

Extra-stent wire path through in ISR CTO Intervention

Daegu Catholic University Medical Center

➤ **Presenter : Jin Bae Lee**

➤ **Operator : Kee Sik Kim, Jin Bae Lee**

Patient profile

- 80-year-old female
- Effort induced chest pain and DOE (NYHA class II)
- CV risk factor – None
- SLE, Raynaud's Syndrome
- 3 DES were deployed in the LM to LAD (LM to LAD: 3.5 × 33 Cypher, proximal LAD: 3.5 × 16, mid LAD: 2.75 × 24 Taxus) and 2 DES were deployed in the RCA (proximal RCA: 3.5 × 28, mid RCA 3.5 × 28) at Feb. 2006.

- Electrocardiography
 - T wave inversion in the V2-V5
- cardiac markers (Initial)
 - CK-MB : 2.1 ng/ml
 - cTn-I : 0.1 ng/ml
- Echocardiography
 - no regional wall motion abnormality
 - LVEF : 63%

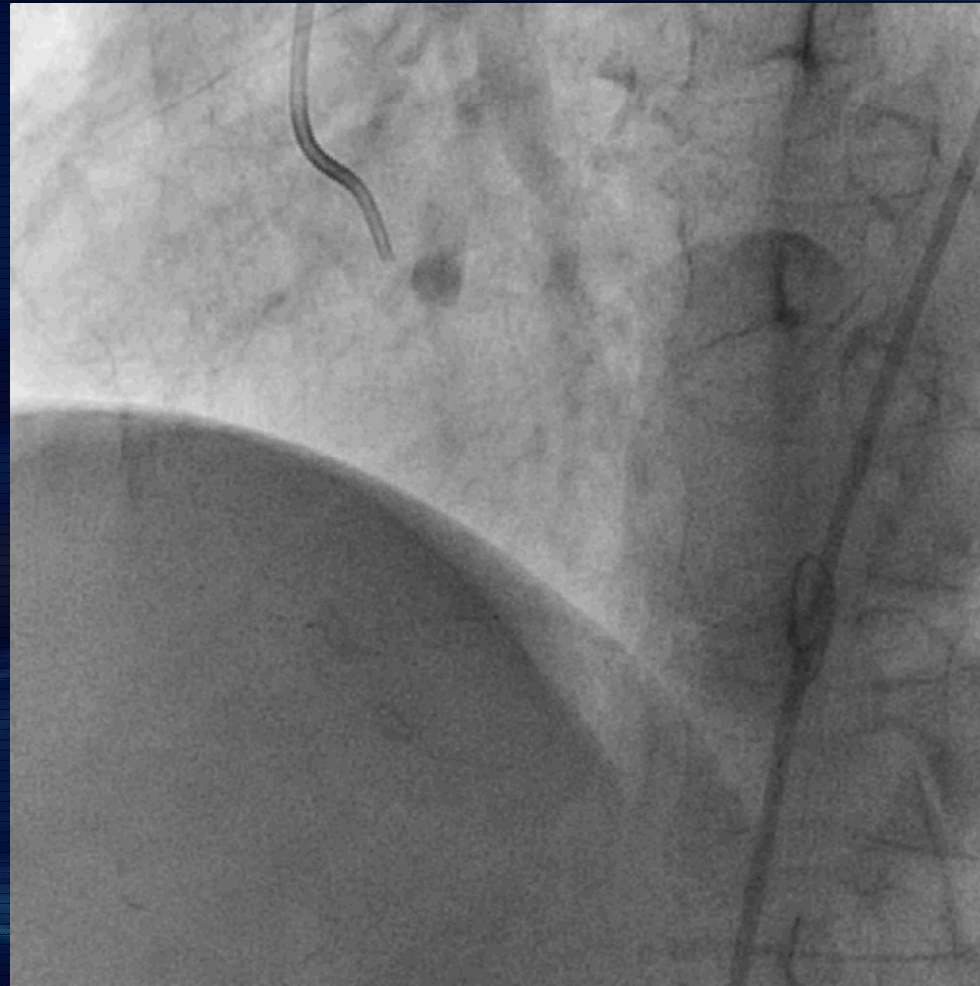
Feb. 2006

Left coronary angiography



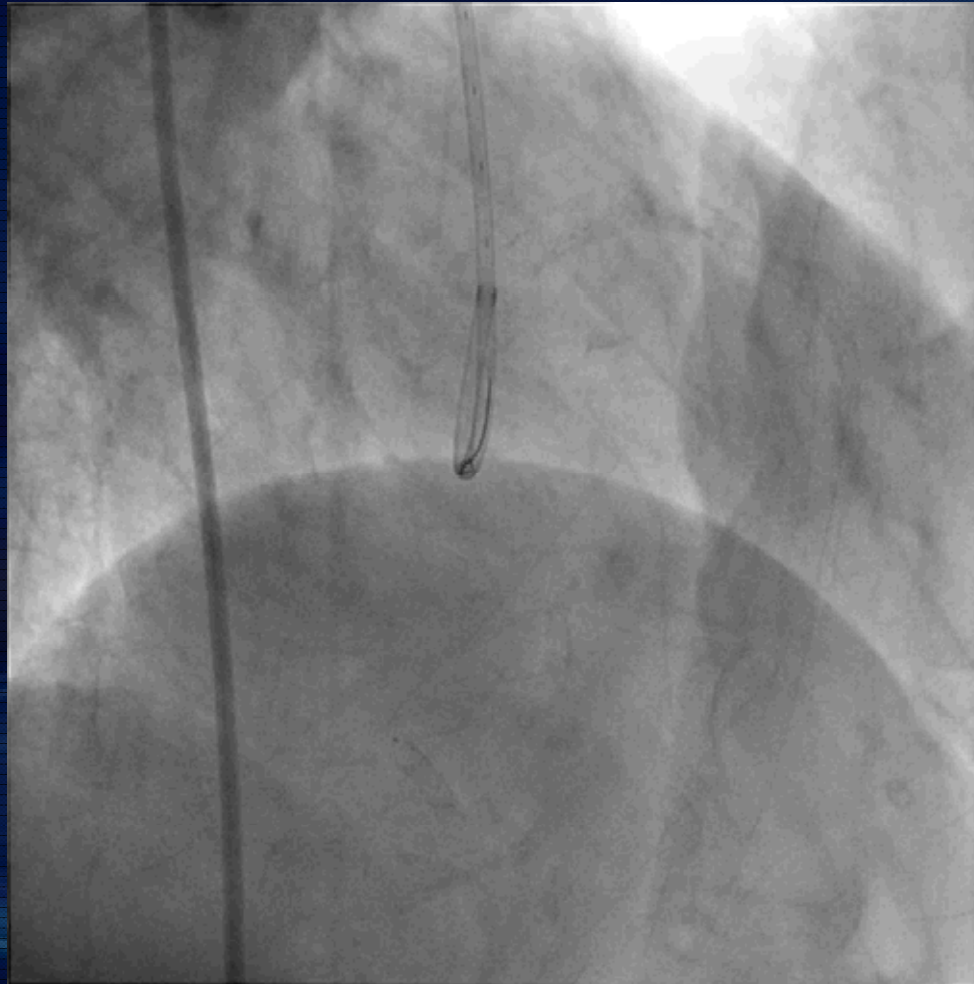
Feb. 2006

Right coronary angiography



Feb. 2006

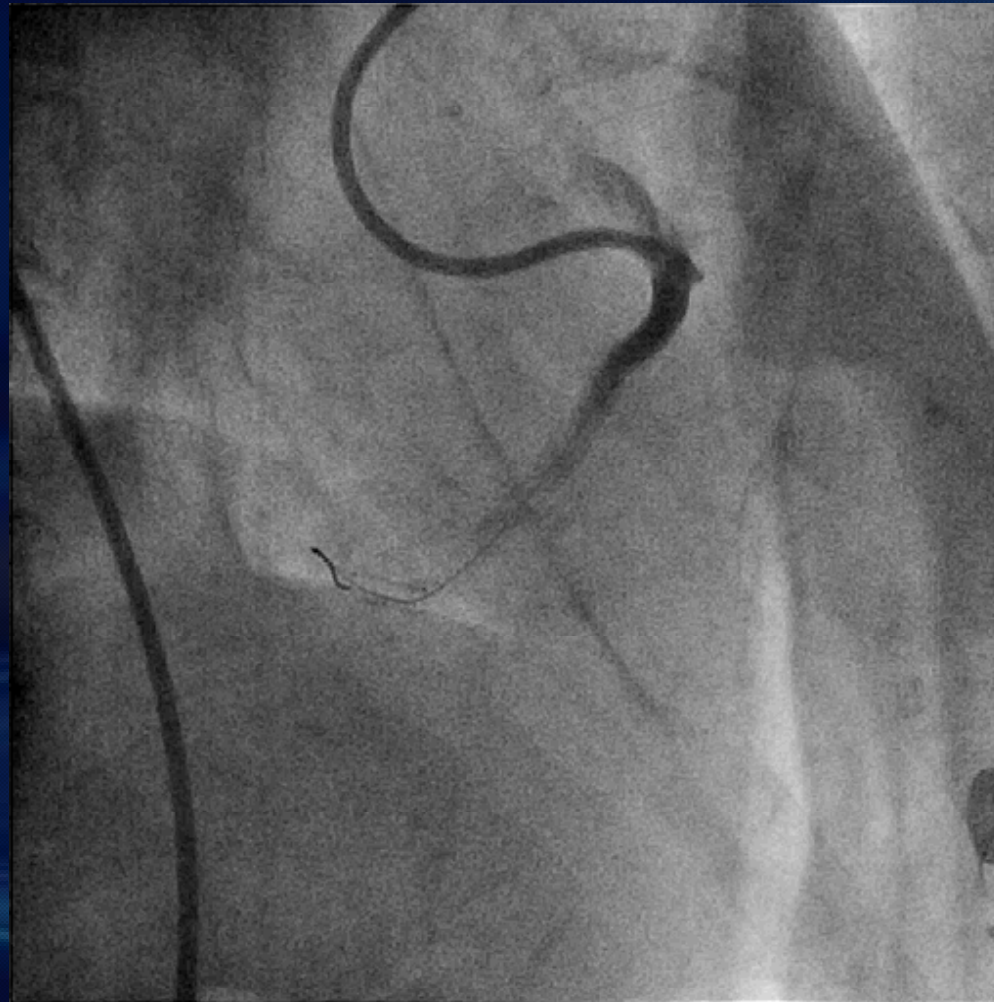
PCI of left coronary artery



LM to LAD: 3.5 × 33 Cypher and optimization using 4 mm sized balloon,
proximal LAD: 3.5 × 16, mid LAD: 2.75 × 24 Taxus

Feb. 2006

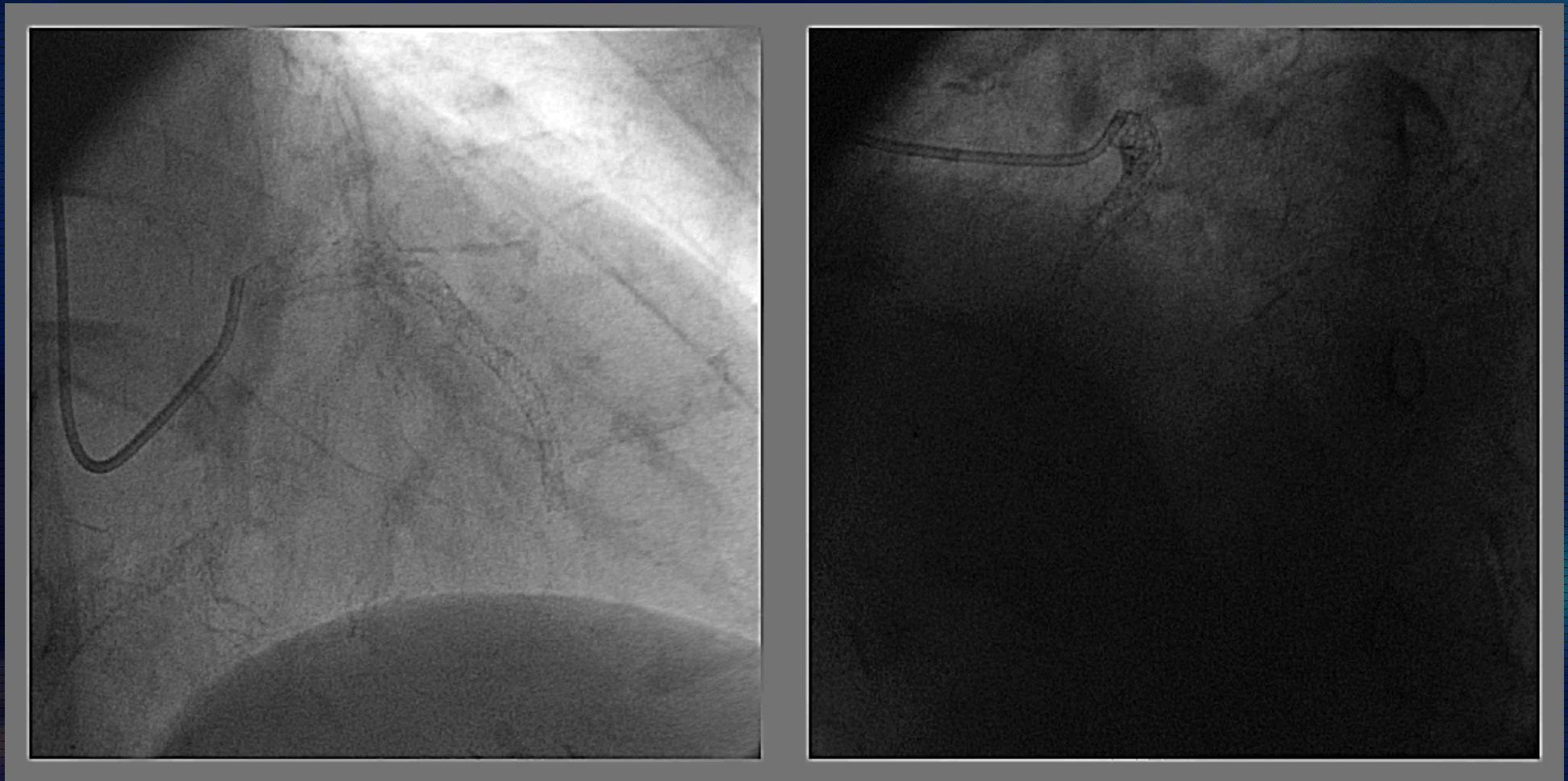
PCI of right coronary artery



proximal RCA:3.5×28 Taxus, mid RCA 3.5×28 Taxus

Jan. 2012

Left coronary angiography



Total occlusion in the mid LAD (in-stent)

