IVUS Guided Re-Wiring in CTO PCI

Hakujikai Memorial Hospital
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Step by Step Approach

Antegraded Approach with Single Wire

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Parallel Wire Technique

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Retrograde Approach

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IVUS Guided Wiring
Case
IVUS Guided Wiring
Successful Wiring

Confienza Pro 8-20
Where should the 2\textsuperscript{nd} wire run?

- Re-Entry: X
- Fresh Start: O

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Case
RAO view
IVUS Guided Wiring

RV branch

LAO
3 Dimensional Orientation

- Side Branch
- Side Hall of GC
- NaviFocus IVUS
- 2nd GW
- IVUS Catheter Bias
3 Dimensional Orientation

- Side Branch
- Side Hall of GC
- NaviFocus IVUS
- 2nd GW
- IVUS Catheter Bias
Side Hall

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3 Dimensional Orientation

- Side Branch
- Side Hall of GC
- NaviFocus IVUS
- 2nd GW
- IVUS Catheter Bias
Navi Focus

GW

Transducer

1mm

センサー位置 9mm
3 Dimensional Orientation

- Side Branch
- Side Hall of GC
- NaviFocus IVUS
- 2nd GW
- IVUS Catheter Bias
Case

Rotational Angiography

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RAO 20

LAO 70

IVUS

GW

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3 Dimensional Orientation

- Side Branch
- Side Hall of GC
- NaviFocus IVUS
- 2nd GW
- IVUS Catheter Bias
Parallel Wire Technique
IVUS Guided Wiring
IVUS
Catheter
Bias
IVUS Guided Wiring

LAO

Right
IVUS Guided Wiring
GW Crossing
Final
Summary

1. IVUS guided re-wiring is the last resort in CTO PCI.

2. This technique should be done before false lumen is enlarged.

3. The 2\textsuperscript{nd} wire should go through intima from begin to end.

4. Three dimensional recognition is important in this strategy.
Thank You for Attention!
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