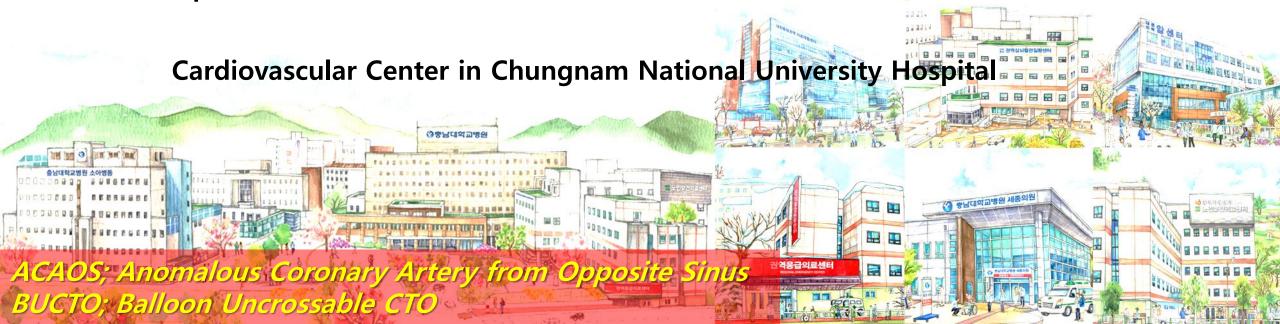


Complex PCI Case with ACAOS, BUCTO & Acute Angulation of Side Branch

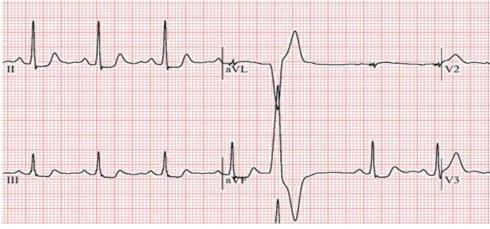
Presenter: Bong-suk Seo, MD

Operator: Jae-Hwan Lee, MD, PhD



Case Summary

- M/64
- Aggravating effort-related chest pain
 - → Unstable angina Ib
- RF; Hypertension, Dyslipidemia, Smoking
- ECG; OK except PVC
- CXR; OK
- TTE; OK
- s-Cr; 0.7 mg/dL
- Treadmill; Positive at stage II

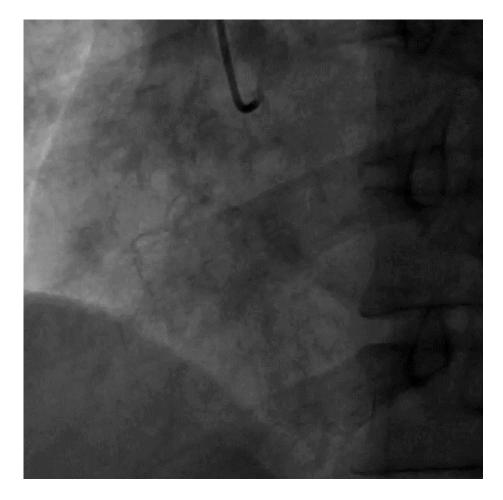


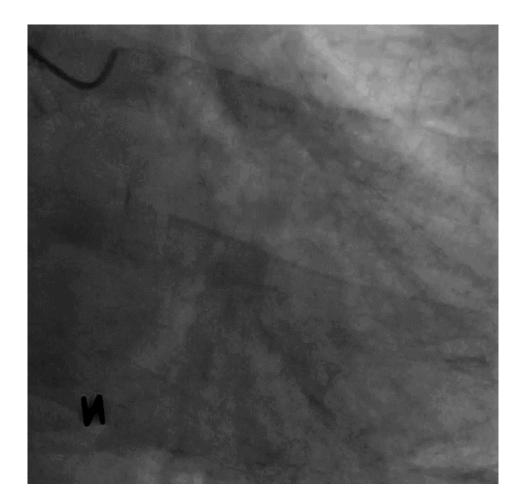
Treadmill stage II; Chest pain with ST depression at inferior leads



Baseline Angiogram (Transradial approach)

ACAOS (RCA originated from LCC)