Jan. 2012

Right coronary angiography



Jan. 2012

Right coronary angiography



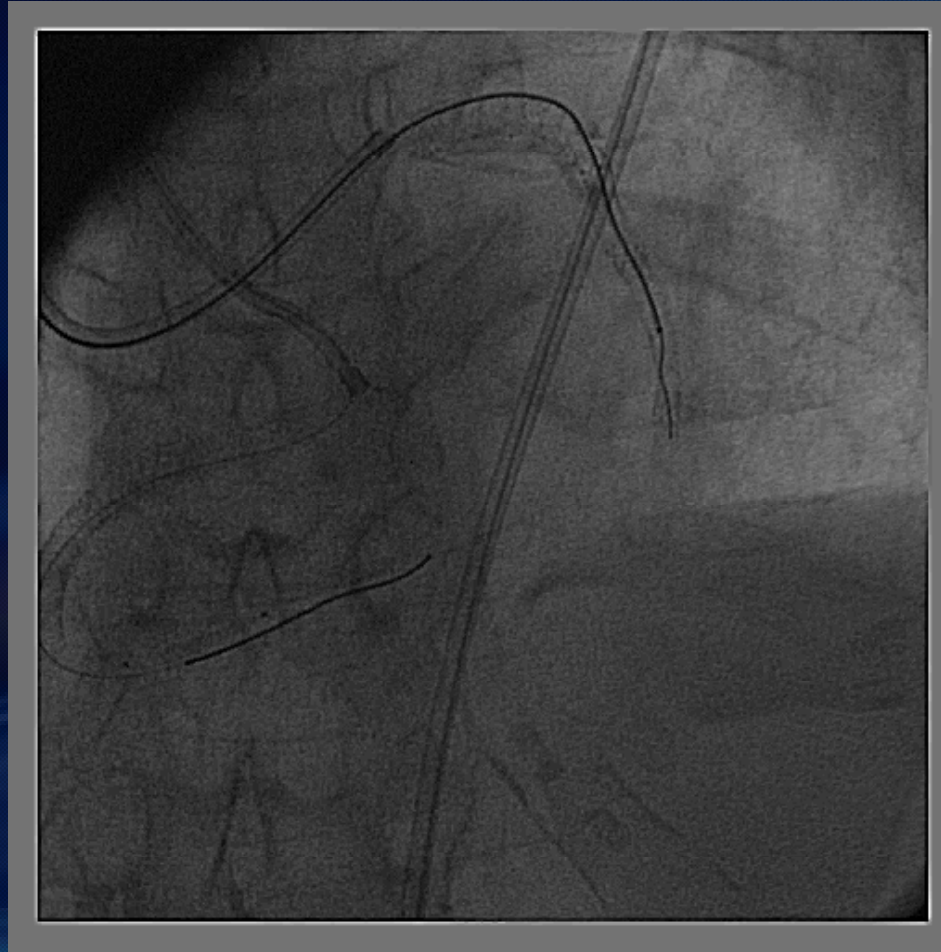
Collateral circulation to LAD

Jan. 2012

We decided to perform LADm CT0
PCI.

