

14<sup>th</sup>

**AICT**

ASIAN INTERVENTIONAL CARDIOVASCULAR THERAPEUTICS  
THE OFFICIAL CONGRESS OF APSIC

**STENT TRAPPED IN  
AORTIC SINUS AND LEFT  
MAIN CORONARY  
ARTERY**

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# Conflicts of Interest

Speaker's name : Anupam, BHAMBHANI, Bangalore

- I do not have any potential conflict of interest

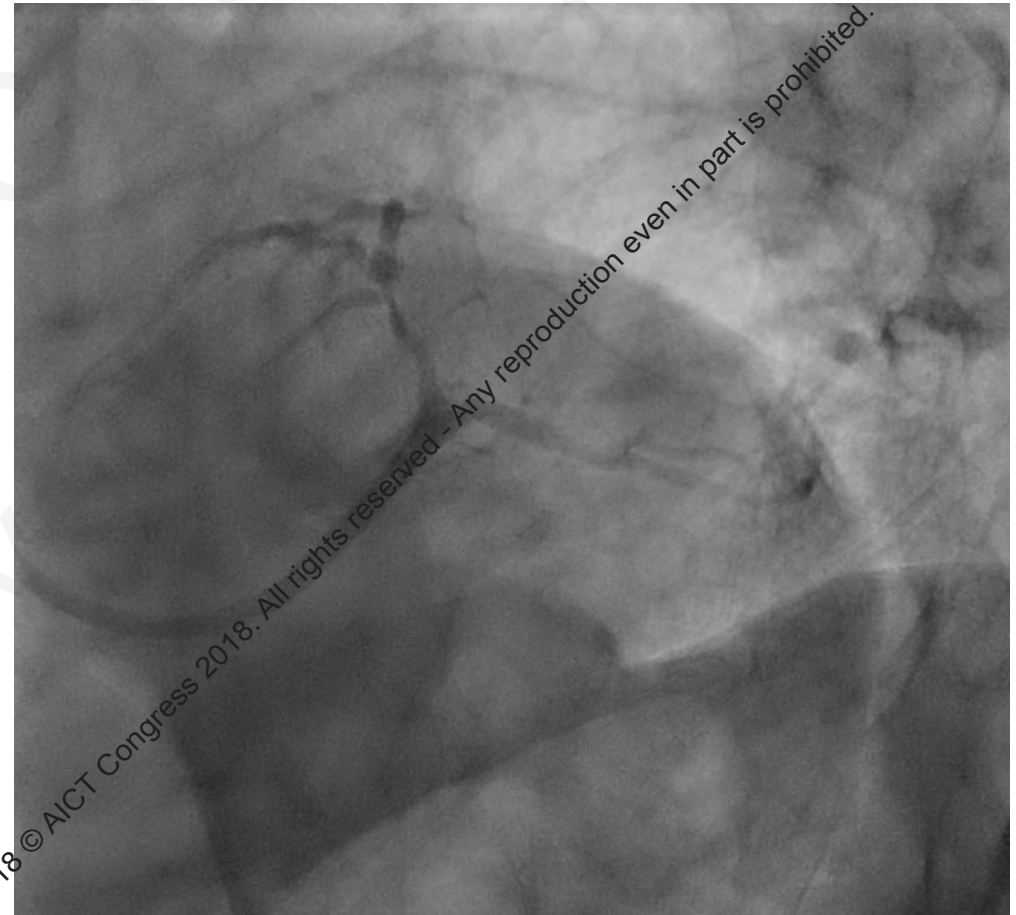
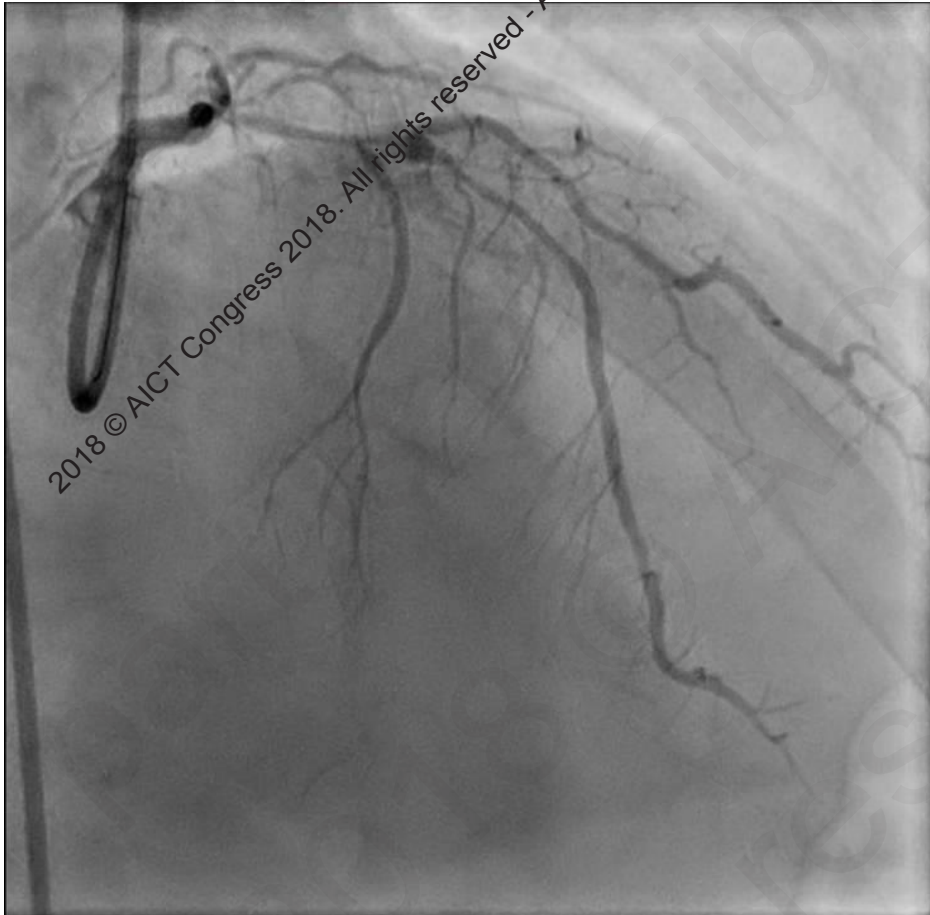
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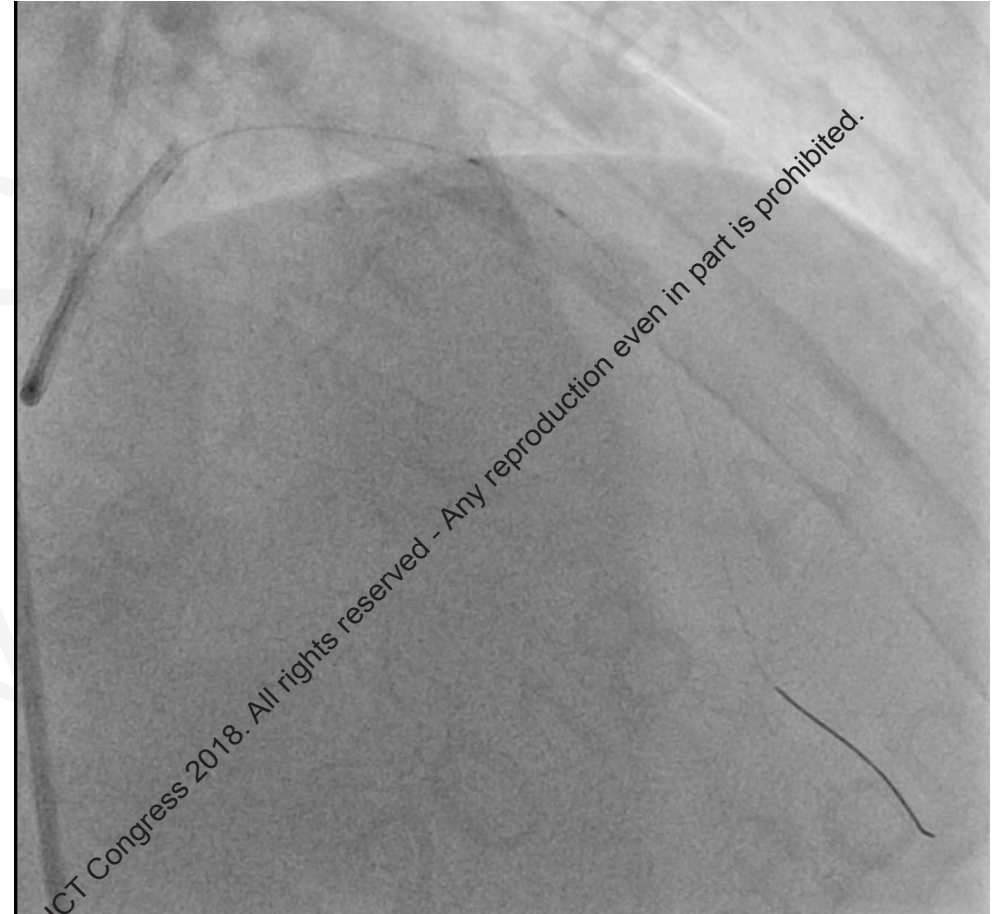
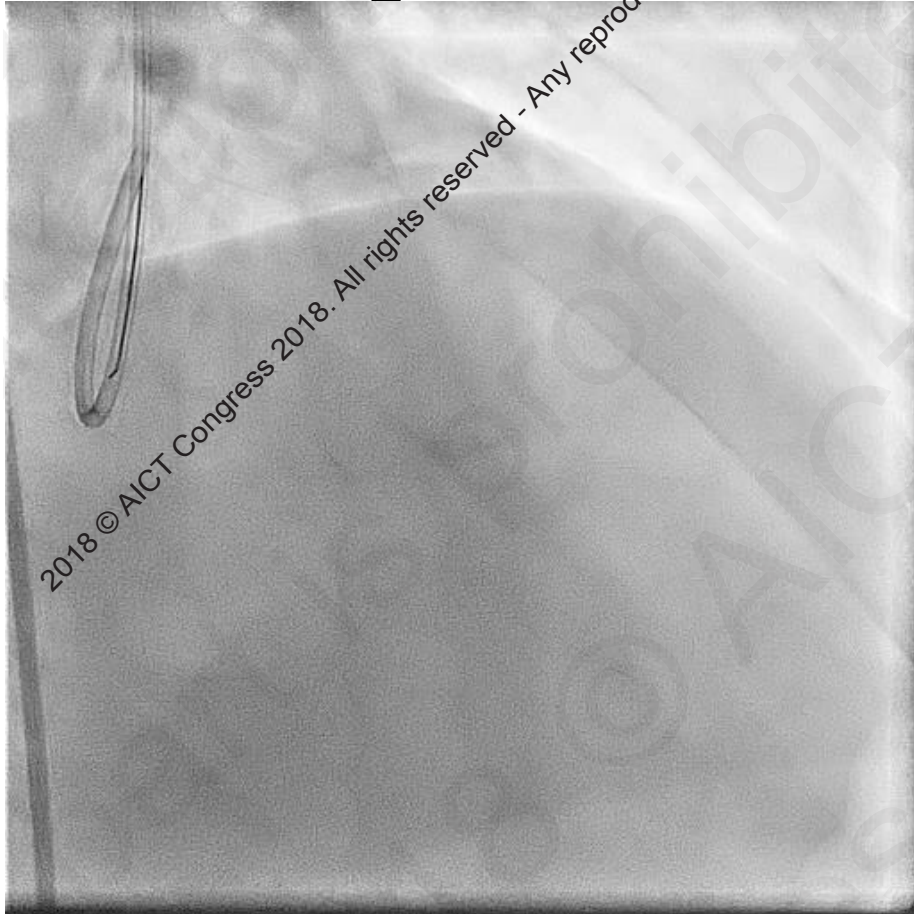
# CLINICAL PRESENTATION

