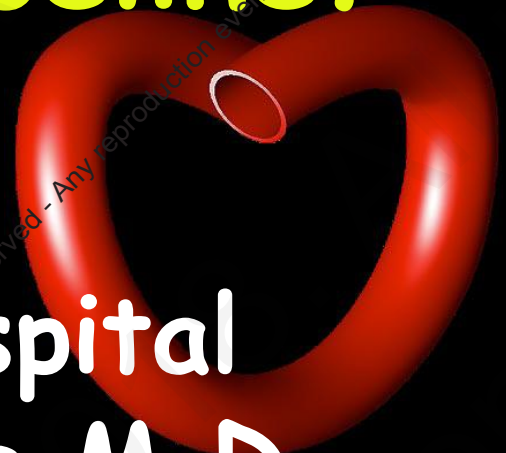


Has Antegrade Approach Reached a Plateau? What's up in the Pipeline?

Hakujikai Memorial Hospital
Yasushi Asakura M.D.





Step by Step Approach

**Antegrade Approach
with Single Wire**



Parallel Wire Technique



Retrograde Approach



**IVUS Guided Wiring
Antegrade Dissection Re-entry**



Step by Step Approach

**Antegrade Approach
with Single Wire**



Parallel Wire Technique



Retrograde Approach



**IVUS Guided Wiring
Antegrade Dissection Re-entry**

Basic structure



Line up options allow the operator to choose the appropriate wire for a variety of situations

ASAHI Gaia First

Diameter : 0.010 - 0.014"
Tip load : 1.7gf

ASAHI Gaia Second

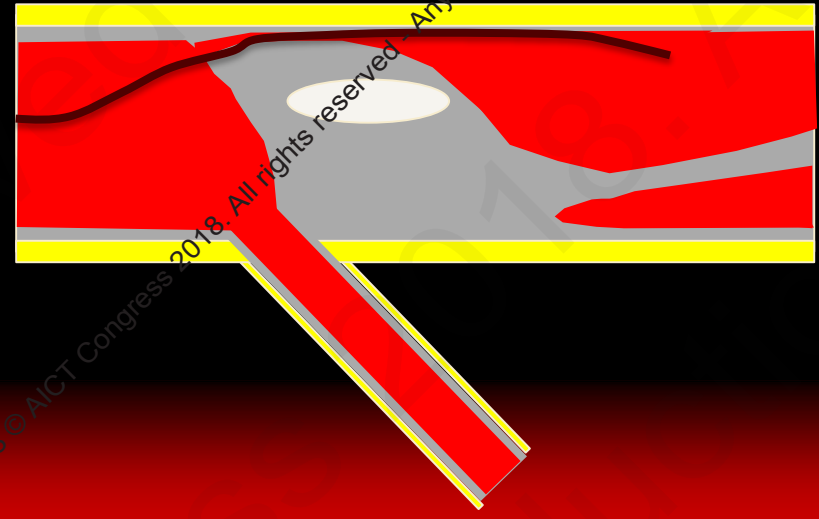
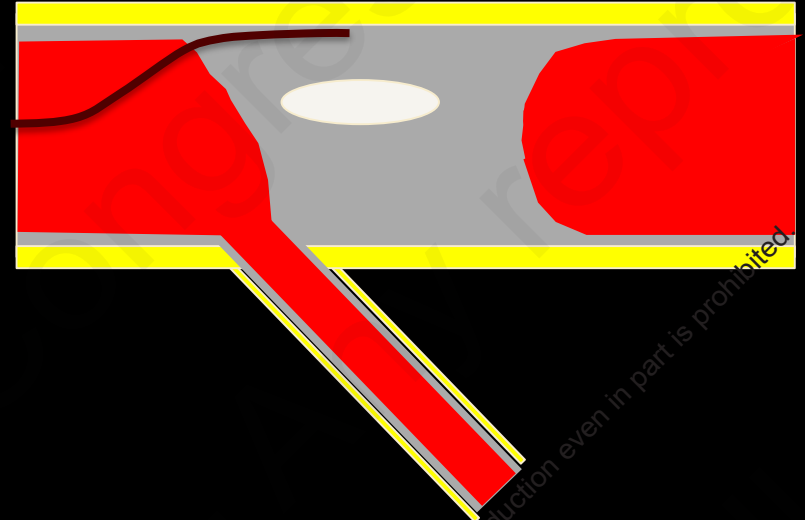
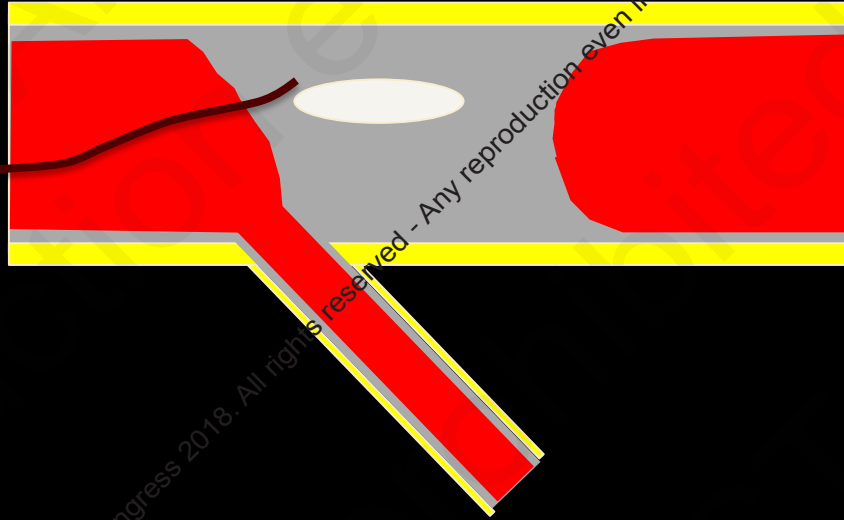
Diameter : 0.011 - 0.014"
Tip load : 3.5gf

