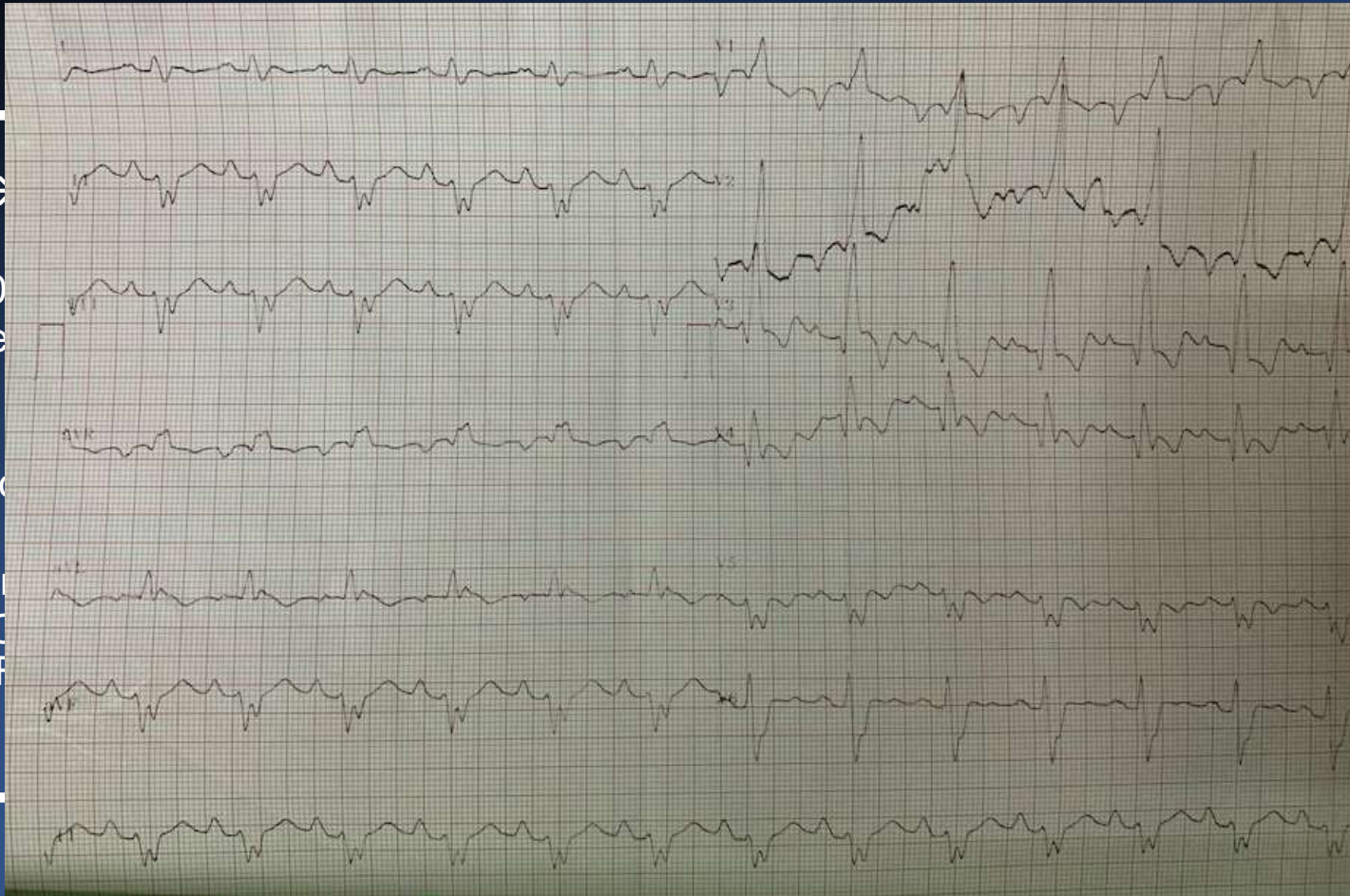


# Drug Coated Balloon Therapy for Ischemic Cardiomyopathy

Erwin Mulia  
Lampung/ Indonesia

