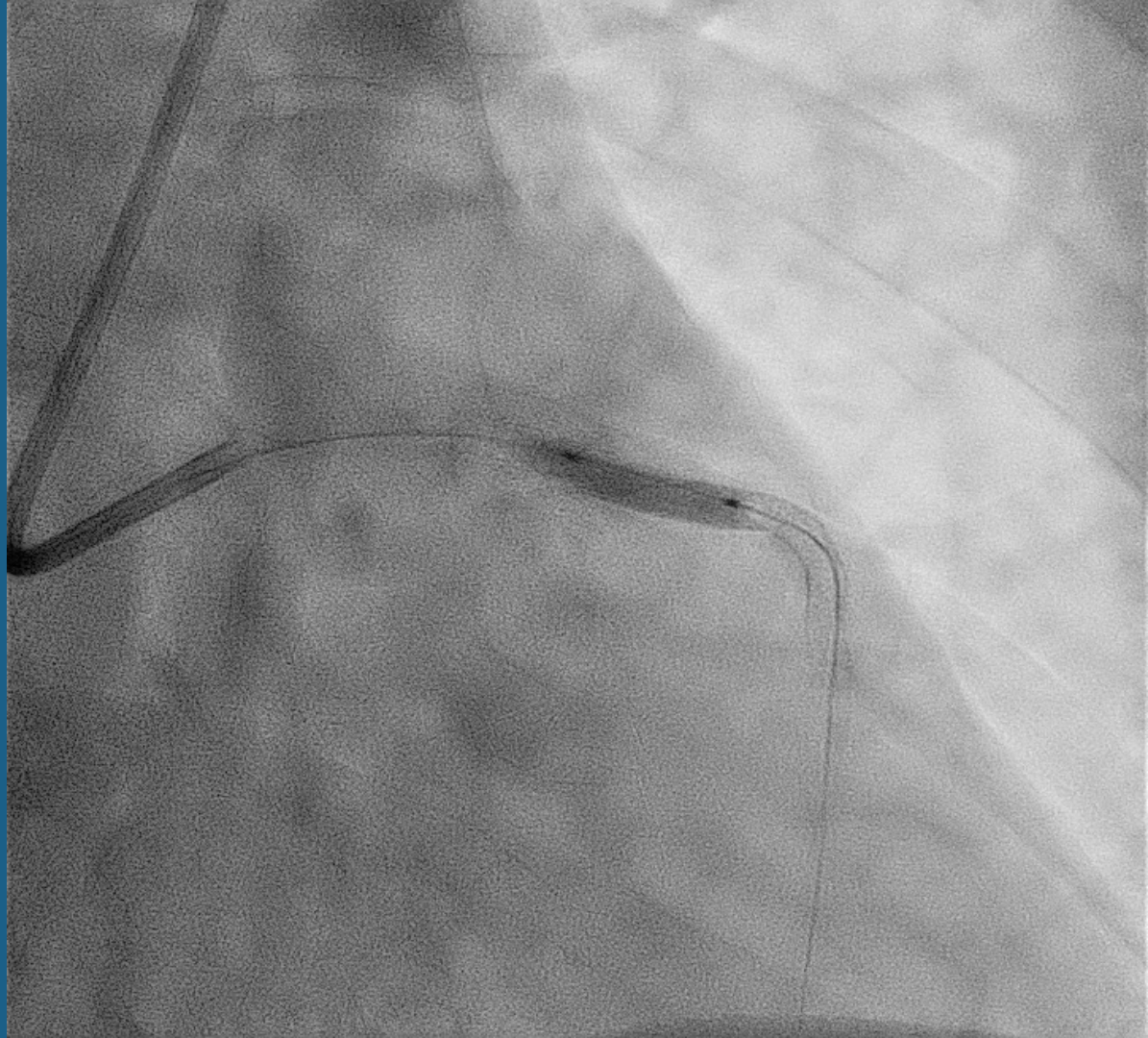
Case 2:

iFR post stenting still 0.89.
Pullback shows the
proximal gradient. IVUS
done which confirms
residual moderate plaque
hemodynamically
significant.



