



Innovative approaches to recurrent stent thrombosis

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Conflicts of Interest

Speaker's name : Gunasekaran, Sengottuvelu, Chennai

I do not have any potential conflict of interest

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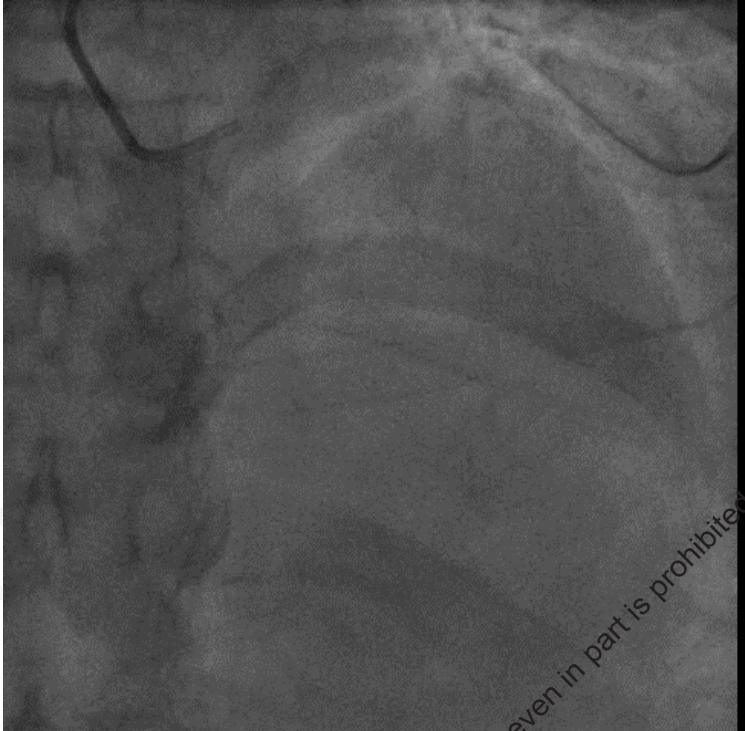
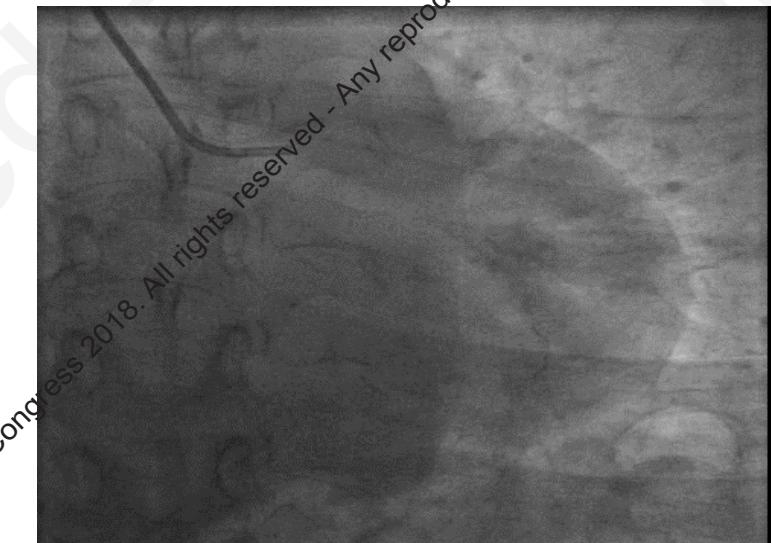
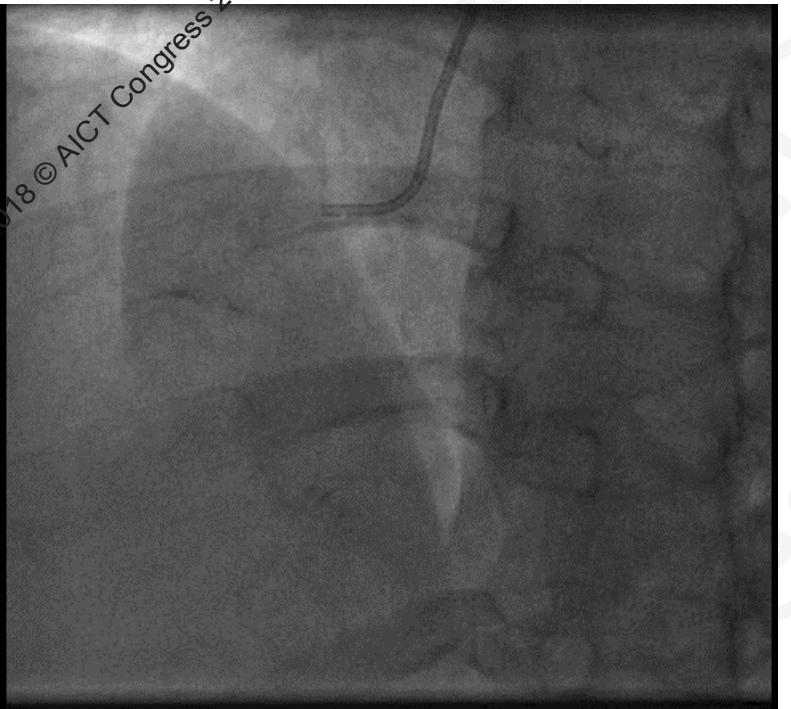


History sept 2014

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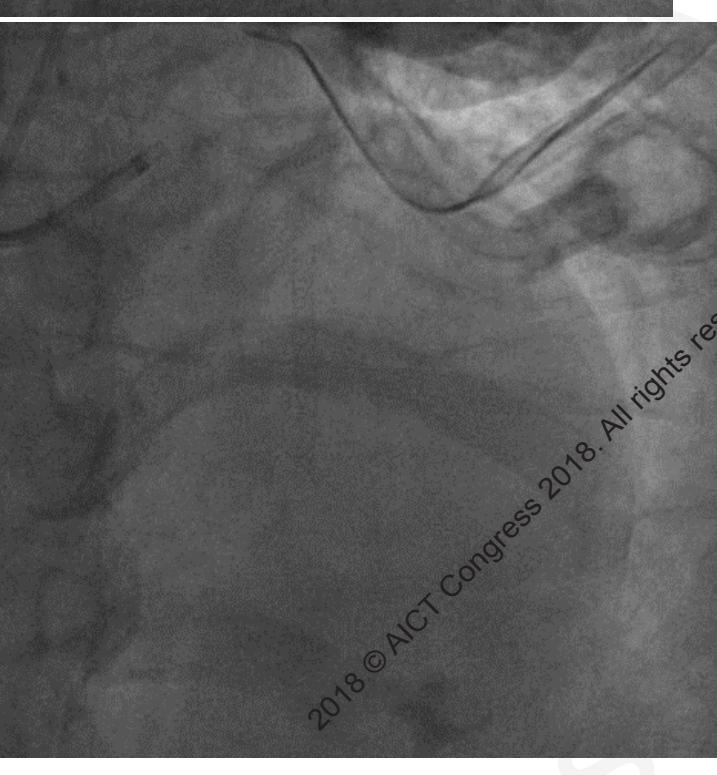
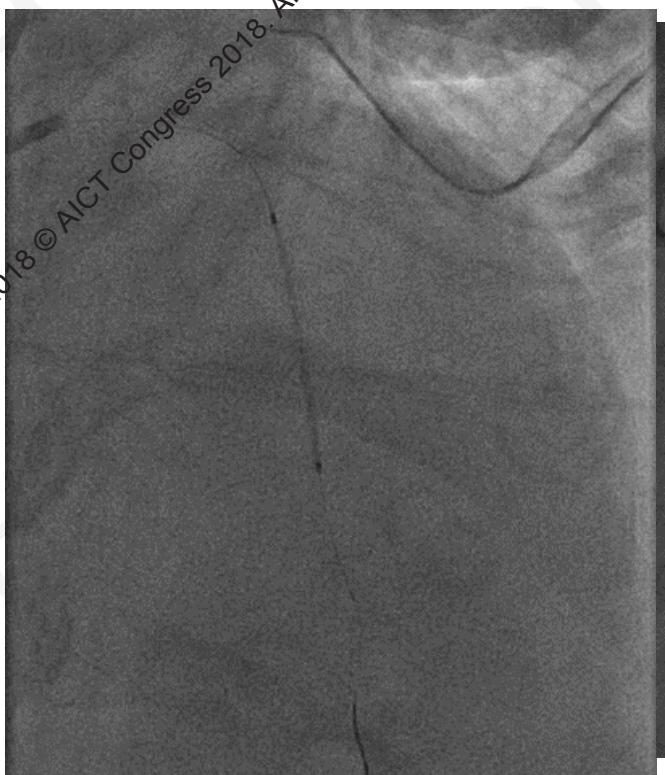
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53 yrs. old hypertensive with ACS NSTEMI,
severe LV dysfunction & pulmonary edema
CAG – TVD.