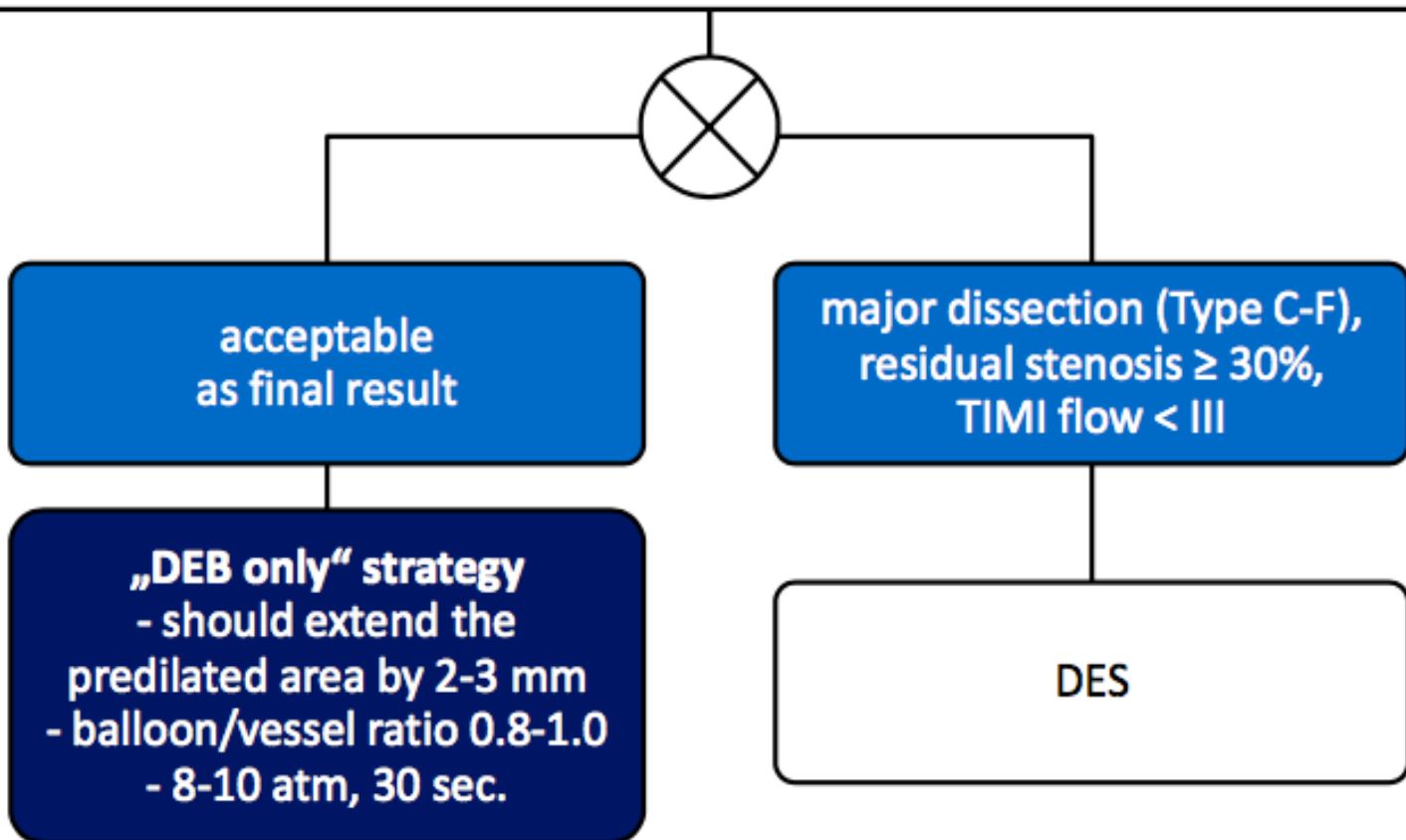
# Case Illustration



- 48 year
- CVRF →
- January 20
- He expe
- He was
- CAG →
- Due to l
- LDL 63
- DAPT; C
- 25 mg; P
- 200 mg