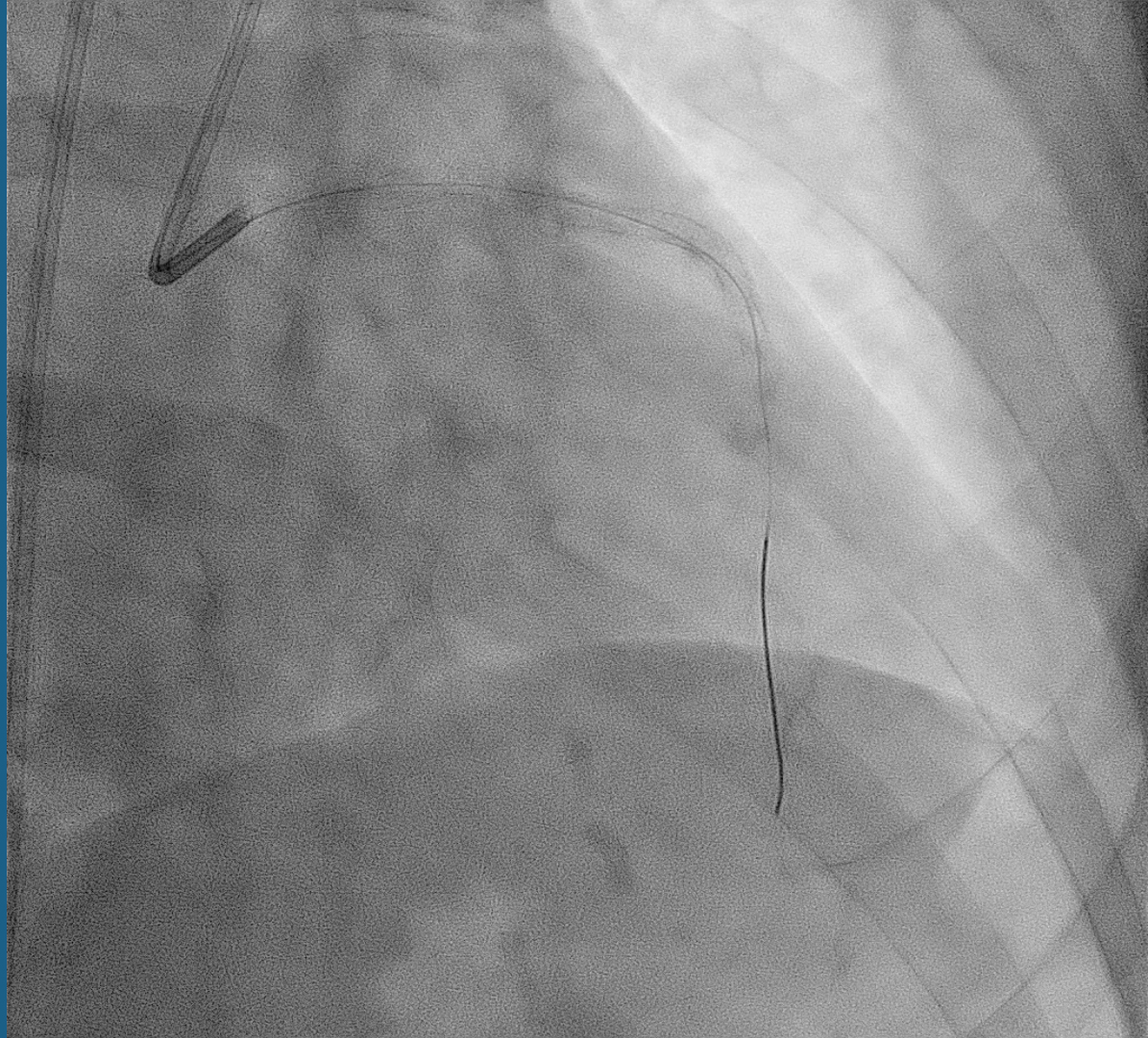
Case 2:

Proximal LAD stented 3.5 x 15 mm Xience and post-dilated.



