BRA approach PCI with Cutting balloon for IMH with anomalous RCA-CTO (high anterior take-off)

Chiung-Jen Wu M.D., Chien-Her Lee M.D.

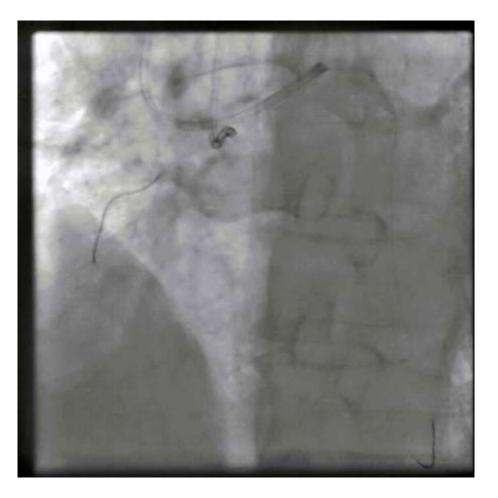
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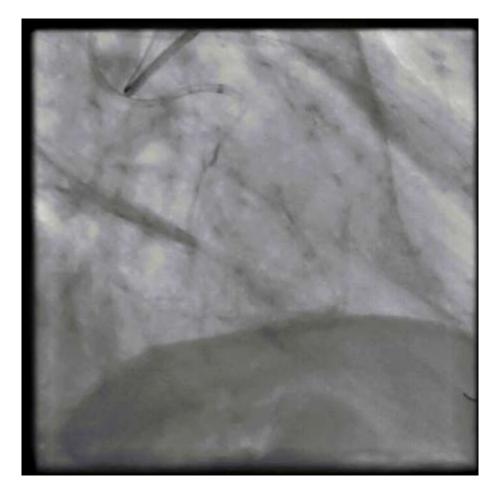
TCT-AP 2018 Complex-PCIs Session

Seoul, Korea

May 1st, 2016

Target mid-RCA CTO: via RRA Retrograde 7F BL4 guide (Terumo Corp.)

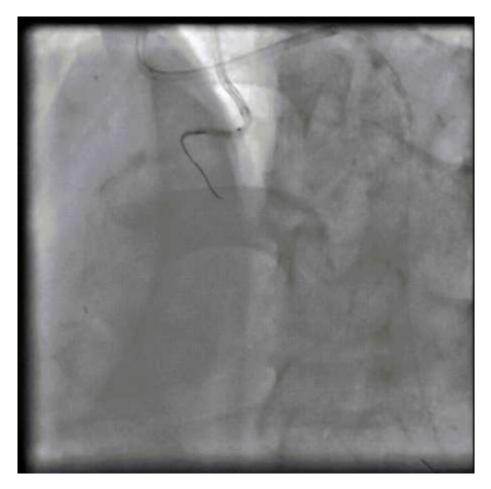


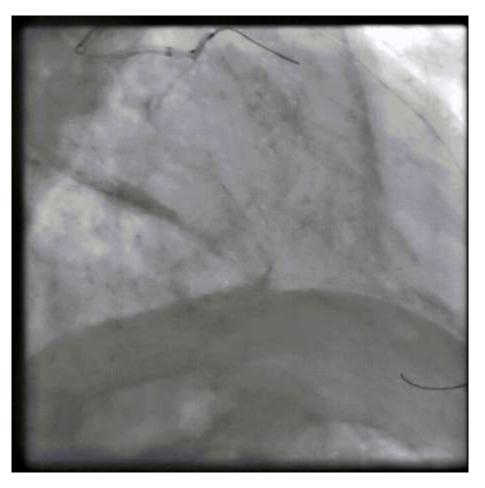


7Fr AL1, XTA guidewire

7Fr EBU 3.75

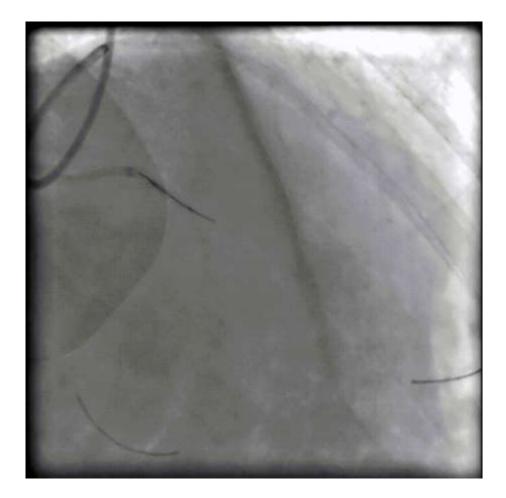
Antegrade recanalization: LRA 7F AL1 with 2x12 mm balloon anchoring at conus branch

