Unexpected aftercare caused by the simple stent technique

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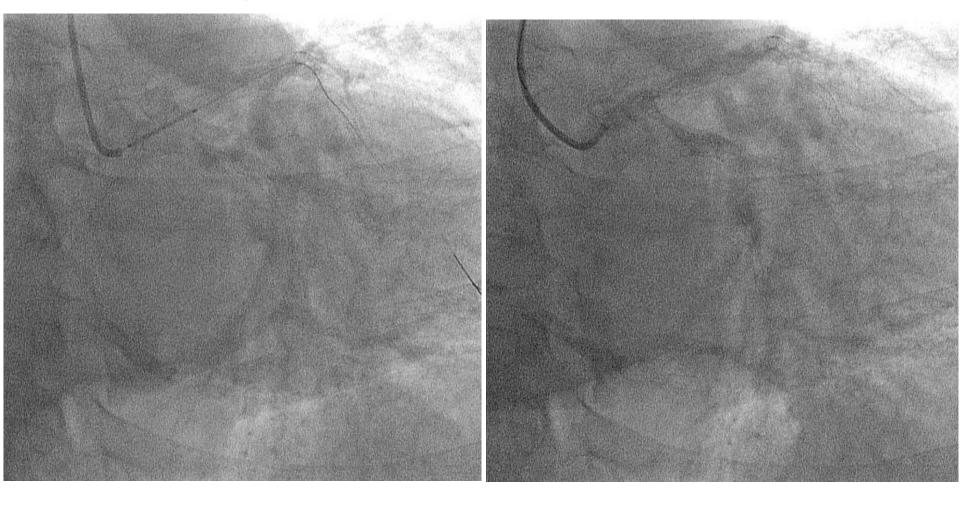
> Kiyotaka Iwasaki, Ph.D Waseda University, TWIns Tokyo, Japan

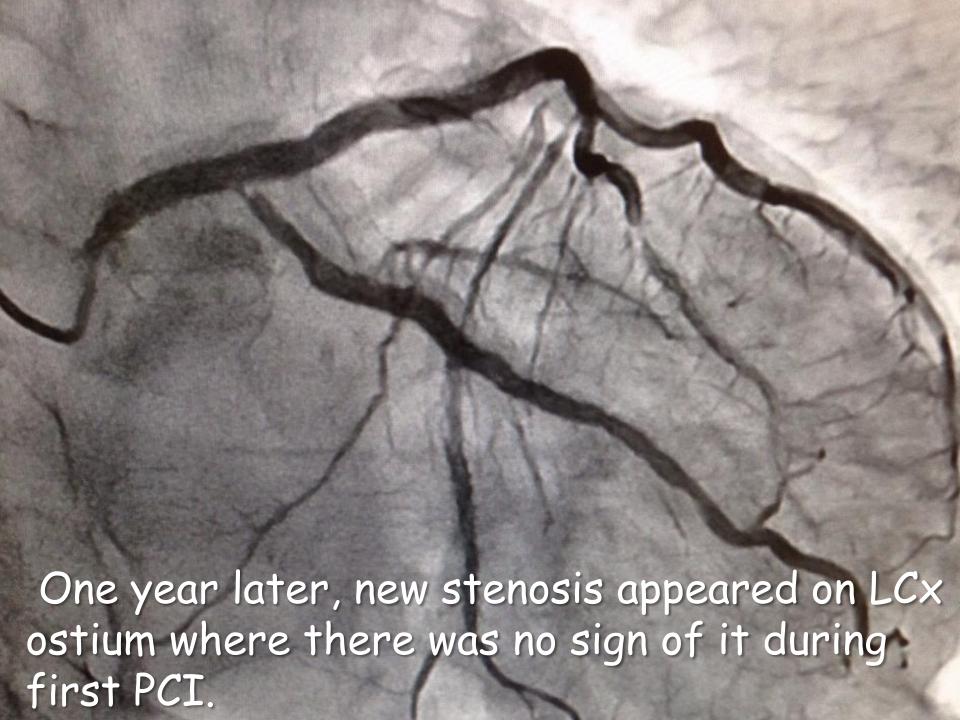
Case. 60's Male

- One year ago, he had been implanted one Resolute Integrity stent from LMT to proximal LAD without POT or final kissing balloon dilatation (FKBD). The whole procedure was completed successfully.
- But recently, the chest discomfort and arrhythmia on exertion started to appear, therefore, we made an appointment of CAG as to follow-up this patient.