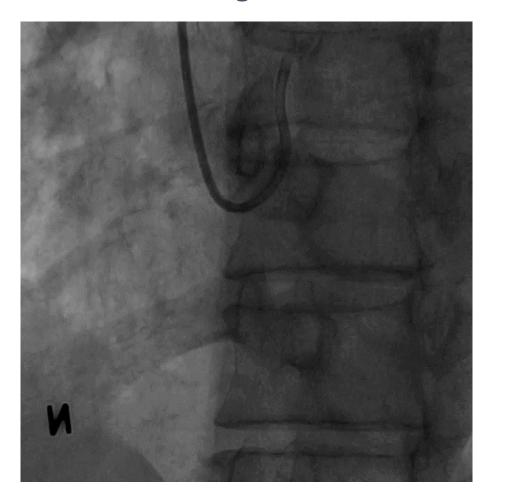




Baseline Angiogram (Transradial approach)

ACAOS (RCA originated from LCC)

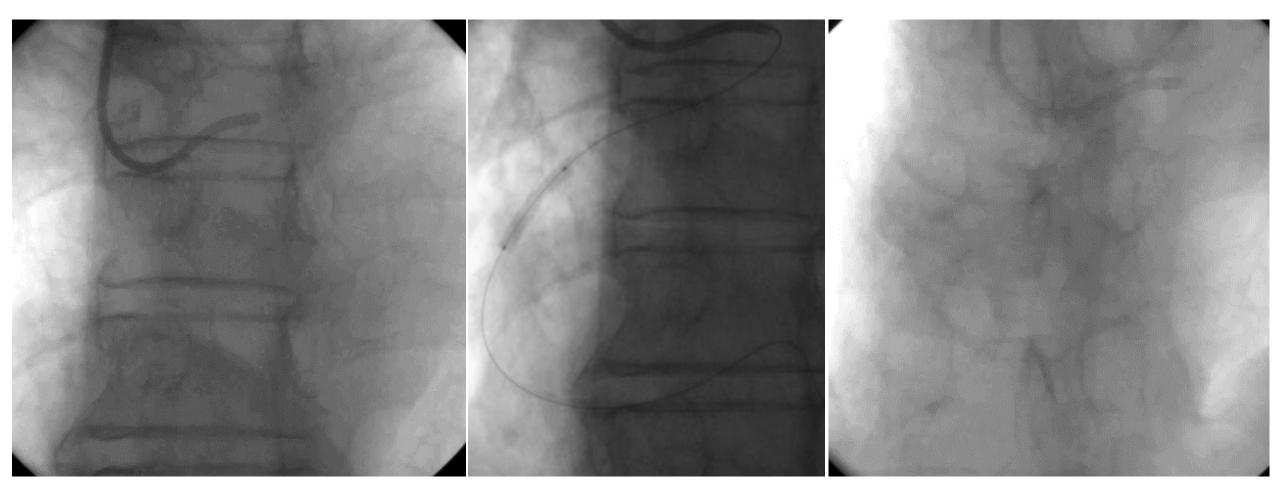






Previous ACAOS Case (RCA originated from LCC)

