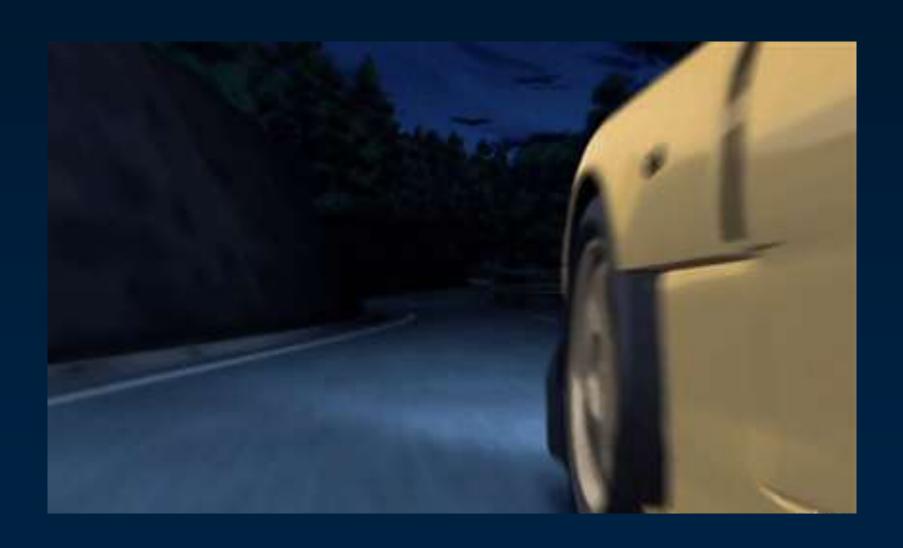
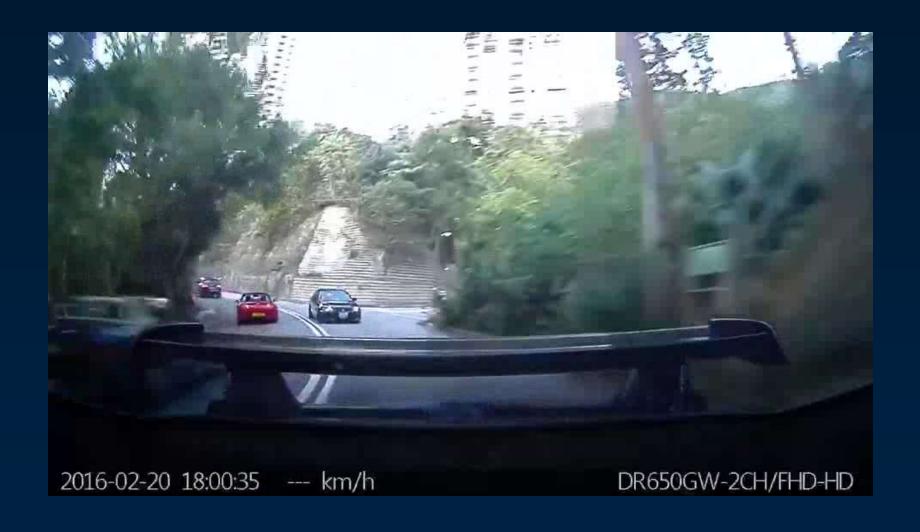


Fast & Furious

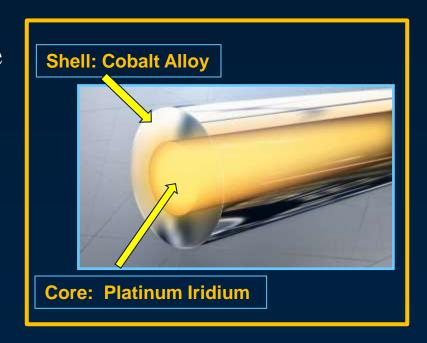


Quality of gear makes a difference!



Core Wire Technology

- Core Wire Technology, used in Resolute OnyxTM, enables thinner struts without compromise in radiopacity and overall structural strength
- Denser, more radiopaque inner core material allows for improved visibility
- Cobalt alloy shell retains the structural strength



Continuous Sinusoidal Technology - CST

CST implemented with the Resolute Integrity Platform





- CST is created from a single wire shaped into a sinusoid, helically wrapped and laser fused allowing for a continuous range of motion
 - This continuous flex improves deliverability and conformability compared to laser-cut stents





Core Wire and Continuous Sinusoidal Technologies

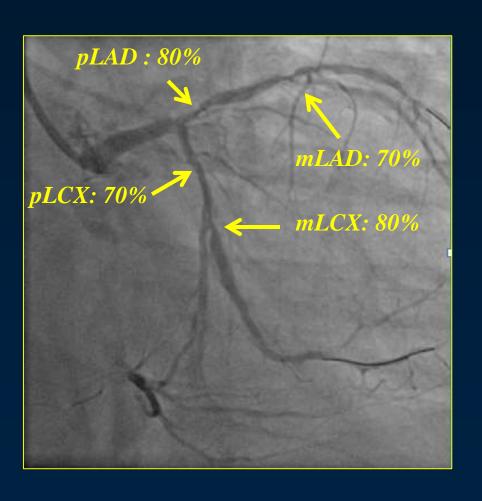
• The combination of CST and Core Wire Technologies allows for improved deliverability and conformability

