



# CTO PCI with Retrograde Approach

I do not have any potential disclosure

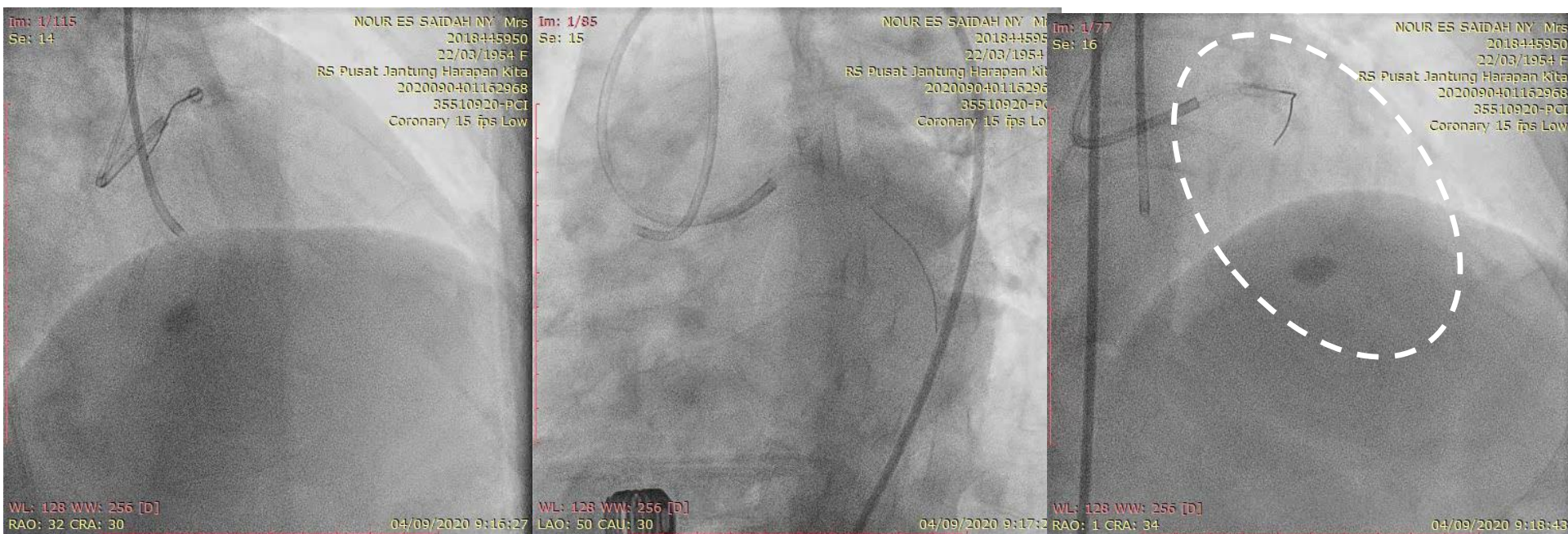


- 66-year-old woman with CCS class II angina
- Risk factors : hypertension, family history
- ECG : Sinus Rhythm
- 2D Echo : LVEF 42% , Posterior LV Hypokinetic

Patient had history of prior PCI with 3 DES in LAD (April 2017), LCx (December 2017), and RCA (March 2017)

# Diagnostic Coronary Angiography

## CAD 3 VD with grade IV ISR at the LAD



Target Vessel :  
Proximal LAD

ASSESSMENT	
Proximal Cap	Blunt
Length	> 20 mm
Calcification	Absence
Bending > 45°	No
Re-Try Lesion	Yes

J-CTO Score : 3

- Dual angiography
- Vascular access :
  - Right radial artery to RCA : 6F sheath with GC JR 3.5 mm / 6F
  - Right femoral artery to LCA : 8F sheath with GC BL 3.5 mm / 7F
- Antegrade wire escalation
- Microcatheter
- Retrograde wire escalation