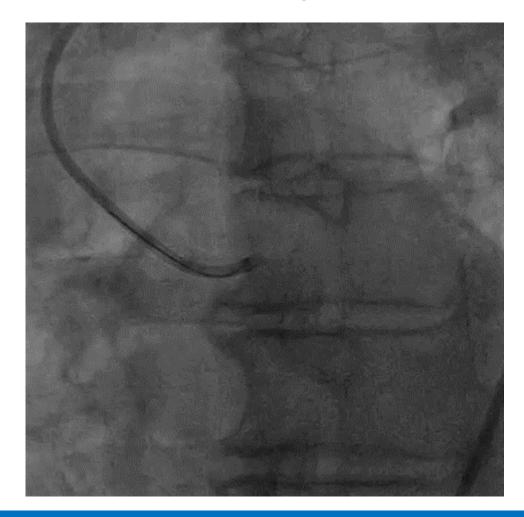
PCI with AL1 guiding catheter

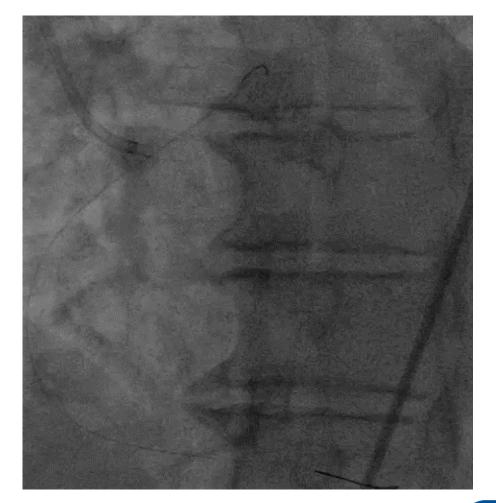




Another ACAOS Case (RCA originated from LCC)

JL + Guidezilla case (Guide Catheter Extension, Mother-child technique)

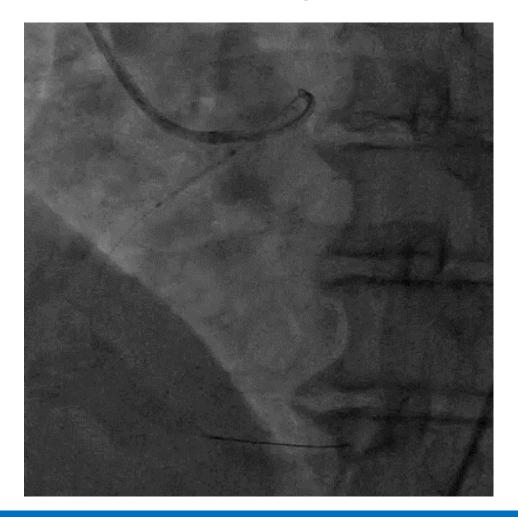


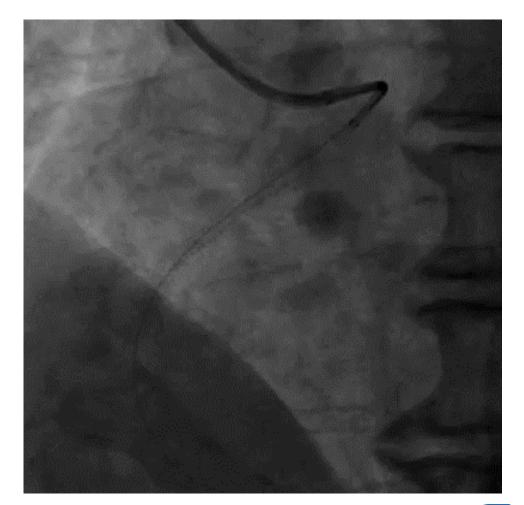




Another ACAOS Case (RCA originated from LCC)

JL + Guidezilla case (Guide Catheter Extension, Mother-child technique)