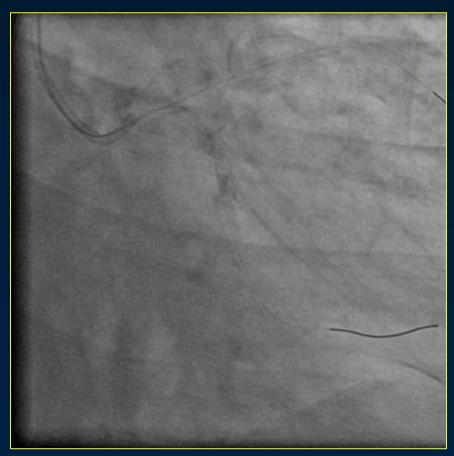


Case 1

- Patient: M/72
- IDDM, hypertension
- Chronic AF on Eliqus
- Syncope and CT coronary showed severe triple vessel disease

Coronary Angiogram



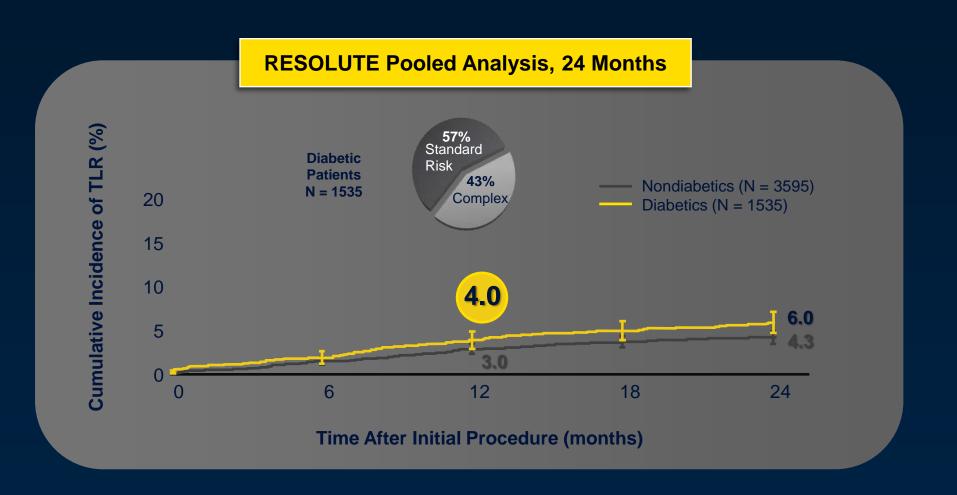


Coronary Angiogram





Low Rates in Patients with Diabetes Despite Higher Comorbidities



Resolute[™] DES Data Allowed for FDA Approval for Patients with <u>Diabetes*</u>

Robust analysis led to first-of-its-kind FDA approval for patients with diabetes:

- Prospective, powered diabetes analysis designed in close collaboration with FDA
- Independent analysis performed by Harvard Clinical Research Institute (HCRI)

