

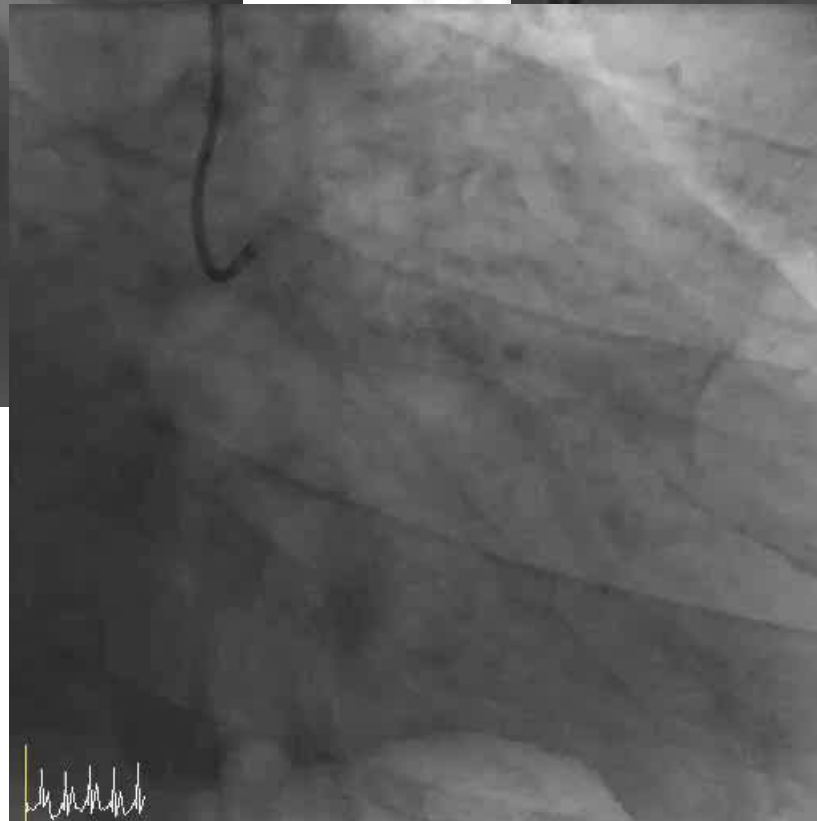
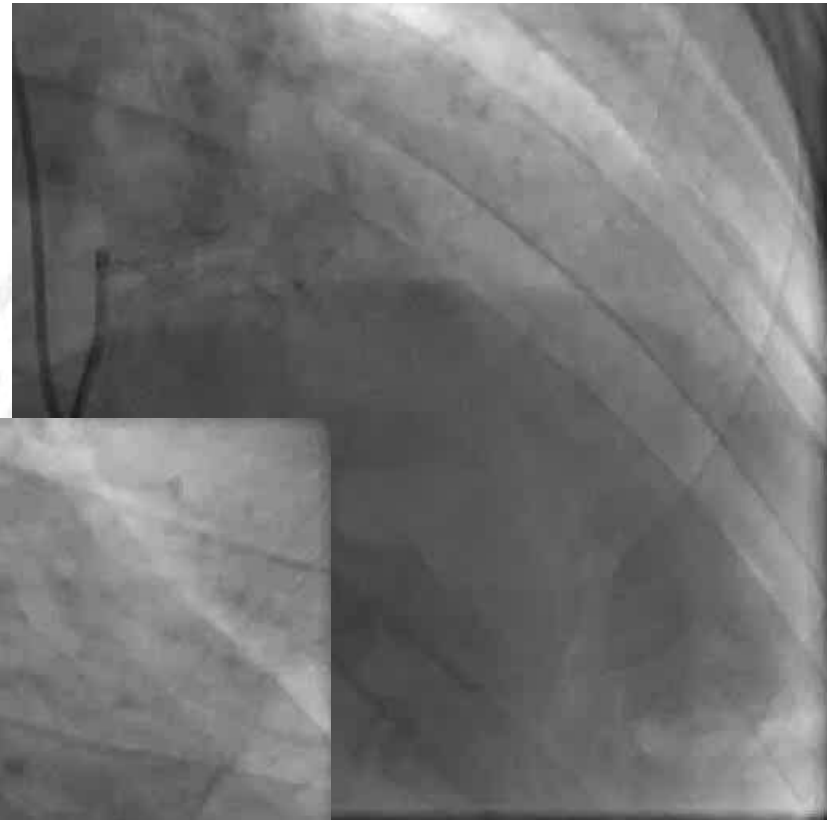
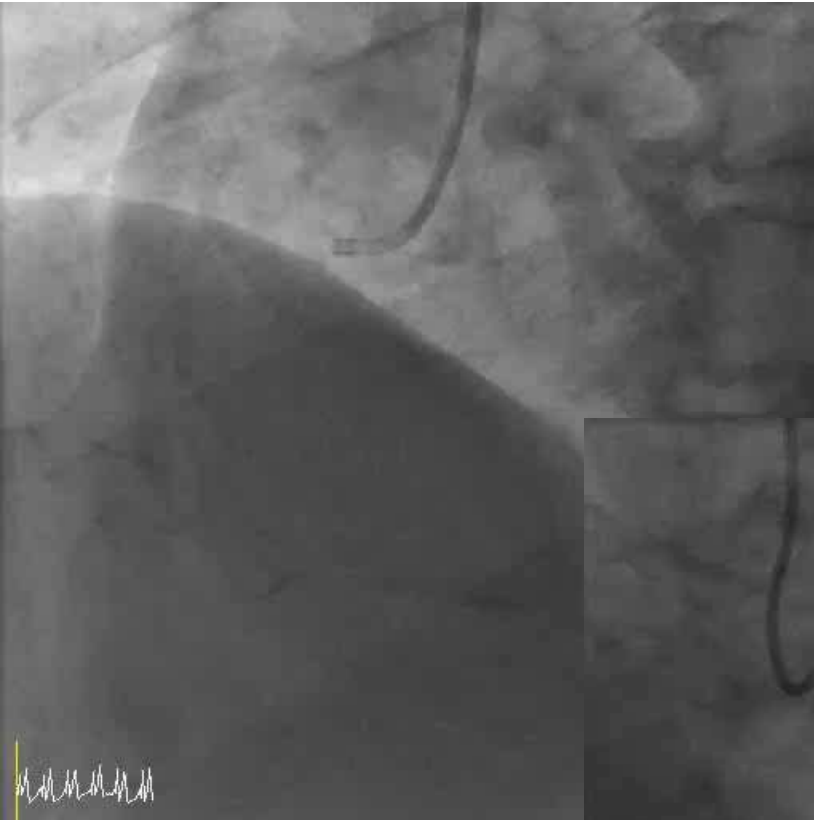


