

**Video Live Case Presentation**  
**“RCA-CTO Involving Distal Bifurcation”**

*Etsuo Tsuchikane, MD, PhD*

*Toyohashi Heart Center  
Nagoya Heart Center  
Gifu Heart Center*

# Disclosure

**Within the past 12 months, the presenter or their spouse/partner have had a financial interest/arrangement or affiliation with the organizations listed below.**

**Physician Name**

**Company/Relationship**

**Etsuo Tsuchikane, MD, PhD**

**Boston Scientific, Japan      Consultant**

**Asahi Intecc, Japan      Consultant**

**Case: 65 years old male**

**Diagnosis: AP, OMI (inferior)**

**History:**

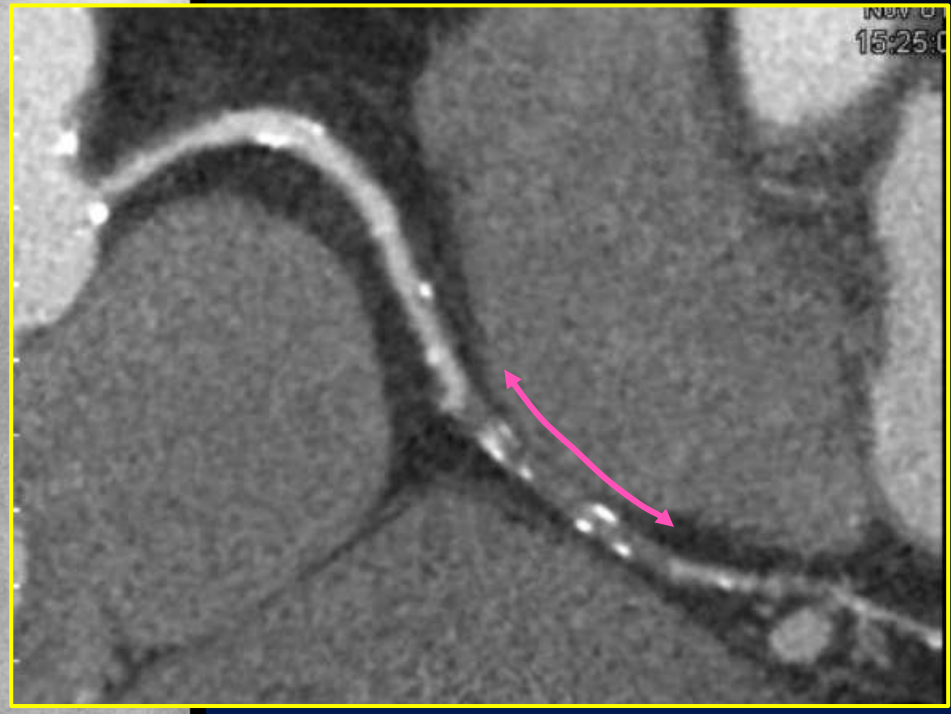
**Chest pain 3 years before the 1<sup>st</sup> CAG.**