- A 56-year old gentleman, presented with angina on exertion CCS class II for 1 month
- Modifiable CVRF: none (normotensive, non-diabetic)
- ECG: old IWMI
- Echo: all inferior and infero-lateral segments were akinetic, LVEF 48%
- Coronary angiogram:
  - RCA: diffusely diseased up to PDA and PLV and not graftable
  - LAD: multiple significant lesions in proximal, mid and distal segments
  - LCX: non-dominant, no significant stenoses.

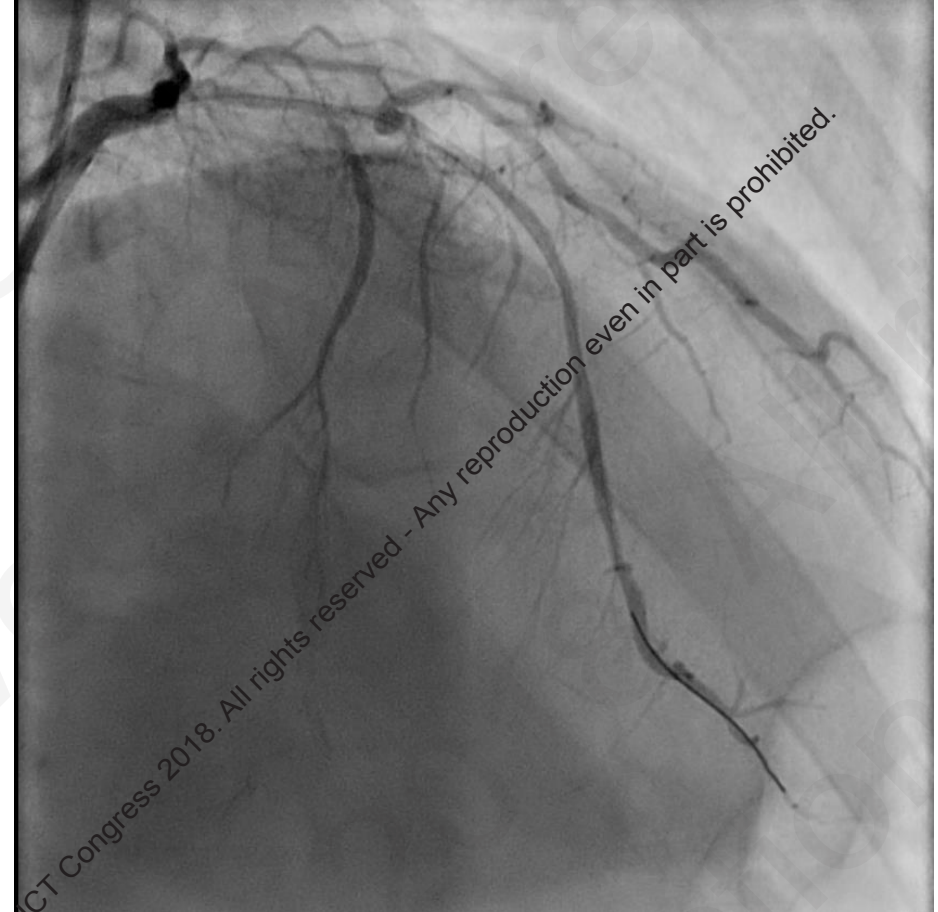
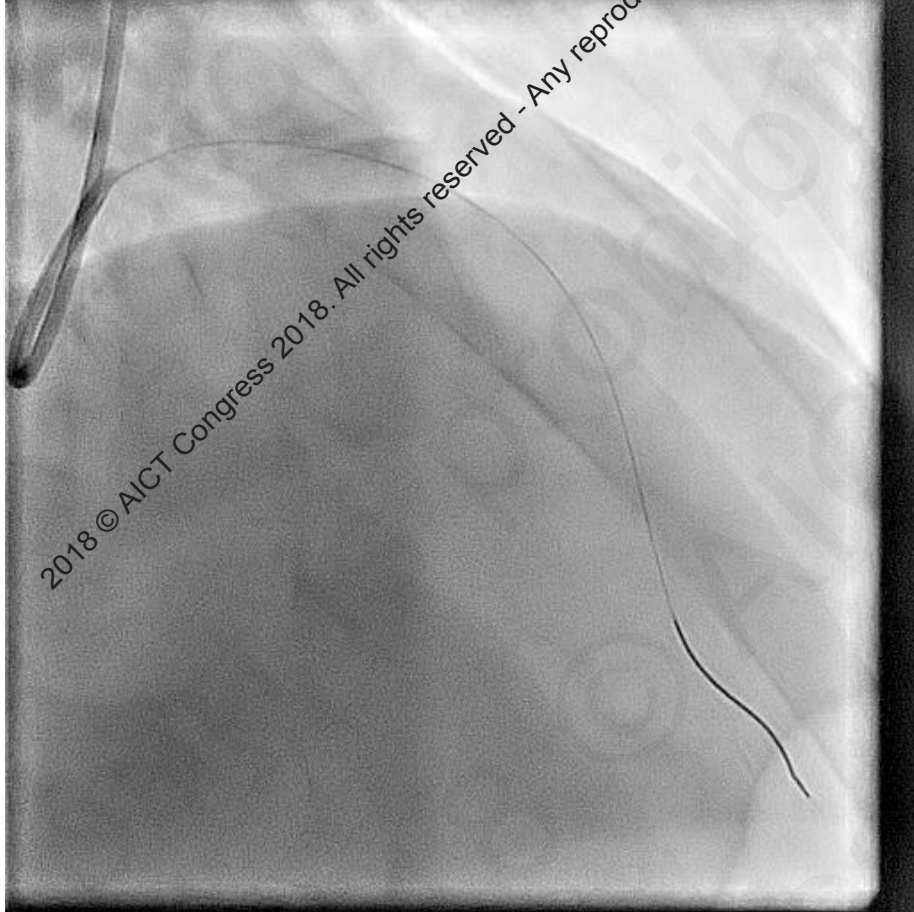
# Baseline LCA angiogram (PA-cranial and LAO caudal views): long segment LAD disease without angiographically obvious calcium