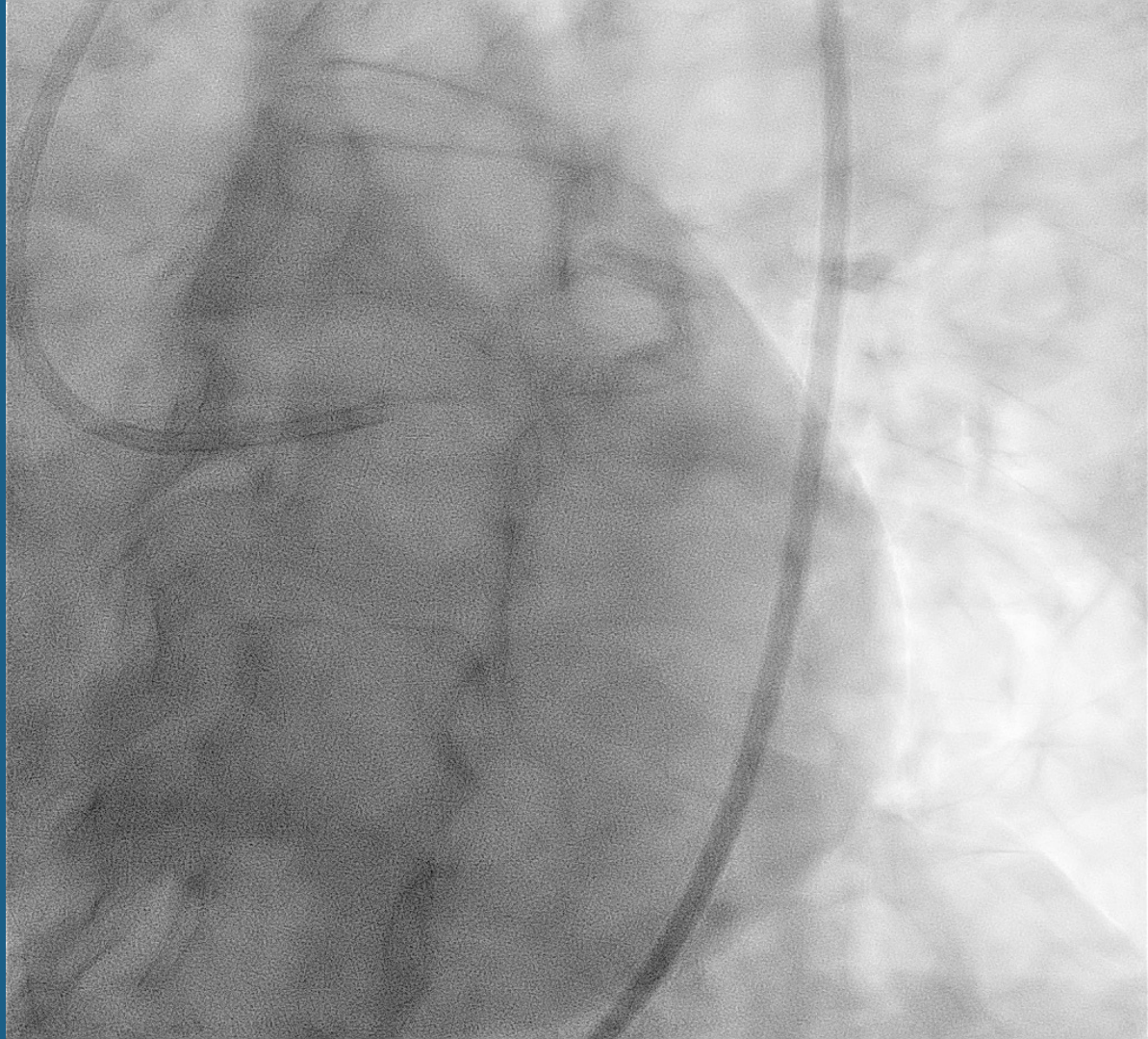
Case 2:

Moderate distal edge stenosis. IVUS shows only plaque in one quadrant. iFR 0.97.



