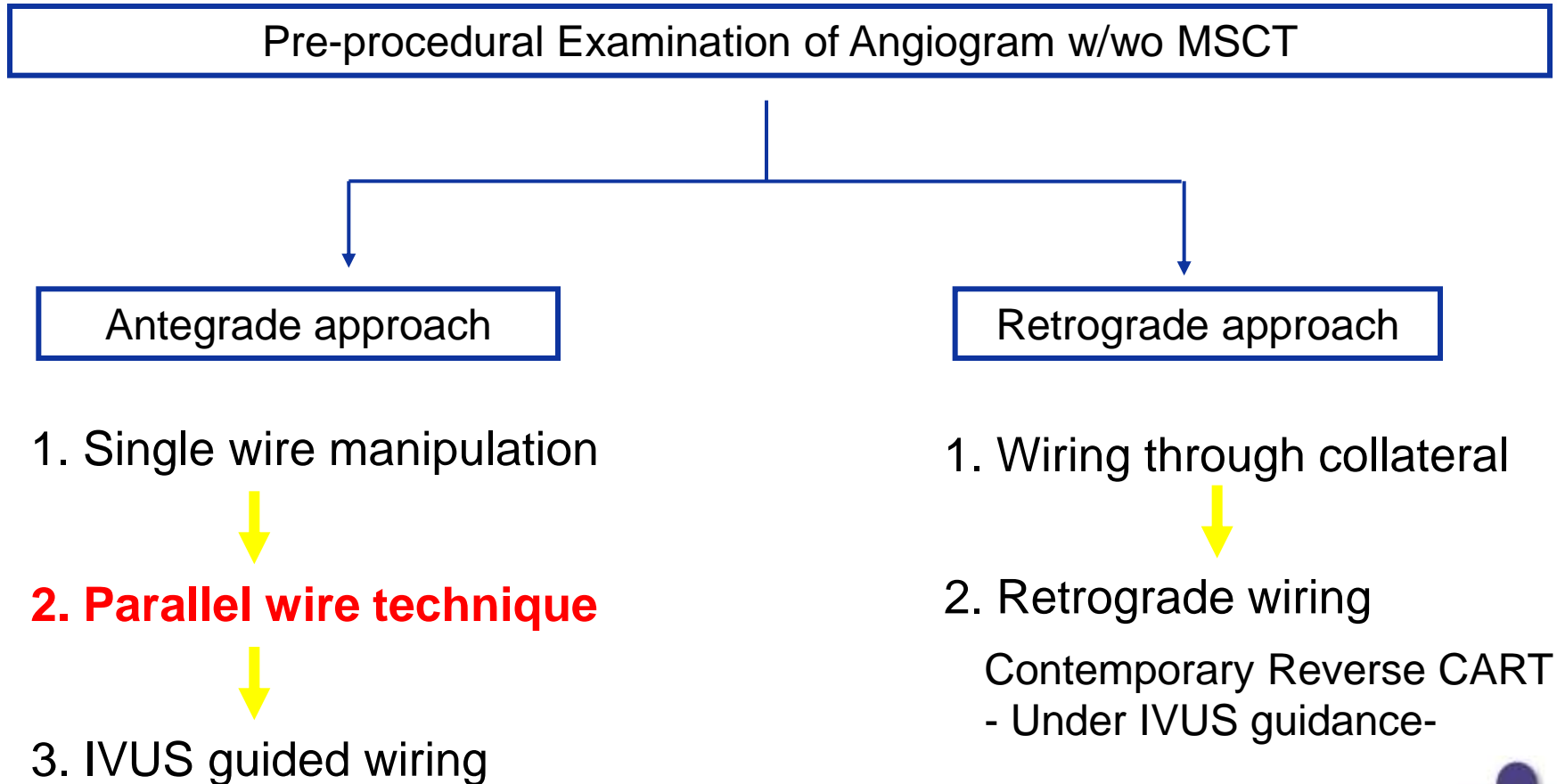


Fundamental of PWT

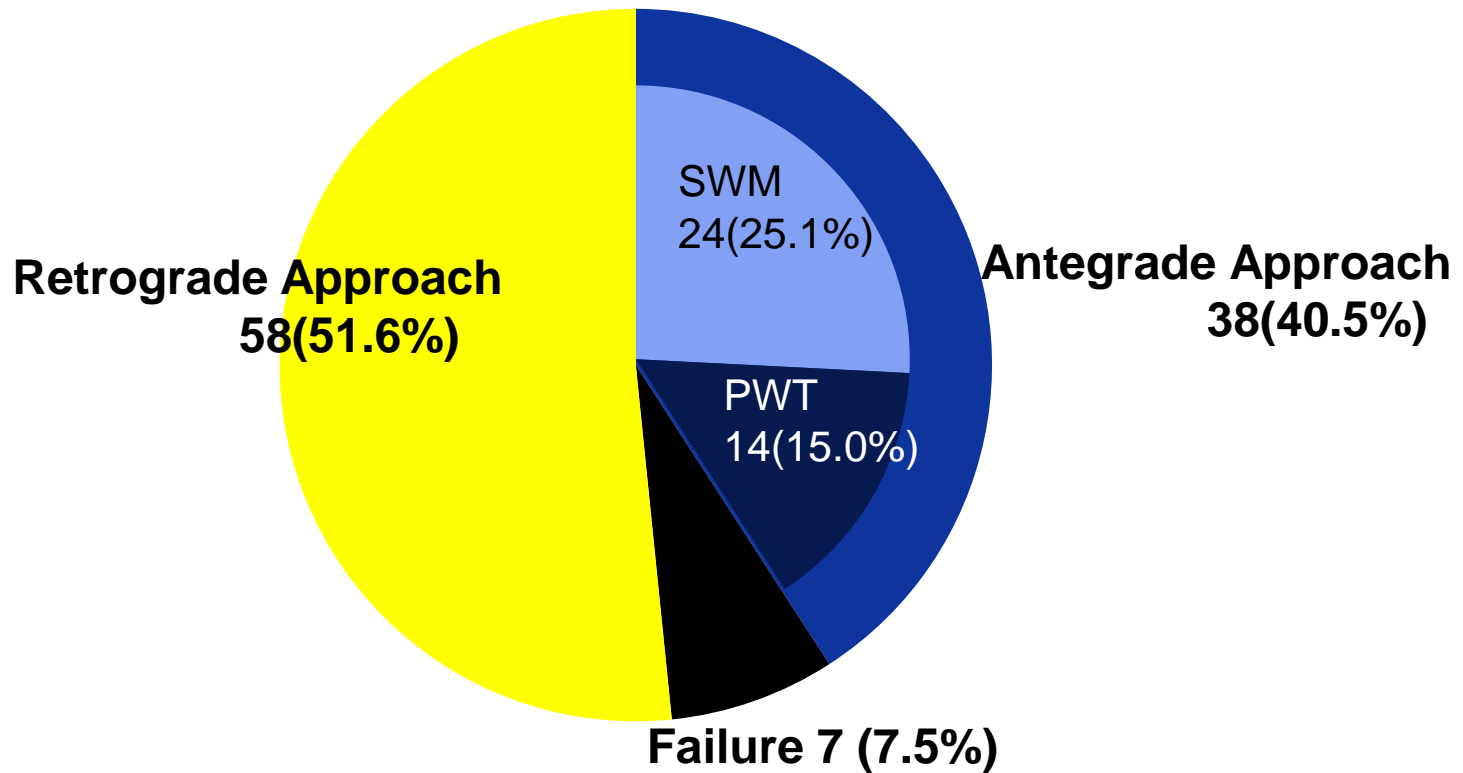
Yasumi Igarashi, M.D. Ph.D.
Division of Cardiology
Cardiovascular Center
JCHO Hokkaido Hospital



Flow chart of Current CTO PCI Strategy



Personal CTO crossing strategies (n=93:2012.10~)