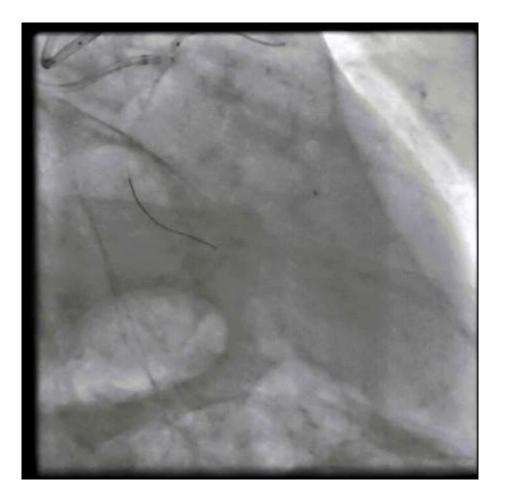




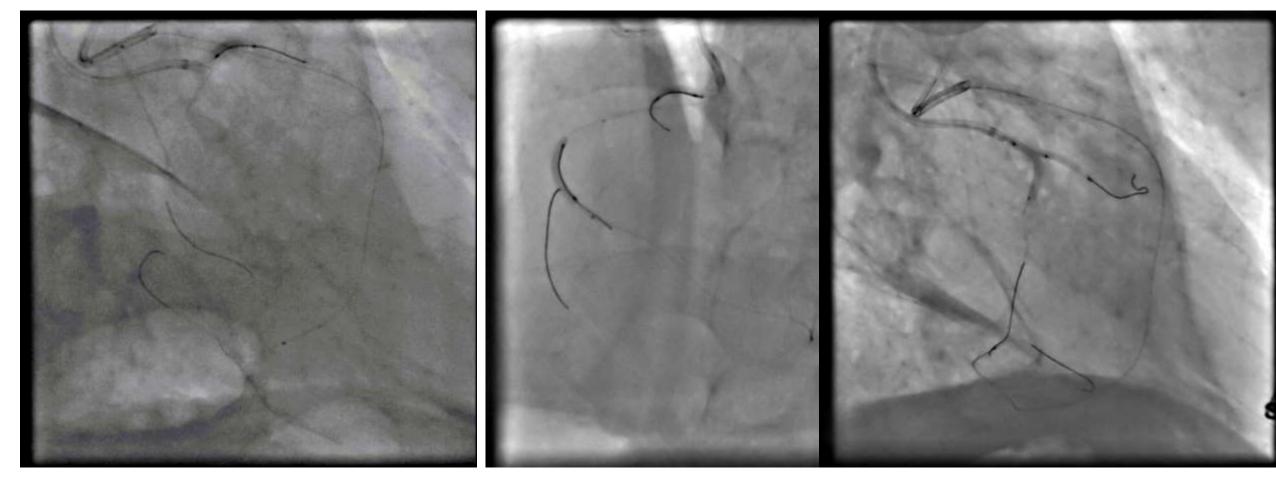
Finecross catheter in the acute marginal branch, but mid-RCA dissection, failed to get into d-RCA with Crusade

Retrograde approach: Septal collaterals & selective angiography



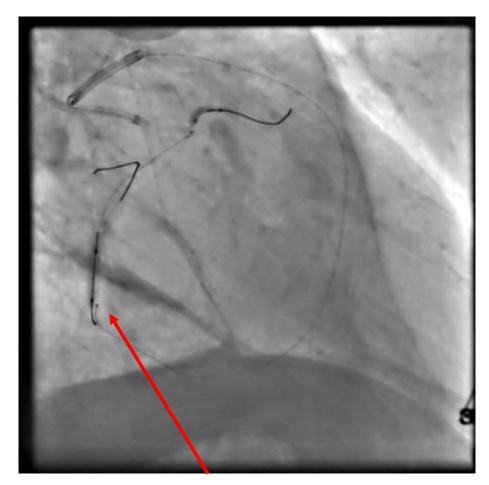


Reverse CART: Crusade aiming retrograde wire & antegrade wiring with UB3 for preparing