*Clinical Application of Integrated Use
of FFR and IVUS:
Left Main PCI*

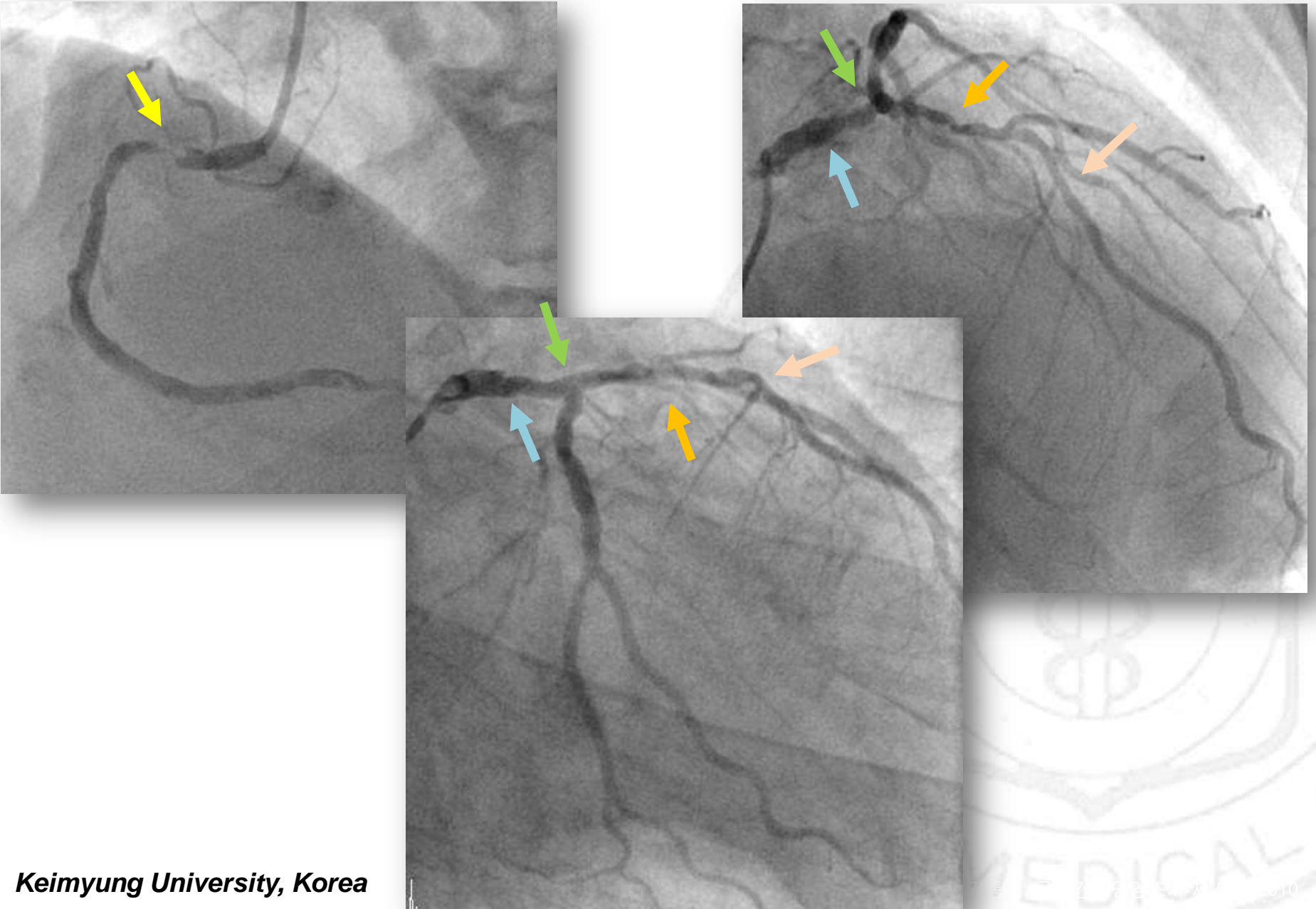


Keimyung University Dongsan Medical Center
NAM, Chang-Wook MD, PhD

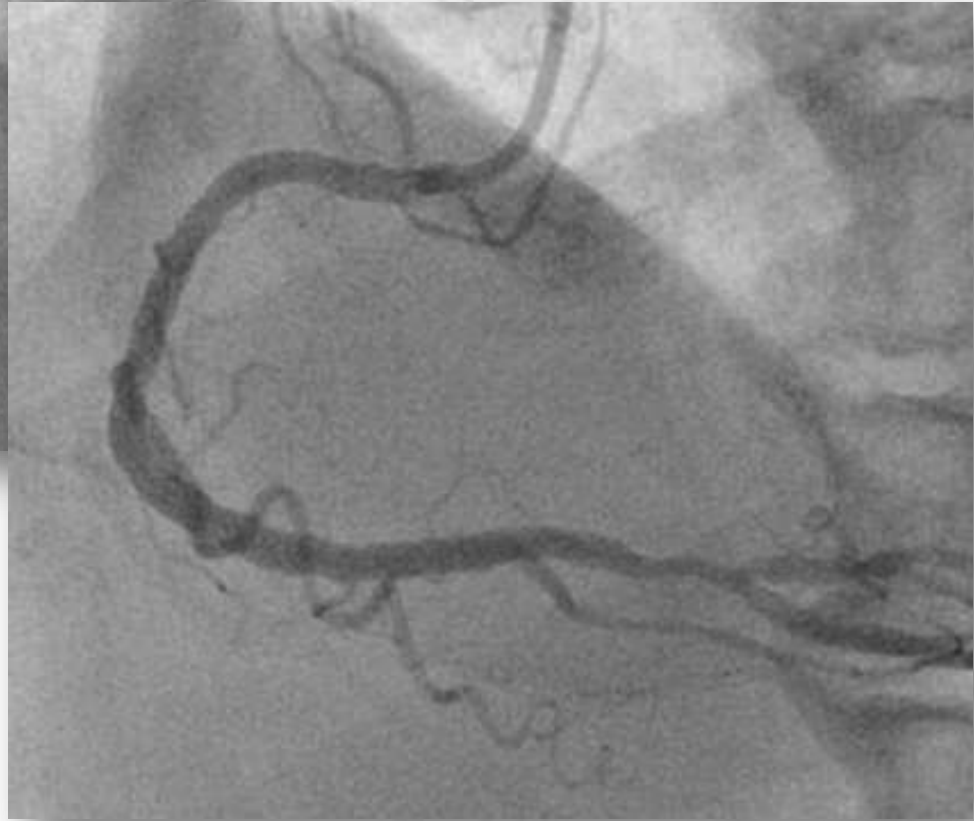
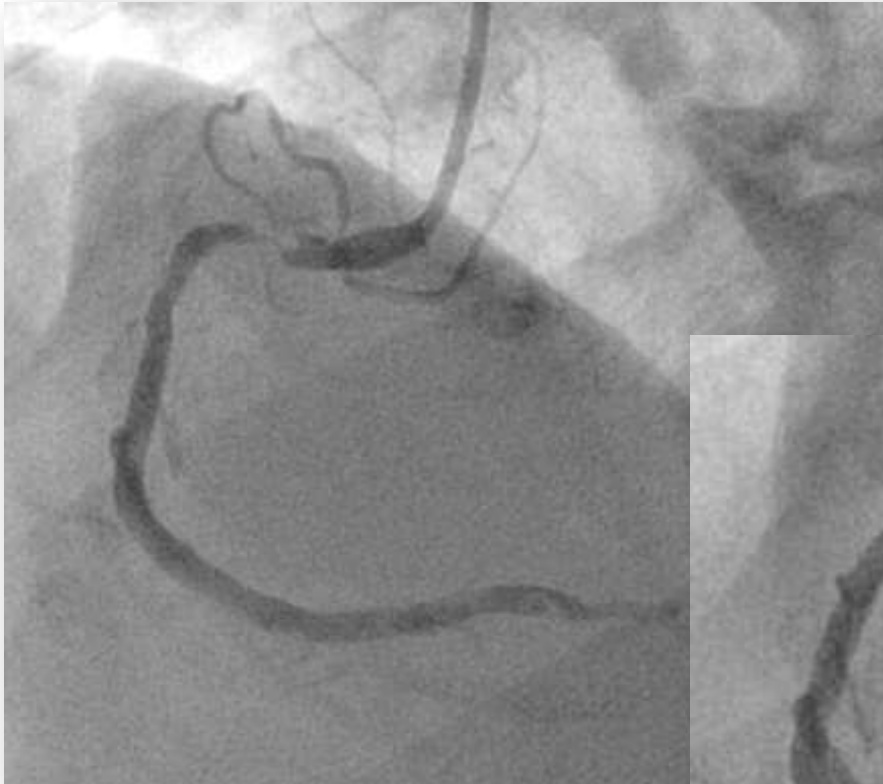
74 YO/male, NSTEMI