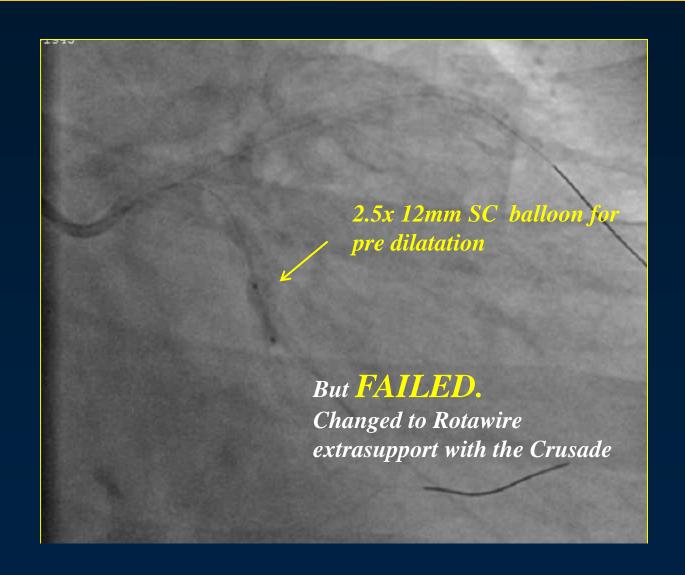


Lesion Preparation for mLCX



Use 2.5 x 12mm SC Balloon to pre dilate the calcified stenosis

Lesion Preparation for mLCX



Temporary Pacing wire

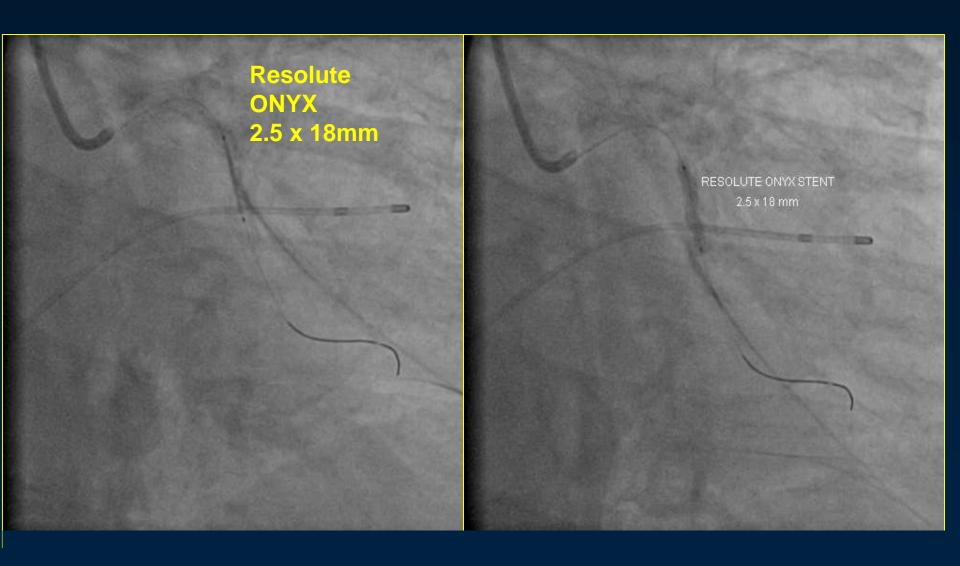
Temporary pacing wire inserted to cover the slow AF & rotablation



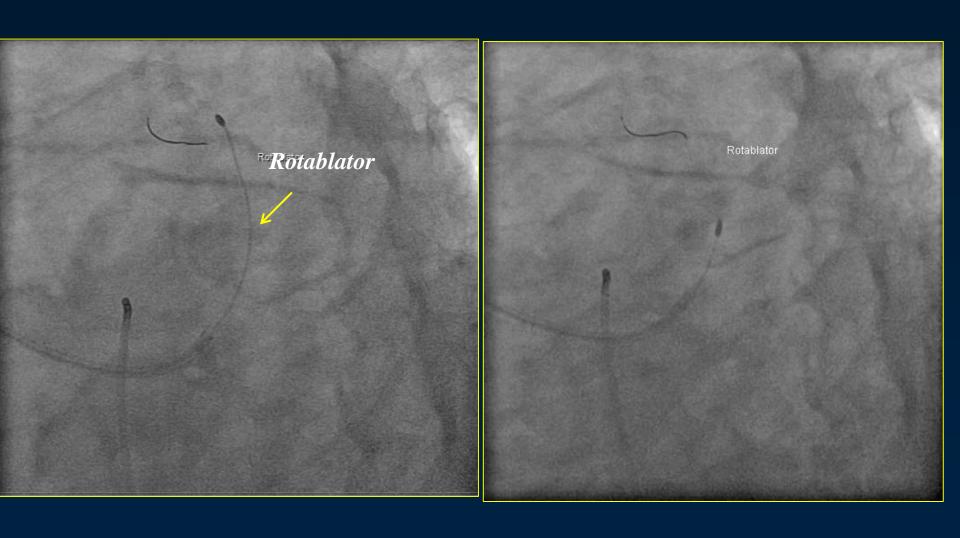
Rotablator at LCX, burr at 170,000rpm



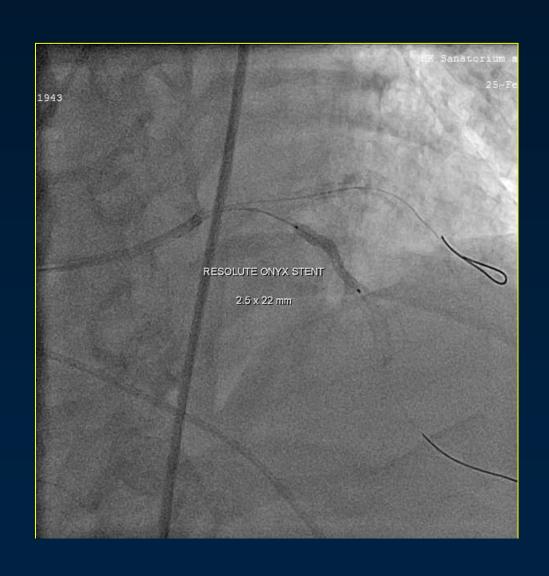
mLCX Stenting crossing torturous proximal LCX smoothly