Flow chart of Current CTO PCI Strategy

Pre-procedural Examination of Angiogram w/wo MSCT

Antegrade **approach**

1. Single wire manipulation



2. Parallel wire technique



3. IVUS guided wiring

Retrograde approach

1. Wiring through collateral



2. Retrograde wiring

Contemporary Reverse CART
- Under IVUS guidance-

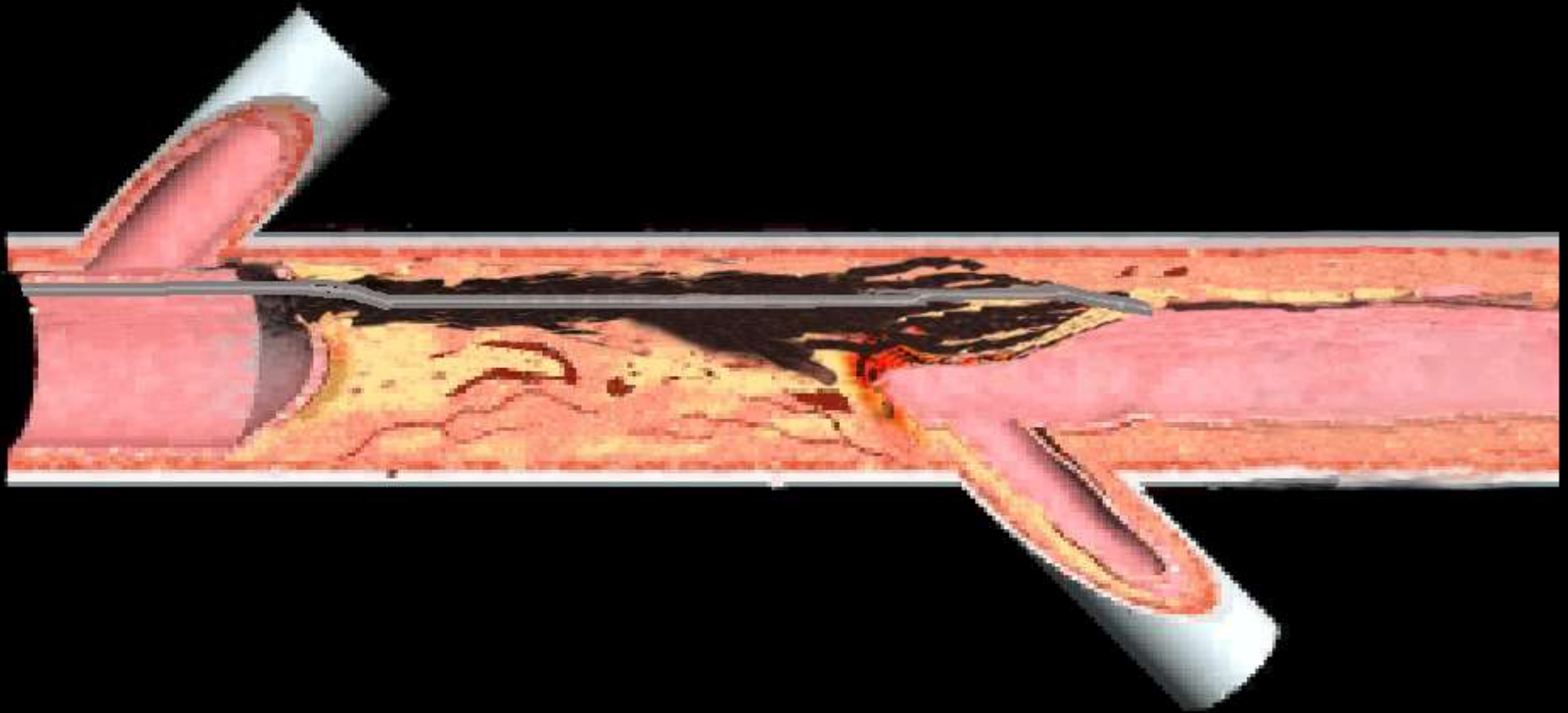


Issues in Parallel Wire Technique

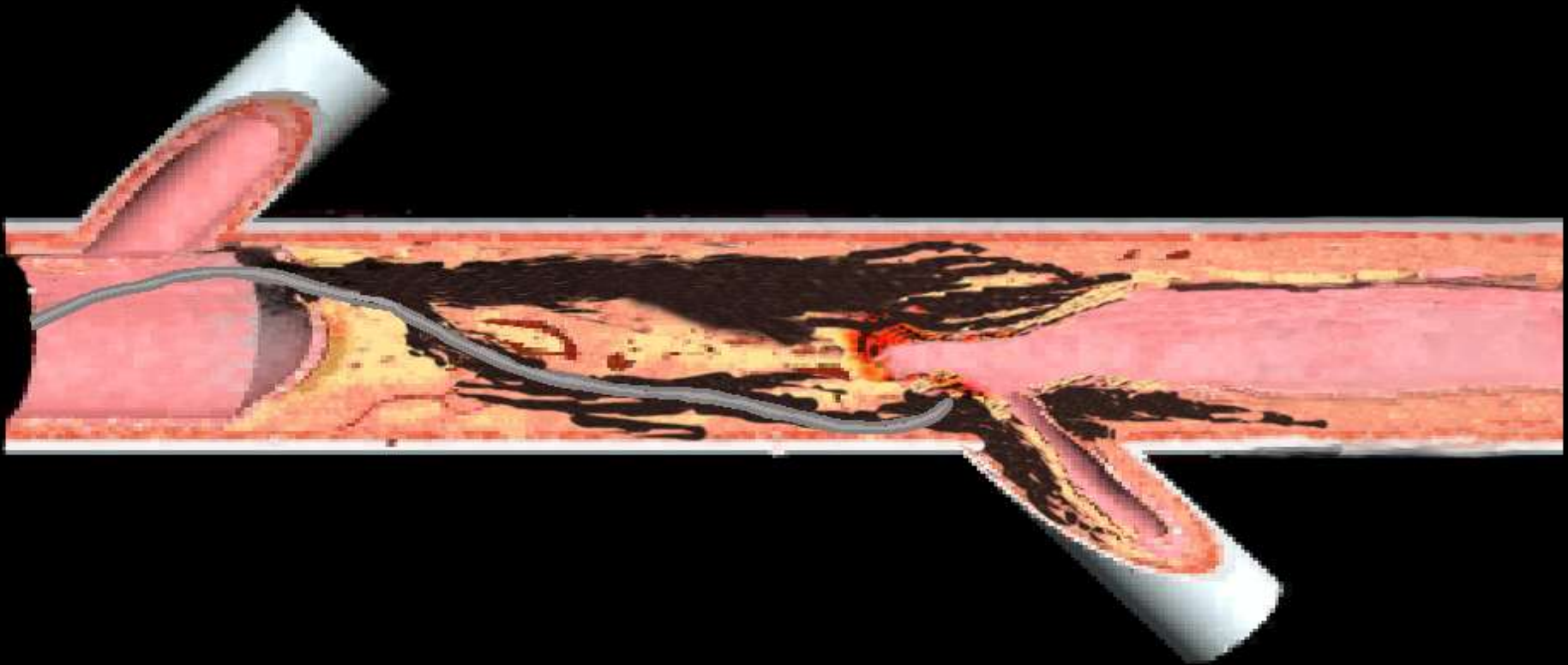
- 1) Timing to switch from SWM to PWT
- 2) Complicated set up for PWT
- 3) Selection of the 2nd Guide Wire and Micro-catheter



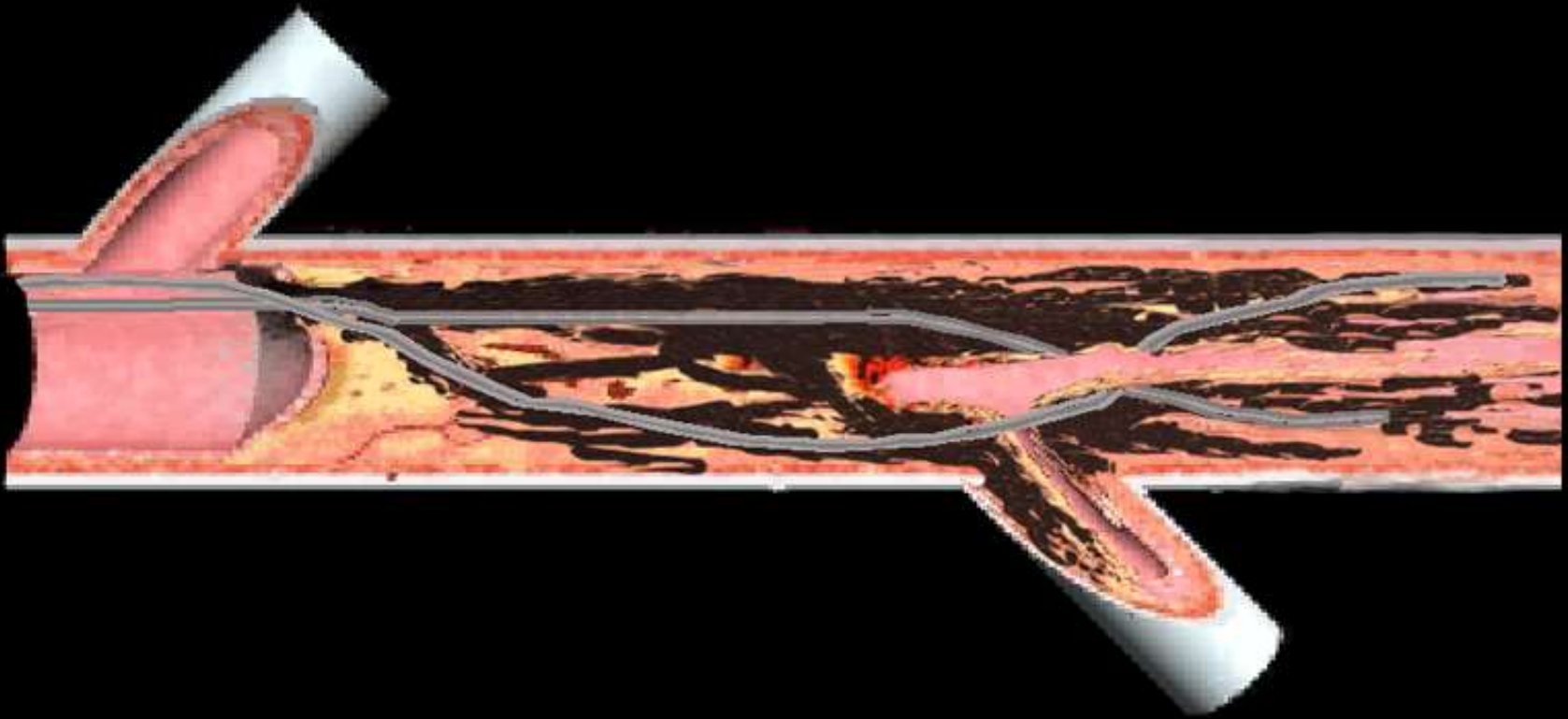
Single wire manipulation



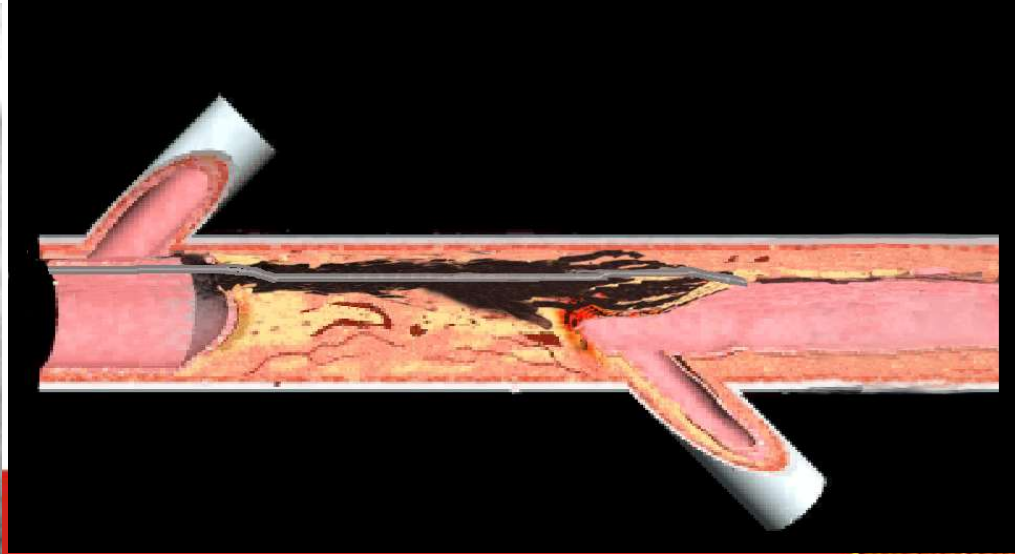
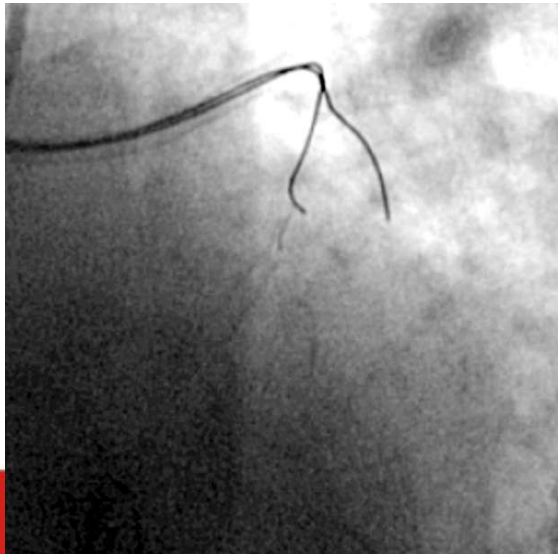
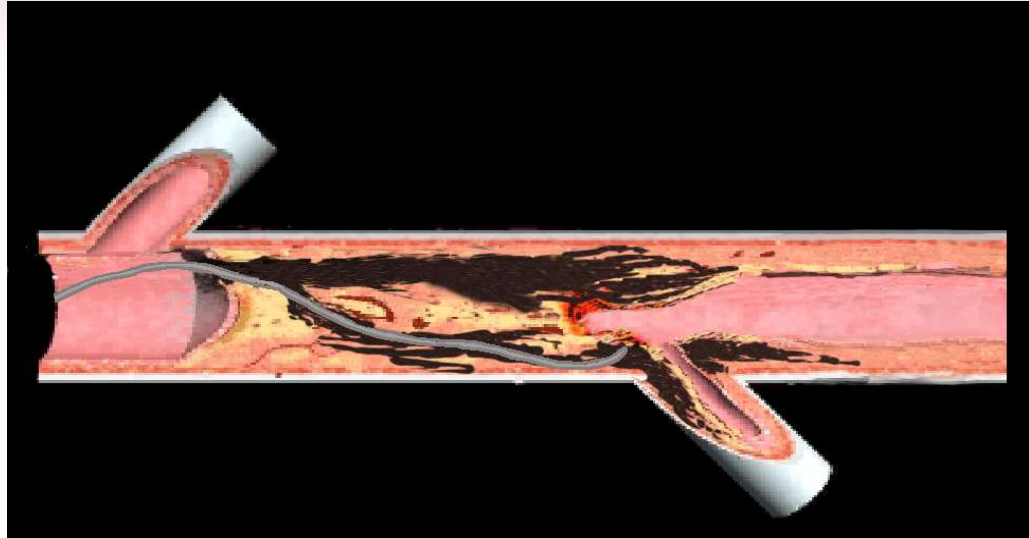
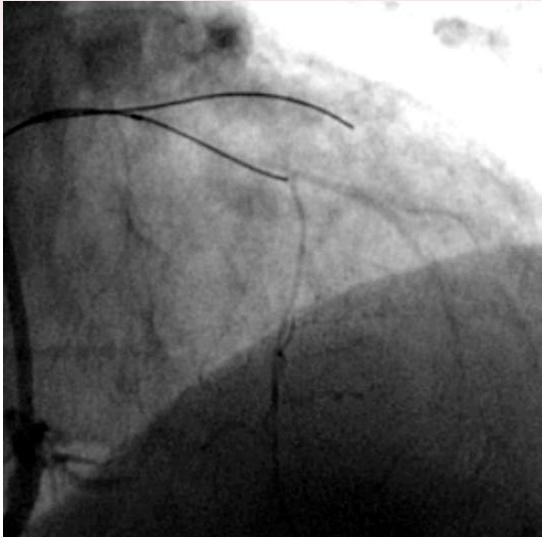
Single wire manipulation



