

The challenge Antegrade LAD CTO PCI guided by Ipsilateral Collaterals

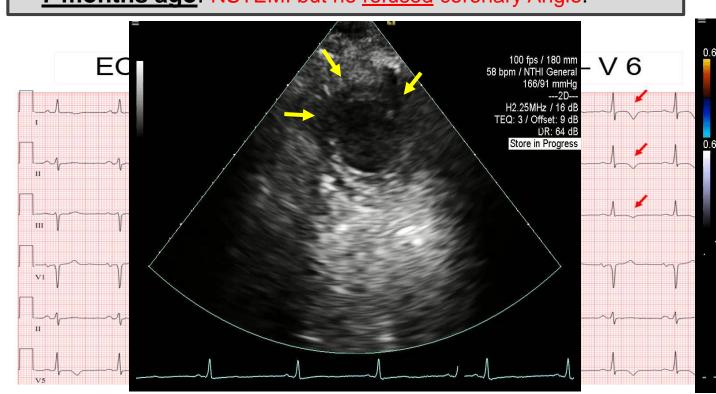


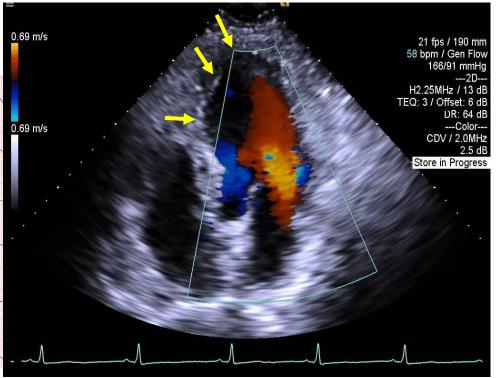
Case History

- 75 y/o male patient.
- NSTEMI(Palpitation, CP, SOB).
- h/o paroxysmal AF & TIA one year ago.
- <u>CAD risk factors</u>: NIDDM, HTN, Ex-smoker.
- **7 months ago**: NSTEMI but he <u>refused</u> coronary Angio.

Echocardiography

- EF 43 %, LV DD grade I, LVH, Sclerosed AV, mild MR,.
- SWMA: hypokinesia of mid-apical segments of inferoseptum, anterior wall & apex.







CTO LAD + tight mid-RCA lesion (2 vessel CAD + Diabetes)

After Heart Team Discussion And Multidisciplinary Meeting With The Family

Patient Refused CABG

Our Strategy
(PCI Road Map)

