

# Intervention for Right Coronary Artery Chronic Total Occlusion with Moderatelydiseased Left Main Coronary Artery

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#### Brief history

- 66 year-old male
- Admitted to our hospital for unstable angina around 1 month prior to this admission
- Risk factor: hyperlipidemia.

Serum creatinine: 0.9 mg/dl



Patient ID: B694954

2018/04/07 11:23:25

Sinus rhythm

Order Number: 201804070564

Reviewed By: 9420劉怡凡(中心專醫字S1365號), Date: 2018/04/16 15:14:01

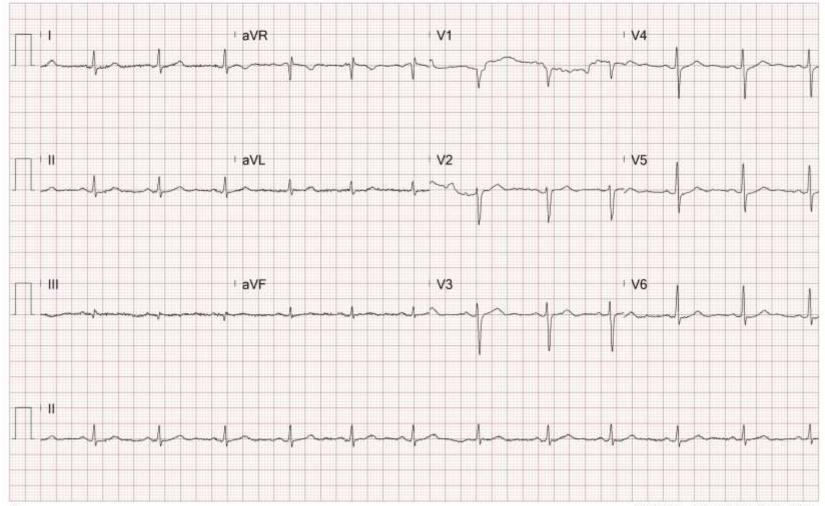
Age: 65 Years Sex: M Name; 林揚龍 Vent rate: 71 BPM PR int: 152 ms QRS dur: 86 ms

