

CoreWire Technology& Onyx cases sharing

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What happen in our lab after changing to onyx?

Resolute Integrity

-> Onyx

Usage at least increased >20x



Onyx: CoreWire Technology





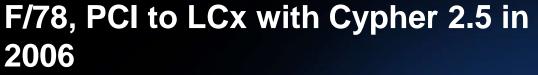
Thinner struts
Increased deliverability
Increased visibility
No compromise to strength

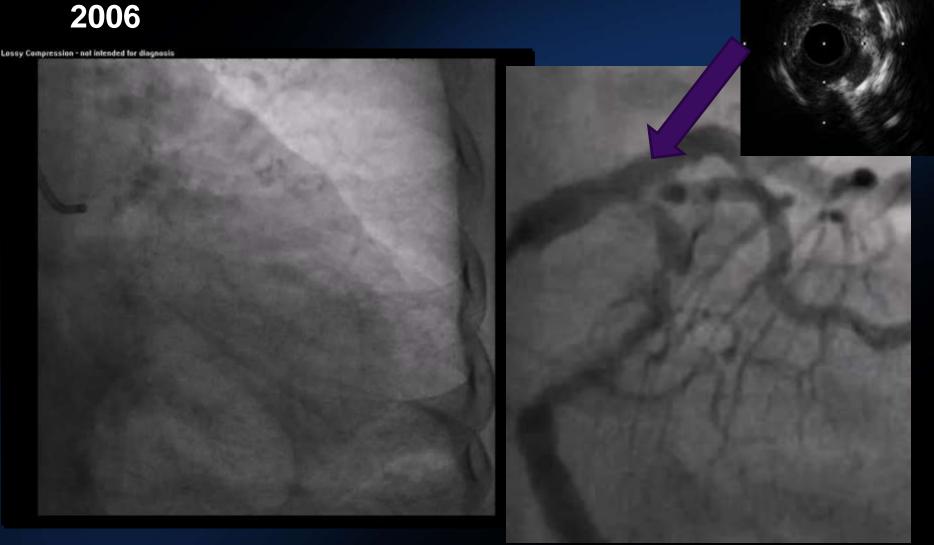
Onyx stent strut

	Resolute Integrity	Resolute Onyx 81 ug		
Strut Thickness	91 ug			
Strut materials	Cobalt alloy	Cobalt alloy shell + Plantium iridium core (2.6x density) Increased visibility		
Crossing Profile	1.12mm	1.04mm		
Deliverability		20% increased		

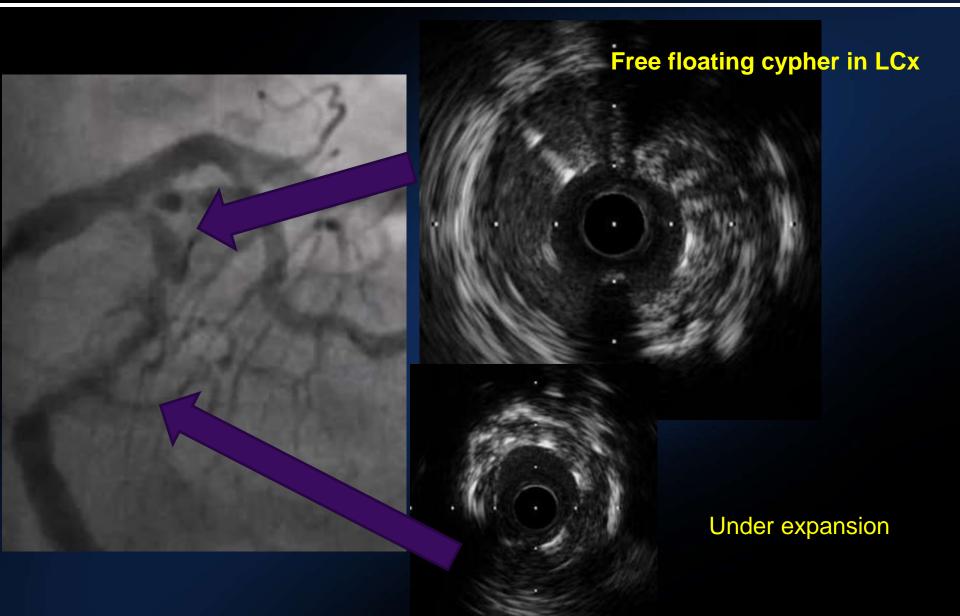
Garcia E. et al Eurointervention May 2015