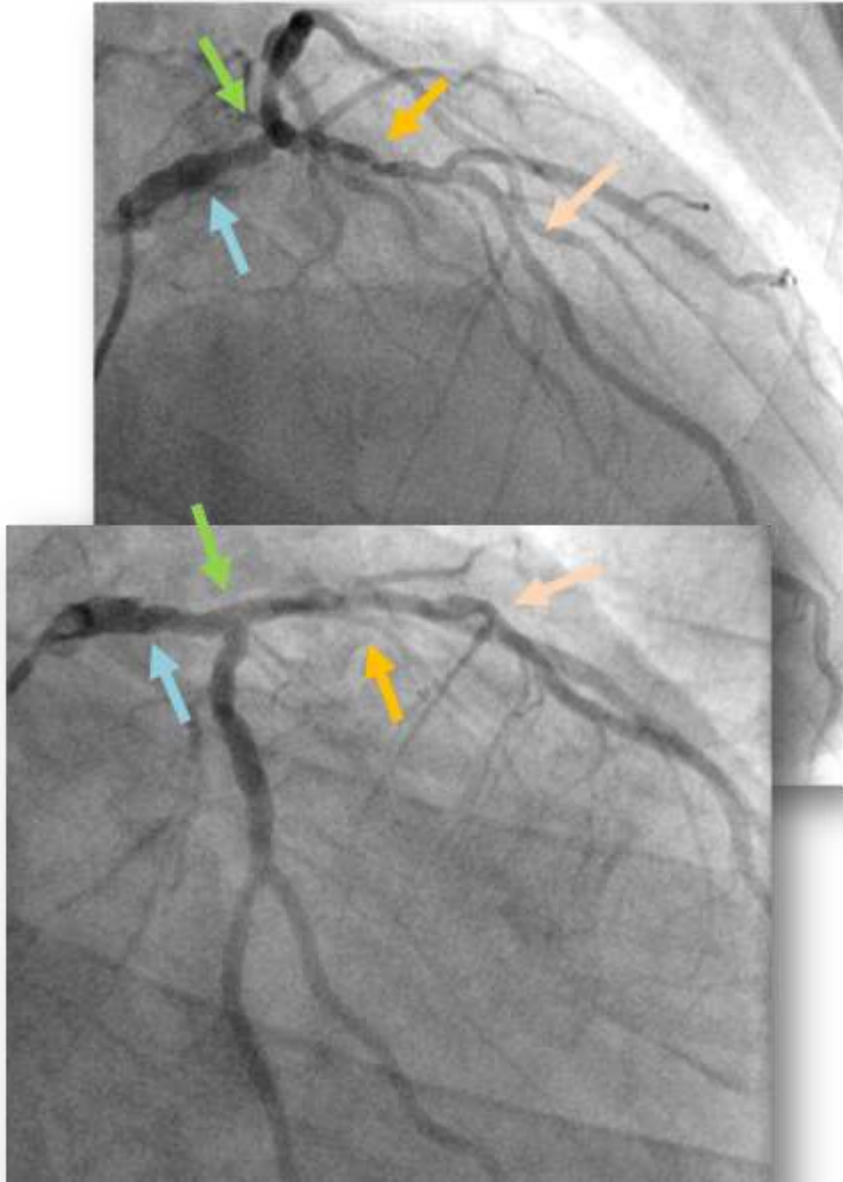
Coronary Angiography



PCI for RCA



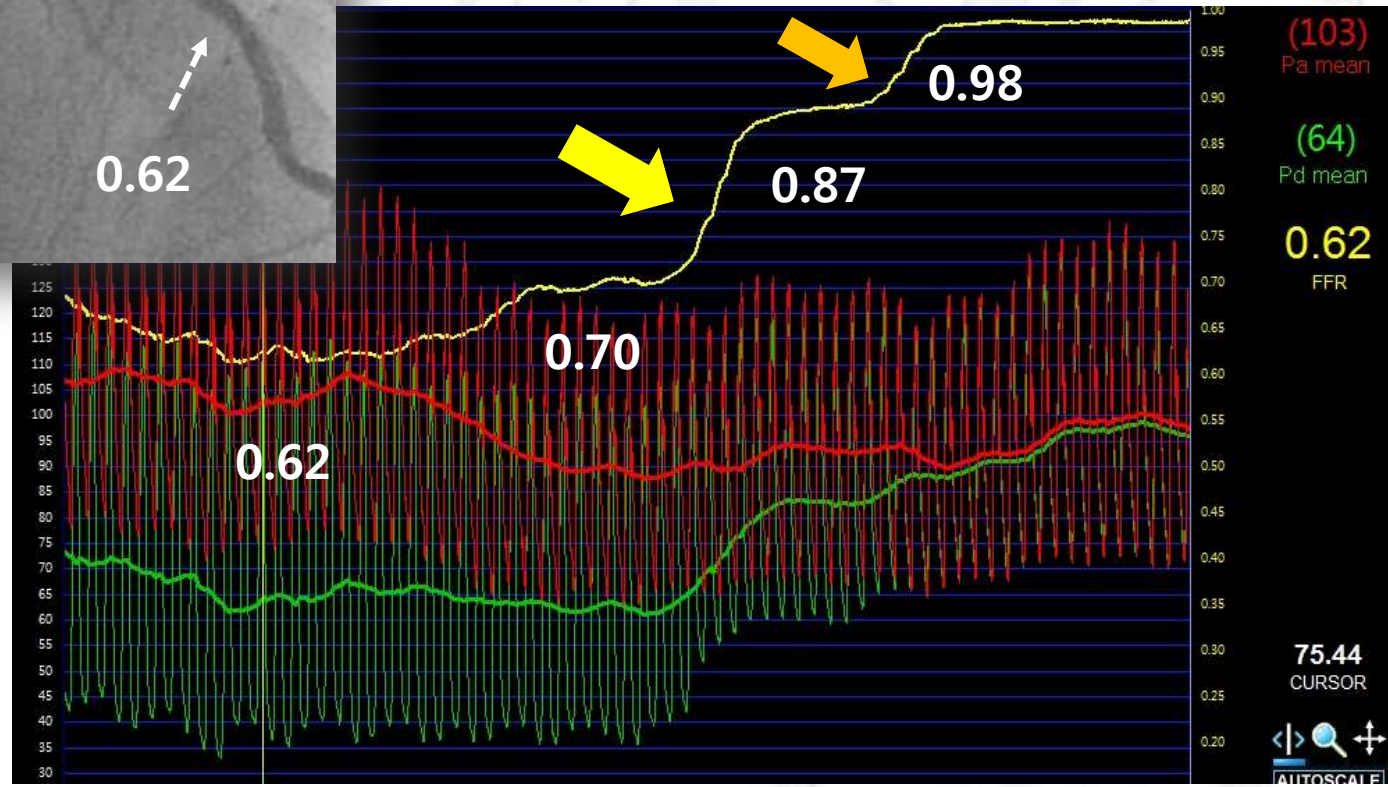
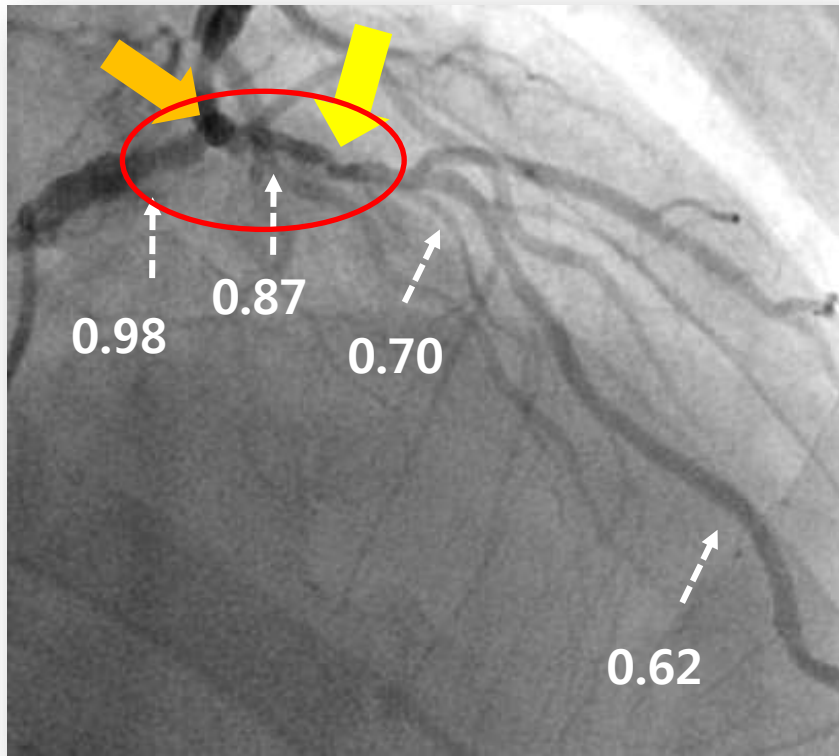
How to deal with LM to LAD



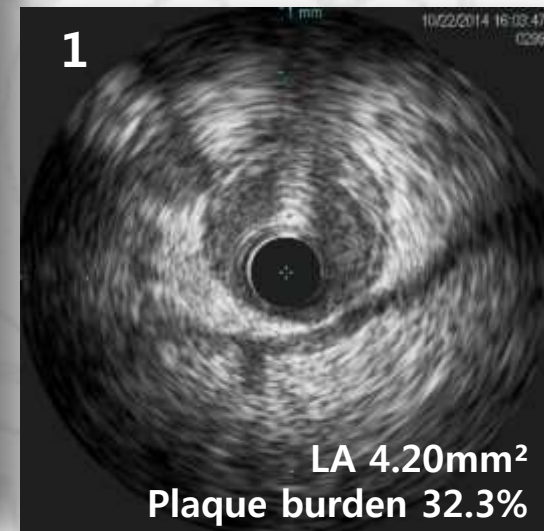
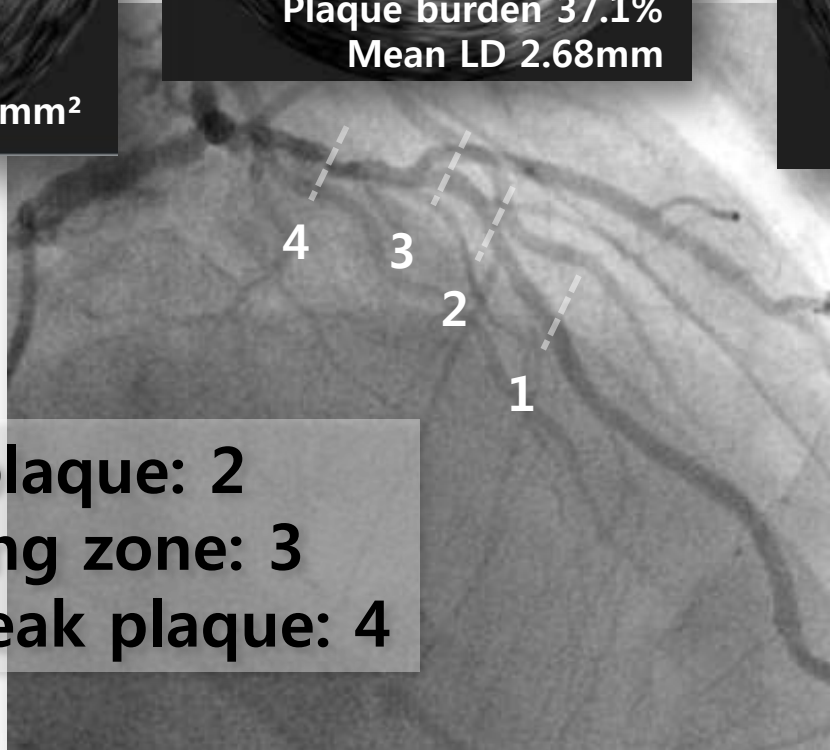
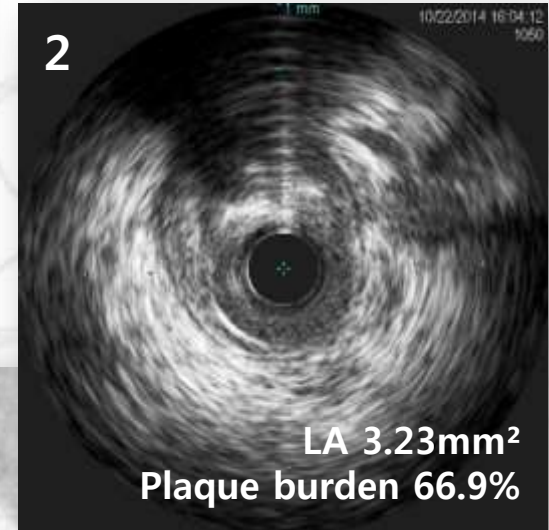
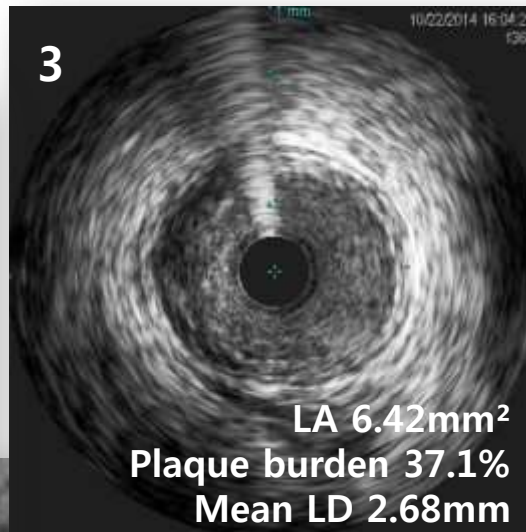
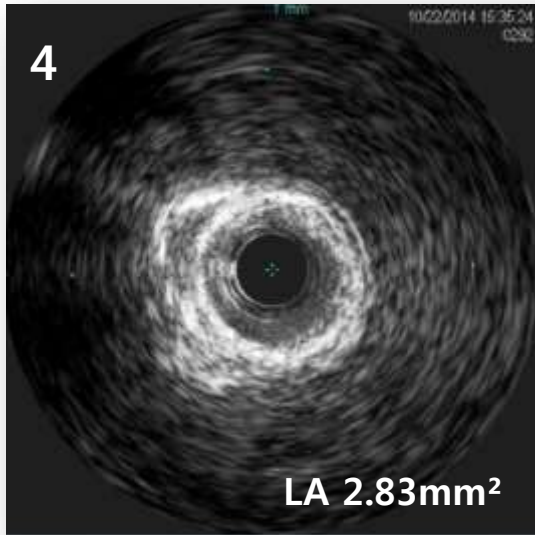
- Whether treat or not?
 - FFR
- Where to treat?
 - FFR & IVUS
- How to treat?
 - IVUS