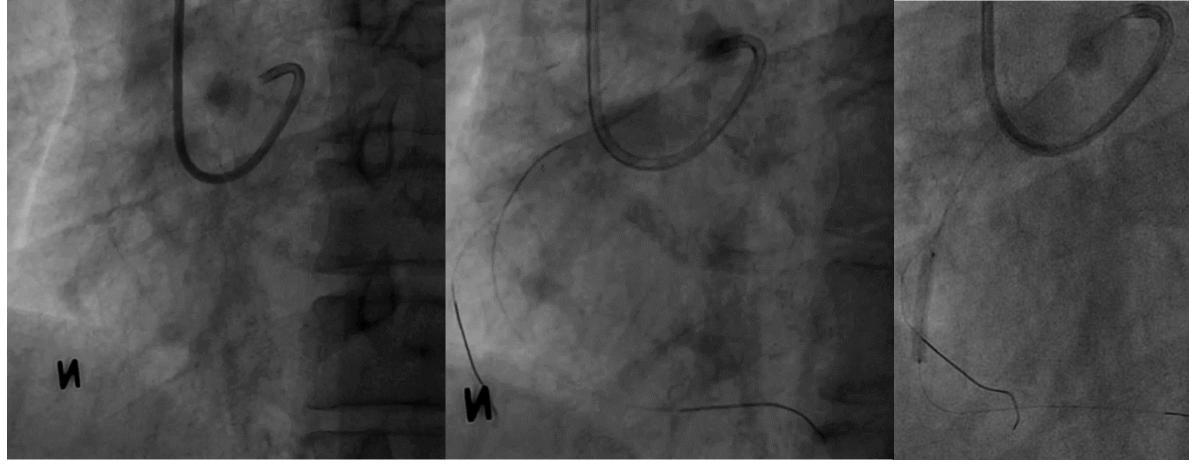






Return to This Case - RCA Intervention

Transradial 7 Fr JL 3.5 2.5 x 20 mm balloon

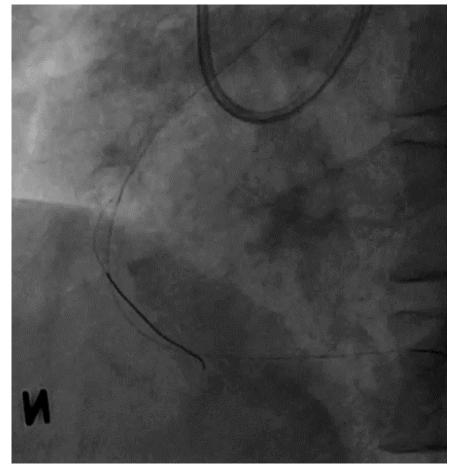


Two GWs to protect RV branch



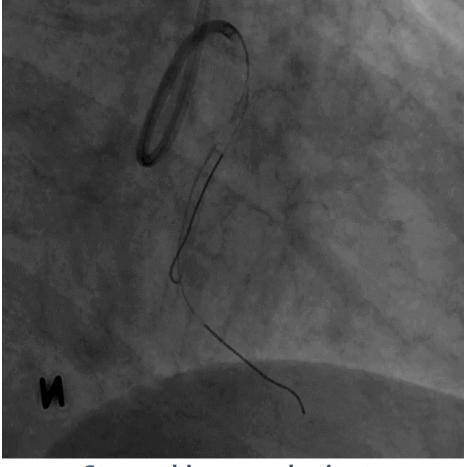
RCA Intervention (Transradial 7 Fr, JL 3.5)

3.0 x 40 mm ORSIRO



Occluded RV branch

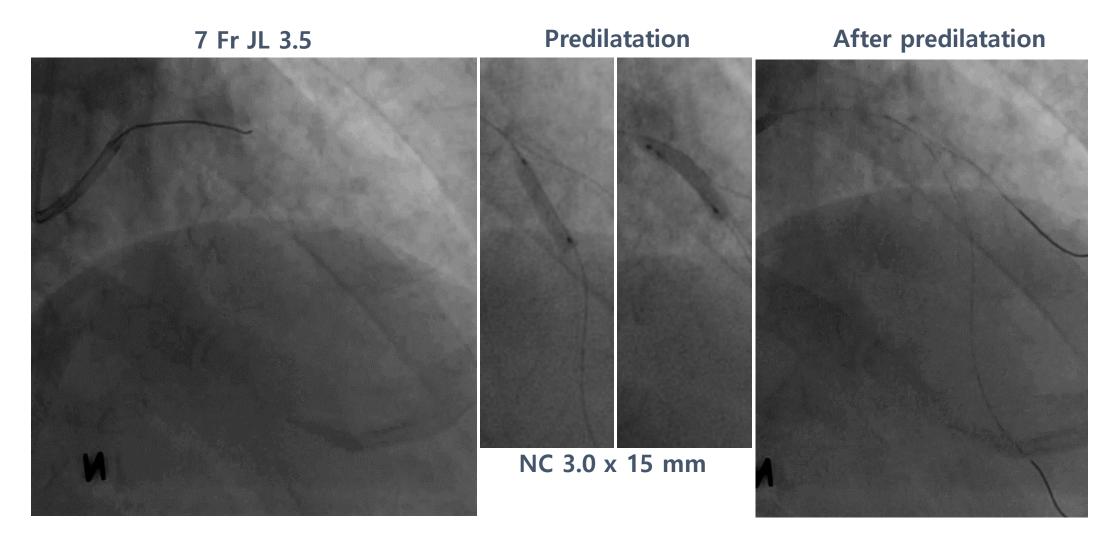
RV branch rewiring failed



Stopped in several minutes



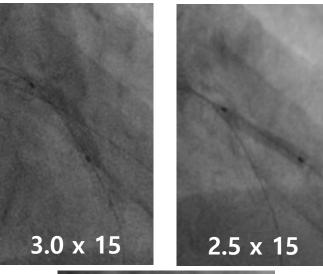
LAD Intervention (Transradial 7 Fr, JL 3.5)



