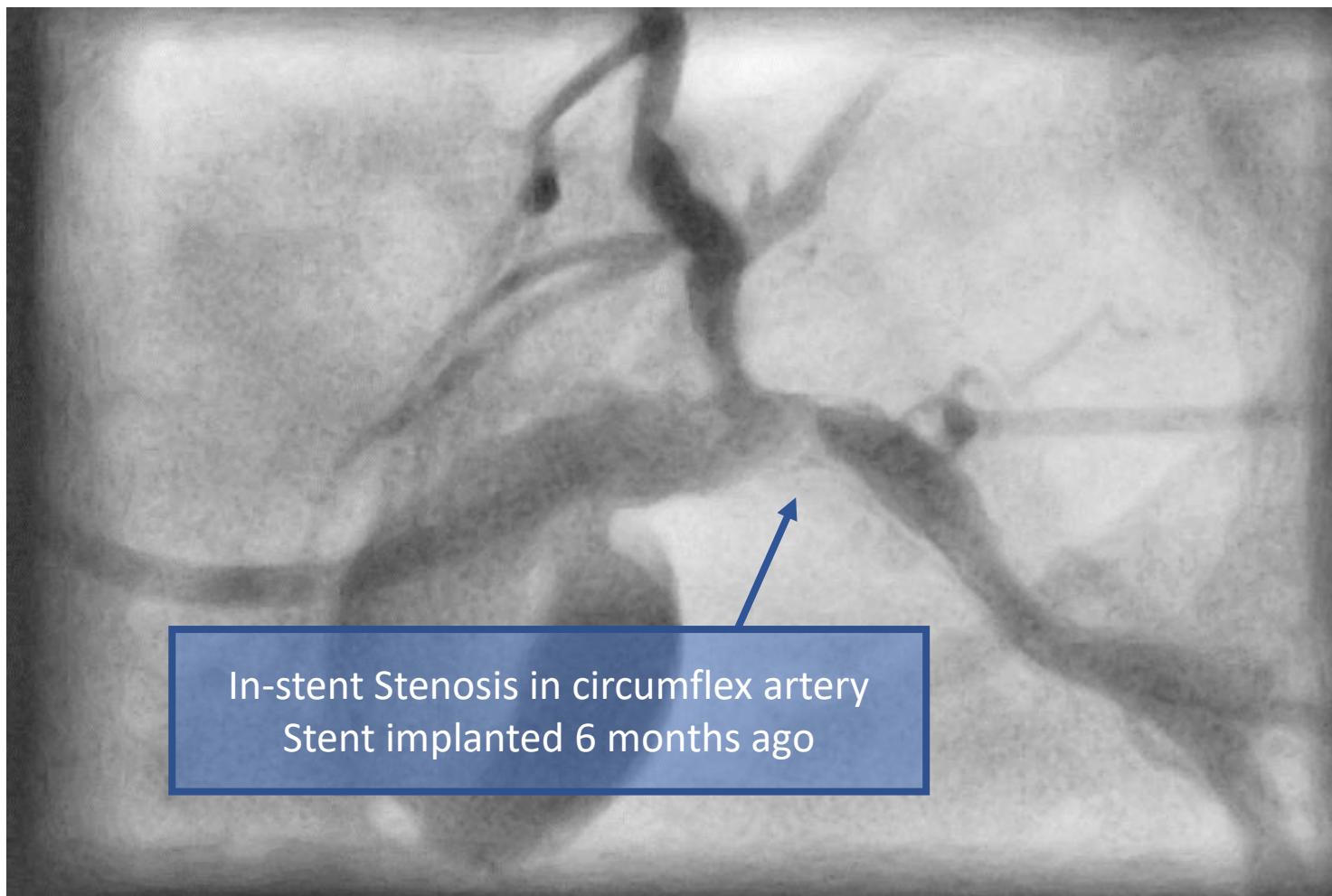


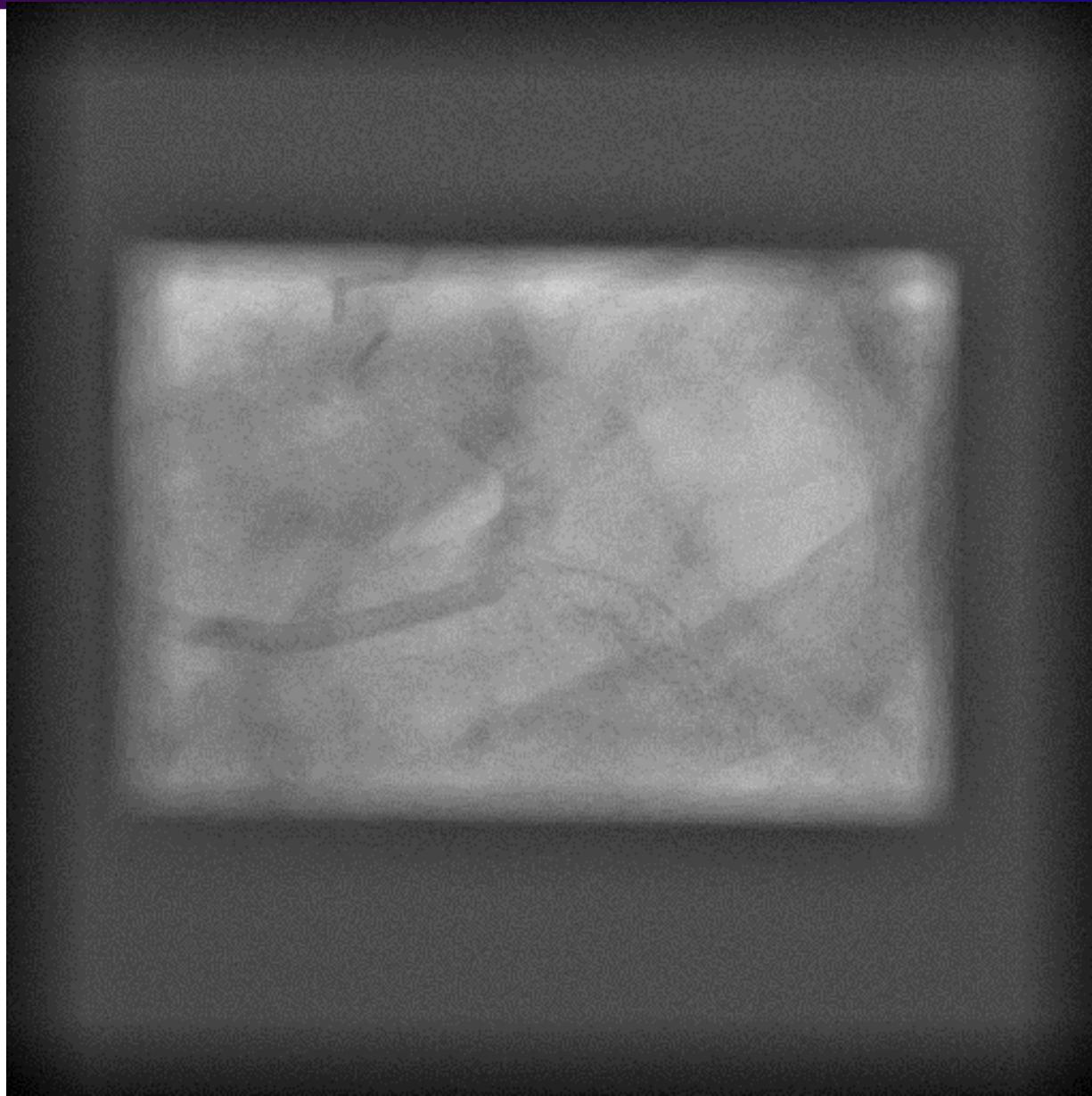


The underexpanded