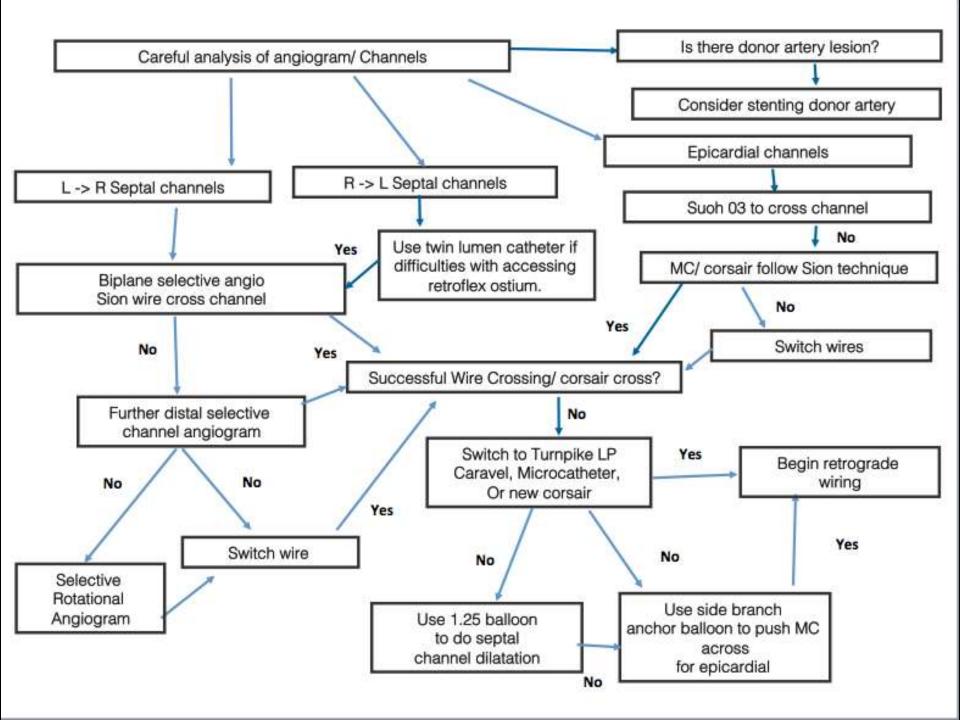
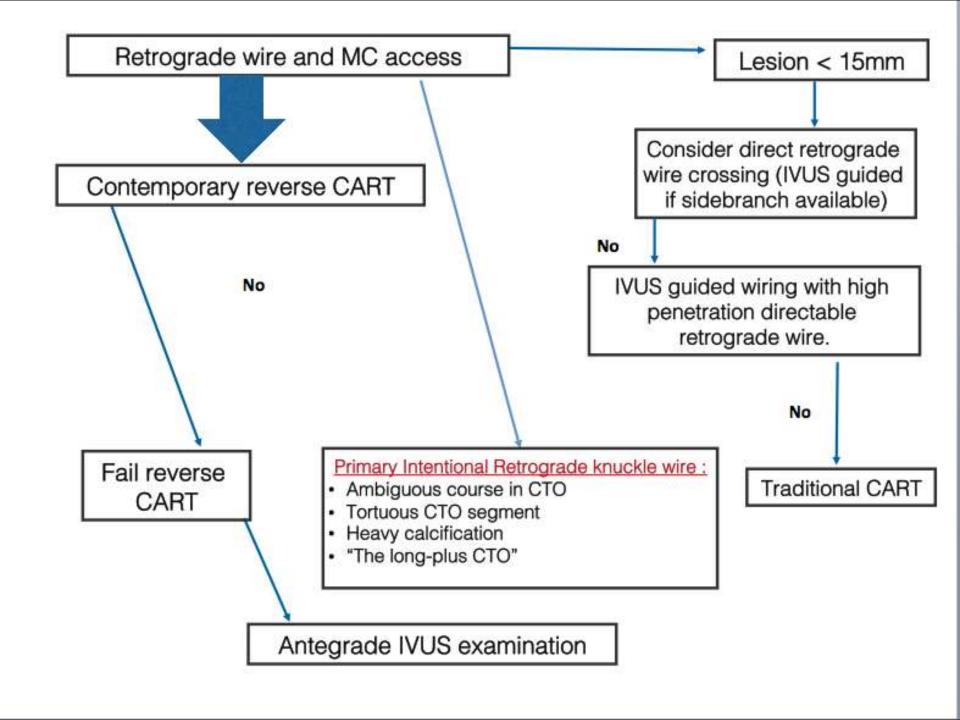
# Perspective for retrograde approach from APCTO Algorithm.

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Director APCTO club
Founding Director HKSTENT.
Director Cardiovascular Interventional Centre
Prince of Wales Hospital,
Chinese University Hong Kong.



#### Key points in channel crossing.

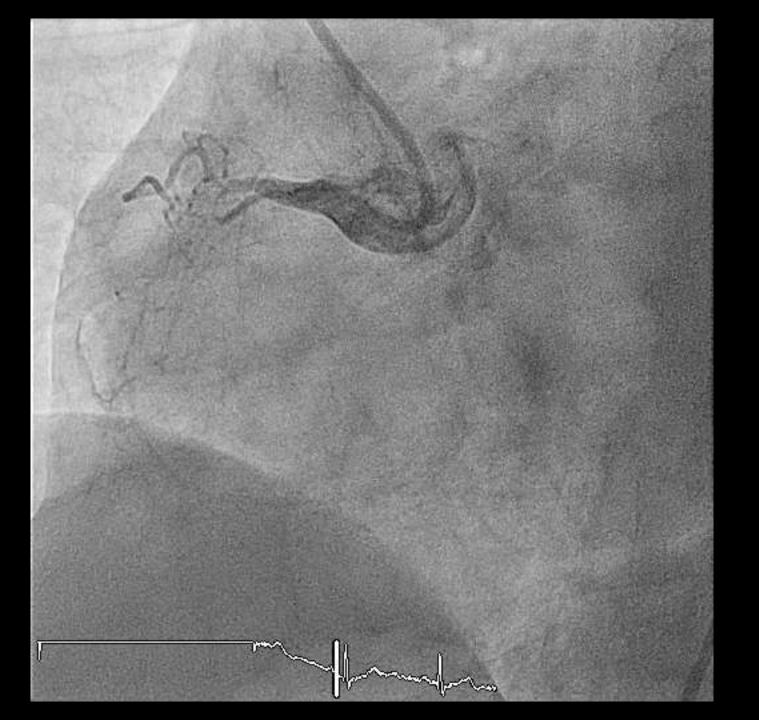
- Stenting intermediate lesions in the donor artery.
- Selective collateral channel angiograms in L->R septals.
- Switching wires for collateral channel wiring when fail to wire.
- Switching microcatheters if failed to cross before trying ballooning (for septals).