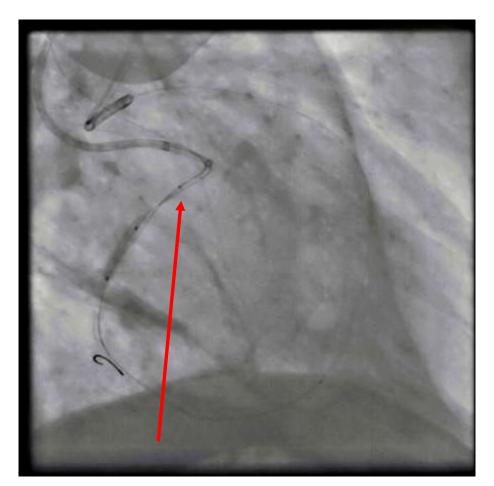


Reverse CART with a 2.5x15 mm balloon at 16 atm & 2x12 mm balloon anchoring at conus branch

Externalization with 5 in 6 technique: accidentally antegr. Wire down into PL branch

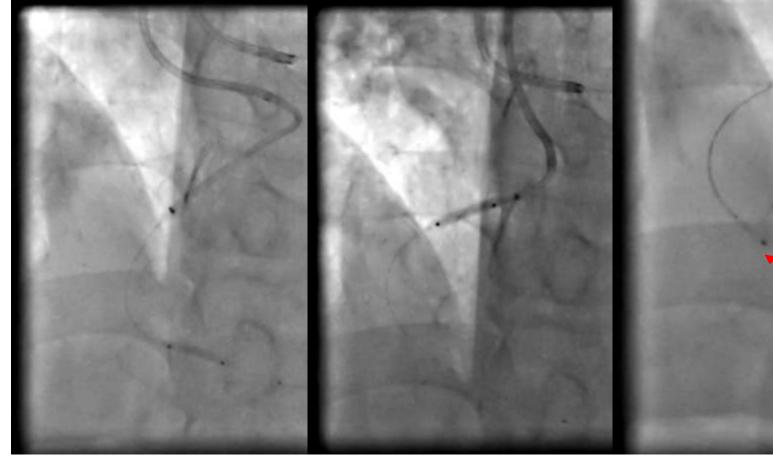


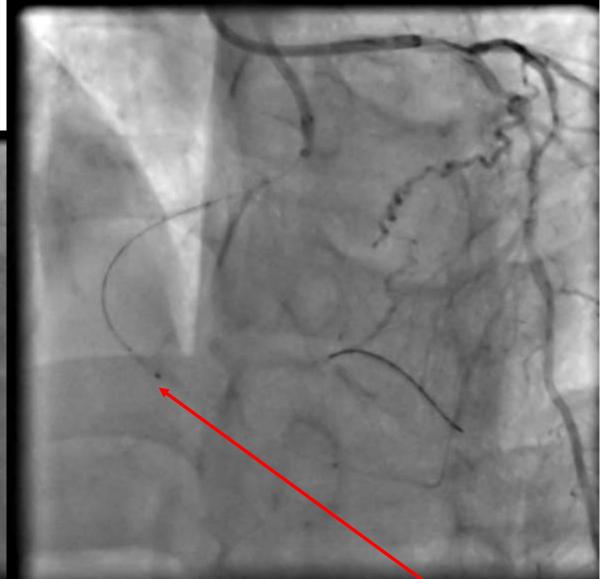
Send Finecross retrogradely with anchoring balloon 2.5x15 mm qt 10 atm