Parallel wire technique



Reccomended switching timing from SWM to PWT

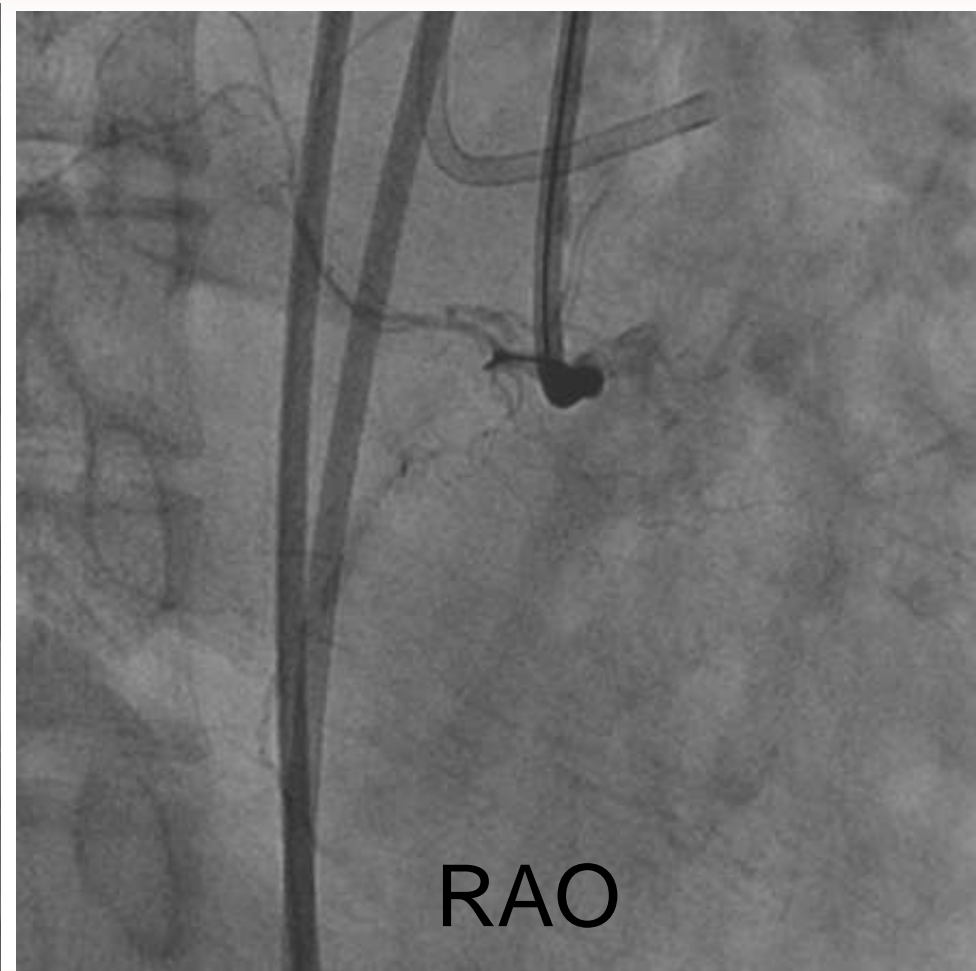
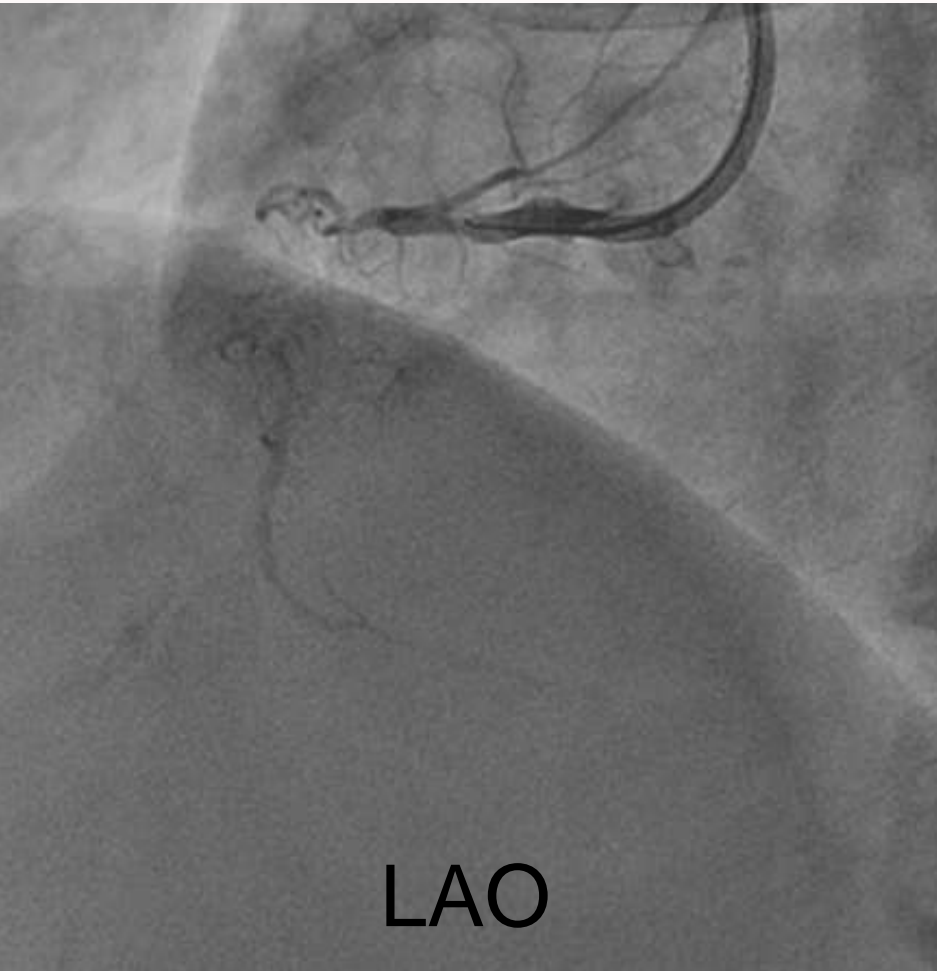


Issues in Parallel Wire Technique

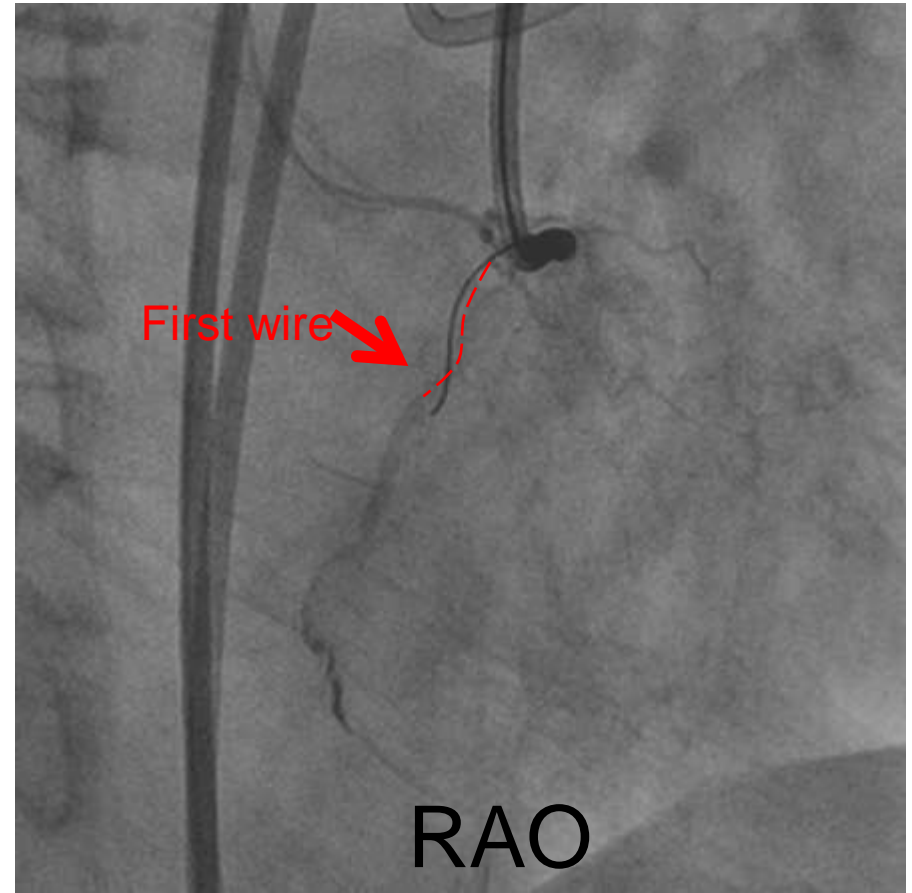
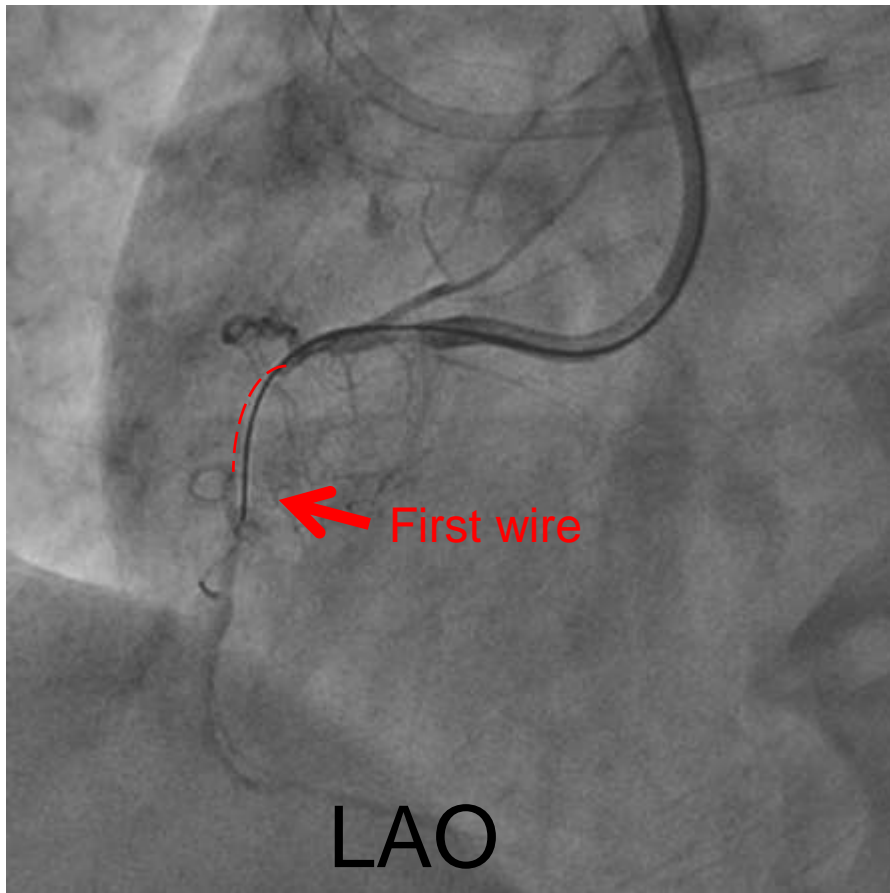
- 1) Timing to switch from SWM to PWT
- 2) **Complicated set up for PWT**
- 3) Selection of the 2nd Guide Wire and Micro-catheter