Rotablator at LAD, burr at 150000rpm



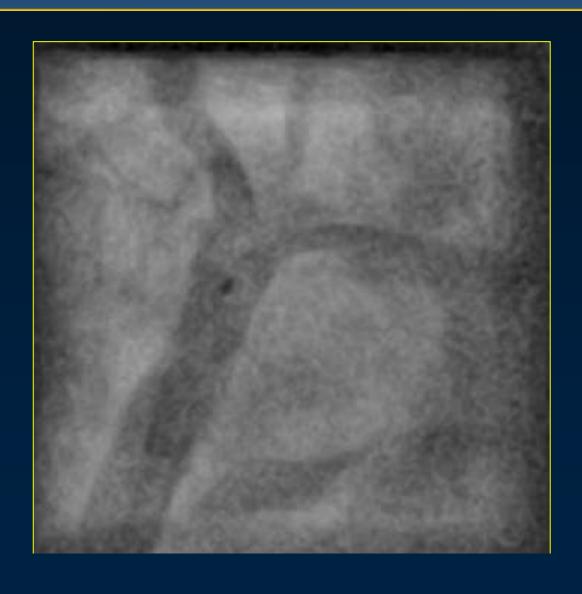
Stenting at mLAD Resolute Onyx 2.5x22mm



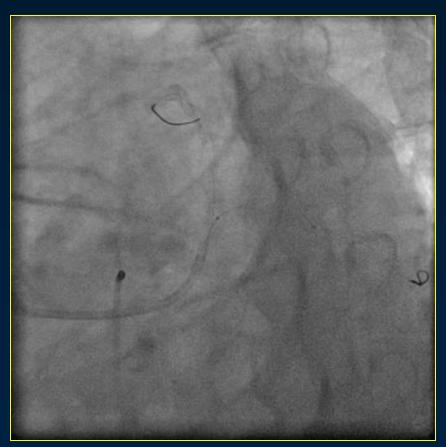
Stenting pLAD Resolute Onyx 3.0x22mm

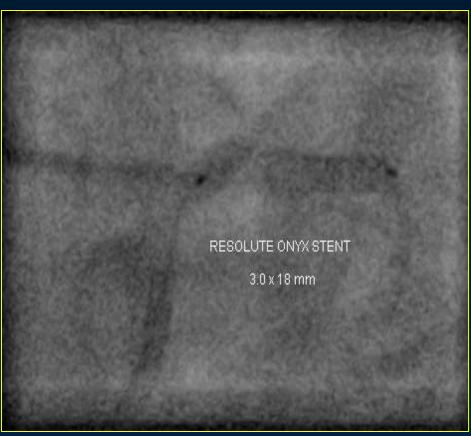


Stenting at pLCX Resolute Onyx 3.0x18mm



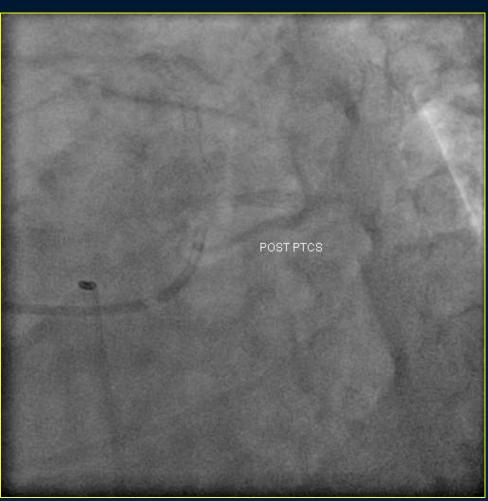
Stenting at pLCX Resolute Onyx 3.0x18mm



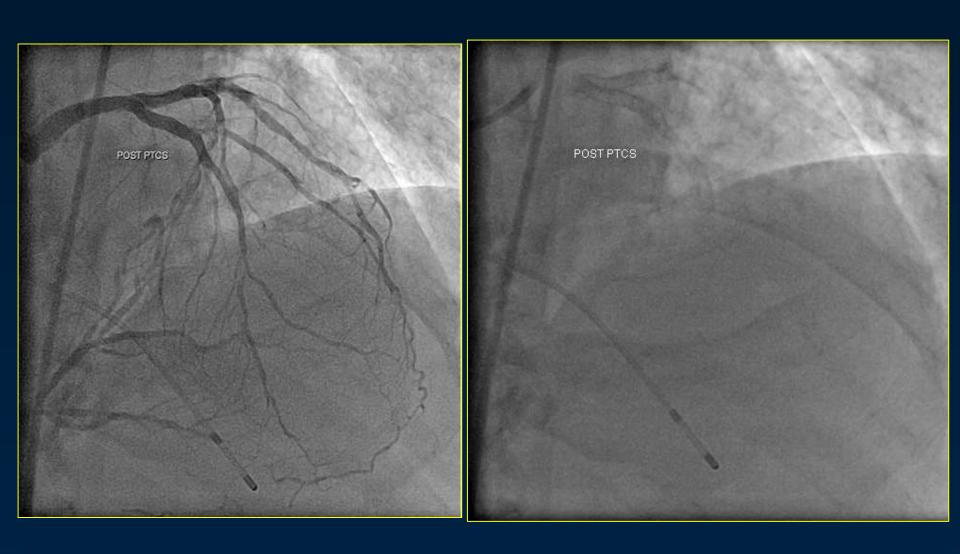


Result





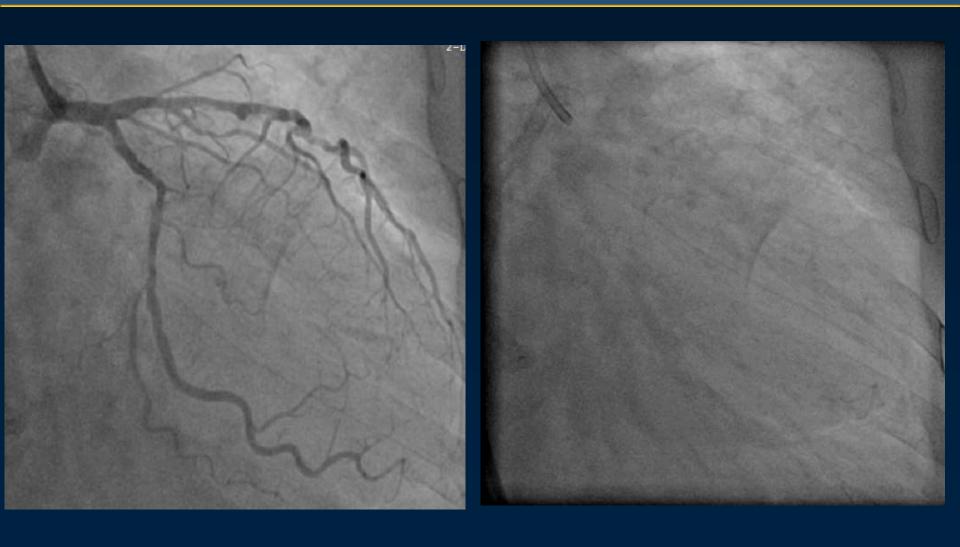
Result



Case 2

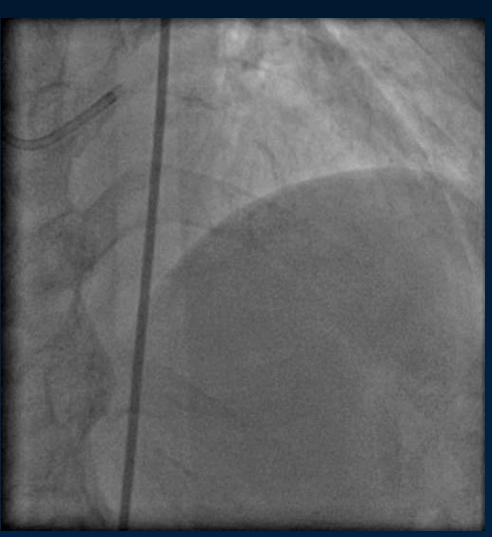
- Patient: F/58