Jan. 2012

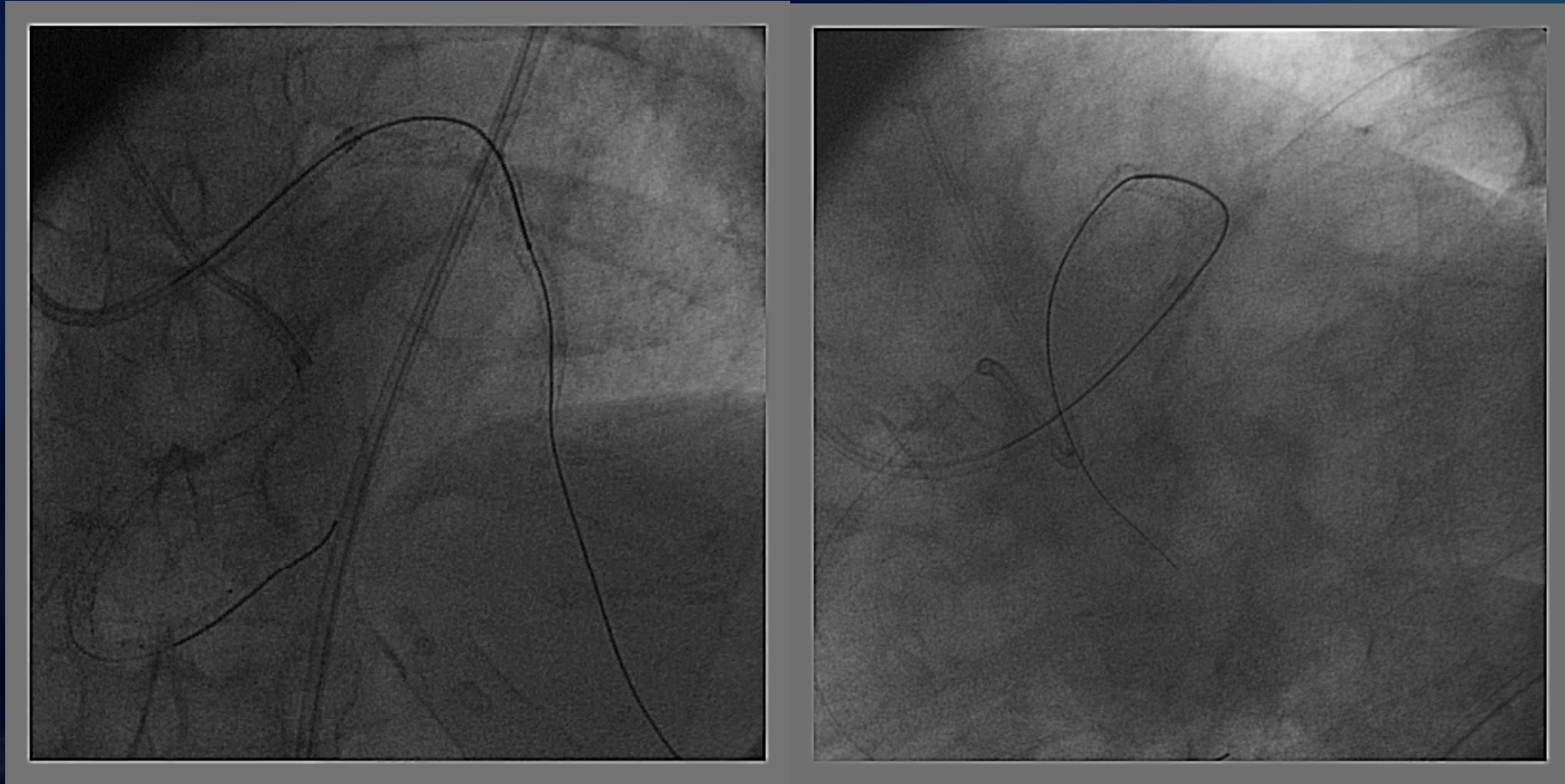
GW introduce



Filder FC with microcatheter was introduced to the LAD

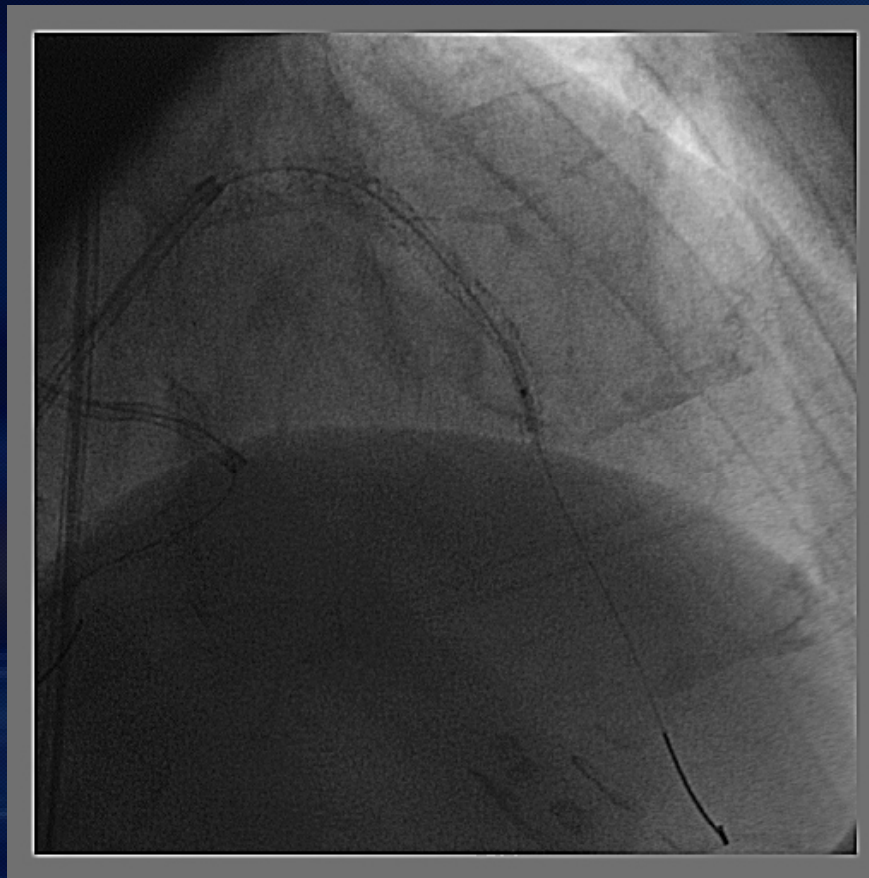
Jan. 2012

GW introduce



Filder FC with microcatheter was introduced to the LAD

Balloon dilatation



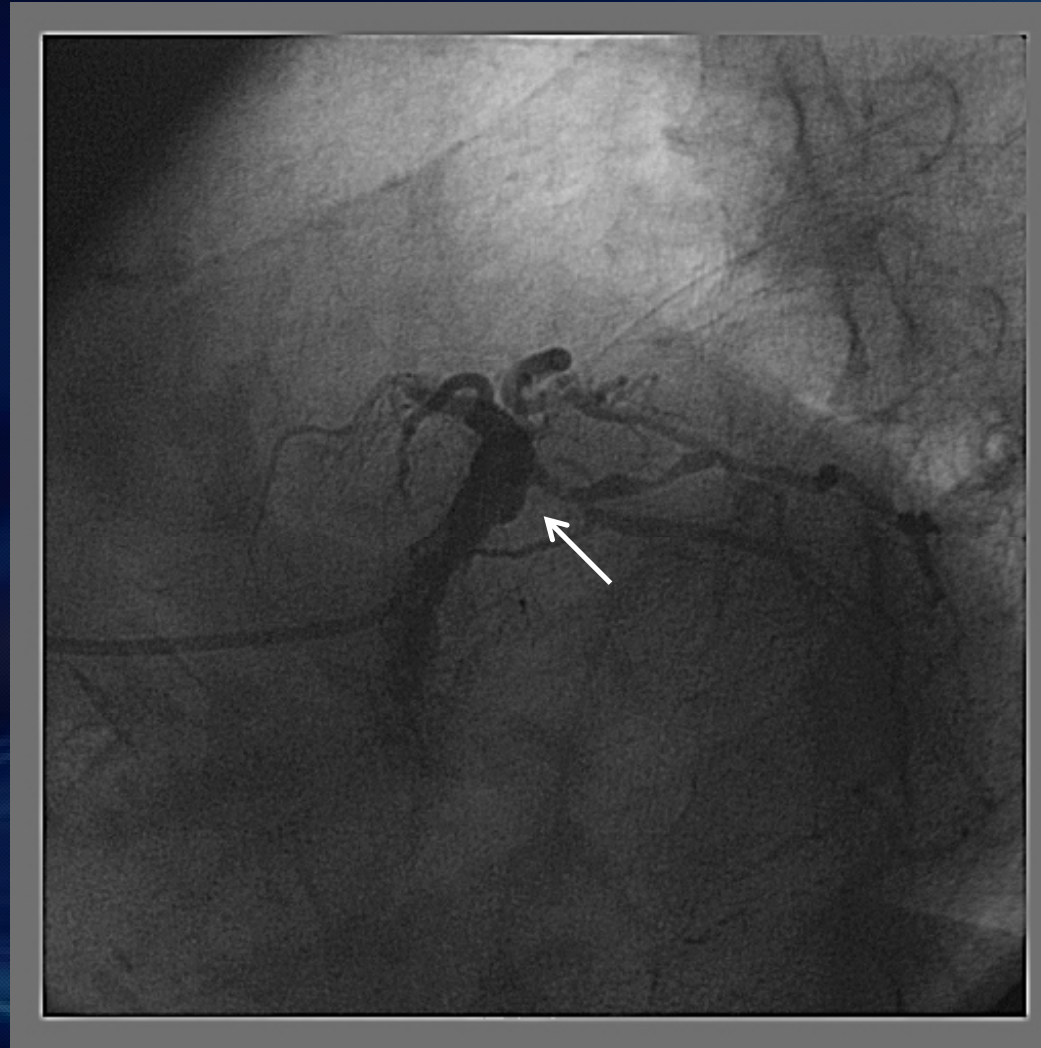
Dilatation with 1.25X10 sized Ryujin

Jan. 2012

We tried to introduce 3.0X12 sized Quantum balloon but there was strong resistance at the pLAD