LAD Intervention (Transradial 7 Fr, JL 3.5)

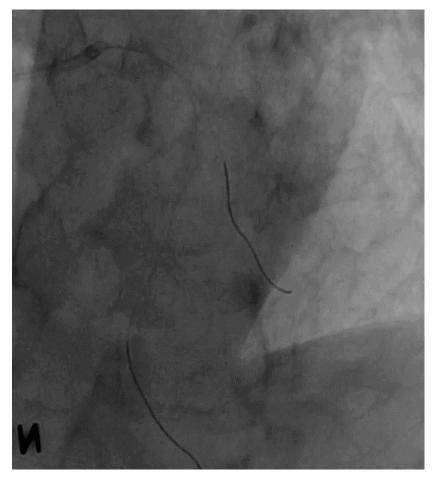
ORSIRO 3.0 x 26 mm

In-stent & Side branch



KB 3.0 + 2.5

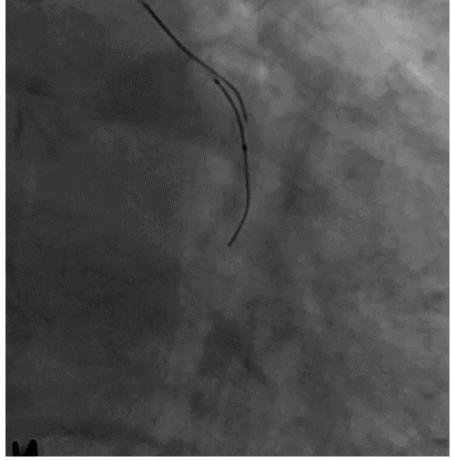
Final LAD





LCx CTO Intervention (Transradial 7 Fr, JL 3.5)

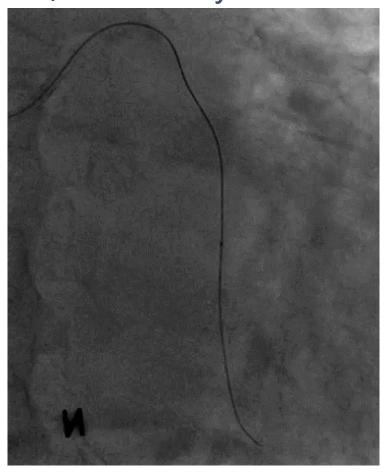
Finecross + Fielder XTR



Easy passage



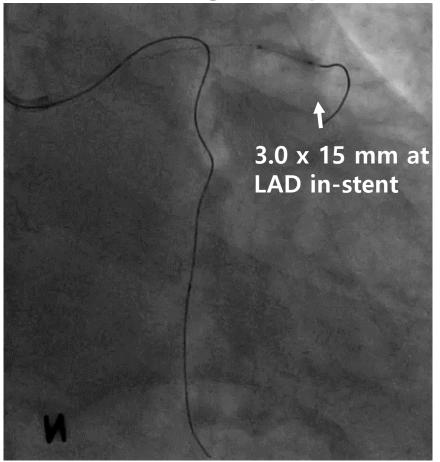
But, failed delivery of Finecross





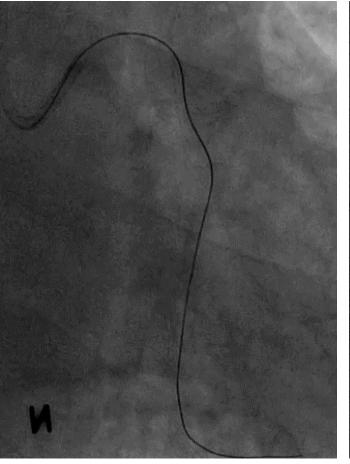
LCx CTO Intervention (JL 3.5 → EBU 3.5)