- RA, on steroid, MTX
- Recent inferior MI
- Primary PCI to RCA done about 3 weeks ago
- Severe triple vessel disease
- Staged II PCI today

Coronary Angiogram



Coronary Angiogram

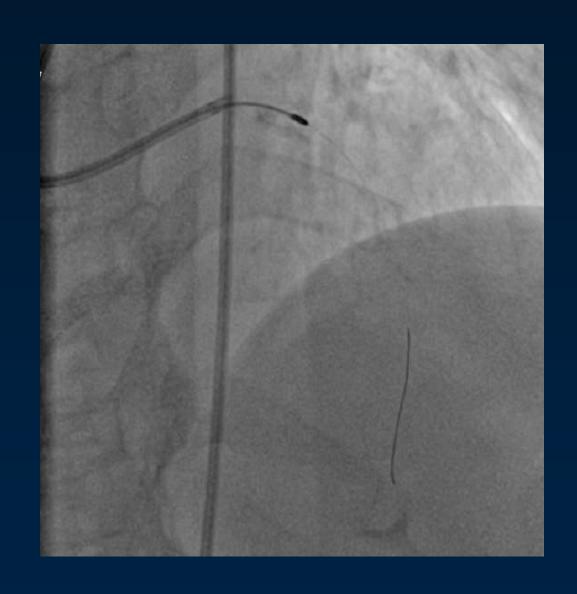




Procedure

- 6F EBU 3.5 guiding
- PTCA to LAD-> PTCA/S to dLAD, mLAD-> pLAD; dLCX-> pLCX
- Right femoral artery approach
- IV Diazemuls 3mg, Primperan 10mg, Pethidine 10mg
- IA Heparin, 2,000 units
- IC Heparin 2,000 units at start of PCI + 1,000units at the midst of PCI
- IV Protamine 10mg at termination of PCI