# Antegrade Wire Escalation Fielder XTA – GAIA 3<sup>rd</sup> – Conquest Pro 8 – 20 with Microcatheter Crusade to LAD

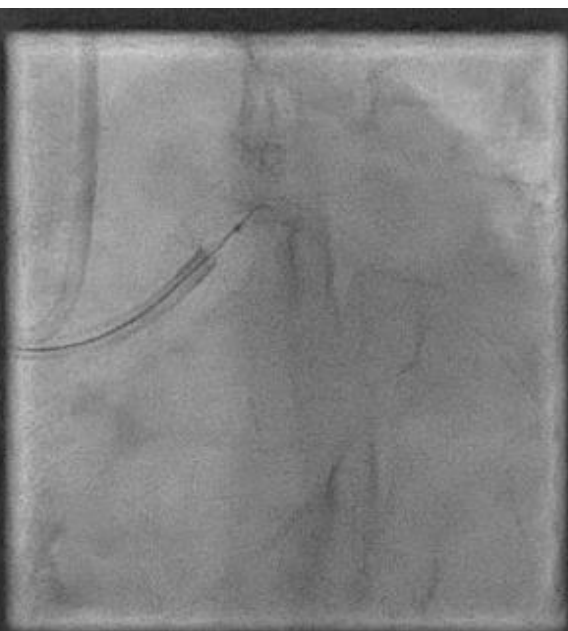
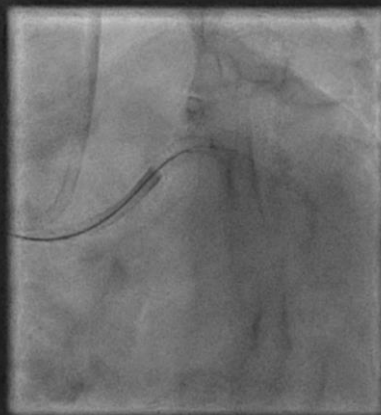
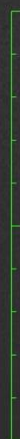
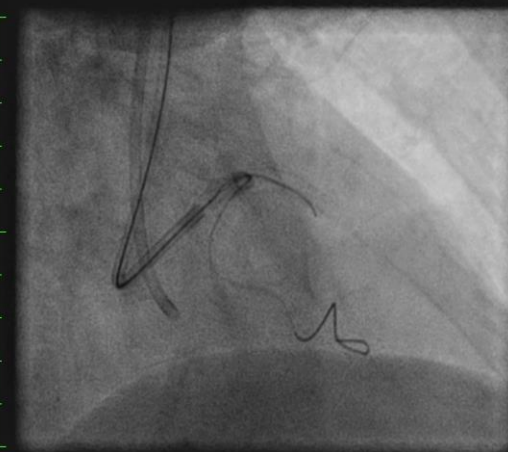


Image size: 512 x 512  
WL: 128 WW: 256



Zoom: 276%  
Im: 1/150 Series: 20  
JPEGLossless:Non-hierarchical-1stOrderPrediction

2018445950 ( 66 y , 66 y ) Image size: 512 x 512  
35510920-Pci WL: 128 WW: 256  
Cardiac



04/09/20 09.43.27 Zoom: 276%  
4 hr, 1 min Im: 1/13 Series: 30  
Made In OsiriX JPEGLossless:Non-hierarchical-1stOrderPrediction