Jan. 2012

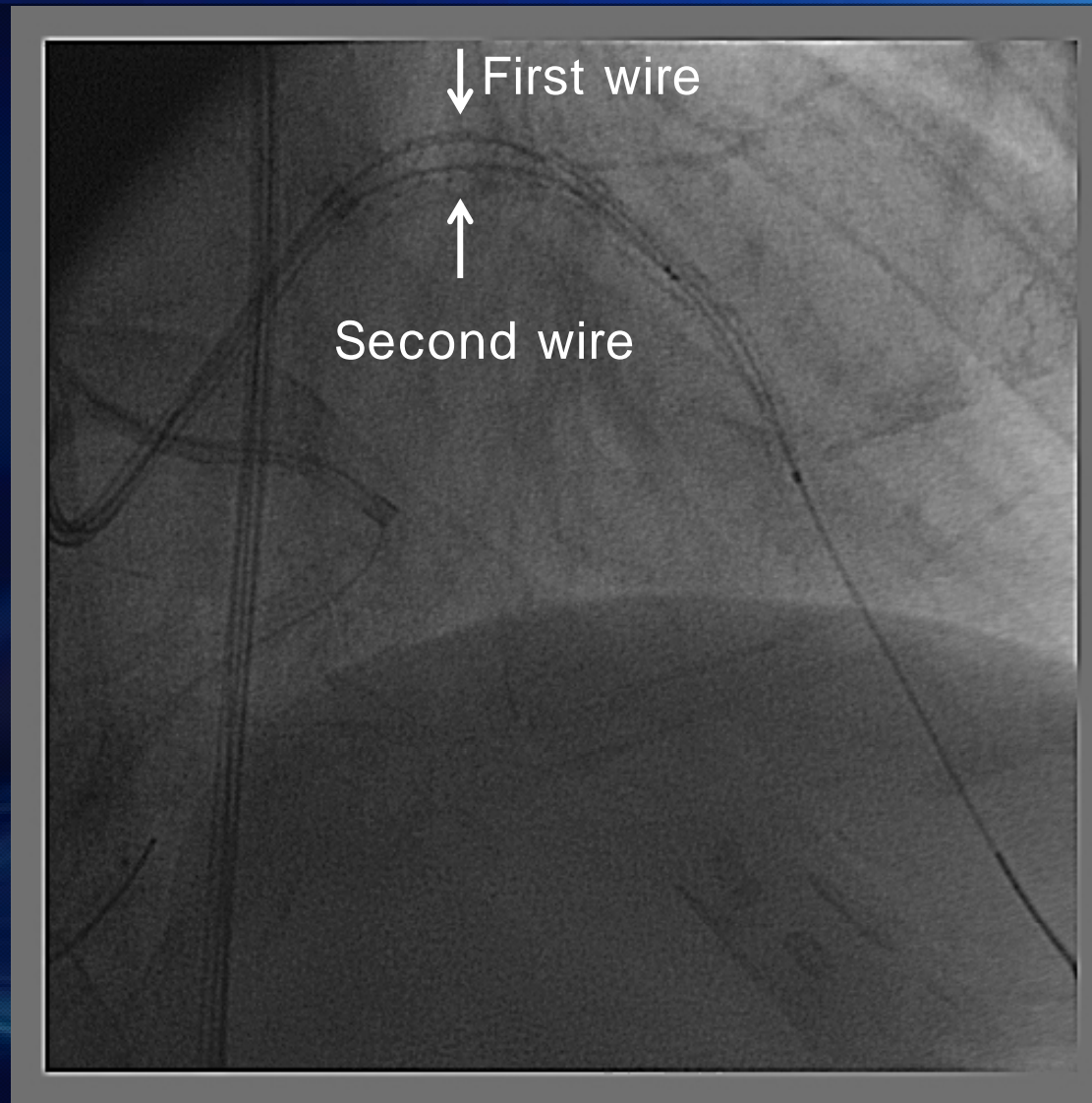
Spider view



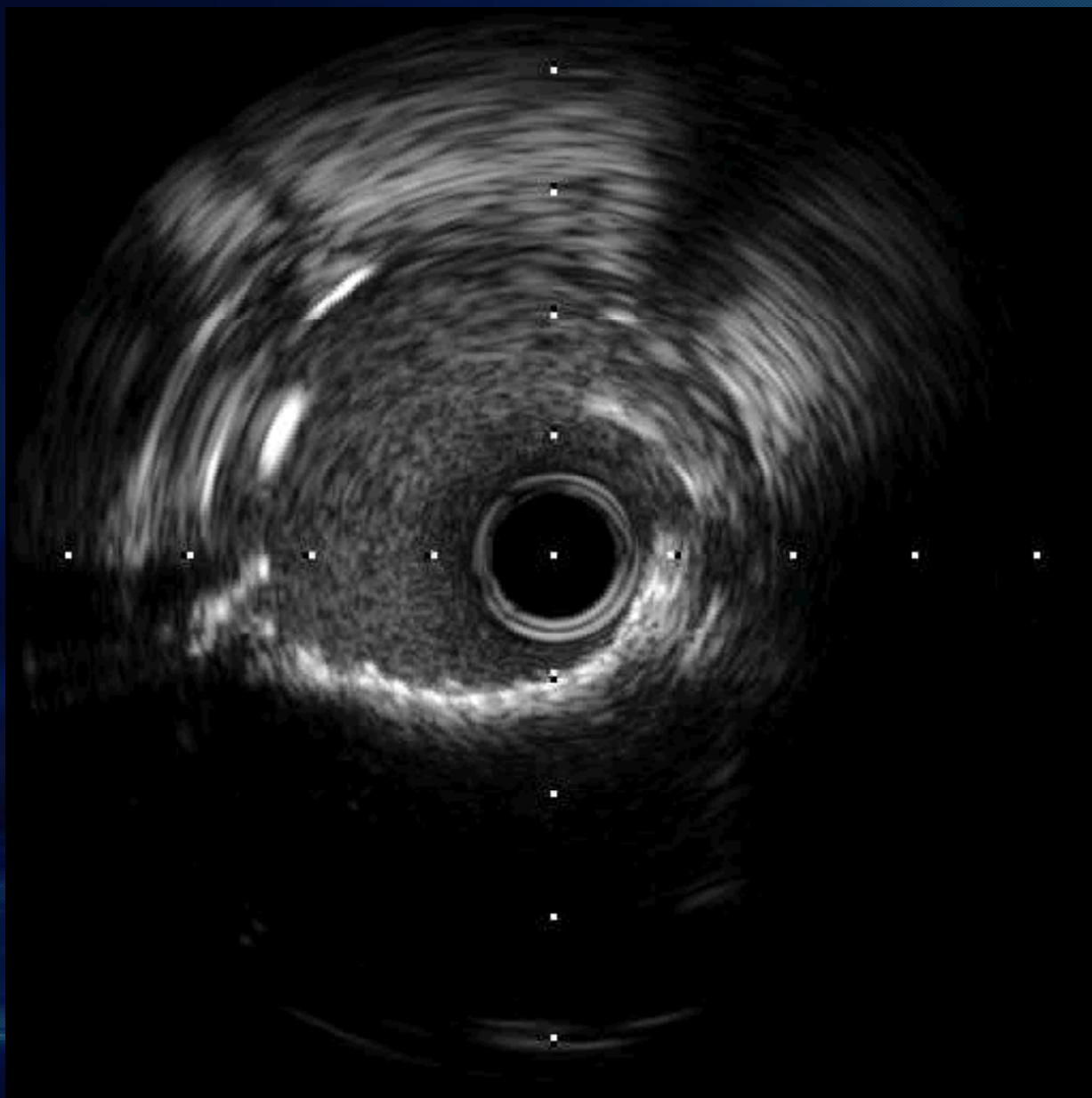
Aneurysmal change in the LM to pLAD

Jan. 2012

