

Cardiac CT Knows Where Chronic Total Occlusion Entry Is.

CCTI Conference

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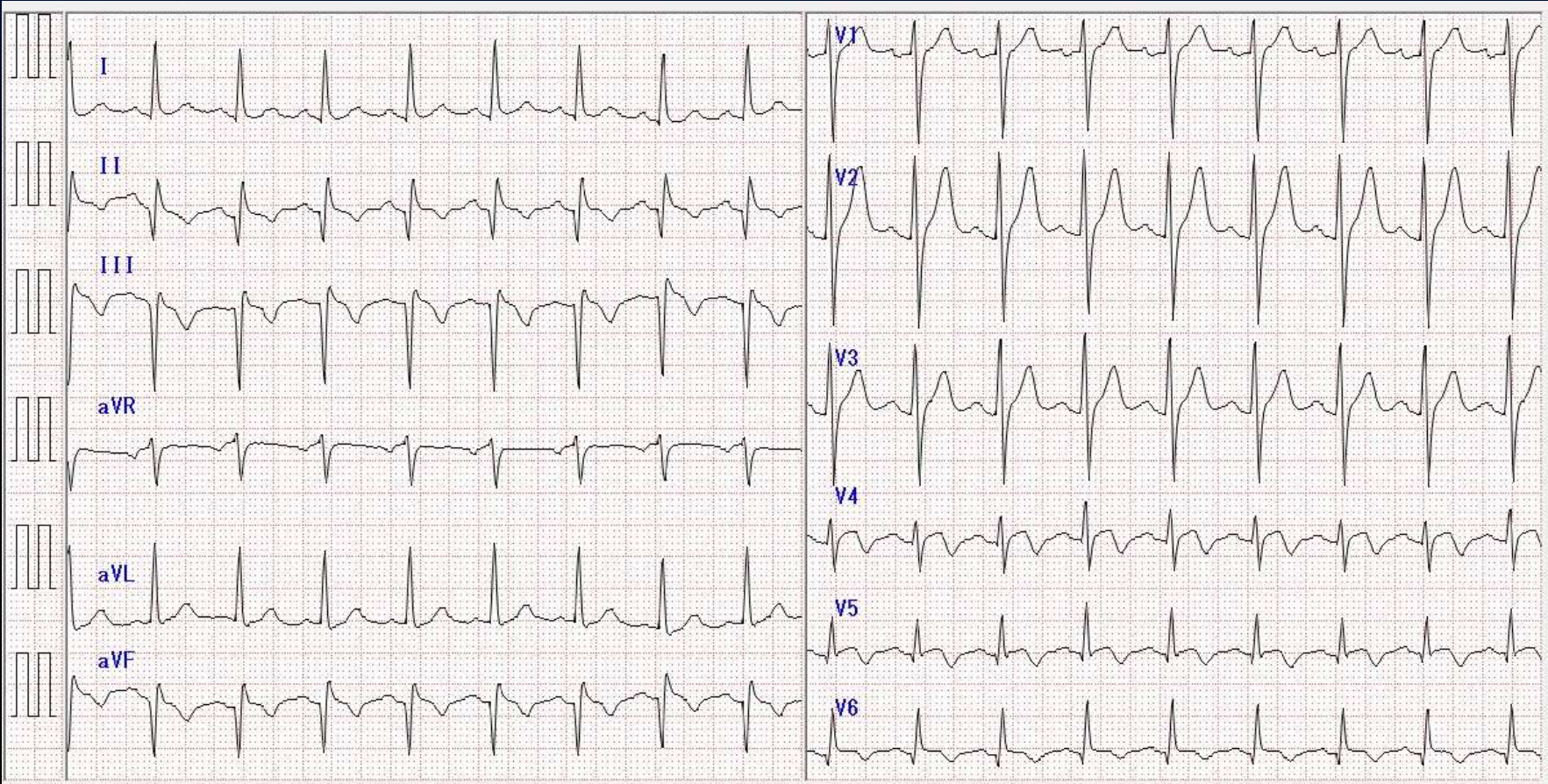
Best Performance of Cardiac CT

Working group

Case

- ✓ 72 y.o. male
- ✓ This patient had silent myocardial infarction. He had cholecystolithiasis and cholecystitis, and was planned to be performed cholecystectomy by surgeon. QS pattern and negative T wave in II, III, aVF in ECG and decreased LV wall motion and wall thinning of inferior in preoperative examination.
- ✓ Coronary risk factor: past smoking