ASAHI Gaia Third

Diameter : 0.012 - 0.014"
Tip load : 4.5gf

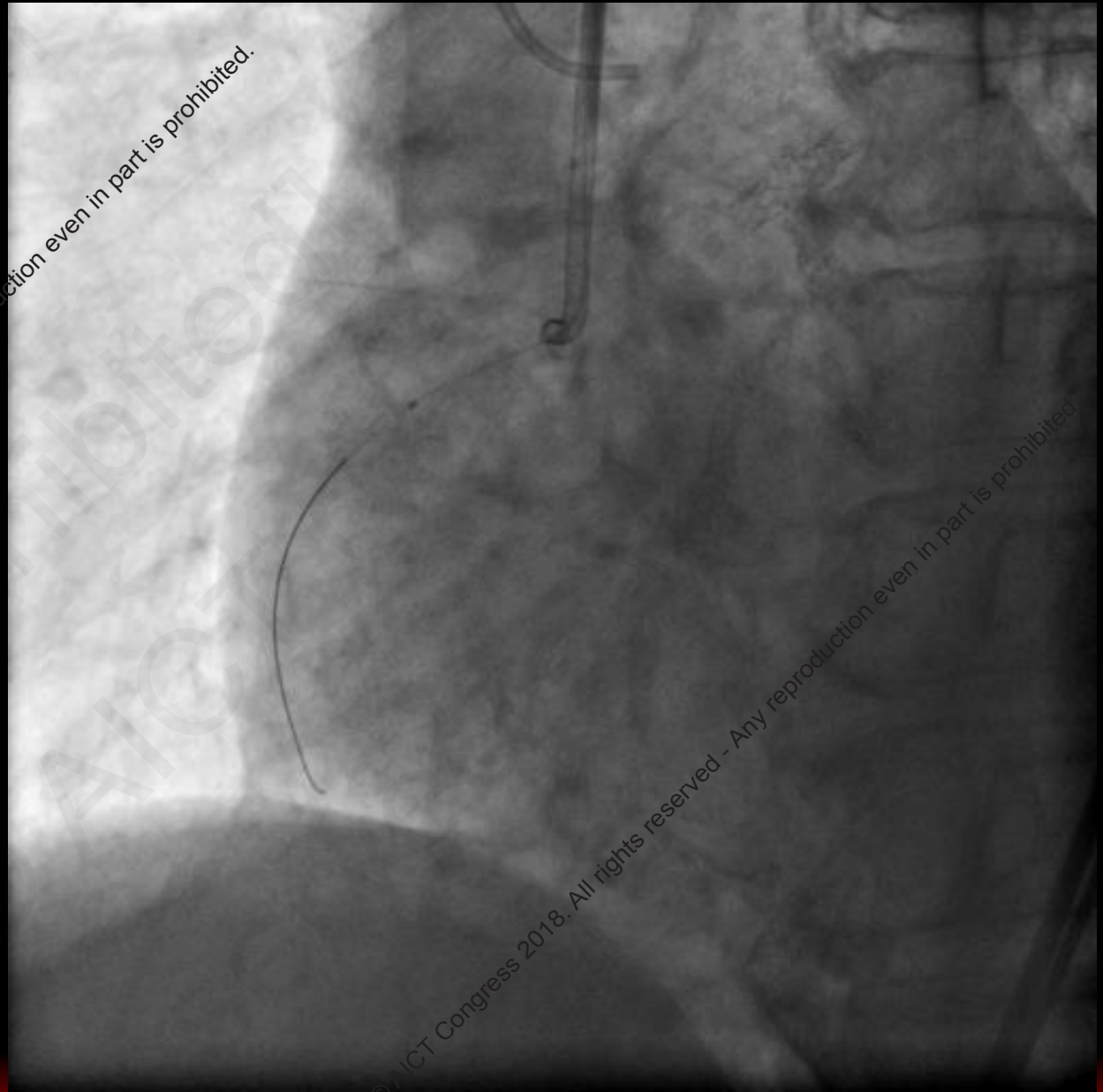


Failed Antegrade Wiring



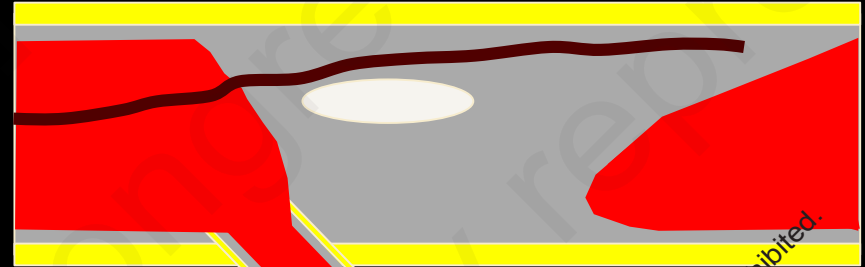
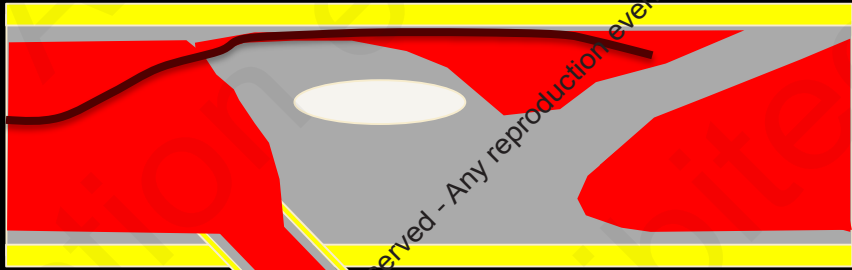


Failed Antegrade Approach





Can we distinguish?



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**Has Antegrade Approach
Reached a Plateau?**



No!!

Some Image Modality



Step by Step Approach

**Antegrade Approach
with Single Wire**



Parallel Wire Technique



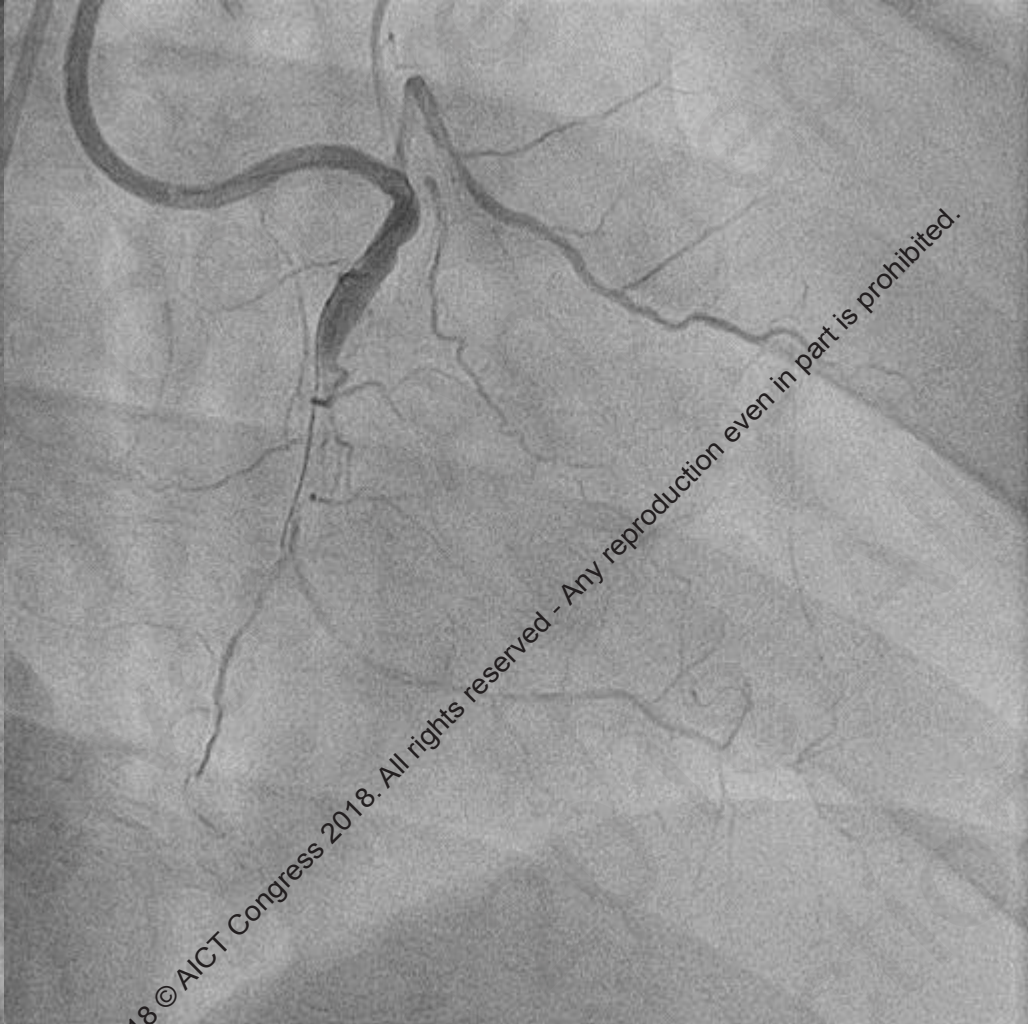
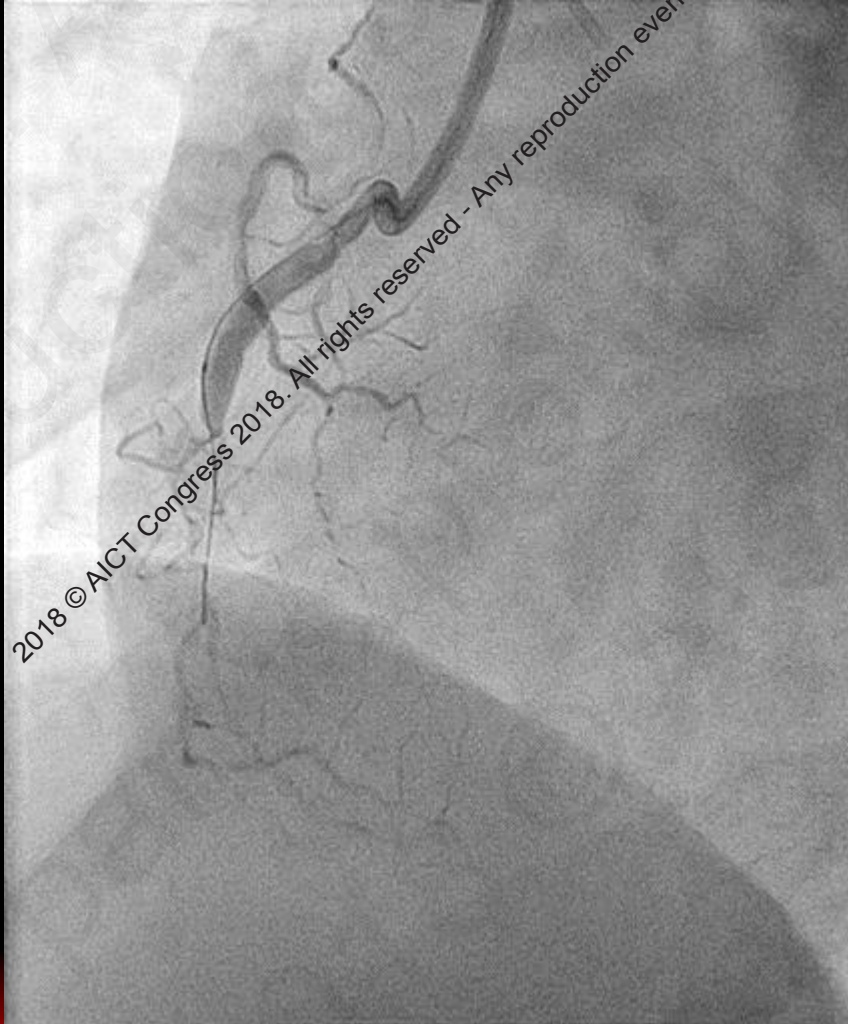
Retrograde Approach



