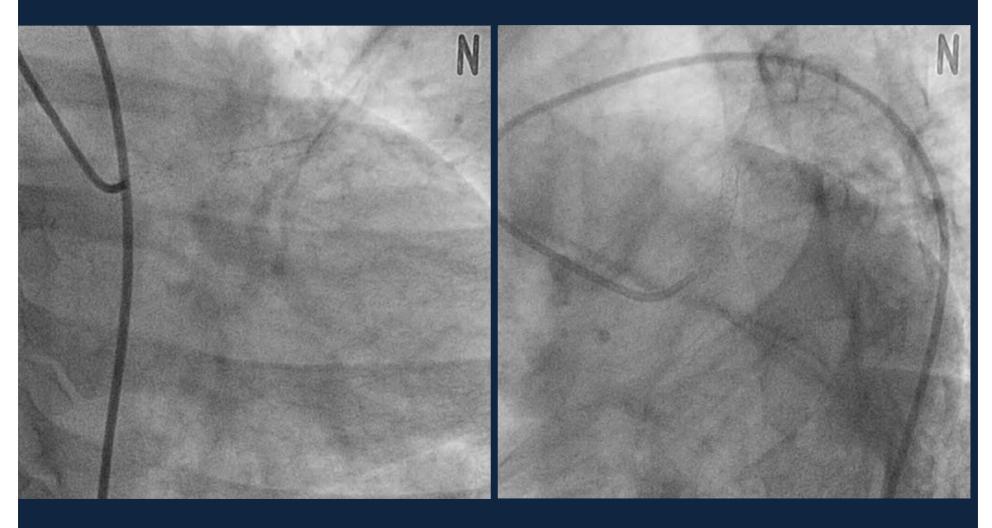
#### Drug-eluting balloon for instent restenosis lesion

Byoung-Joo Choi, MD Ajou University Hospital

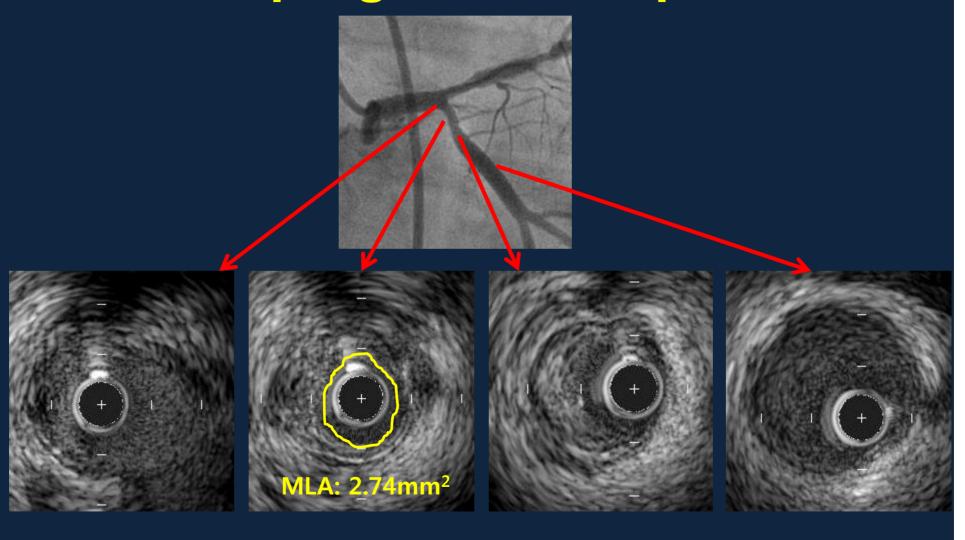
#### **Brief patient history**

- F/46
- Chief complain
  - Typical effort chest pain
- Cardiac risk factors
  - HTN(+), DM(-), smoking(-), Hyperlipidemia (+)
- PCI History
  - LM os: Cypher 3.5/13mm
  - Prox LAD: Cypher 3.5/23mm
- LV ejection fraction: 72%