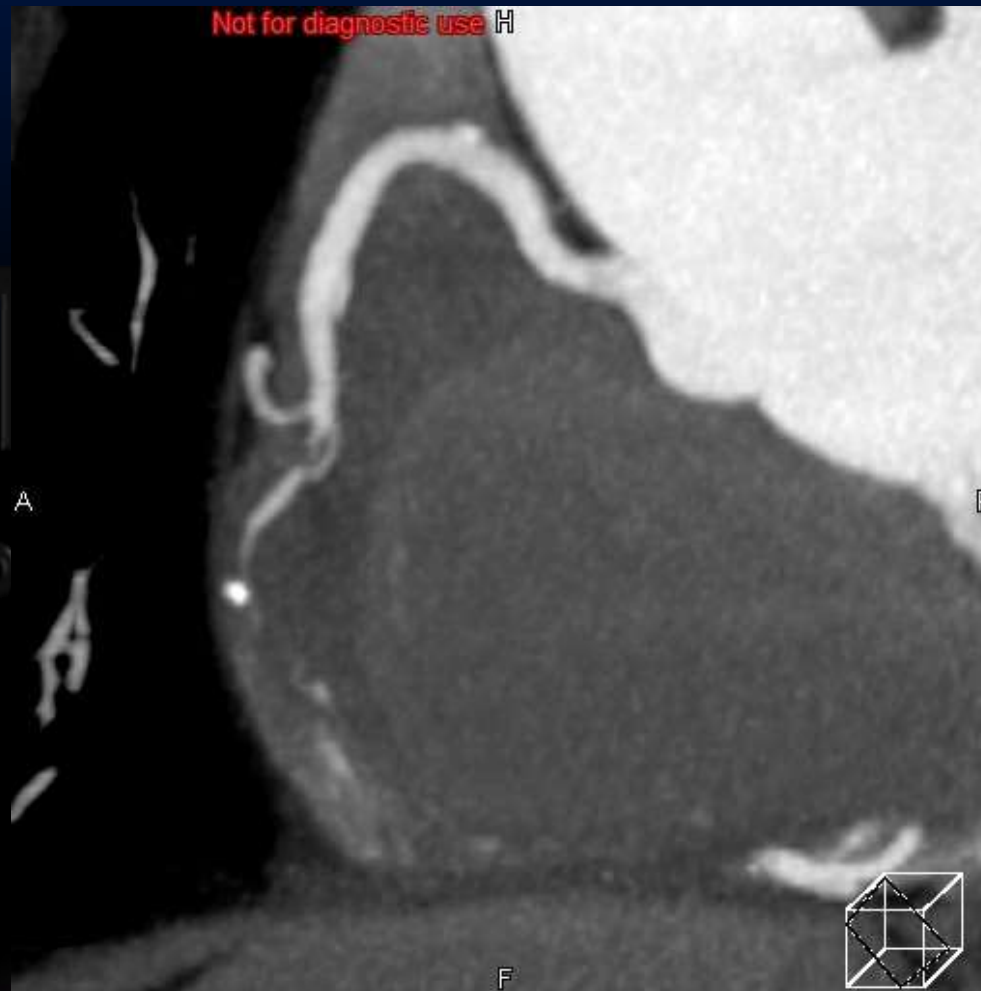
ECG



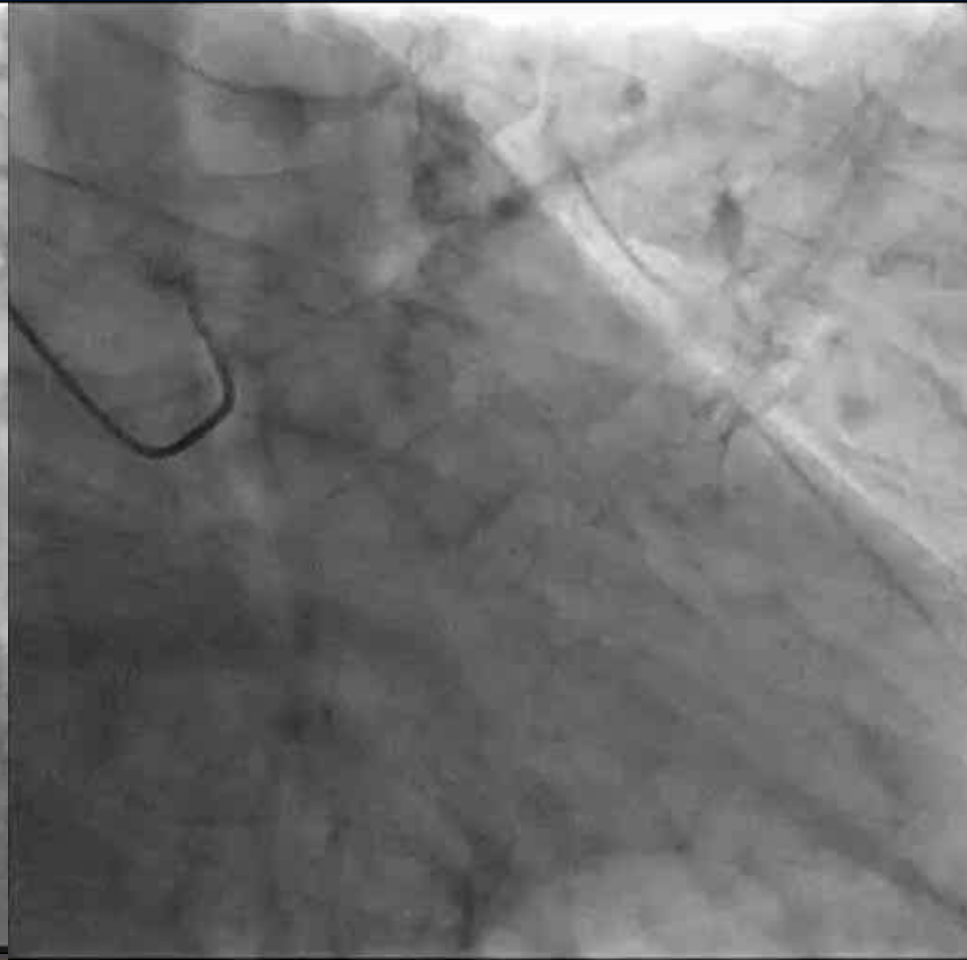
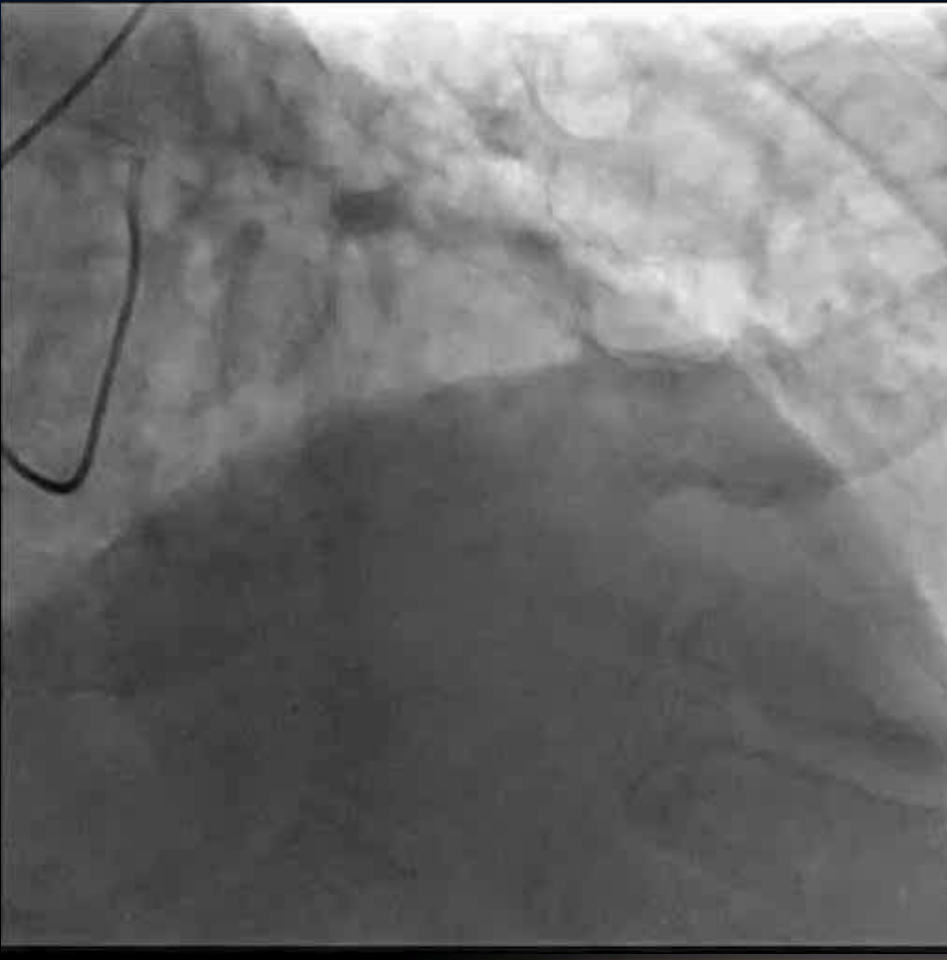
UCG



Cardiac CT



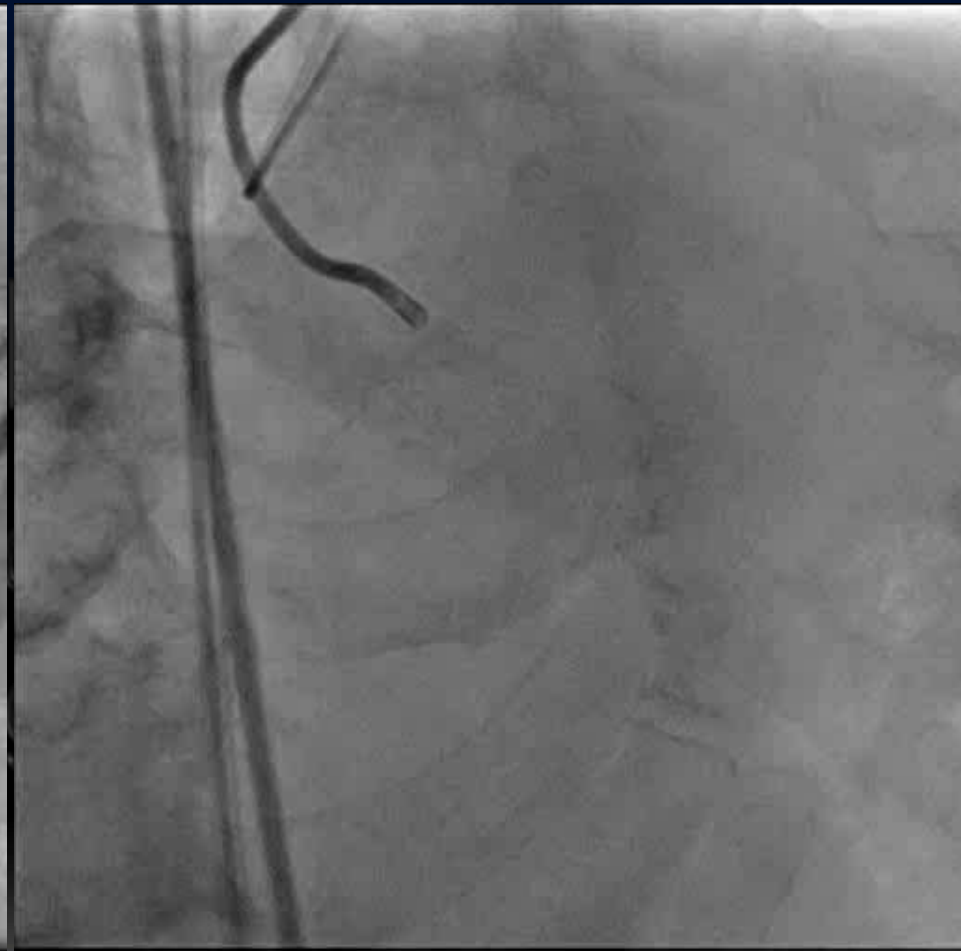
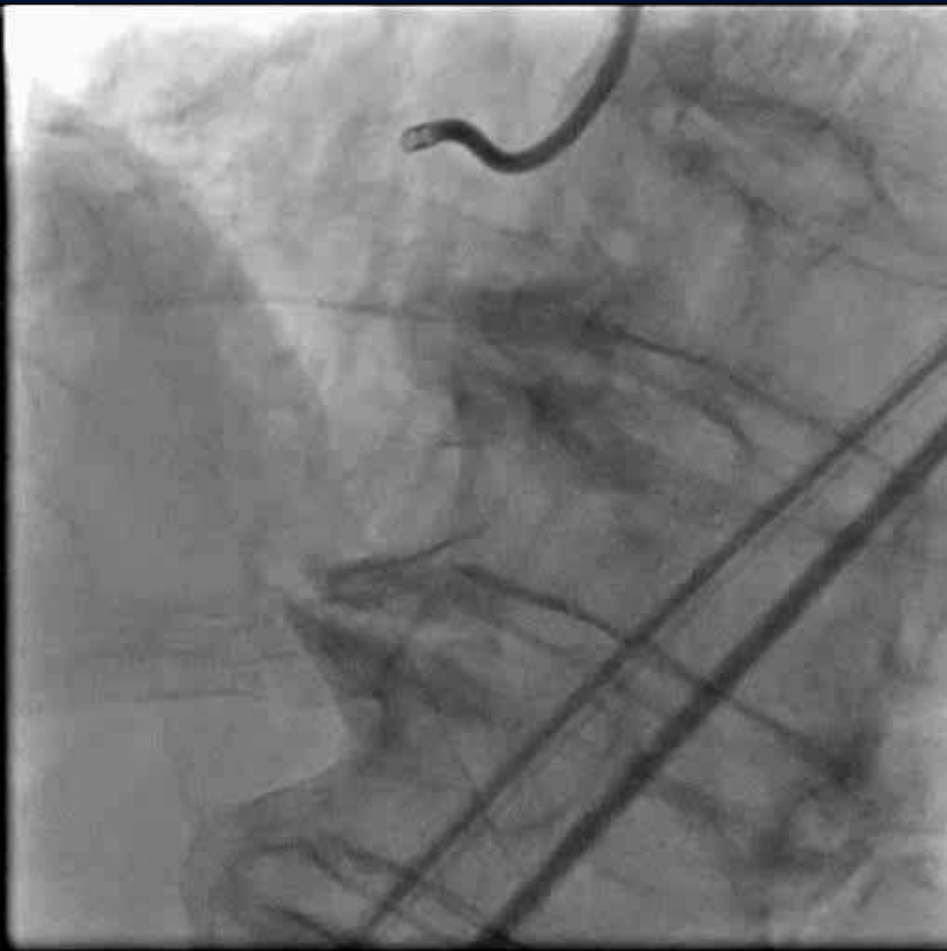
CAG LCA