**IVUS Guided Wiring
Antegrade Dissection Re-entry**

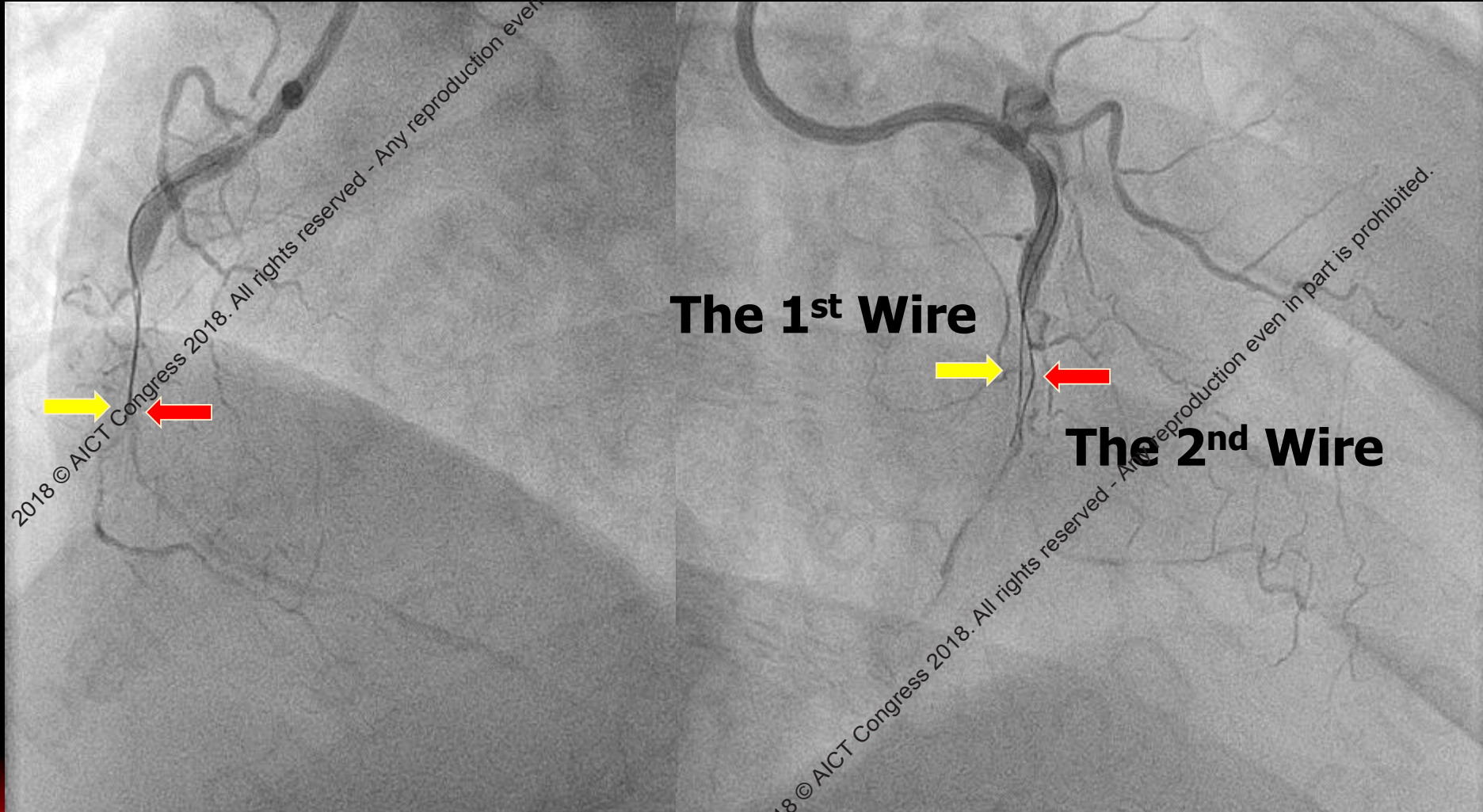


Case



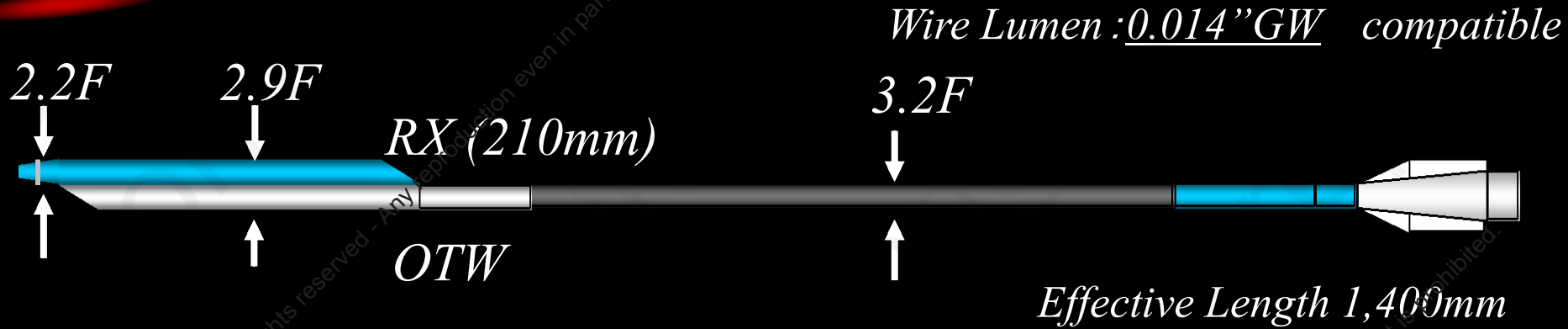


Parallel Wire Technique