stent remains an  
undefeated enemy

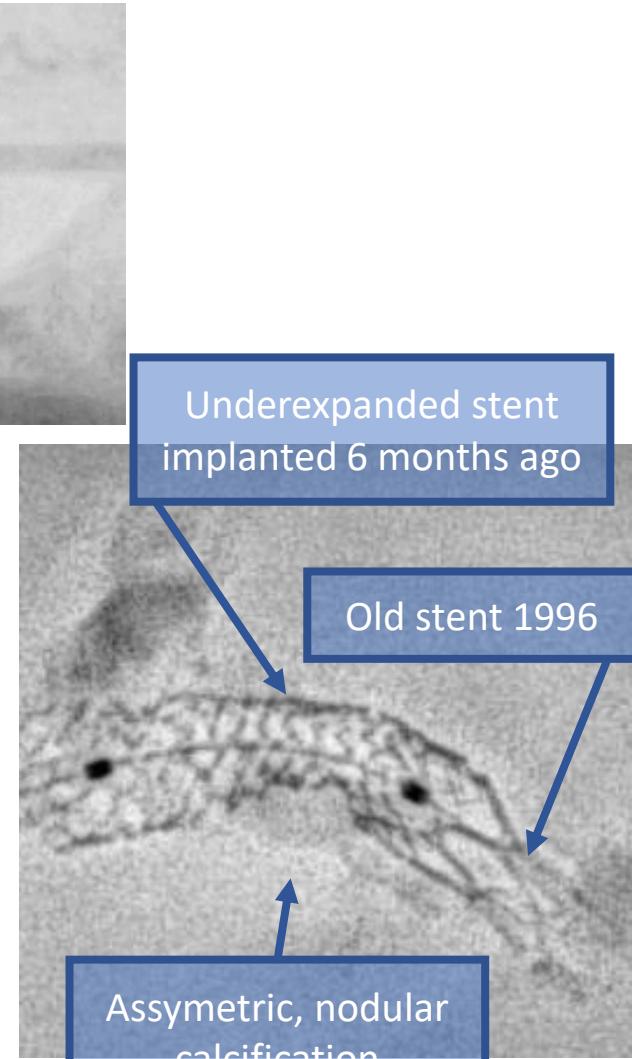
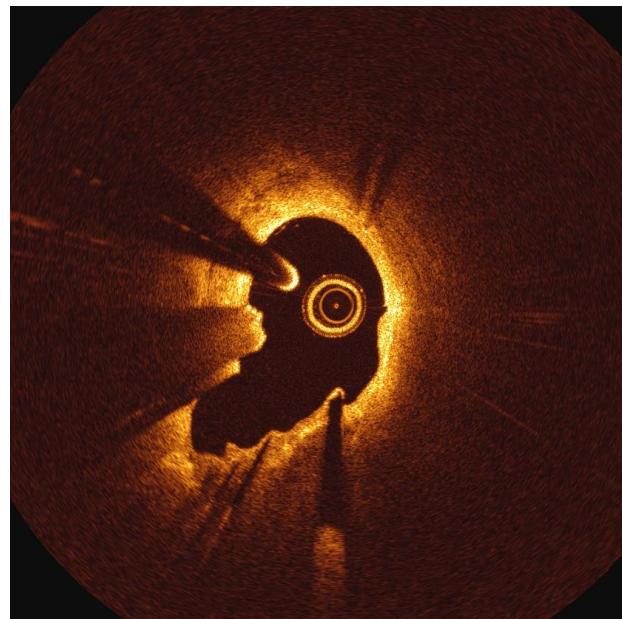