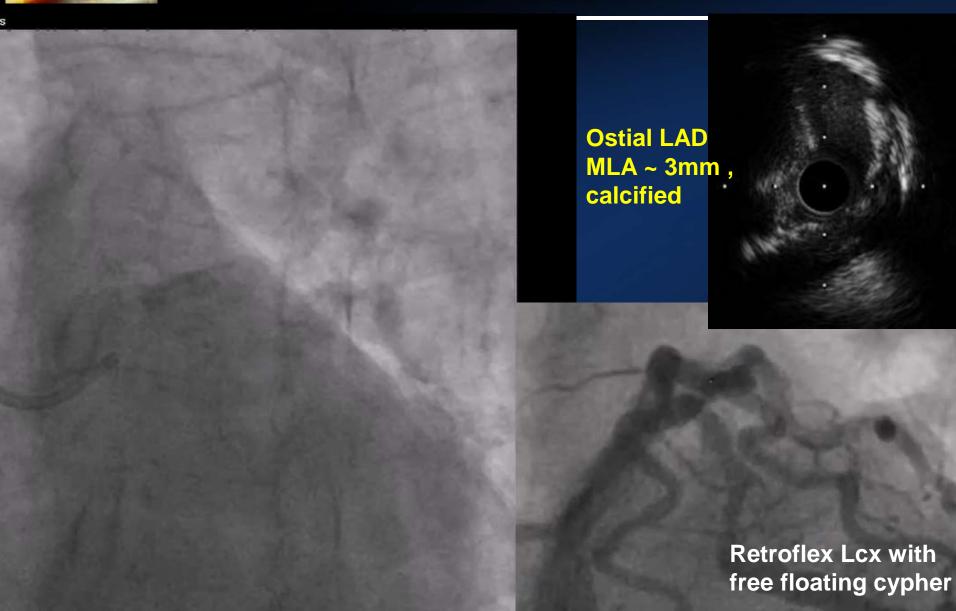




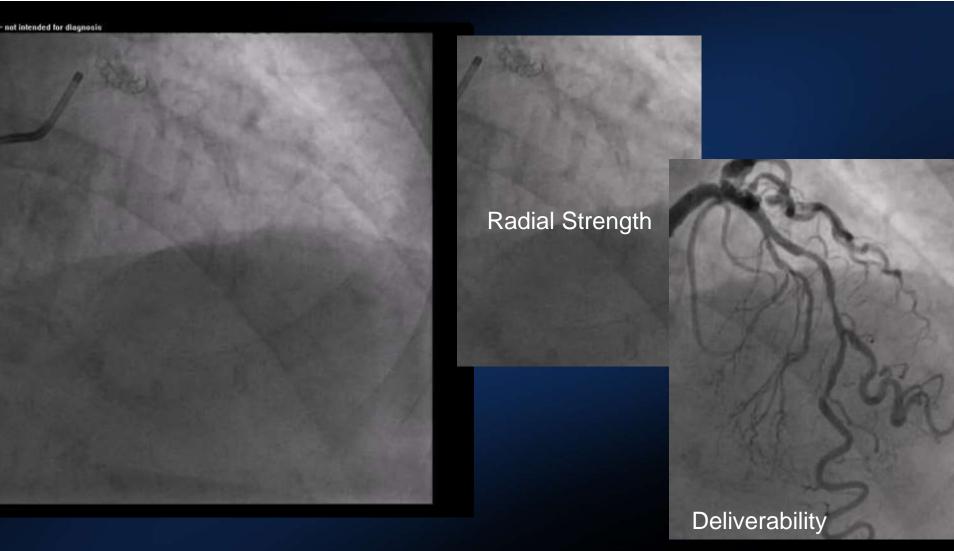






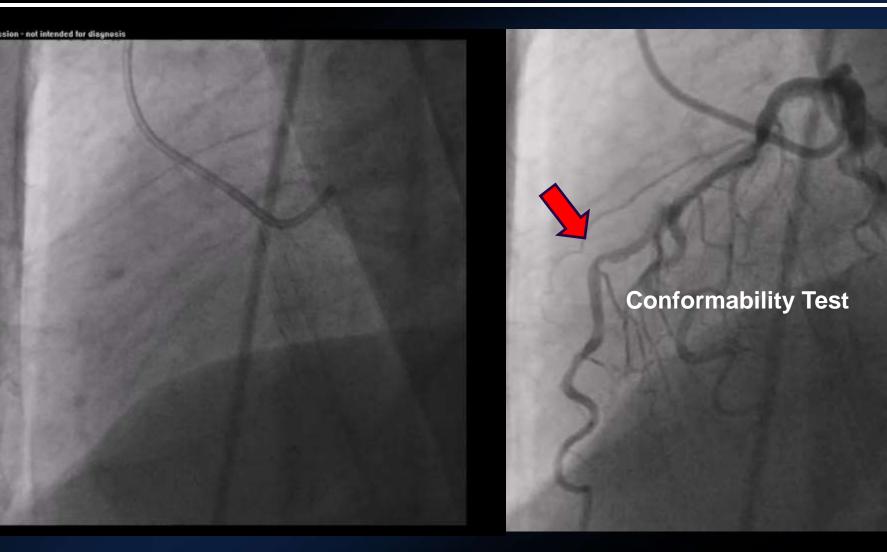






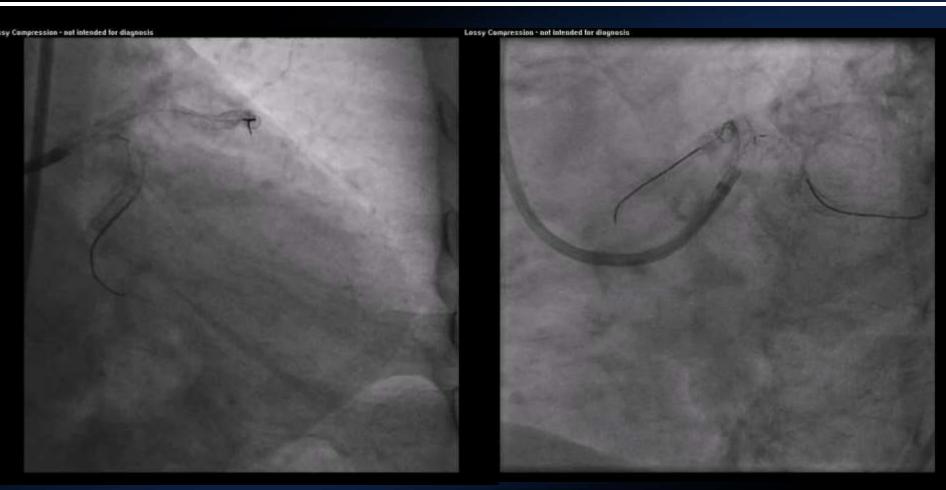
Calcified and long LAD lesion







Case 1: Exam results for Onyx

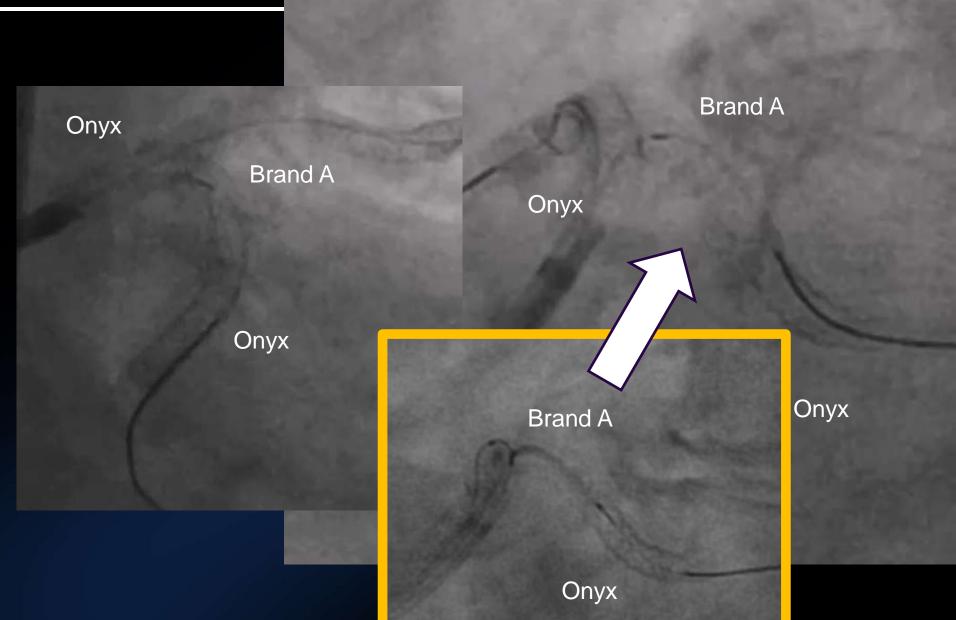