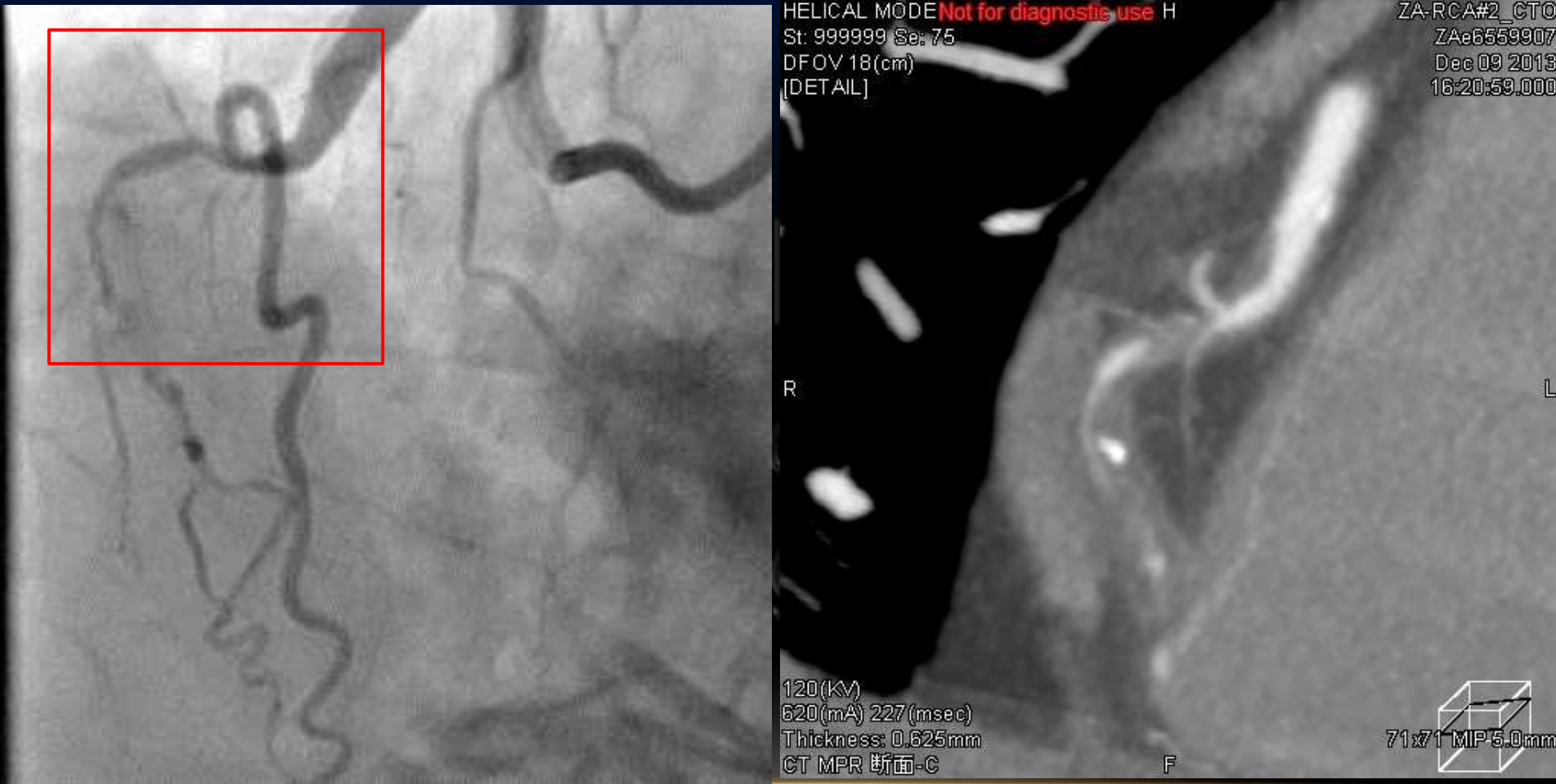
Control CAG



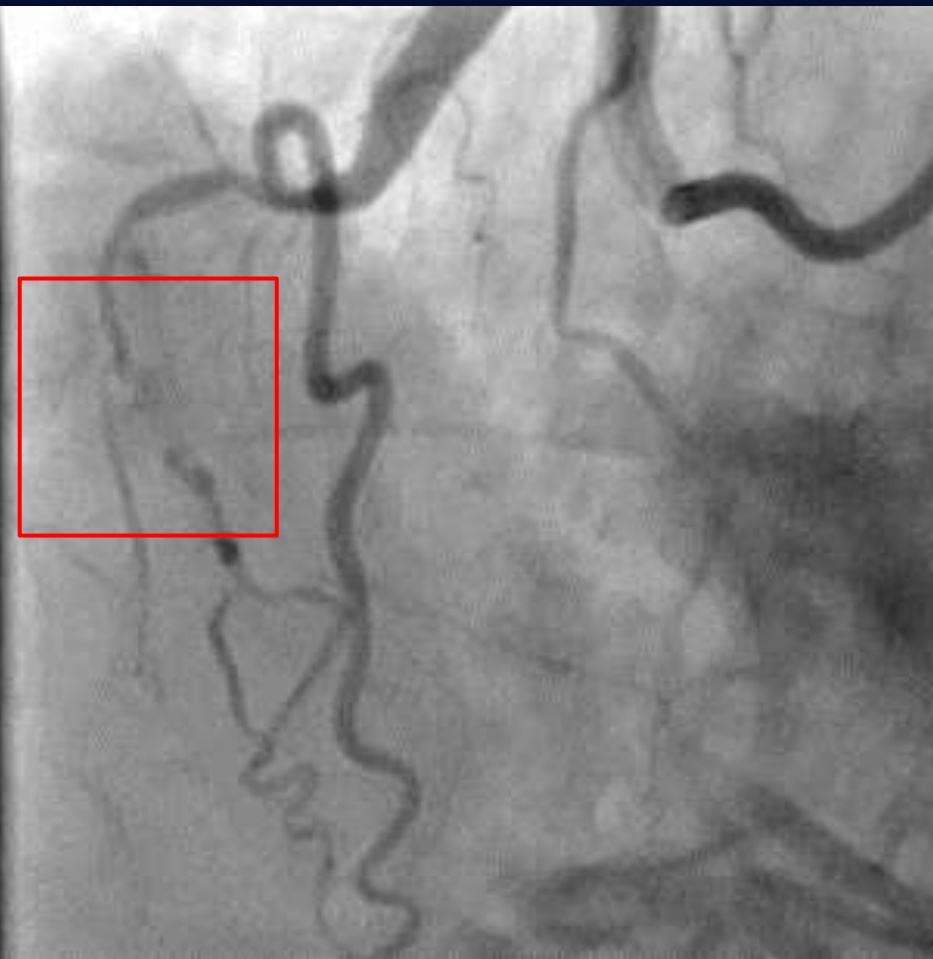
Control CAG



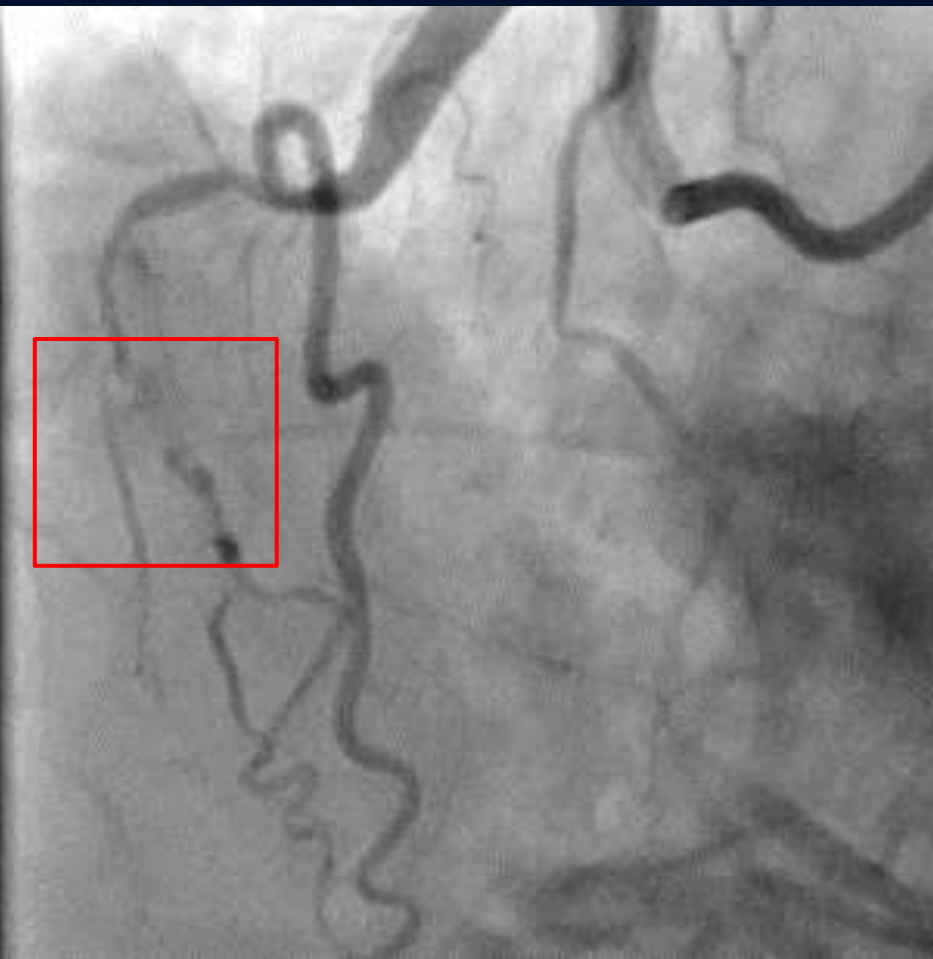
Comparison between CAG and CT