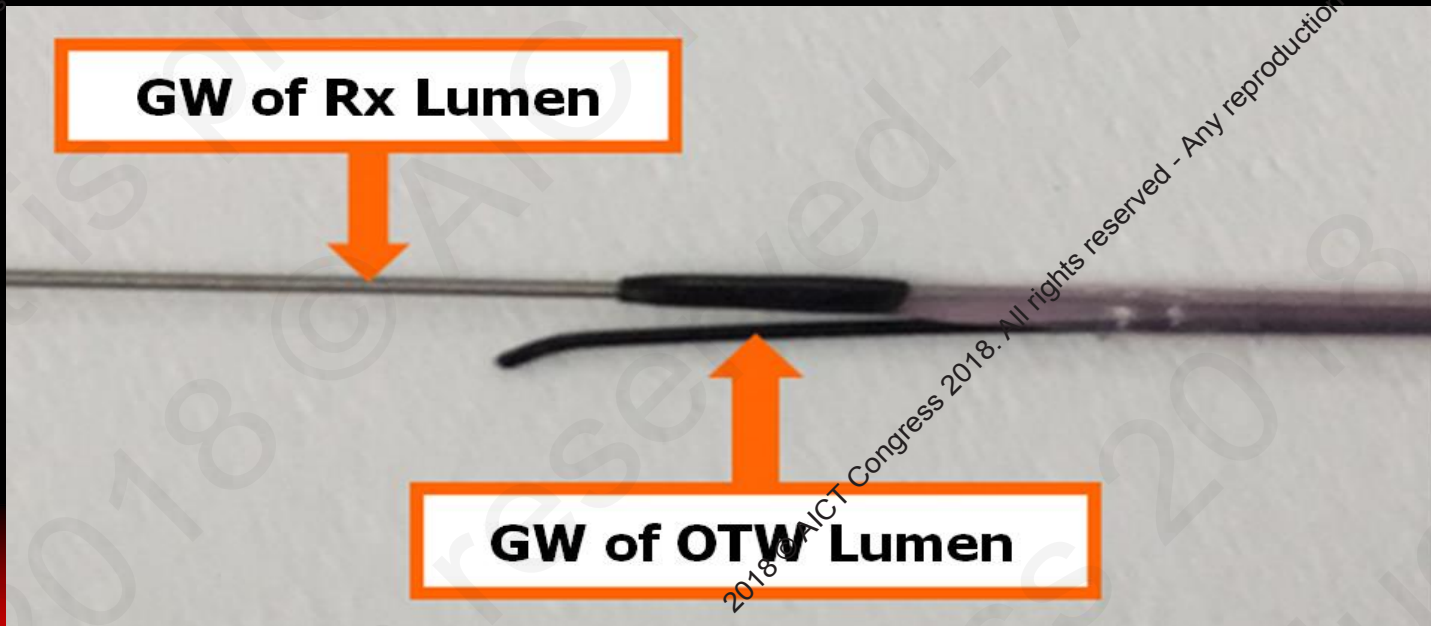




Crusade



SASUKE





Step by Step Approach

**Antegrade Approach
with Single Wire**



Parallel Wire Technique



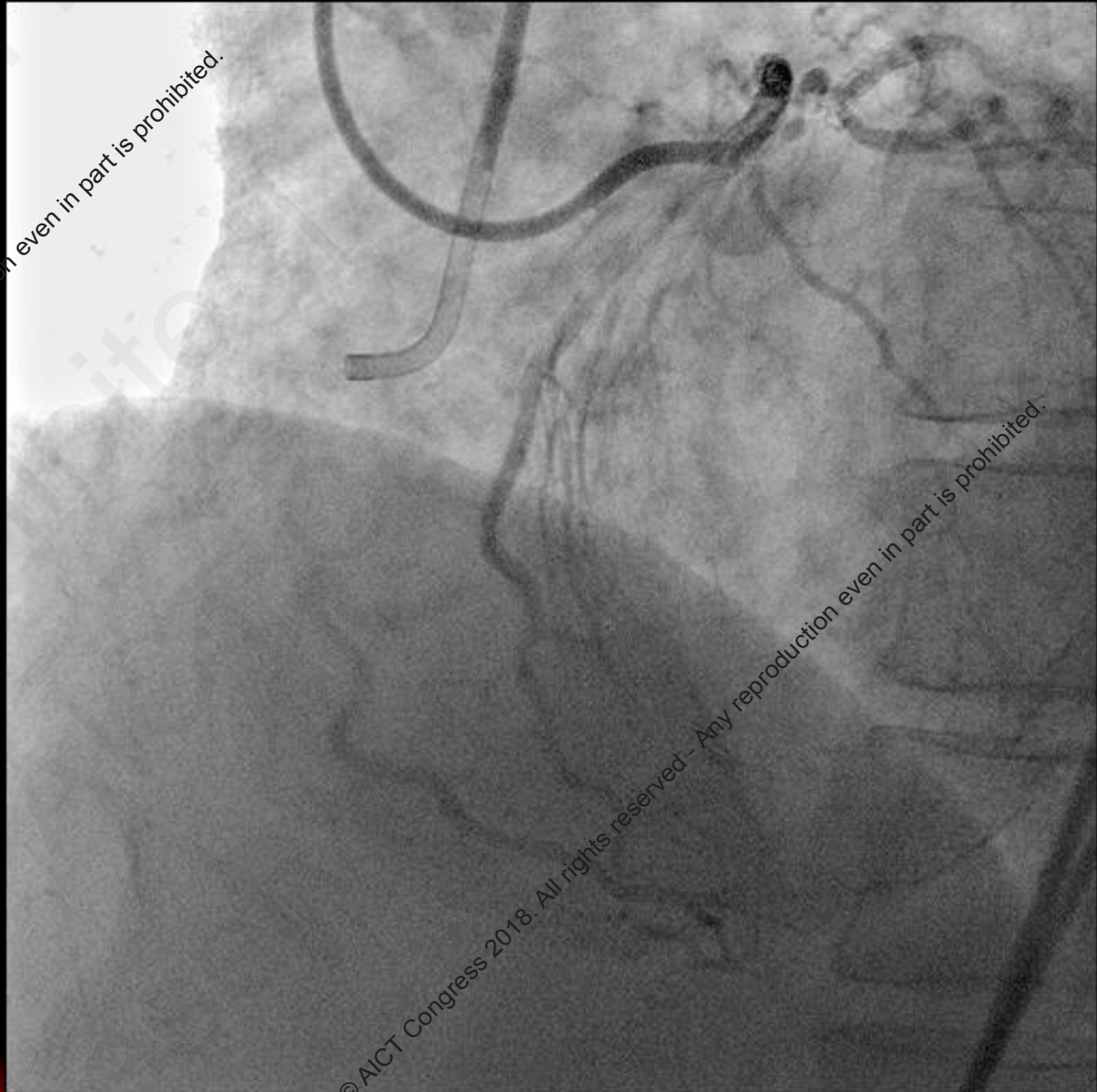
Retrograde Approach