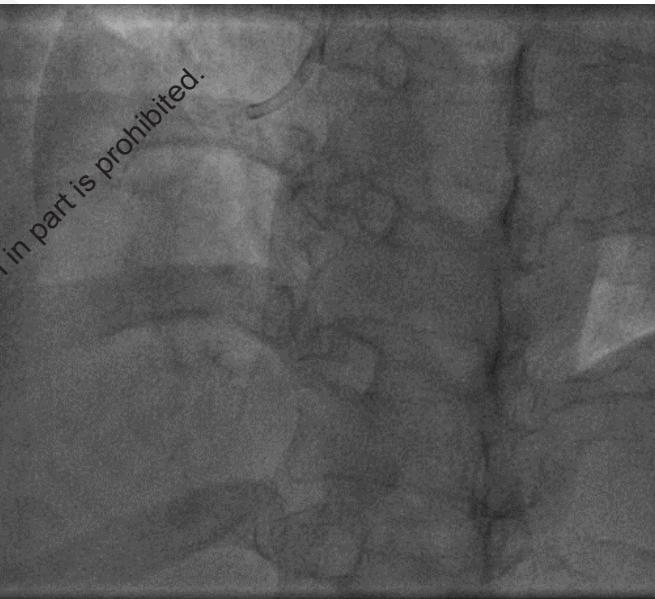
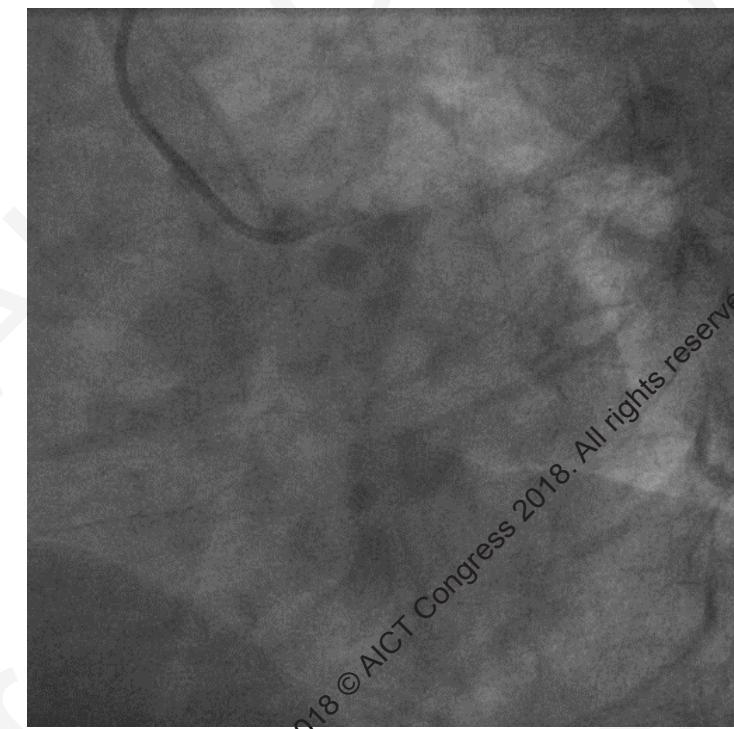
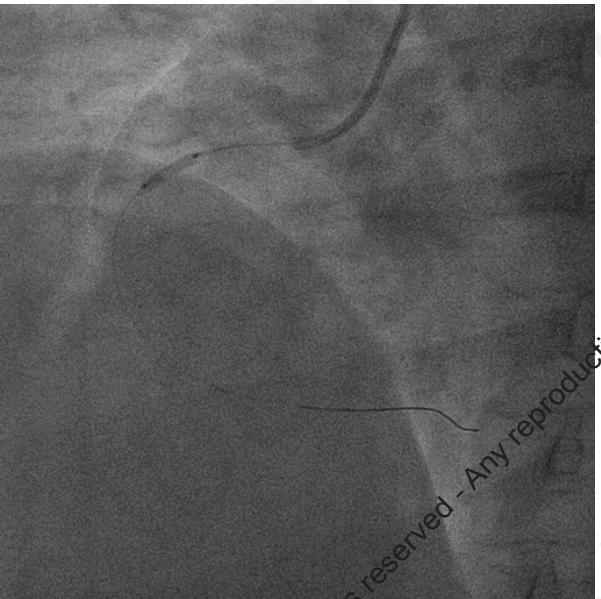


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After
stabilization PC
to
LCX & LAD
done with
2.5x23 & 3x28
mm
Xience
Xpedition
stents
to respectively