**Serial pre-dilatations were done throughout the lesion length using 2x12mm and 2.5x15mm semi-compliant balloons**



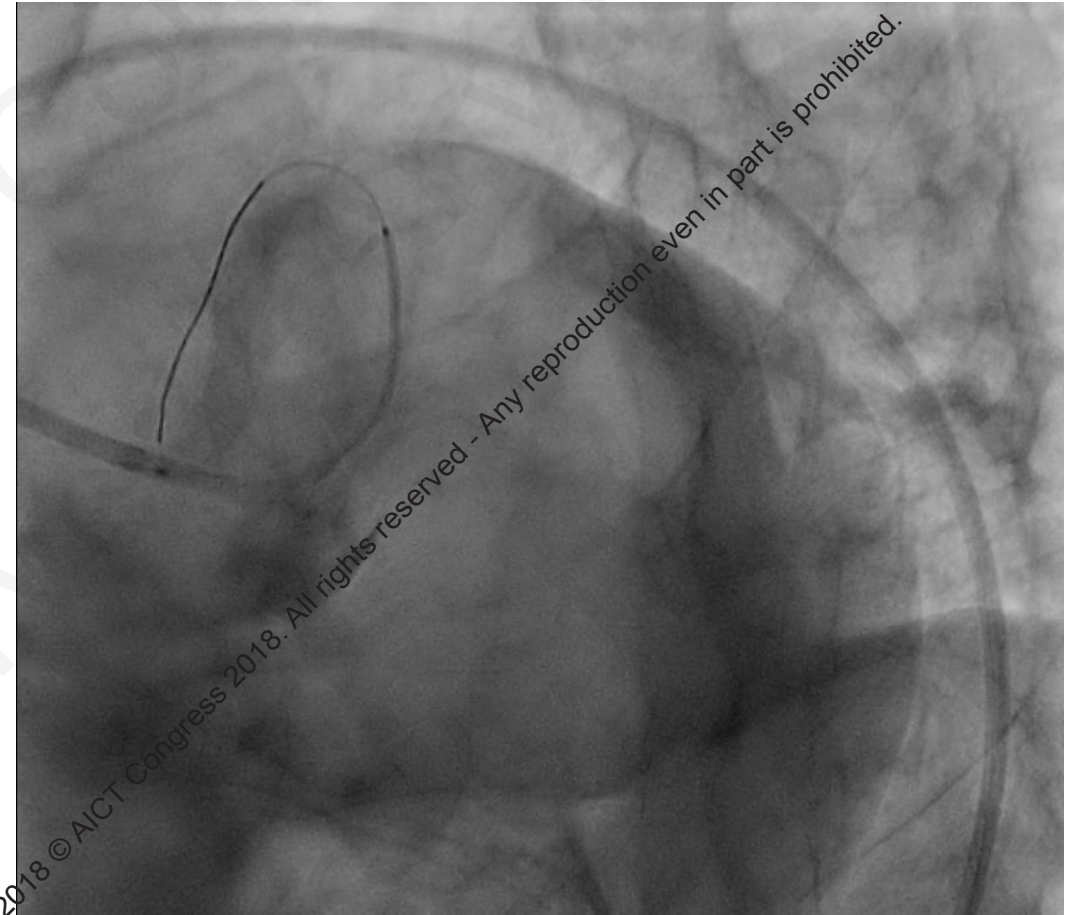
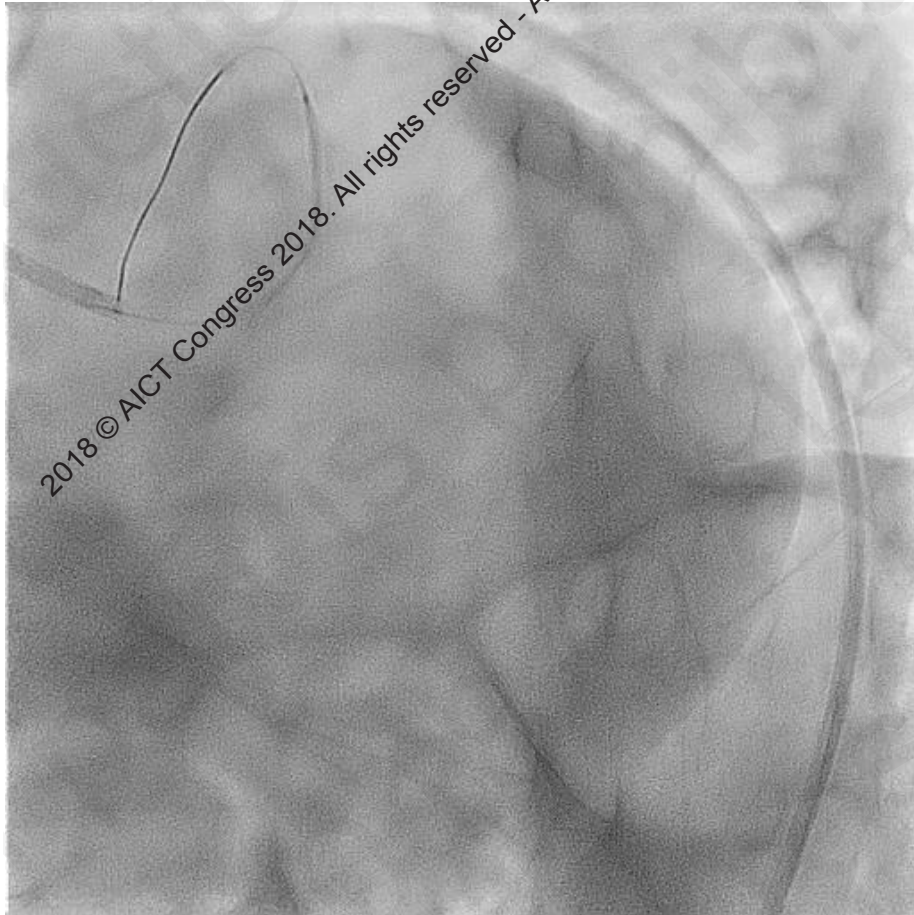
# Non-flow limiting dissections seen after pre-dilatations