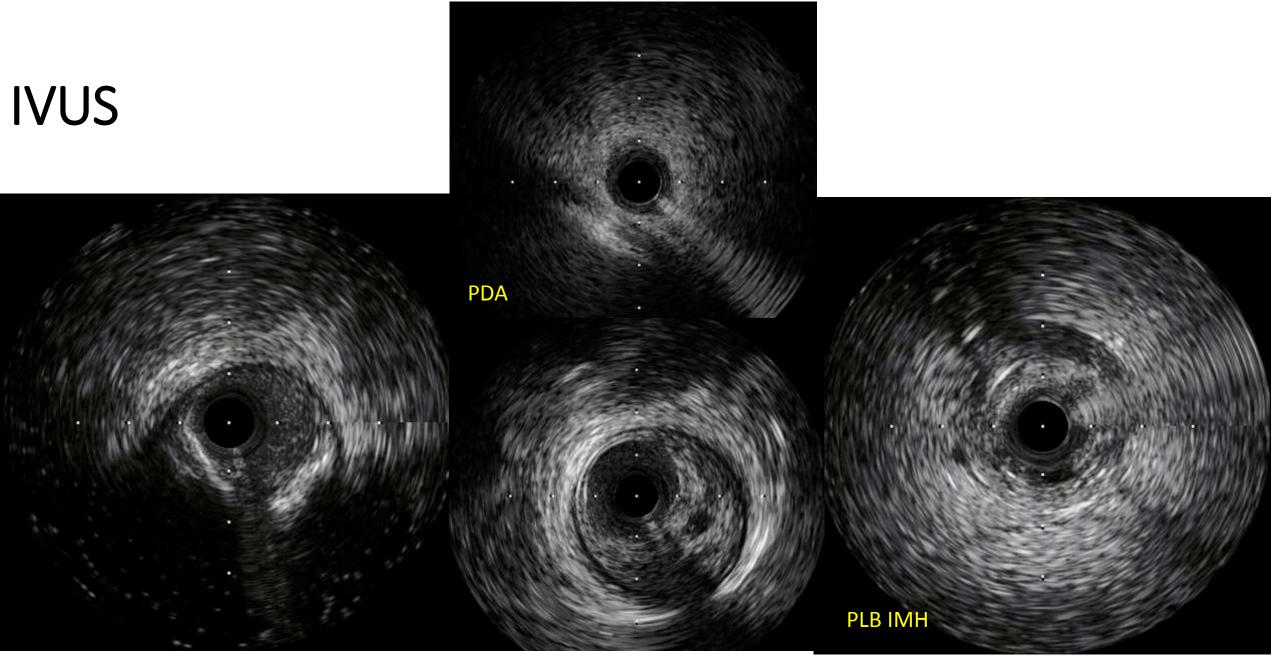
Advance 5 Fr guiding catheter with anchoring balloon & swallowing of retrograde F/C M,C., then externalization

POBA from PDA-RCA with 2.5x15 mm 6 -16 atm





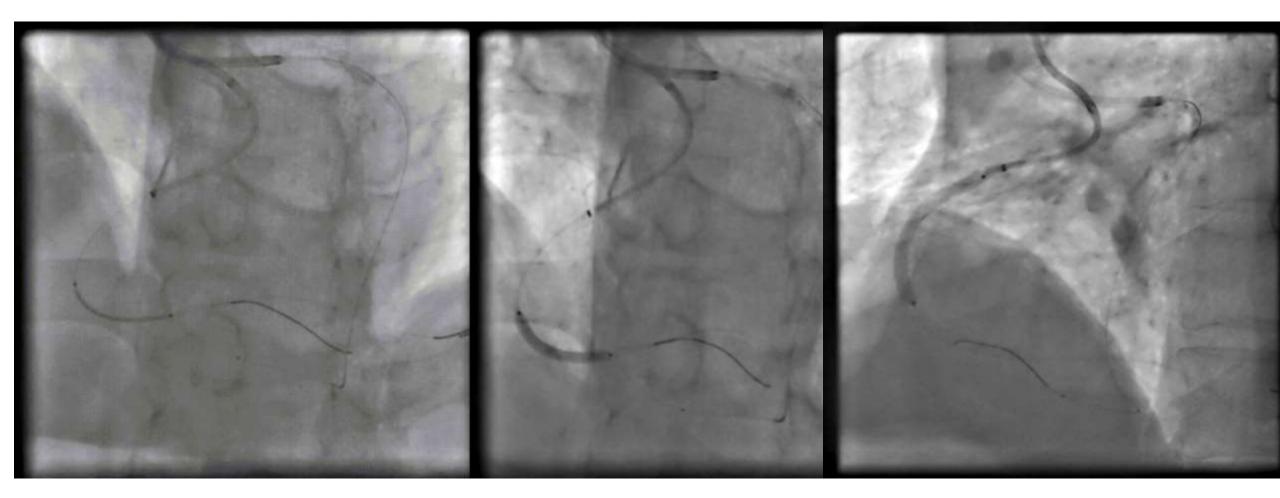
Sending a Runthrough guidewire to the PLB with the Crusade catheter