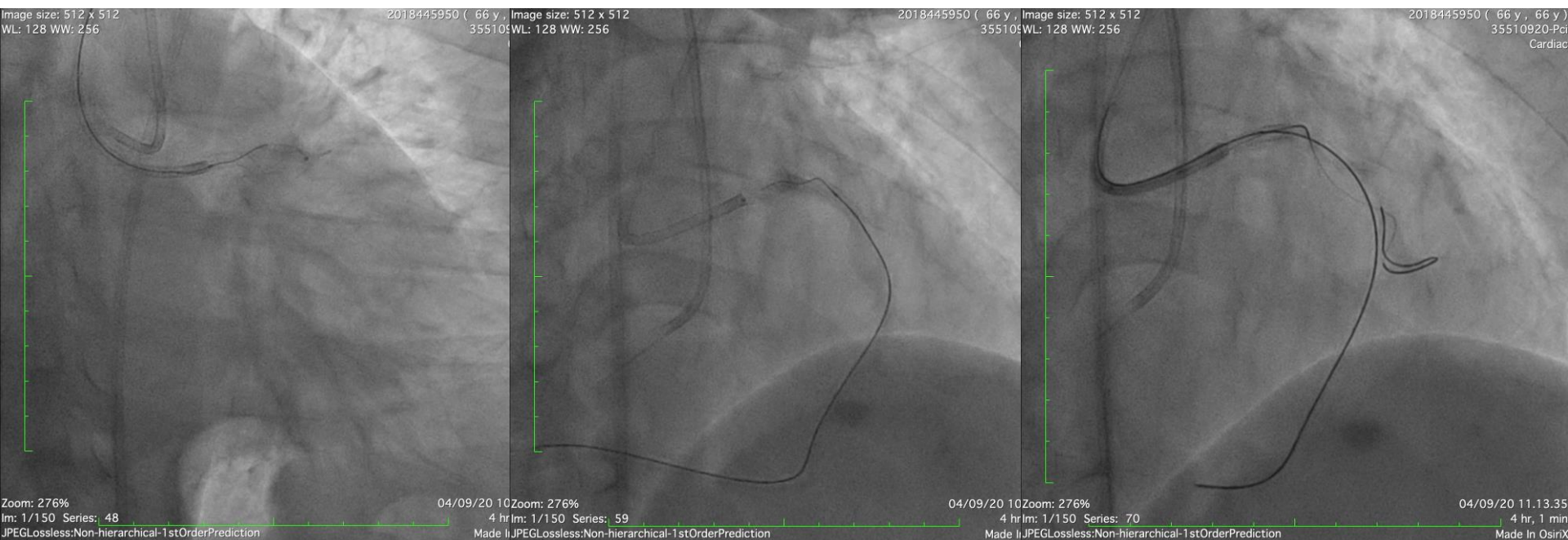
2018445950 ( 66 y , 66 y ) Image size: 512 x 512  
35510920-Pci WL: 128 WW: 256  
Cardiac

04/09/20 10.09.51  
4 hr, 1 min Im: 1/13 Series: 30  
Made In OsiriX JPEGLossless:Non-hierarchical-1stOrderPrediction

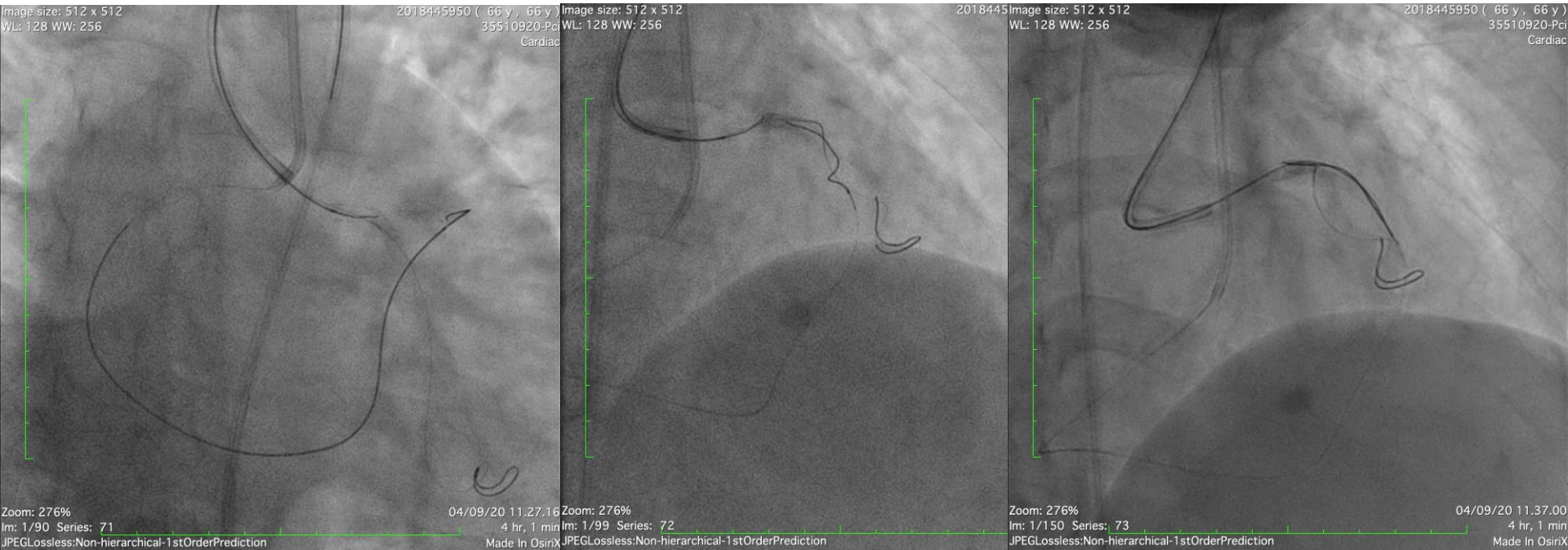
# Retrograde Approach – Wire SION with Microcatheter Finecross from distal RCA – septal brach – proximal LAD