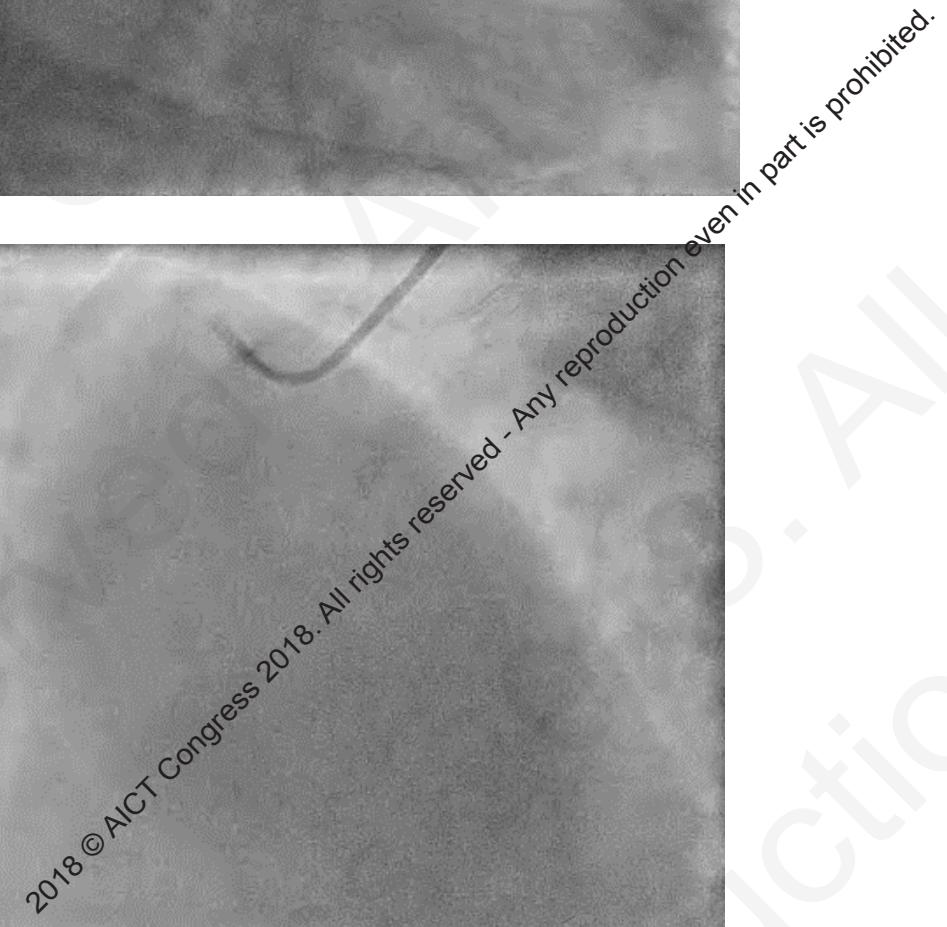
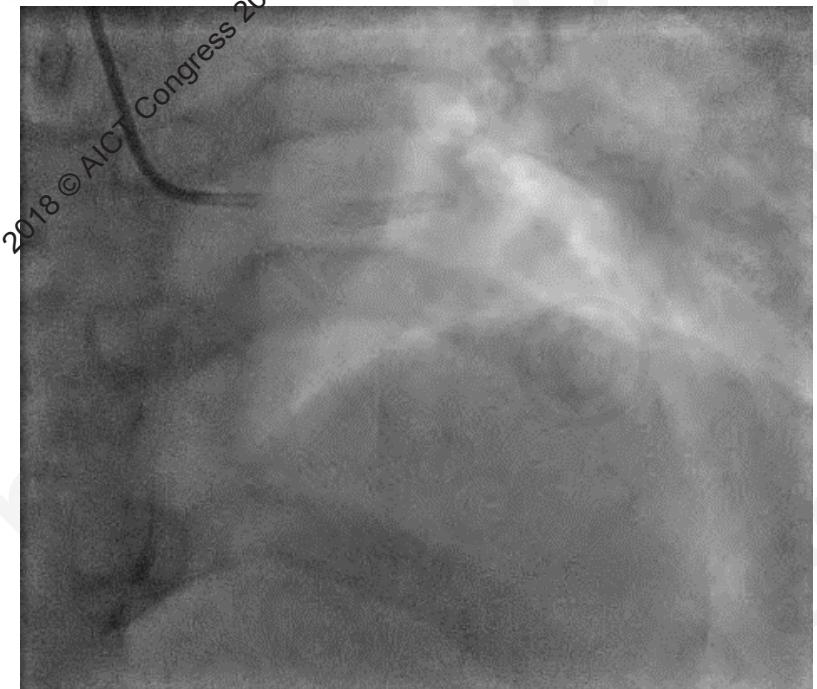


After 1 month
Elective staged PCI
done to RCA with
3 X 18 MM XIENCE
PRIME STENT ON
24.11.2014
Check angio of
LCA showed
patent stents
She was continued
on ticagrelor and
aspirin

One year later (Sep 2015), On routine F/U

- she was asymptomatic
- normal LV function
- negative TMT at 9 METS
- In view of multiple stents, DAPT continued,
- But Ticagrelor switched to clopidogrel and aspirin continued

10 days later, she
presented with Effort
angina
(recent stress test –
negative)



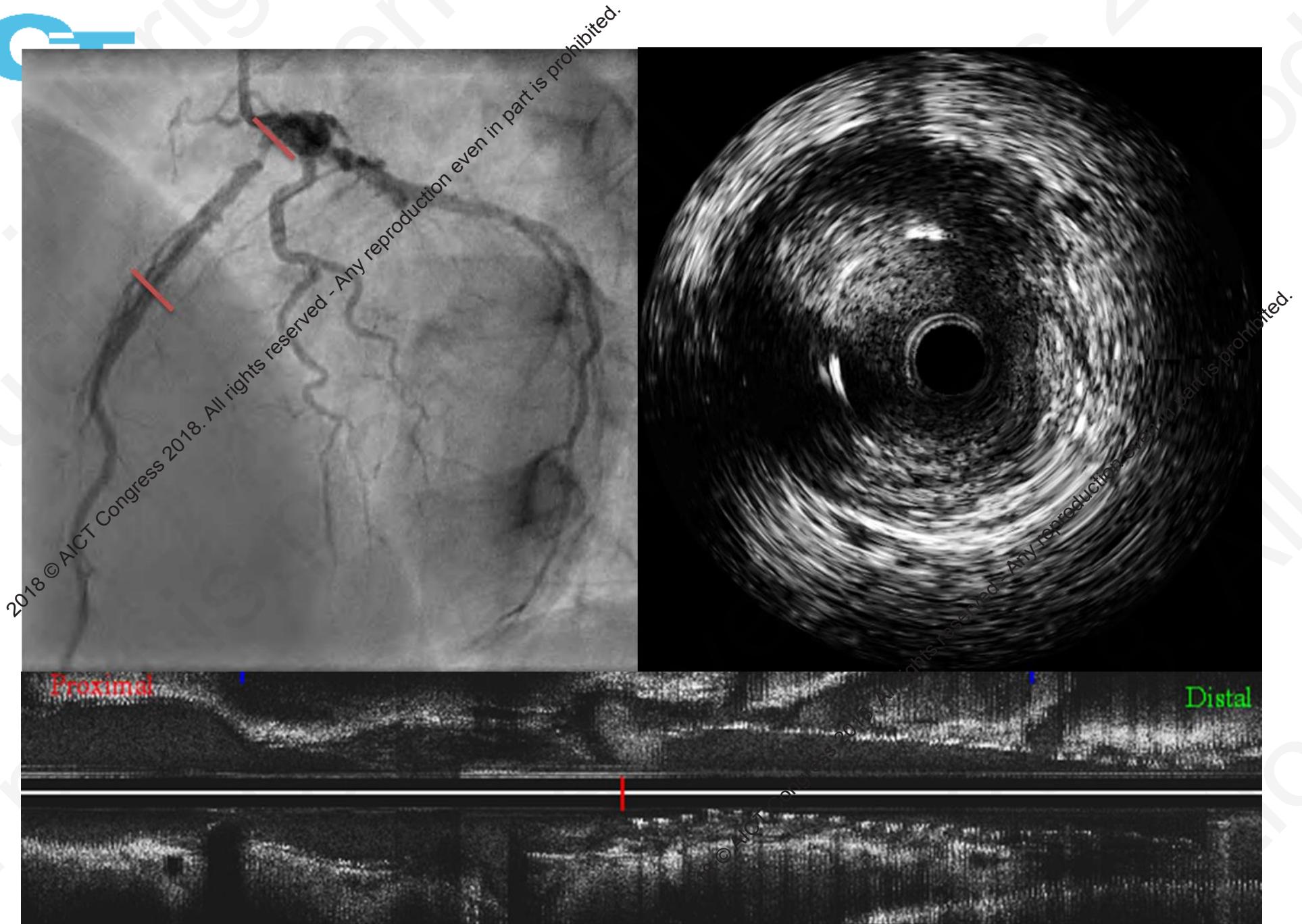


What is the possible diagnosis?