Whether treat or not? / Where to treat?

FFR-guided decision



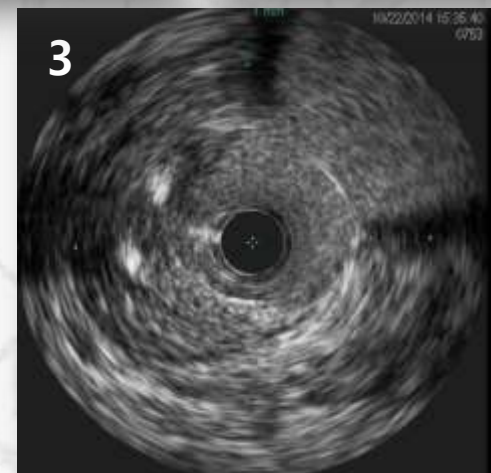
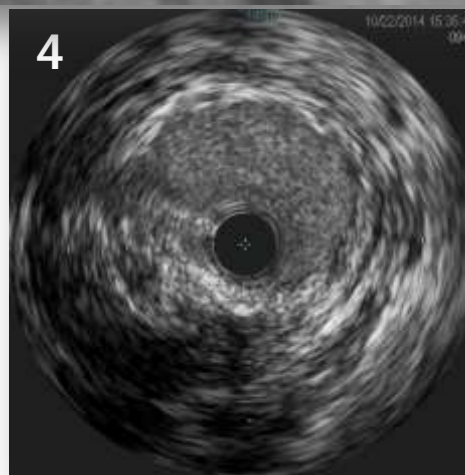
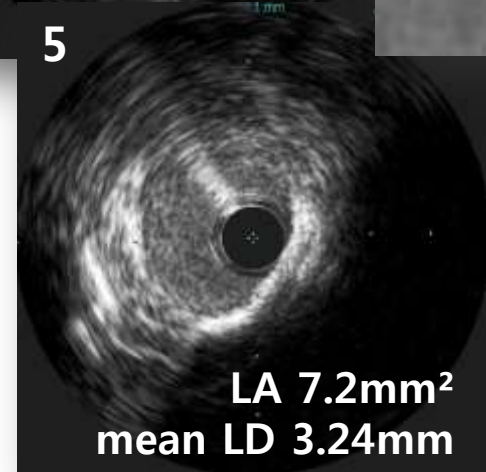
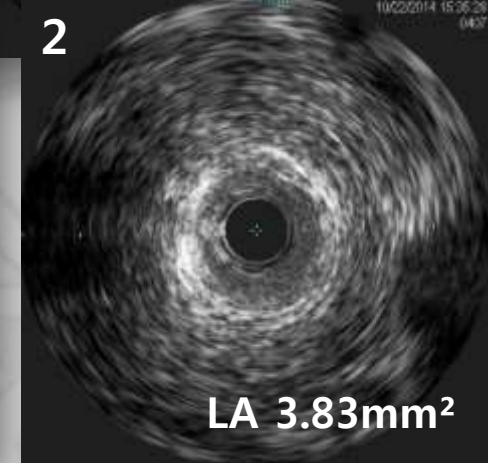
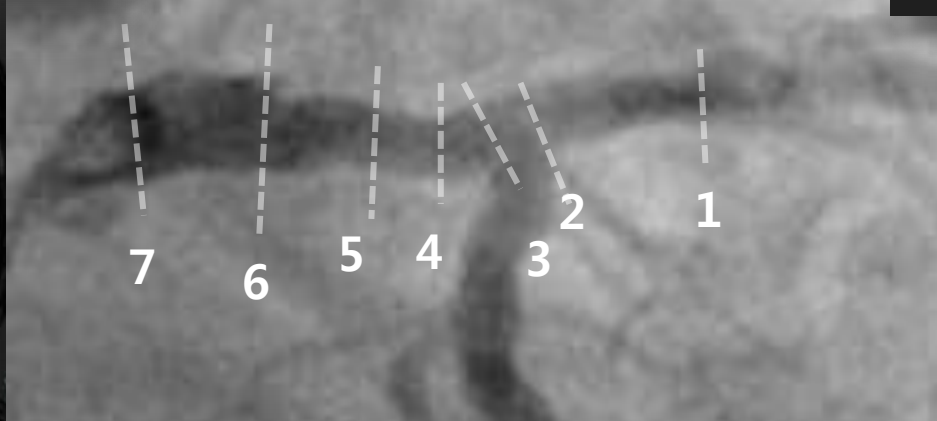
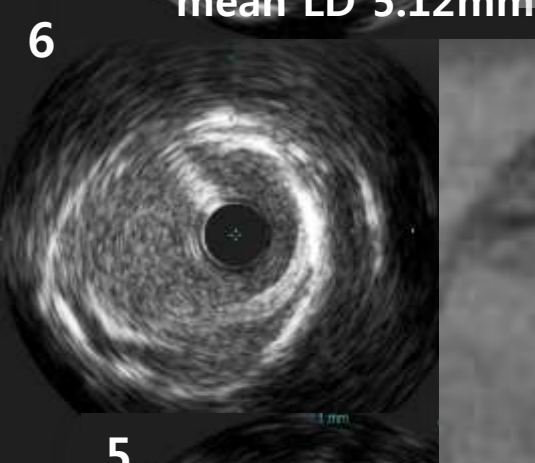
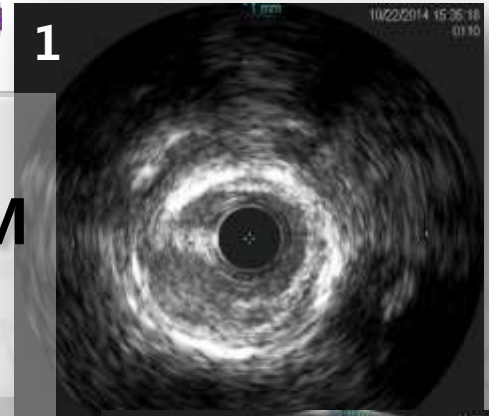
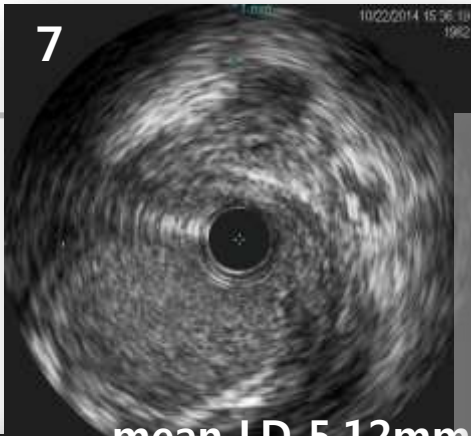
Where to treat? / How to treat?