eparinux  
reed for PCI

**Pre-dilation with conventional balloon, balloon/vessel ratio of 0.8-1.0**



SC S

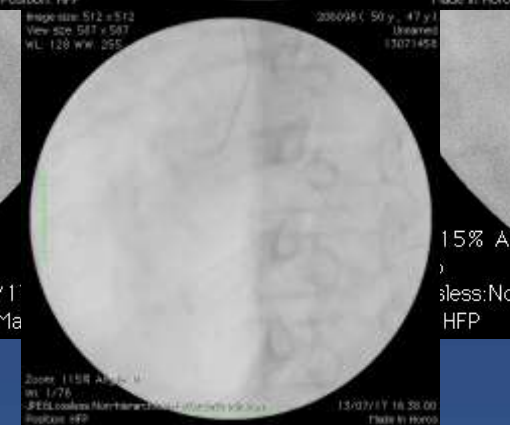
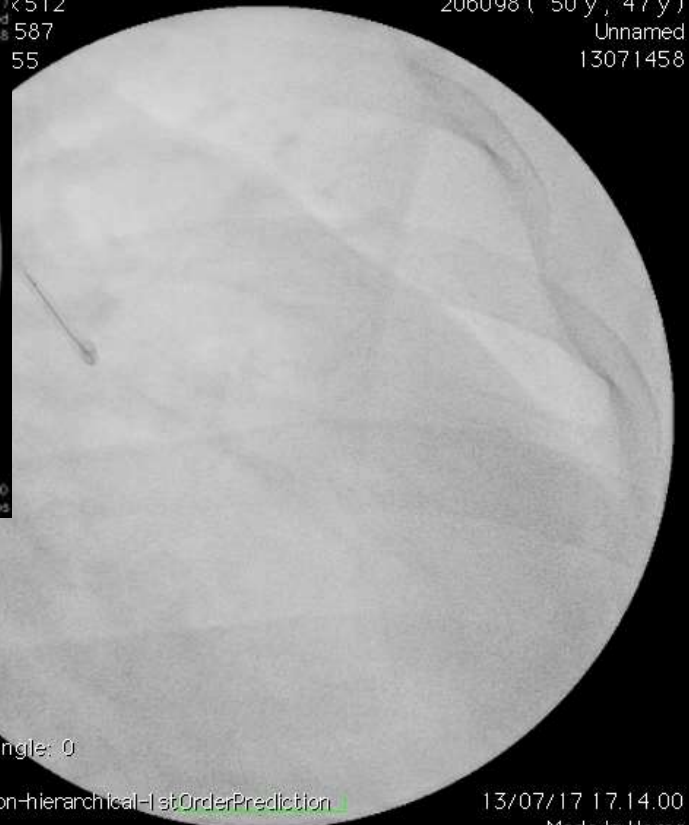
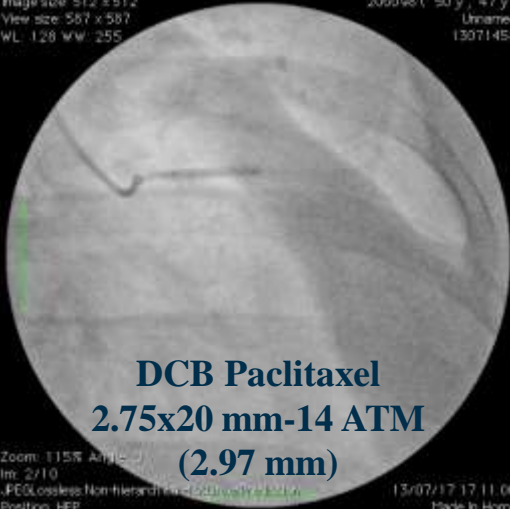
# Final Result