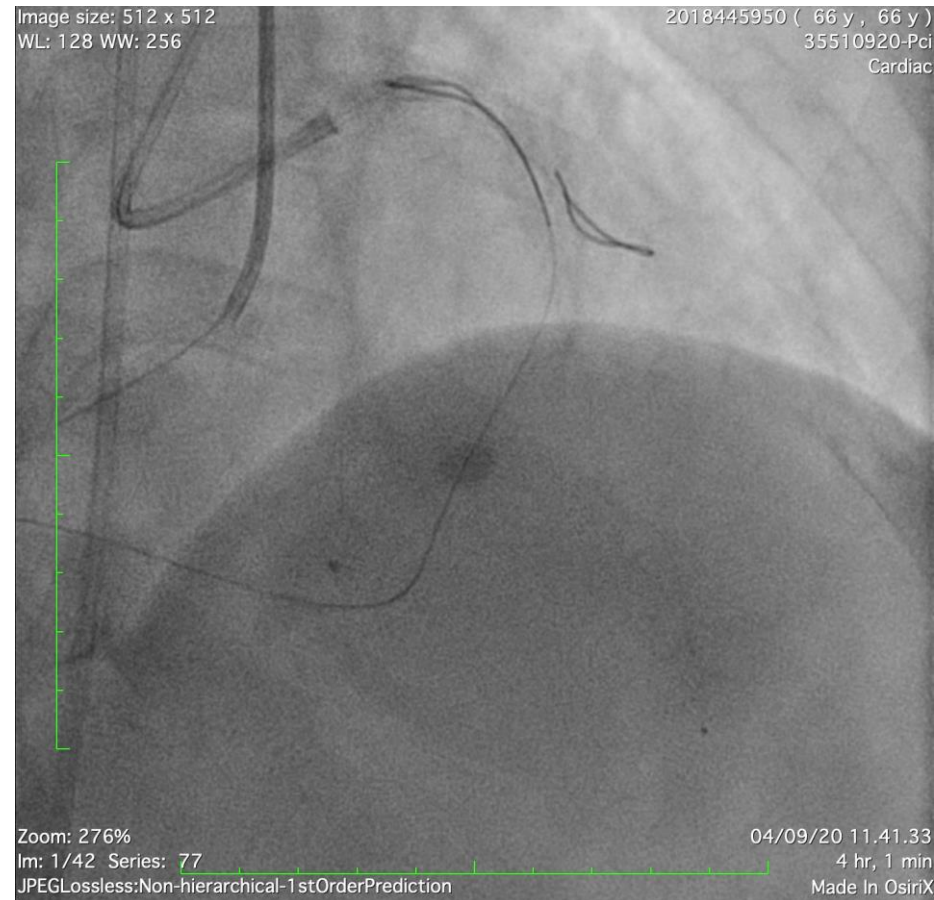
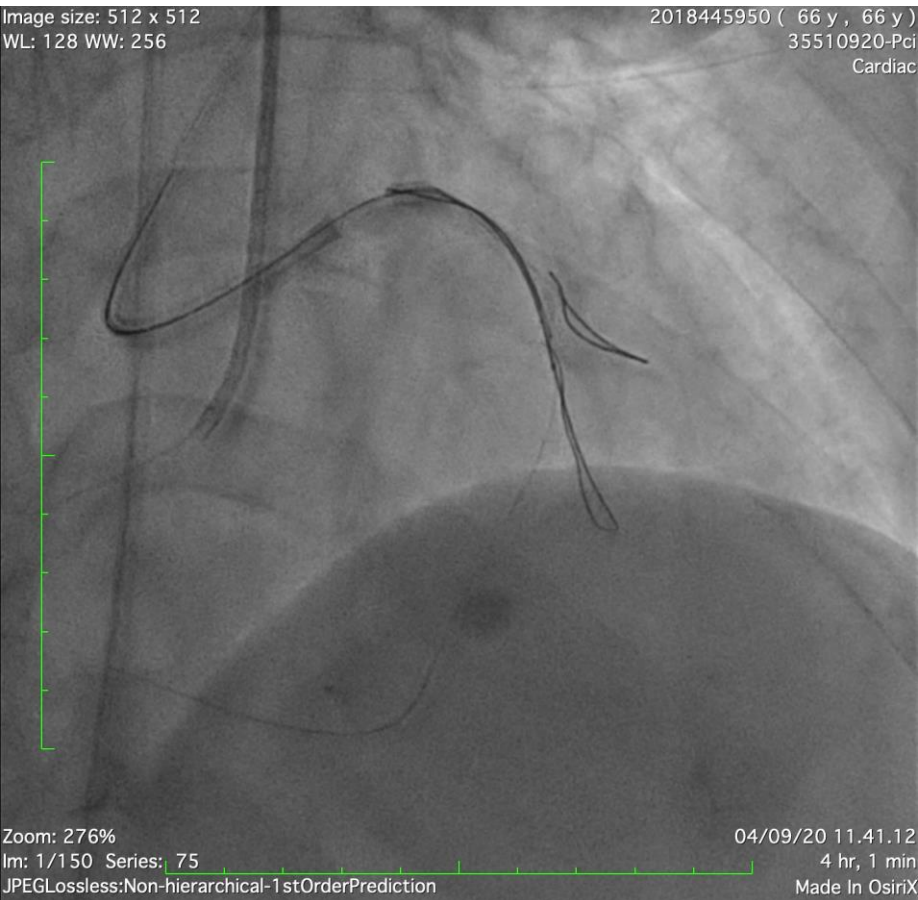
# Wire Escalation from SION BLUE – Conquest Pro 8-20 to osteal LAD and GC BL 3.5/7F