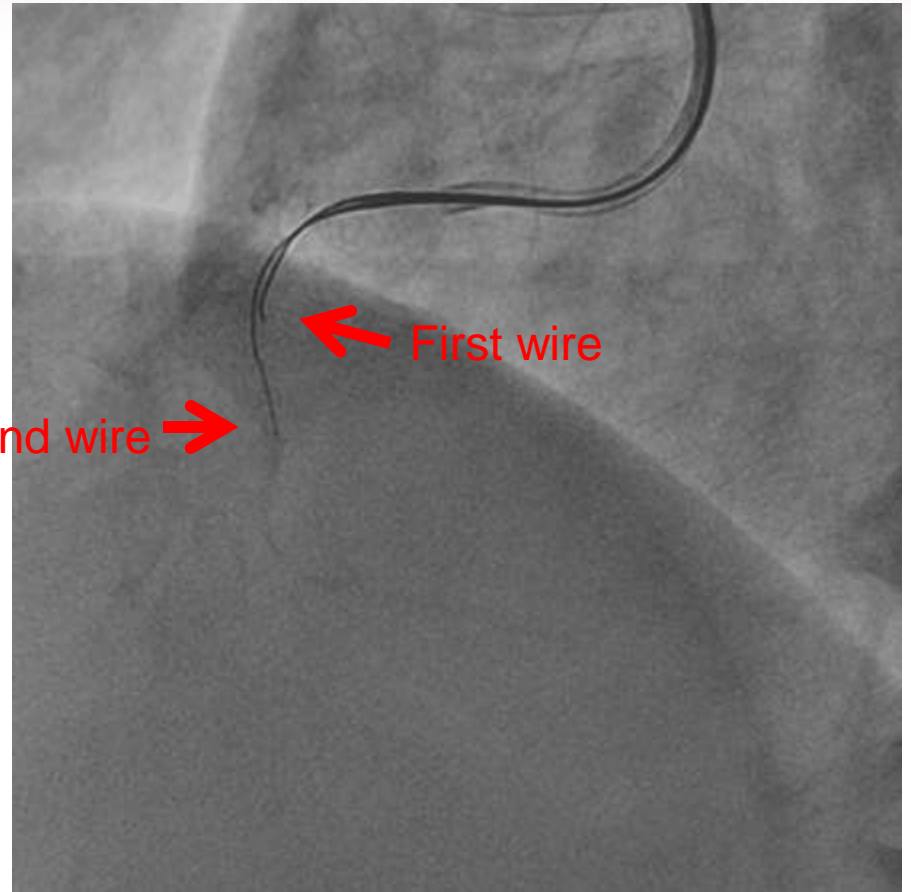
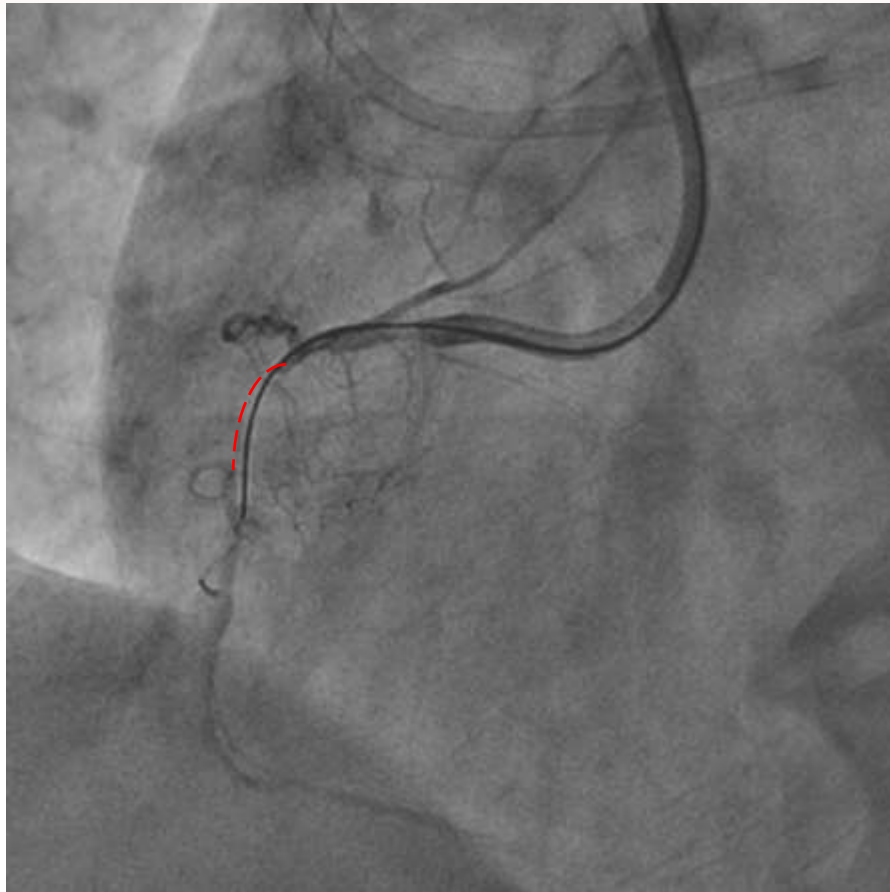
Standard PWT case



Single wire manipulation(Ultimate 3G)

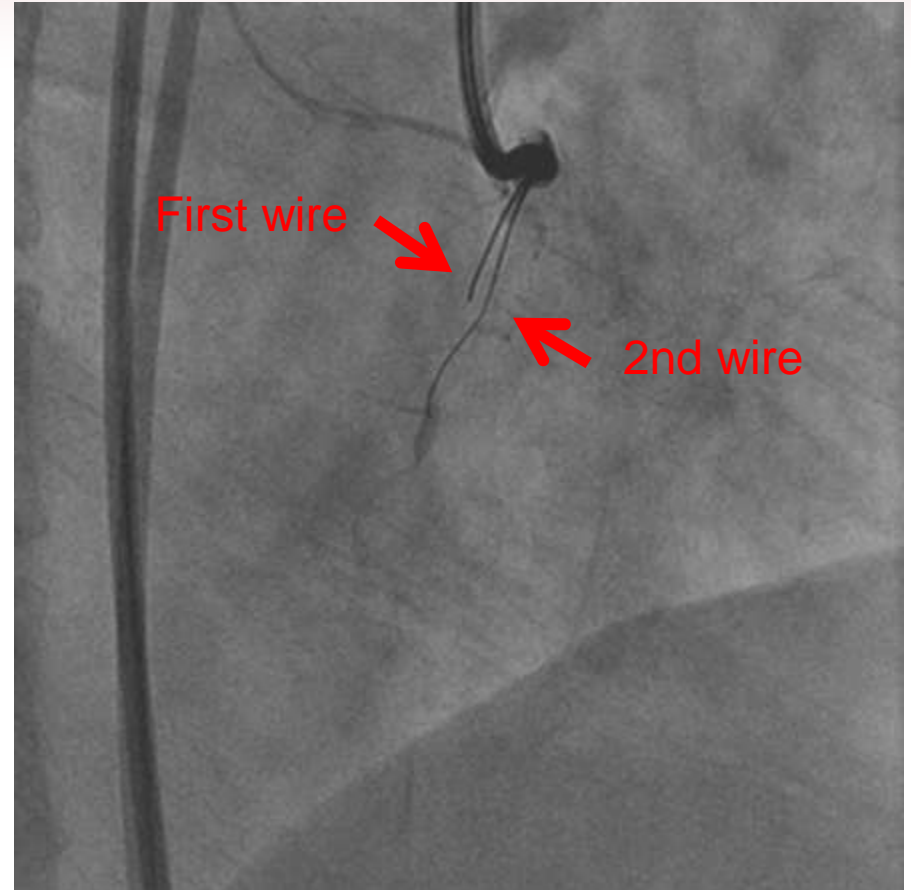
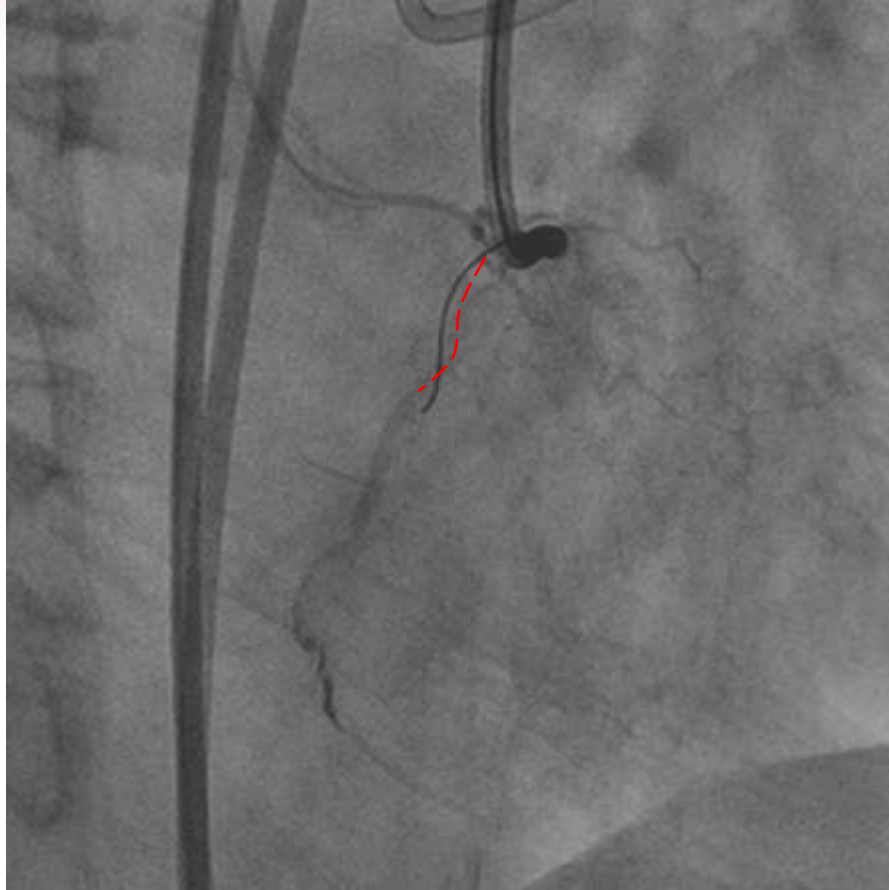


PWT (2nd wire Conquest pro12G)



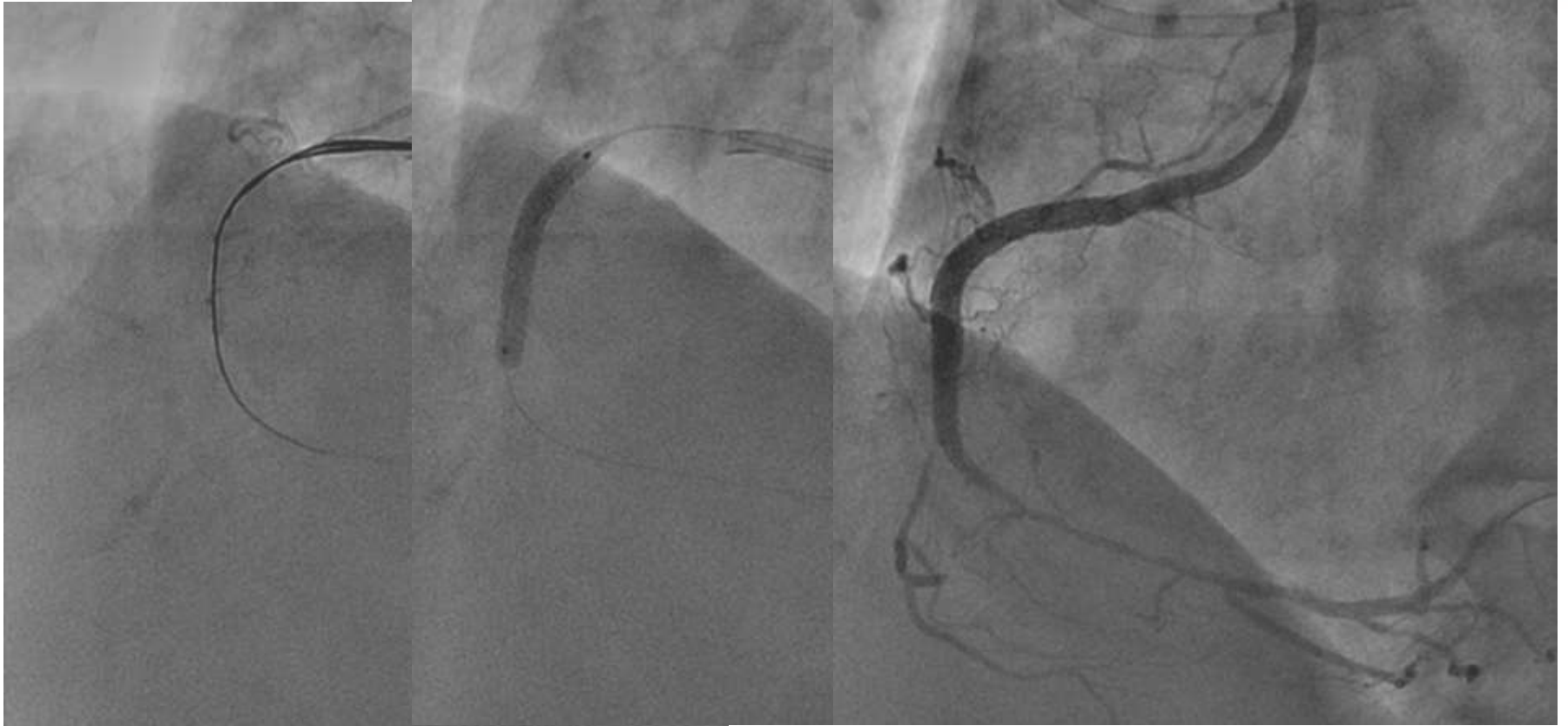
LAO

PWT (2nd wire Conquest pro12G)