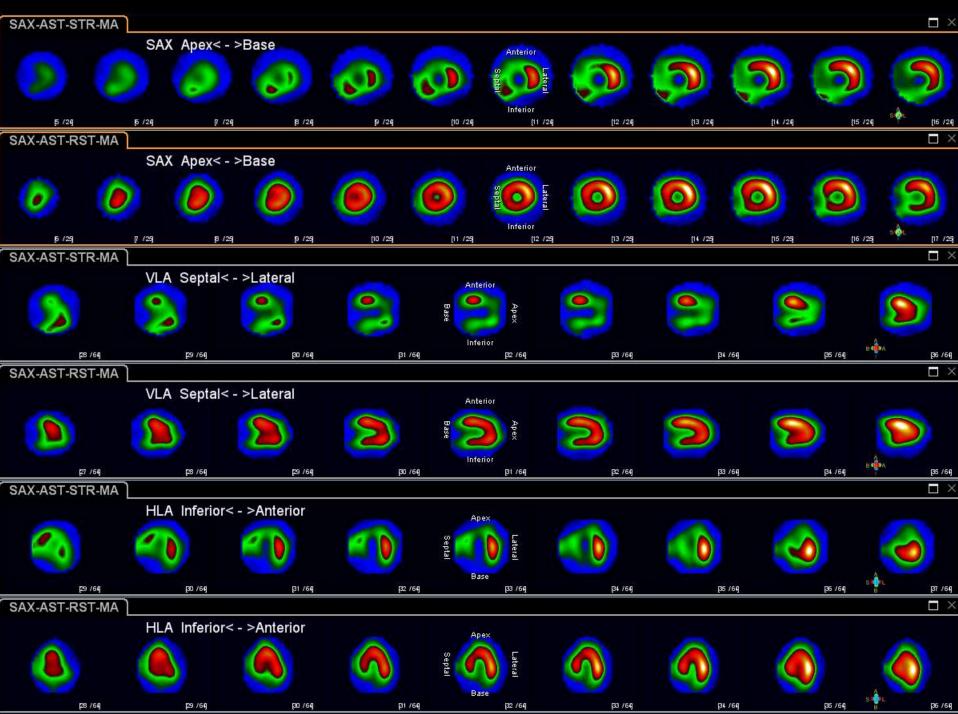
Comment: 1191

QT/QTc: 384 / 407 ms

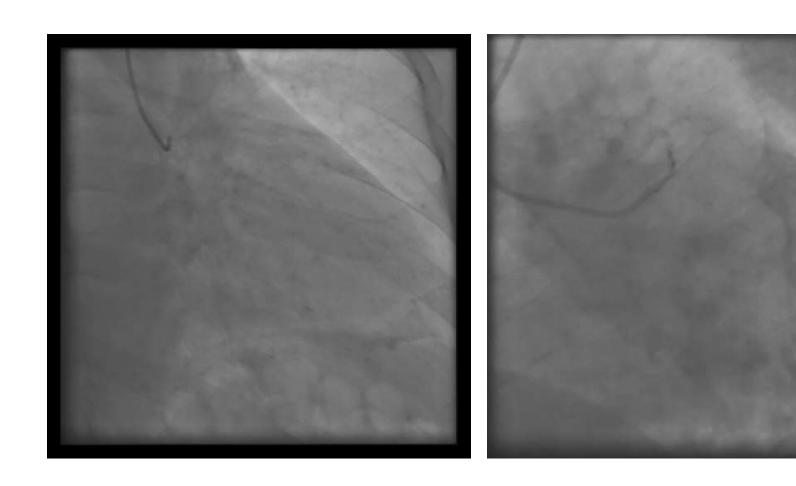
P-R-T axes:

43 33 25

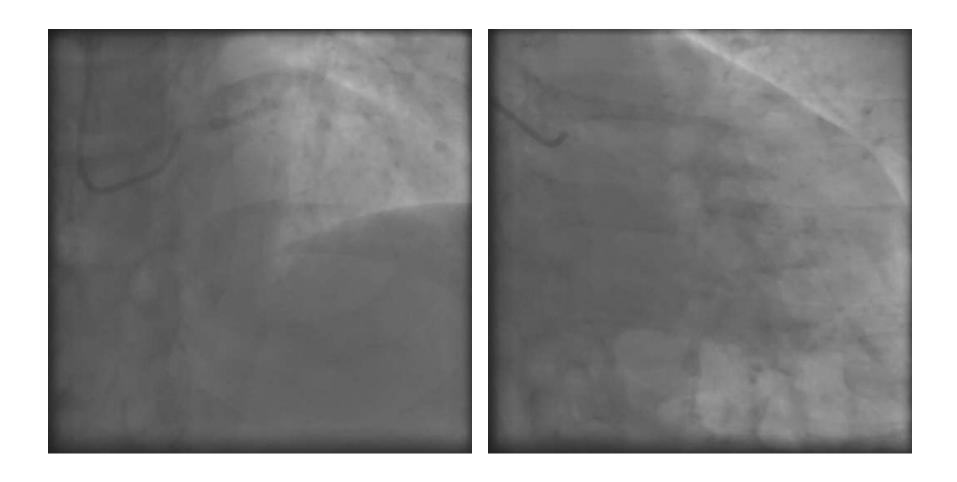




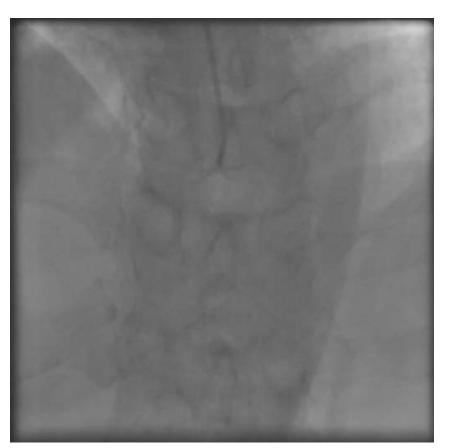
## Coronary angiogram (I)