- Moderate plaque: 2
- Good landing zone: 3
- Need to break plaque: 4

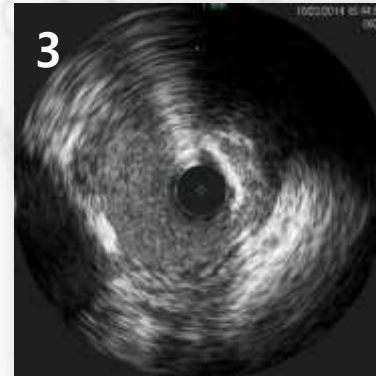
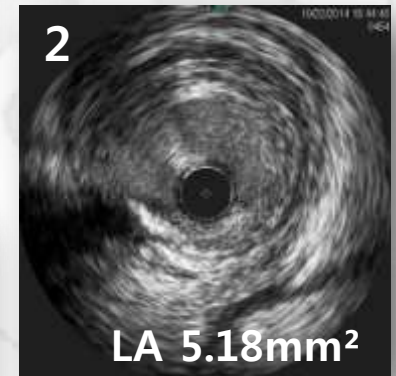
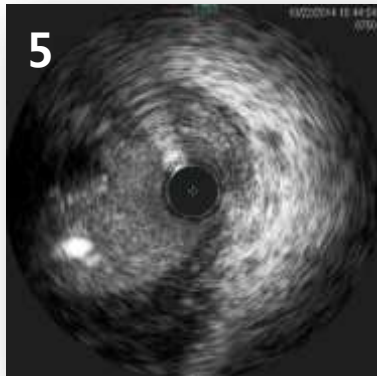
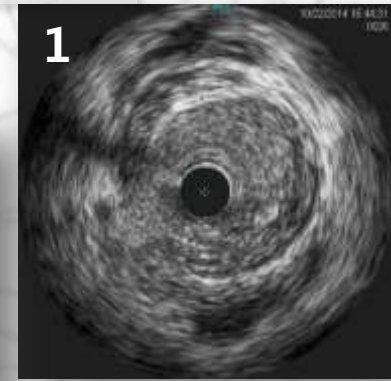
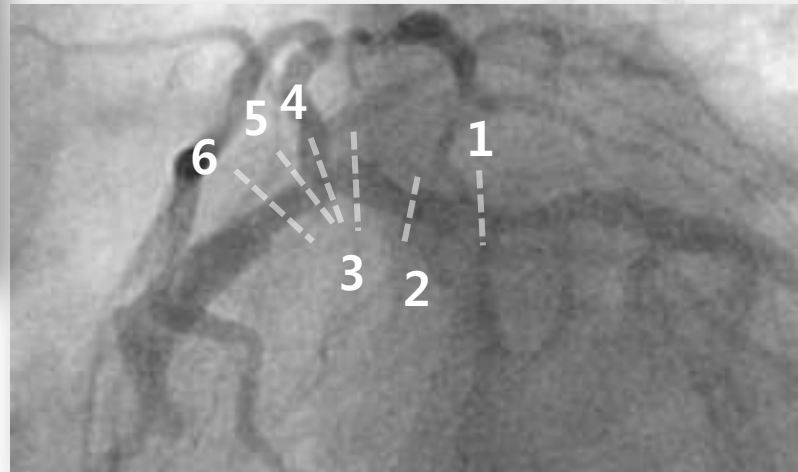
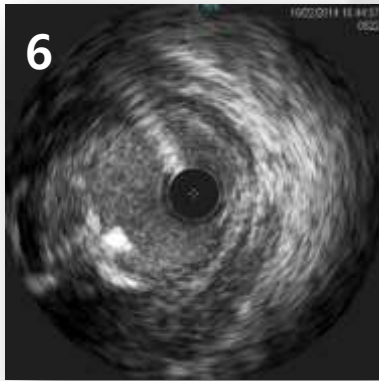
IVUS for LM to LAD

- Large plaque in osLAD
- Moderate plaque in dLM
- Diameter discrepancy
- Plaque rupture in LM



IVUS for LM to LCX

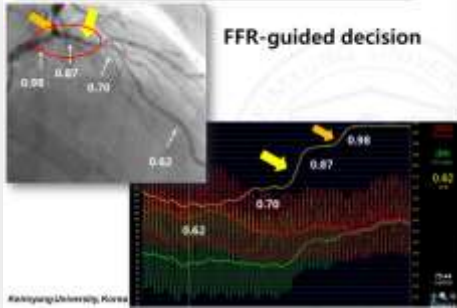
- Mild calcified plaque in LCX
- Large LM plaque above osLCX



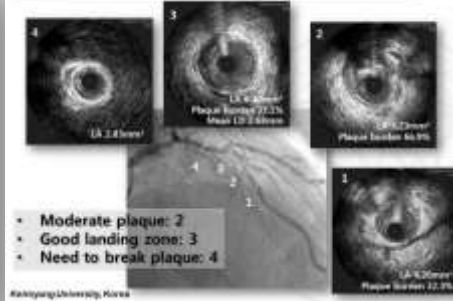
PCI for LM to LCX

Whether treat or not? / Where to treat?

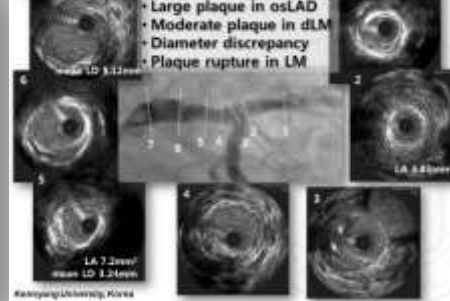
FFR-guided decision



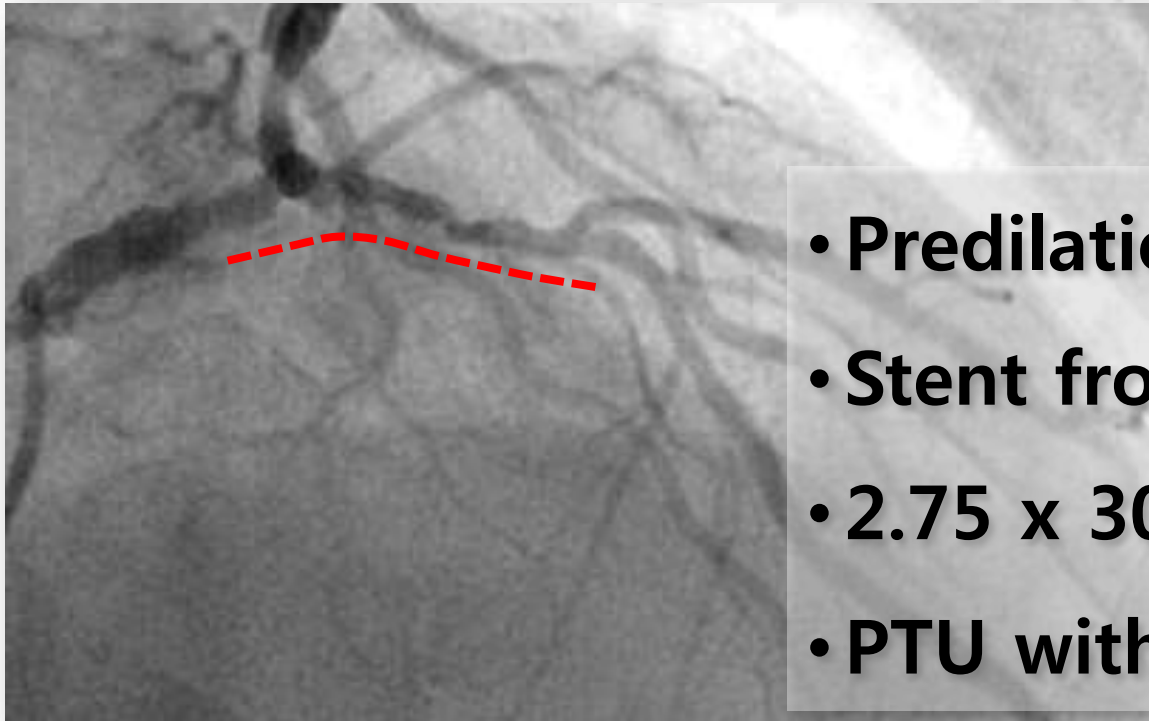
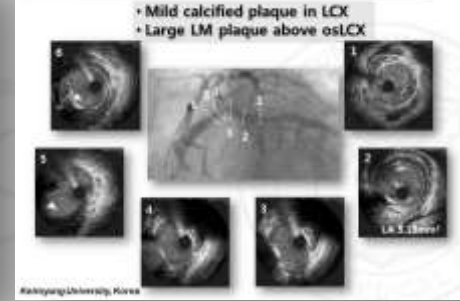
Where to treat? / How to treat?