What next ?

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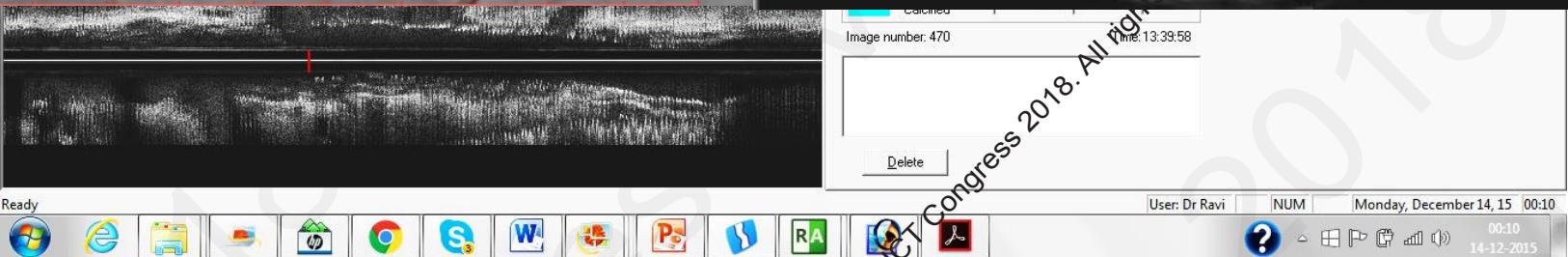
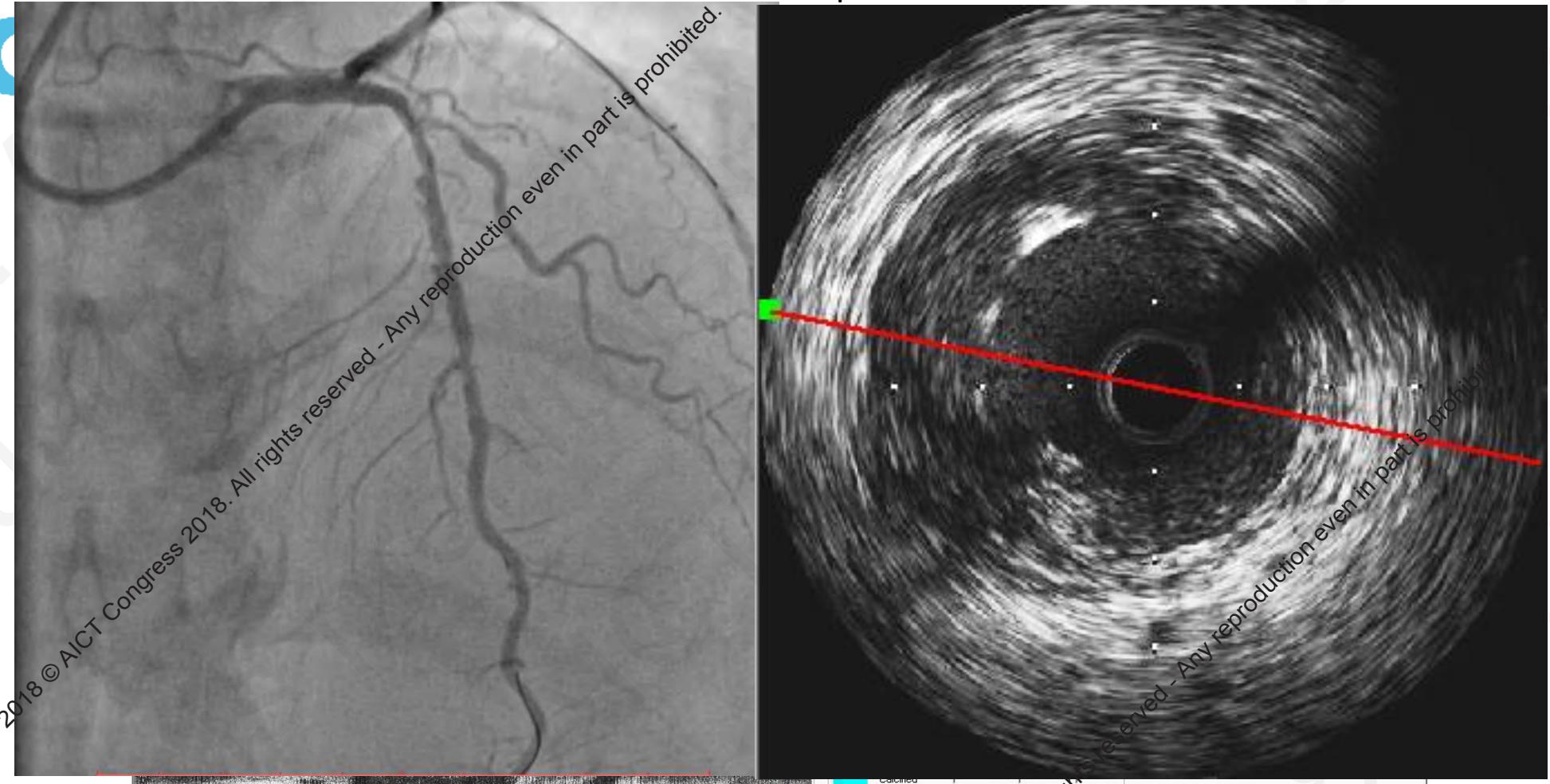


What next ?

- Switched back to ticagrelor
- Hematological work up done was with in normal limits
- Clopidogrel resistance assay was negative for resistance
- 10 days of LMWH
- repeat CAG