1st PCI more than one year ago

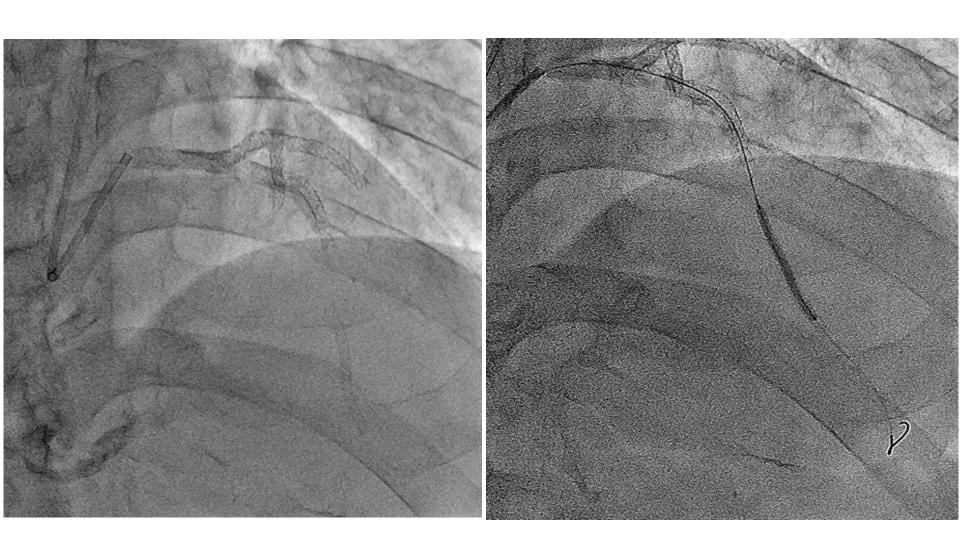
before after



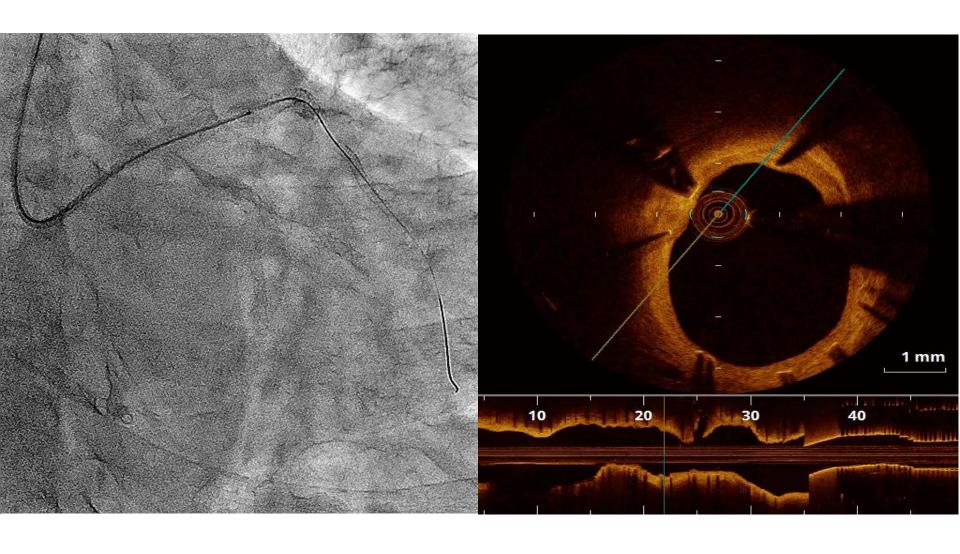


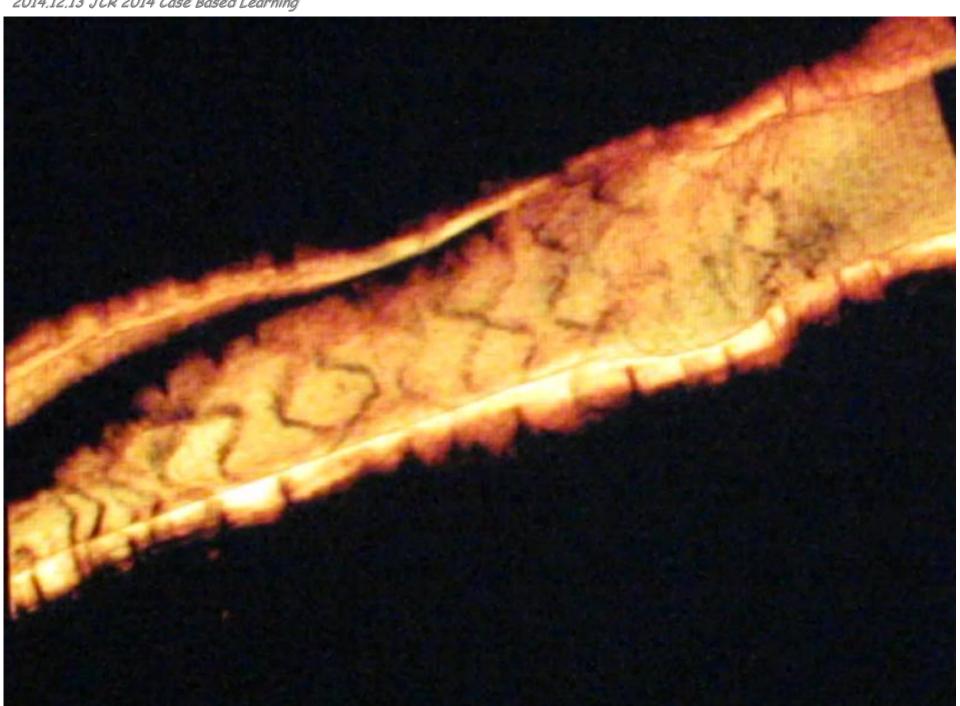
- Indeed, it remains mystery if these new stenosis could have prevented if I added POT or FKBD during the first treatment.