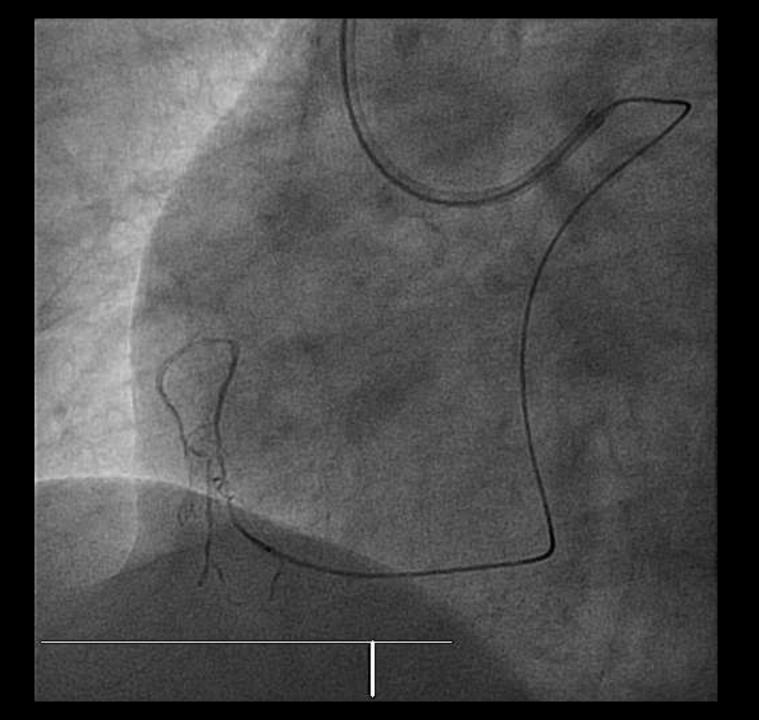
#### Key points for CTO crossing.

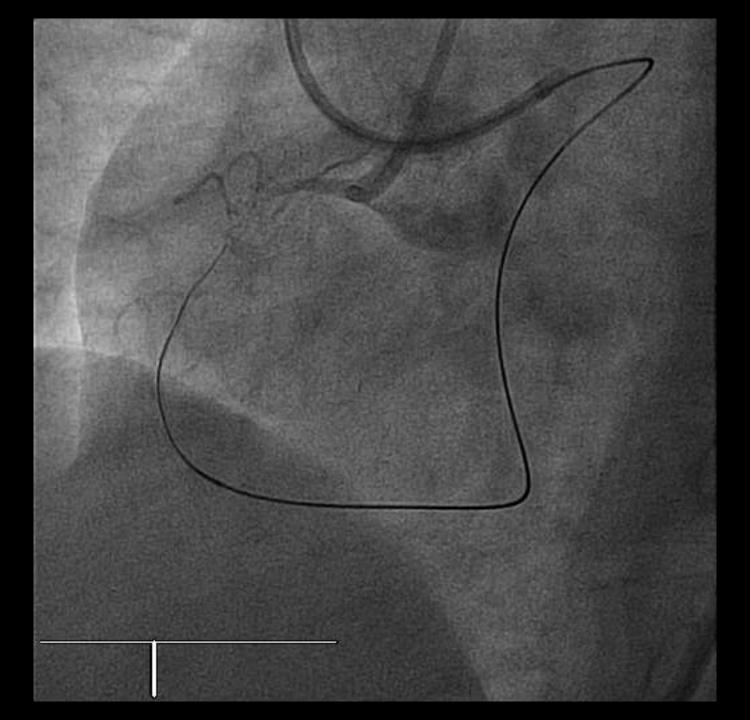
- Single retrograde wire crossing for short CTO.
- The algorithm tells us what to do when failed retrograde single wire in short CTO.
- Intentional subinitimal tracking for "long plus" CTOs.
- Contemporary reverse CART for most CTOs.
- End Balloon Wiring (EBW) concept.