# Antegrade Approach – Wire Fielder XTA with Microcatheter Finecross to distal LAD

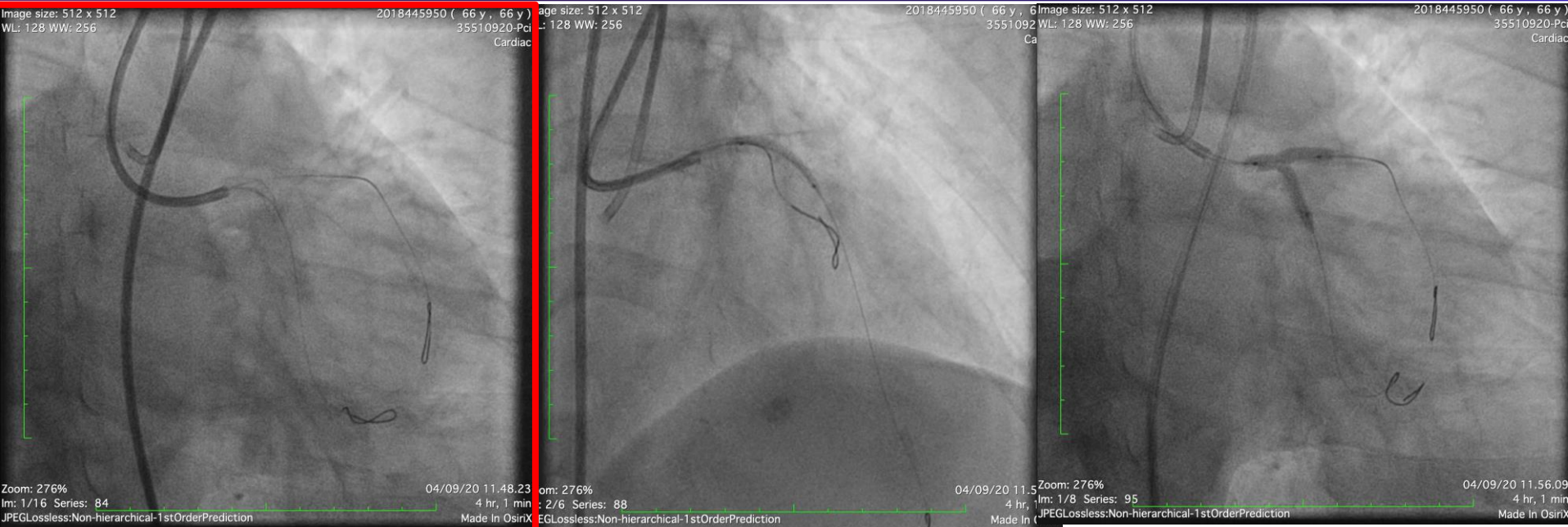


# Antegrade Approach – Wire Fielder XTA with Microcatheter Finecross to distal LAD



Contrast Injection Showed True Lumen of LAD

# Lesion Preparation and Kissing Balloon



1st Lesion  