- What important is, we always need to be ready to respond to various cases of long-term outcomes.
- But, still some questions arise.

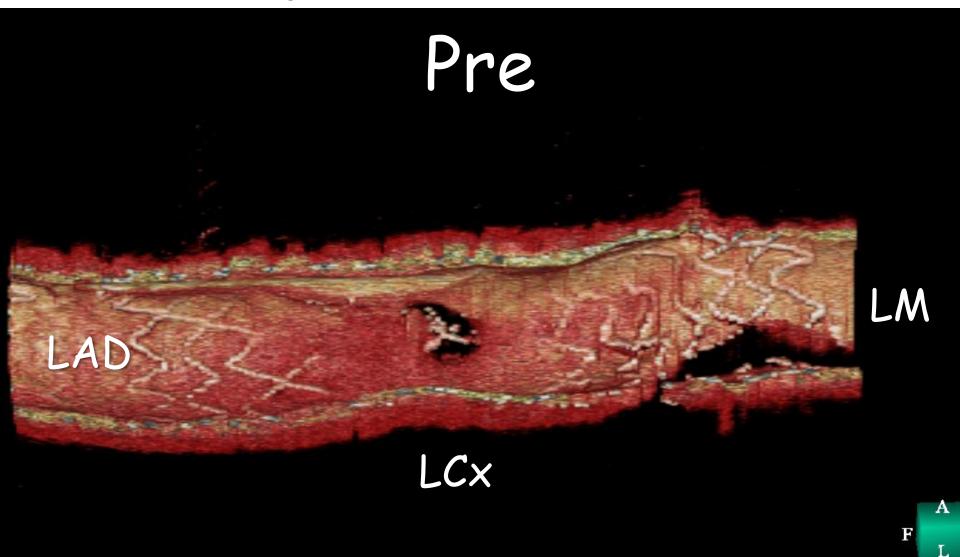
For second time PCI, I used DCB to treat restenosis of distal EES.