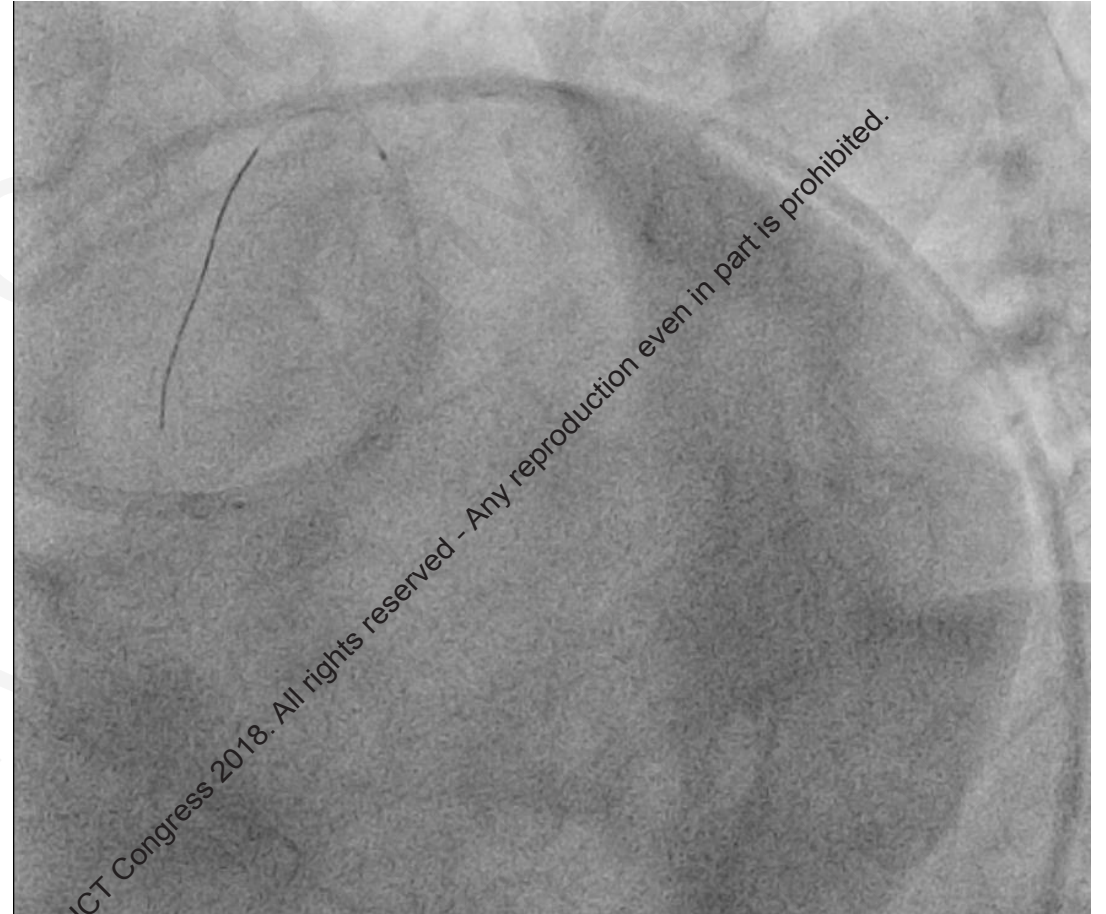
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**A 2.75x48 mm SES was being advanced toward stenosis, when it got trapped in Aortic sinus-LMCA-LAD; neither advancing nor retracting, despite maneuvering of catheter into deeply engaged position**



- Patient became restless and hemodynamically unstable.
- To perfuse LCA, we deployed the stent where-ever it was stationed.
- Patient's hemodynamics improved.
- Next challenge: after deployment, the deflated balloon was found entrapped.
- The only available option was to pull-out the whole catheter-wire-balloon assembly



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# Further challenges

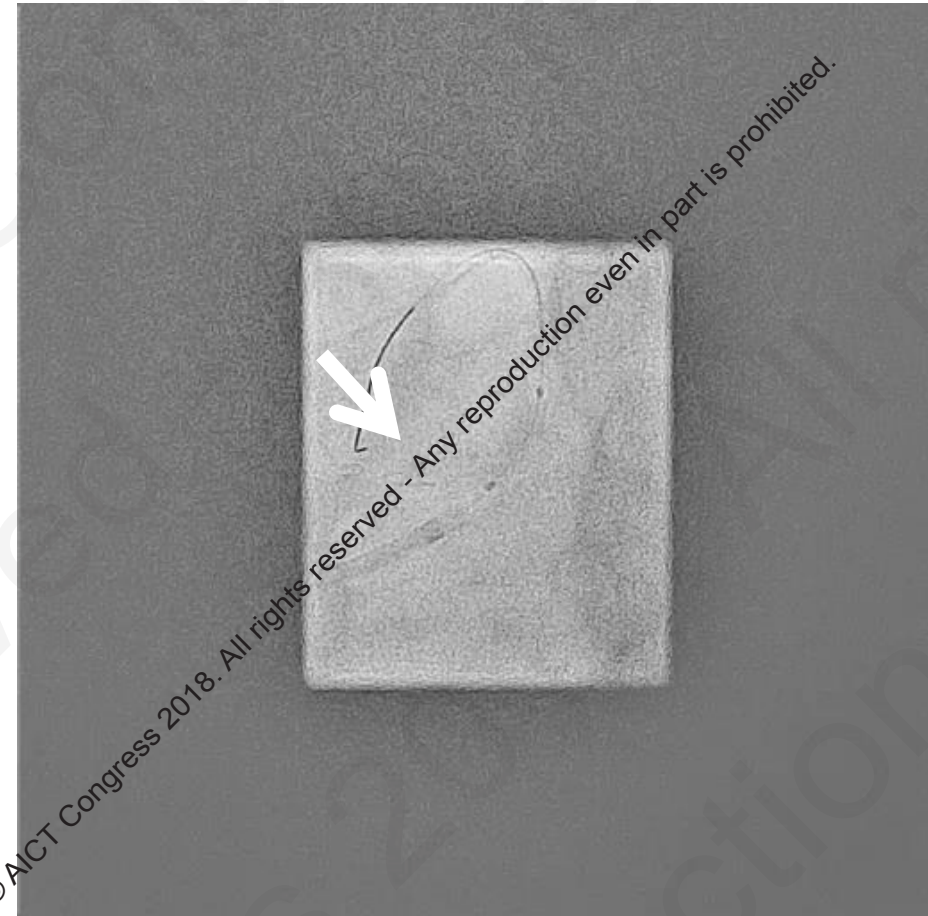
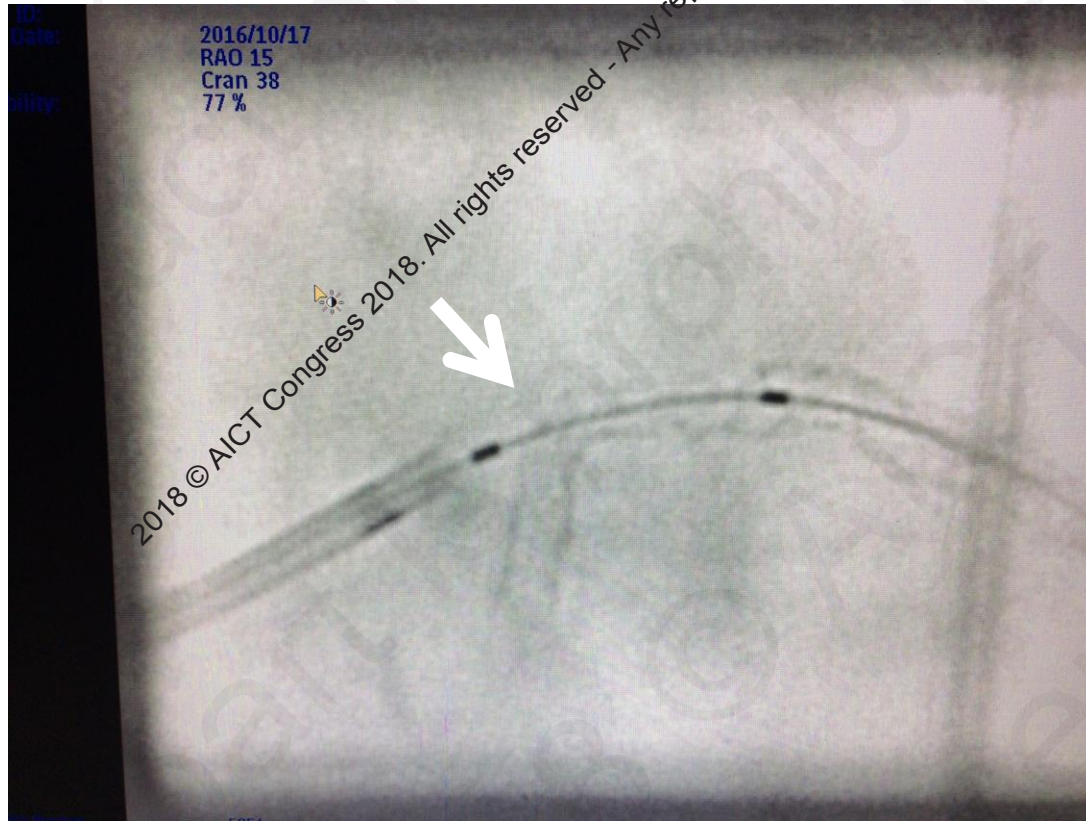