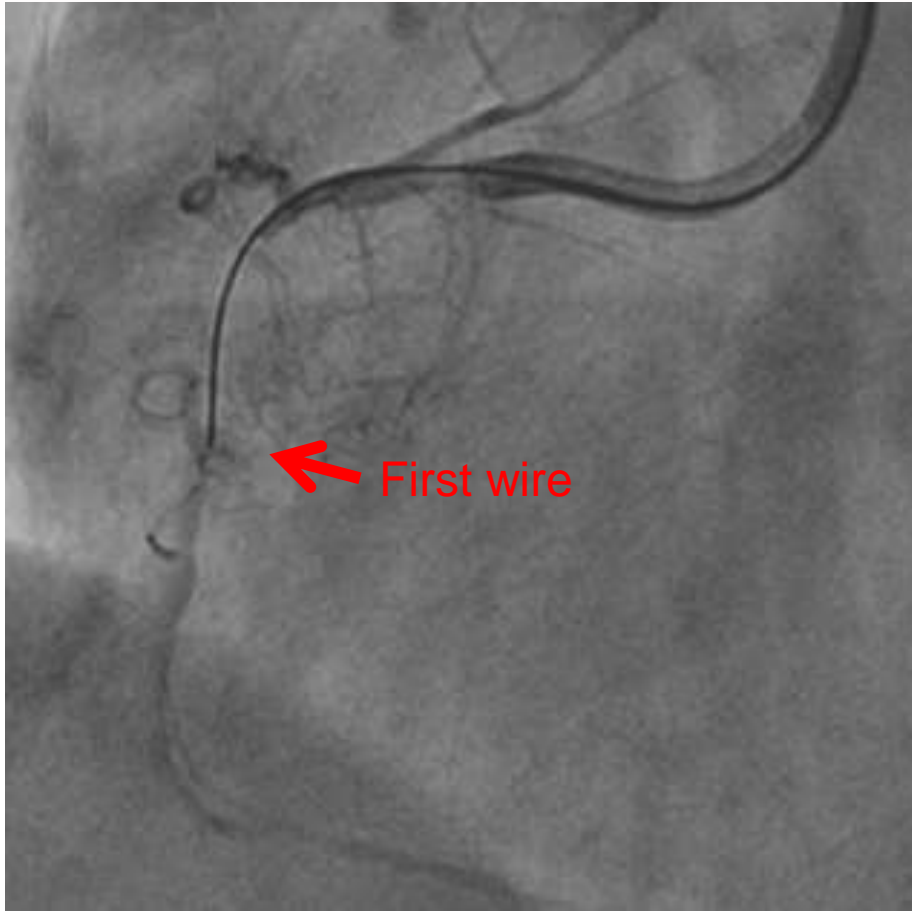


RAO

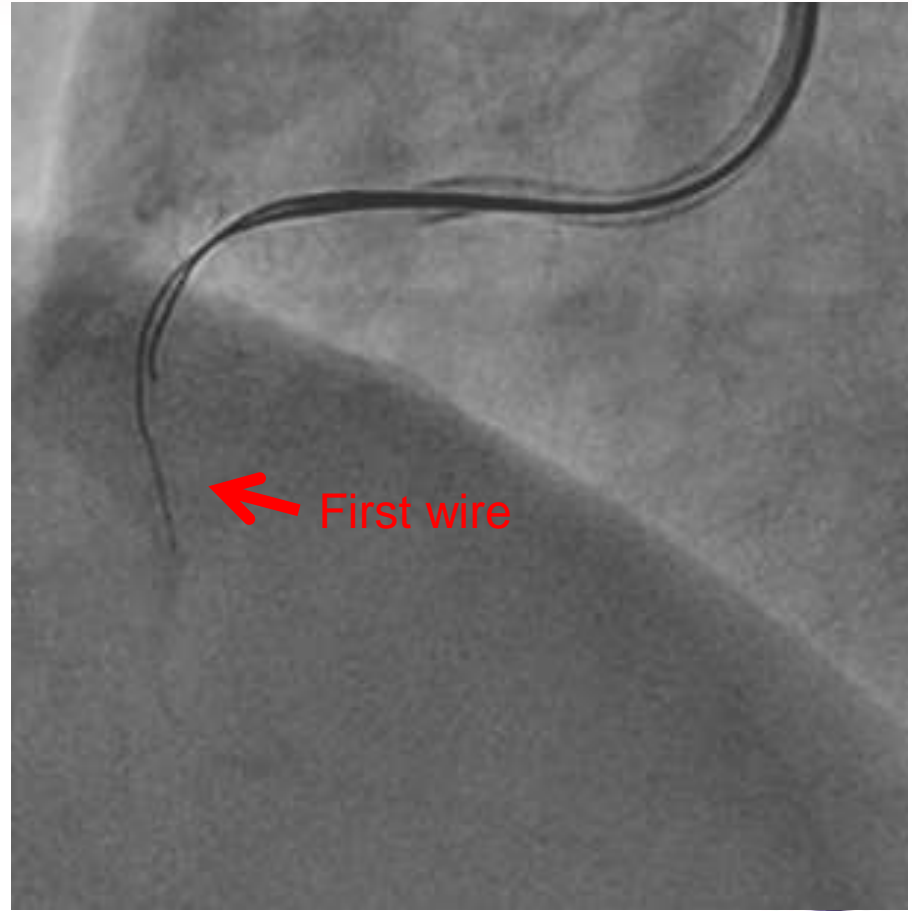
Subsequent Procedure



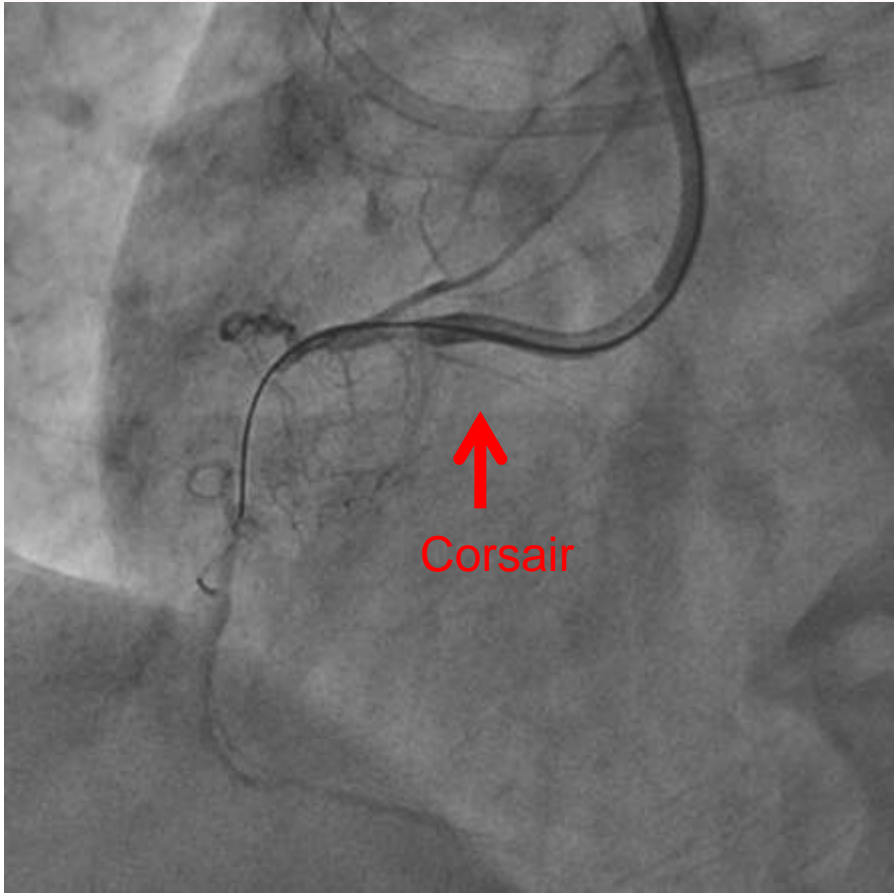
SWM



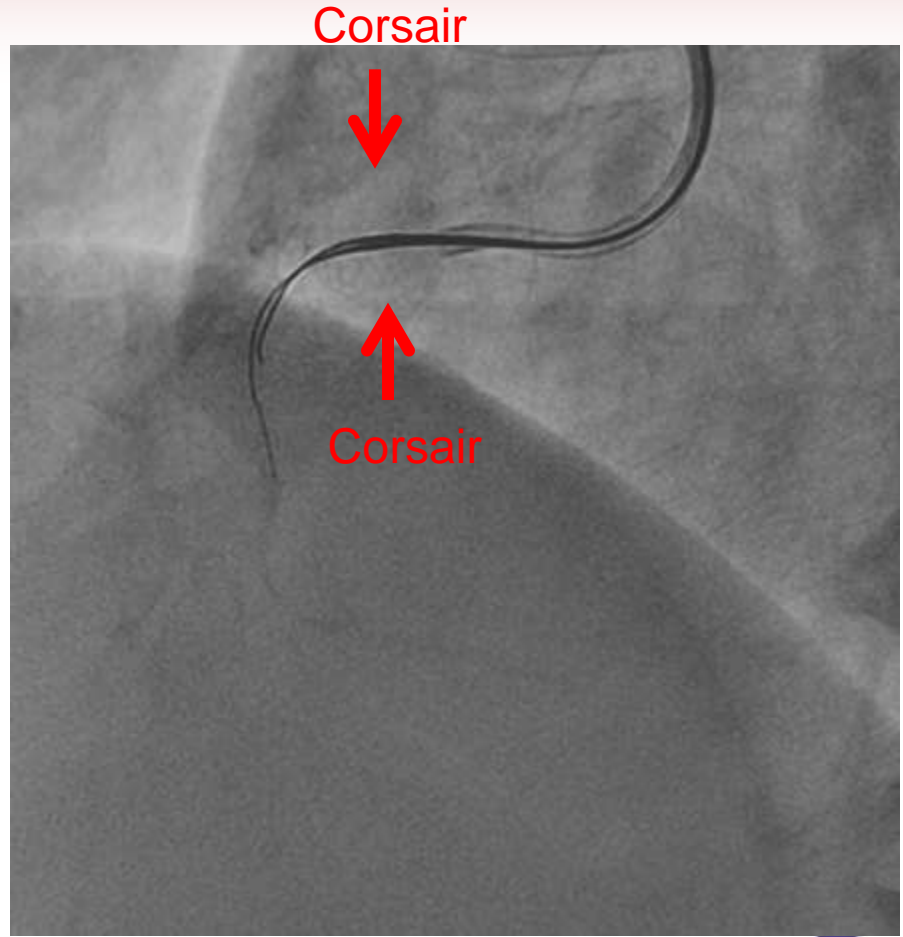
After set up of PWT

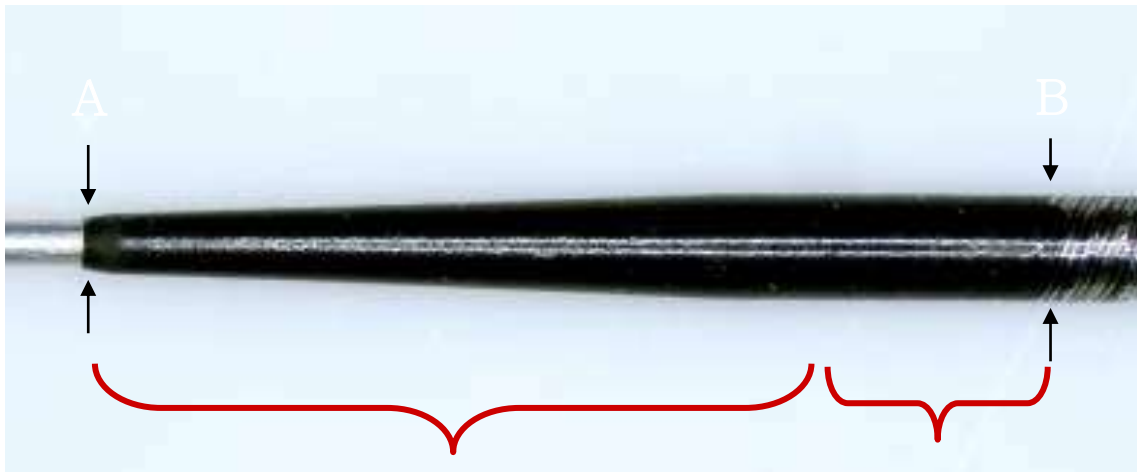


SWM



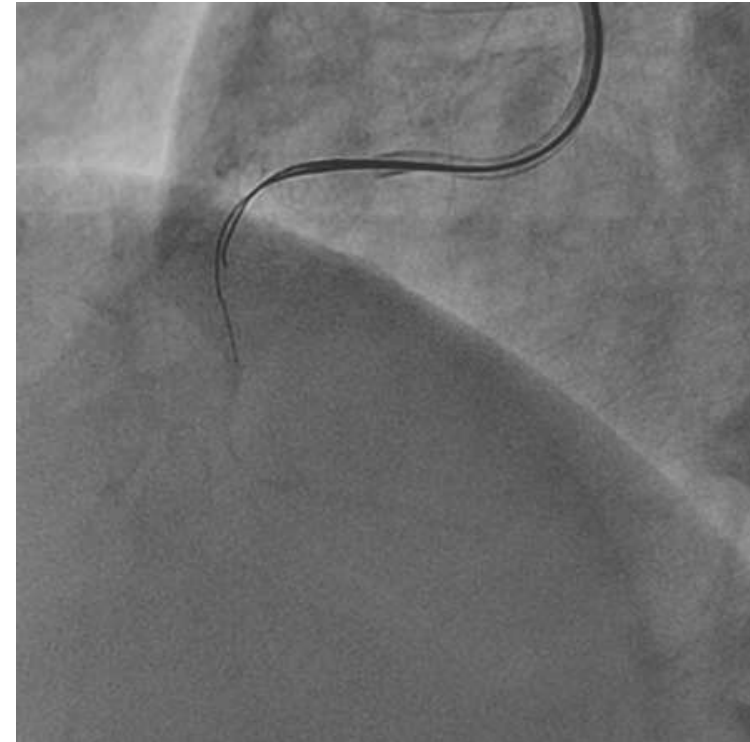
original PWT





5mm
Soft tip
with tungsten powder

0.8mm
Platinum marker coil