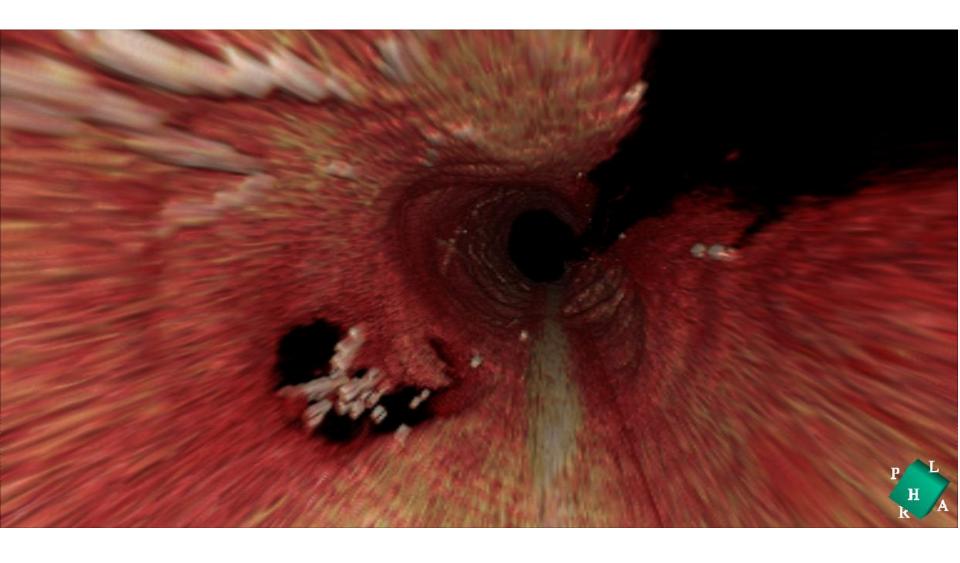
OCT findings proximal LAD~LMT



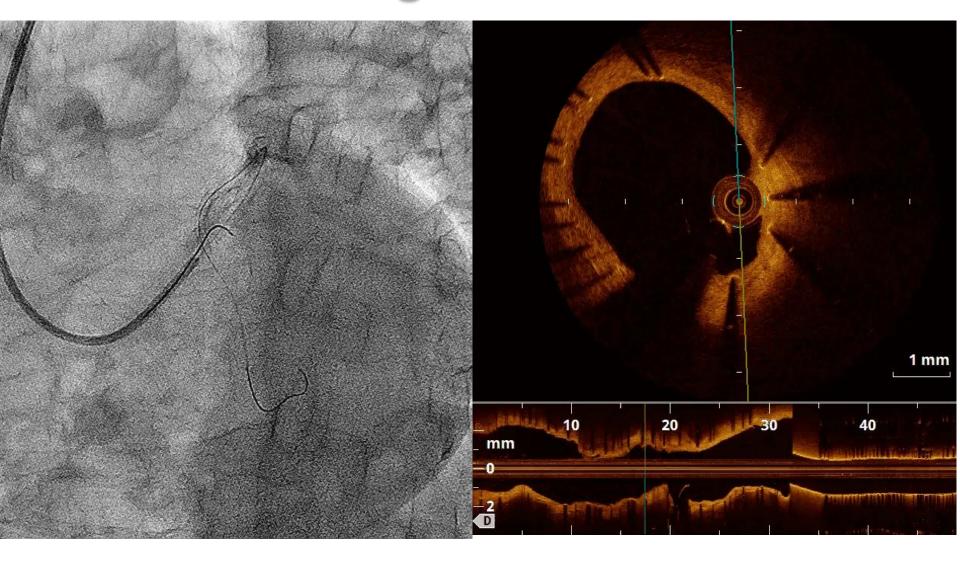




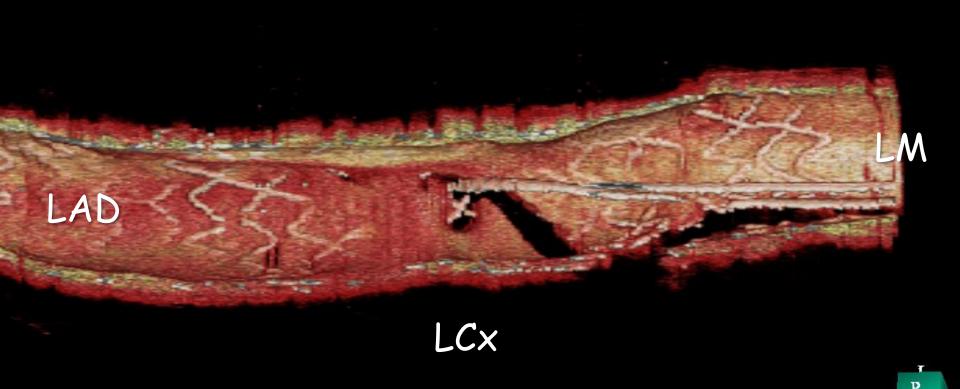
This is the image that I sent to Dr. Okamura at Yamaguchi University and asked him to