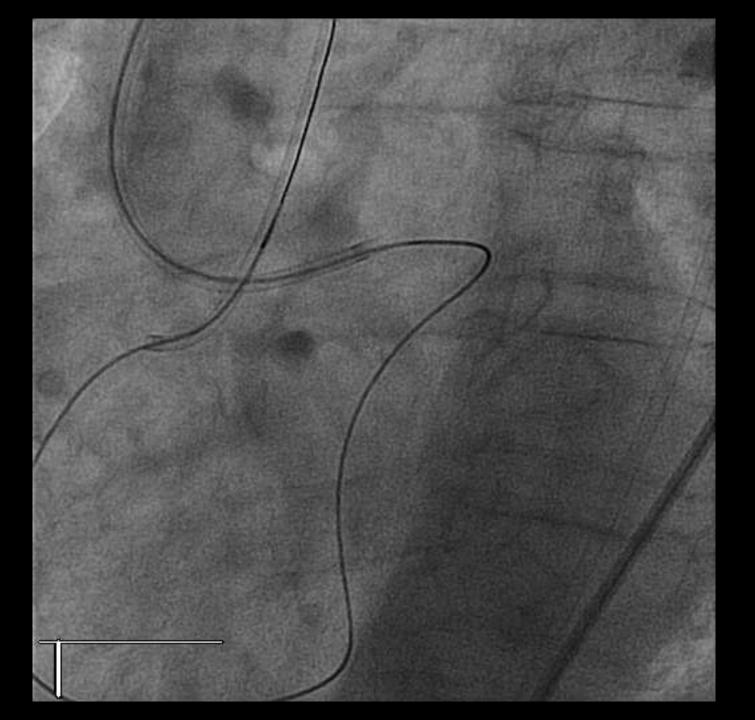
## Short CTO

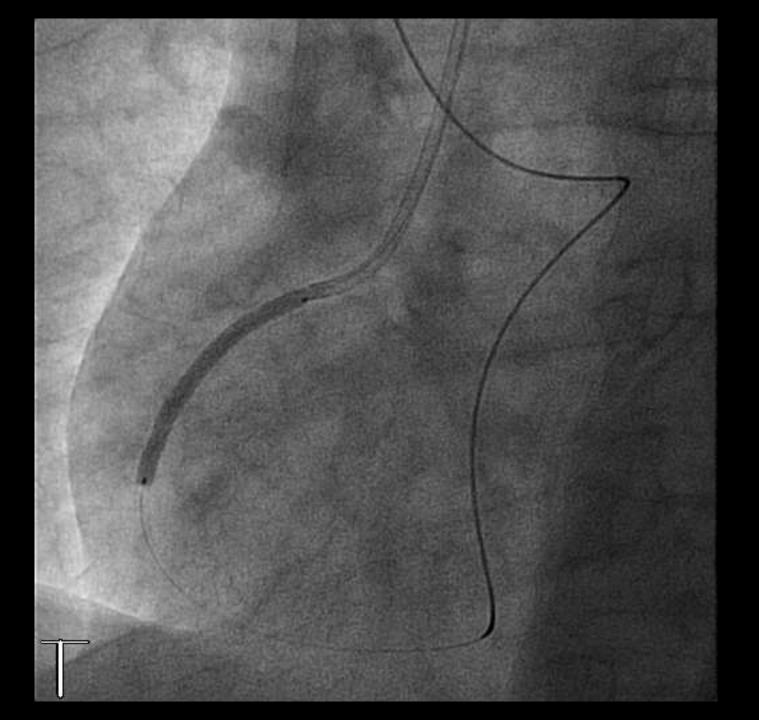


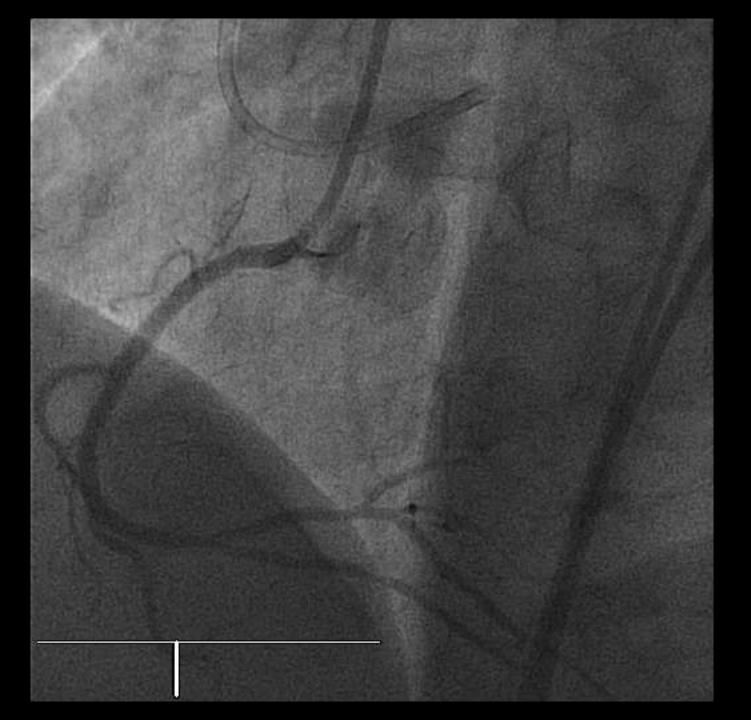








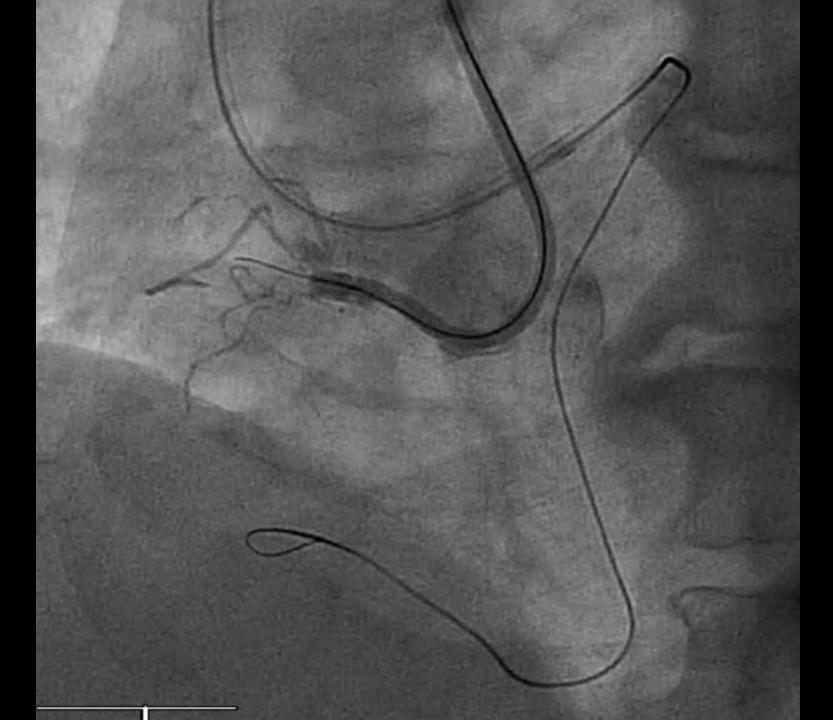


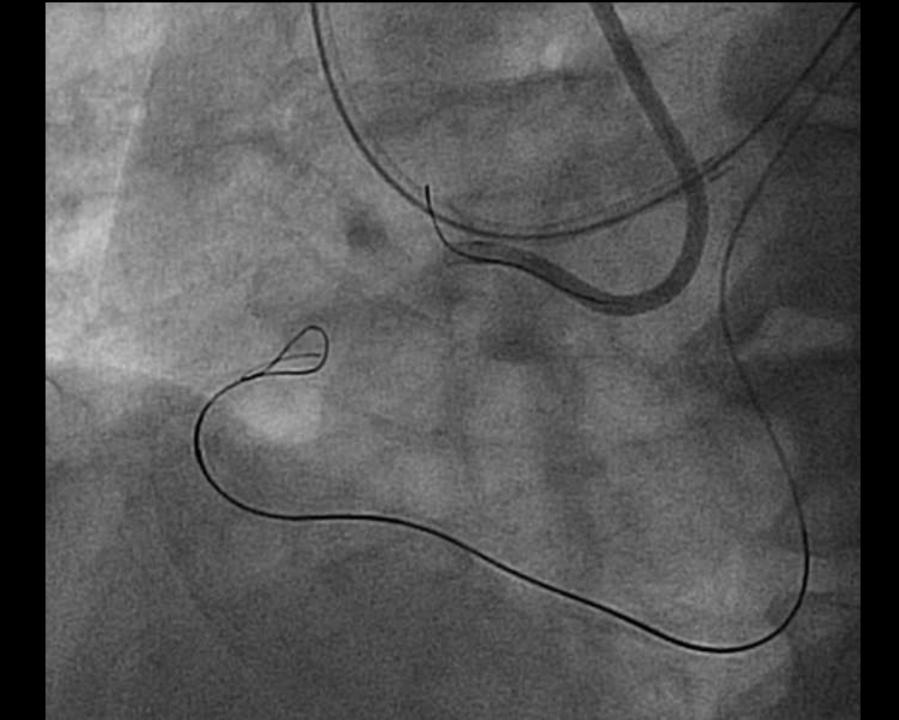