**CAG showed a distal RCA-CTO (3 years old).**

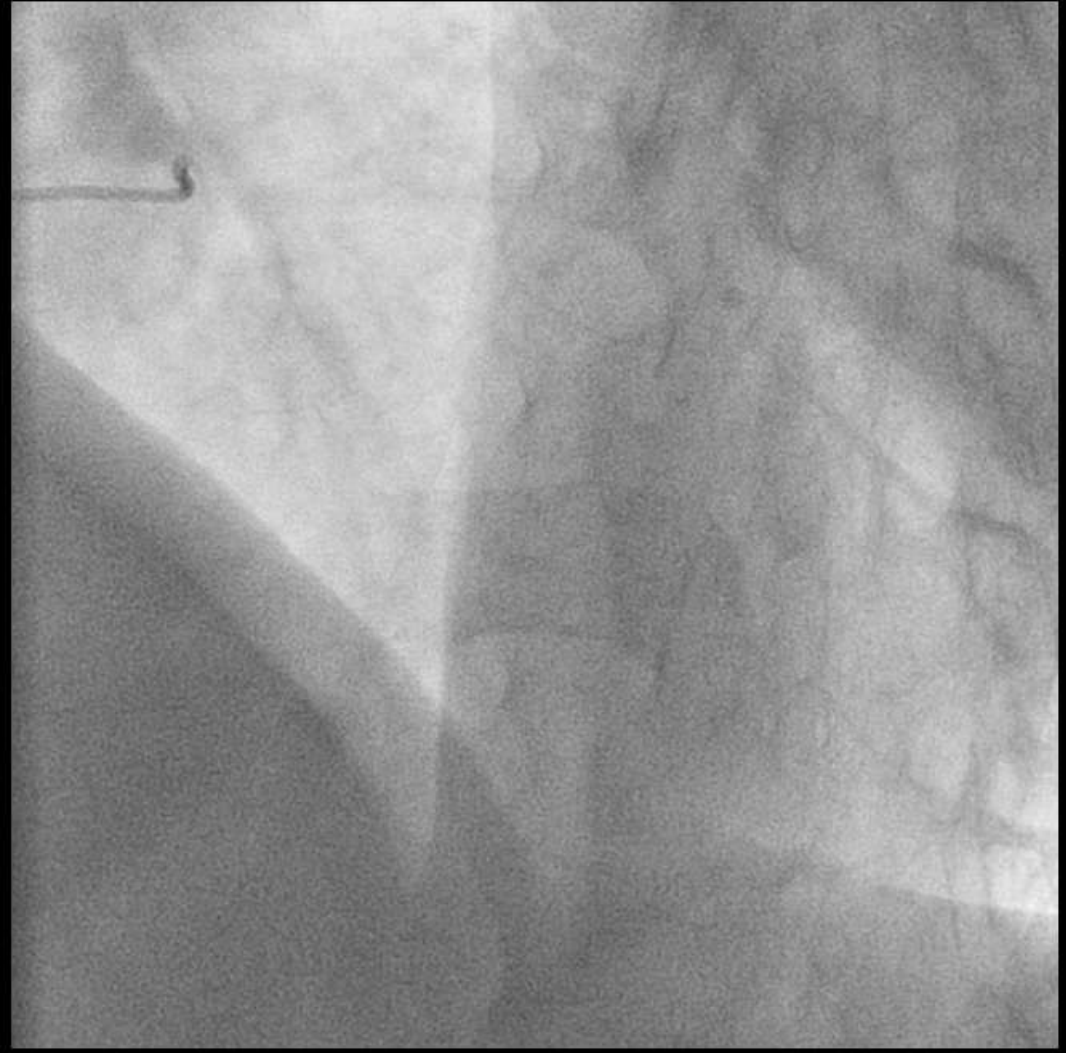
**Antegrade approach was failed.**

**Risk factors: DM, HL, smoking, obesity**

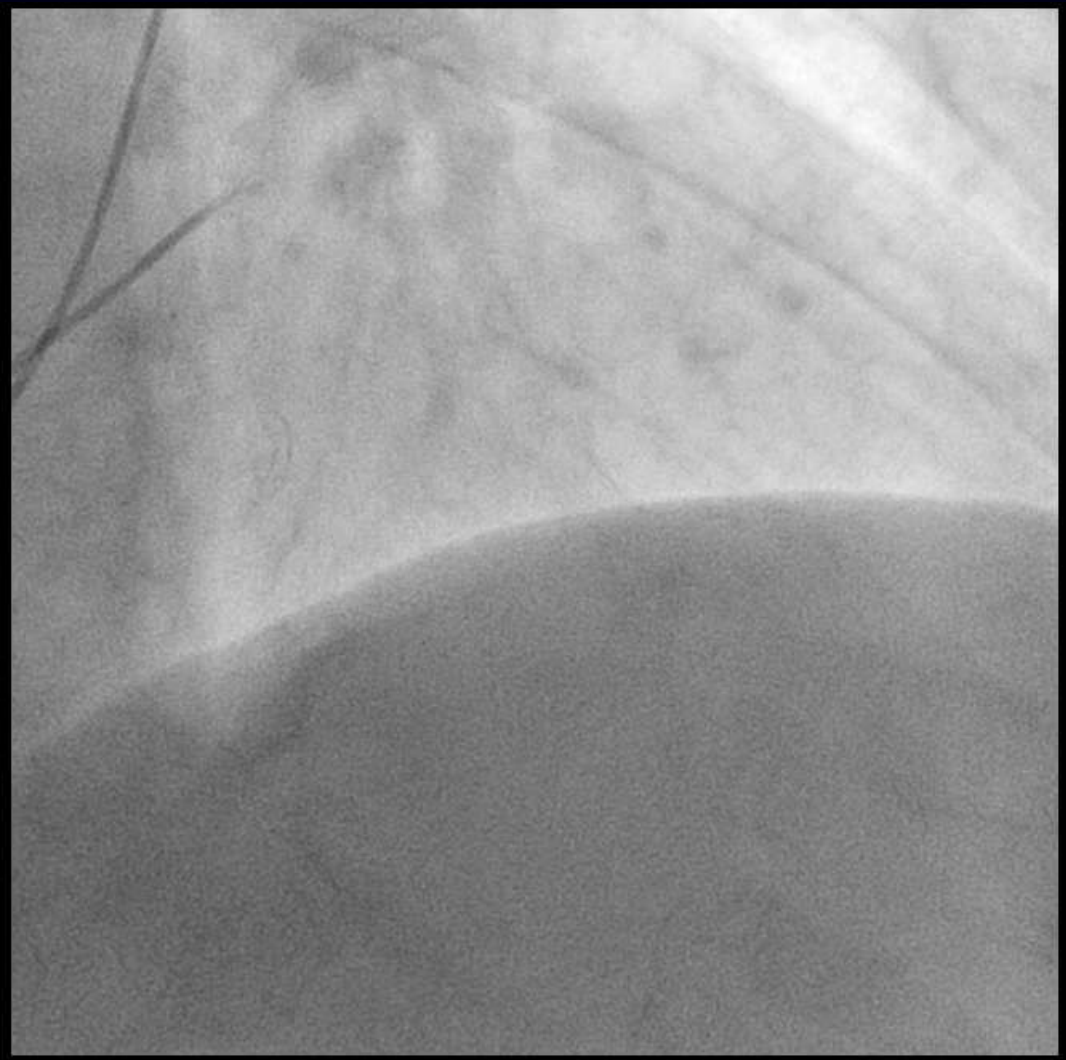
# 1st CAG



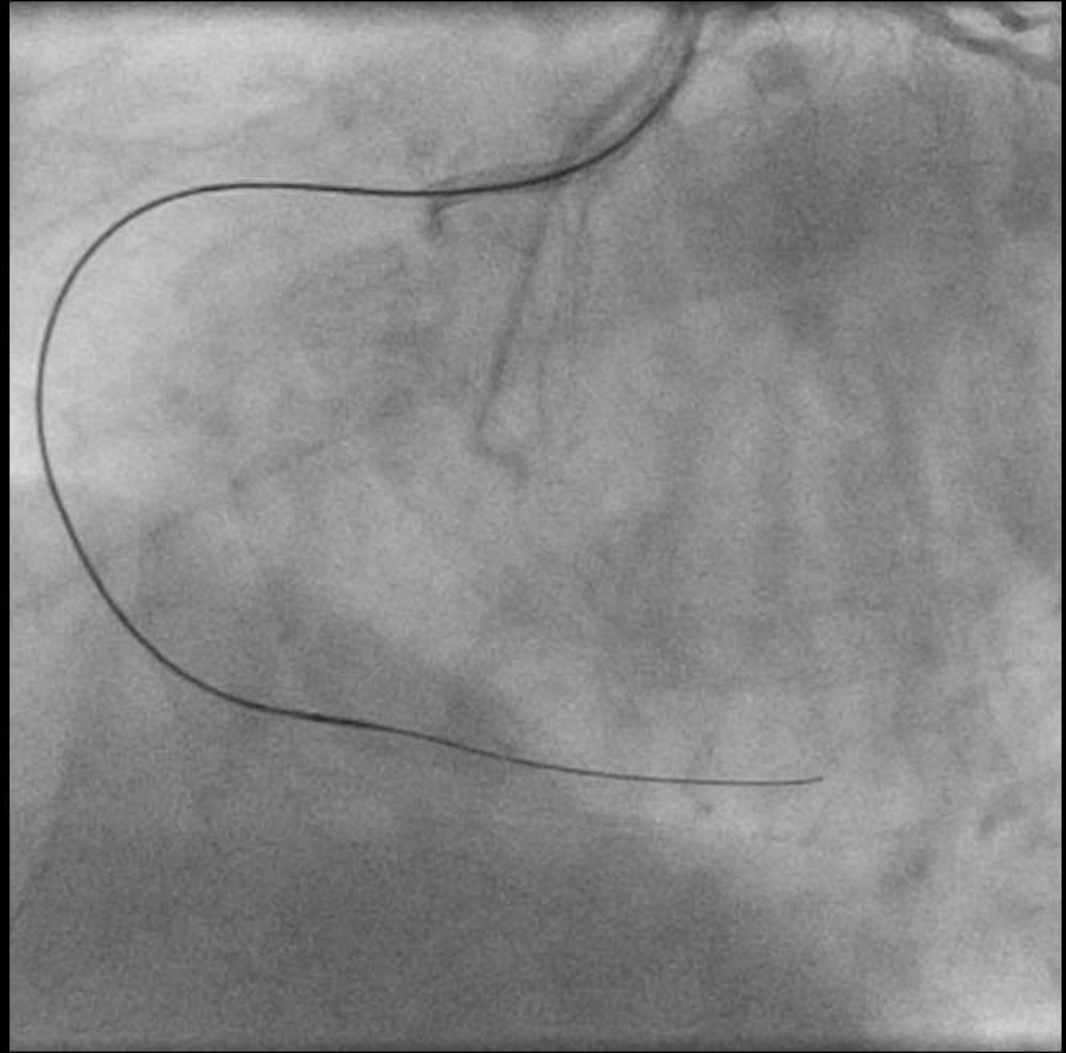
**1<sup>st</sup> CAG**



**1<sup>st</sup> CAG**



**1<sup>st</sup> PCI**