IVUS for LM to LAD

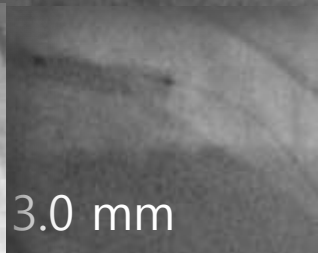
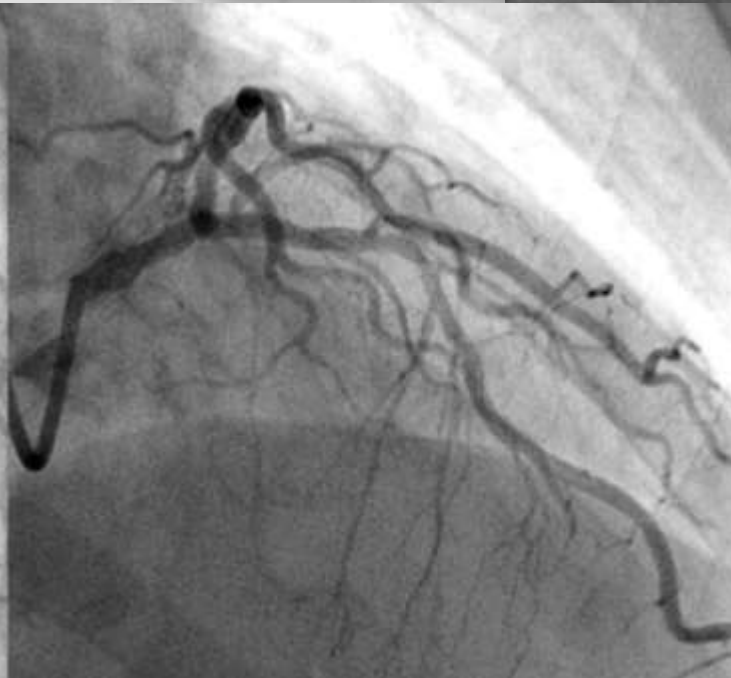
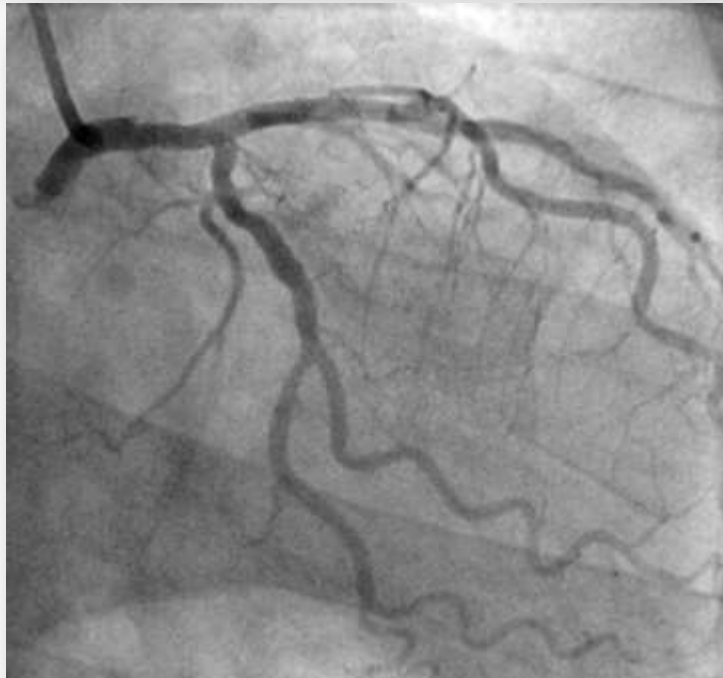
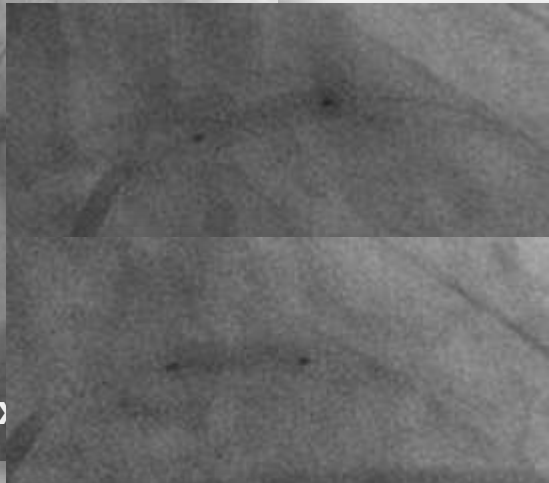
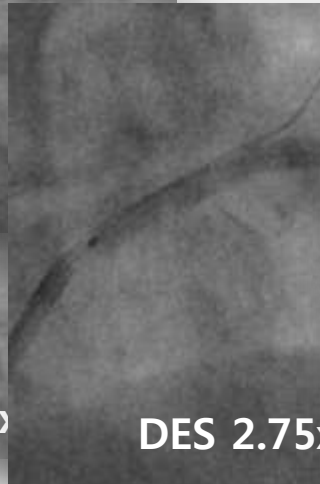
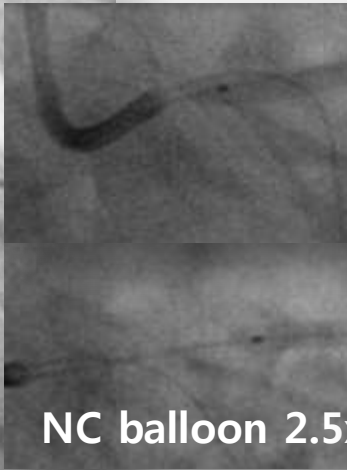
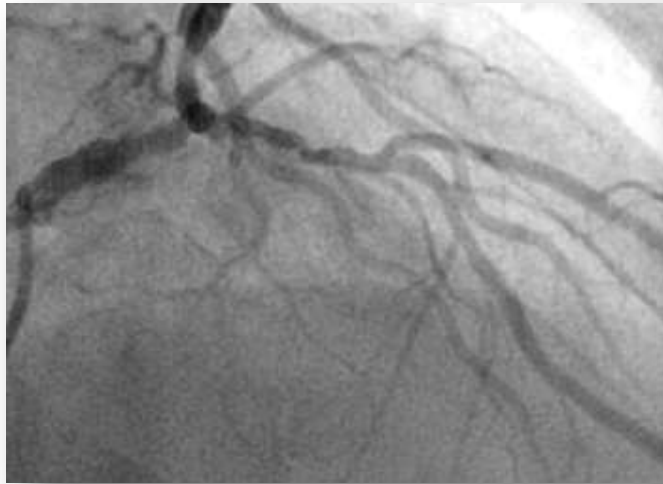


IVUS for LM to LCX

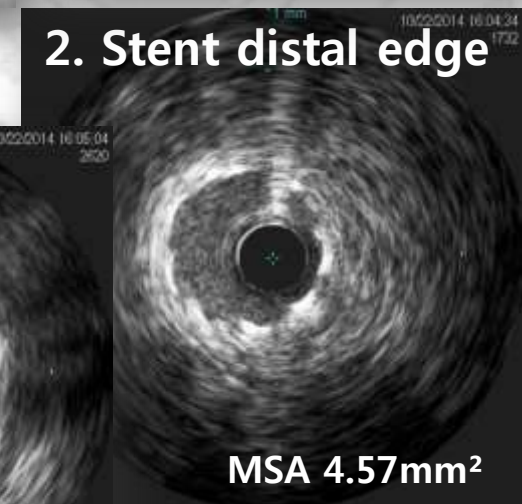
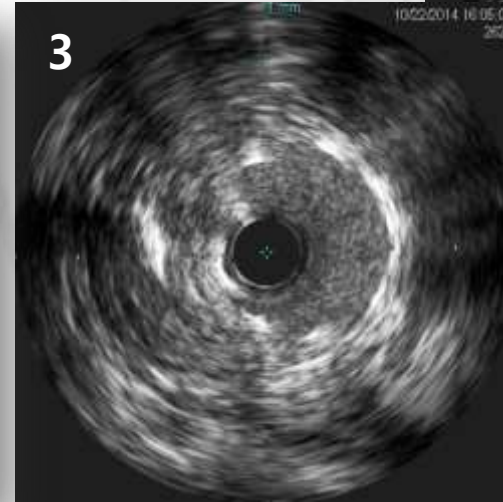
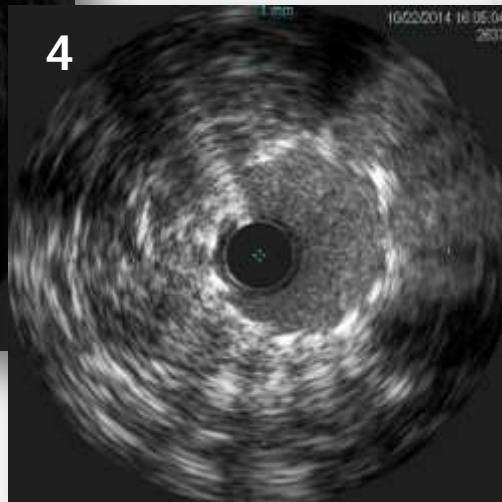
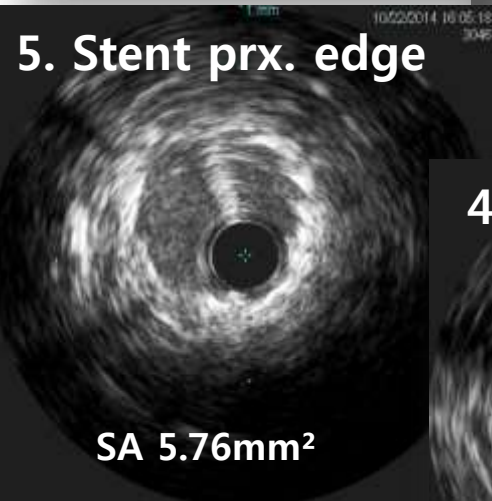
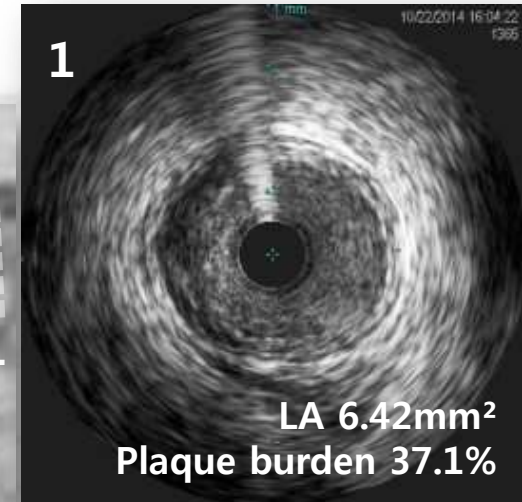
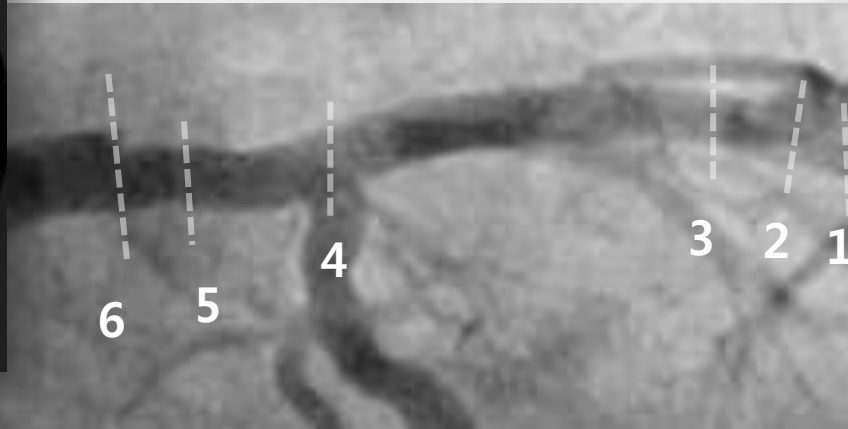
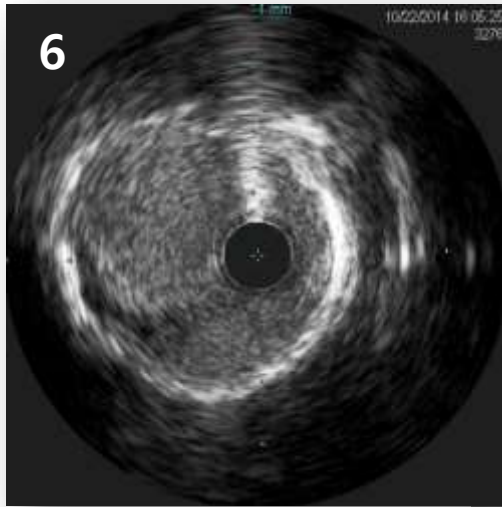