IVUS Guided Wiring

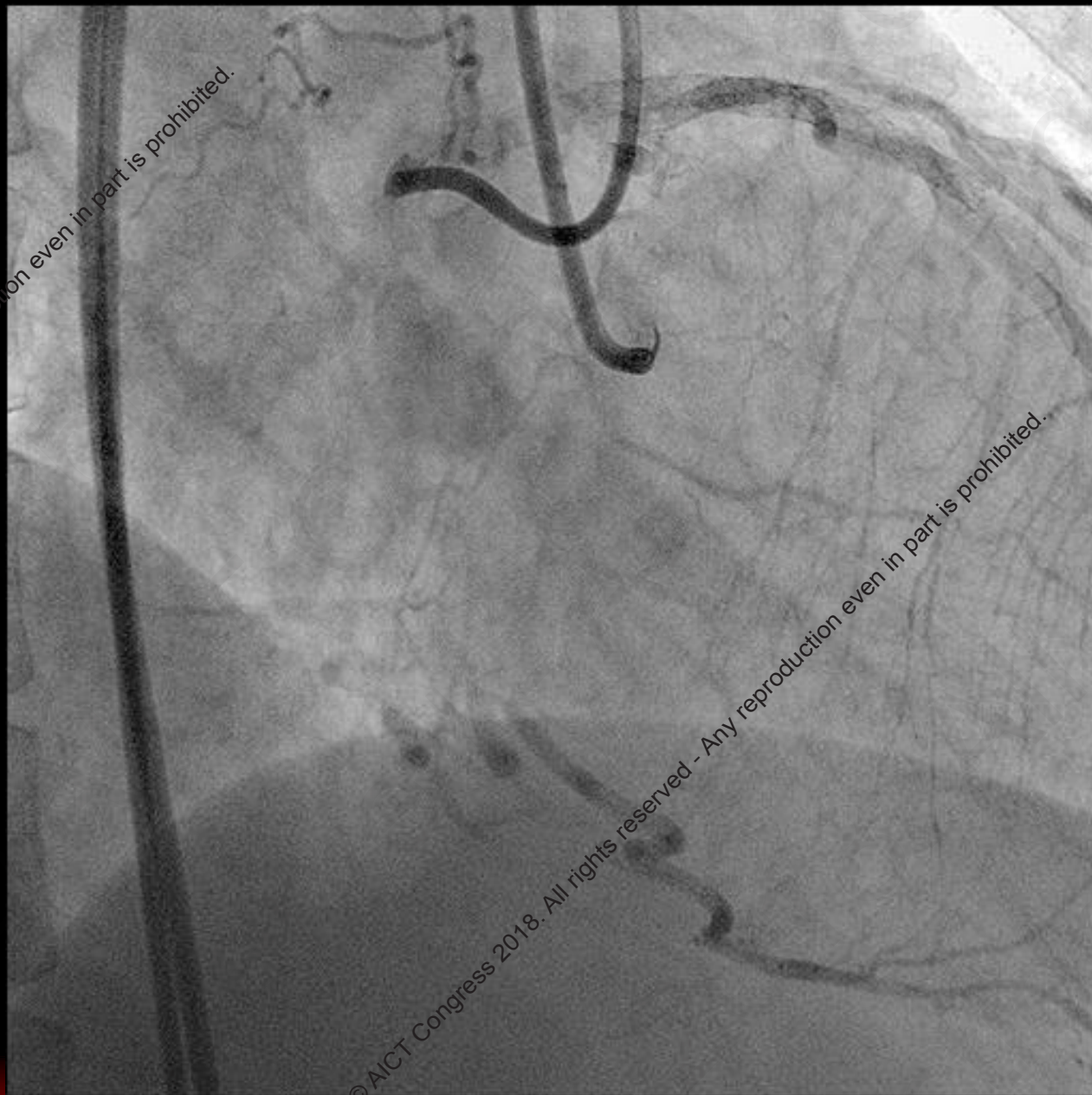
Antegrade Dissection Re-entry

Case



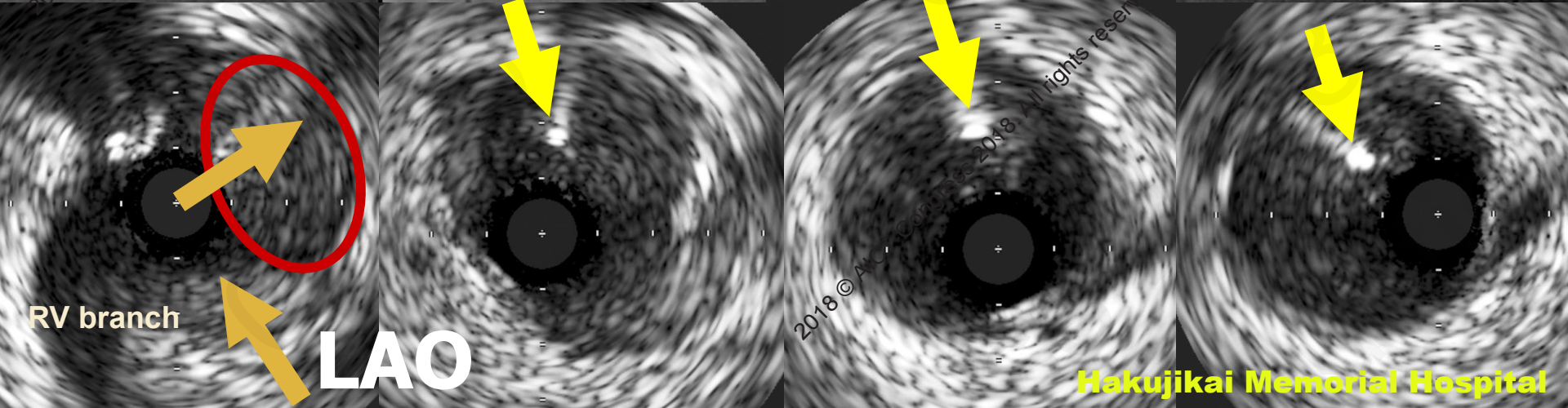
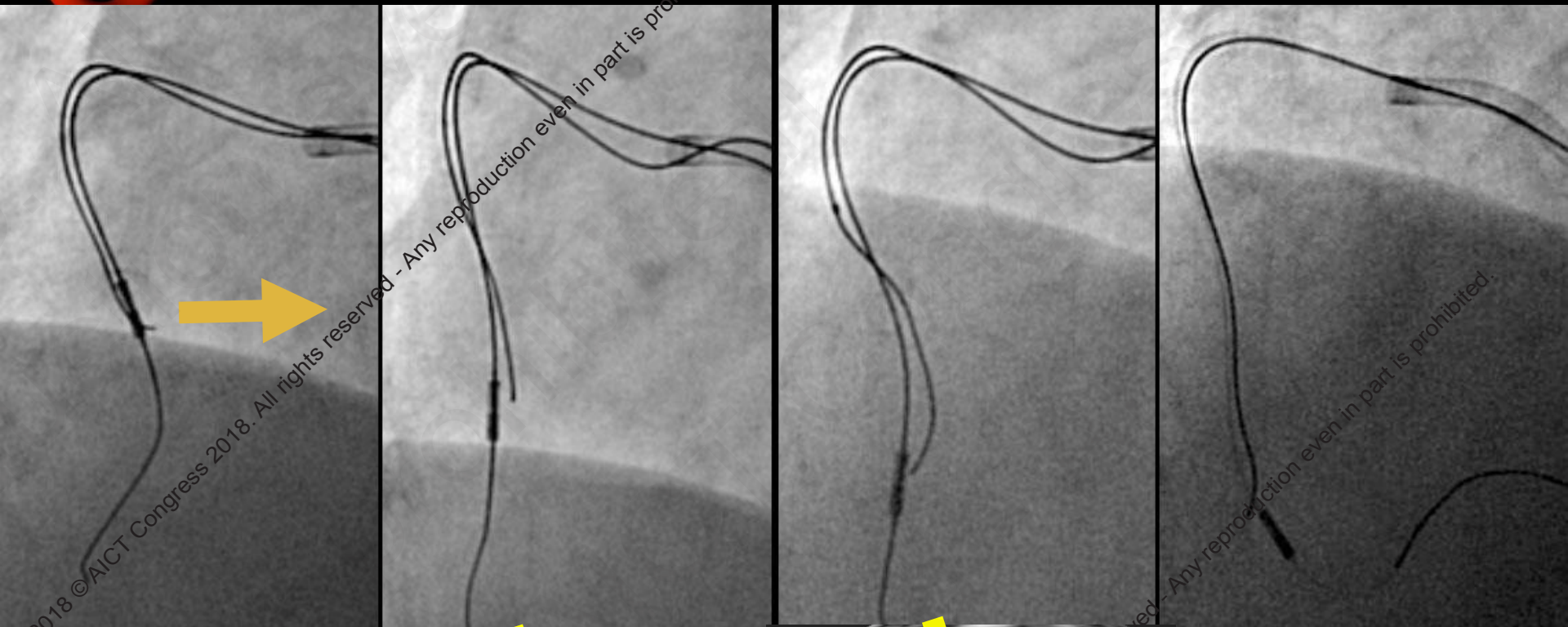