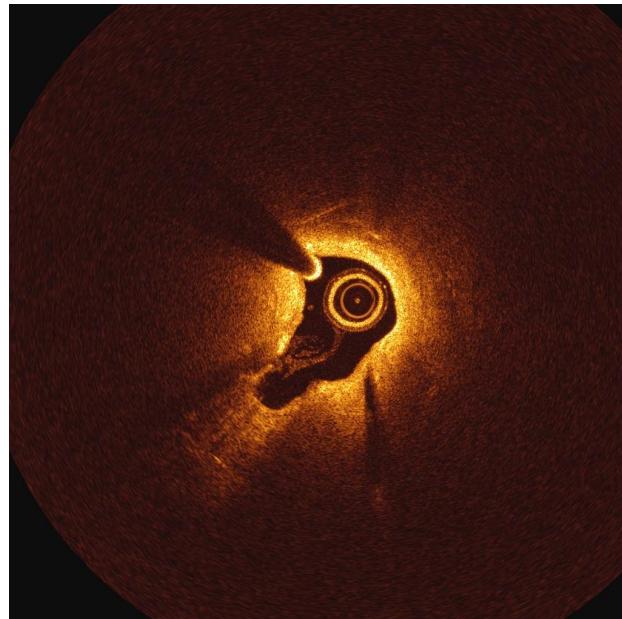
75 y/o male, stable angina CCS 2, prior CABG