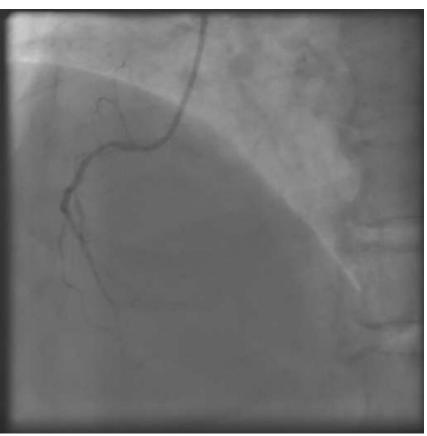


## Coronary angiogram (II)



## Coronary angiogram (III)

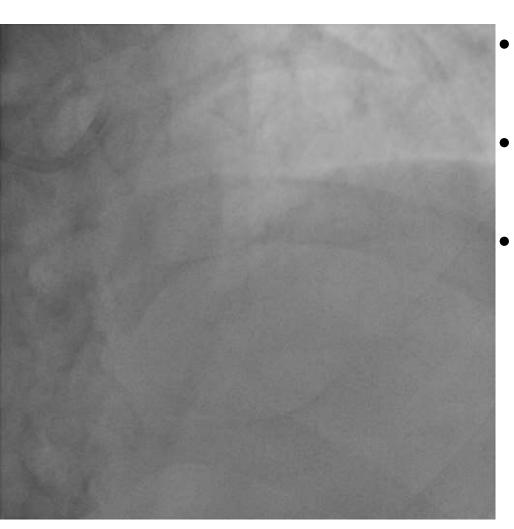




#### Revascularization options

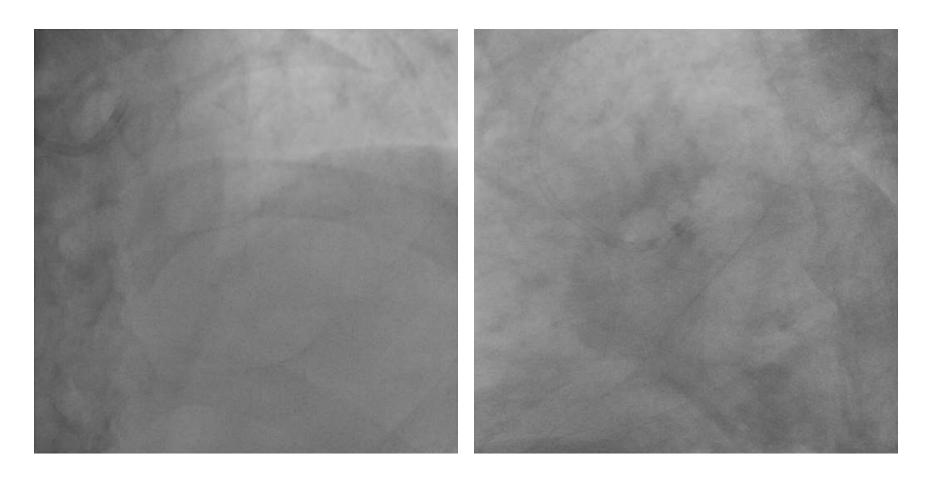
- Consulted cardiac surgeon, and the patient refused CABG
- Staged PCI
   LAD first, then RCA CTO, maybe LMCA