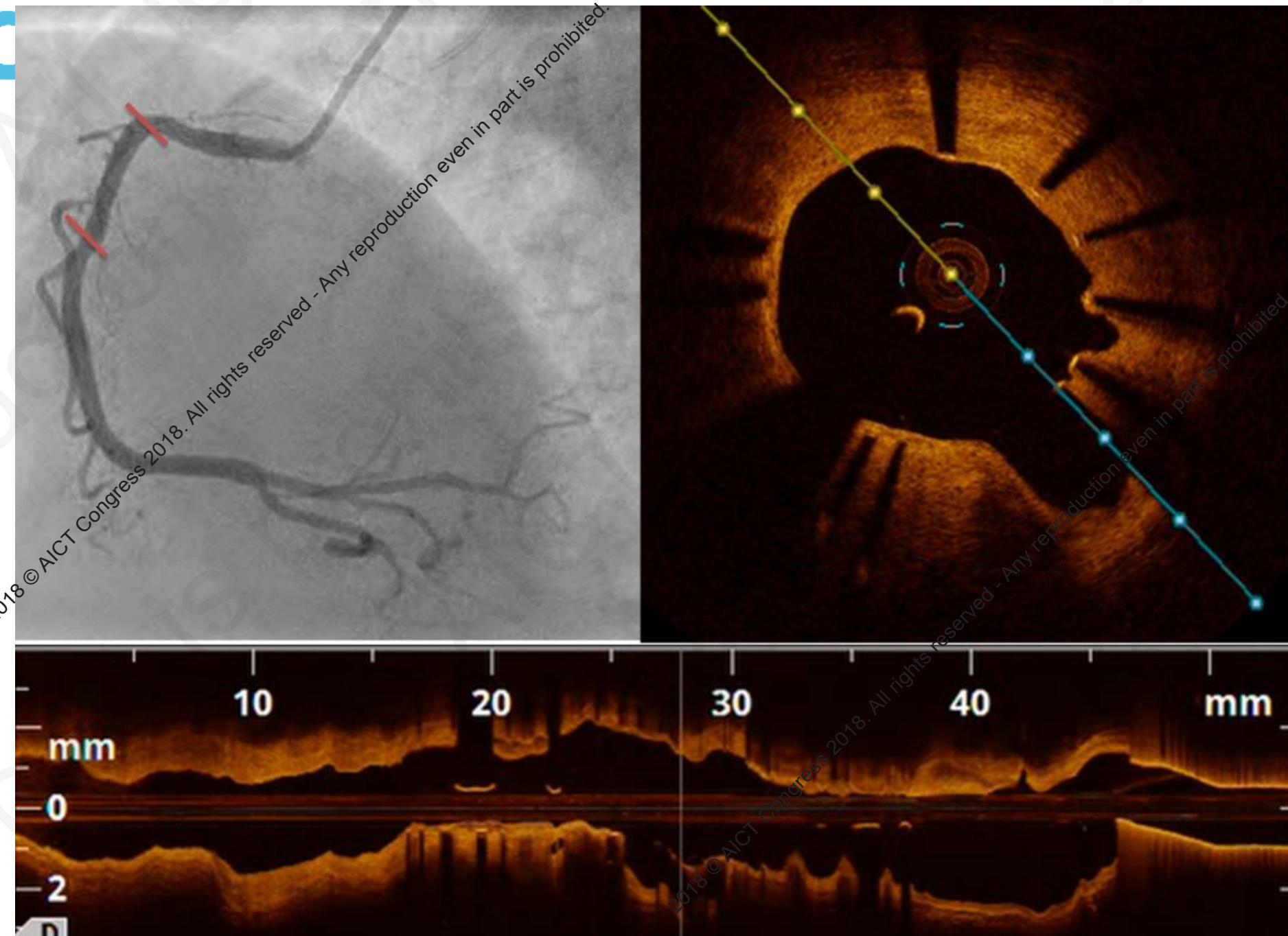
Check CAG & Repeat IVUS

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OCT of RCA in spite of angiographically normal RCA

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Plan of Management

- Patent stents, but aneurysmal
- No thrombus
- No role for PCI/CABG
- Medical management
- Continue ticagrelor and aspirin
- Close follow up

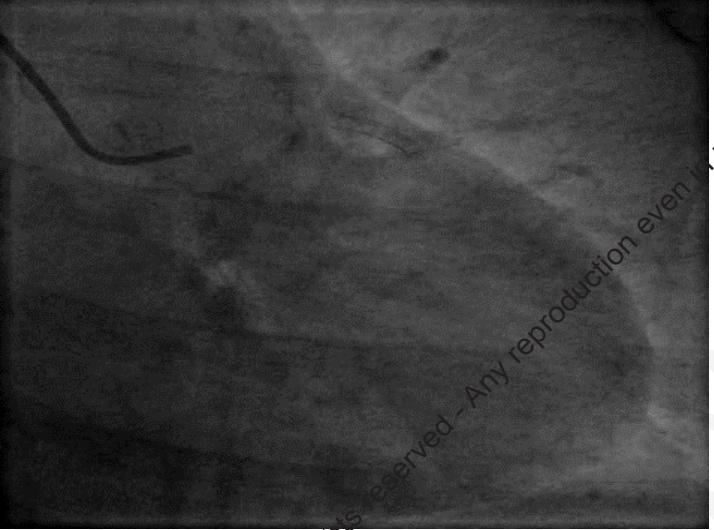
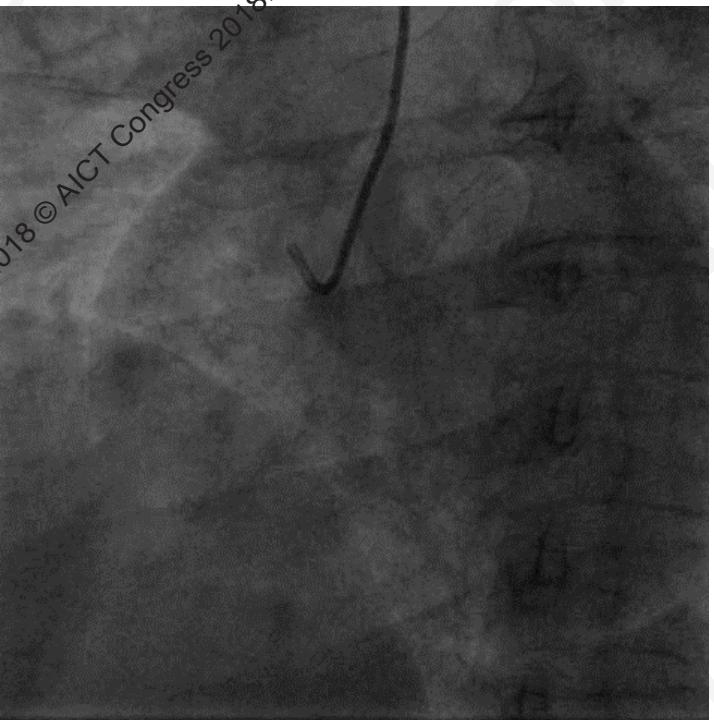


6 months(4/5/2016) later, presents with
unstable angina

What Next ?

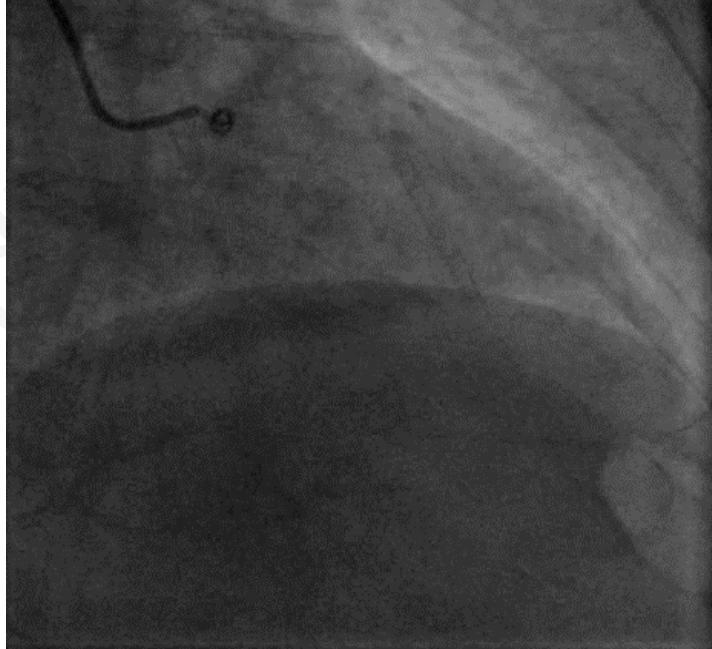
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- Multiple stent thrombosis
- Aneurysmal vessels
- Planned CABG , RCA also recommended graft in view of the OCT findings, despite normal angiogram.
- However surgeon refused to graft RCA,CABG done with grafts to LAD & OM.