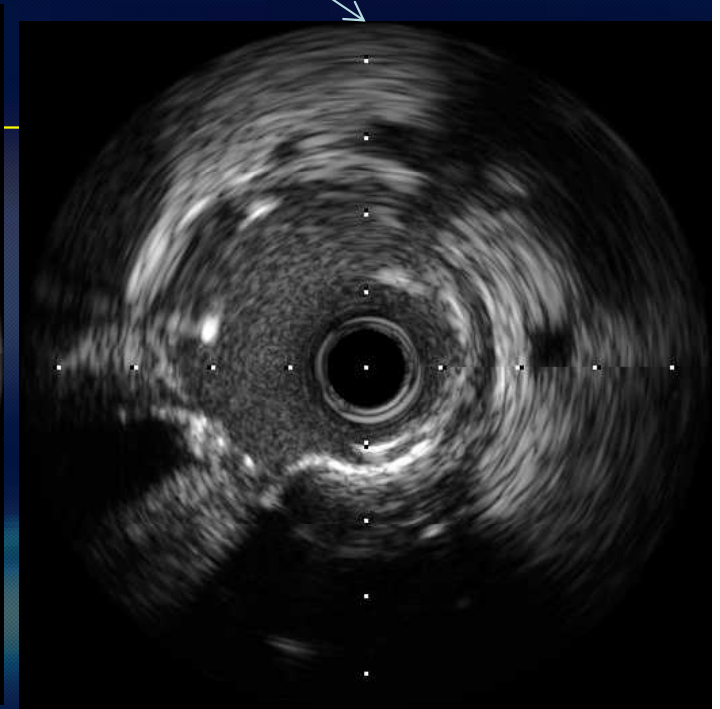
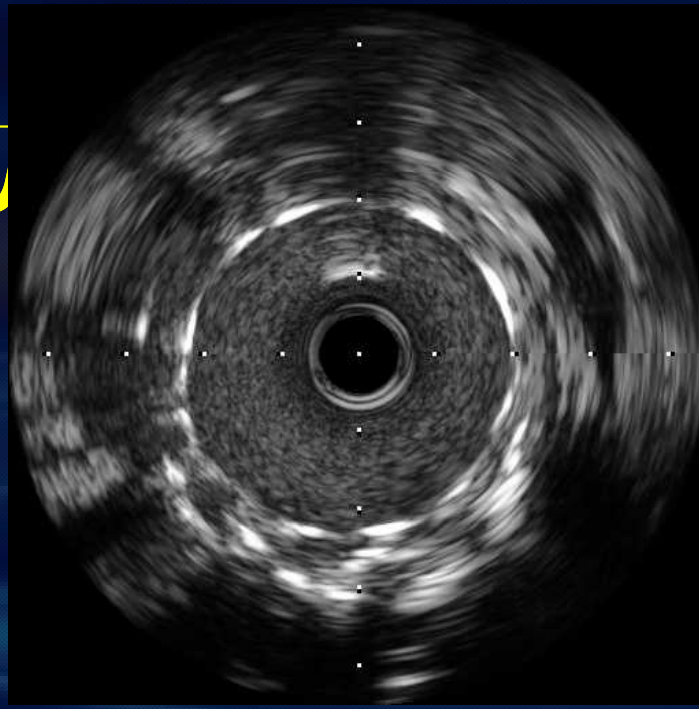
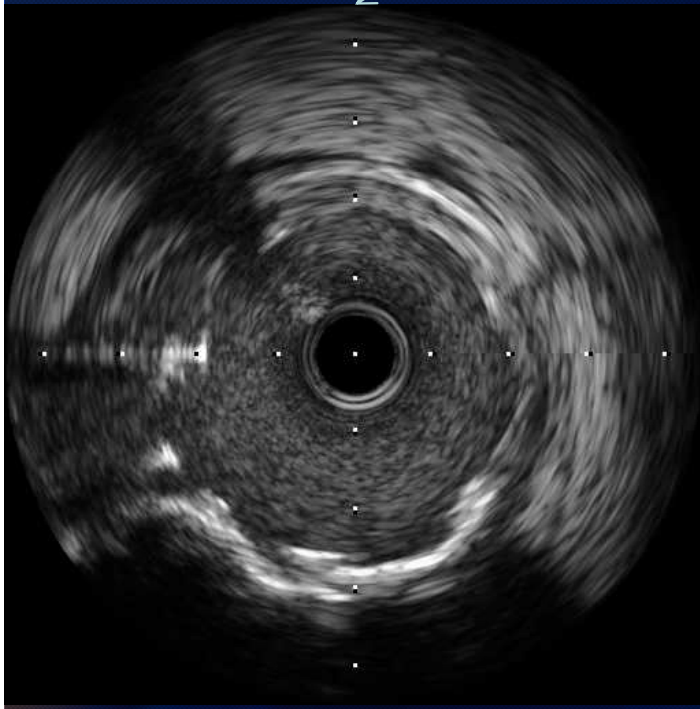
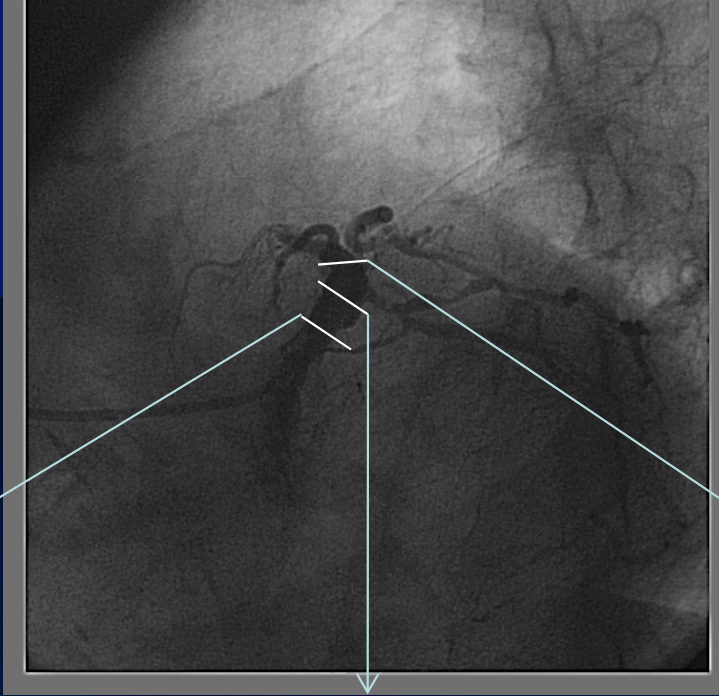
IVUS using second wire