reconstruct it from the OCT data taken after the procedure.



GW recrossing with Crusade cath.



Wiring to LCx

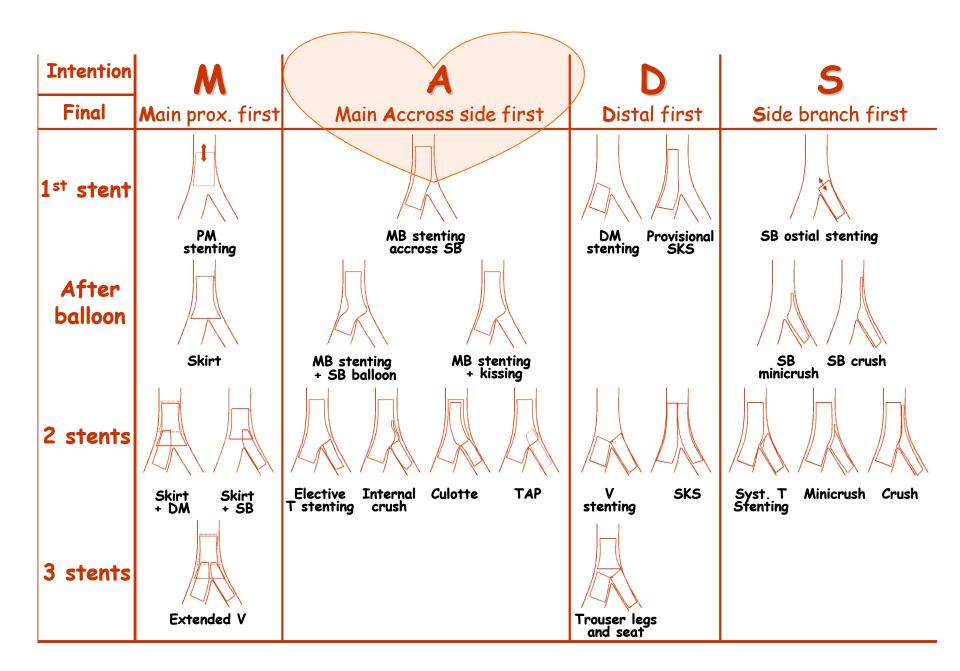


Pre KBD with high pressure

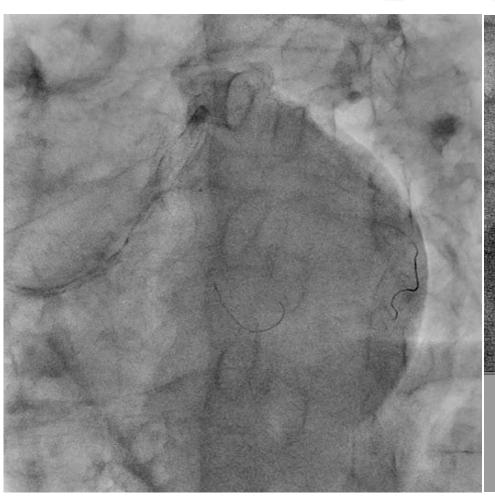
Which method is better?