A- Tip entry profile

0.42mm (0.016")

B- Shoulder O.D.

0.87mm (0.034")

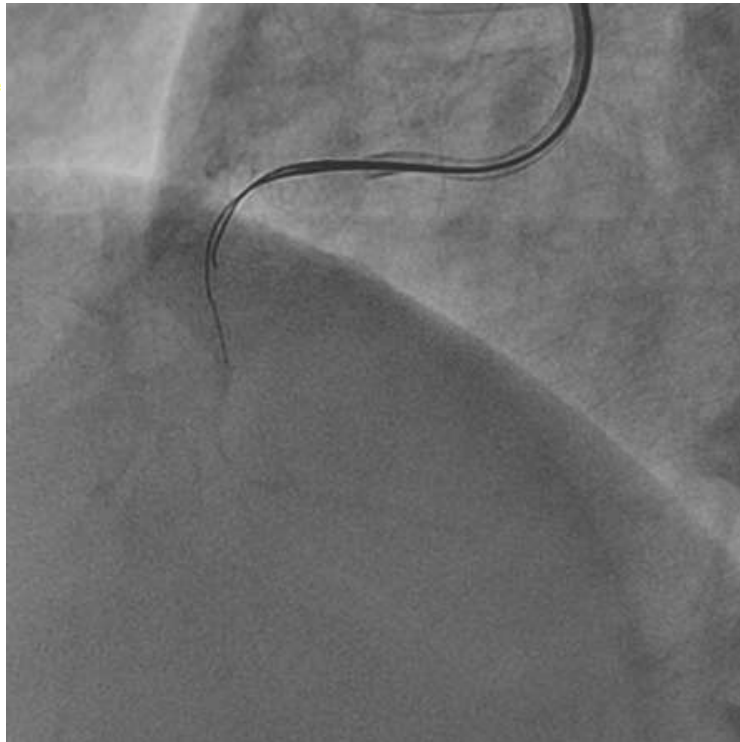
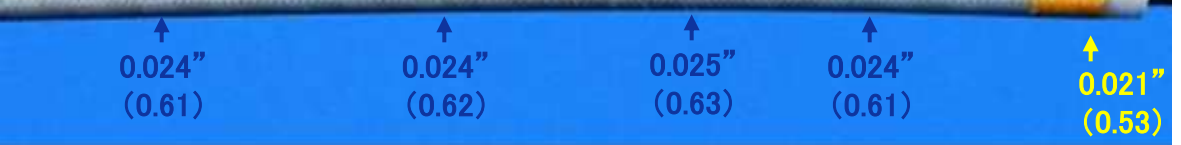


Sortana FX

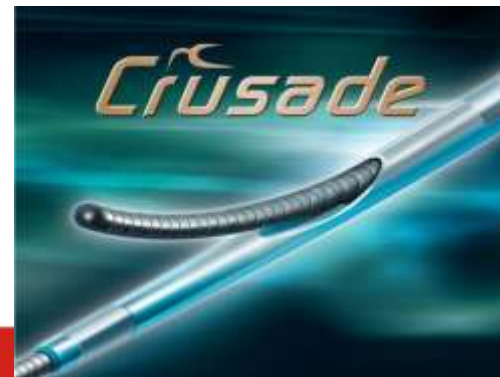
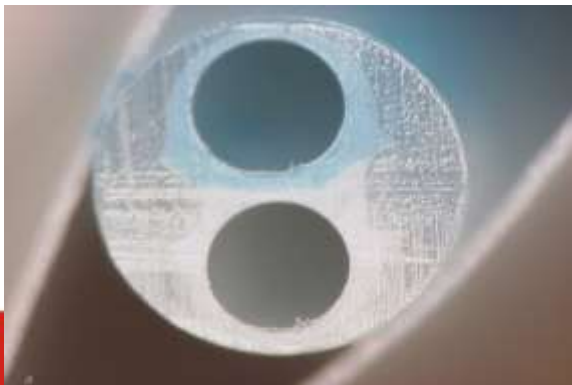
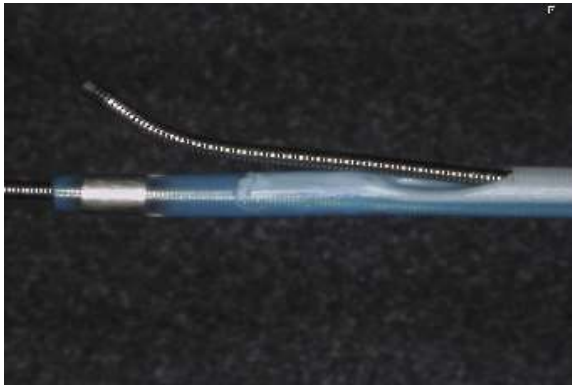
Entry profile



Finecross

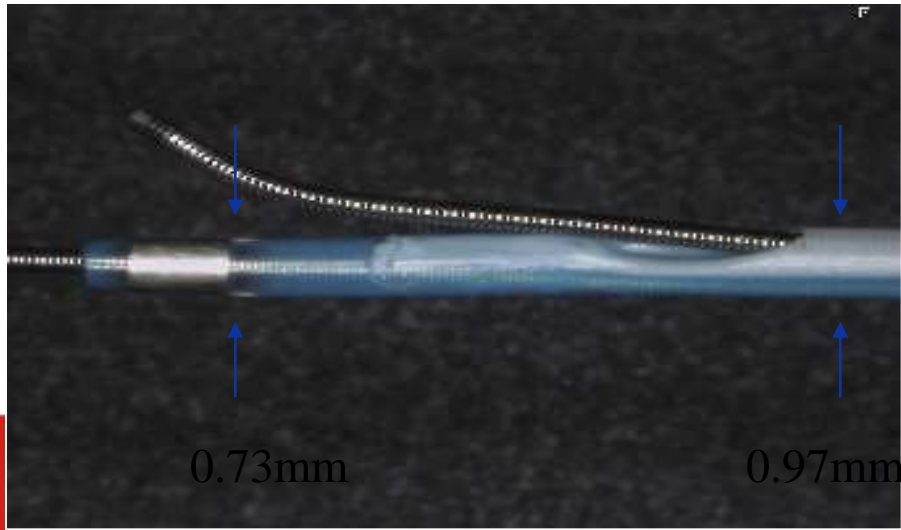
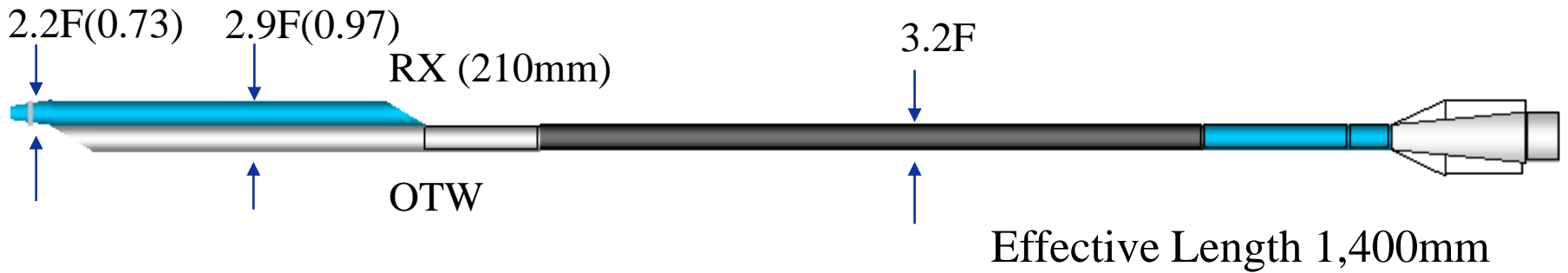