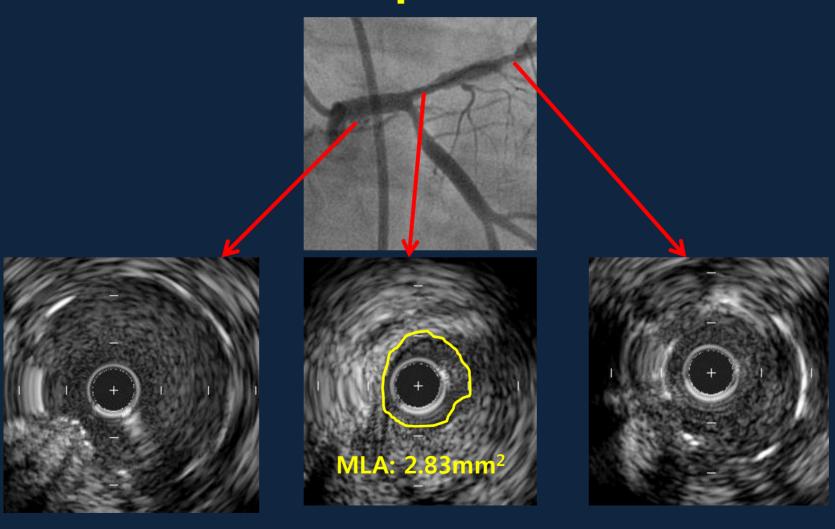
#### Initial angiogram



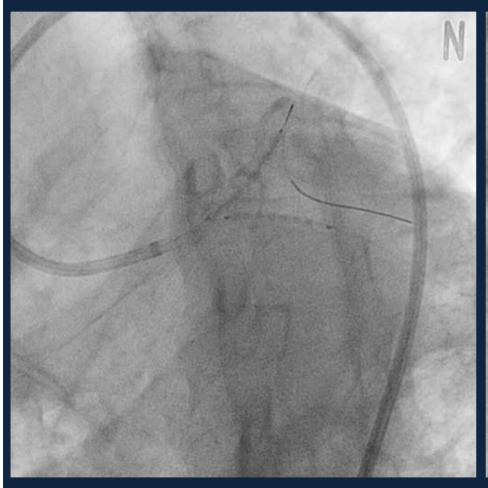
#### IVUS of LCX Disease progression at prox-LCX



# IVUS of LAD Disease progression at prox-LAD Focal ISR at prox-LAD stent



### Treating LAD and LCX lesions with crushing technique



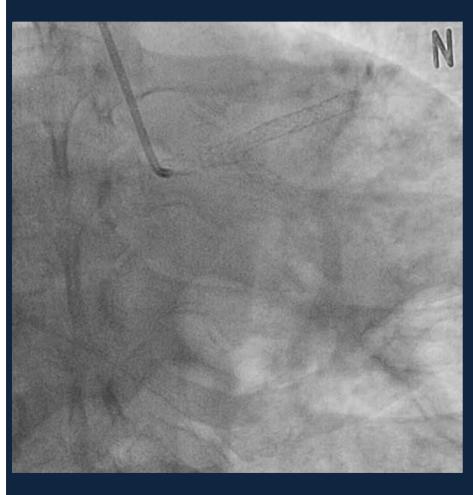


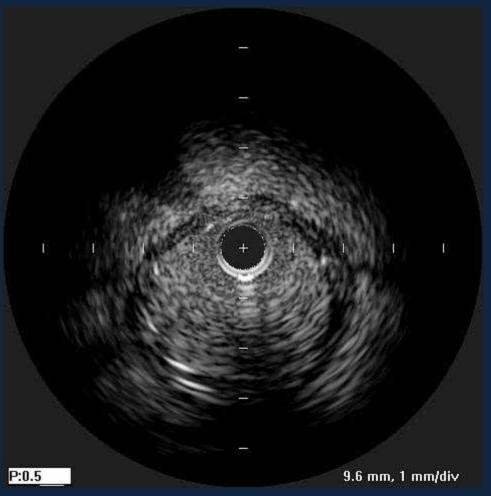
Cypher 3.5/33mm Cypher 3.5/18mm

After kissing balloon

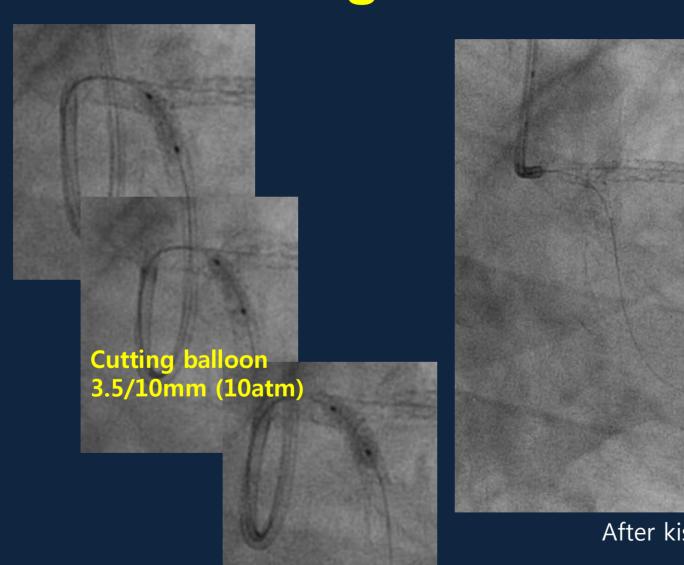
## The patient had been happy for 2 years. but....