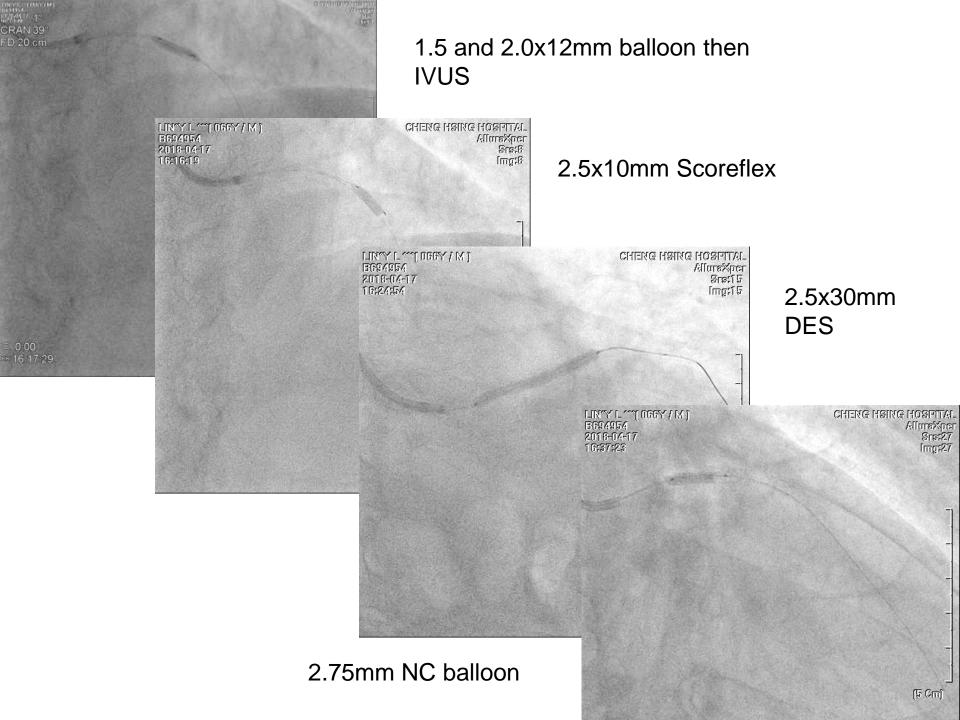
#### PCI for LAD



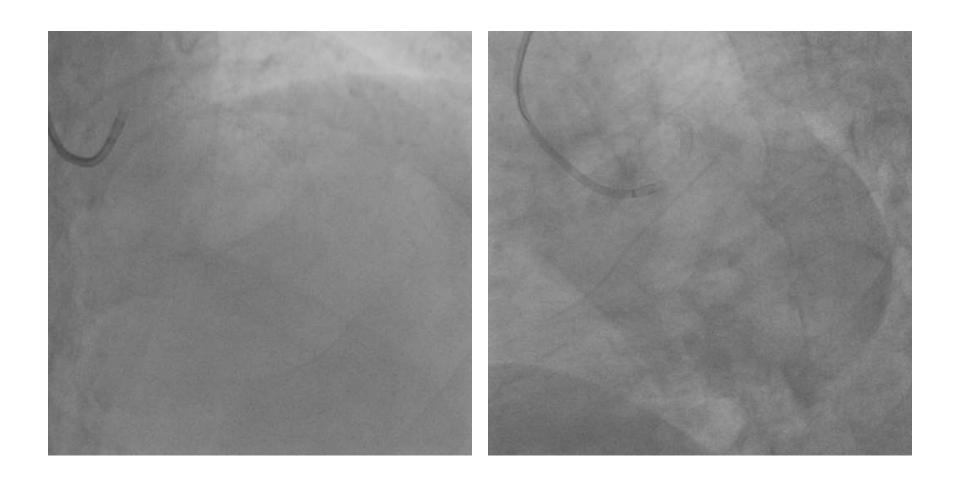
- Transradial, 6F sheath
- 6F JL3.0 with side holes
- Pilot 50 wire

## Transradial approach IVUS-guided





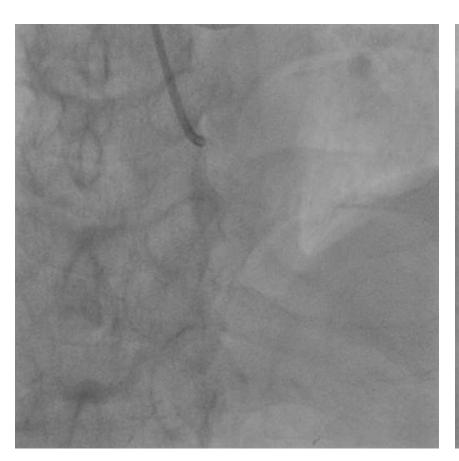
## Final angiogram



#### 2<sup>nd</sup> PCI

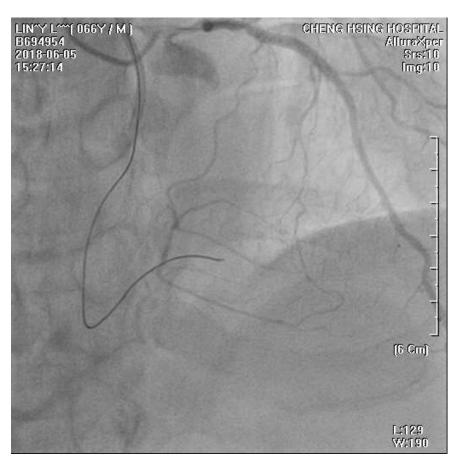
- For RCA CTO
- Bilateral radial artery
- 6F JR4 guiding catheter
- 5F JL3.0 diagnostic catheter
- Antegrade+-retrograde approach