1. Residual dissected lesion in mid and distal LAD;
2. Re-engaging the guide, right onto the mouth of protruding stent and advancing second stent through freely hanging stent in aorta was almost impossible.

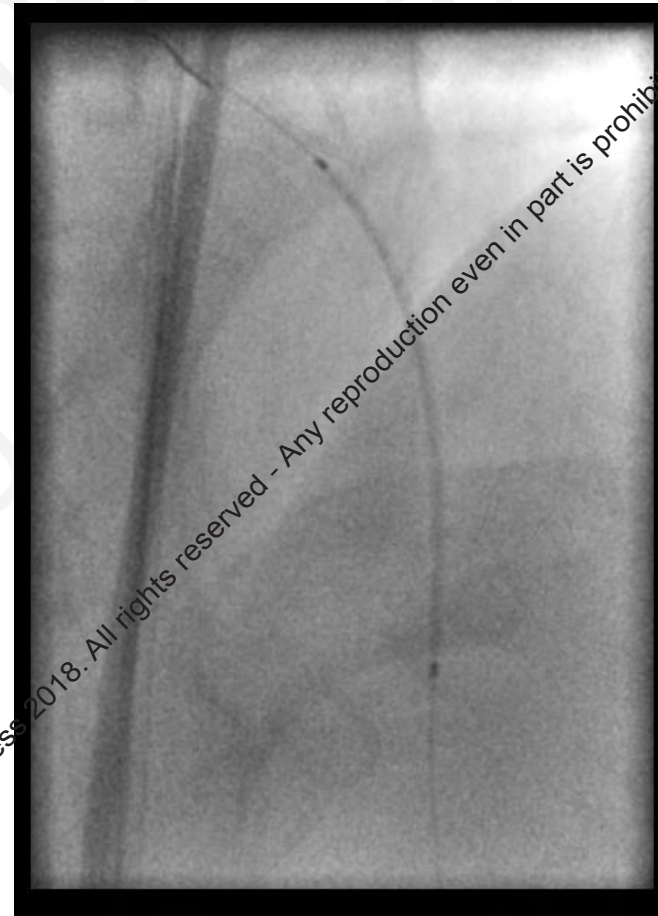
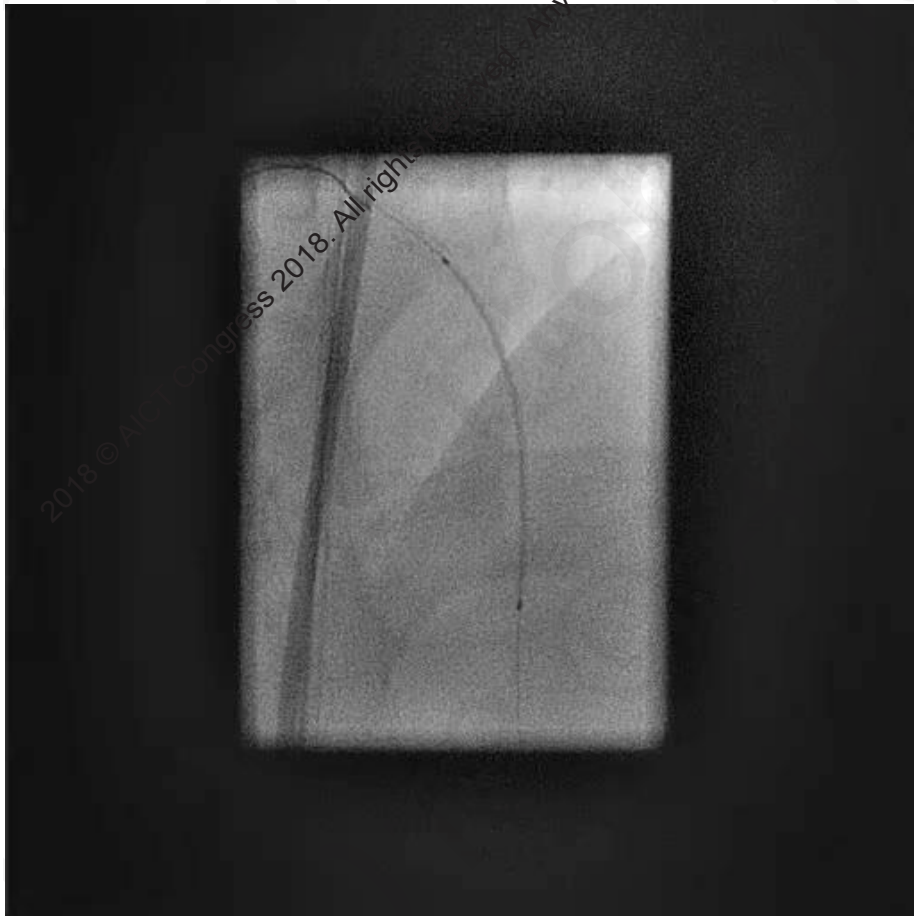
## Options

- Send for surgery
- Crush the stent to create a fresh LMCA ostium through which the second stent could be advanced.

