- A misfortune turns into a blessing -
Evaluation of Dissection for True Lumen and False Lumen in Chronic Total Occlusion
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IVUS Guided CTO intervention

Overview
IVUS guided wiring is a feasible and effective method
Not standard technique for CTO lesions
Final method to a misfortune turns into a blessing of CTO
  PCI, when other methods failed

Role in CTO intervention
Identification of the guidewire entry
Navigate the guidewire from false lumen to true lumen
Assess complication
Adjust stent expansion
IVUS guiding during CTO PCI

Looking for echo free space: lumen
Identification of intima and media
Wire position
**Practical Tips for CTO PCI**

Keep the wire inside “the External Elastic Membrane” and to bring it to the true lumen distally

Pre-dilatation with a small balloon is essential to put an IVUS catheter into the sub-intimal space

Especially recommended before the enlargement of the subintimal space

Volcano catheter with short tip preferable (10 mm)
Atlantis Pro 2 catheter - small vessel and side branch

**Disadvantages**

Long dissections
Dilatation of false lumen
Coronary perforation possible
Male/69, Stable angina

Chief complaint: effort chest pain

P/I

69 yr old male pt was transferred from private clinic due to effort related chest pain. OPD coronary angiography and PCI were performed

Risk Factors:

- Hypertension (+)
- Ex-smoker 30 pack year

ECG: non-specific ST-T changes

Echo: Normal, EF= 59 %
Initial CAG
6F JRG 4.0 guiding catheter
Fielder guidewire
Miracle 3 guidewire with Progreat microcatheter support
Conquest Pro guidewire with Progreat microcatheter support
Lacros balloon 1.3x10 mm
True lumen vs False lumen
Male/39, Stable angina

**Chief complaint:** effort chest pain

**P/I**

39 yr old male pt was transferred from private clinic due to effort related chest pain. OPD coronary angiography and PCI were performed

**Risk Factors:**

- Smoking(+) 20 pack year

**ECG:** WNL

**Echo:** Normal, EF= 61 %

**Treadmil test:** positive study, stage 3
Initial CAG
6F XB 3.5 guiding catheter
Fielder guidewire
Miracle 3 guidewire with Excelsior microcatheter support
Conquest Pro guidewire with Excelsior microcatheter support
Miracle 3 guidewire
with Excelsior microcatheter support
Parallel wire technique
- Fielder guidewire in false lumen
- Conquest Pro guidewire in true lumen

Apollo Balloon 1.5x15 mm
Fielder guidewire
Conquest Pro
Final CAG and IVUS
감사합니다.

Thank you for your attention