Anchoring technique



Failed delivery

Guiding catheter changed to EBU 3.5

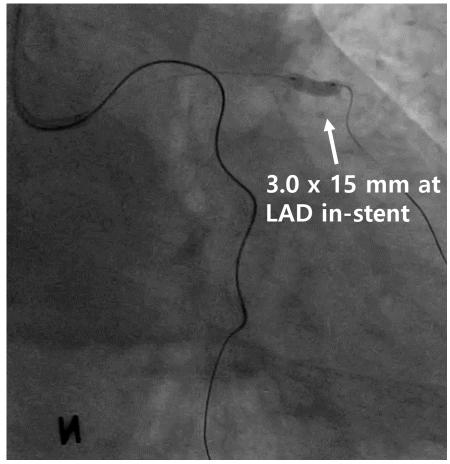


Failed Finecross & Corsair delivery



Balloon Uncrossable CTO

EBU + Anchoring + Corsair



Failed Corsair delivery

Overcoming BU CTO What is your next option?

Augumented guide support

Transfemoral > Transradial

Deep engagement

Bigger sheath

Mother-child technique using a

Guidezilla / Guideliner

Anchor wire/ Buddy wire

Anchor balloon ...

Lesion Modification

Microcatheter (Finecross, Corsair, Tornus...)

Balloon assisted microdissection (BAM)

Intentional balloon rupture

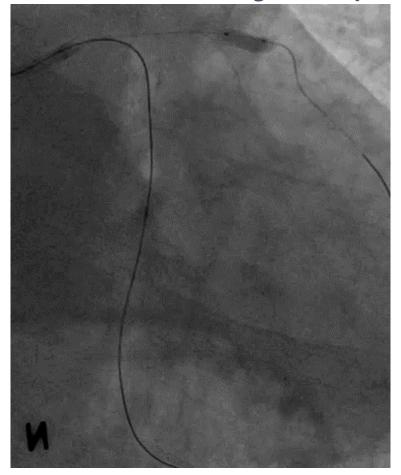
Rotablation

Retrograde approach ...



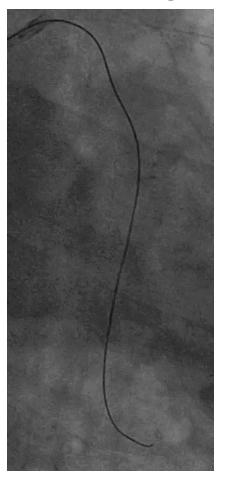
Balloon-Assisted Microdissection (BAM)