Visibility Test: pLCx Brand A,

LM & m-dLCx Onyx



Visibility Test: pLCx Band A LM & m-dLCx Onyx





Case 1: Exam Results for Onyx - radial strength and conformability



Radial strength and conformability



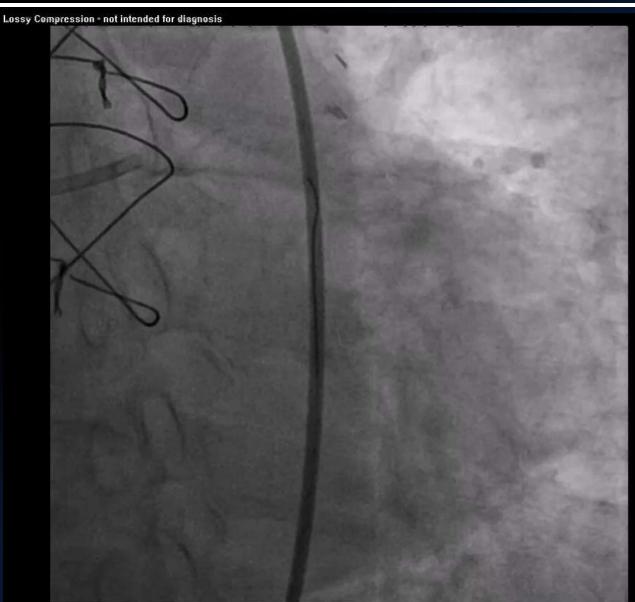
Case 2 More choice in size & length Onyx 2.0 & 5.0

Onyx Size Choice from 2.0 to 5.0

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			

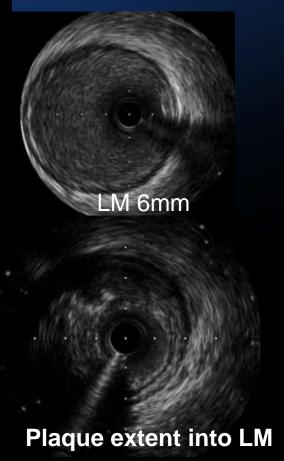


Case 2 Onyx 2.0 and 5.0



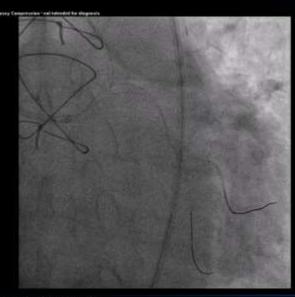
Challenge:

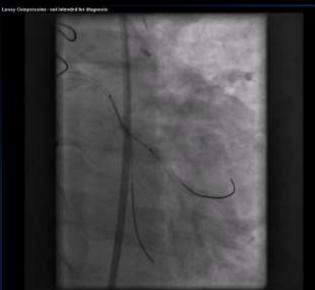
- 1. Mismatch
- 2. Complex bifurcation

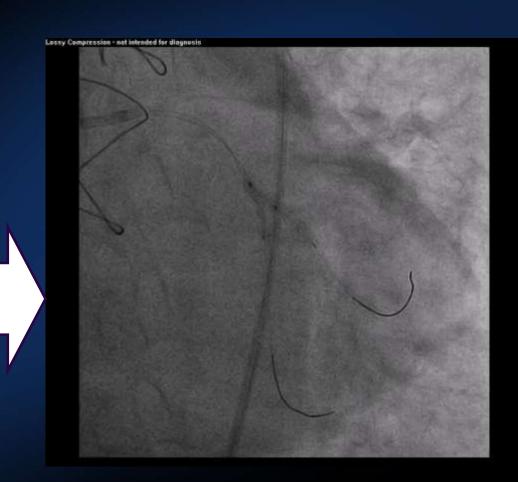




Bifurcation done by DK Crush



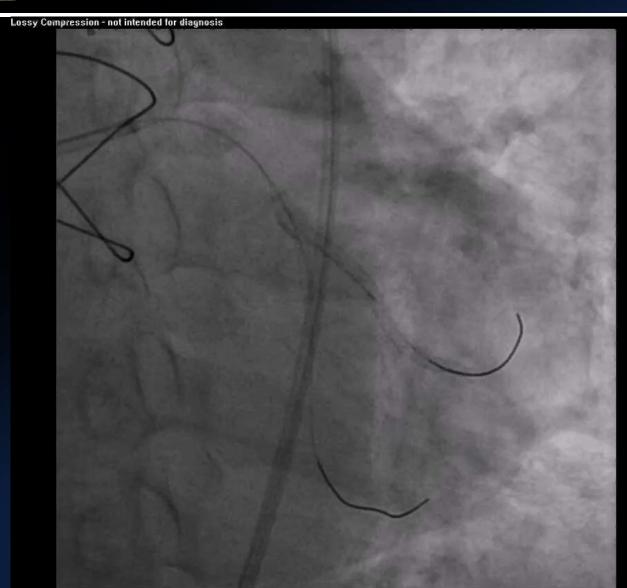




2 steps mini kissing and POT



What next? How to Treat?





Use self expanding stent $3.5 \rightarrow 6.0$



Self apposing stent 3.5 -4.5 x 17mm

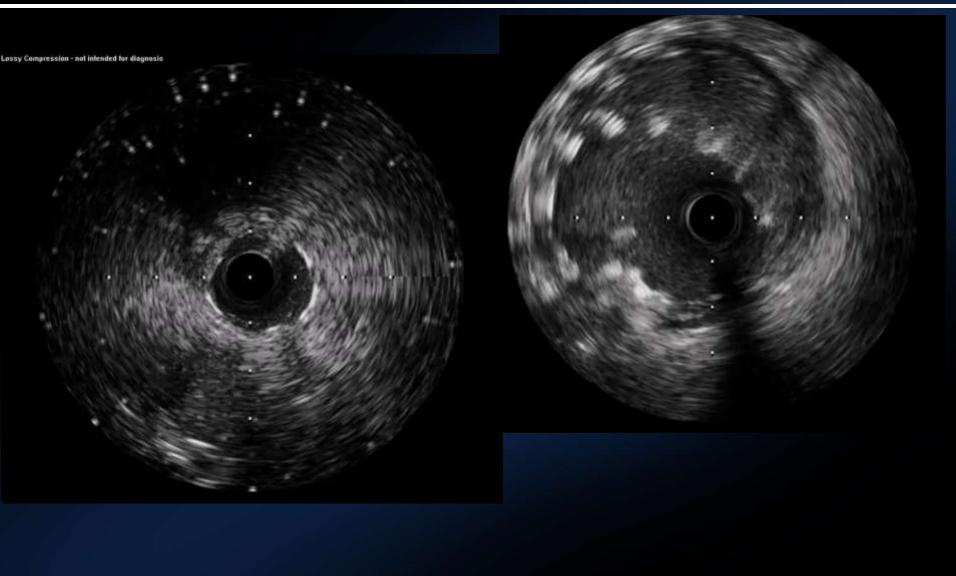


Good !! ??