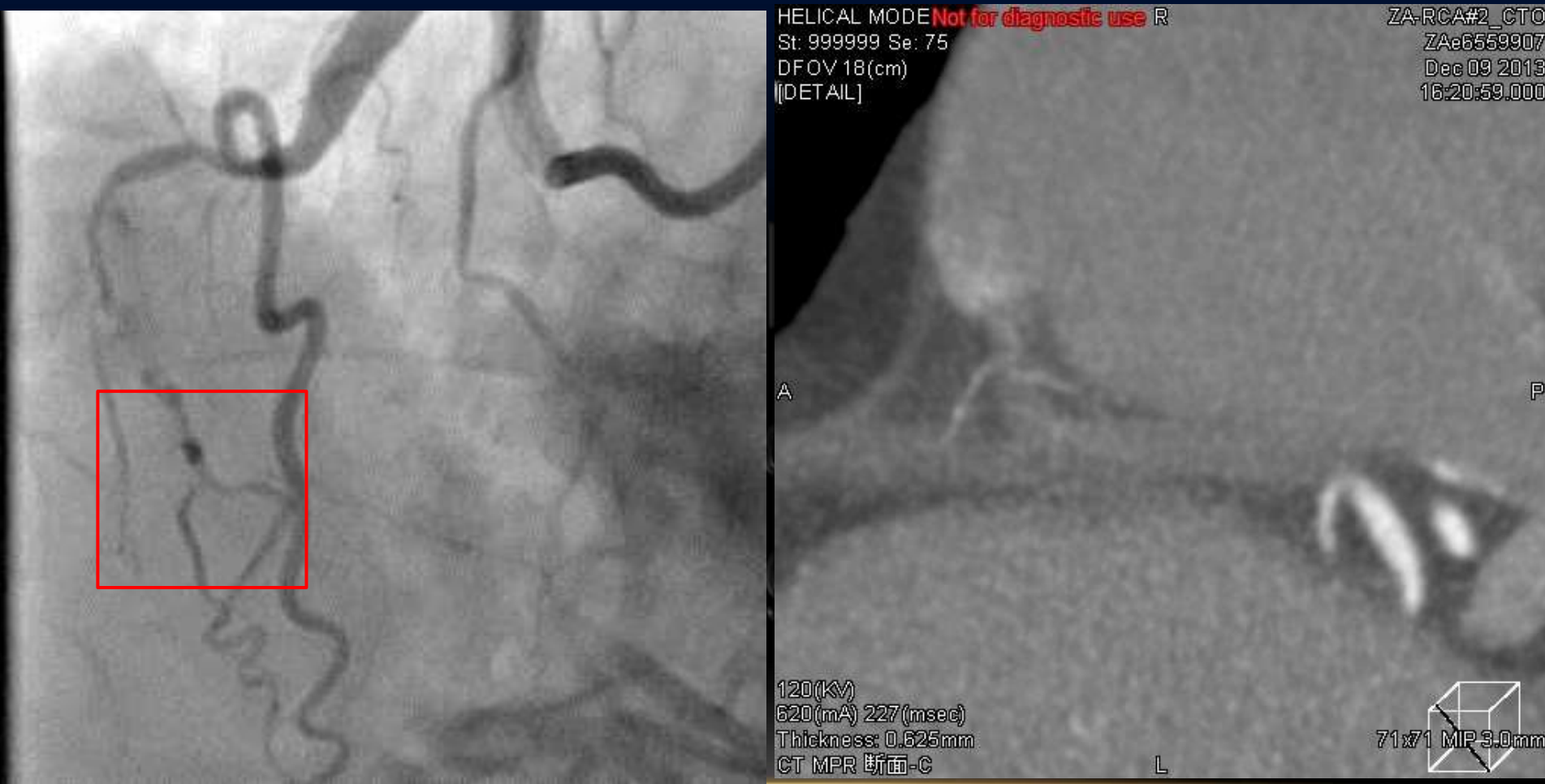
Comparison between CAG and CT



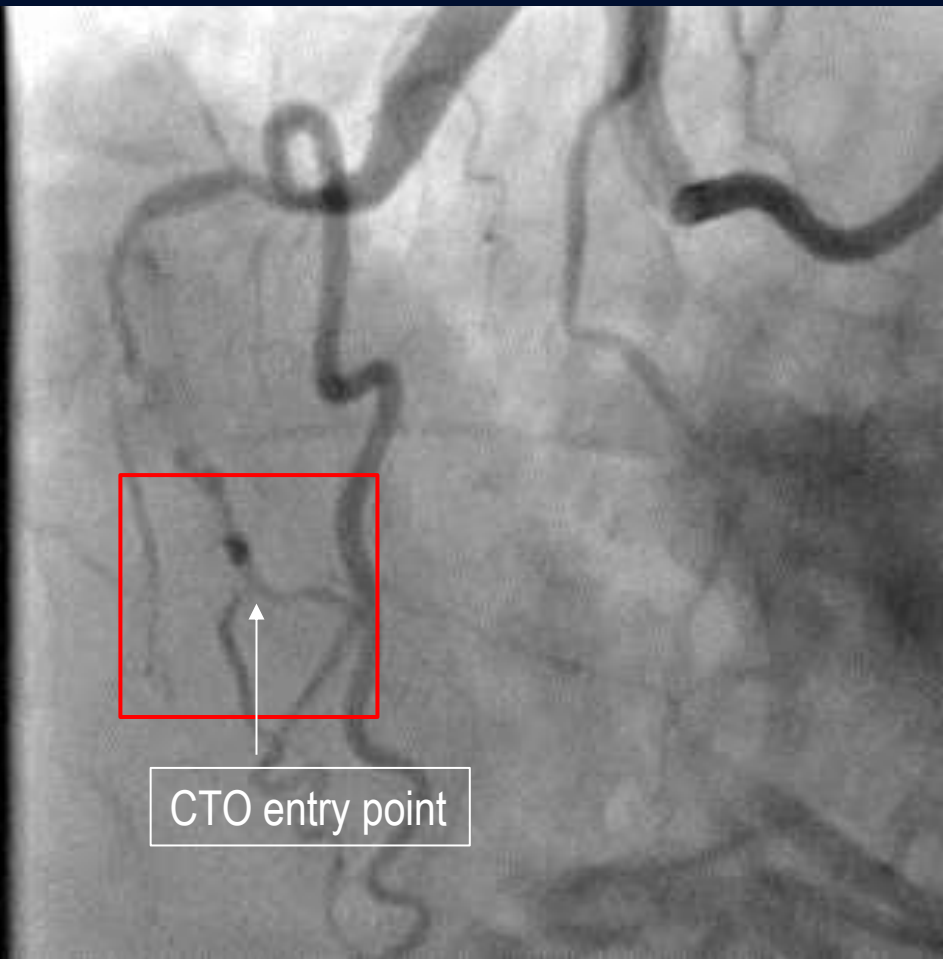
Comparison between CAG and CT



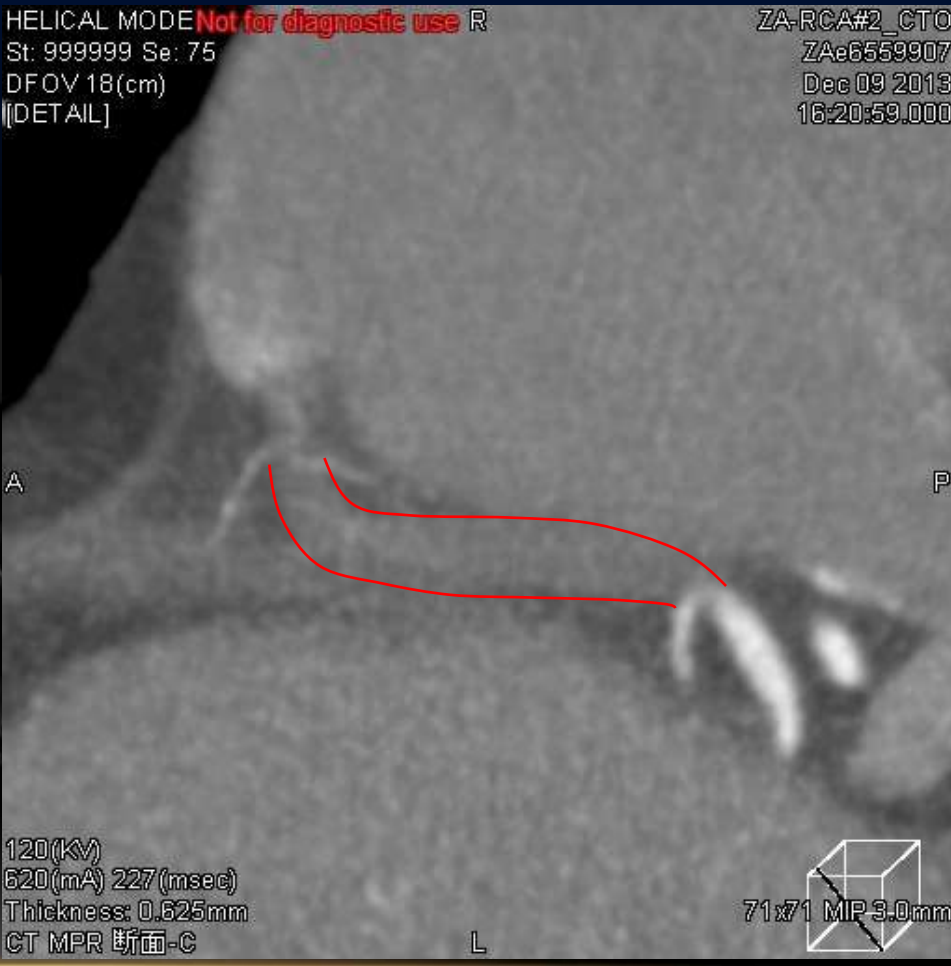
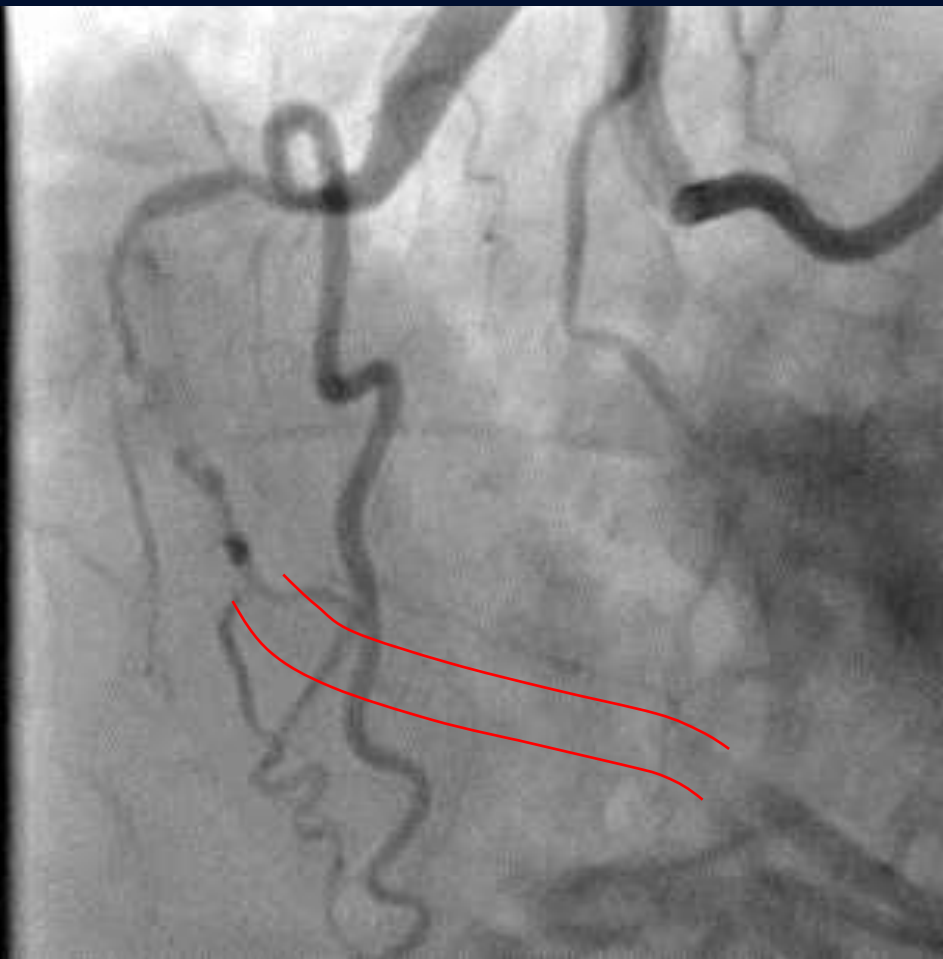