- Predilation with NC balloon
- Stent from dLM to pLAD
- 2.75 x 30 mm DES
- PTU with larger balloon

PCI for LM to LAD

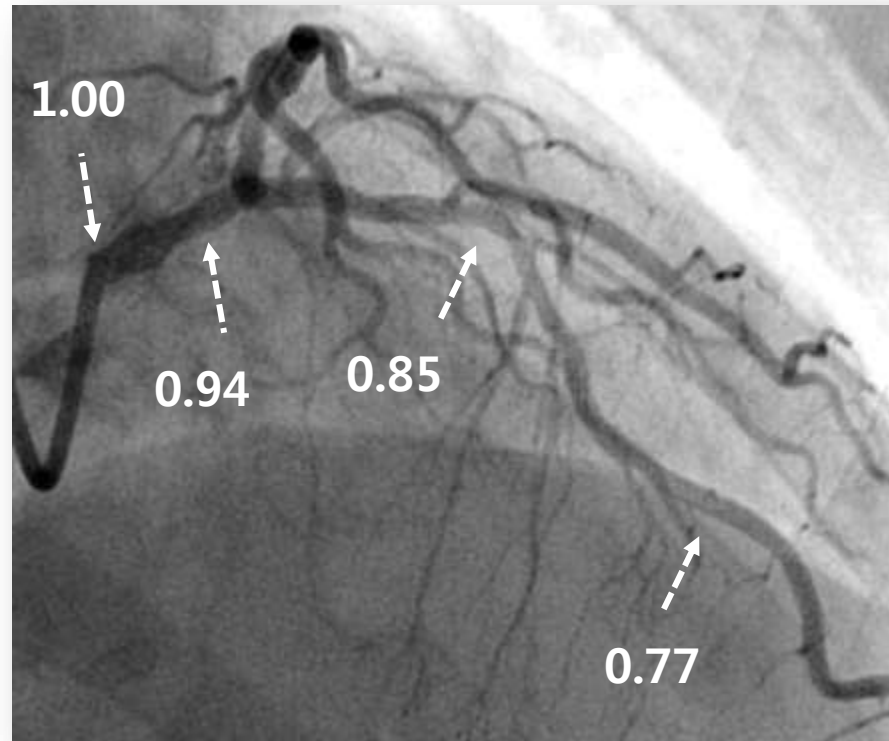


IVUS after LM to LAD PCI



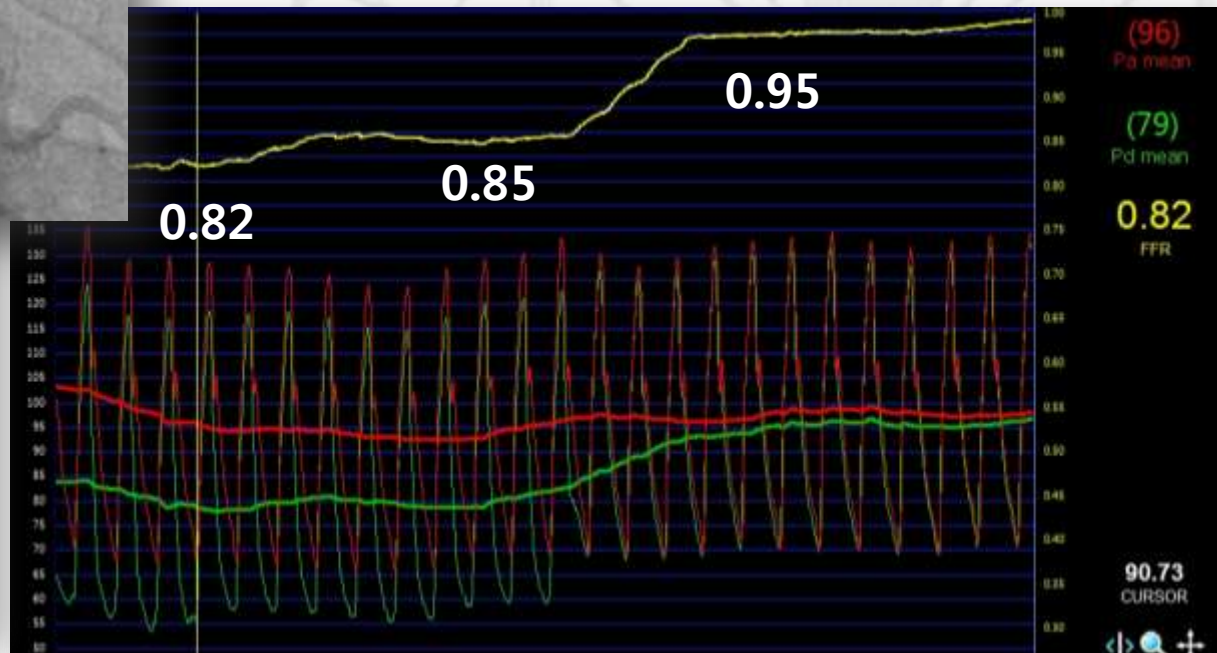
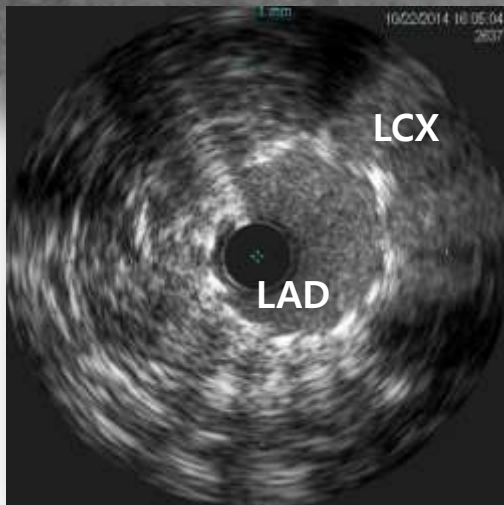
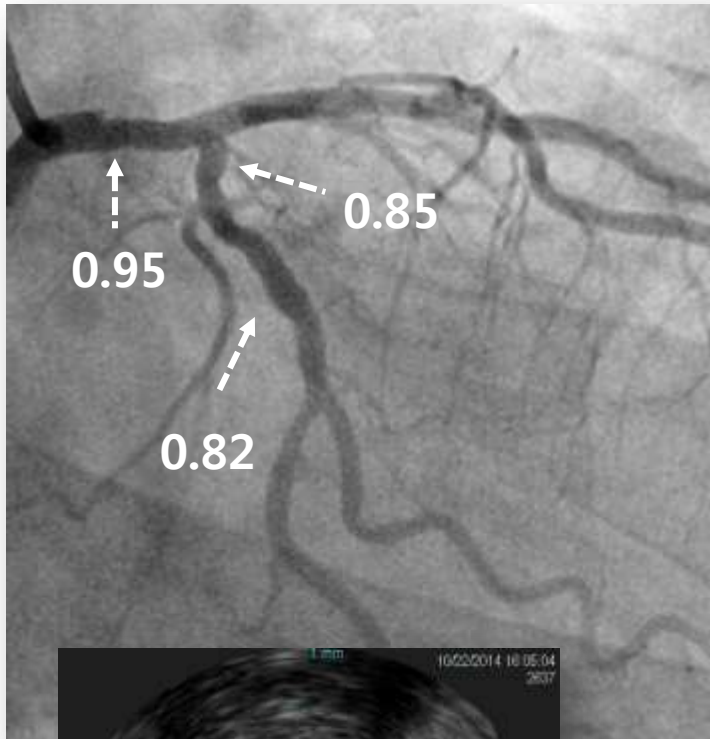
FFR after LM to LAD PCI