Case 2:

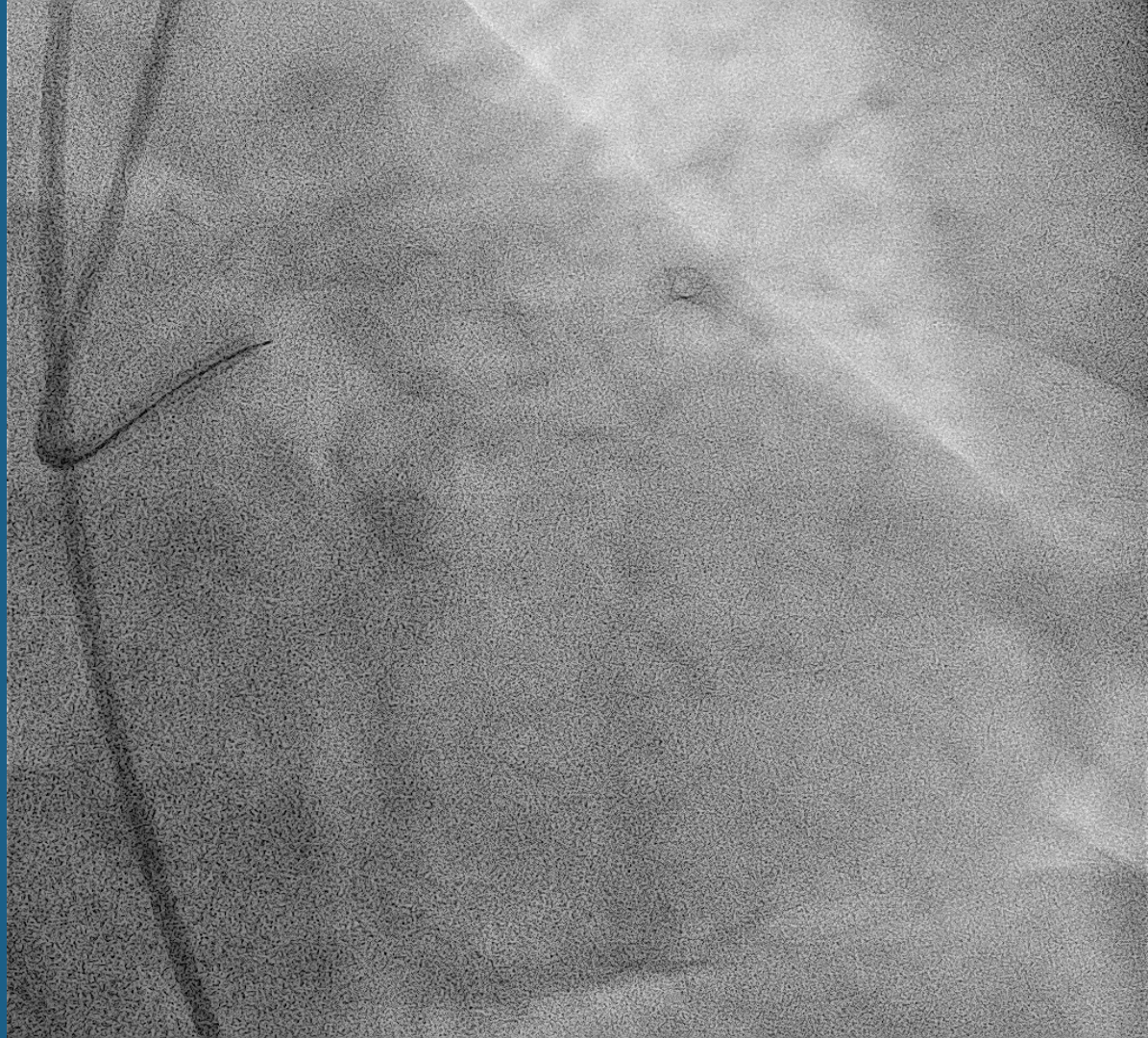
Angiographically hazy and
severe LCx lesion



Case 2:

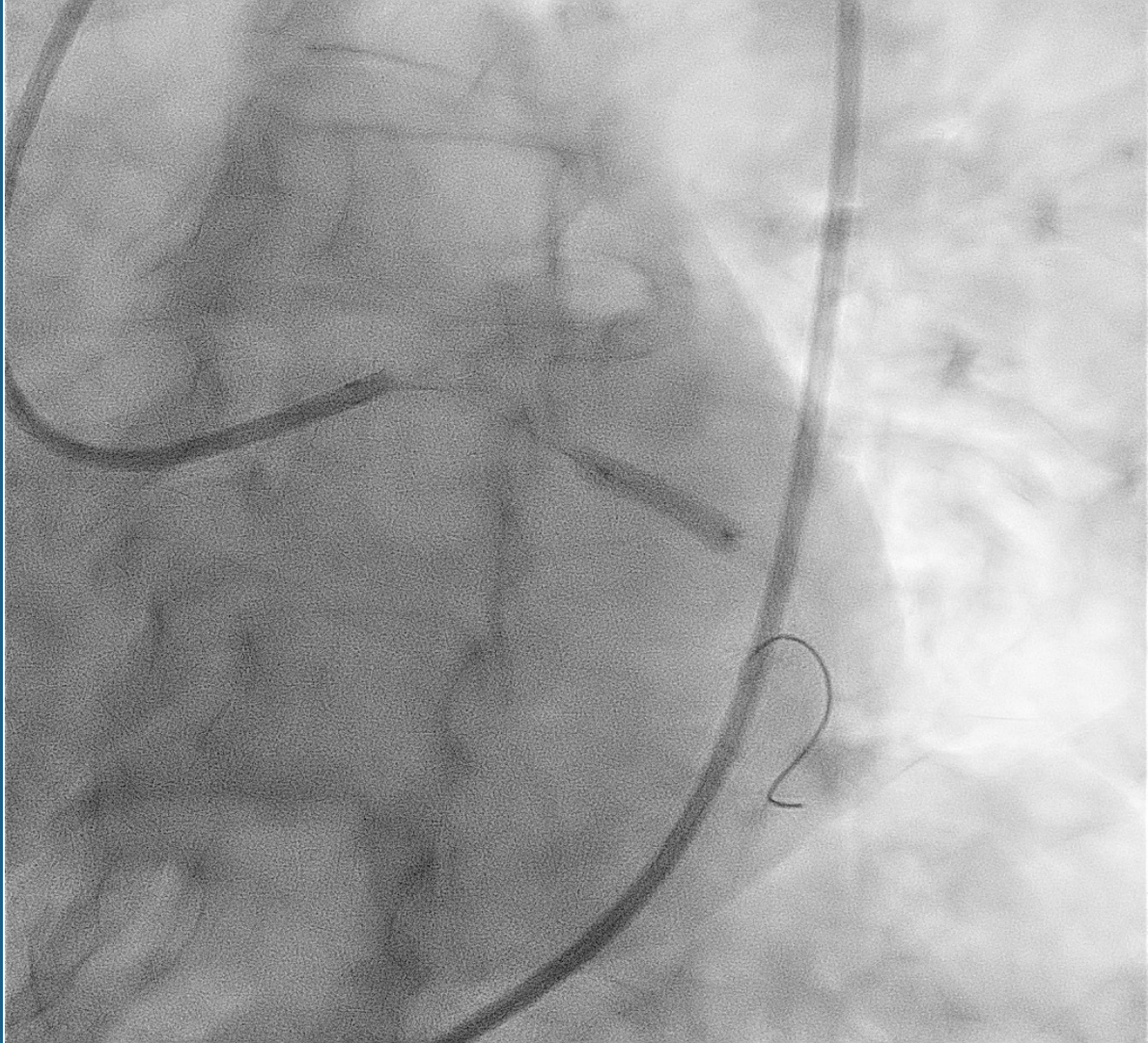
Omniwire easily wired into the tortuous LCx

iFR initially 0.89 but repeat after waiting for nitro to fully kick in was 0.92. IVUS also suggested moderate eccentric ostial stenosis and 62% mid stenosis