RAO view



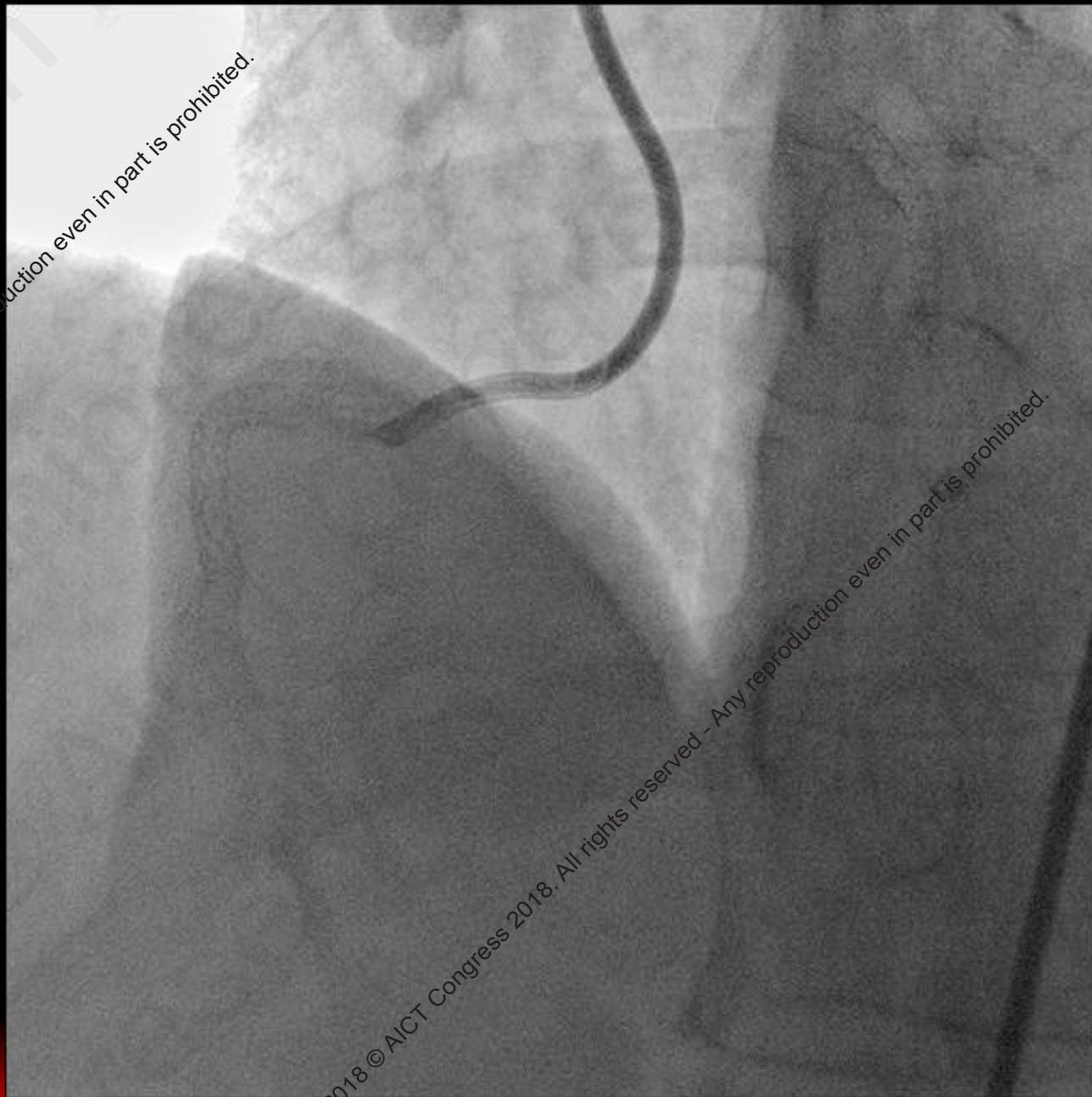


IVUS Guided Wiring





Final



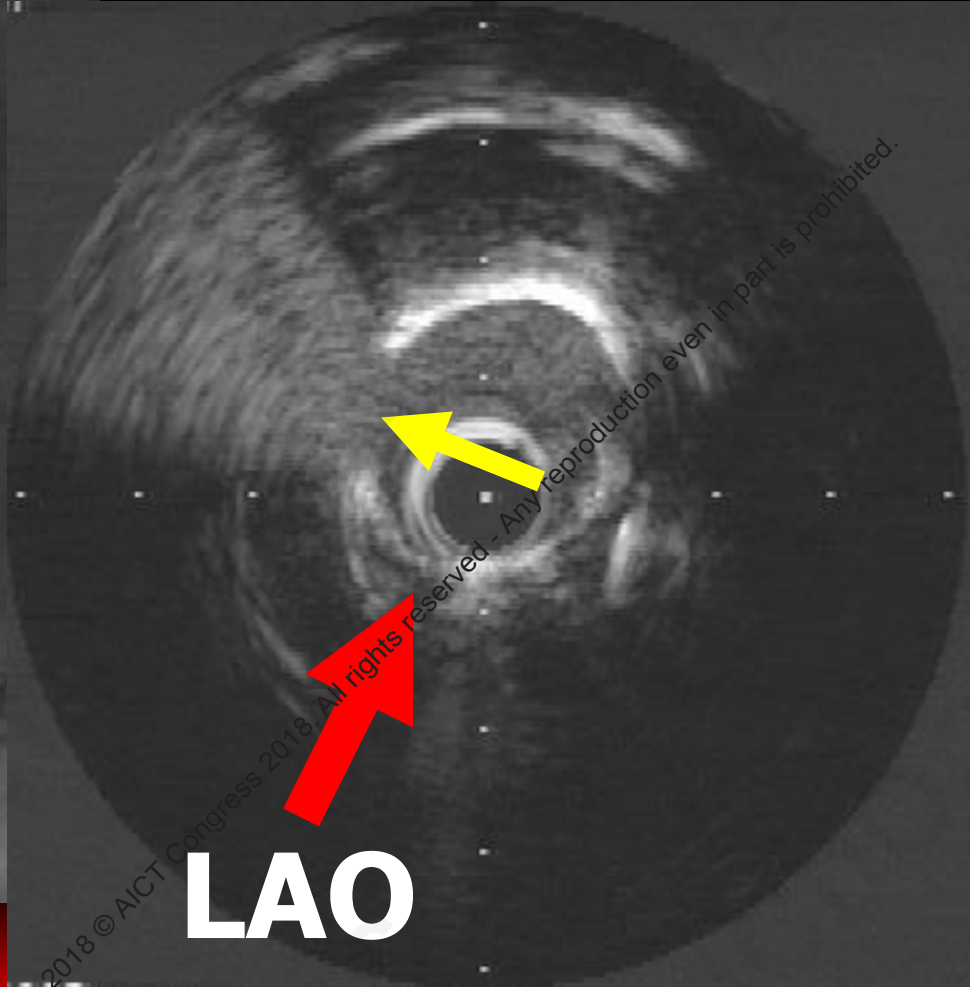
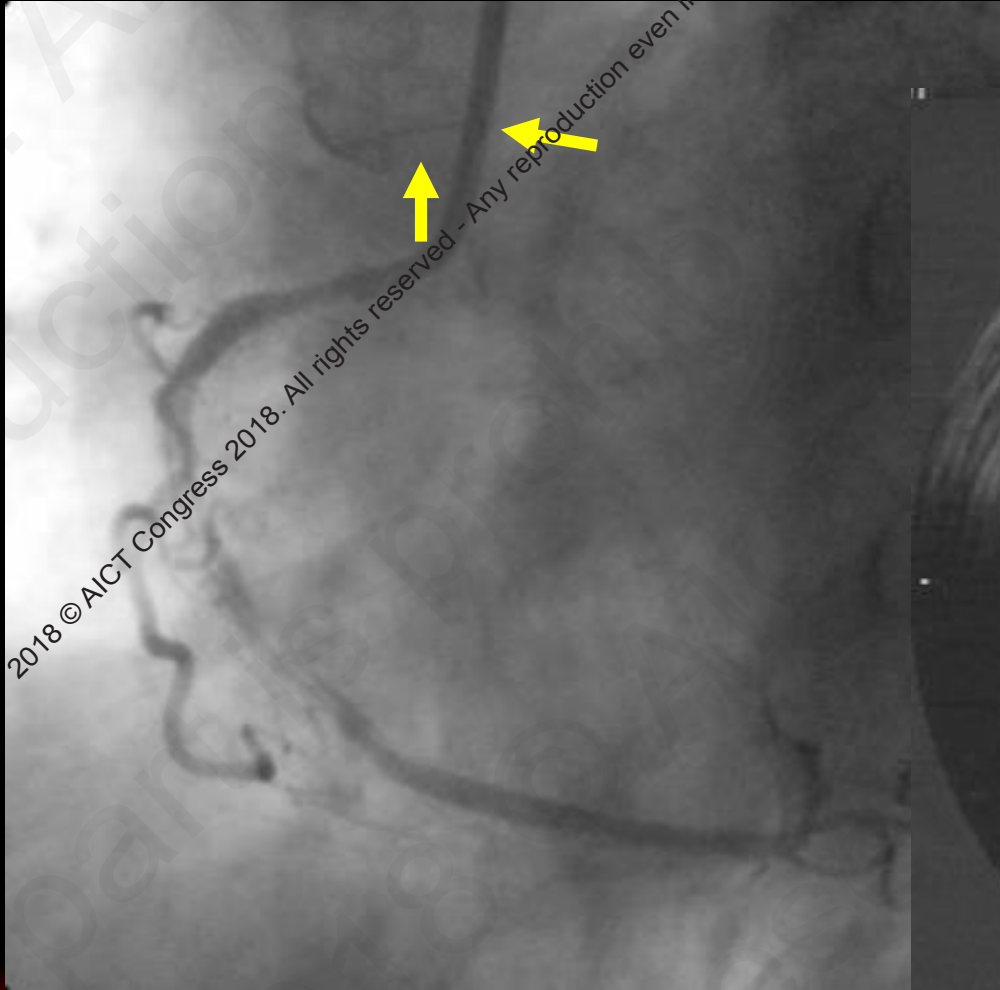