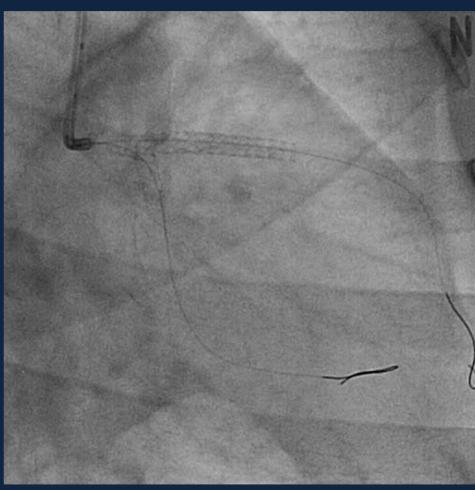
#### 2yr-FU angiogram after PCI with crushing technique





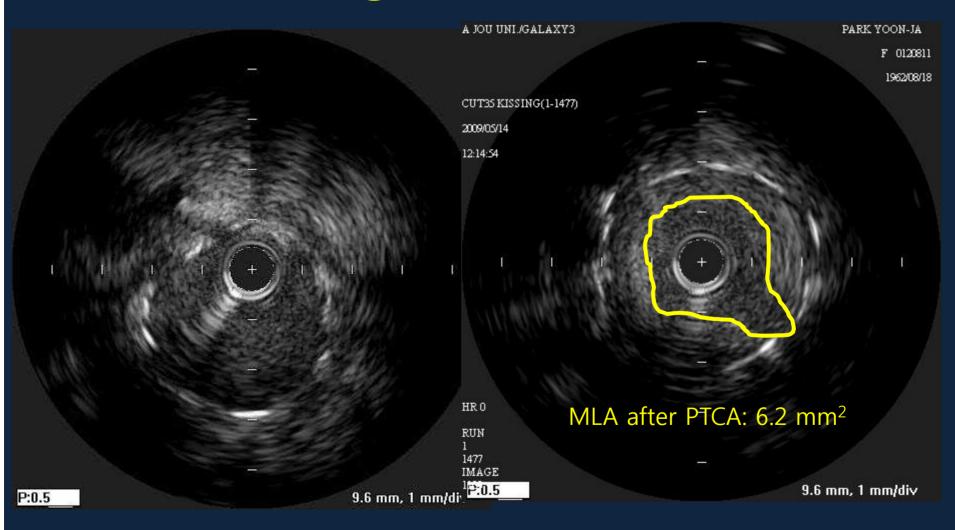
#### **Cutting balloon PTCA**





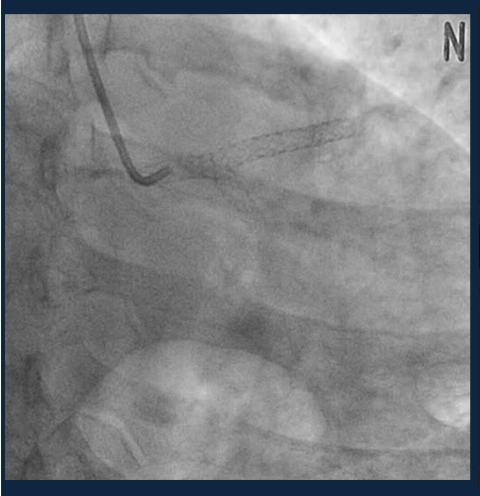
After kissing balloon

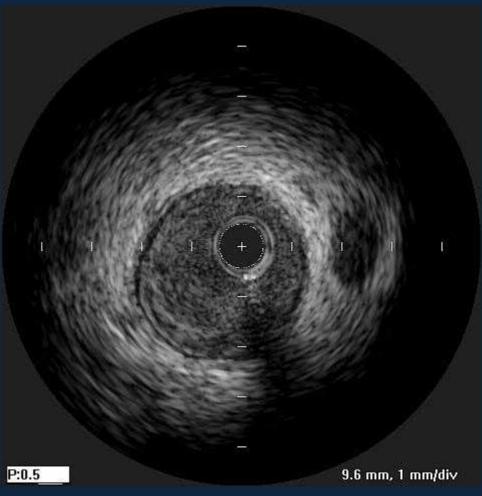
### IVUS of LCX after cutting balloon PTCA