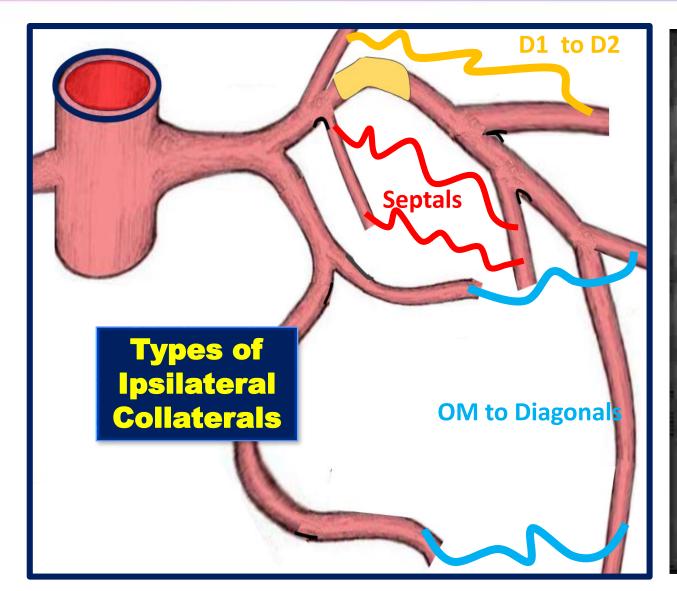
Single Guiding-Catheter Strategy

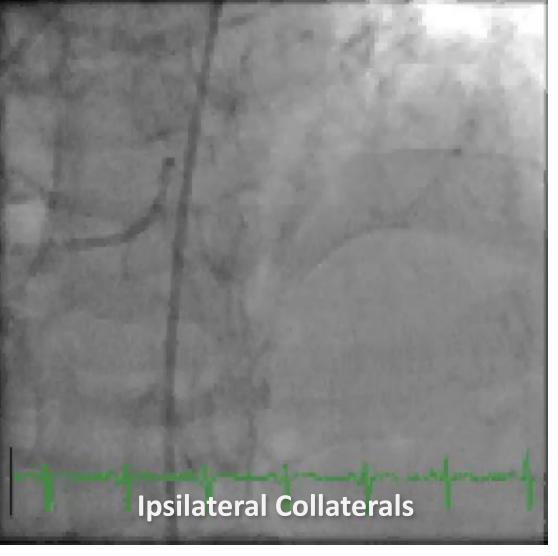
(No Dual Injection)

- Antegrade approach guided by <u>Ipsilateral</u> collaterals.
- Escalating wire strategy (Soft up to -- Stiff).
- Escalating balloon dilatation.
- DES stent.



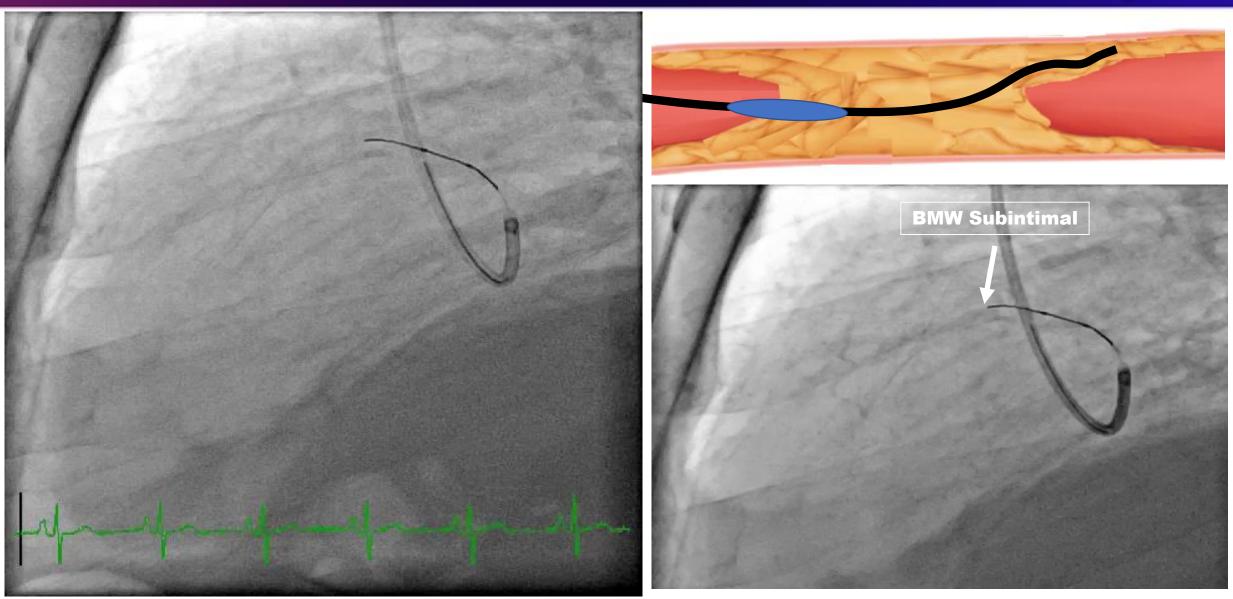
Ipsilateral Collaterals







Wire In Subintimal Space





PCR Wire In Subintimal Space?

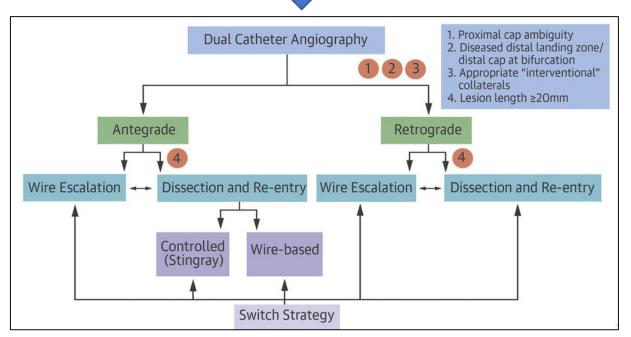
If the guidewire goes subintimally, either:

1- Parallel wire technique

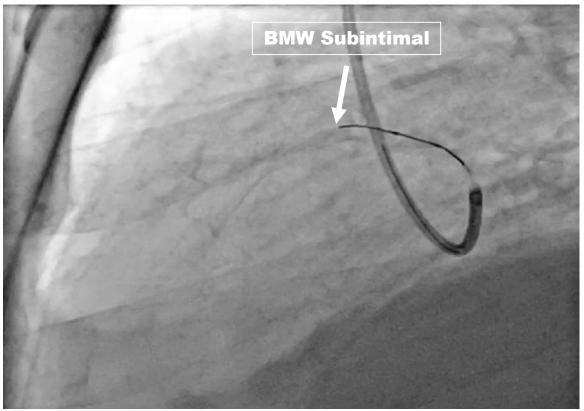
2- See-saw technique

Otherwise, Antegrade Dissection Reentry can be attempted.

Hybrid Algorithm





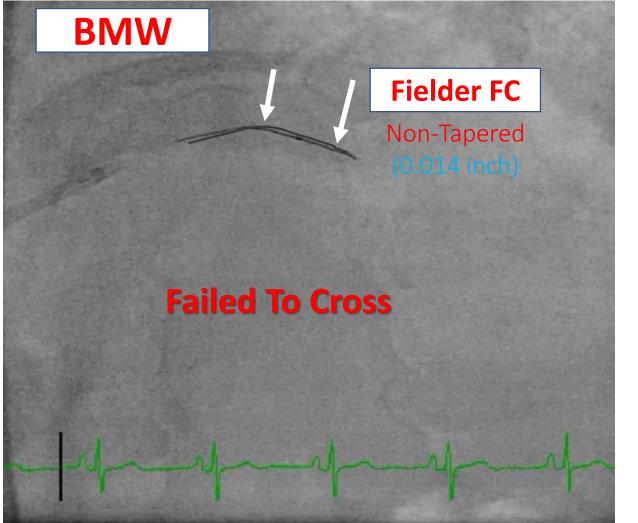


Maeremans et al., J Am Coll Cardiol 2016;68:1958–70

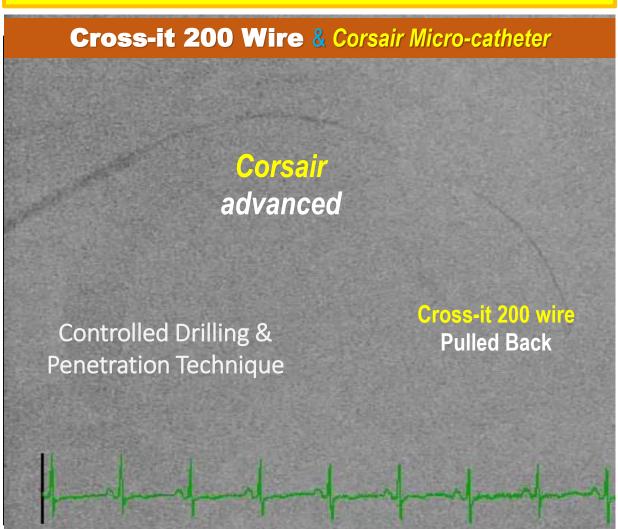


Parallel Wire Technique

2nd wire Fielder FC wire with Small Balloon; then with corsair micro-catheter



Successful Crossed To Distal LAD





Wire Exchange

While We Pullback The Corsair

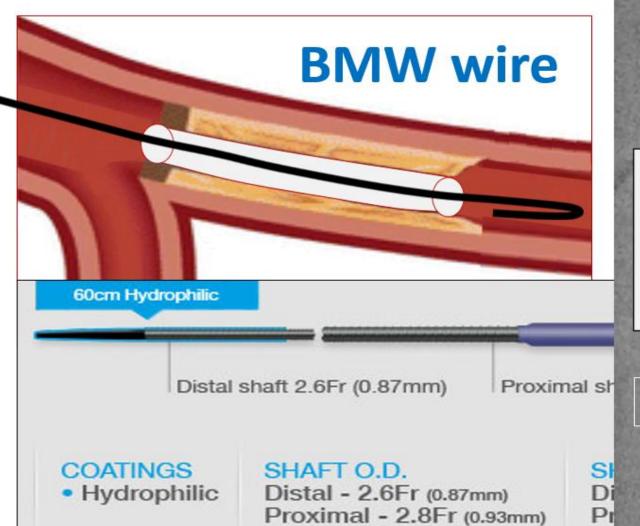


BMW Wire also Pulled With Microcatheter by Assistant?