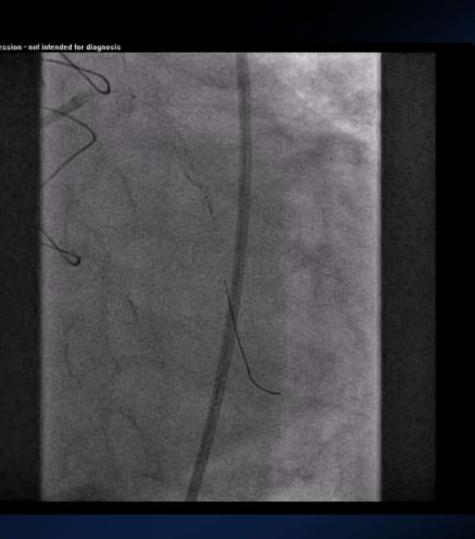


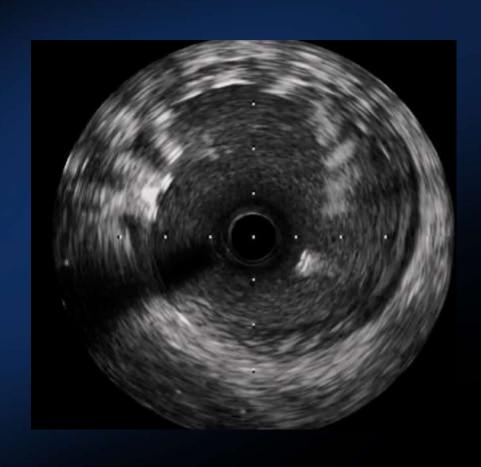
Let's see the IVUS





4.5 NC at 20 ATM

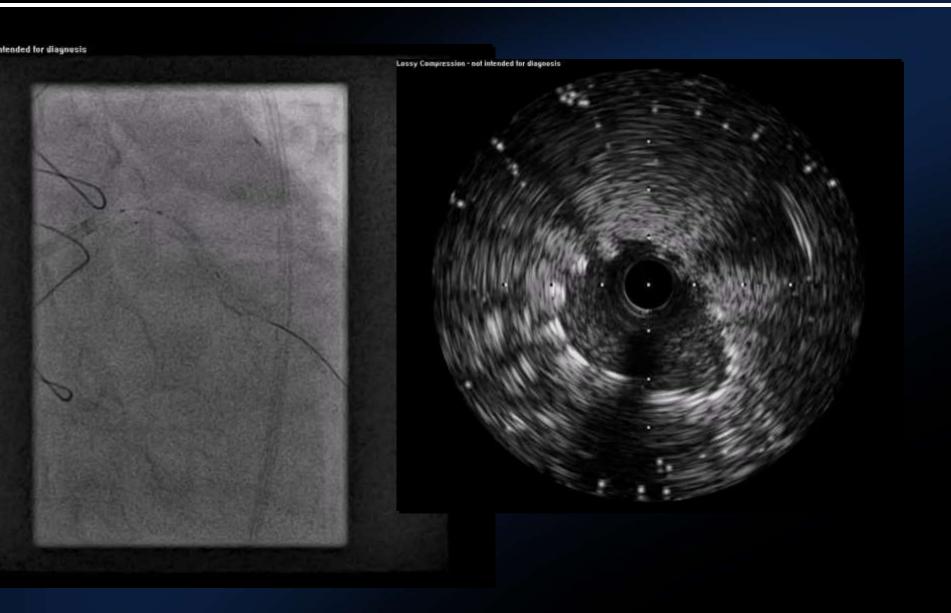




Self recoil !?



Never give up !! → 5.5 NC (3 times)





Stent the LM with Onyx 5.0. Why?