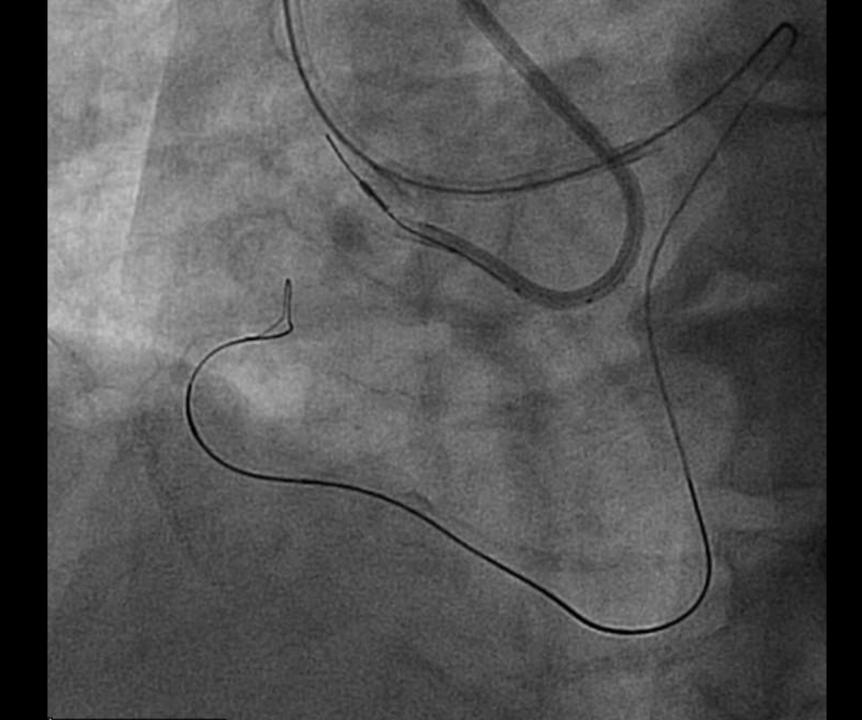
## "Long-plus" CTO

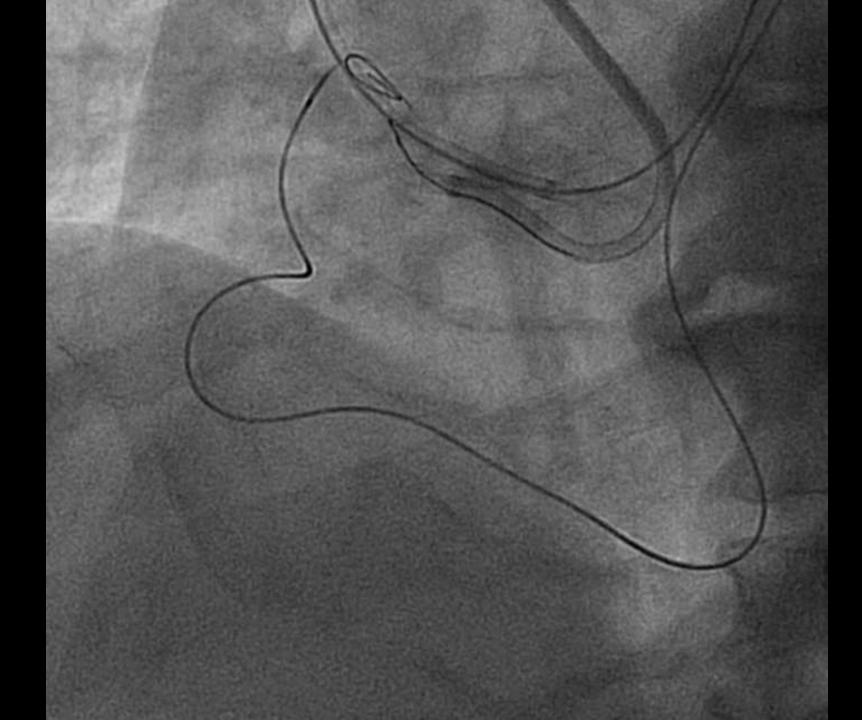
- Long = greater than 20 mm.
- Plus = Tortuous, Ambiguous, Calcified.
- Long alone does not necessarily mean wire failure, but "long-plus" very likely does.