7 Fr EBU + Anchoring technique



Sapphire II 1.0 x 10 mm

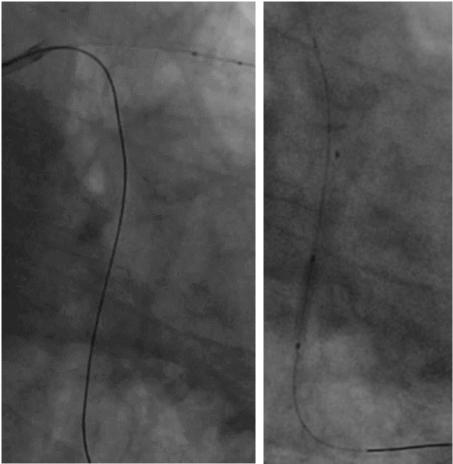
GW exchange



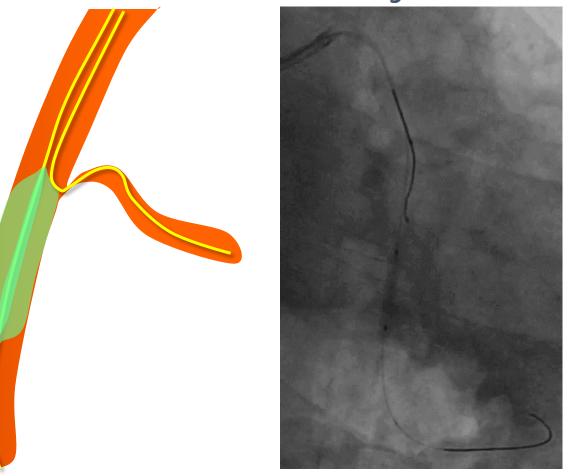


Side Branch Wiring

Balloon predilatation



Balloon-assited SB wiring



NC 2.5 x 15 mm



Side Branch Wiring

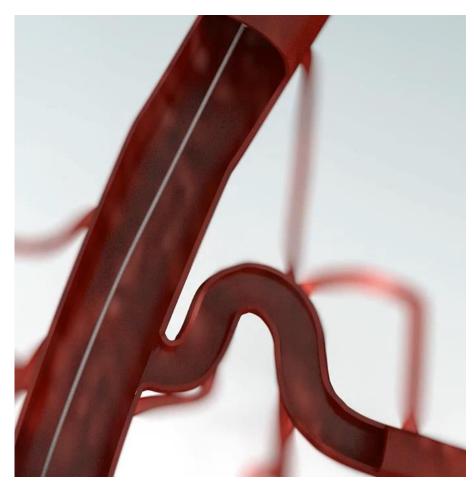
Still difficult Still difficult

Your Next Option?



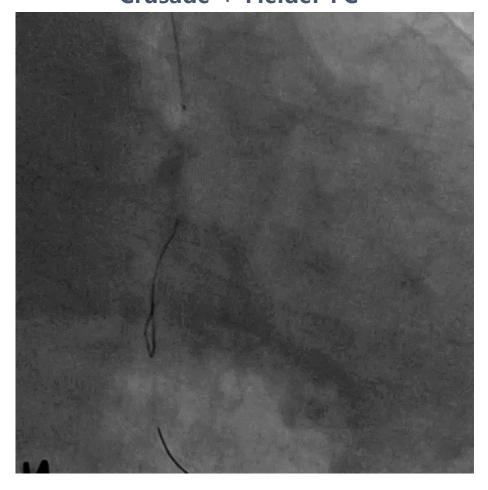


Reverse Wire Technique



Video From ASAHI INTECC

Crusade + Fielder FC

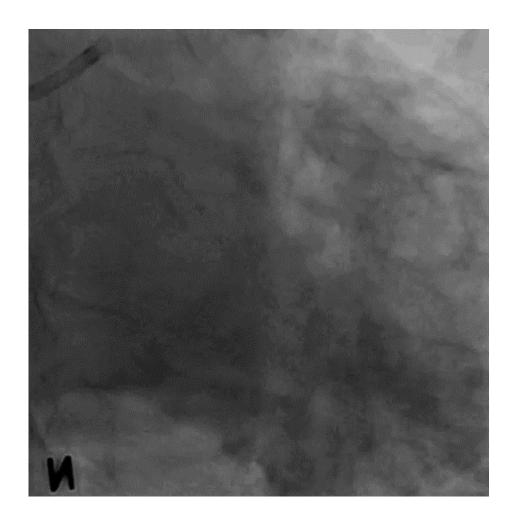


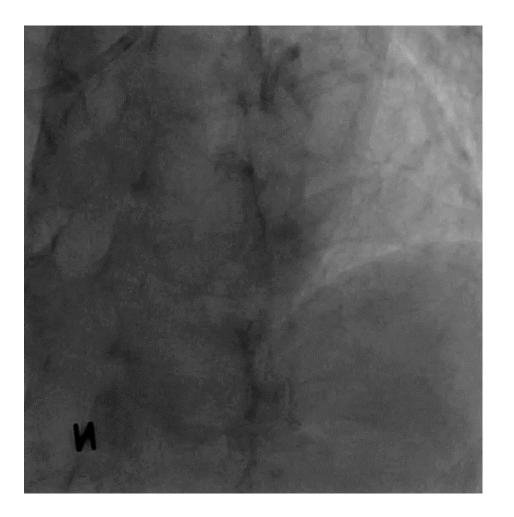


Stenting & Postdilatation



Final Angiogram







Conclusion

- I. Engagement of ACAOS (RCA originated from LCC)
 - ✓ JL >> AL1
 - ✓ Guide catheter extension (Guidezilla / Guideliner)
- II. Balloon Uncrossable CTO
 - **✓** Bigger sheath
 - ✓ Anchor balloon technique
 - ✓ Microcatheter (Finecros, Corsair, Crusade)
 - ✓ Balloon assisted microdissection (BAM)
- III. Acute angulation of side branch
 - ✓ Balloon-assisted wire technique
 - ✓ Reversed wire technique



Thanks for your attention