IMH in the PLB

Wire was in the RCA true lumen

Stenting from d-RCA

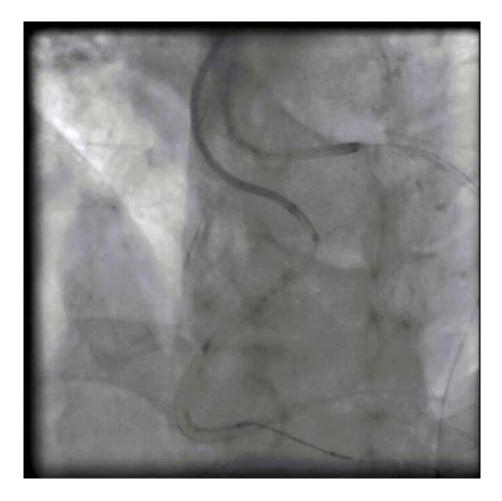


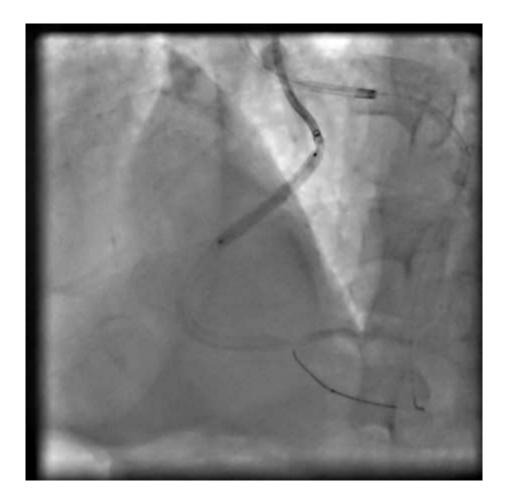
Removed RG-3 back into PDA before DES

First 3.0x 38 mm stent

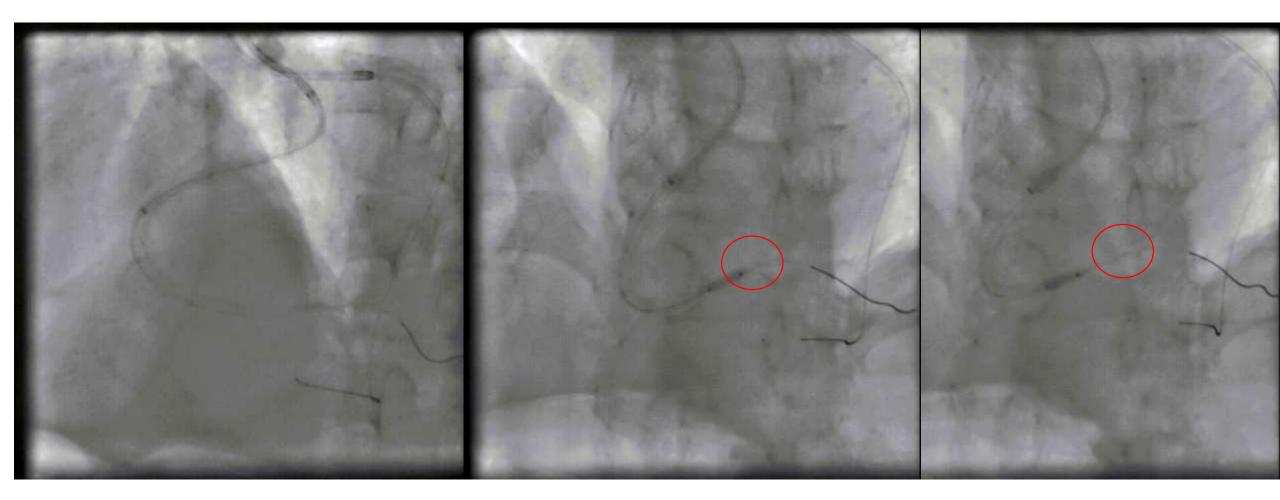
second 3.0x 38 mm stent

Final DES from RCA-os 3.5x28 mm





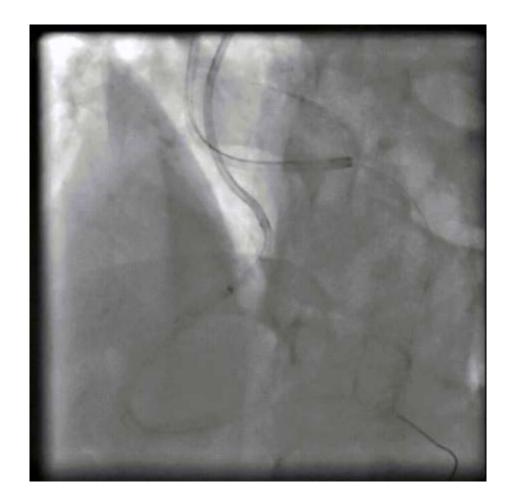
IMH formation in the PLB



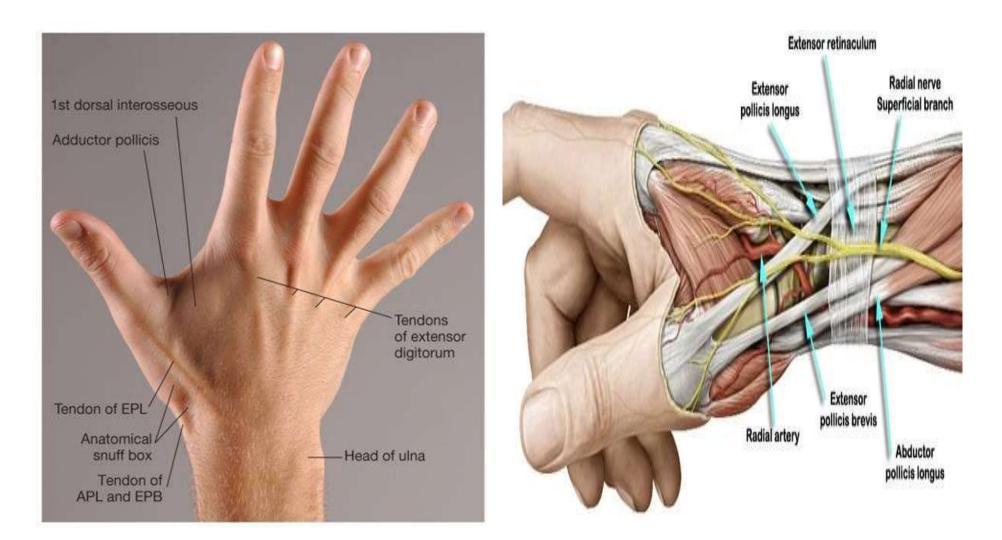
Cutting balloon 2.5x10 mm at 10-12 atm for PL-IMH, Dye stasis subsided after POBA

Final angiography