Image size: 512 x 512  
View size: 587 x 587  
WL: 128 WW: 255

206098 ( Image size: 512 x 512  
View size: 587 x 587  
WL: 128 WW: 255

206098 ( 50 y, 47 y ) x 512  
Unnamed  
13071458  
587  
55

206098 ( 50 y, 47 y )  
Unnamed  
13071458



Zoom: 115% Angle: 0  
Im: 1/88  
.JPEGLossless:Non-hierarchical-HistOrderPrediction  
Position: HFP

13/07/17  
Ma

15% Angle: 0  
.JPEGLossless:Non-hierarchical-HistOrderPrediction  
HFP

13/07/17 17.14.00  
Made In Horos

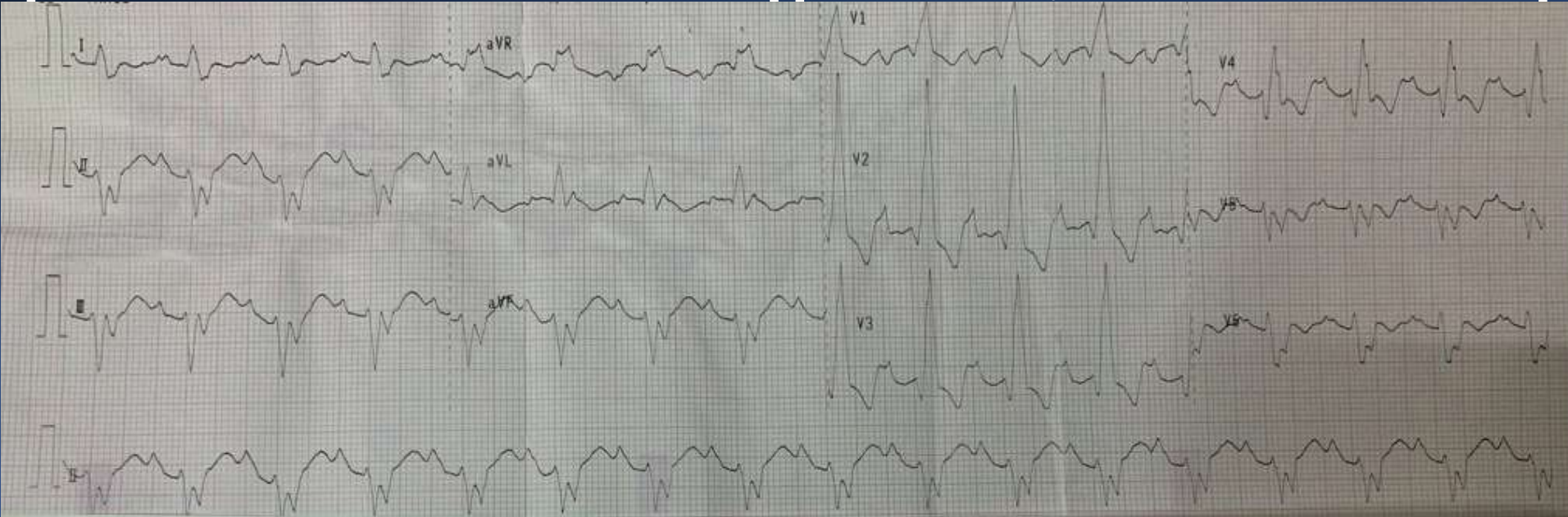
# Follow Up

## Post PCI

- Patient was discharged the next day
- LDL 104 mg/dL; Creatinine 1.3 mg/dL

## Cardiac Clinic

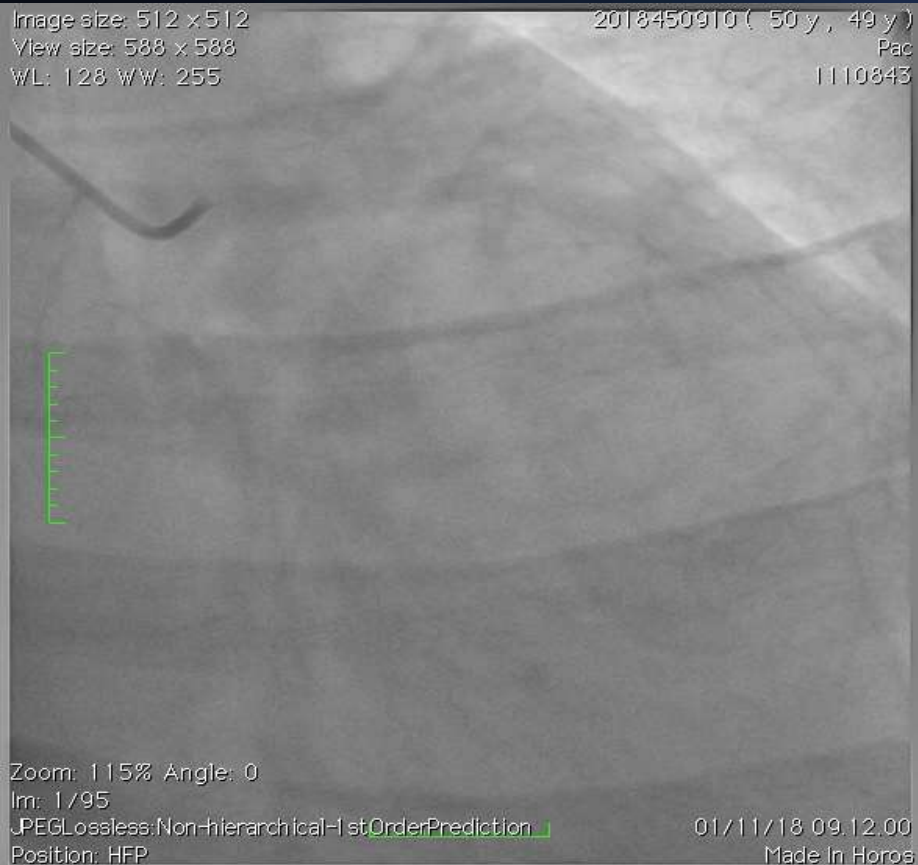
- DAPT was given for 3 months
- Functionally improved to NYHA fc I-II



# Follow Up (28 months)

Image size: 512 x 512  
View size: 588 x 588  
WL: 128 W/W: 255

2018450910 ( 50 y , 49 y )  
Pac  
1110843



01/11/18 09:12:00  
Made In Horos



In-Stent  
Restenosis

Small Vessel  
Disease

**Ischemic  
Cardiomyopathy?**

Bifurcation  
Lesions

De-Novo  
Coronary  
Lesions

## Lesion Preparation

### *predilatation*

conventional semi-compliant balloon, inflation pressure > nominal, balloon-to-vessel ratio 0.8-1.0

### *Options in complex lesions*

non-compliant high-pressure balloons, cutting balloon, scoring balloon, rotablation  
additional intravascular imaging (IVUS, OCT), functional measurements (FFR)

### Acceptable result

No dissection or type A, B  
and TIMI III flow  
and residual stenosis  $\leq 30\%$

or FFR  $\geq 0.8$

### Not acceptable result

Dissection type C-F  
or TIMI < III  
or residual stenosis  $> 30\%$

or FFR  $< 0.8$

### DCB only

balloon-to-vessel ratio 0.8-1.0,  
nominal pressure,  $\geq 30$  seconds

*Newer generation  
Limus-DES*



# Issues

## DCB

- No stent left behind
- Shorter DAPT duration
- Favor slow flow characteristic
- To avoid ISR/ IST
- Immediate drug release
- Positive remodeling

## Stent/ DES

- Metal
- Longer DAPT duration
- Relatively contraindicated
- ISR/ IST rate?
- Slow drug release
- Negative remodeling

# Take-home Message

- PCI in ischemic cardiomyopathy (viable) patient is still a major challenge for PCI
- In this case → DCB has shown advantages and good 2 years outcome
- DCB → an alternative modality for ischemic cardiomyopathy PCI strategy