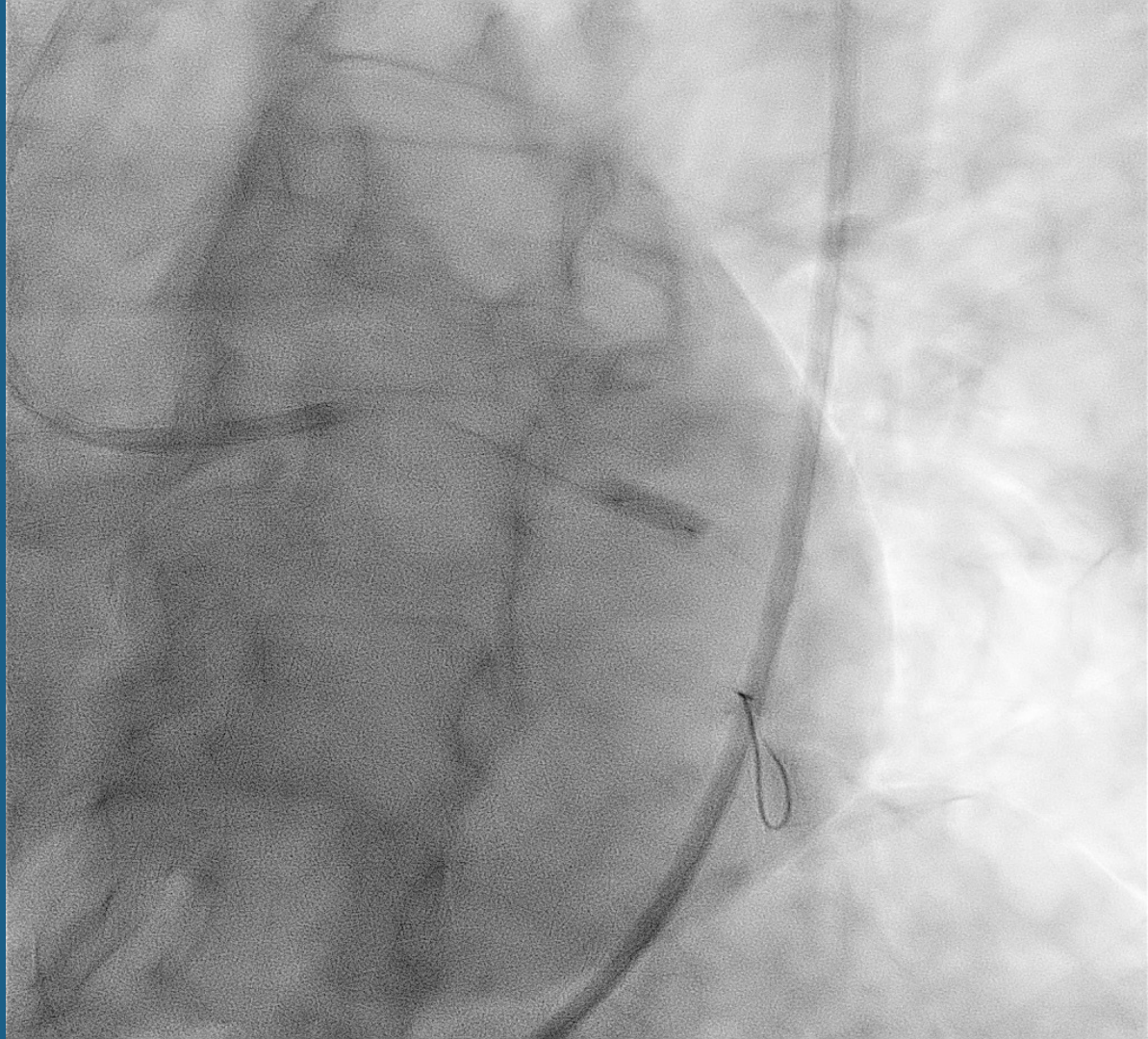
Case 2:

Stented with a 3.0 x 15 mm
Xience



Case 2:

IVUS guided post-dilation



Case 2:

Final angio. iFR unchanged at 0.92. May not have changed outcome of the patient with intervention of the LCx.

Perhaps treated the interventionalist.