#### The patient had been happy for only 6 months at this time...

### 6 month after cutting balloon angioplasty of LCX-os

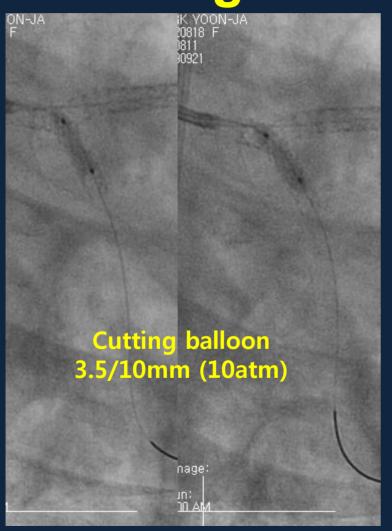


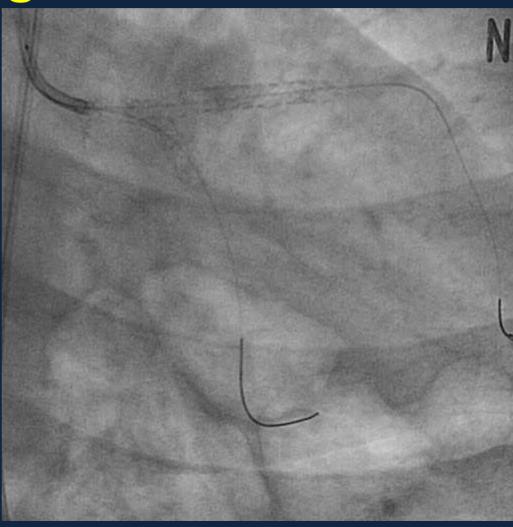


#### Therapeutic options for this troublesome lesion

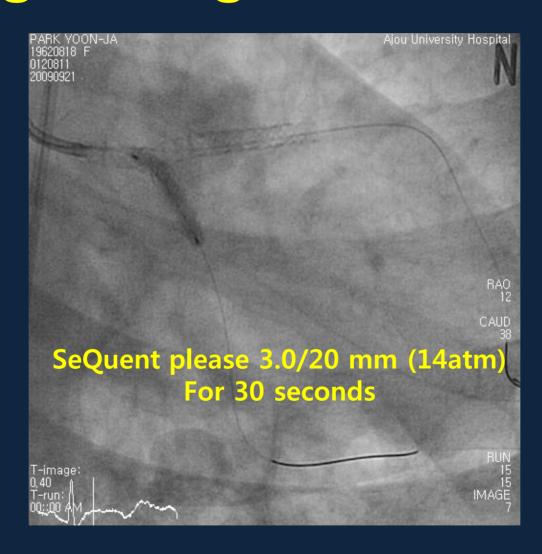
- Re-ISR
- Diffuse proliferative type
- Complex stenting high metal burden
- Cutting balloon again?
- Another stent implantation?
- Brachythreapy?
- Drug-eluting balloon!