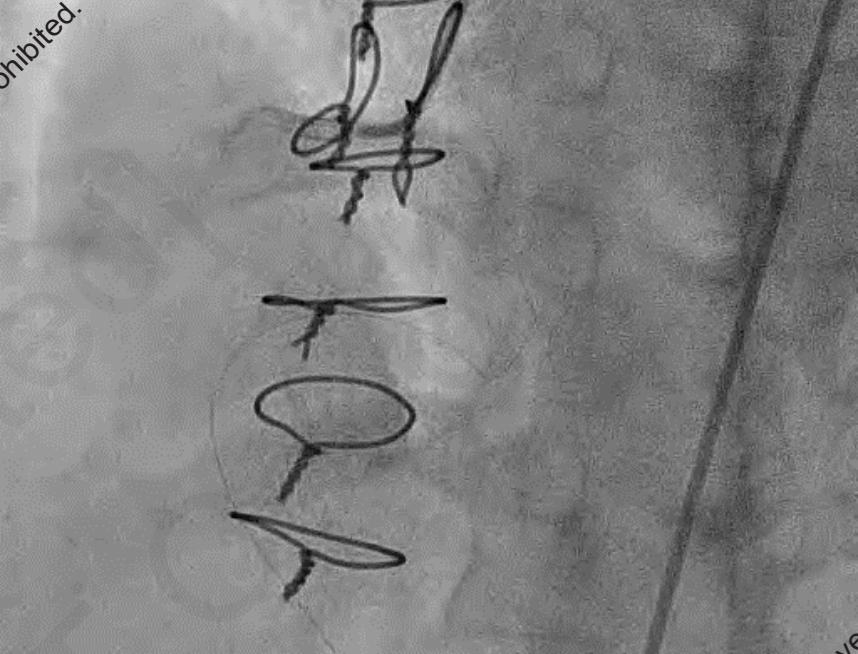
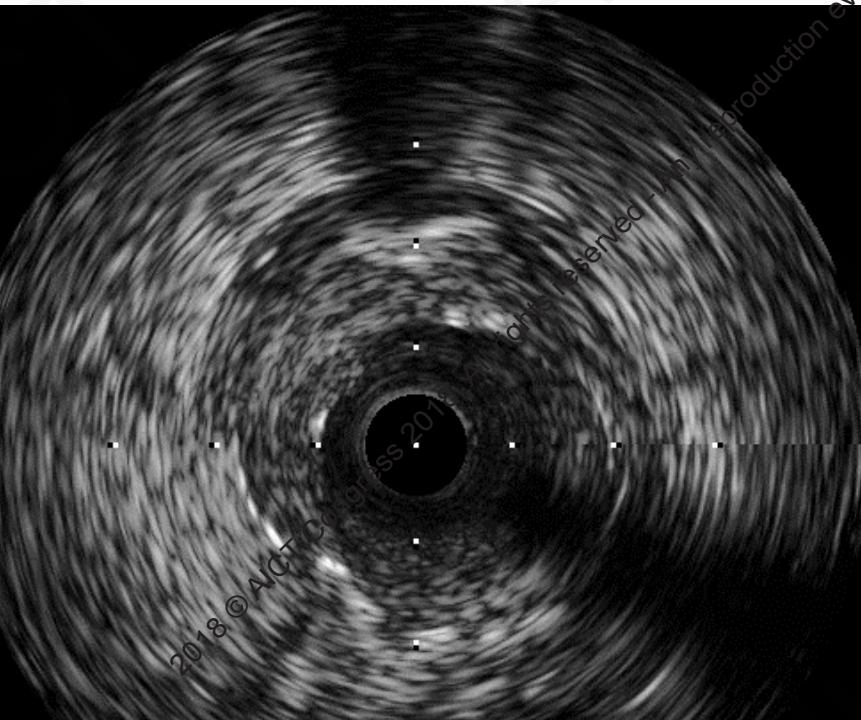
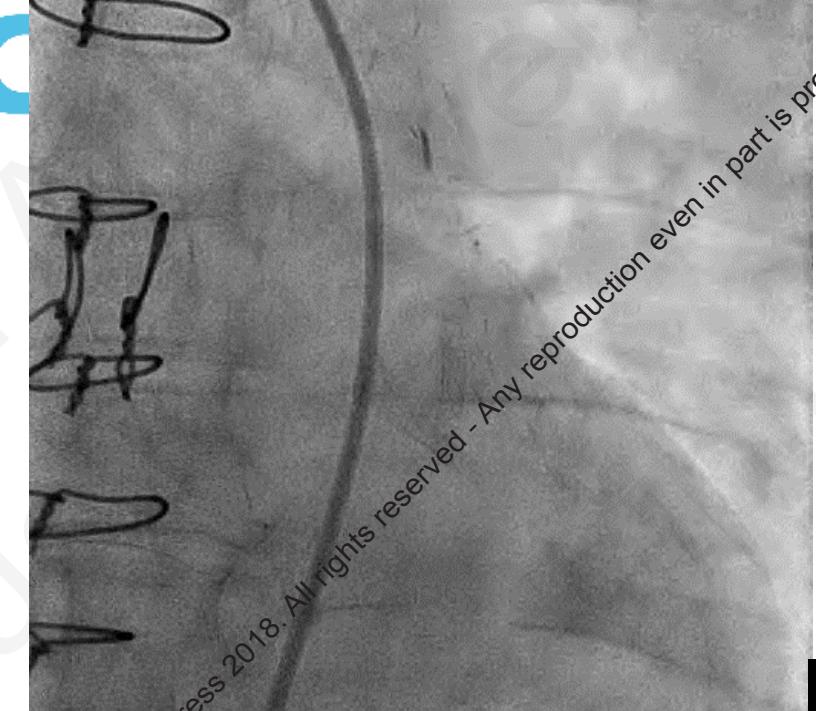
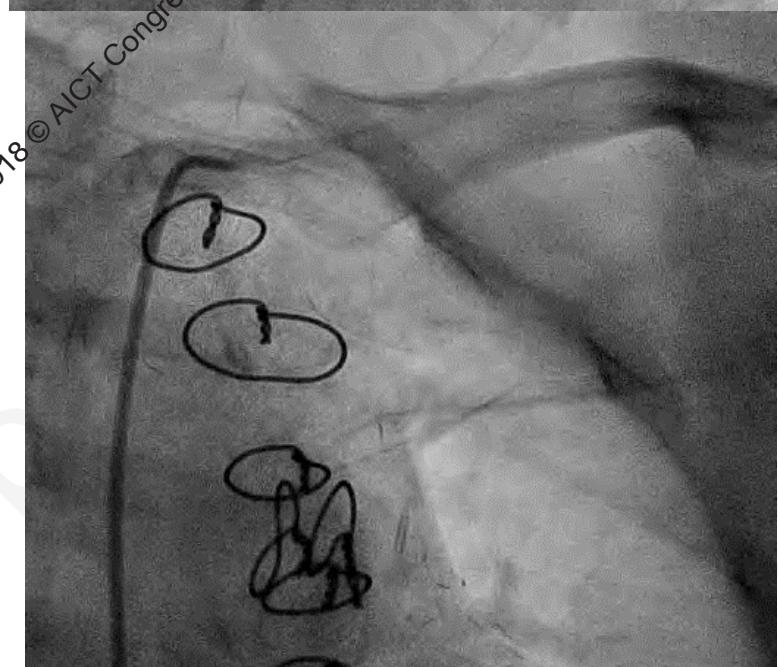


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6 months(7/11/2016) later, again
presents with unstable angina