**We crushed the stent at LMCA ostium, turning it away from the LM and created passage for the distal stent through dilated stent cells**

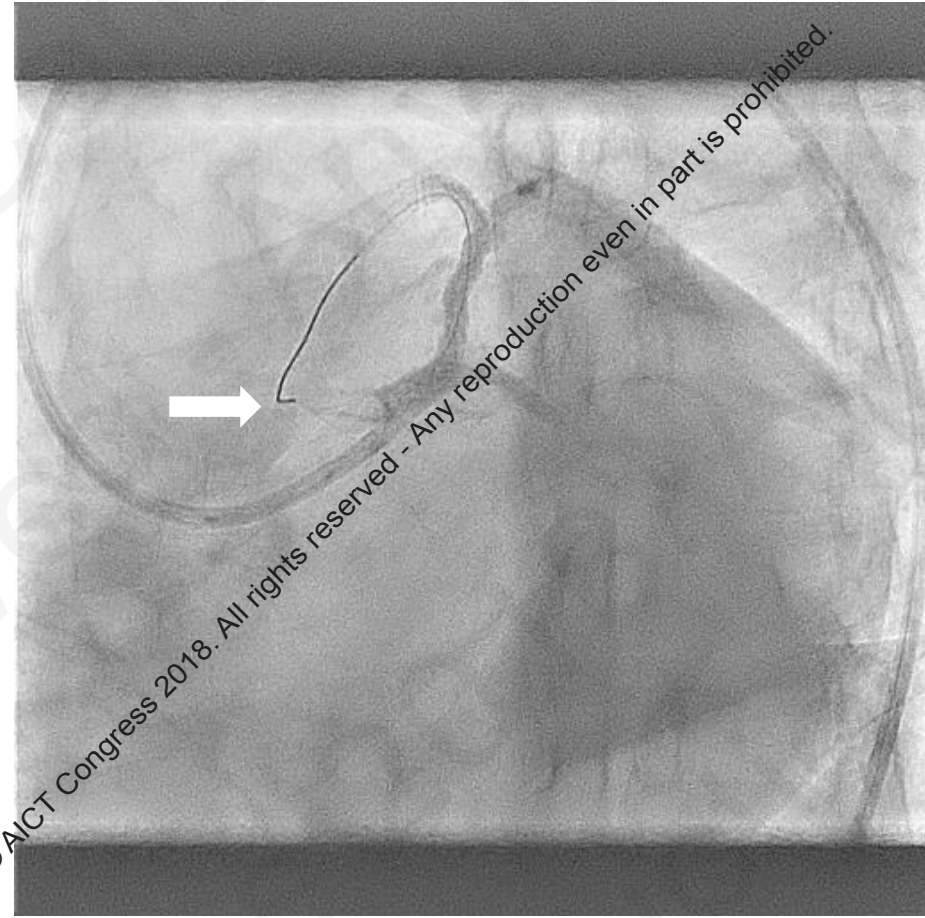
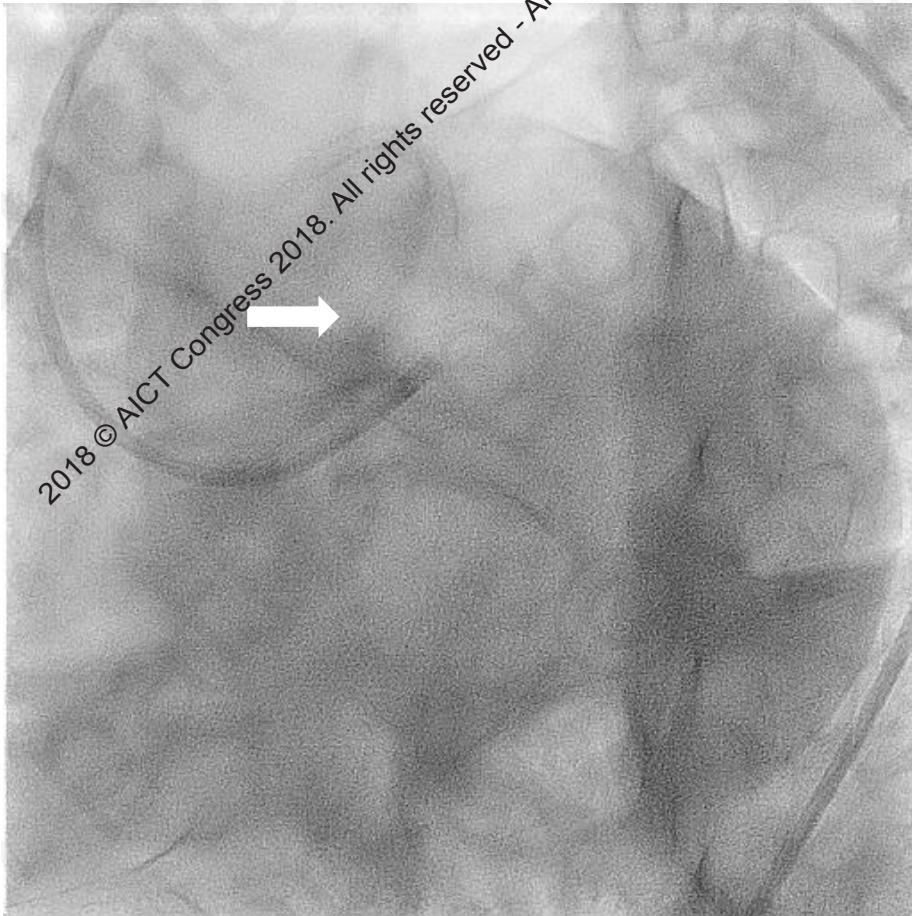