We introduced another wire in the LAD and performed IVIS



First guide wire was path through extra stent aneurysmal space



First guide wire was path through extra stent aneurysmal space

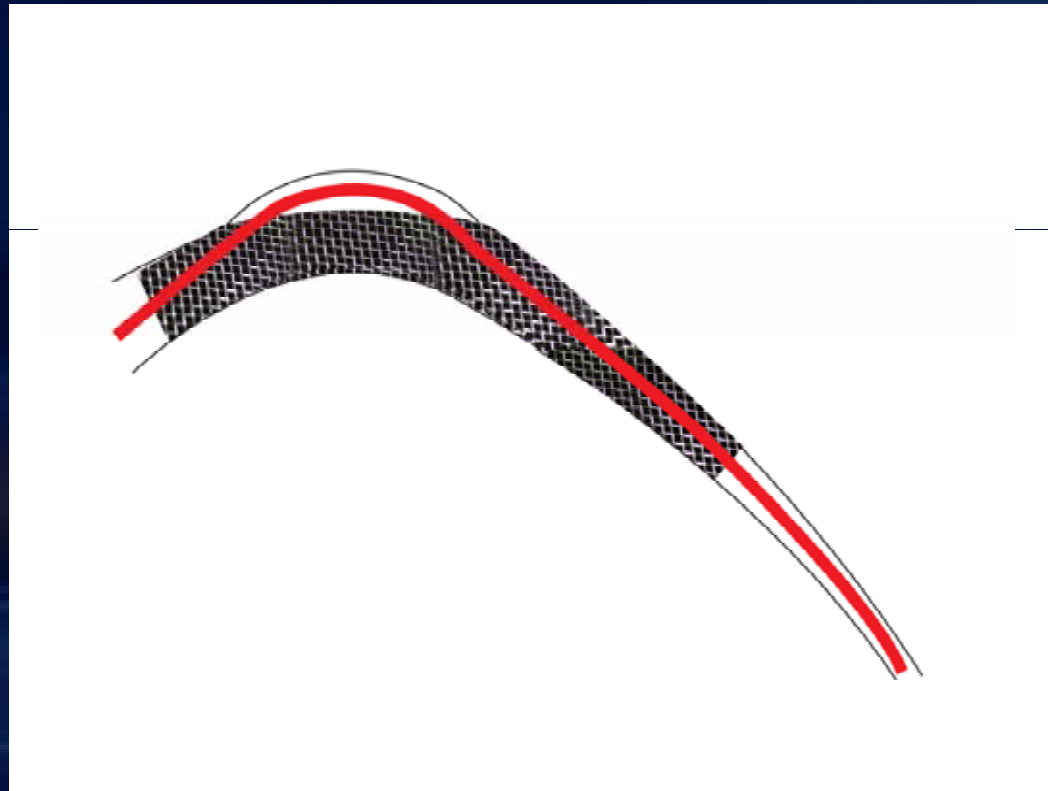
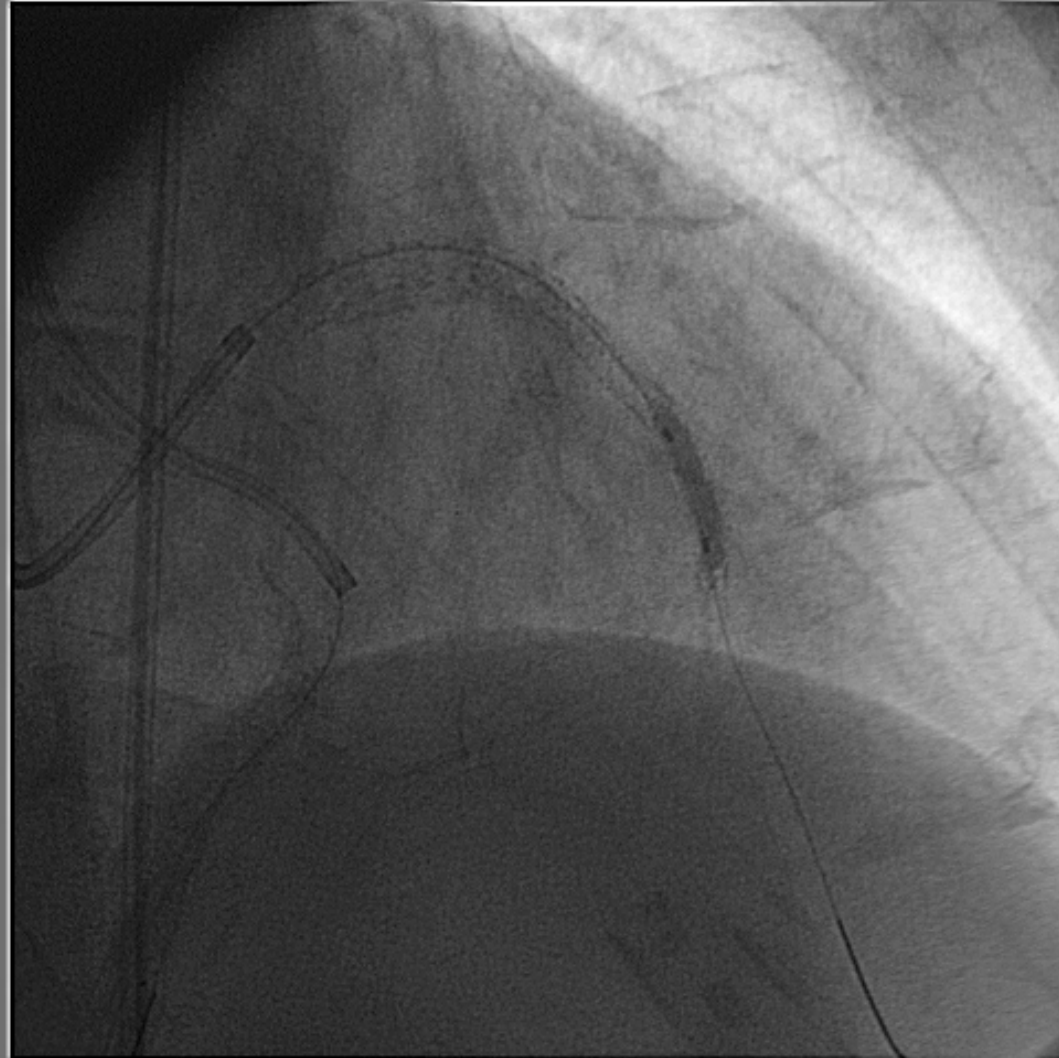