## Coronary angiogram





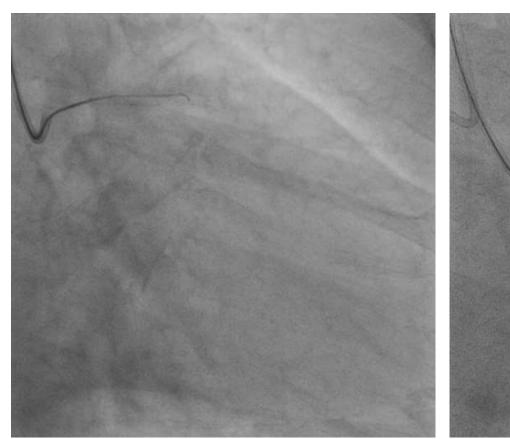
#### Antegrade approach

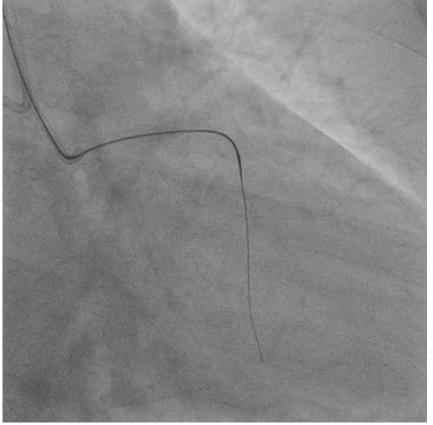


- 1.25x6mm OTW
- Gaia first→ Gaia
   third→ Ultimatebro 3

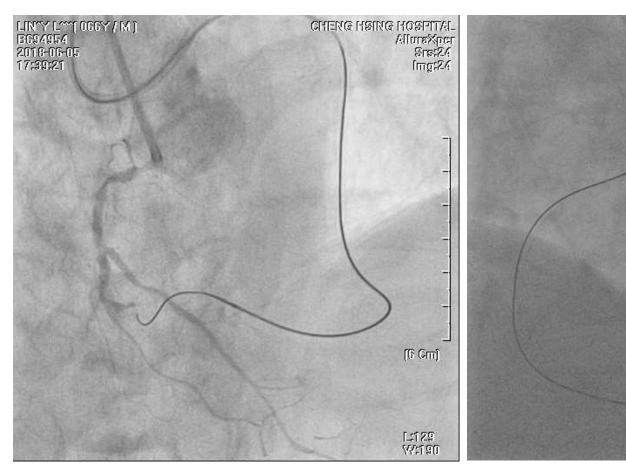
### Retrograde approach

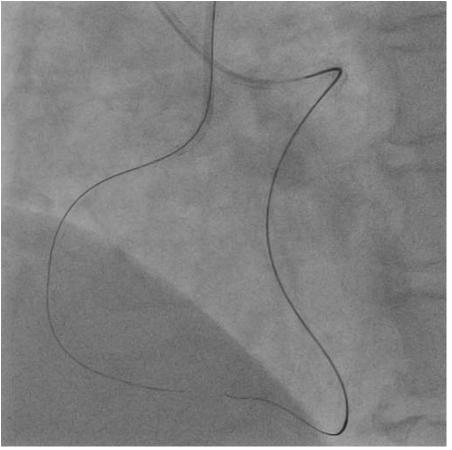
6F JL3.0 150cm Corsair, Sion → Field XTR