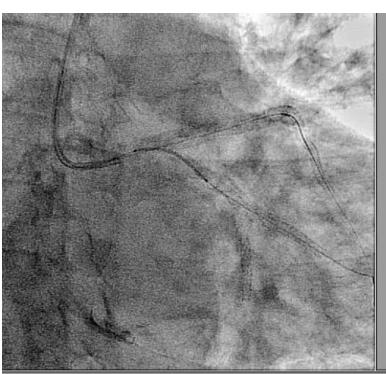




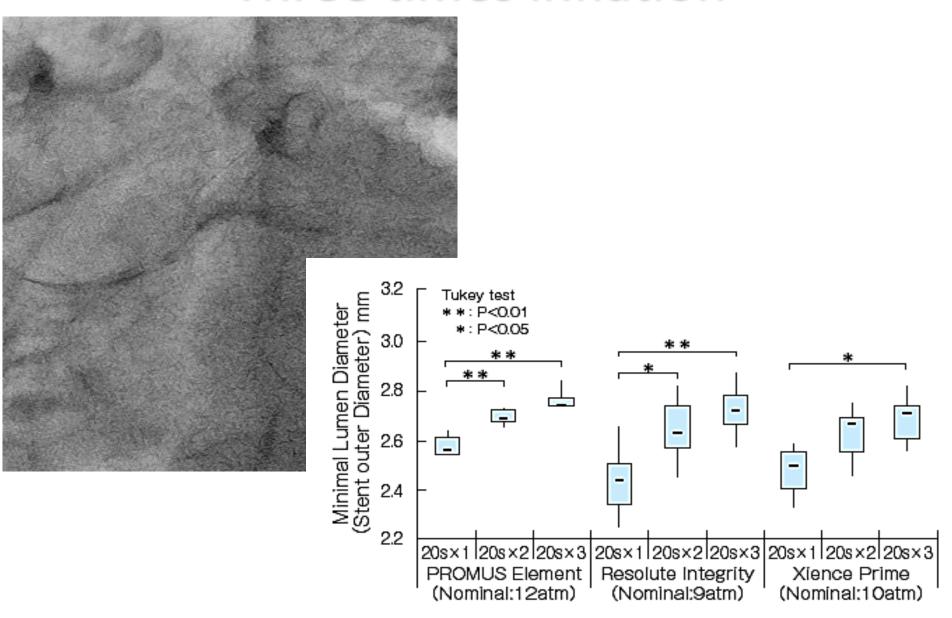


Resolute Integrity Stent View

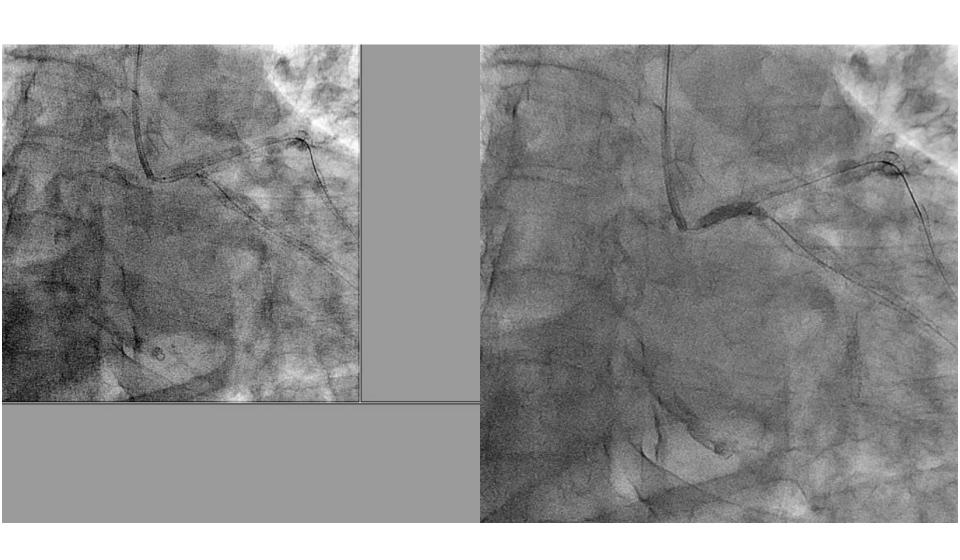