Comparison between CAG and CT



Comparison between CAG and CT



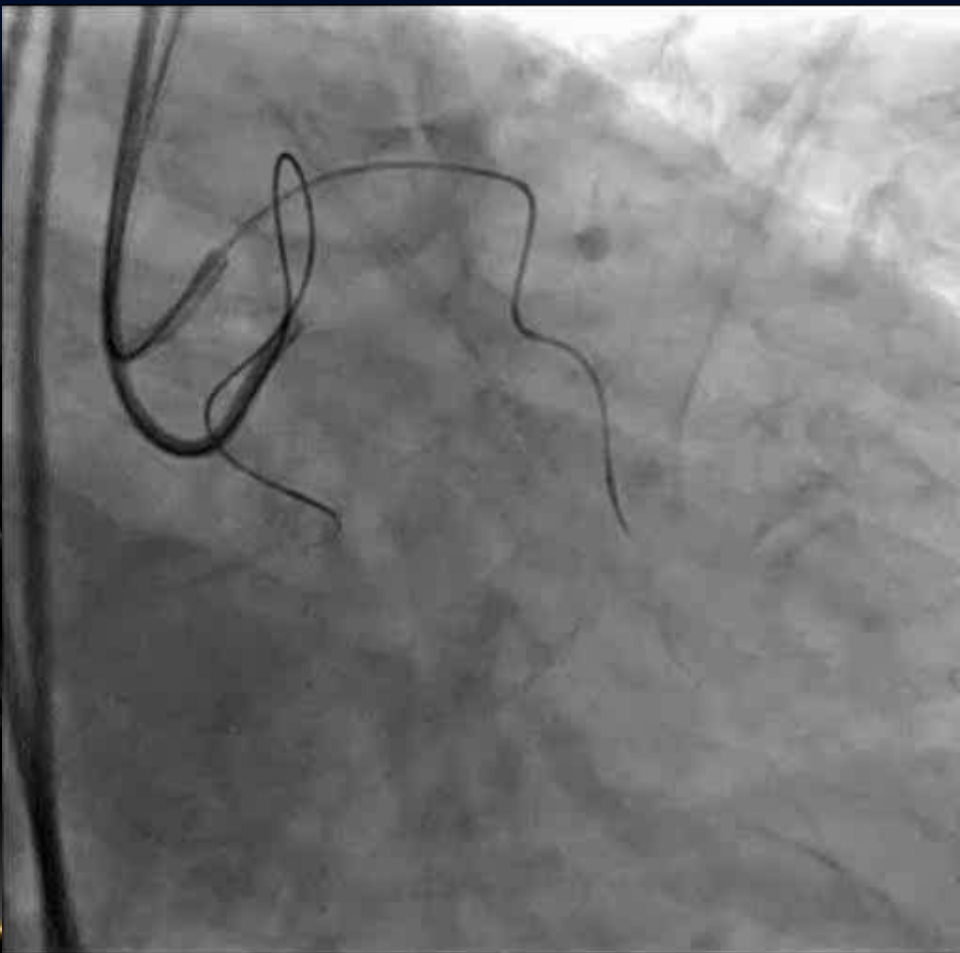
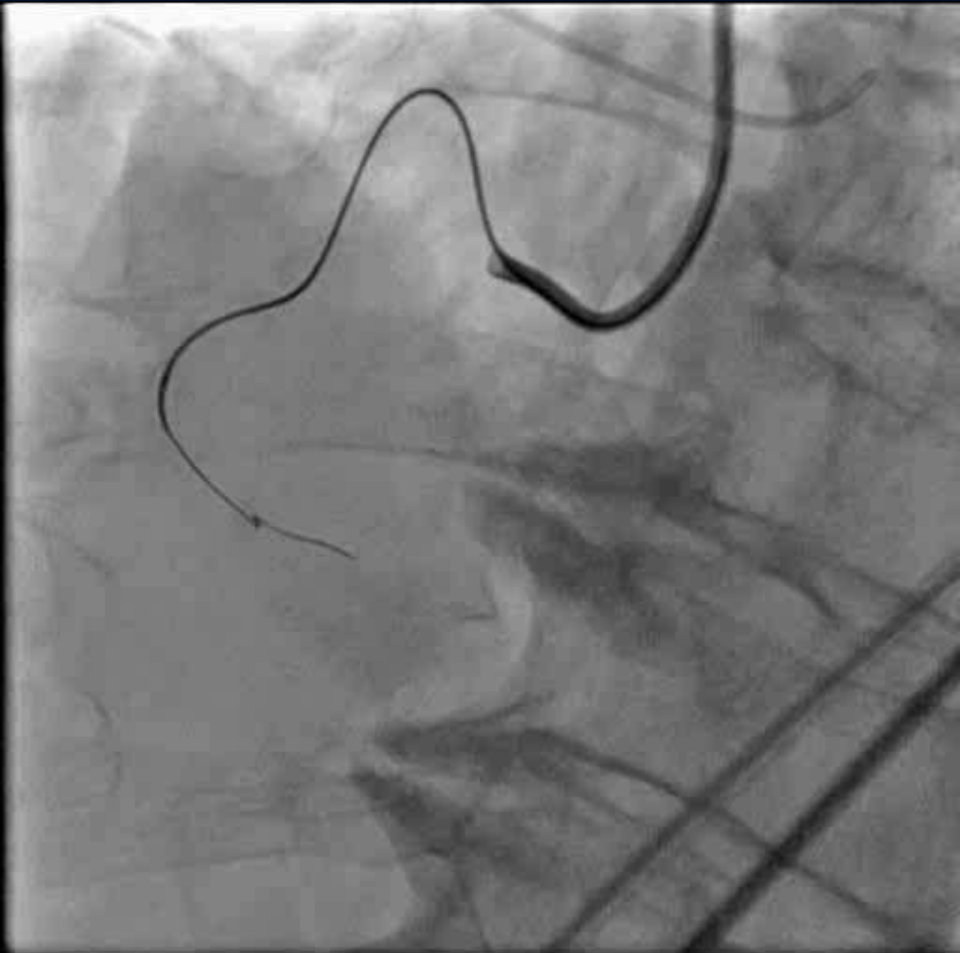
Comparison between CAG and CT