Preparation :  
Pre-Dilatation mid to  
osteal LAD

Ikazuchi 1.5 x 15 mm

2nd Lesion  
Preparation :  
Pre-Dilatation mid to  
osteal LAD

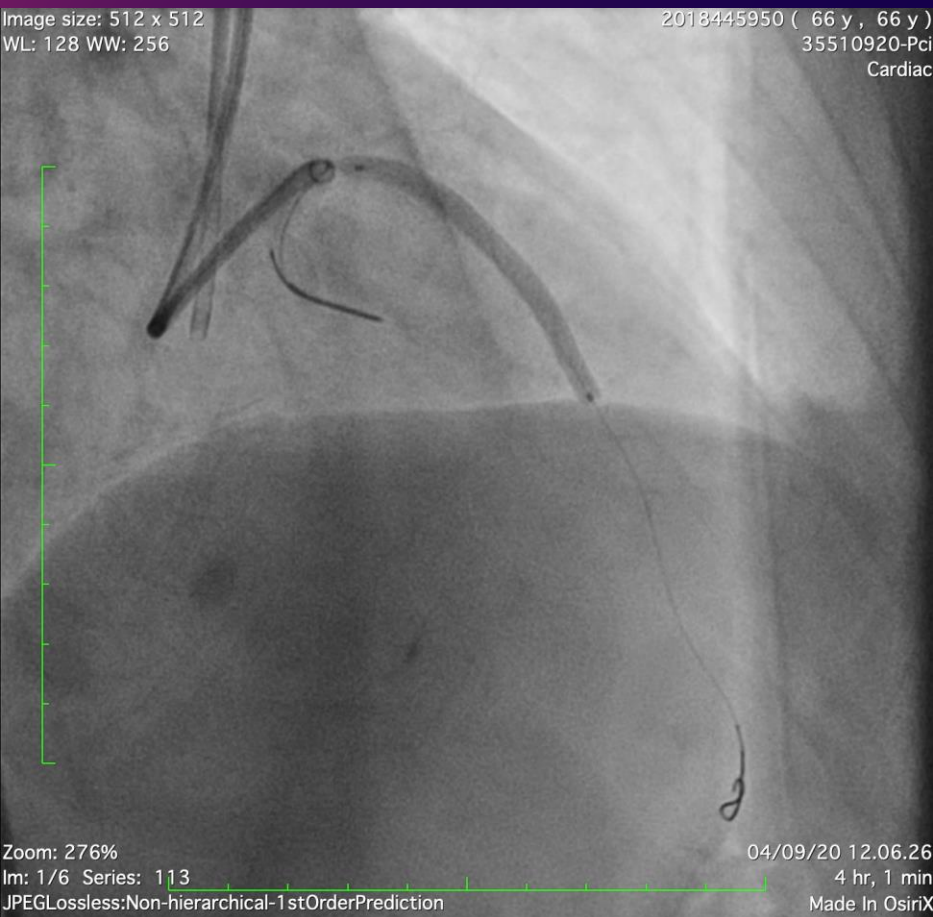
Ryujin 2.0 x 20 mm

Kissing Balloon

LAD : Ryujin 3.5 x 15  
mm