PCR

This what I did?

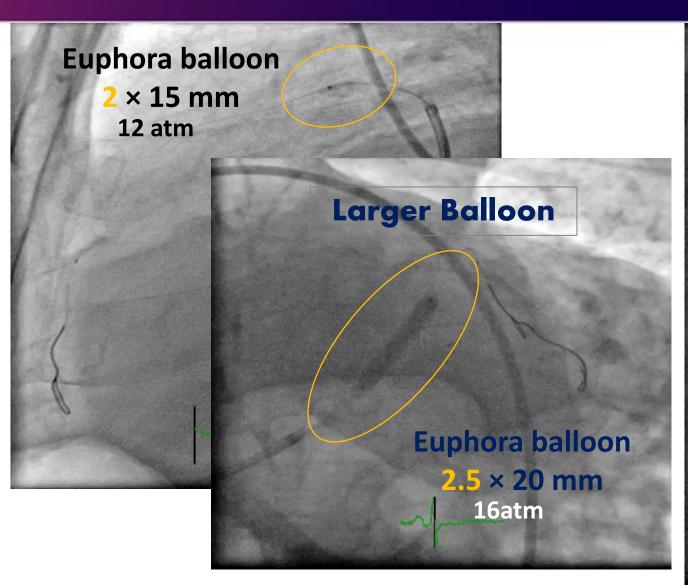
Knuckle Wire Technique

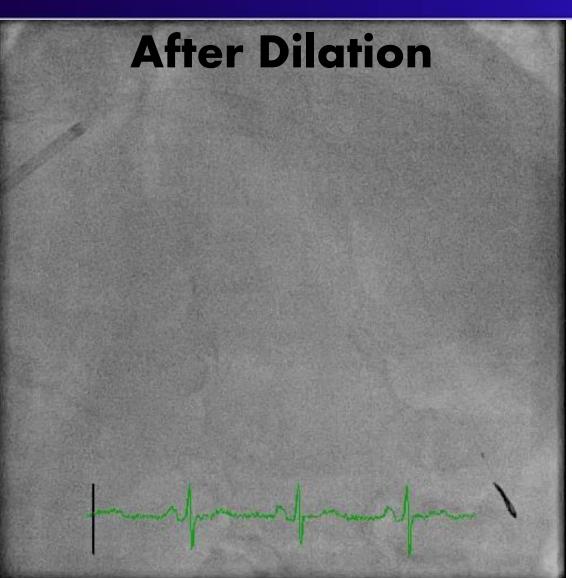


Microcatheter Dilates The Microchannel **Corsair Outer Diameter** Tip: 0.42 mm. Distal: 0.87 mm (2.6 Fr). Proximal: 0.93 mm (2.8 Fr). That the wire Crossed To True Lumen distally **Always Cross with the Microcatheter**