- left internal mammary artery on left anterior descending artery
- SVG on marginal branch not supplying the distal left circumflex artery territory

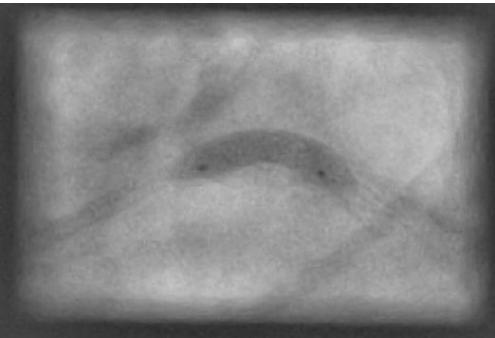




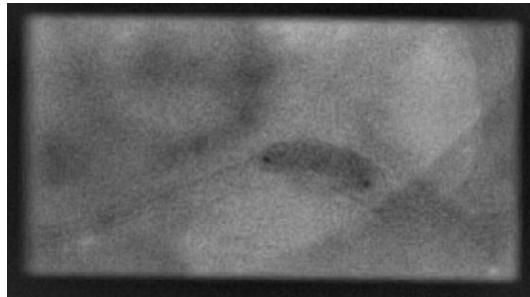
# Understanding the lesion



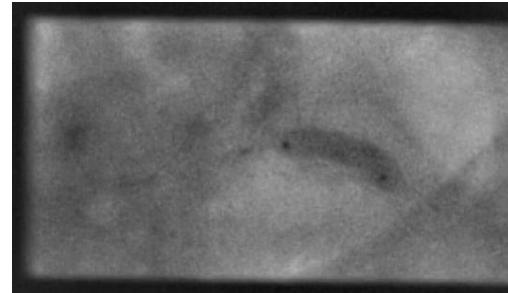
## Lesion preparation



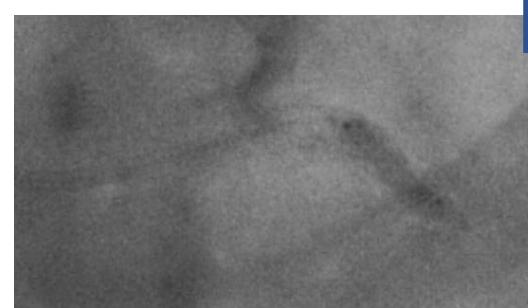
Non-compliant balloon  
3.5x15 mm, 3x 26 atm