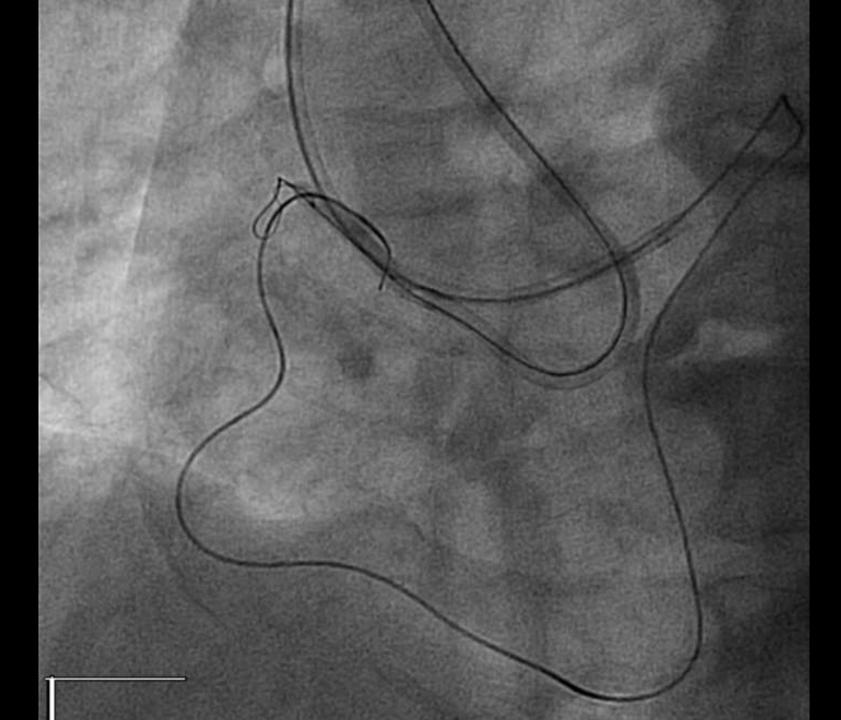














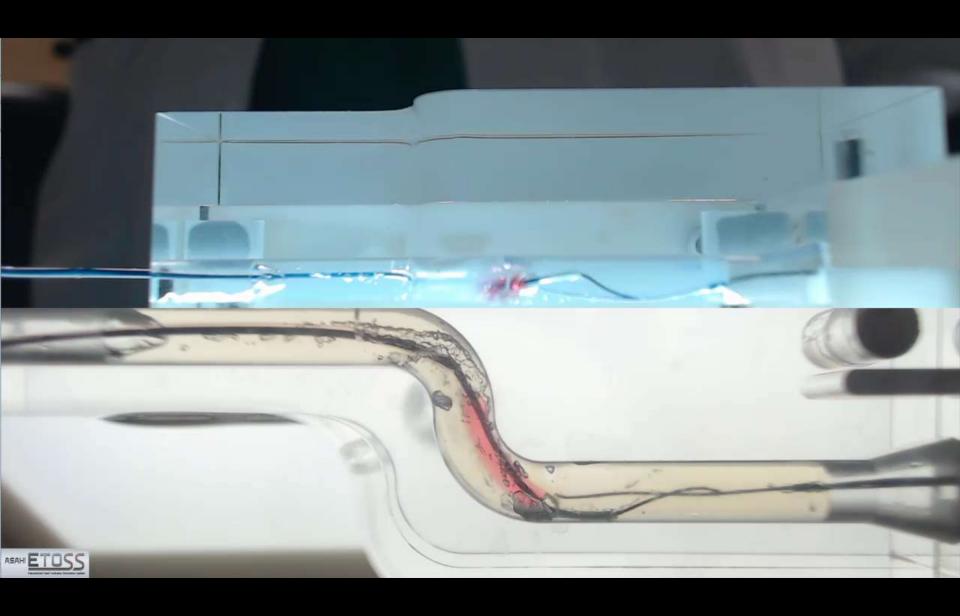


## Contemporary Reverse CART – EBW style.

- Contemporary reverse CART represents a change of philosophy
  - In Traditional reverse CART the solution to failed reverse CART is to increase the antegrade target space with bigger balloons (and ultimately with stent reverse CART)
  - In contemporary reverse CART the solution to failed reverse CART is to increase retrograde wire control to allow wiring into the antegrade space.

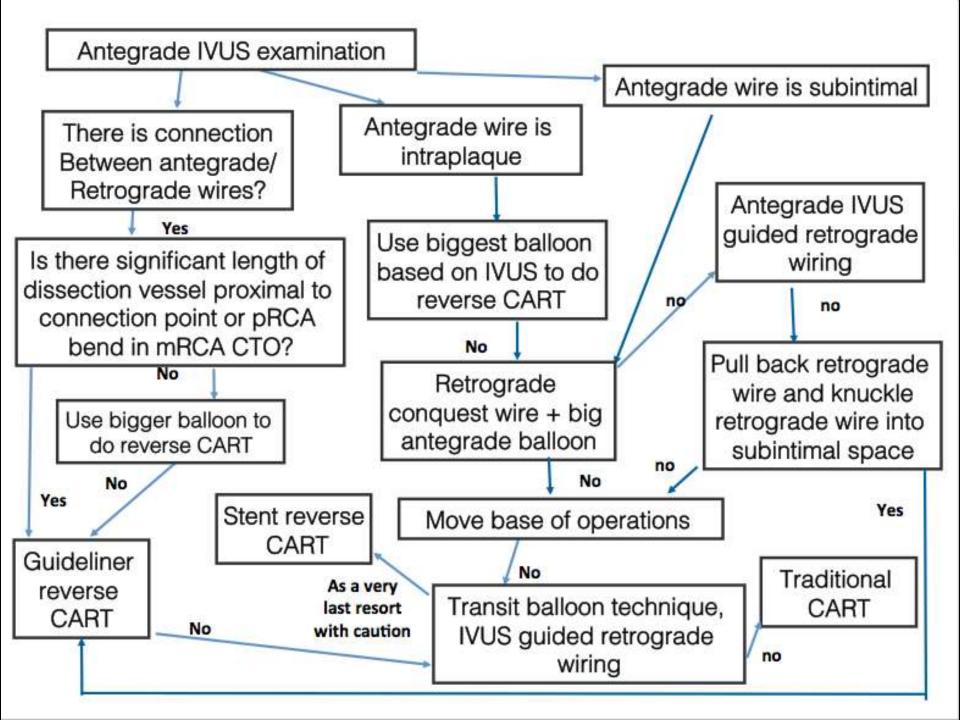
## Secret to wire control

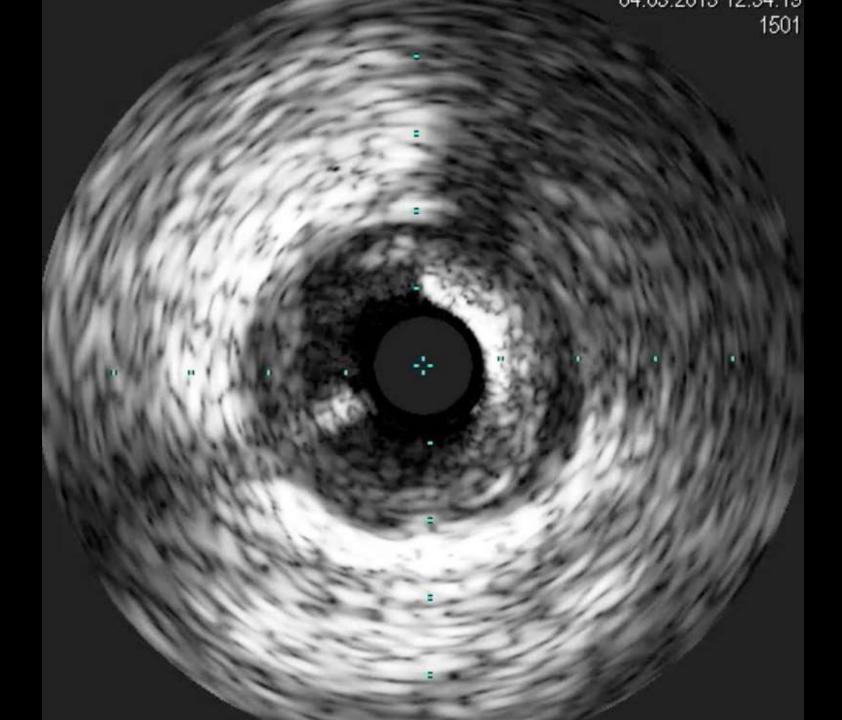
- 1. Back up force corsair should be drilled into CTO.
- 2. Virgin Territory minimal retrograde wiring should be done to not expand the retrograde wire space.
  - Antegrade preparation first.
  - Set up wiring in straight segment.
  - End balloon wiring (EBW).