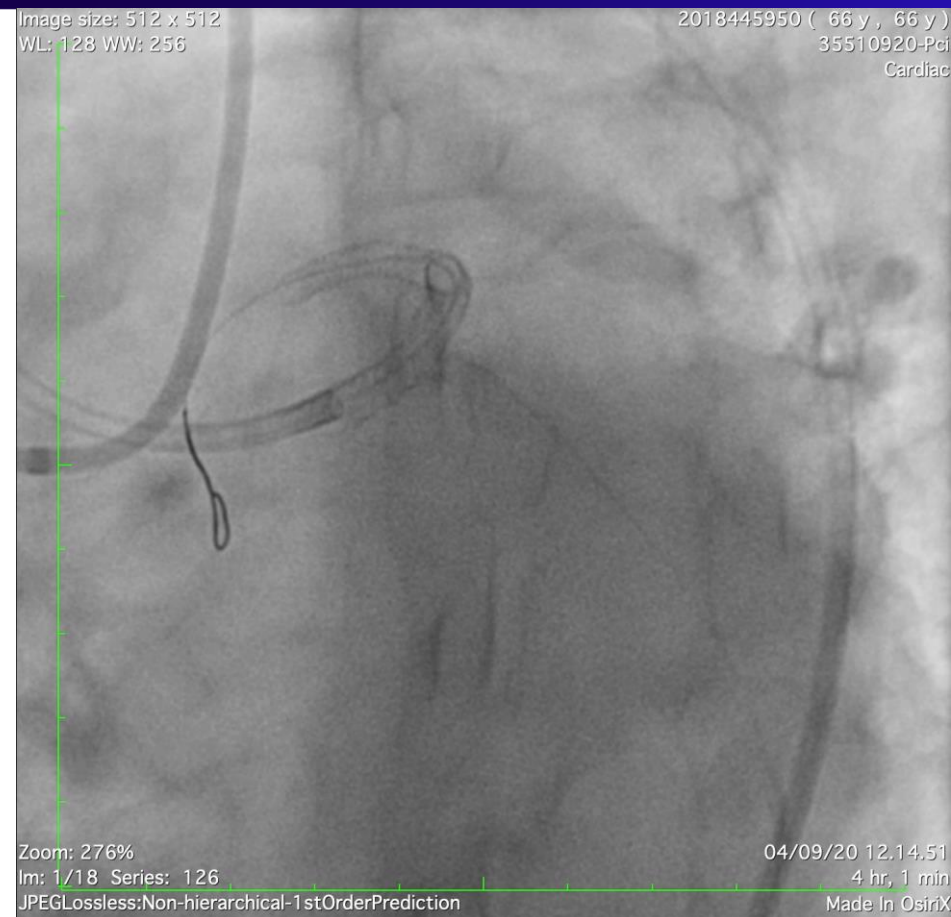
LCx : Ryujin 3.0 x 20  
mm

# Stent Deployment



1<sup>st</sup> Stent Deployment at proximal - mid LAD

Promus Premier 3.0 x 38 mm



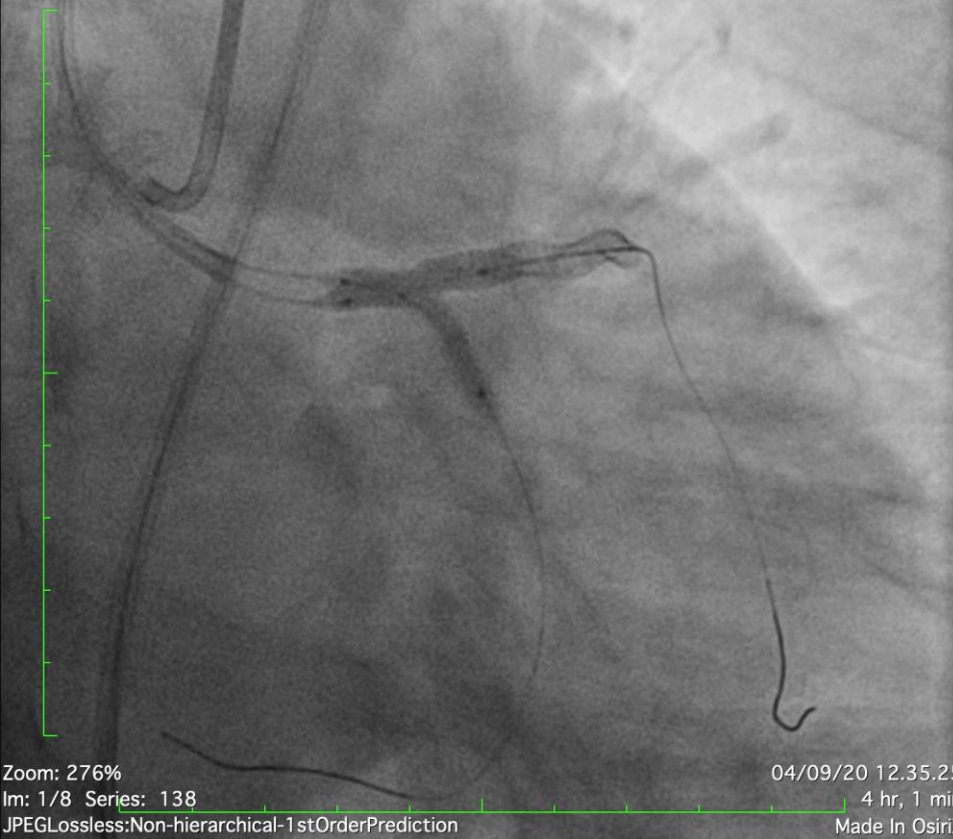
2<sup>nd</sup> Stent Deployment :  
Overlap with 1<sup>st</sup> stent in LM – proximal LAD