Lithoplasty balloon  
3.5x12 mm, 4 atm + 6 atm  
1<sup>st</sup> cycle



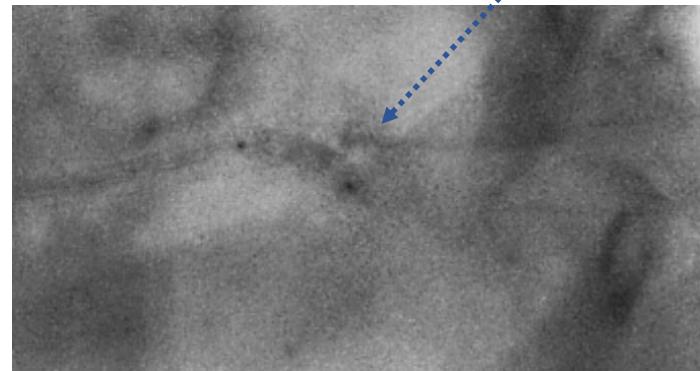
2<sup>nd</sup> cycle

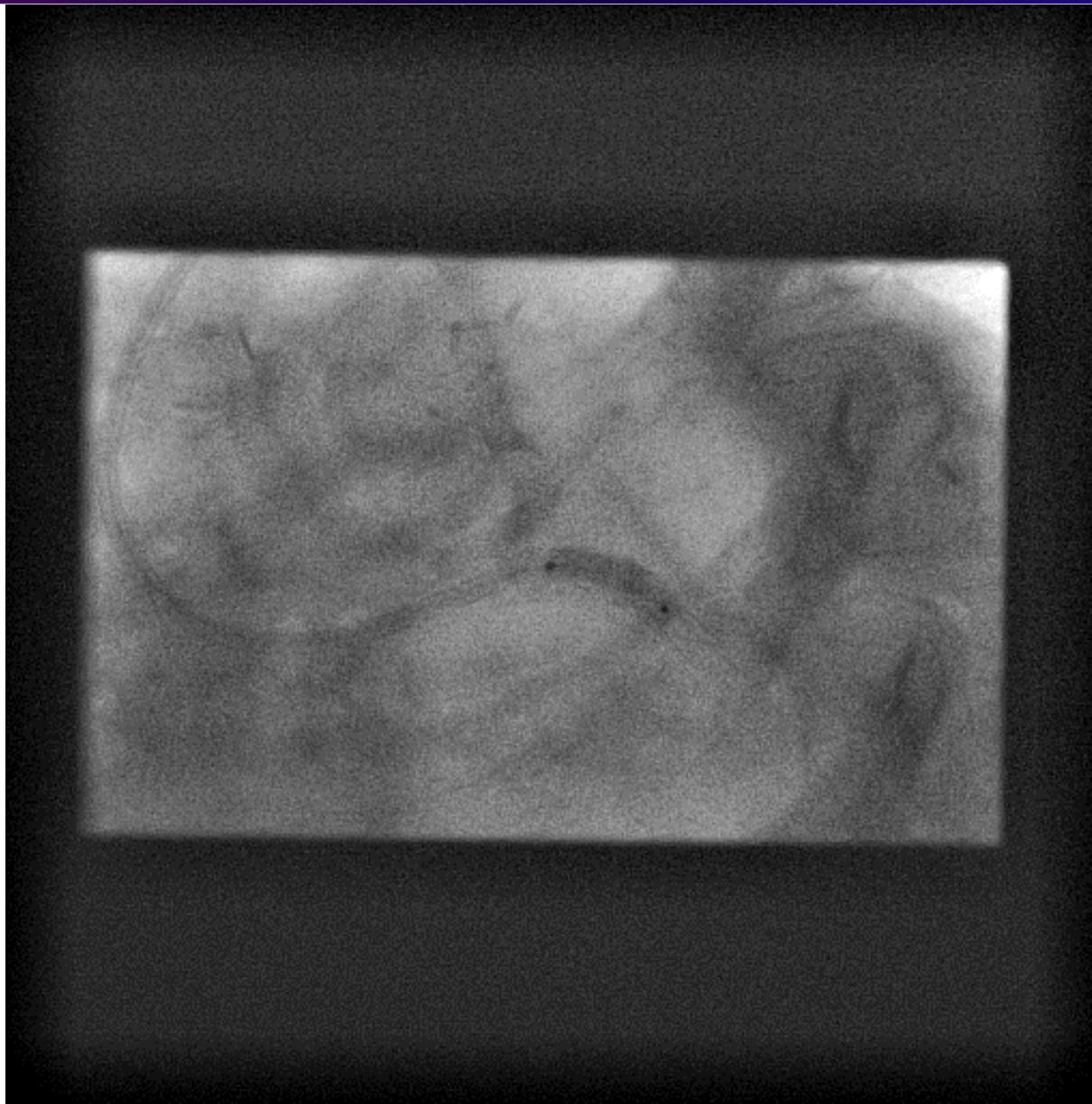


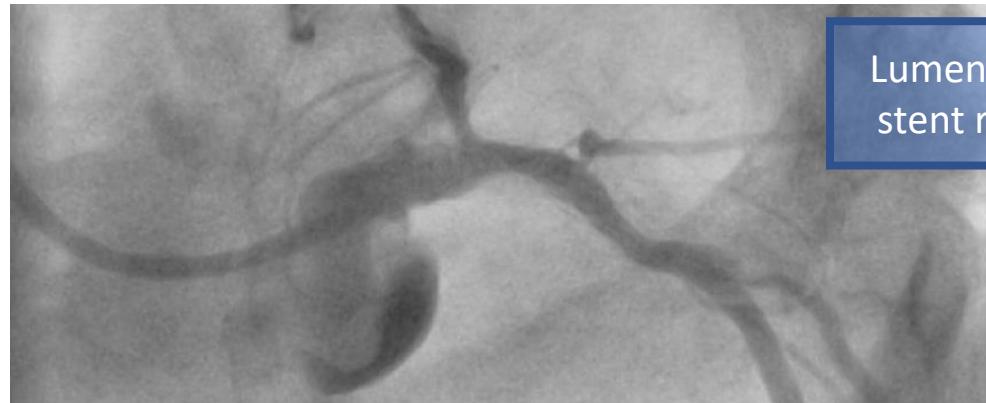
3<sup>rd</sup> cycle