Multifunction Catheter for PWT



Product Configuration

Wire Lumen : 0.014"GW compatible



A- 0.42mm

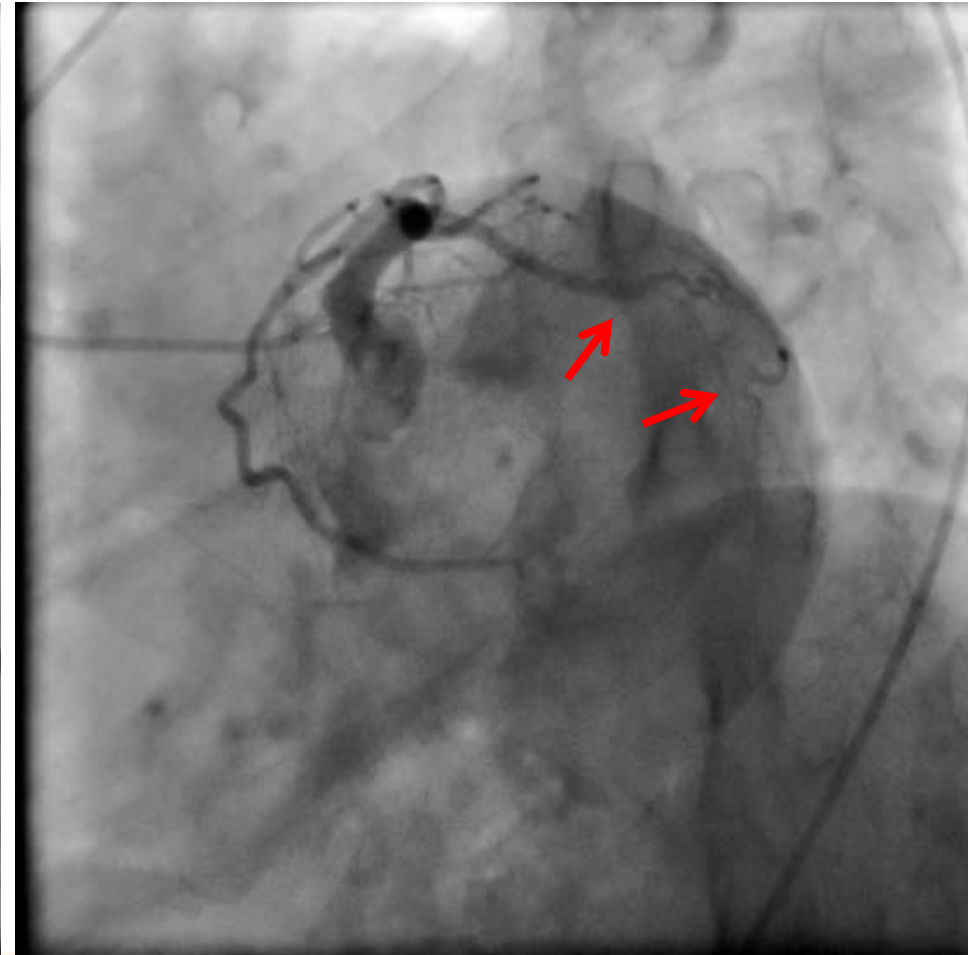
B- 0.87mm

Advantage of Crusade PWT compared with original PWT

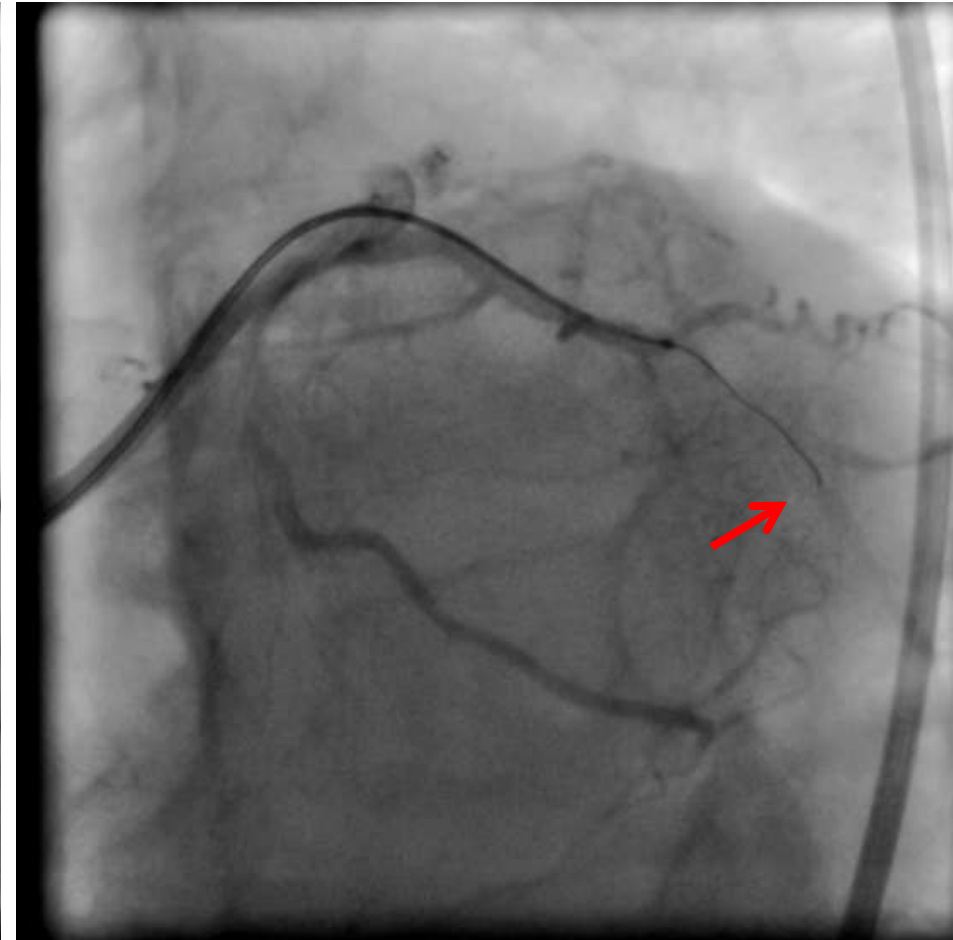
- 1) No need of double microcatheter preparation
- 2) More simple set up for PWT
- 3) Minimum dislodgement of 1st wire position
- 1) Enhanced backup force for 2nd wire manipulation



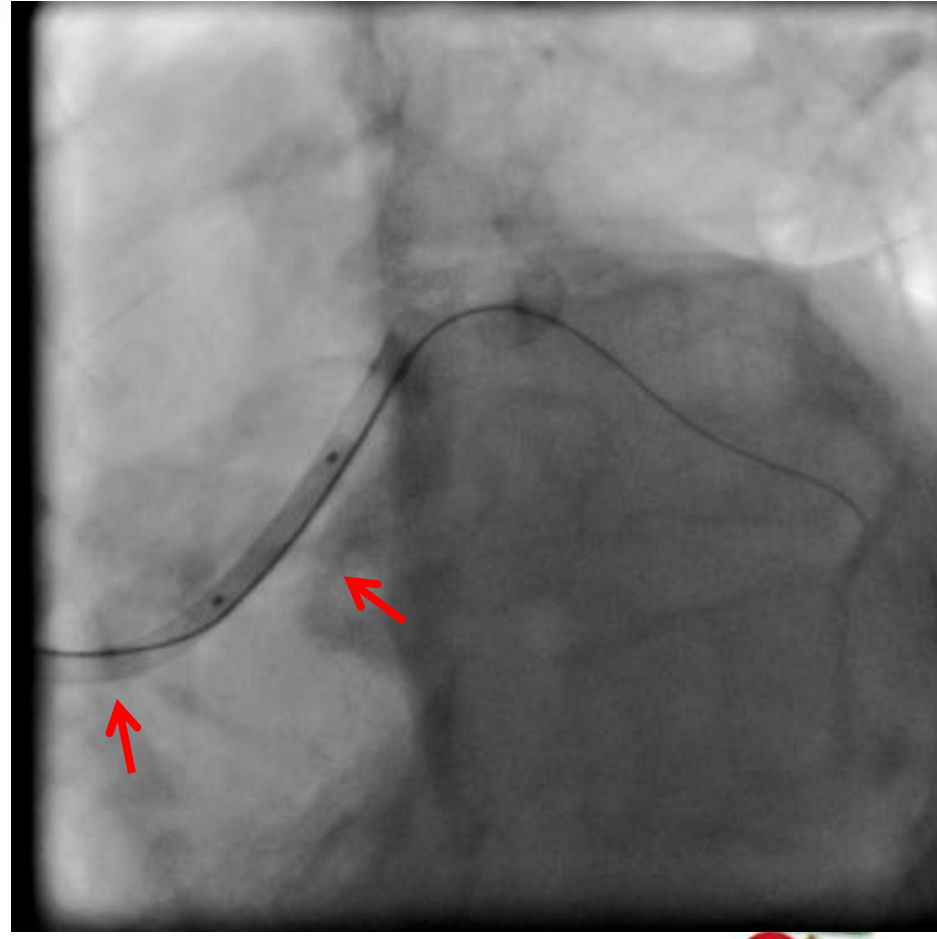
LCX bifurcated CTO case



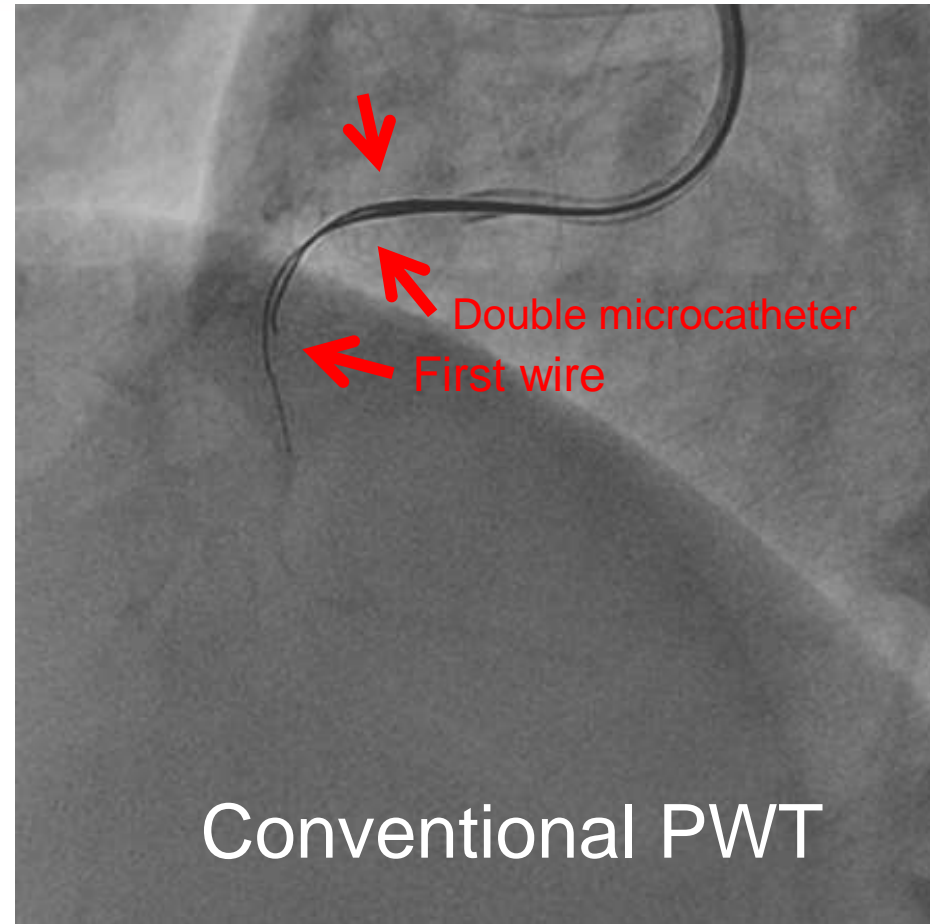
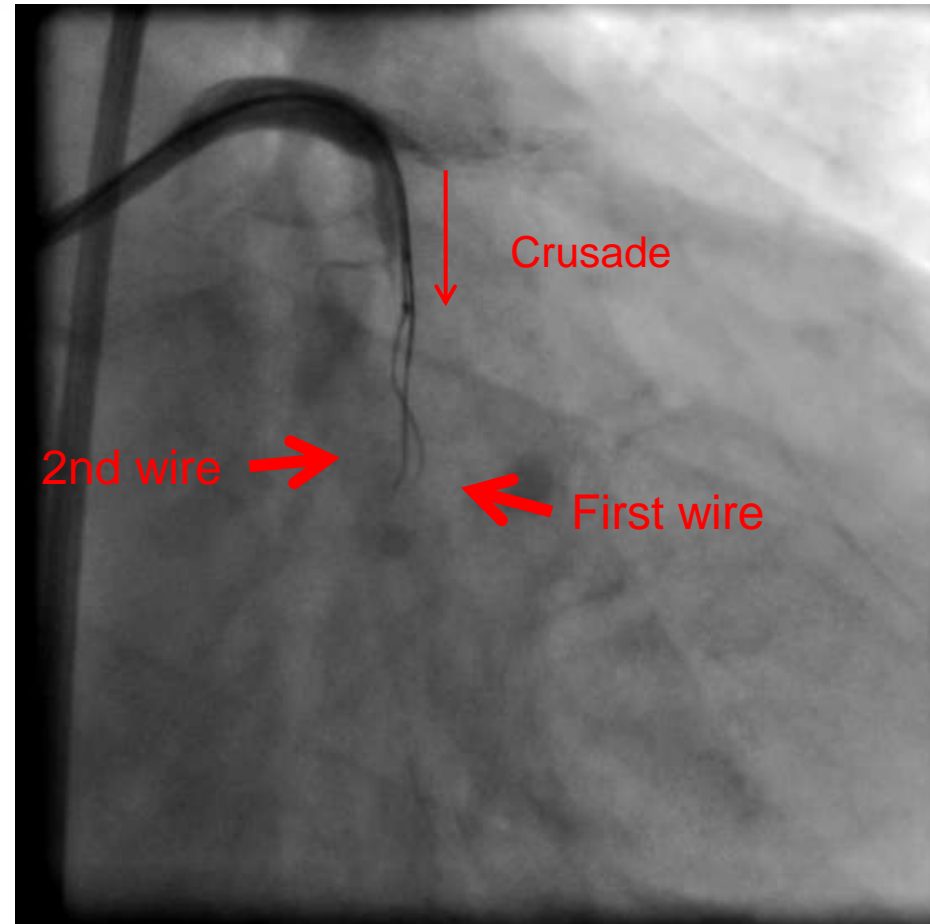
Single wire manipulation (1)