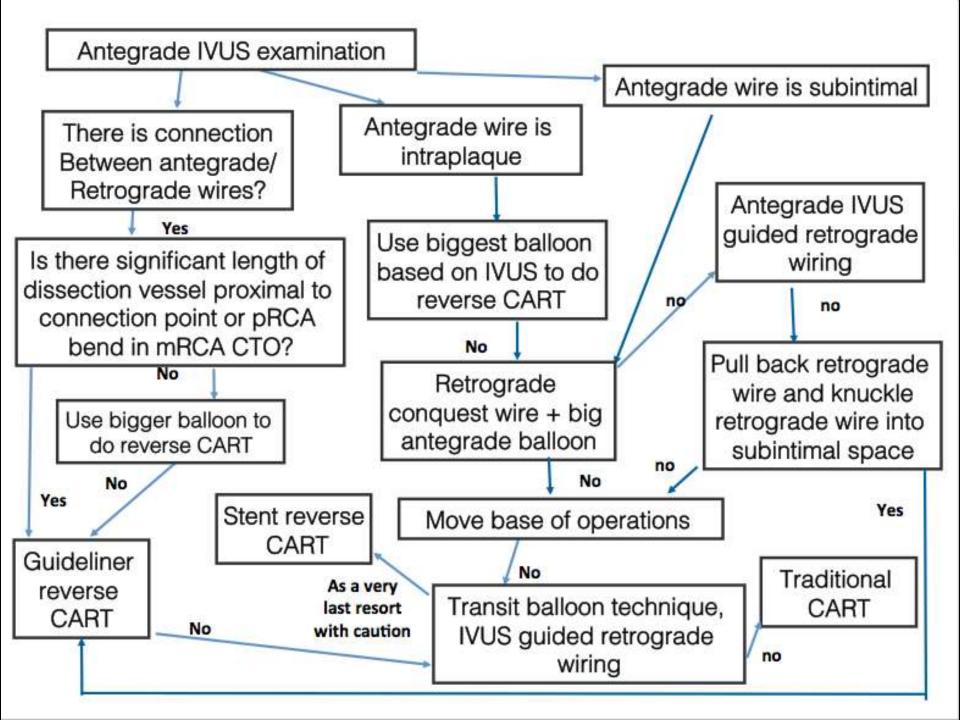


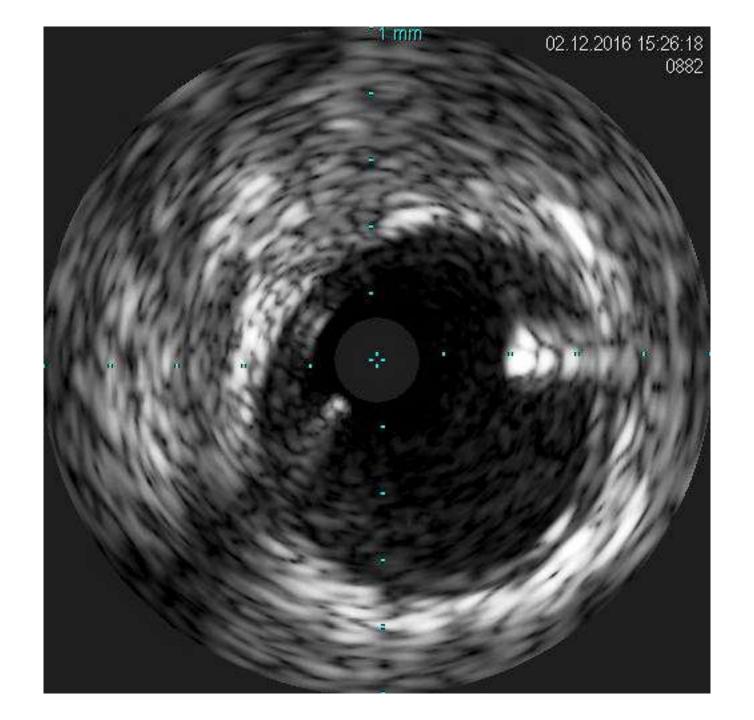
Key points – for failed reverse CART.

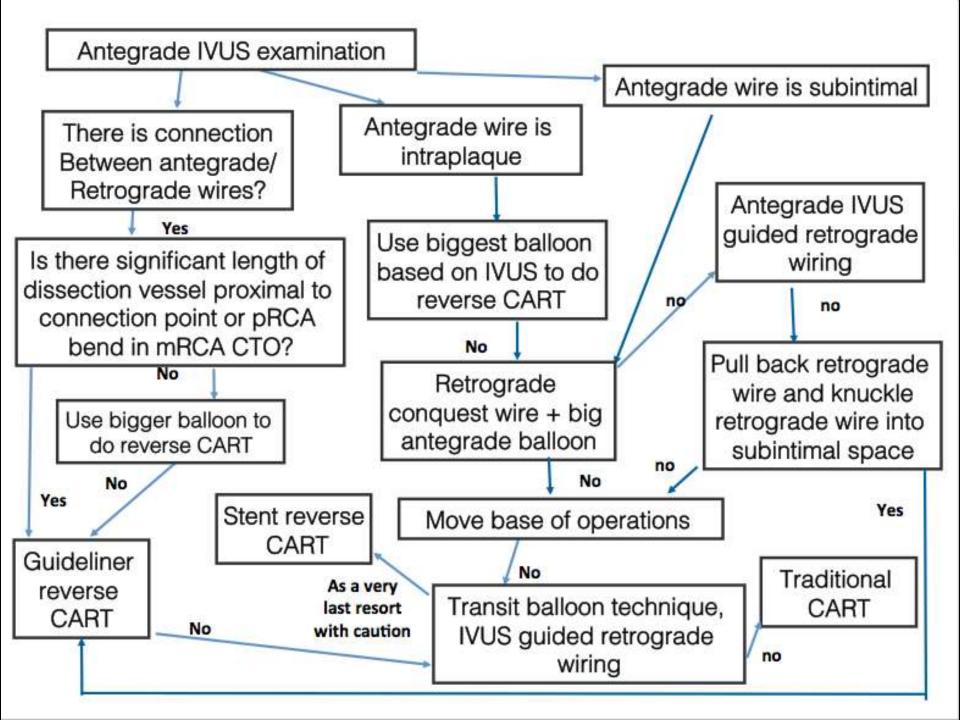
· IVUS examination and guide to next steps.