4<sup>th</sup> cycle  
**RUPTURE** at 6 atm

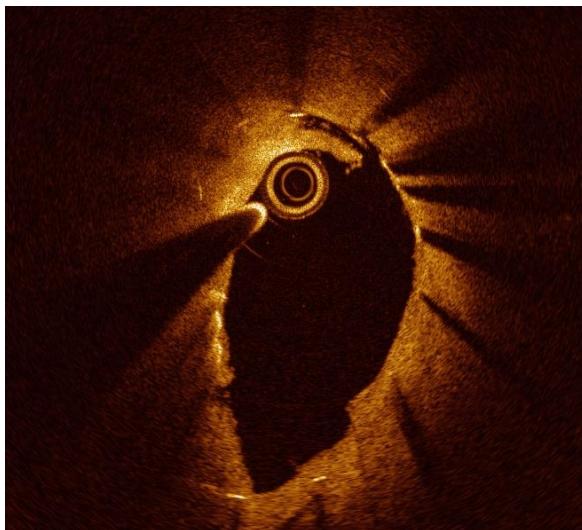
Balloons expanded properly



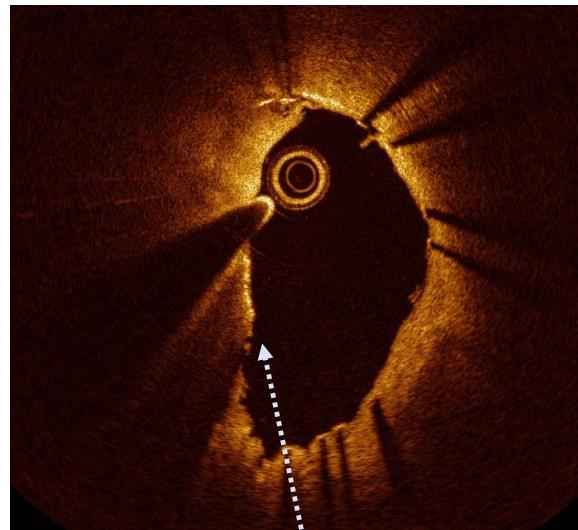




Lumen gain achieved, however  
stent remains underexpanded



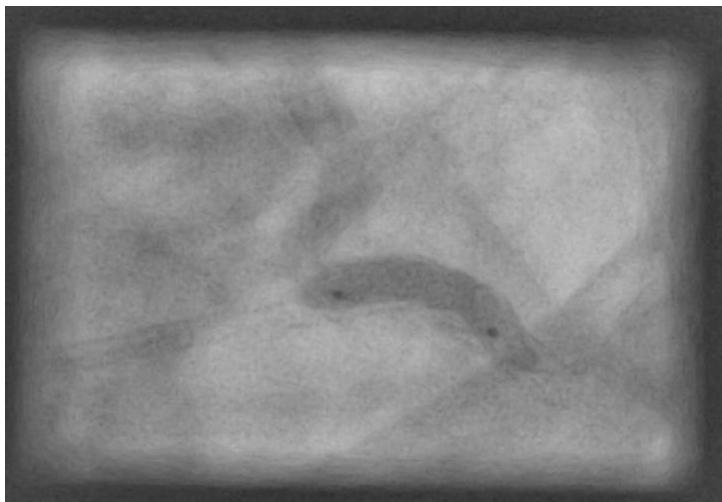