## Problem List

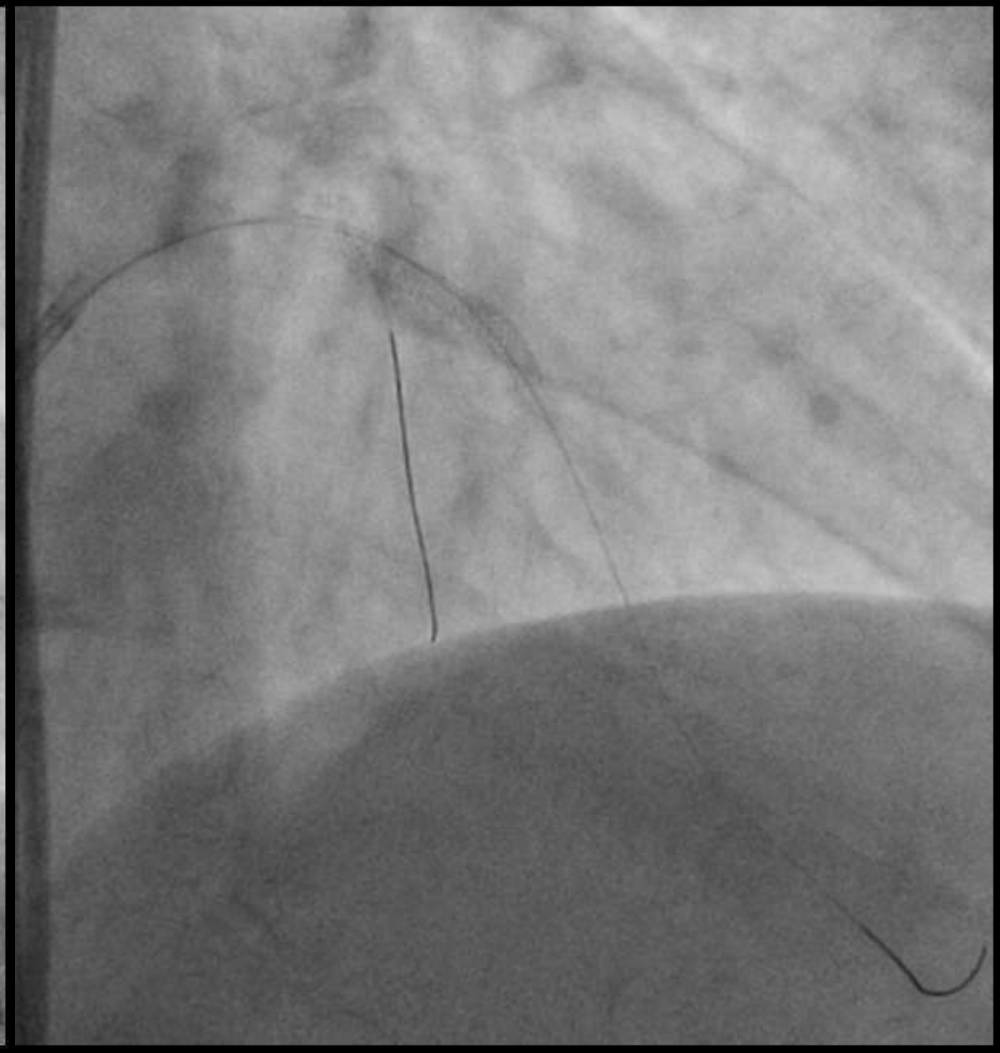
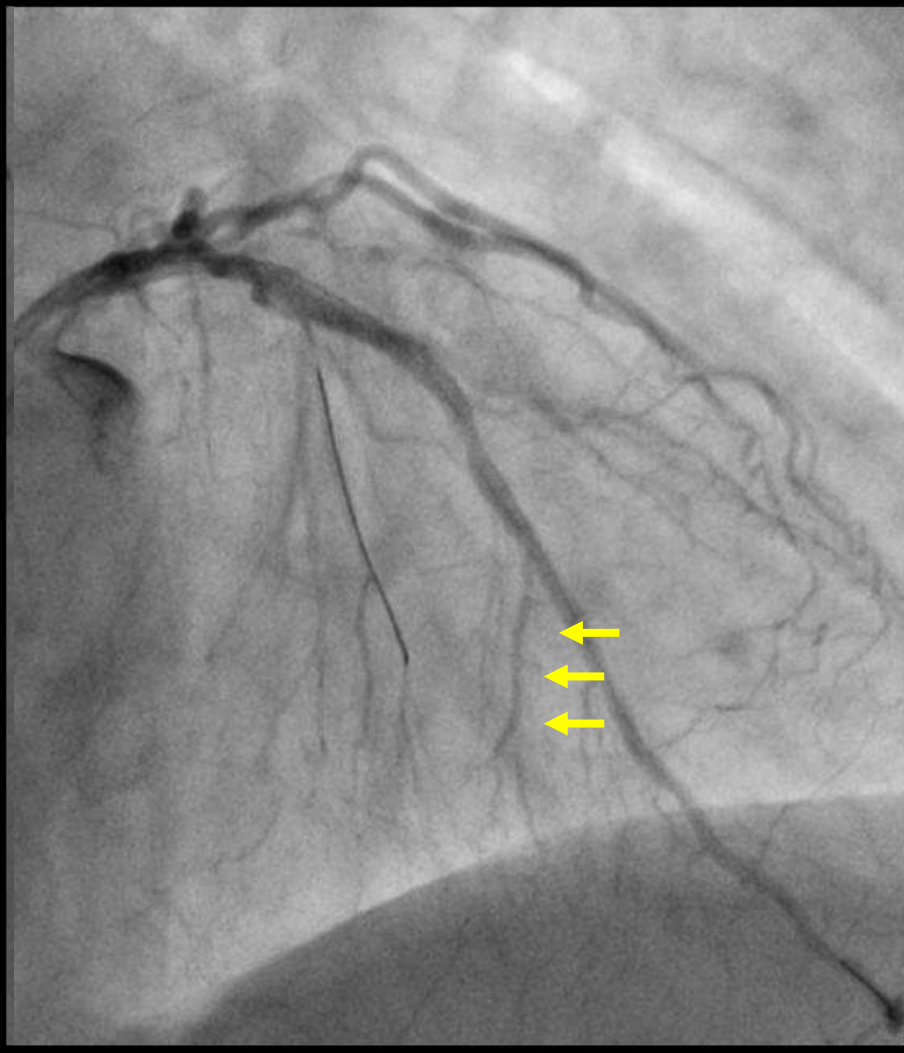
- ✓ **Reattempt (previous antegrade failure)**
- ✓ **CTO involving distal bifurcation**
- ✓ **No promising retrograde channel**
- ✓ **Mild lesion in donor artery (LAD)**



## **My Strategy**

- 1. Primary retrograde approach because of reattempt and the distal bifurcation**
- 2. Prophylactic treatment of mid LAD lesion based on IVUS finding**
- 3. Exploration of septal channel**
- 4. A-C channel surfing as a last resort as retrograde channel**
- 5. If no retrograde channel, the antegrade IVUS guided penetration**

**2<sup>nd</sup> PCI**



**After IVUS examination DES implantation**

## Summary

- **Procedure time: 120 min**
- **Fluoroscopy time: 55 min**
- **Contrast dose: 160ml**
  
- **IVUS examination of donor artery stenosis followed by stent implantation**
  
- **Tiny curved septal channel tracking by using XT-R**
  
- **Contemporary reverse CART with Gaia 2<sup>nd</sup>**
  
- **Side branch protection with retrograde wire**