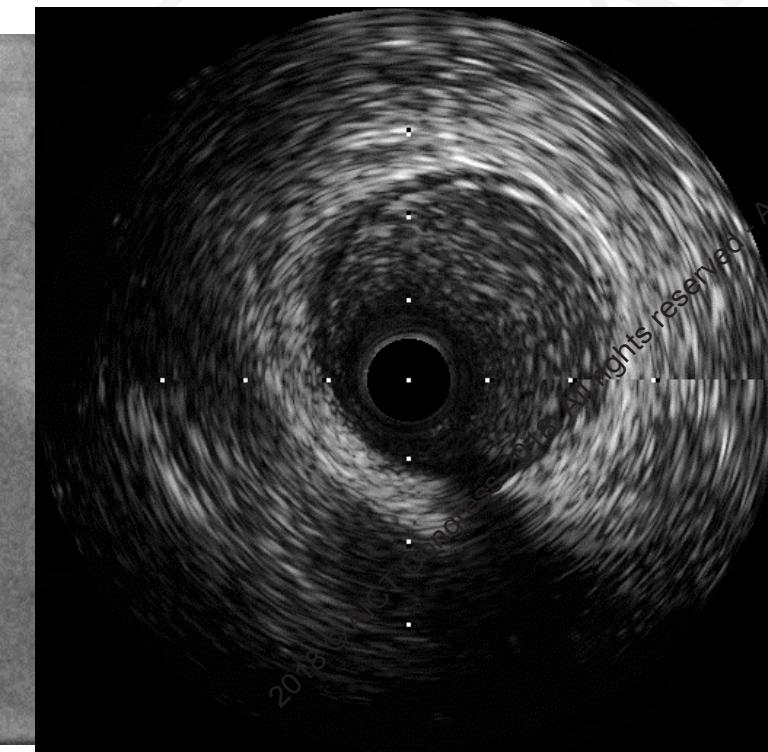
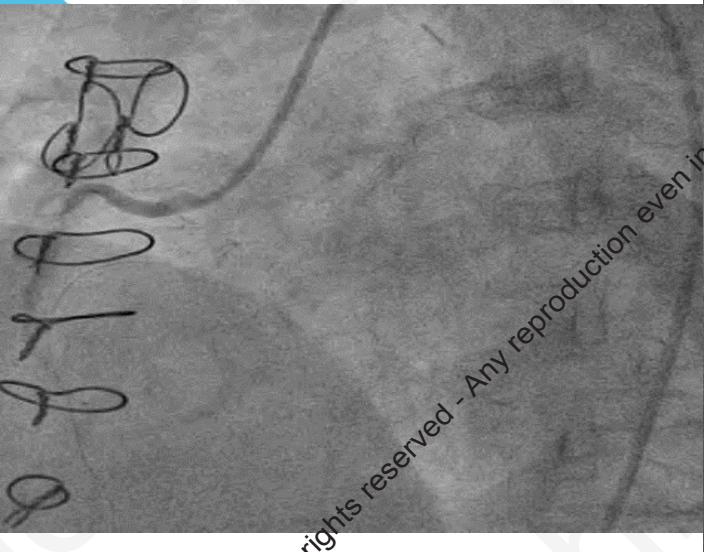
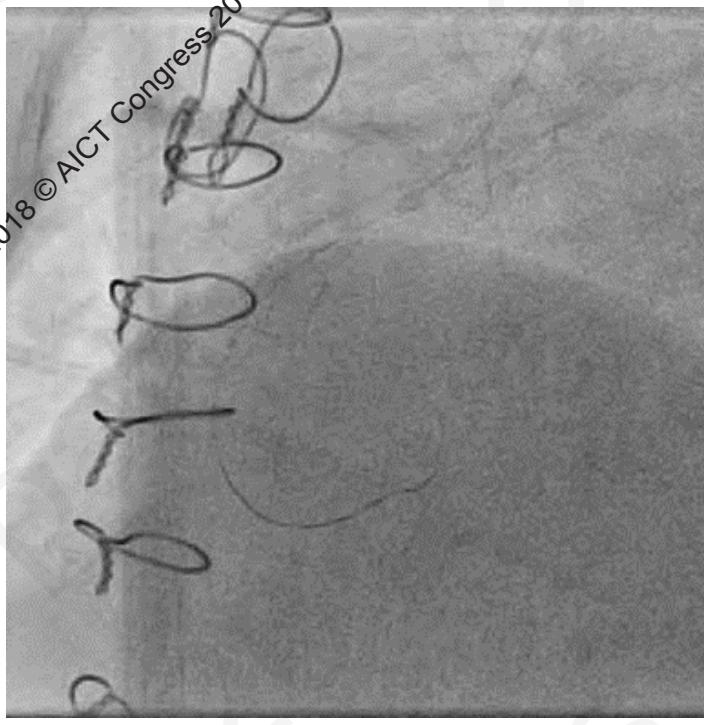
What Next ?