Antegrade and Retrograde approach

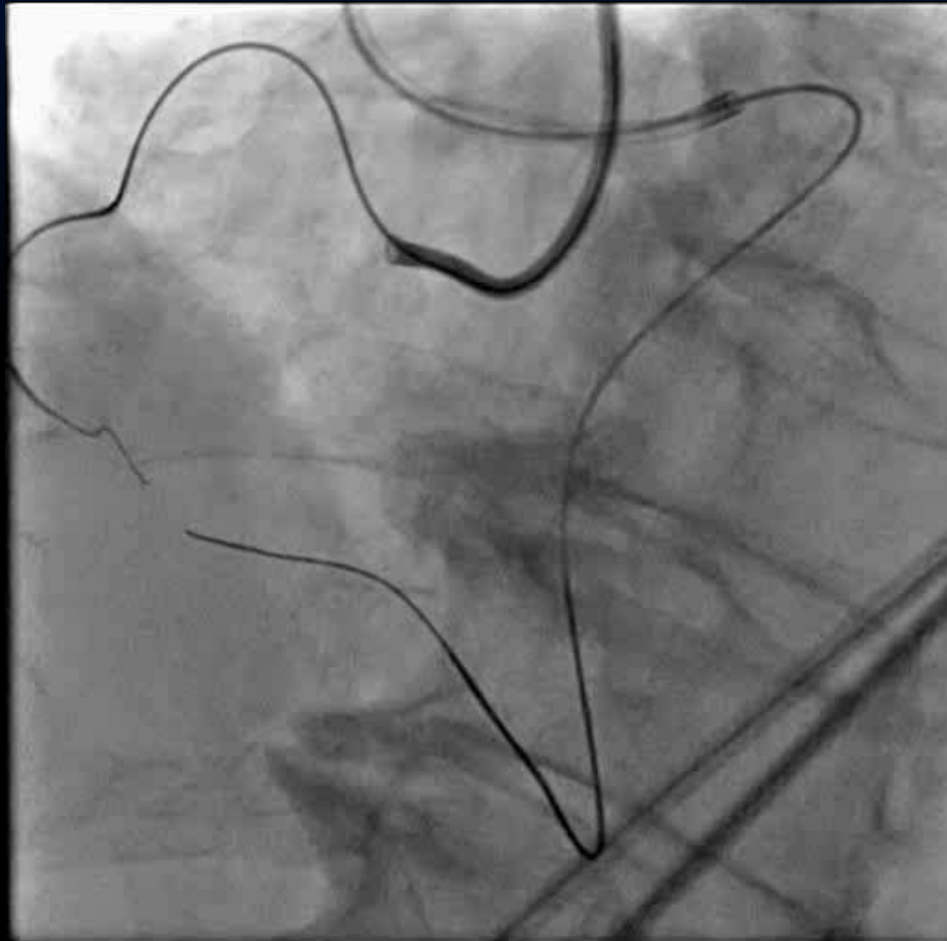
Antegrade: XT-R with 7Fr. AL1

Retrograde: 7Fr. QL4

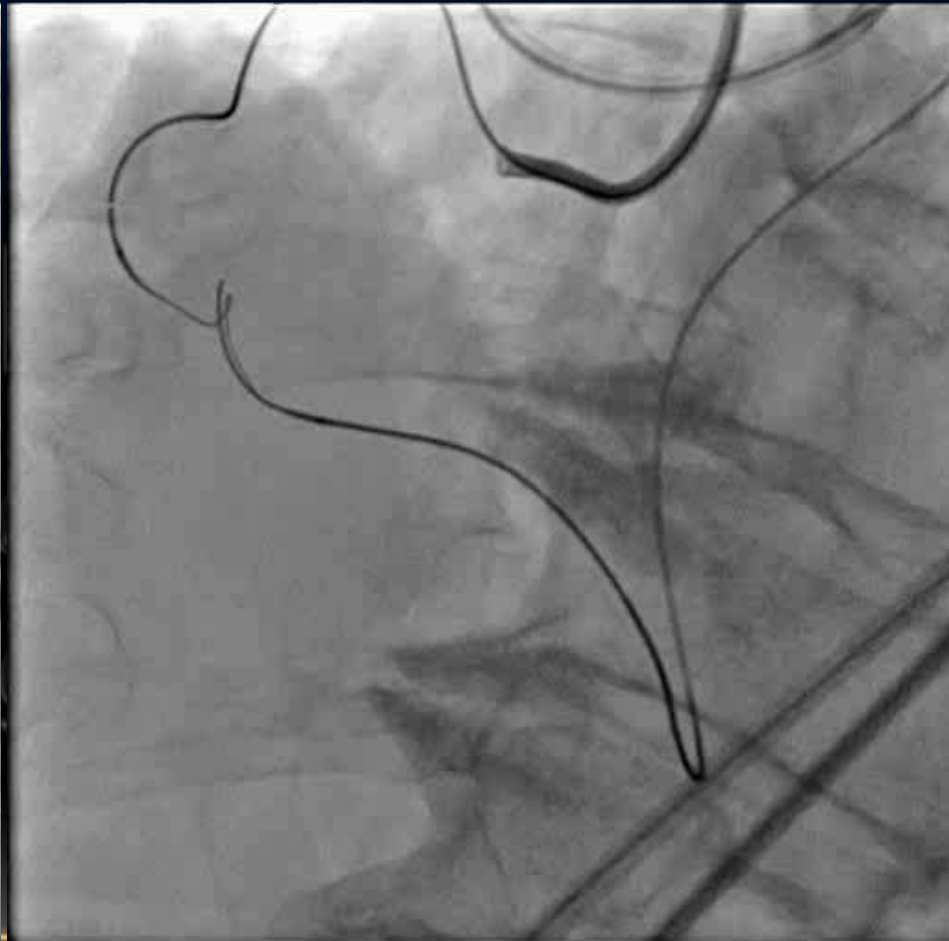


Retrograde approach

Retrograde: Ultimate Bros 3

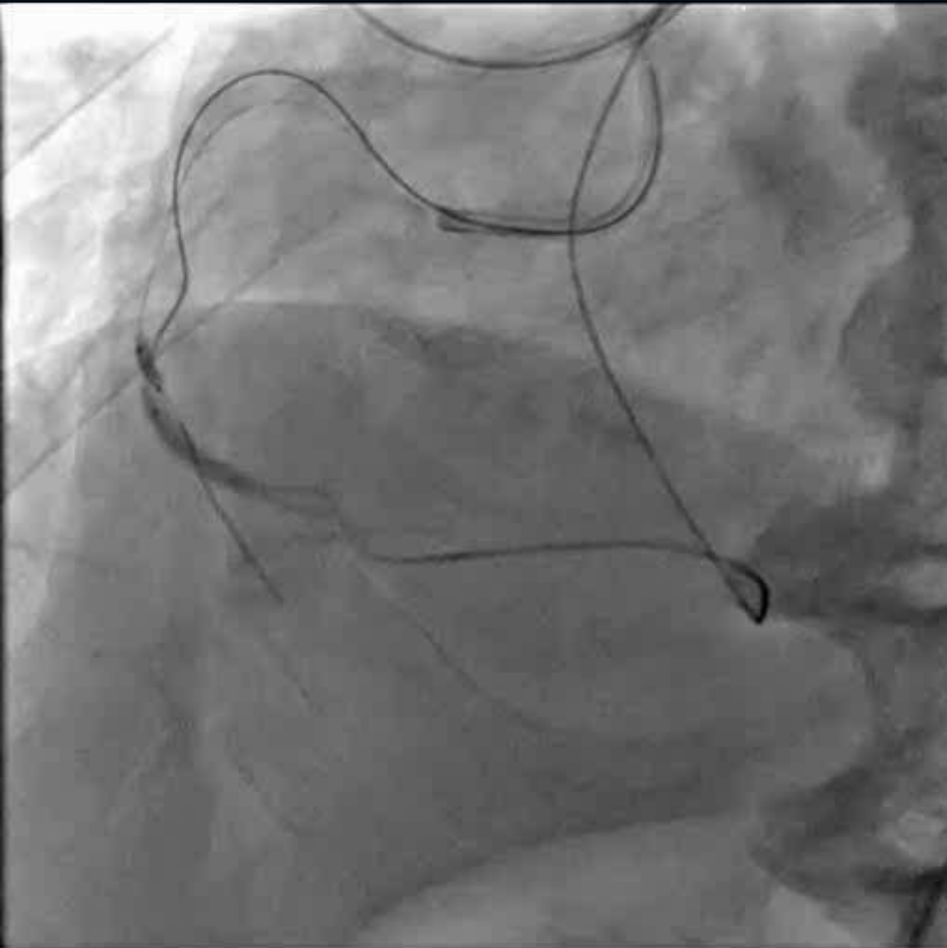


Retrograde: FielderFC

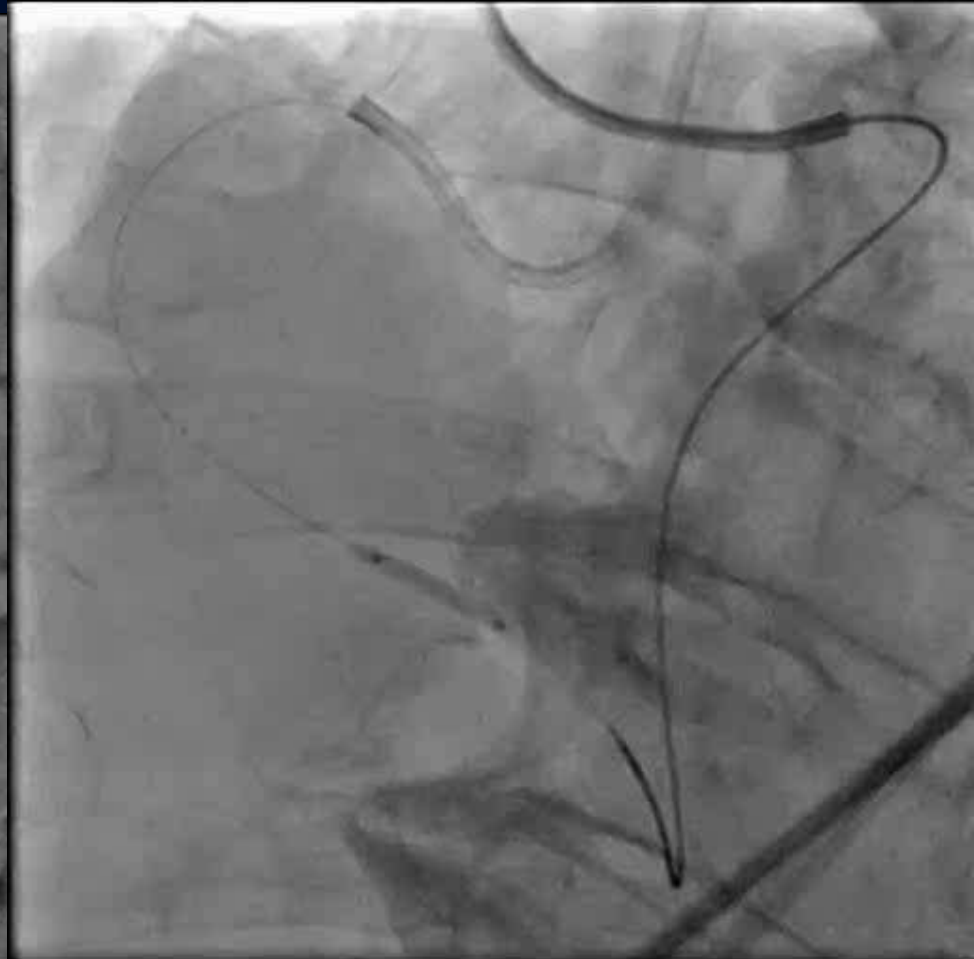


Reverse CART and Externalization

Reverse CART with 3.0mm balloon

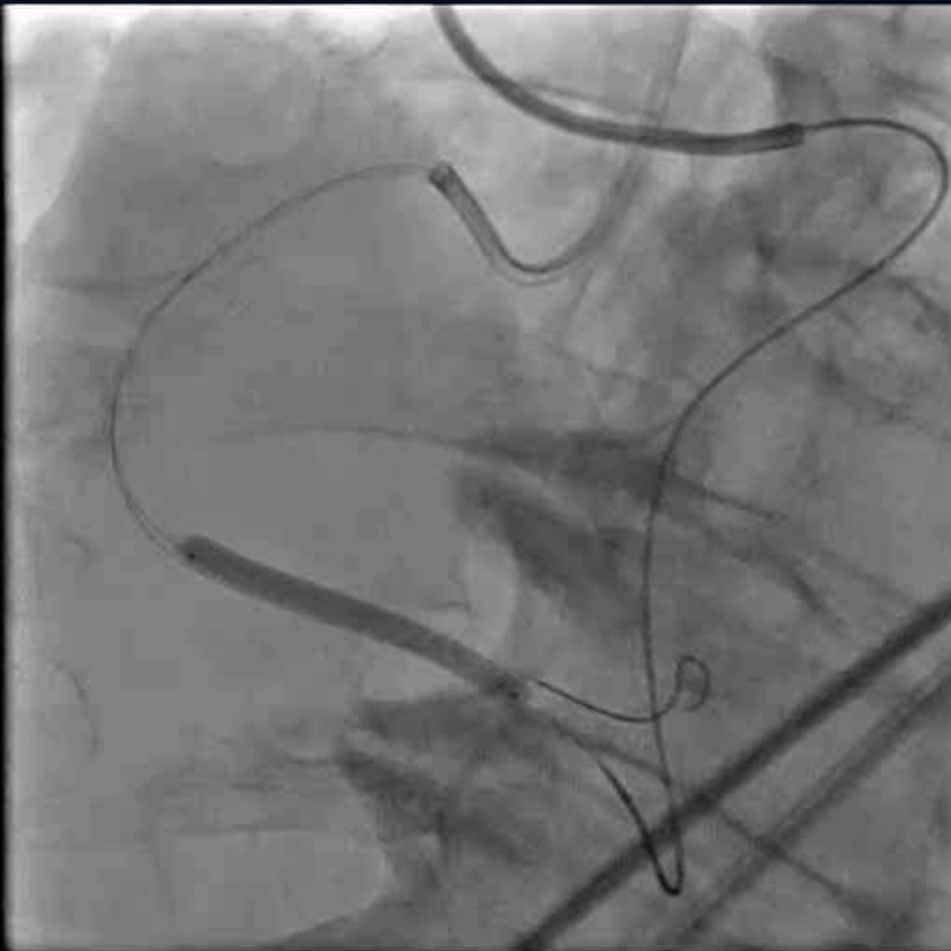