Former site of MLA  
5.1 mm<sup>2</sup>



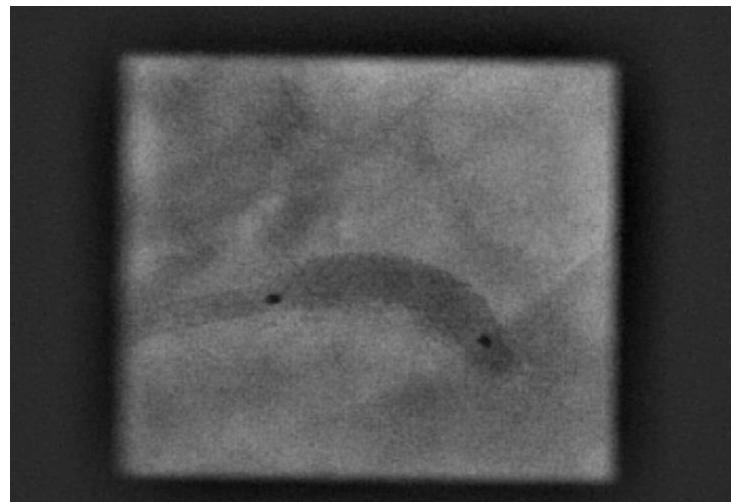
Former site of  
pointed calcification



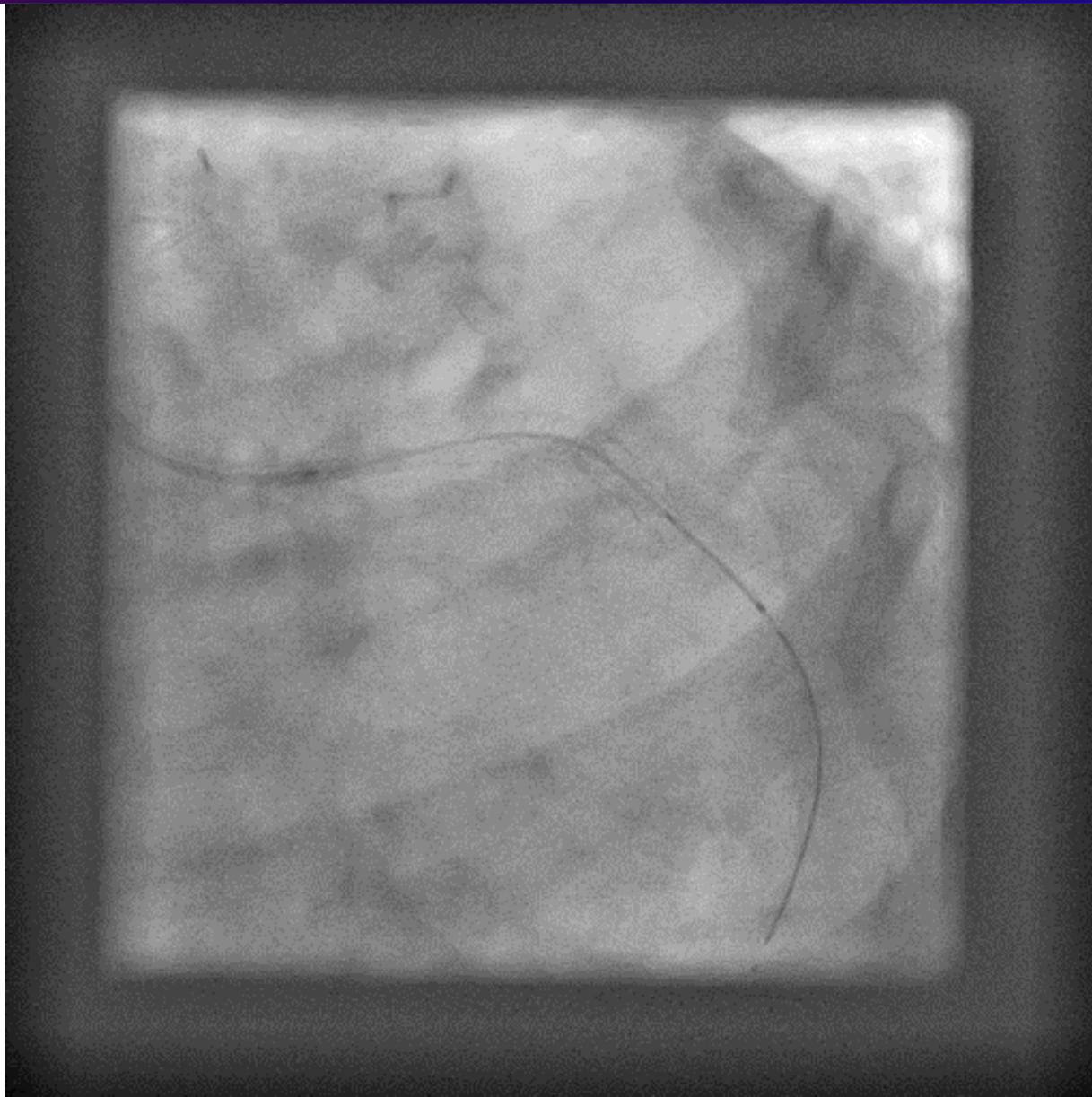
Calc-crack in the old stent  
A sign of proper preparation  
at this site