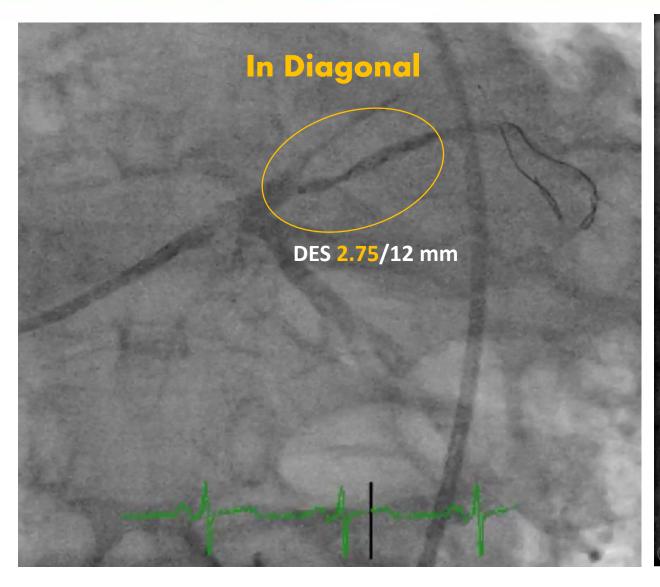
Balloon dilatation

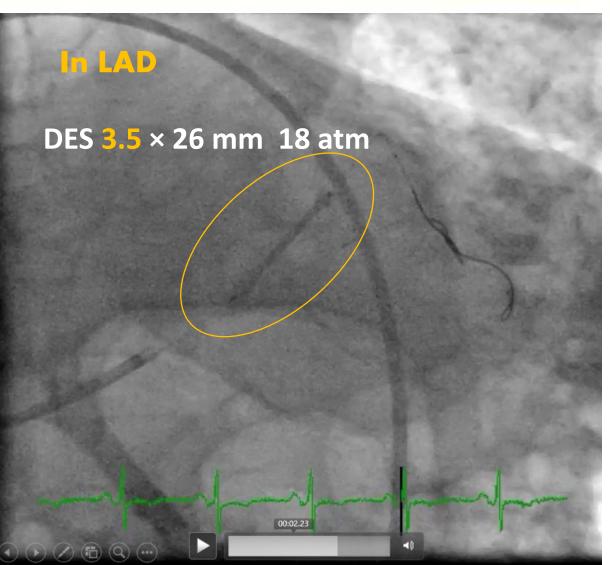






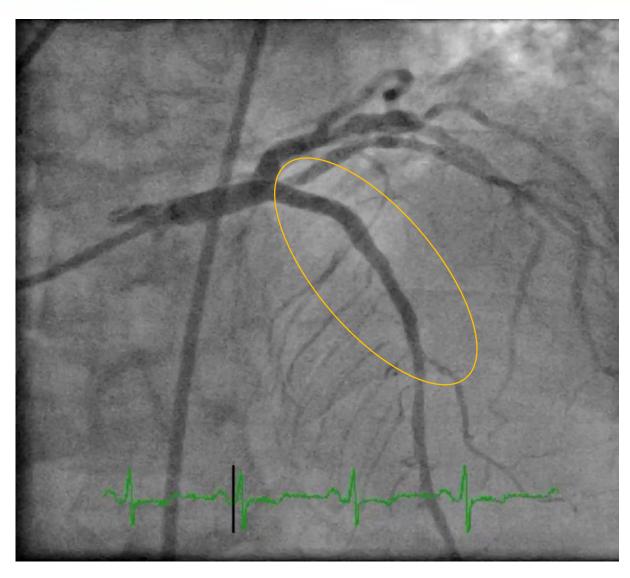
Stent Deployment

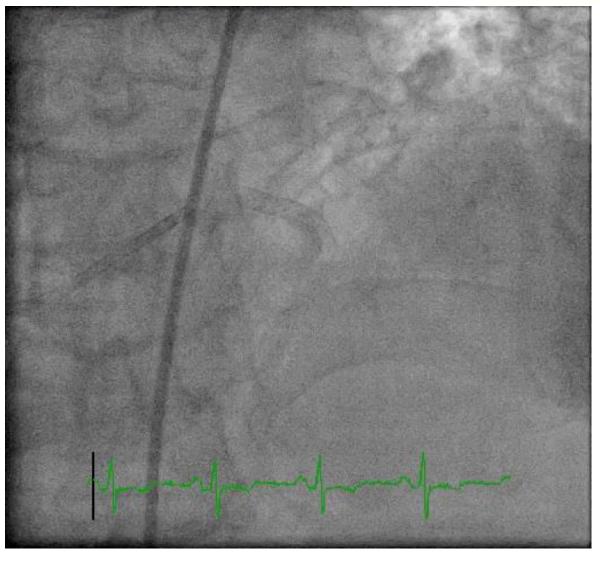






Final Results







TakeTHAME YOUSsage

For Your Attention

Dual Injection Is The Standard Of Care For Appropriate and safe CTO Management