#### Retrograde wiring

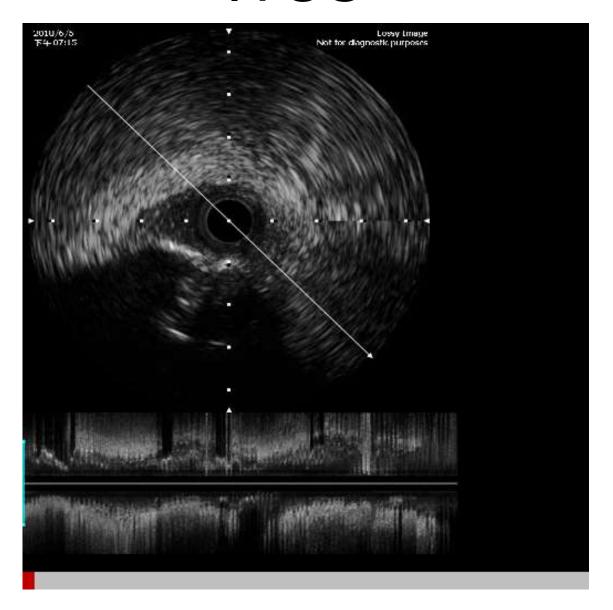




#### 1.5 and 2.5 mm balloon

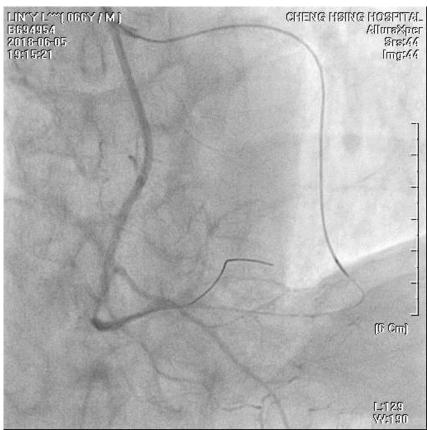


## IVUS



### Wire to PL attempt



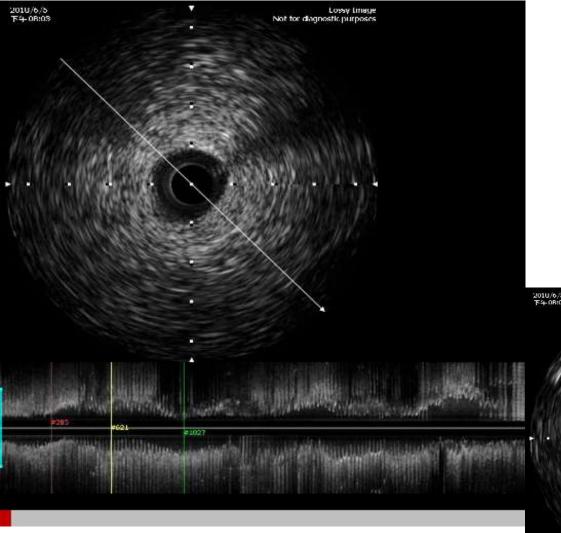




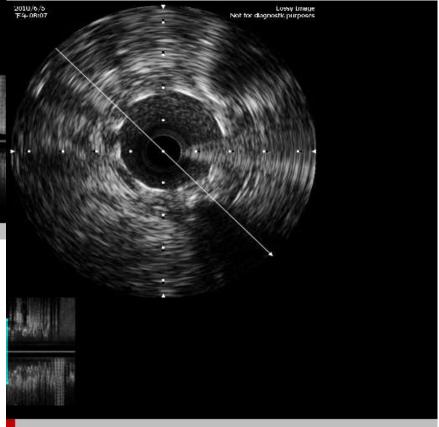
#### Post-dilation

#### 3.5mm NC balloon

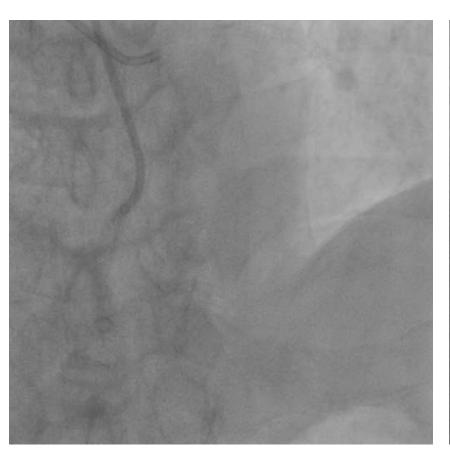




### Final IVUS

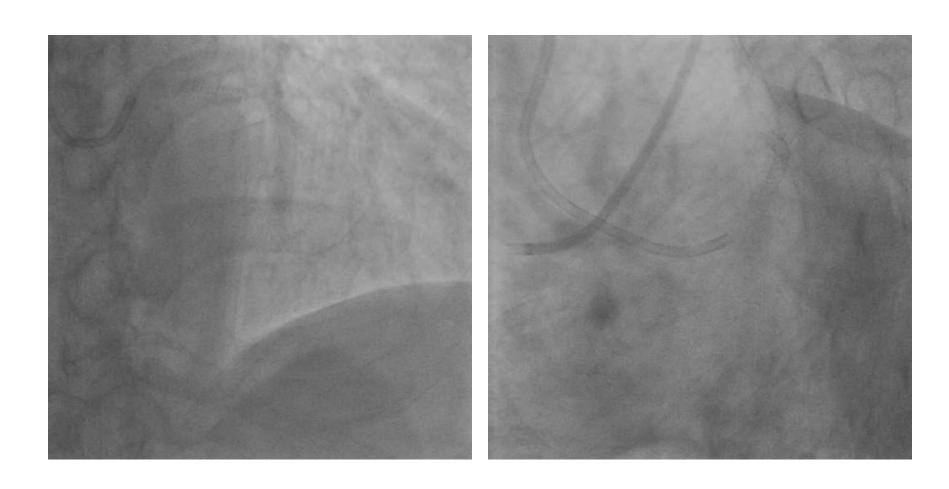


## Final angiogram





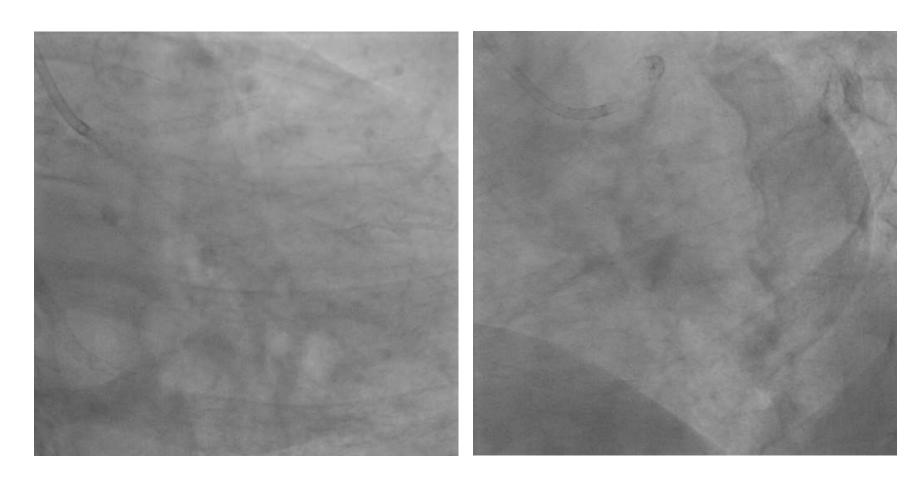
## Final angiogram, LCA



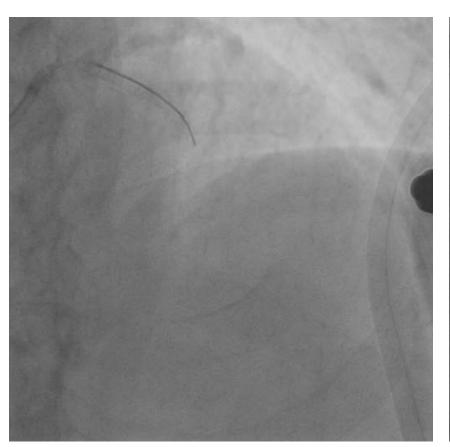
#### Follow-up

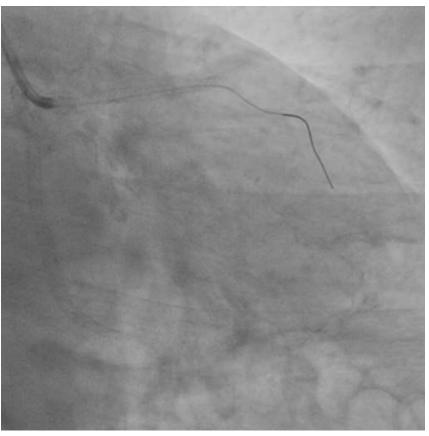
- Patient stated mild effort angina without progression
- Suggest LMCA follow-up

## 3<sup>rd</sup> procedure Coronary angiogram



## Final angiogram 3.5x18mm DES for LMCA





#### Conclusion

- Technical challenging to achieve complete revascularization for concomitant LMCA disease and RCA CTO.
- Intervention for RCA CTO via retrograde approach is feasible even if LMCA is moderately diseased



## Thank you for your attention