Promus Premier 3.5 x 20 mm

# Final Kissing Balloon & Final Angiographic View

Image size: 512 x 512  
WL: 128 WW: 256

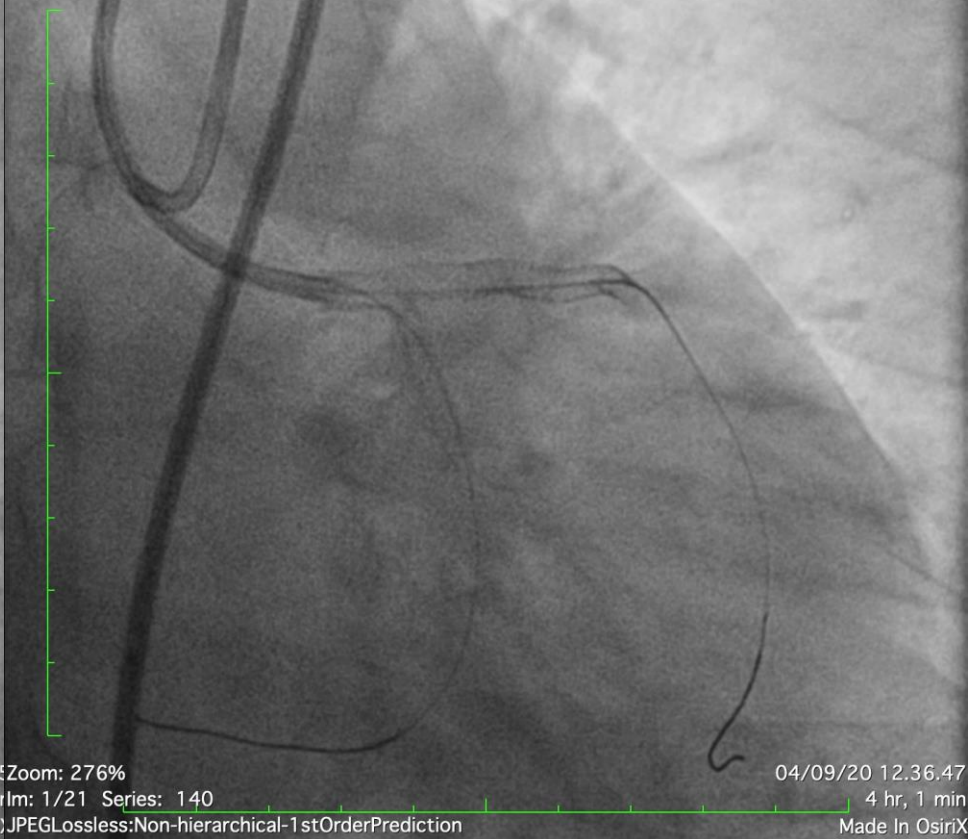
2018445950 ( 66 y , 66 y )  
35510920-PcWL: 128 WW: 256  
Cardiac



04/09/20 12.35.25  
4 hr, 1 min  
Made In OsiriX

Image size: 512 x 512  
WL: 128 WW: 256

2018445950 ( 66 y , 66 y )  
35510920-PcWL: 128 WW: 256  
Cardiac



04/09/20 12.36.47  
4 hr, 1 min  
Made In OsiriX