- No focal step-up



FFR for LM to LCX after PCI

- Carina & plaque shifting



Integrated Use of FFR and IVUS



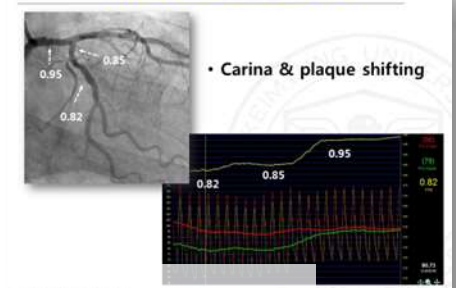
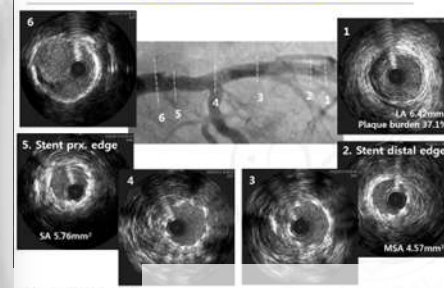
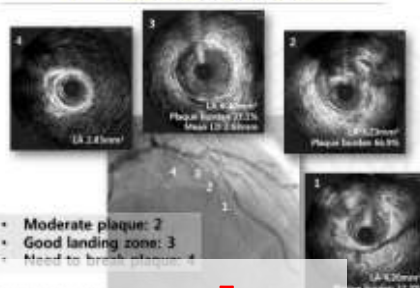
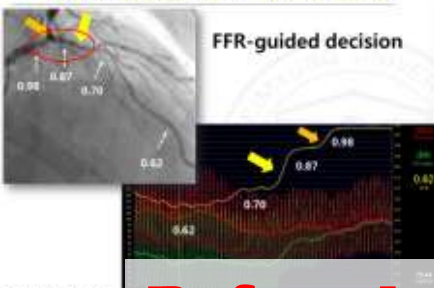
Whether treat or not? / Where to treat?

Where to treat? / How to treat?

IVUS after LM to LAD PCI

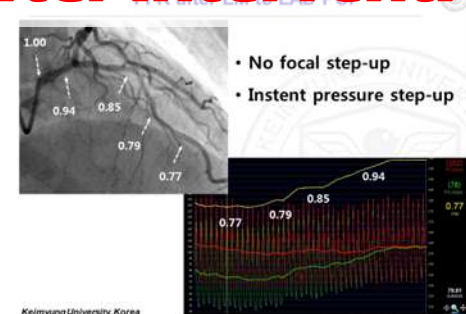
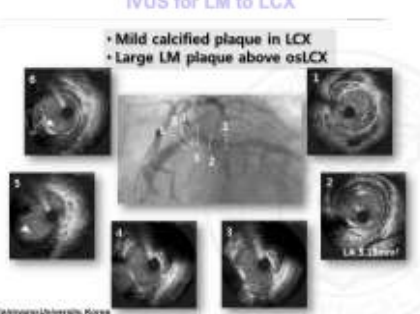
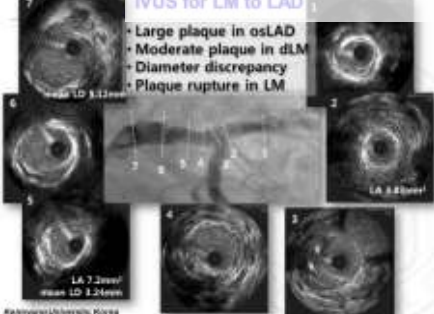
FFR for LM to LCX after PCI

FFR-guided decision



Before Intervention

After Intervention



Case summary

01

FFR-guided decision making for whether treat or not, and where to treat

02

IVUS-guided decision making for how to treat



Target lesion selection, Device selection, Stent selection, Procedure selection, etc

03

IVUS and FFR guided post procedural evaluation



Result assessment, Additional procedure decision, Prognosis expectation, etc

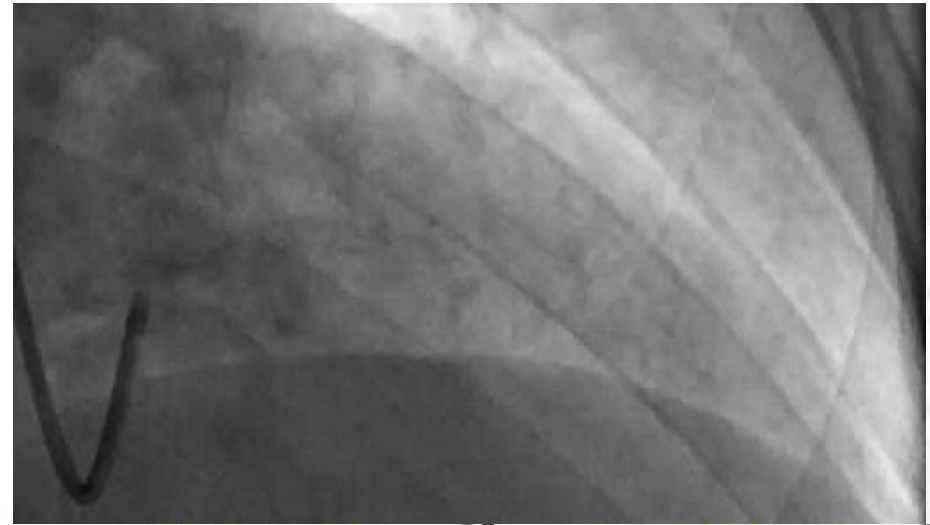
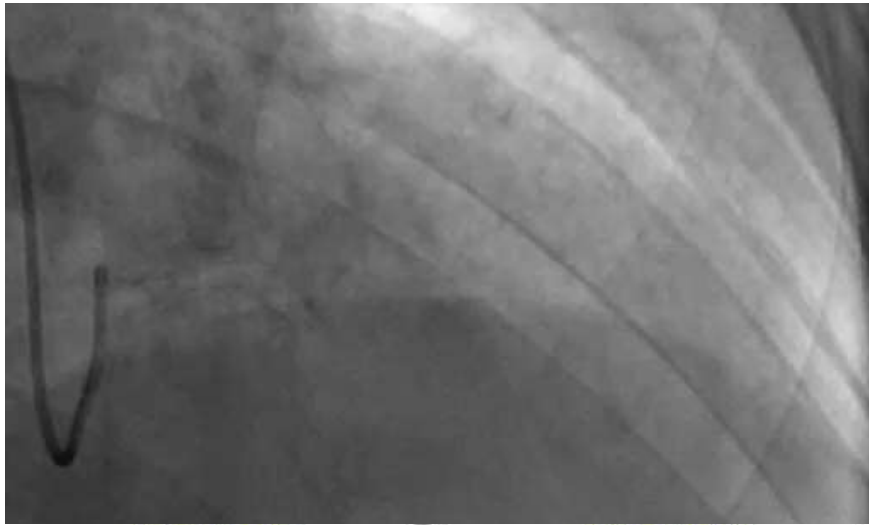


Thank You



Clinical Application of Integrated Use of FFR and IVUS: LM PCI

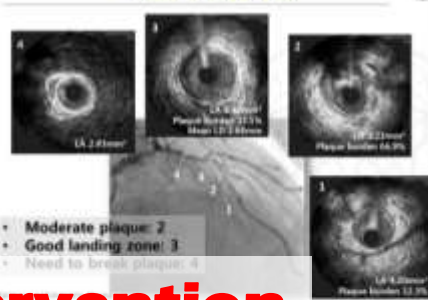
Integrated Use of FFR and IVUS



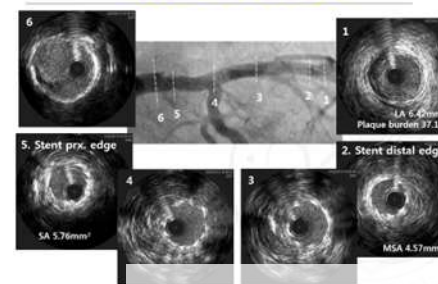
FFR for LM to LAD



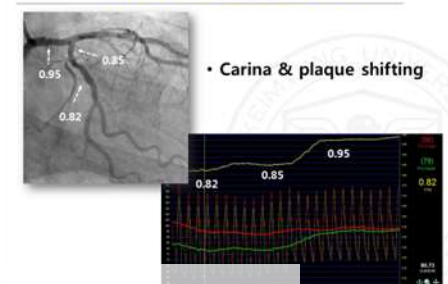
IVUS for LM to LAD



IVUS after LM to LAD PCI



FFR for LM to LCX after PCI



Before Intervention

After Intervention