Rotablator at LAD, 1.25 mm burr at 170,000rpm



PTCA:D2 with 2.0mm Balloon



Stenting dLAD Resolute Onyx 2.25x26mm



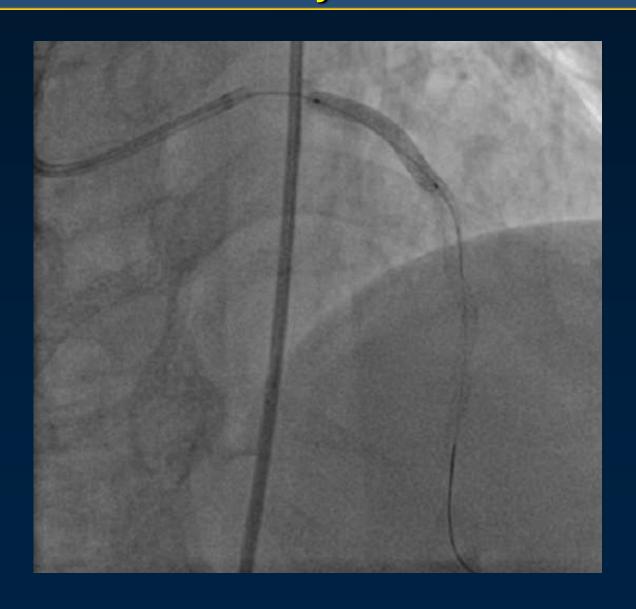


Stenting mLAD Resolute Onyx 2.75x30mm



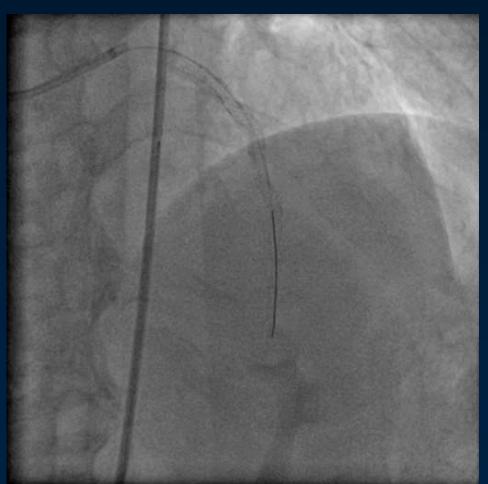


Stenting pLAD Resolute Onyx 3.0x22mm



Result

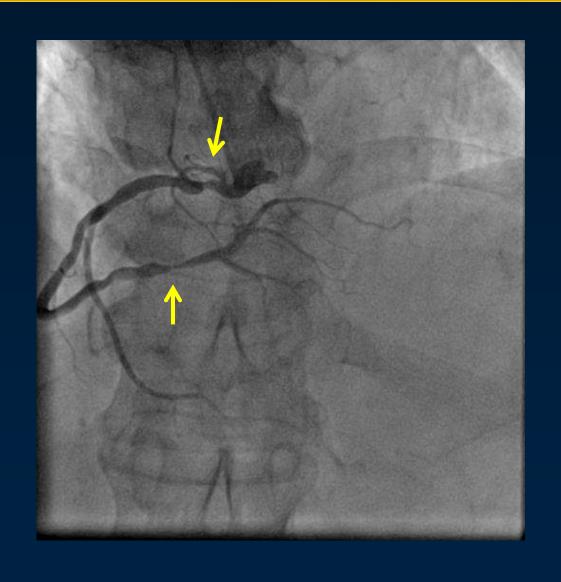




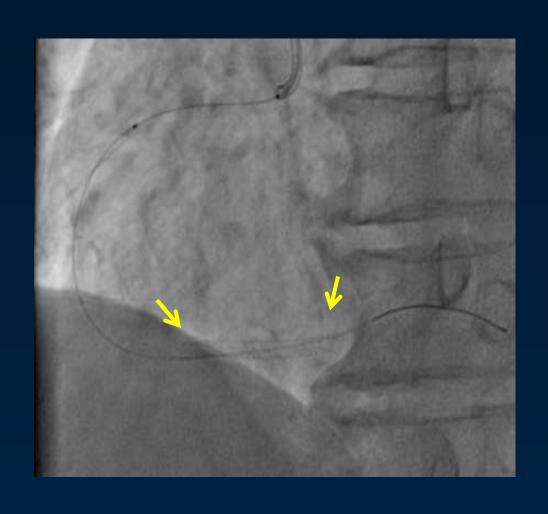
Case 3

- Patient: M/77
- Angina
- CT Coro was strongly positive

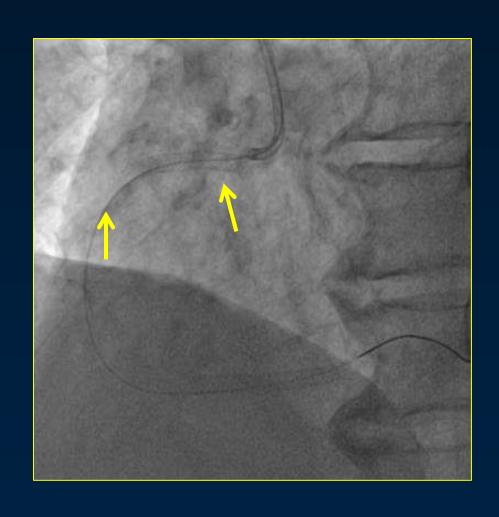
Coronary Angiogram



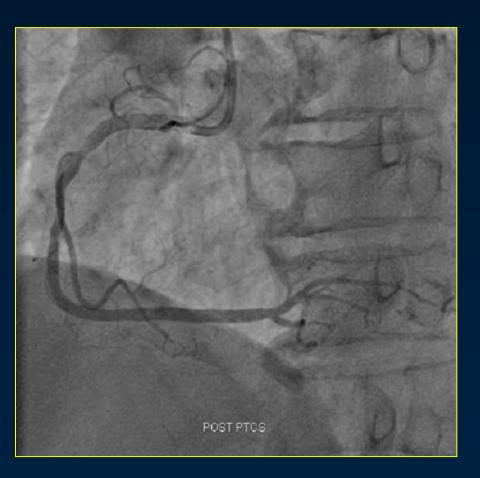
Stenting at dRCA Resolute Onyx 2.75x30mm