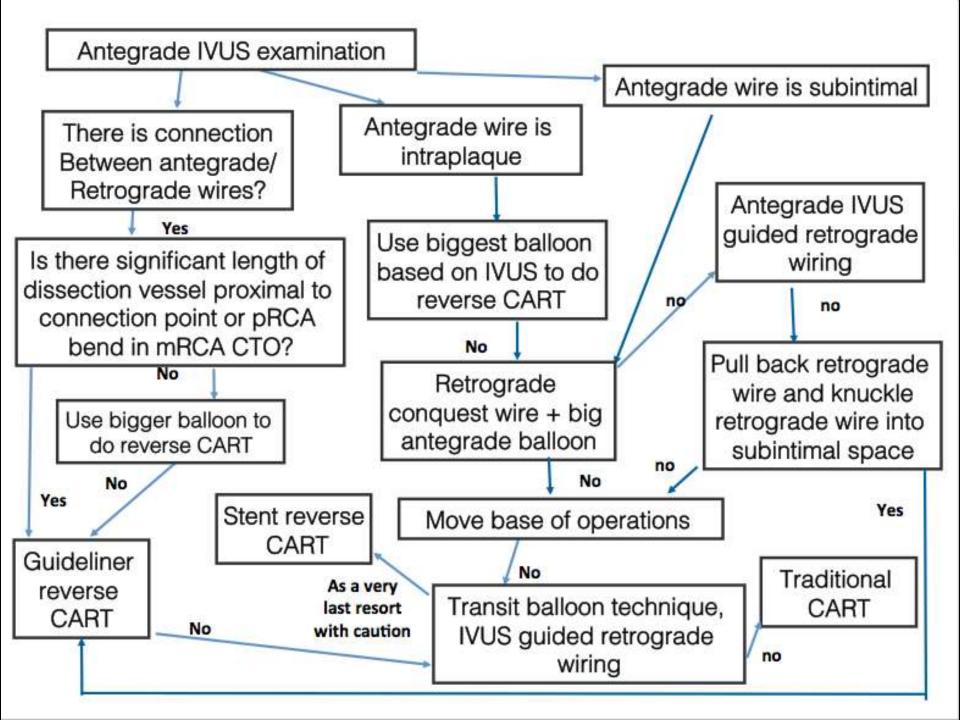


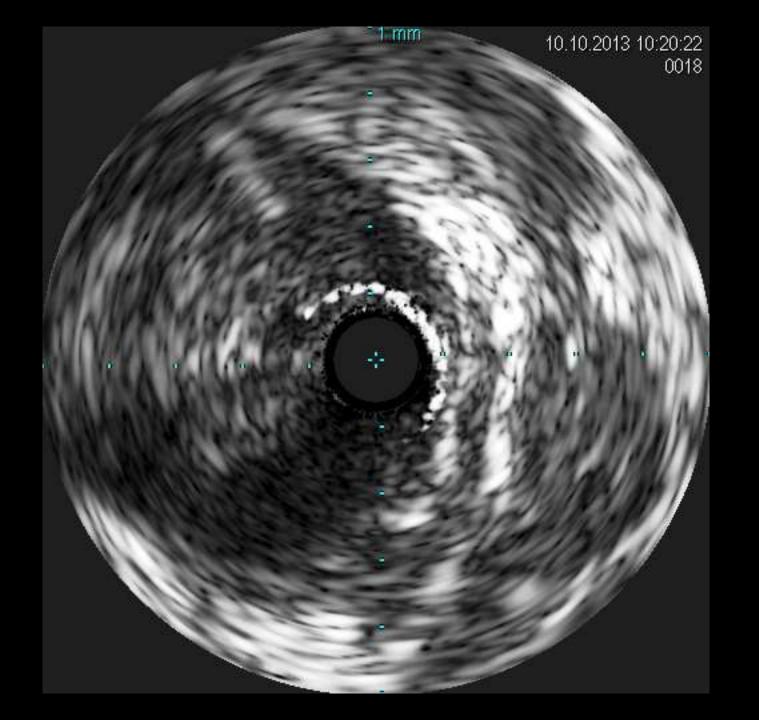














### Antegrade Balloon Transit of Retrograde Wire to Bail Out Dissected Left Main (full title below)

Wednesday, 06/10/09 | 10009 reads

Author(s): Eugene B. Wu, MRCP, MD, Wilson W. Chan, FRCP, Cheuk-Man Yu, MD

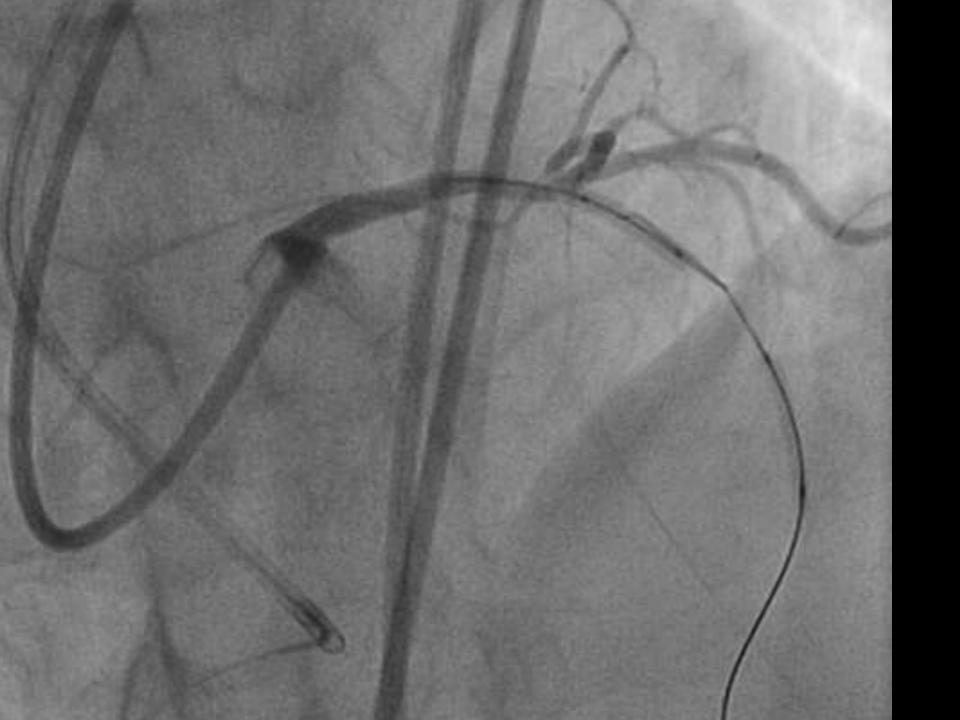


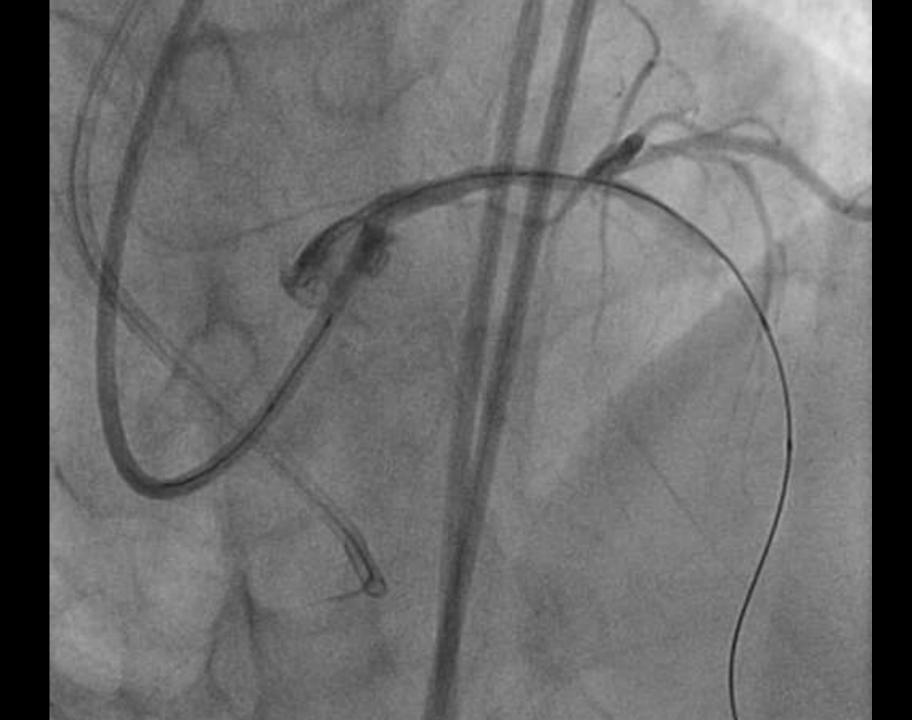
#### Issue Number:

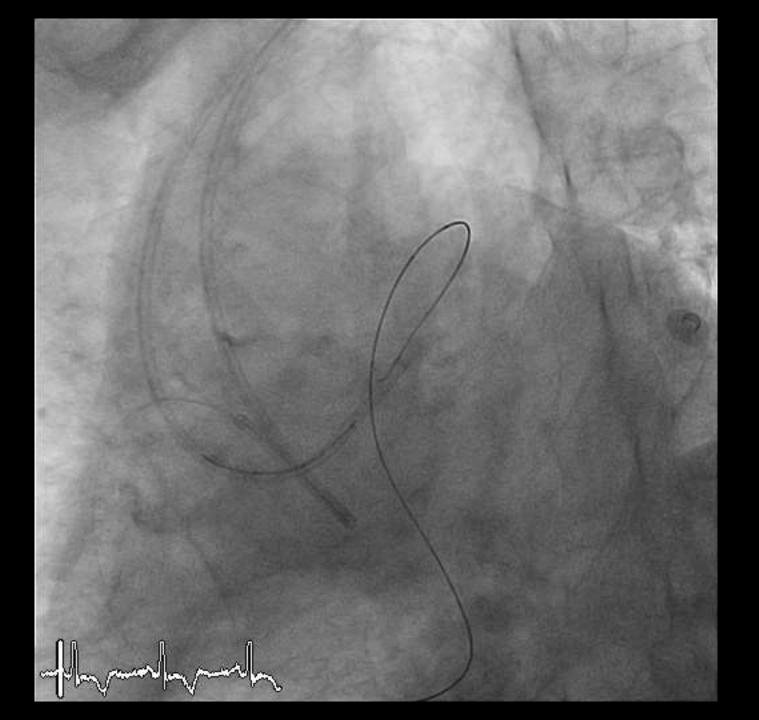
Volume 21 - Issue 6 - June, 2009

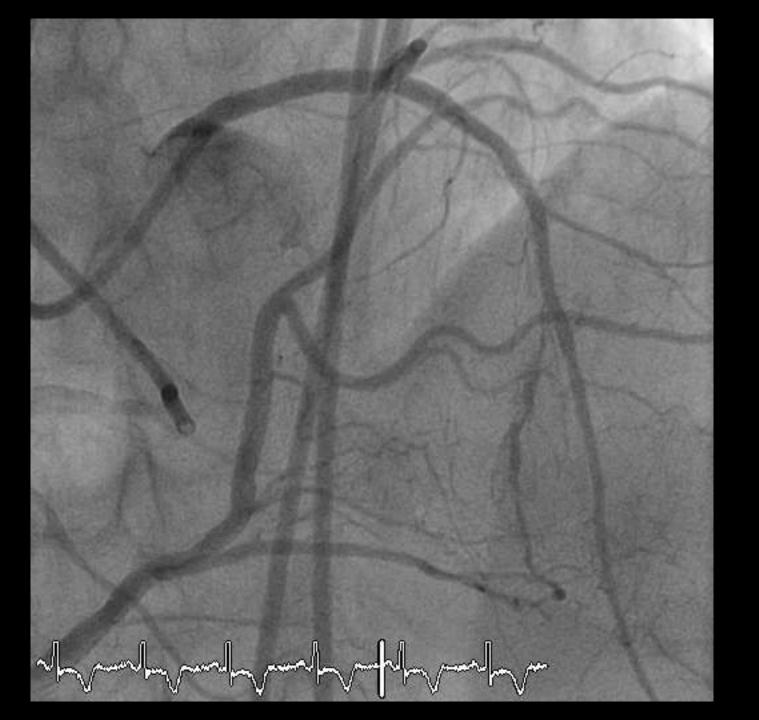
## Antegrade Balloon Transit of Retrograde Wire to Bail Out Dissected Left Main during Retrograde Chronic Total Occlusion Intervention — A Variant of the Reverse CART Technique

ABSTRACT: Left main dissection is usually caused by catheter manipulation during diagnostic angiography and occasionally during angioplasty. It is a dangerous complication due to the potential risk of left main territory ischemia. We report a novel iatrogenic cause of left main dissection from a retrograde wire during ostial left anterior descending artery chronic total occlusion retrograde angioplasty. We also report the use of the antegrade balloon as a transit chamber for the retrograde wire after a successful reverse CART technique in order to prevent further left main dissection. This technique is applicable to other retrograde approaches for chronic total occlusion cases where proximal artery dissection is undesirable.









Thank you.