3 Dimensional Orientation

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



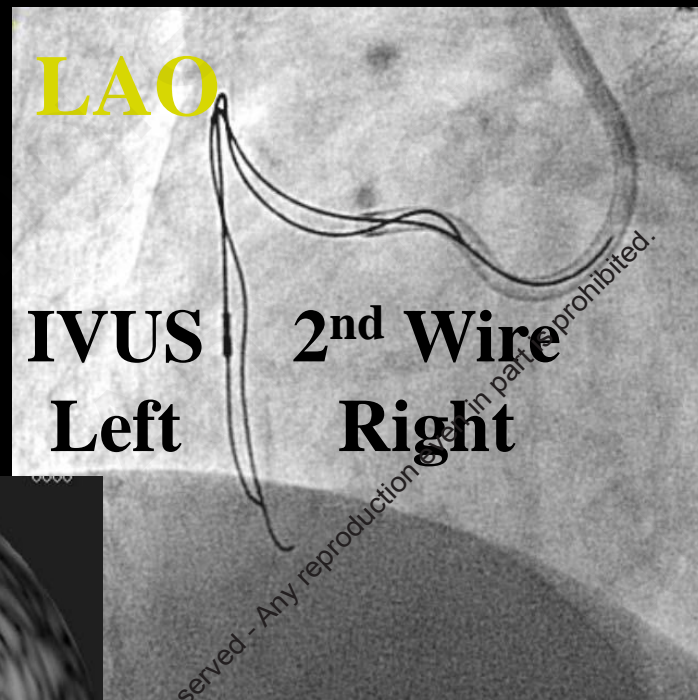
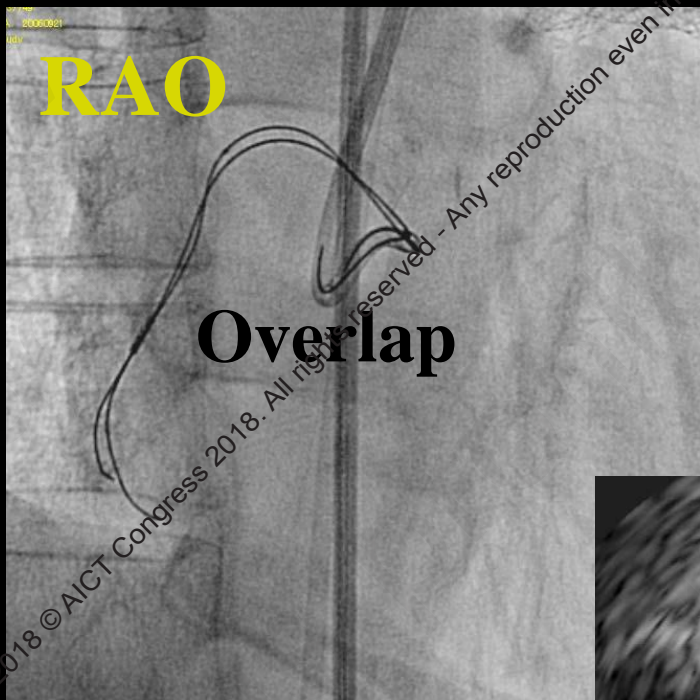
Side Hall