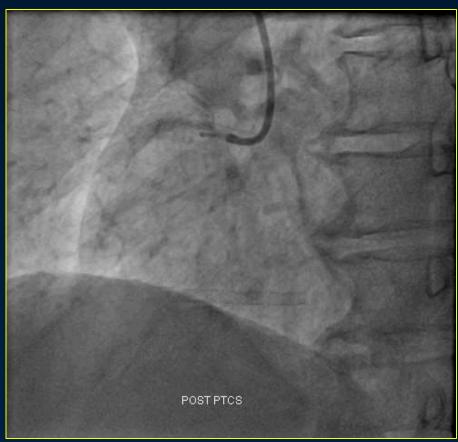


Stenting at pRCA Resolute Integrity 3.0 x 26mm



Result





Result





Case 4

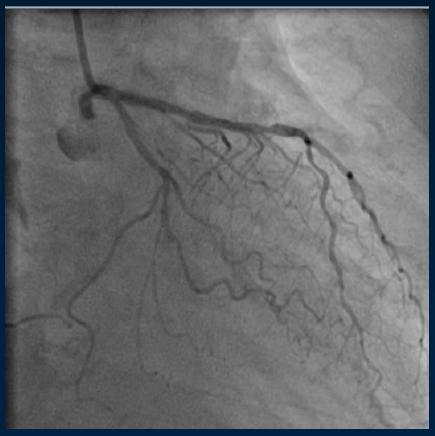
F/84 with history of NIDDM, HT, CAD, on OMT.

Admitted for acute pulmonary edema with resuscitated cardiac arrest. Stabilized with ventilator care.