**Another 2.75x40 mm DES advanced to mid / distal LAD and deployed at 12 atmosphere, 40 msec.**

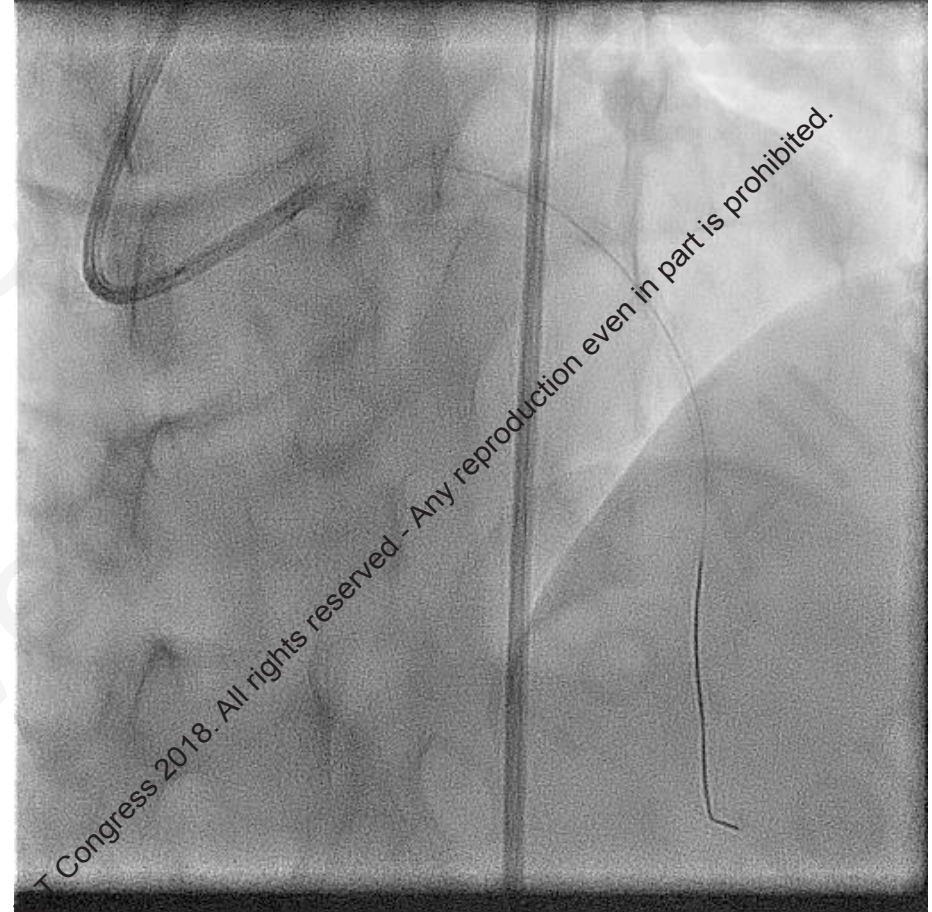
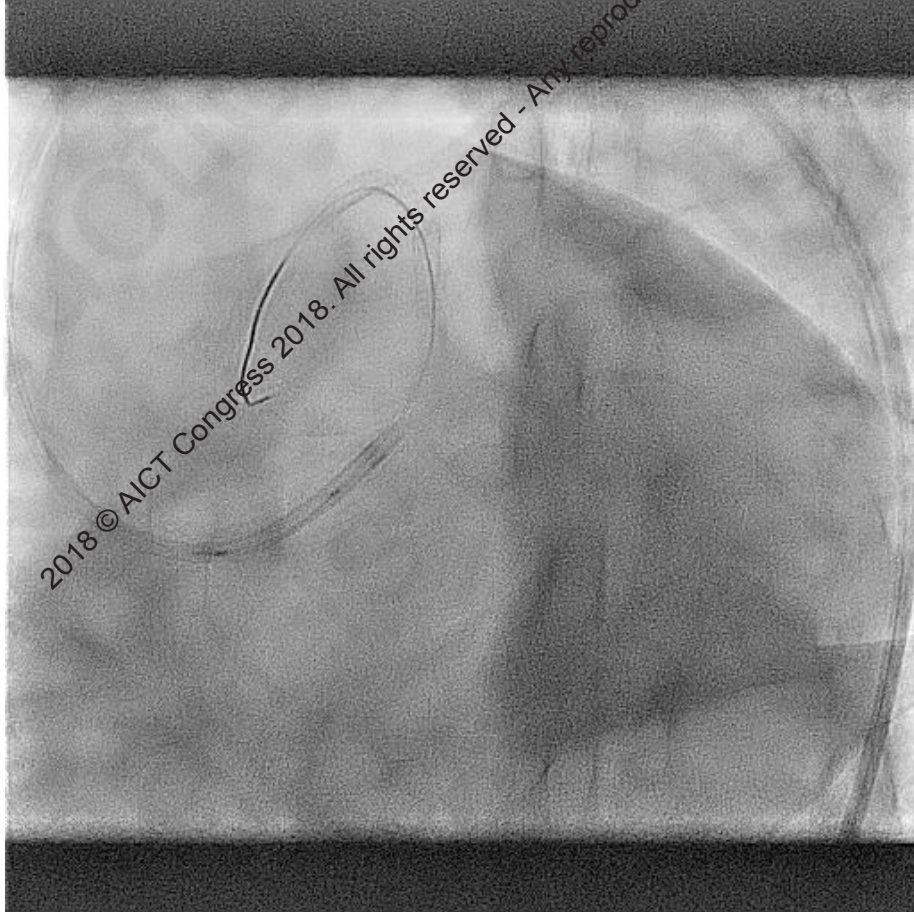


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**Repeated post-dilatations were done using non compliant balloons to enlarge the LMCA part of the first stent and to further crush the hanging stent (arrow)**



# Final result



# WHAT WE LEARNT FROM THIS CASE

- At times, hemodynamic instability precludes the surgical option; such situations may require unconventional methods.
- The probable cause for entrapment was manufacturing defect because
  - Second long stent passed easily through the same track.
  - Even the withdrawal of stent balloon was difficult after stent deployment.
- Although stent entrapments occur more often than not during PCI, we did not find any other case in the literature wherein stent was plastered away from the LMCA, creating a new ostium through which another stent could be tracked down to mid and distal LAD.

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