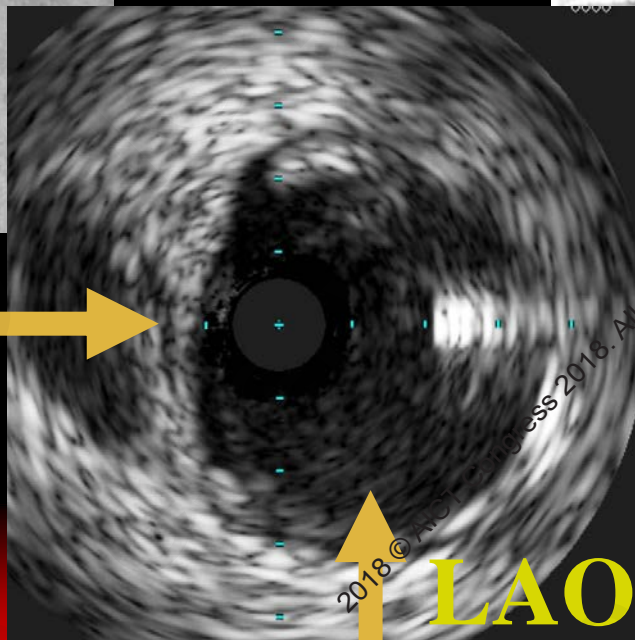
LAO



3 Dimensional Orientation



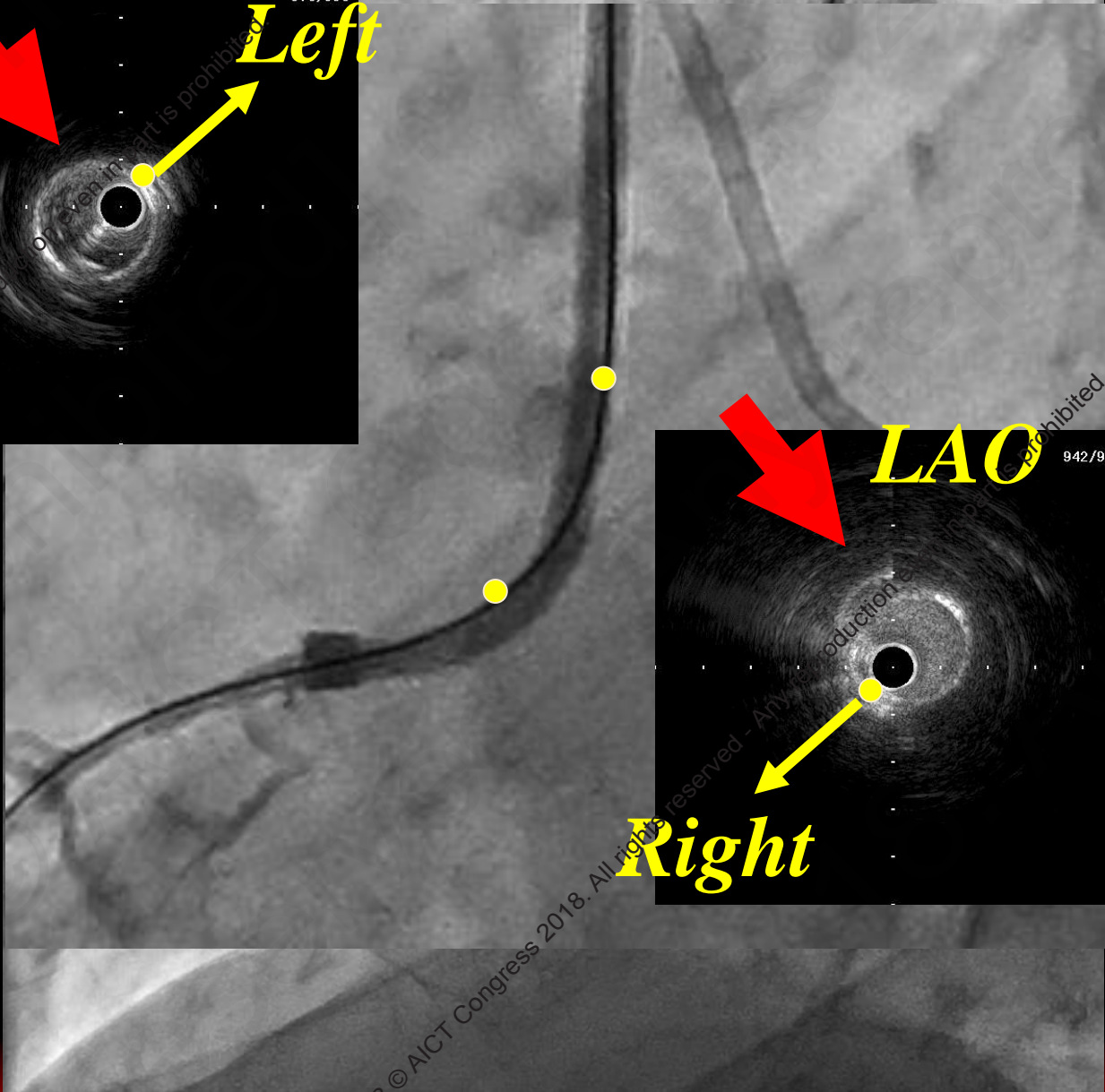
RAO View



LAO View



LAO IVUS Catheter Bias





Ideal IVUS System For CTO PCI

- 1. Short Tip**
- 2. Low Profile**
- 3. Good Crossability**
- 4. 3-D Orientation**
- 5. Dual Lumen Cath with IVUS**



Step by Step Approach

**Antegrade Approach
with Single Wire**



Parallel Wire Technique



Retrograde Approach

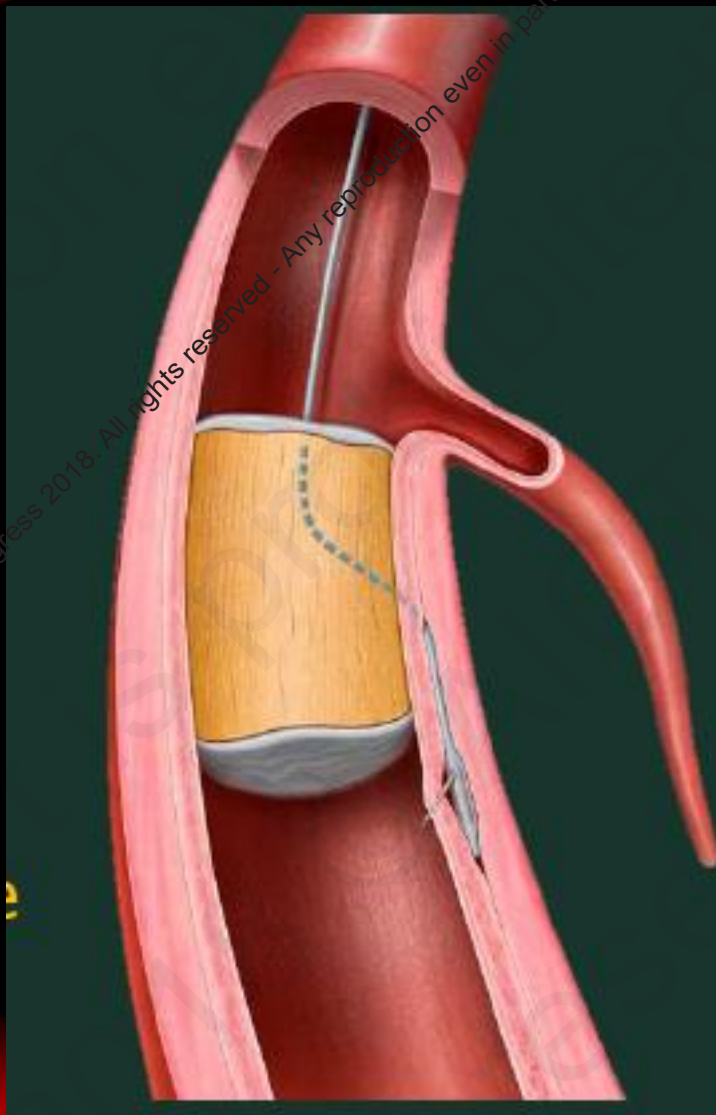


IVUS Guided Wiring

Antegrade Dissection Re-entry



Concept of Stingray Catheter





Step by Step Approach

**Antegrade Approach
with Single Wire**



Parallel Wire Technique



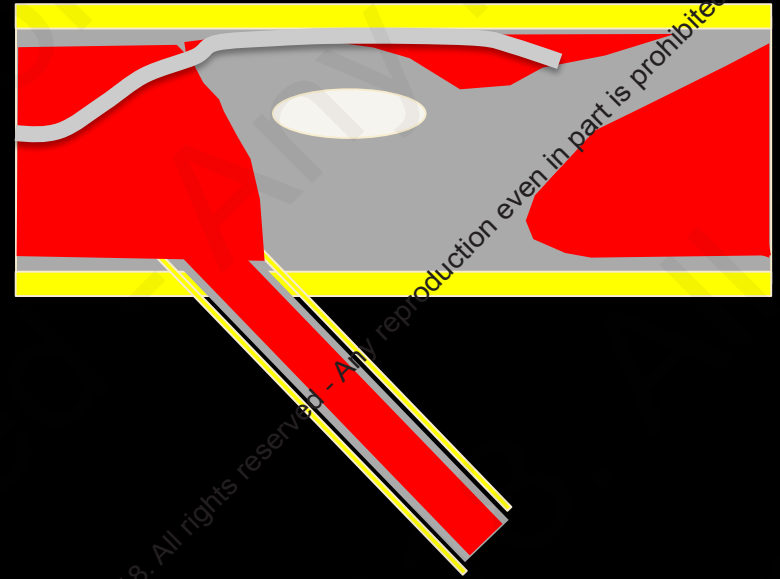
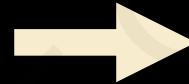
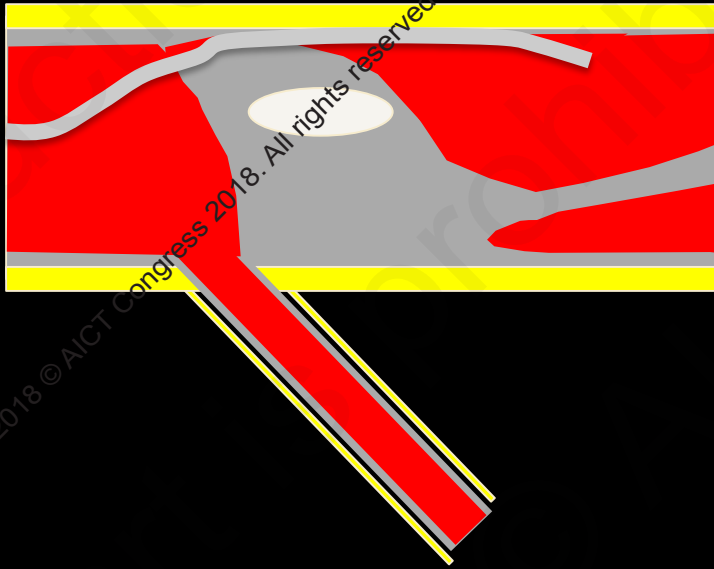
Retrograde Approach



**IVUS Guided Wiring
Antegrade Dissection Re-entry**



Straw Technique etc





Summary

I would personally like to have

- 1. Image modality to recognize GW position**
- 2. Improved dual lumen catheter for parallel wire technique**
- 3. Improved IVUS system for IVUS guided re-wiring**
- 4. Improved ADR**
- 5. Specialized device for straw technique**
- 6. Easy, secure, operator-independent devices**

Antegrade approach has not reached to a plateau, and is still developing.



TOPIC 2019

July 11-13, 2019

Thank you for Attention!



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THE OFFICIAL CONGRESS OF APSIC

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