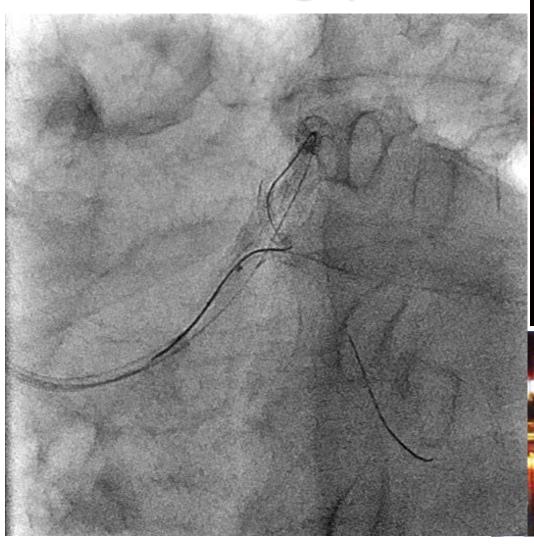
Three times inflation

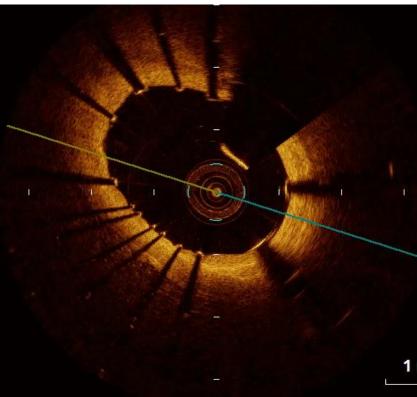


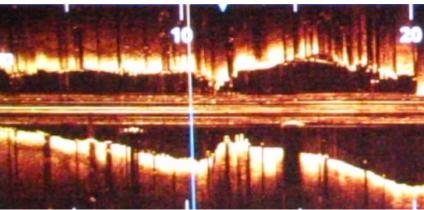
POT with Φ3.5mm HP Bal.