Pre dilatation with 3.0mm balloon

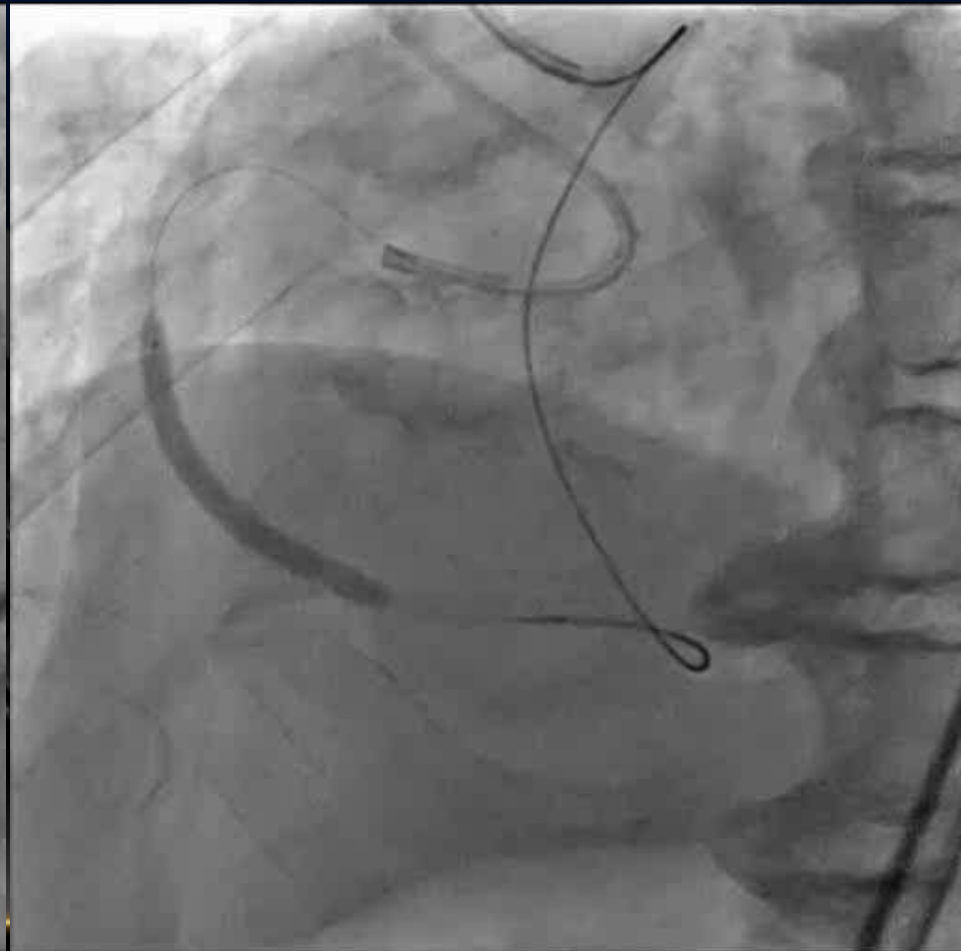


Stenting

Promus Element 3.5*38mm

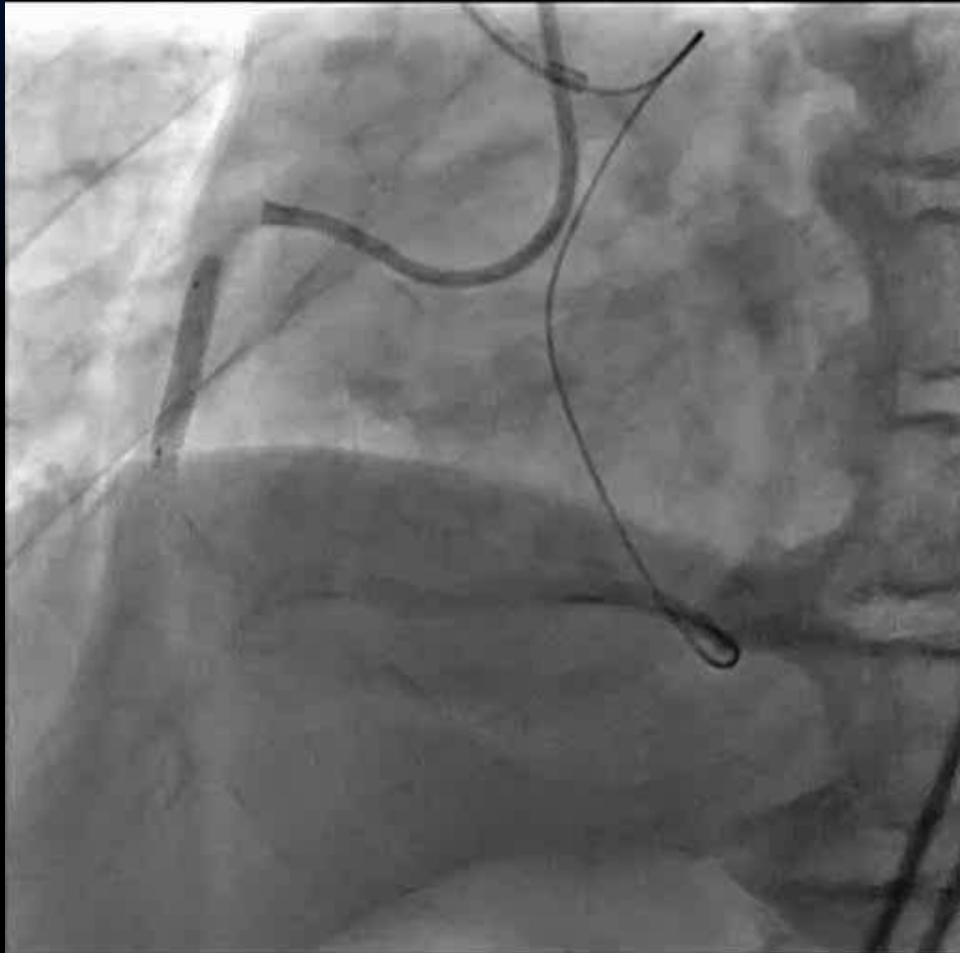


Promus Element 3.5*38mm

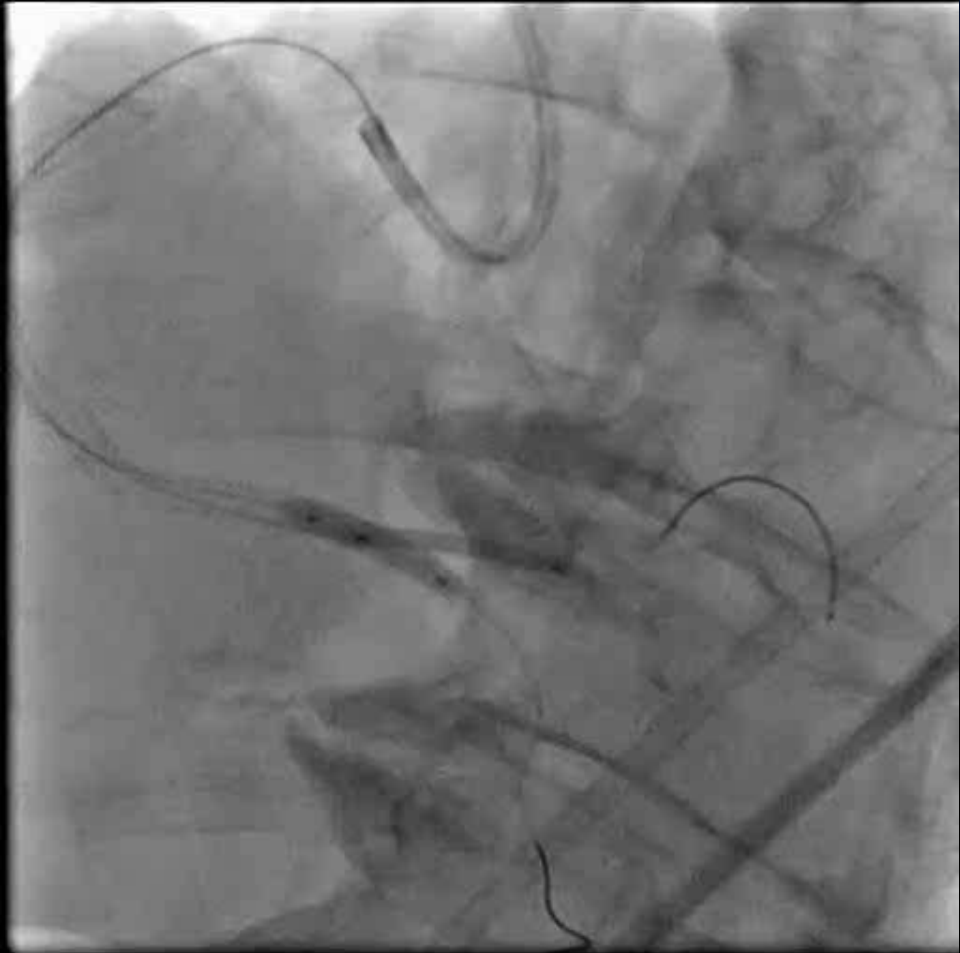


Stenting and KBT

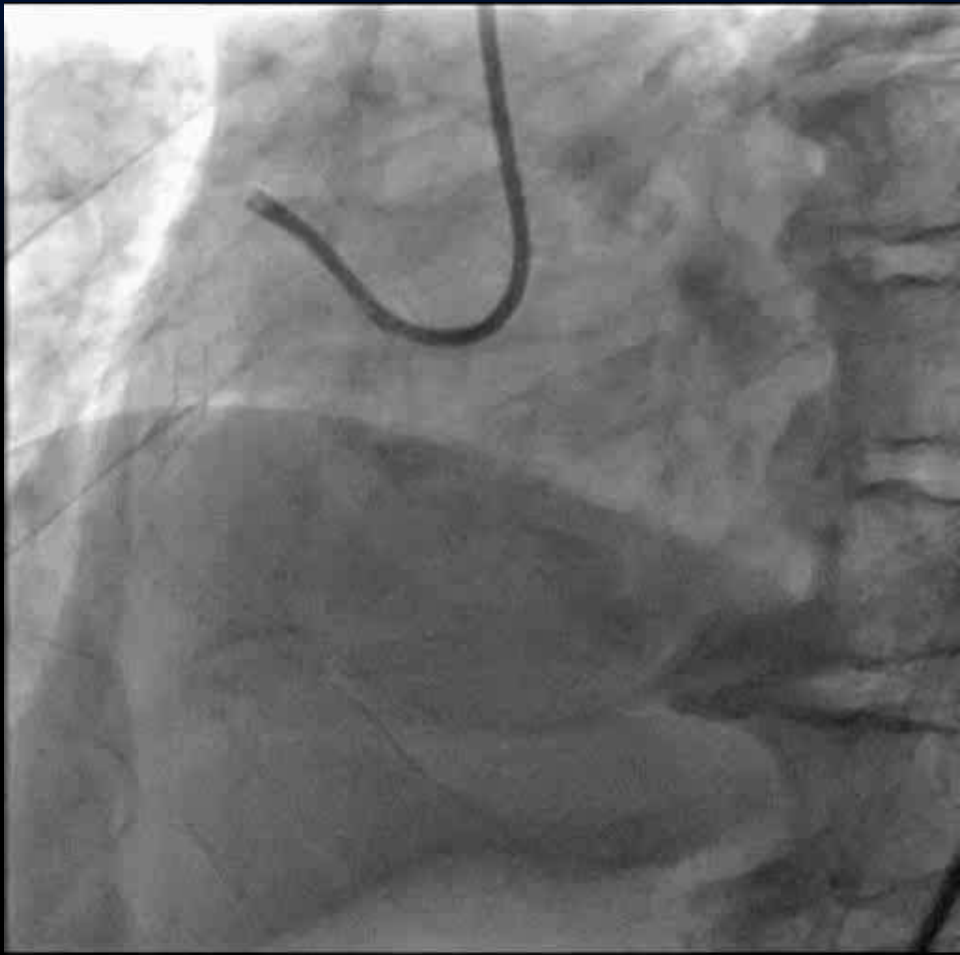
Promus Element 3.5*20mm



KBT 2.0/3.0mm balloon



Final CAG



Summary

- ✓ CTO entry point was not identified by CAG and antegrade wiring seemed to be difficult.
- ✓ Cardiac CT visualized CTO entry point clearly. CTO entry had no stump and it was realized early on that antegrade wire could not enter into CTO segment and retrograde approach was needed.
- ✓ PCI became successful by retrograde approach and reverse CART.

Conclusion

- ✓ CT information is very helpful to make PCI strategy of complex CTO.
- ✓ Deep CT evaluation will make result of CTO PCI better.

Best Performance of Cardiac CT
Working group