Post
CABG she
came
with
Unstable
angina
patent
grafts
cag
Nov 2016

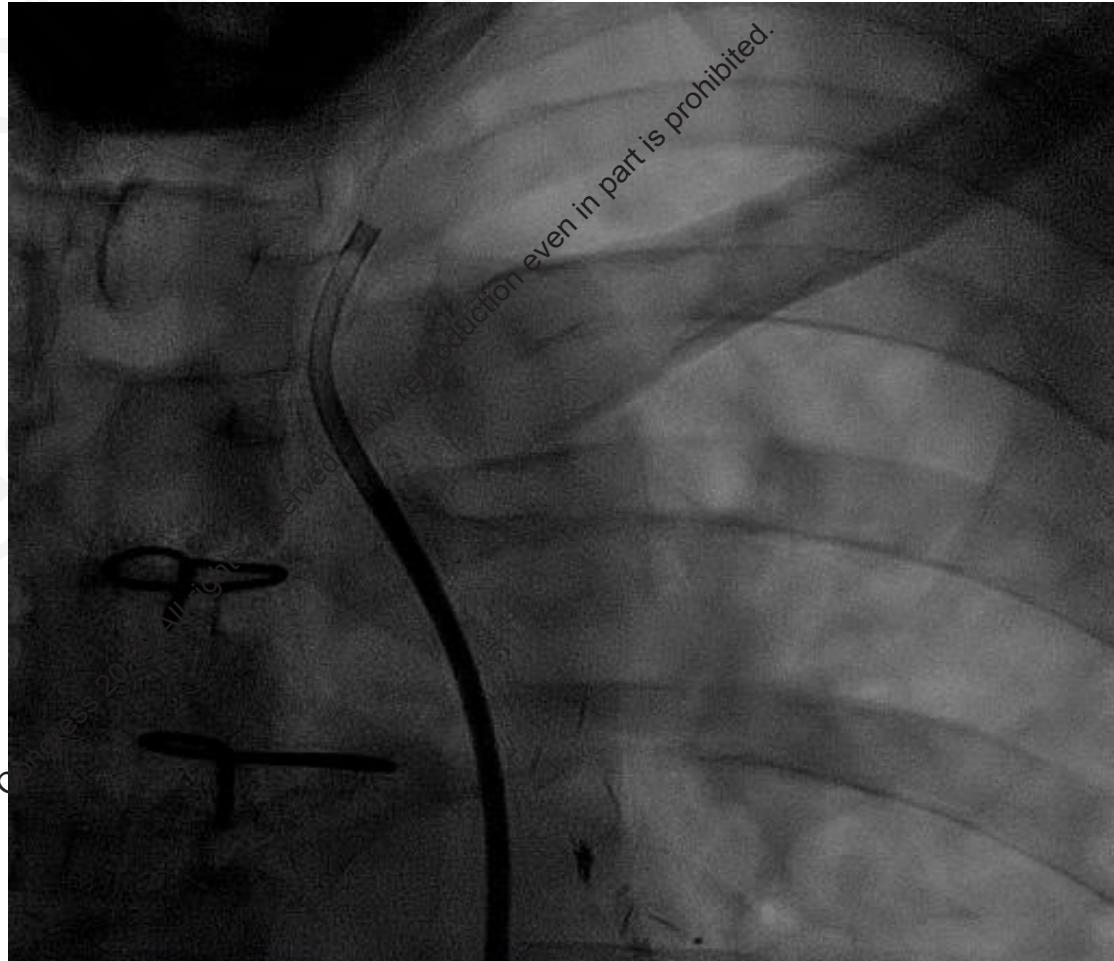
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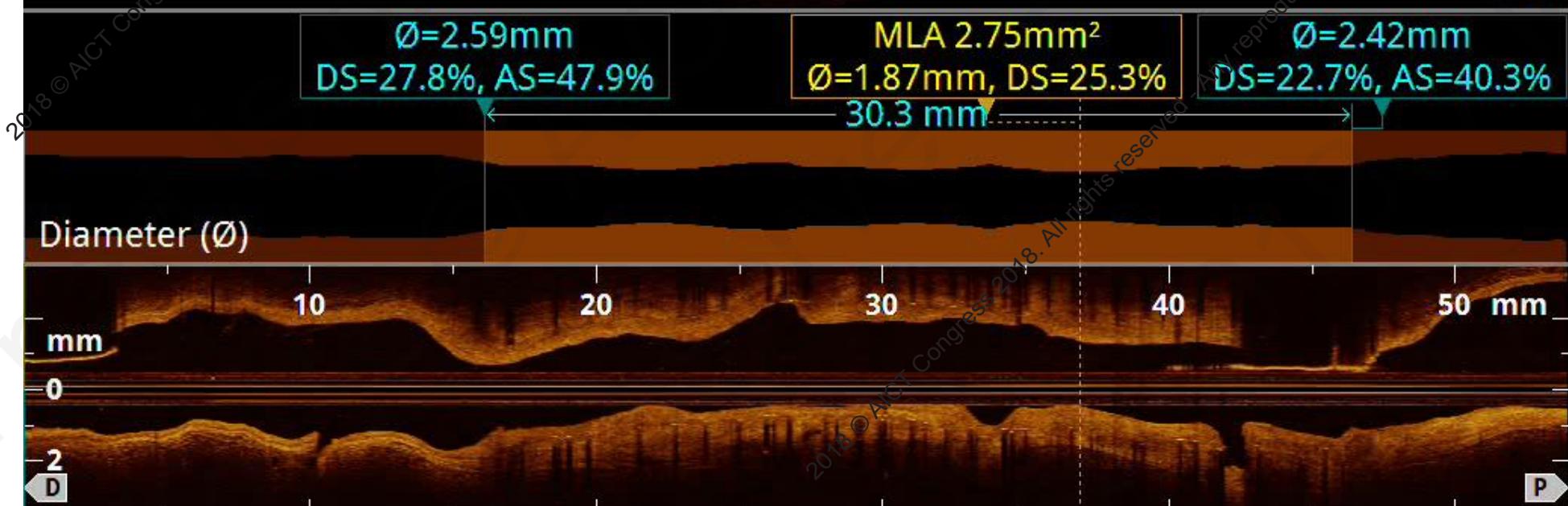
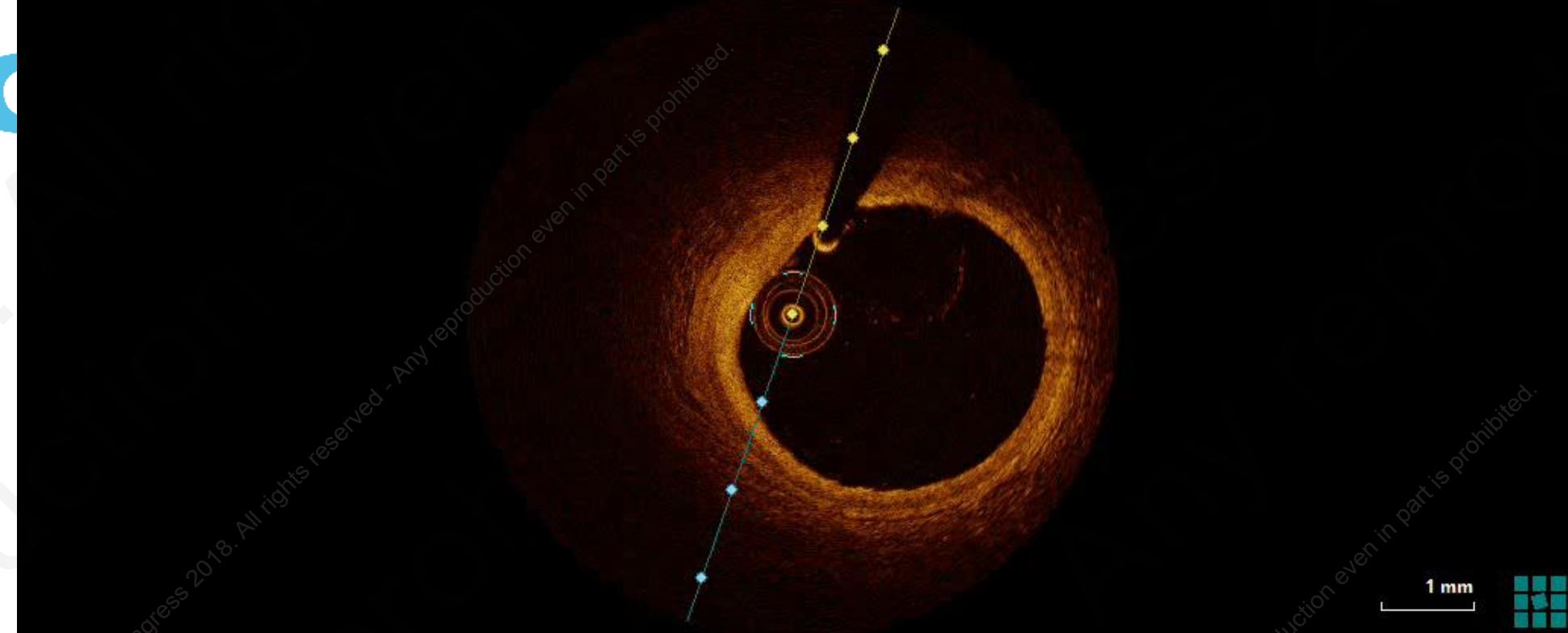
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IVUS guided
PCI to RCA
with 3 x 29
mm BMS

9 months clinical follow up, asymptomatic Check angiogram and OCT





Finally, we succeed

- Hypersensitivity to durable polymer stents can cause aneurysms
- Rare in 2nd gen DES
- Imaging – OCT and IVUs crucial in this case
- RCA aneurysm seen by OCT and not seen by angiogram
- BMS – the rescuer in this case
- BMS shown to heal rapidly and solve this recurring problem



Thank you

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14th



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