Coronary PCI done through d-Lt radial access (snuff box) using 6-7 F sheath



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1st Published: 70 patients (Simple PCI), 8 cases (11%) failure access

Left distal transradial access in the anatomical snuffbox for coronary angiography (IdTRA) and interventions (IdTRI)

ABOUT -

Published on 16 May 2017

no comment yet A print article

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Ferdinand KIEMENEIJ¹, MD, PhD;

1. NETHERLANDS

KEYWORDS

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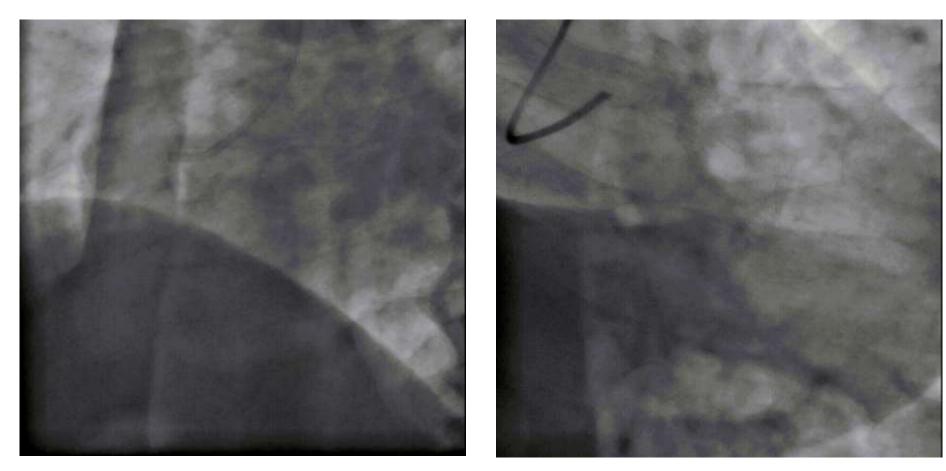
AUTHORS