### Lesion modification before drug-eluting balloon PTCA

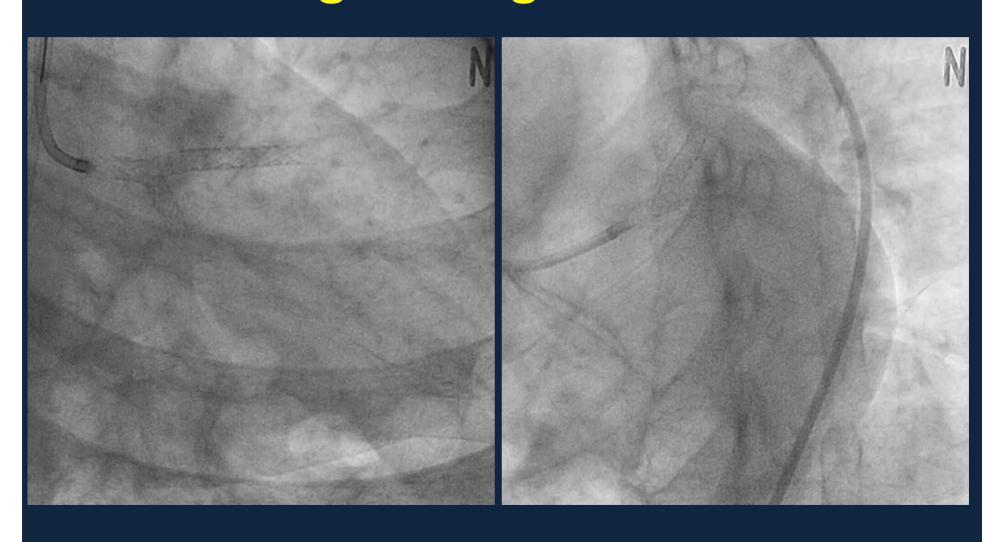




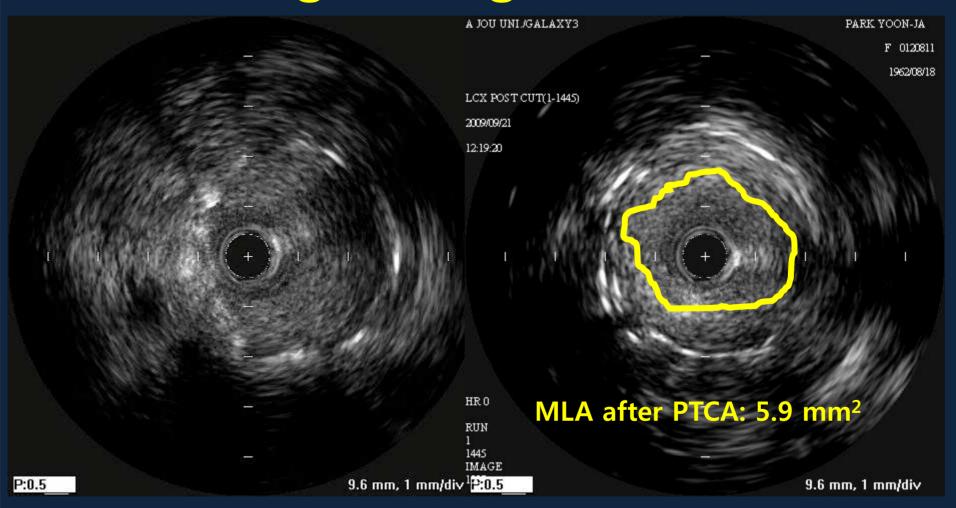
#### **Drug-eluting balloon PTCA**



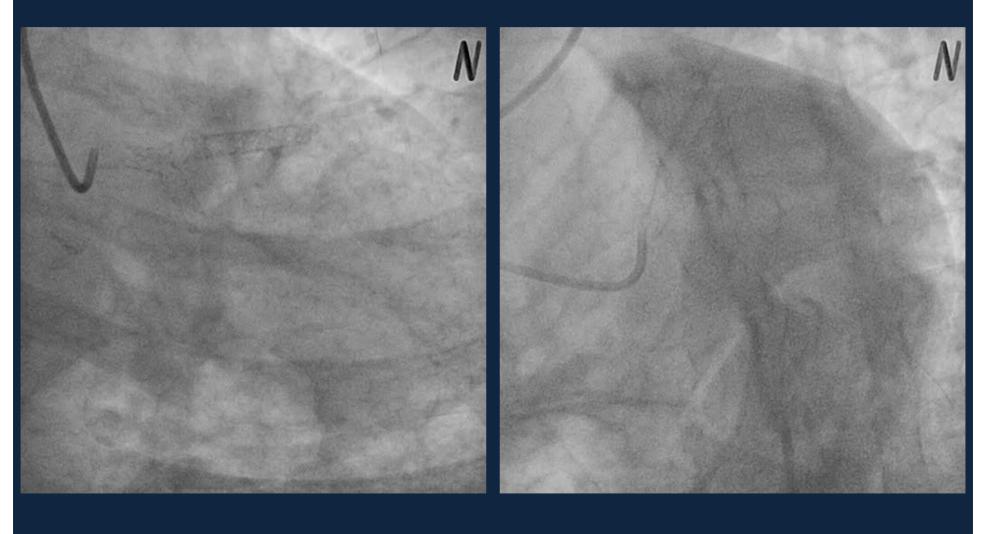
### Final result after drug-eluting balloon PTCA



#### IVUS of LCX after Drug-eluting Balloon PTCA



### 6 month FU after Drug-eluting balloon angioplasty





### The patient has been happy so far!

#### Interesting points

 DEB was safe and useful in treating complex ISR lesion.

 DEB was superior to cutting balloon in DES failure lesion.

#### Thank you