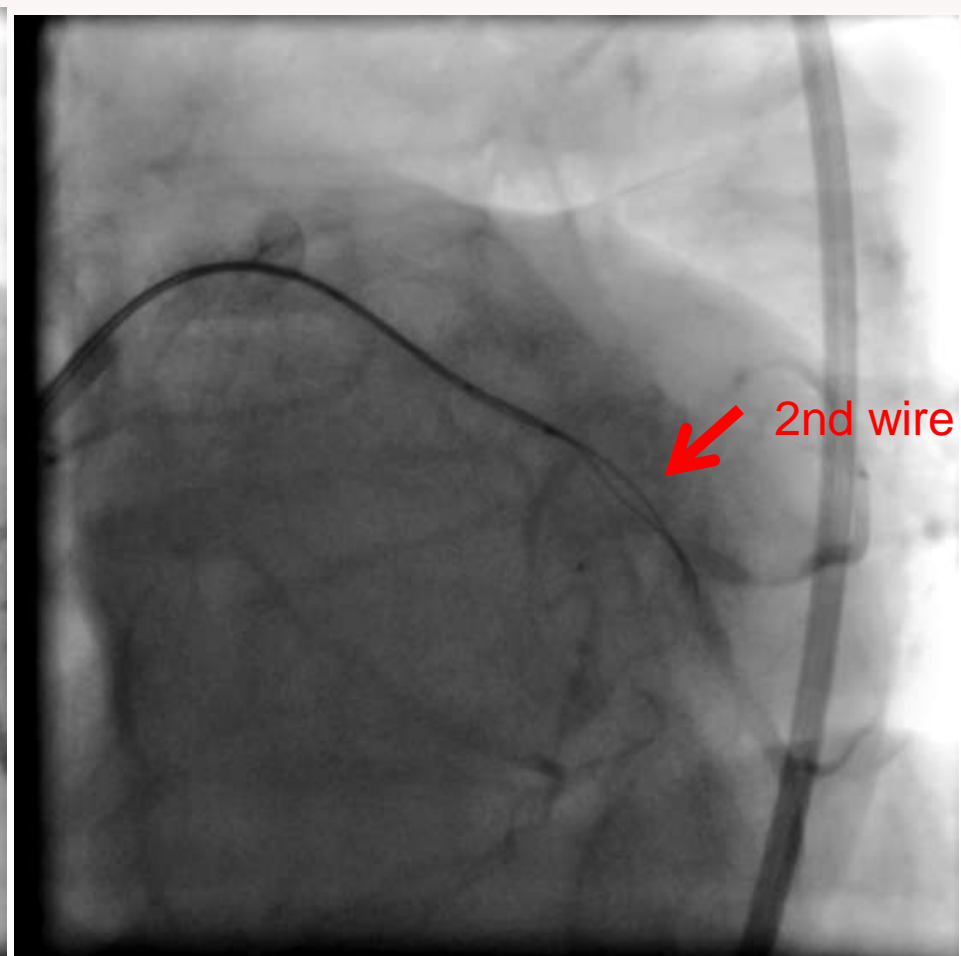
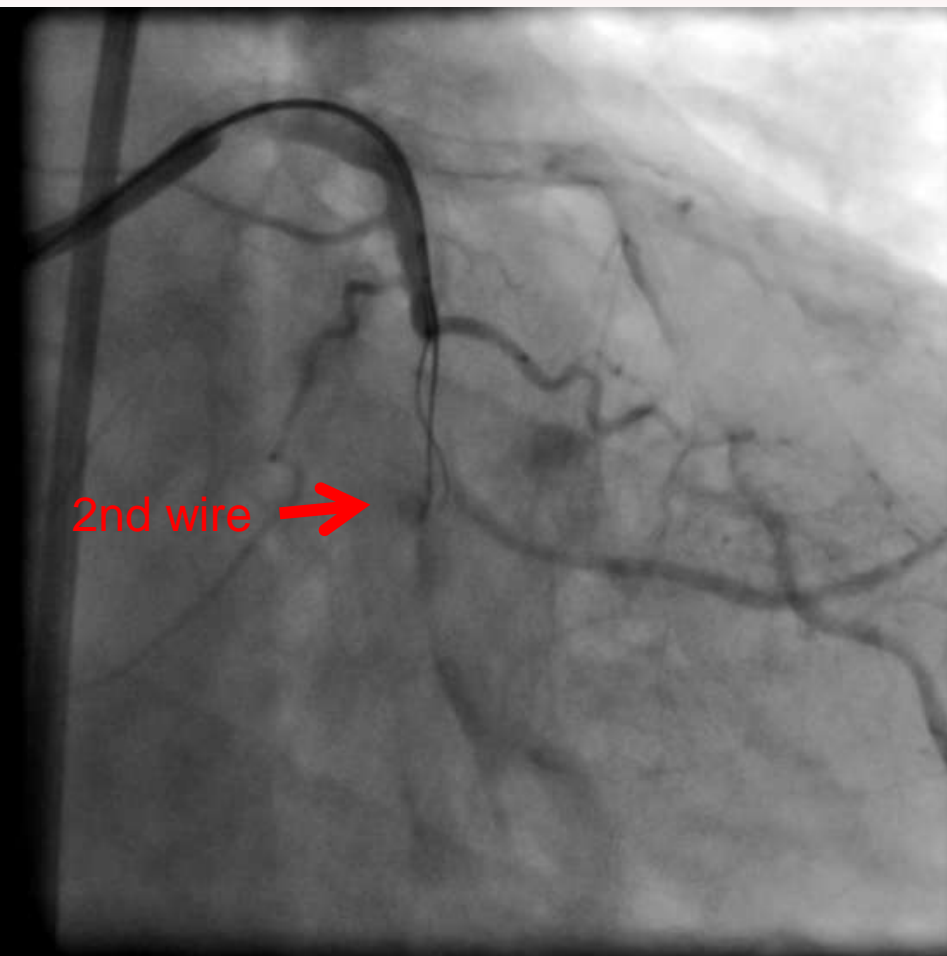
Set up for PWT with Crusade(1)



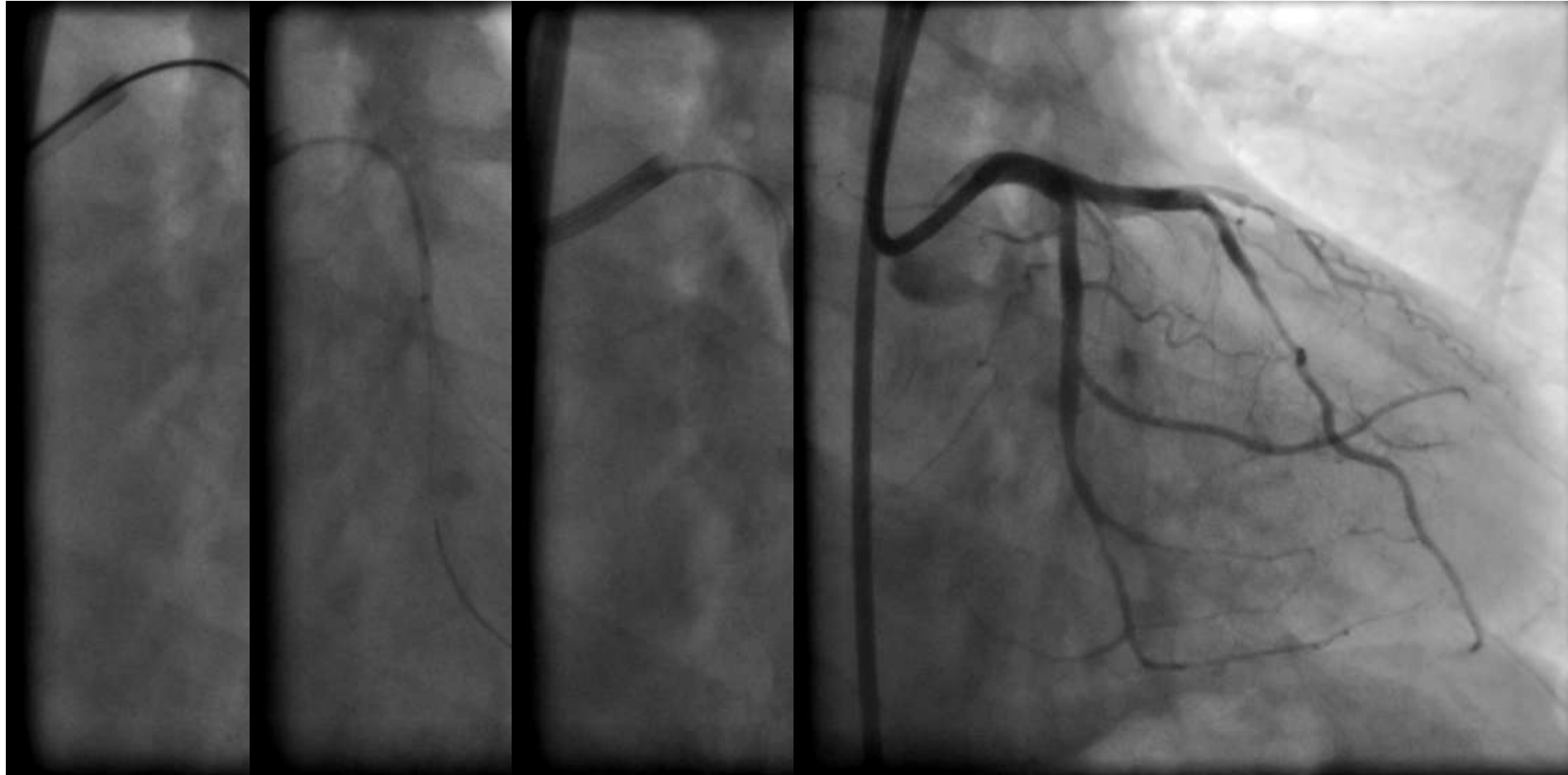
Set up for Crusade PWT



PWT with Crusade catheter



Subsequent Procedure



Personal experience of Crusade PWT

Case No.	Target	Attempt	1 st wire	wire for PWT	wire success
1	LCX mid.	denovo	Gaia 1 st	Gaia 2 nd	Success
2	RCA prox.	re-attempt	Gaia 2 nd	Gaia 2 nd	Success
3	RCA mid.	denovo	XT-A	Gaia 2 nd	Success
4	LAD ostium	denovo	Gaia 2 nd	Confianza Pro12	Failure
5	LAD ostium	denovo	Gaia 2 nd	Confianza Pro12	Success
6	LAD mid.	re-attempt	Gaia 2 nd	Confianza Pro12	Failure
7	RCA mid.	denovo	XT-A	Gaia 2 nd	Success
8	LAD mid.	denovo	Gaia 2 nd	Gaia 2 nd	Success
9	LAD os	re-attempt	Gaia 3 rd	Gaia 3 rd	Success
10	LCX prox.	denovo	XT-A	Gaia 2 nd	Success
11	RCA prox.	re-attempt	Gaia 2 nd	Confianza Pro12	Success
12	LAD prox.	denovo	Gaia 2 nd	Gaia 3 rd	Success
13	LAD mid.	reattempt	Gaia 1 st	Gaia 3 rd	Success

Success rate of PWT 84.6%(11/13)



Current 2nd Antegrade Guidewire Selection Sequence for Parallel Wire Technique

Final G.W. for SWM

G.W. For PWT

XT-A/Gaia 1st

→

Gaia 2nd

↓

Gaia 2nd /3rd

→

Gaia 3rd

↓

Conquest Pro 9/12G

→

Conquest Pro 12G



Thank you for your attention!