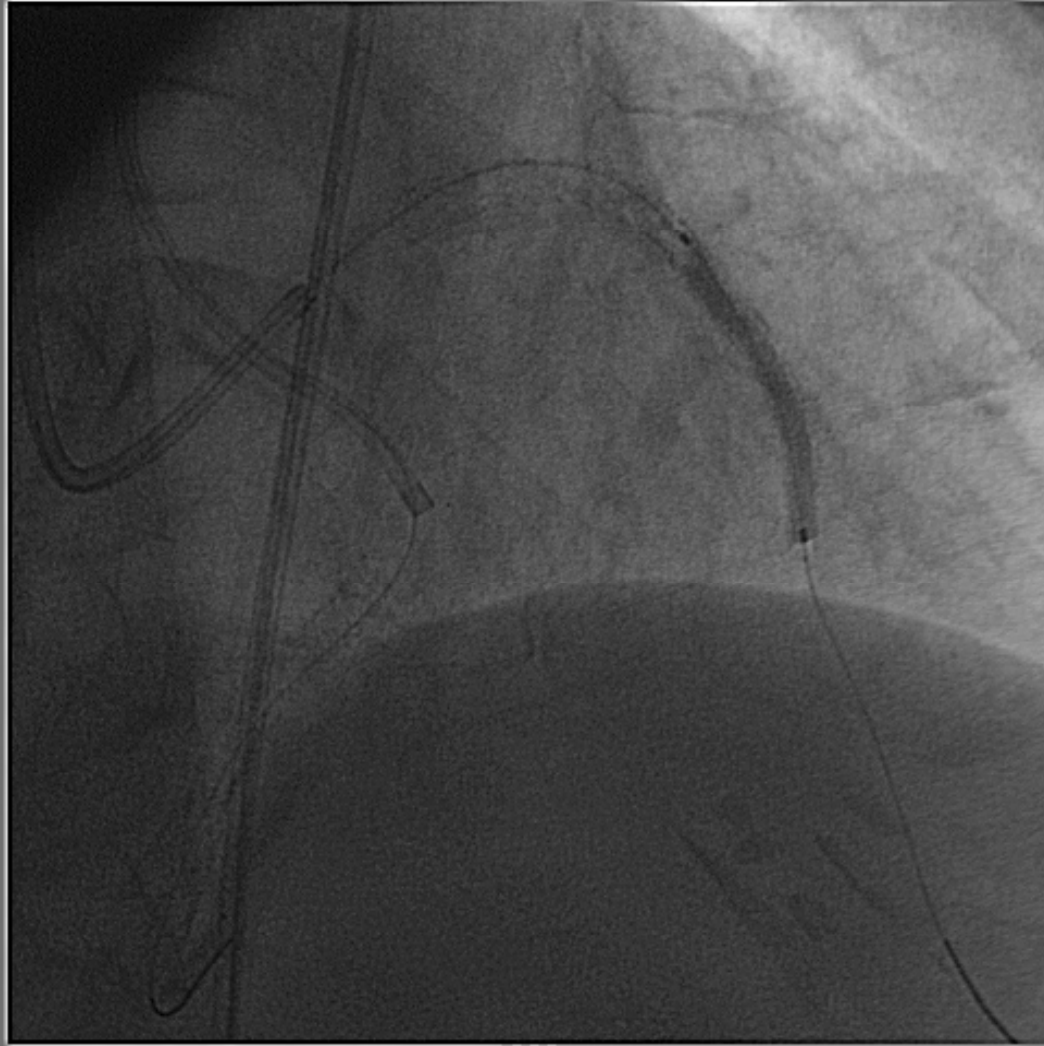
Diagram of first guide wire

Jan. 2012



Quantum 3.0 X 12mm, 18 atm

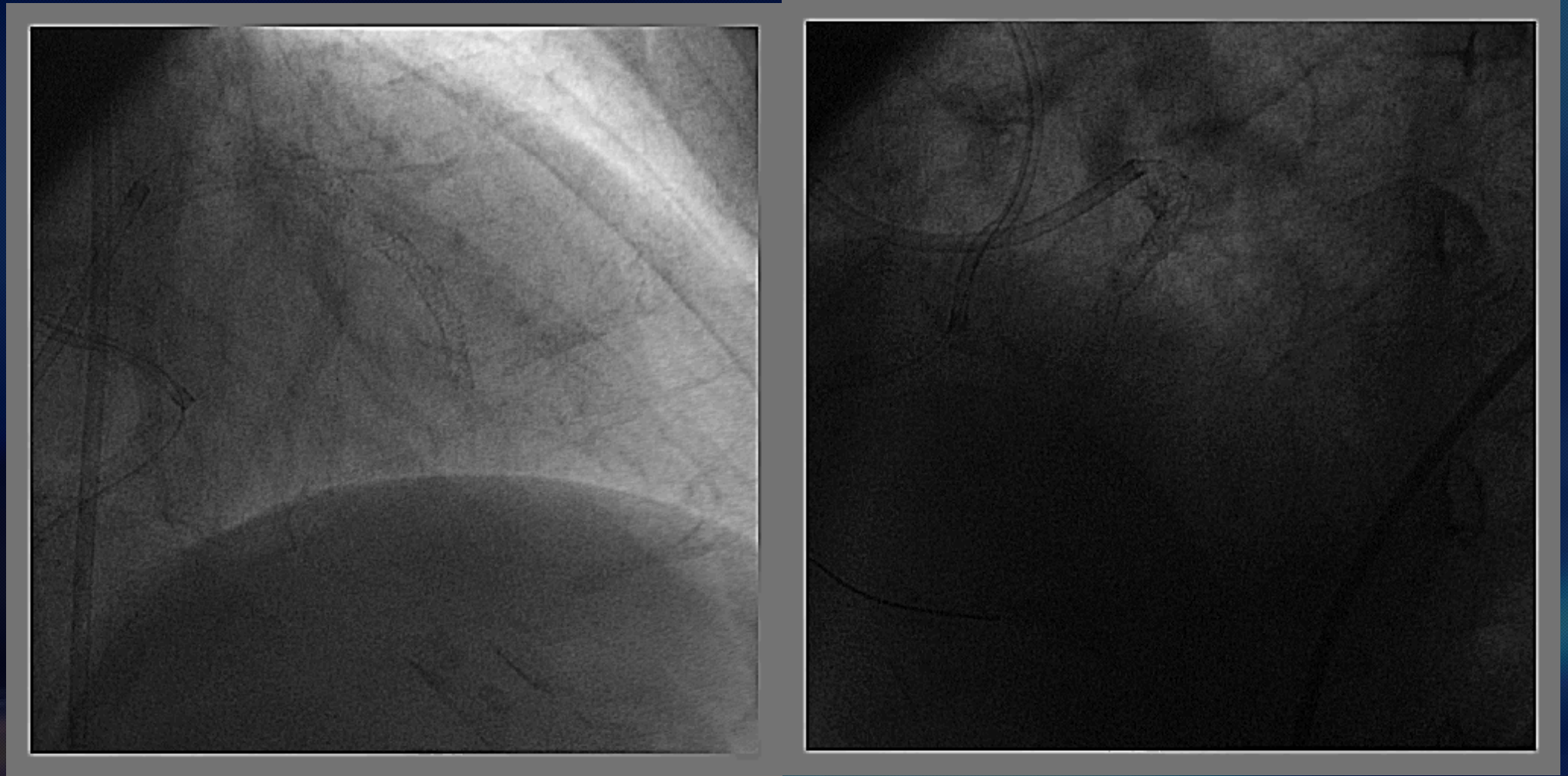
Jan. 2012



DEB 3.0 X 30mm, 12 atm

Jan. 2012

Final Anniography

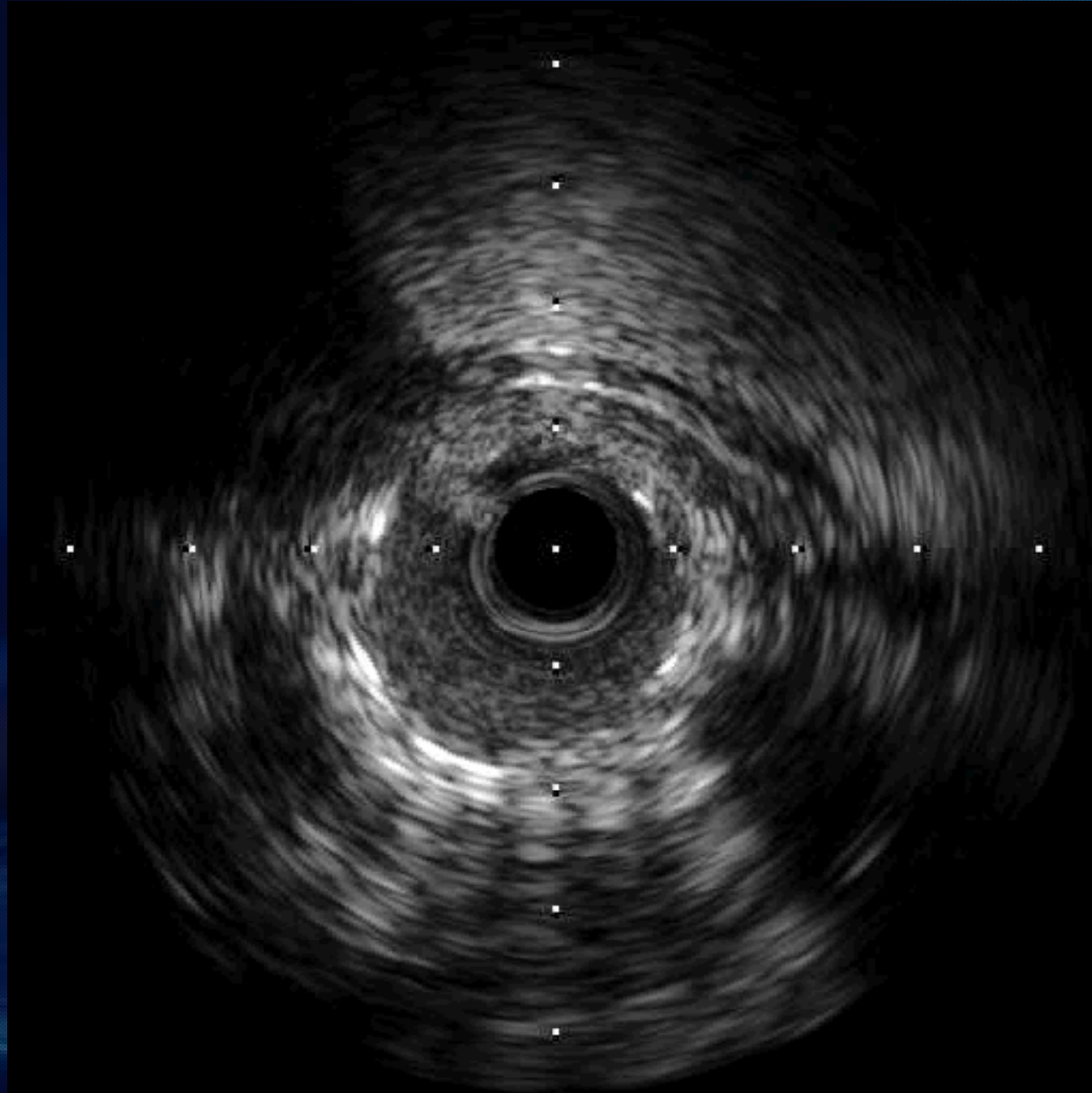


Summary

- The guide wire was introduced into the LAD in-stent CTO lesion.
- After 1.25 mm sized balloon dilatation, we tried to introduce 3.0X12 sized Quantum balloon but there was strong resistance at the distal LM.
- Another guide wire was introduced into different pathway
- By IVUS examination, we confirm the first guide wire was path through extra stent space
- We could perform DEB angioplasty safely via another intra stent guide wire.

Thank You for Your Attention

IVUS after DEB angioplasty



Jan. 2012

PCI of RCA



Nobori 3.5 X 14mm