Kiemeneij F

7F sheath via d-RRA for retrograde EBU4, antegrade via d-LRA Glidesheath 7F AL1-ST, Snuffbox access for re-attempt RCA-CTO (case example)



Second attempt via BRA snuffbox access: 6F IL4 at 2017-12-27 (1.5 mo after first attempt)



CTO at distal RCA

Collaterals from septal branch and d-LCX

Glidesheath Slender

Hydrophilic Coated Introducer Sheath

Glideshea

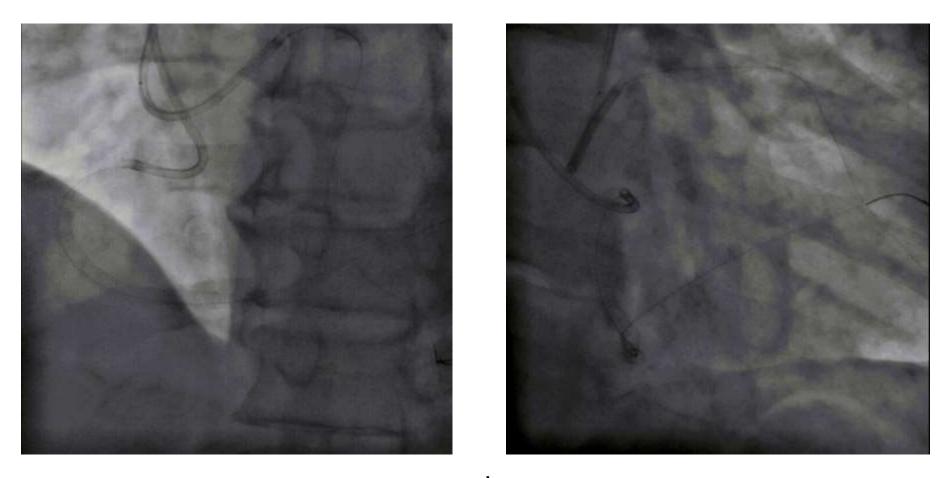




5, 6, and 7Fr sheaths Increase Your Radial Access Options



Final angiography: proc. time 179 min, Fluro. T 82 min, contrast volume 400 ml

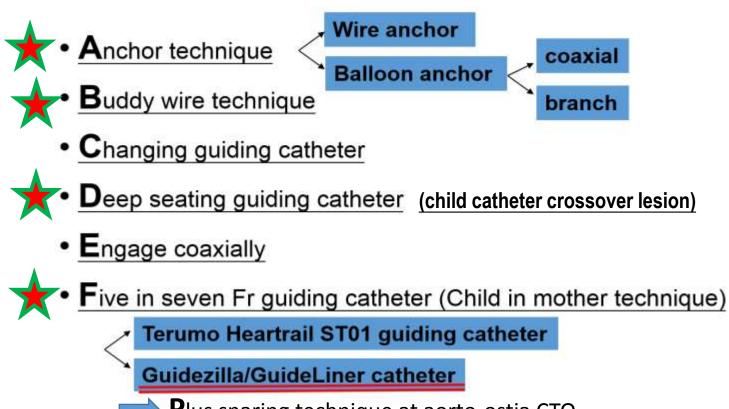


Un-eventful discharge at 2nd day, Doppler study revealed patency of both RA at snuffbox access site

Hemostasis using figure of "8" and saving usual radial and ulnar access for future intervention



Complex PCI Need Advanced Techniques (A. B. C. D. E. F.)



Plus snaring technique at aorto-ostia CTO

Conclusions:

- BRA approach with Glidesheath Slender 7/7 F antegrade & retrograde is feasible, and able to achieve similar results as BFA approach & definitely can reduce access site complications
- D-LRA snuffbox approach may even easier for operator & reduced radiation
- Anomalous RCA with CTO is always be challenging at support, anchoring with 5 in 7 technique did improve co-axial support & DES stent delivery
- Reverse CART making IMH downstream extension, we should cover IMH from PL to RCA, but localized residual IMH at PL with slow flow can be treated efficiently by cutting balloon angioplasty
- Familiar different kind of techniques & instruments with good fundamental skill is the key of success during PCI for CTO lesions

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