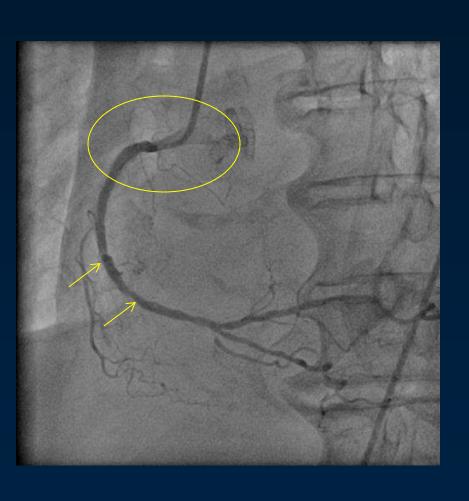
Coro +/- PCI the next day

Coronary Angiogram



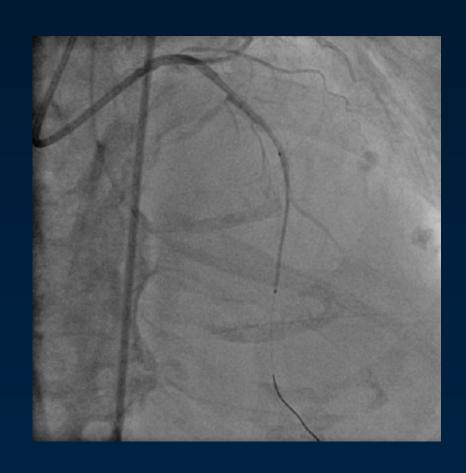


Coronary Angiogram

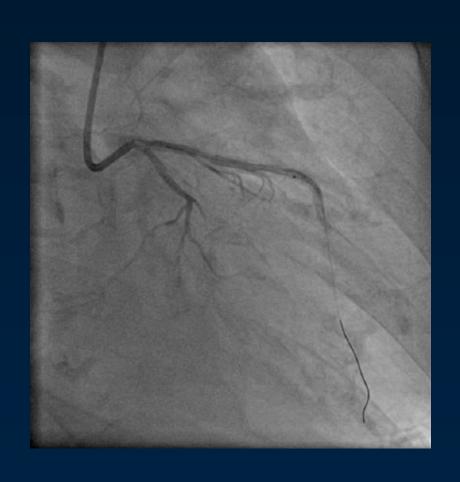




Stenting at mLAD Resolute Onyx 2.25x34mm



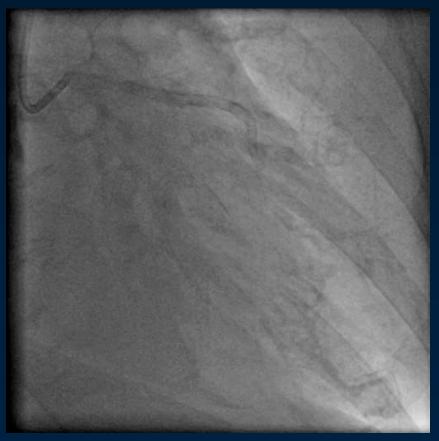
Stenting at pLAD Resolute Onyx2.75x34mm



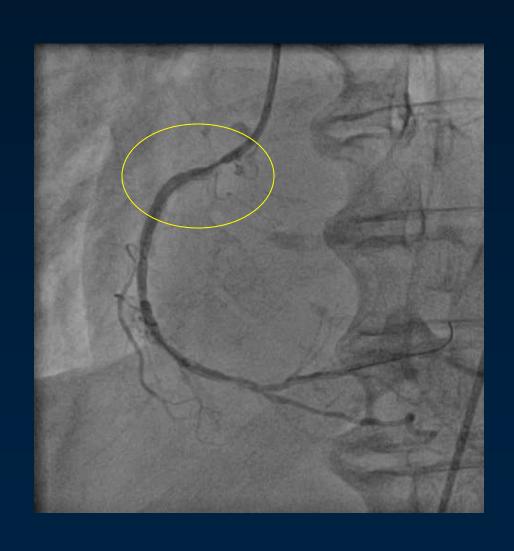


Final Result





Next: RCA



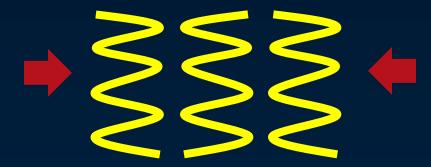
Core Wire Technology Enables Thinner Struts with No Compromise to Longitudinal Strength

Peak-to-peak stent designs provide **longitudinal compression resistance***†

Resolute Onyx[™] platform



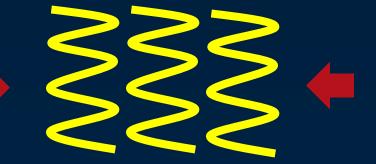
Crowns align to provide resistive strength against compression (peak-to-peak)



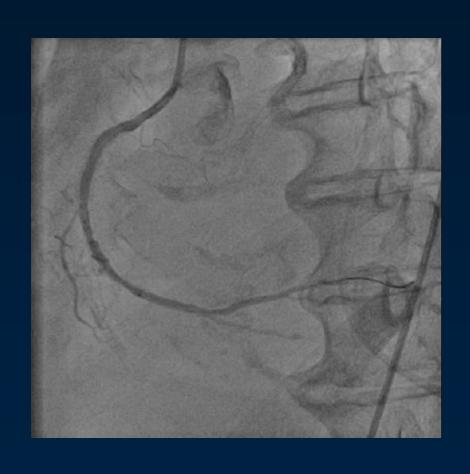
Promus Premier[™] platform



Crowns are not aligned, which allows them to compress (offset peak-to-peak)



Stenting at mRCA 3.0x26mm

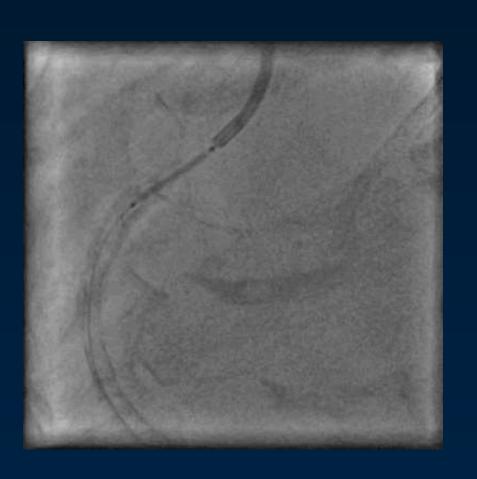




Stenting at mRCA 3.5x38mm



Stenting at pRCA 4.0x15mm





Final Result



Stent Over Expansion Maximum Diameter Chart

Onyx	Stent Diameter (mm)	2.00-2.50	2.75-3.00		3.50-4.00	
	Over Expansion Max. Diameter (mm)	3.25 3.		75	4.75	
Resolute	Stent Diameter (mm)	2.25-2.7	5 3		3.00-4.00	
Integrity	Over Expansion Max. Diameter (mm)	3.50		4.75		

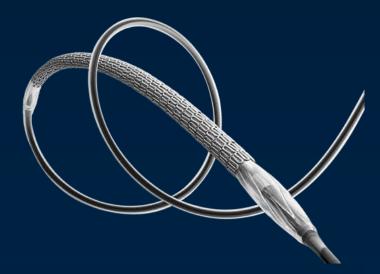
Resolute Onyx Size Matrix

STENT LENGTH (mm)												
STENT DIAMETER (mm)	2.00	8	12	15	18	22	26	30				
	2.25	8	12	15	18	22	26	30	34	38		
	2.50	8	12	15	18	22	26	30	34	38		
	2.75	8	12	15	18	22	26	30	34	38		
	3.00	8	12	15	18	22	26	30	34	38		
	3.50	8	12	15	18	22	26	30	34	38		
	4.00	8	12	15	18	22	26	30	34	38		
	4.50		12	15	18	22	26	30				
	5.00		12	15	18	22	26	30				

Conclusion

• Core Wire Technology contributes to the thinner stent struts 0.0032"/81 µm and improved delivery system, Resolute Onyx could be easily delivered to tortuous vessels and treat the complex lesions.

With improved radiopacity, physicians can save much procedural time on stent positioning.



Thank You