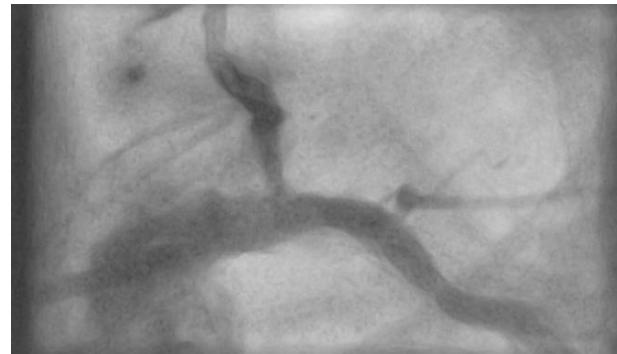
Non-compliant balloon  
3.5x15 mm, 3x 26 atm



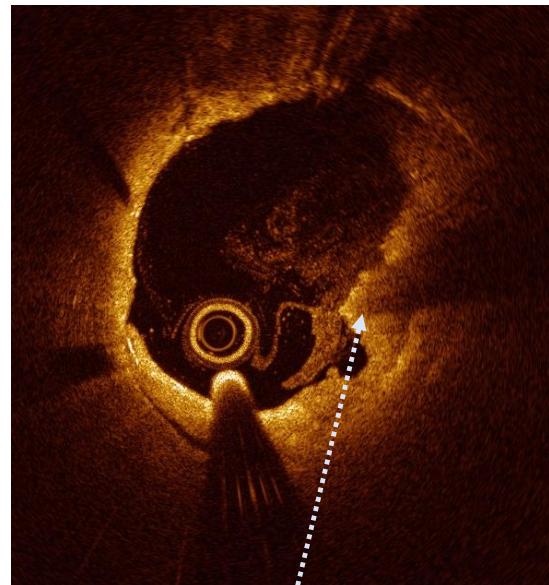
2x drug coated balloons  
3.5x20 mm, 2x 26 atm, 2x 45 seconds



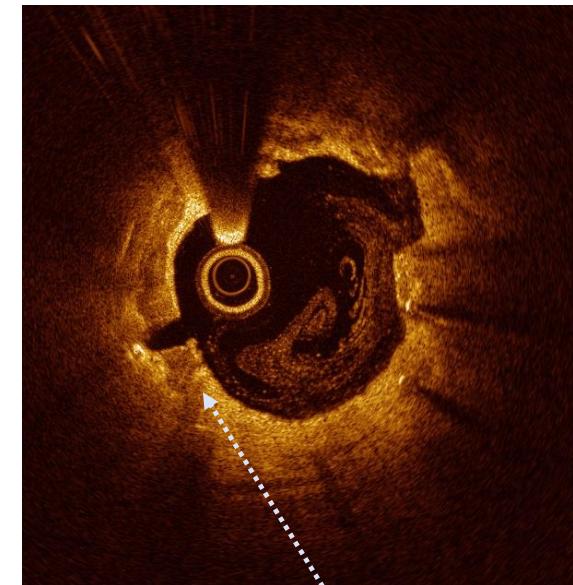
## Final angiogram and OCT



Former site of MLA  
5.5 mm<sup>2</sup>



Former site of pointed calcification



Calc-crack in the old stent

We accepted the intimal tear and did not implant an additional DES to avoid stent in stent

Angiographic follow-up is scheduled in 6 months

## TAKE HOME MESSAGES

- The lithoplasty balloon can rupture, although following the instruction for users.
- A possible cause might be balloon laceration by pointed calcifications or overhanging struts of underexpanded stents.
- Adequate lesion preparation prior to stent implantation is mandatory.
- The management of an underexpanded stent is more difficult than proper lesion preparation before stent implantation.
- Imaging and stent enhancing technology help to understand the lesion.