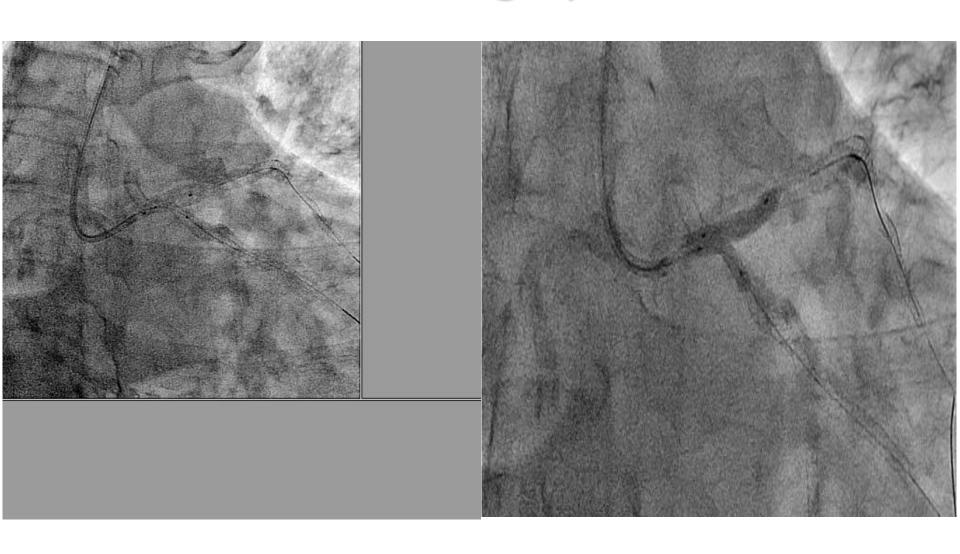
Recrossing point



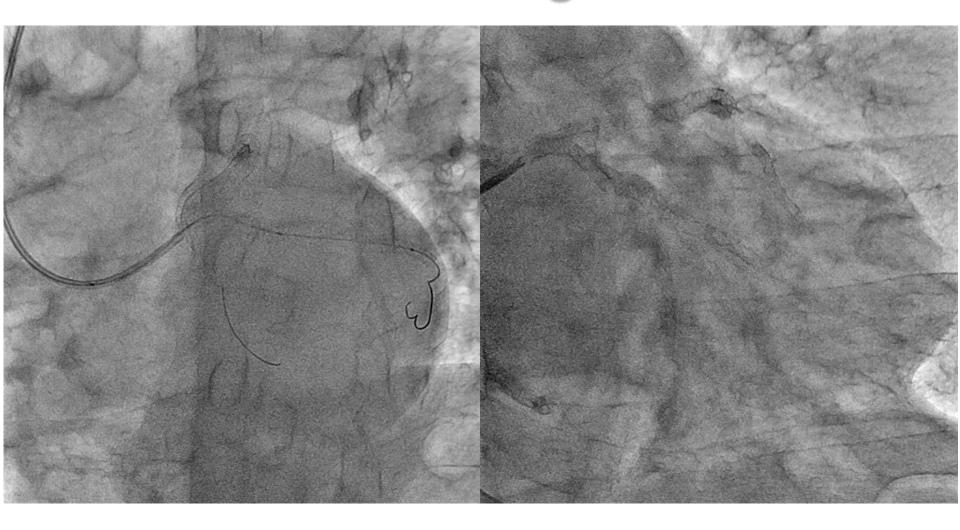


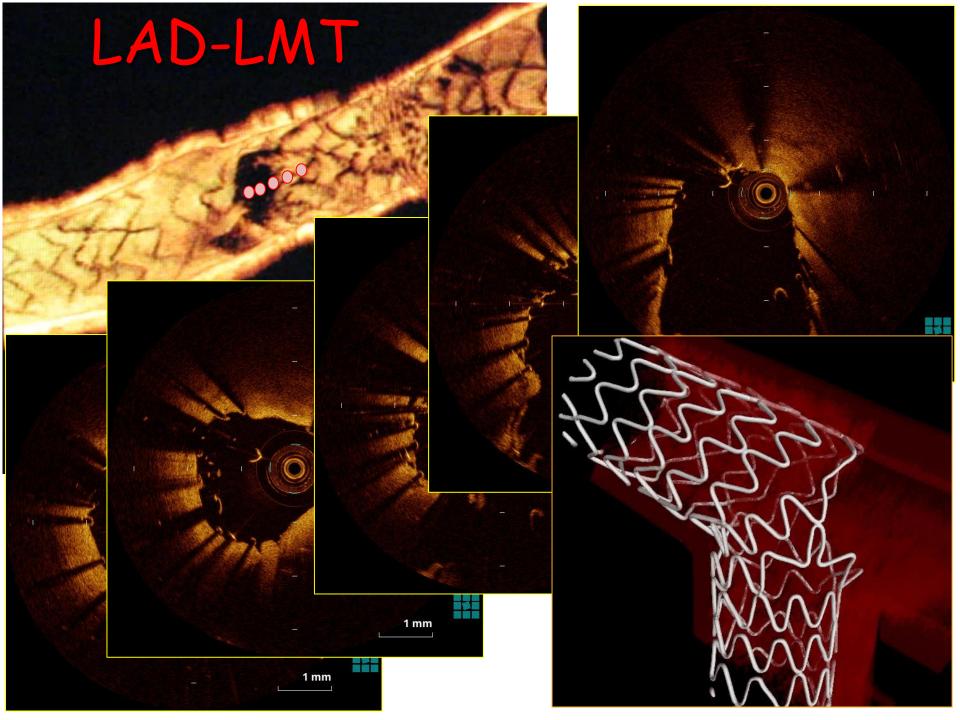


FKBD with high pressure



Final images







From this image, I found out that localized incomplete apposition occurred between 2 stents that are overlapped one another.

Conclusion

- Heterogeneous neointimal hyperplasia around SB ostium will become the new problem.
- Is this phenomenon accidental or is it inevitable?
- LCx ostium stills stands in our way.
- We usually focus on the outside strut
 malapposition, but we have to be careful
 about the carina side struts overlapping. It
 is unavoidable phenomenon at sharp curve.