Resolute Onyx[™]DES

5.0 mm x 18 mm Deployed to 5.75 mm

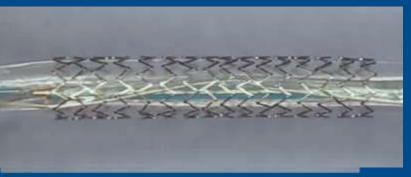




Average foreshortening: 0.8%

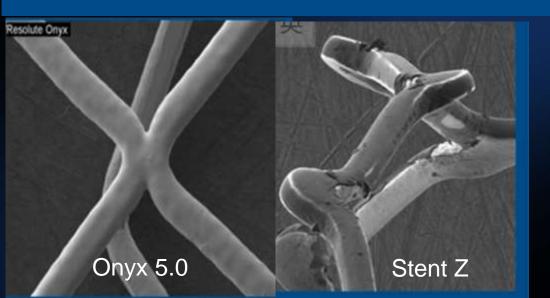
Stent Z 4.0

Deployed to 5.75 mm





Average foreshortening: 14.7%



1.Radial Strength 2.Shortening 3.Polymer



Case 2 final coro for onyx 2.0 & 5.0





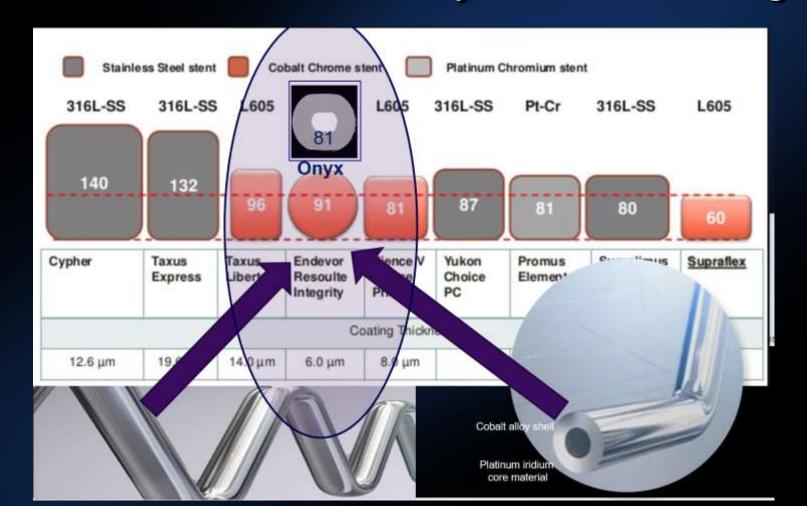
Final IVUS





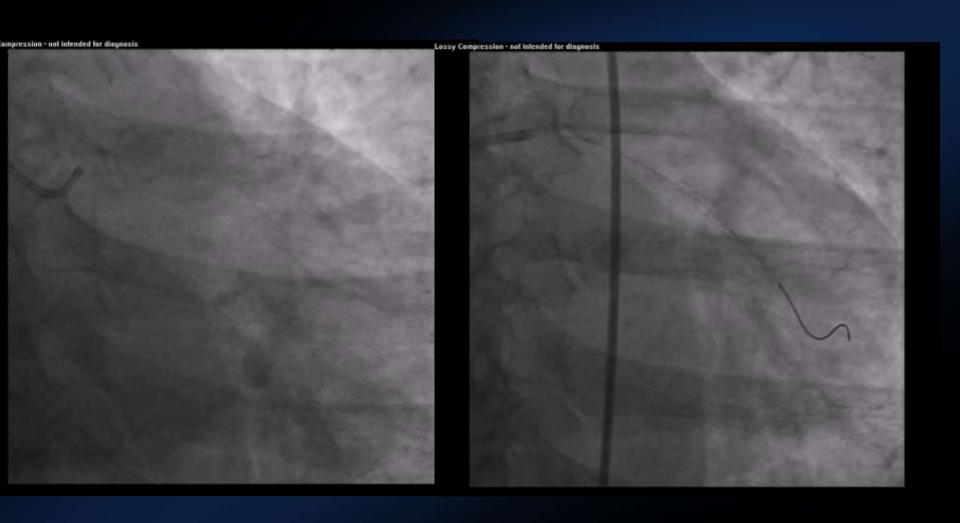
Case 3 & 4 Onyx for bifurcation

- CoreWire Technology
 - More visible → more easy to control SB wiring



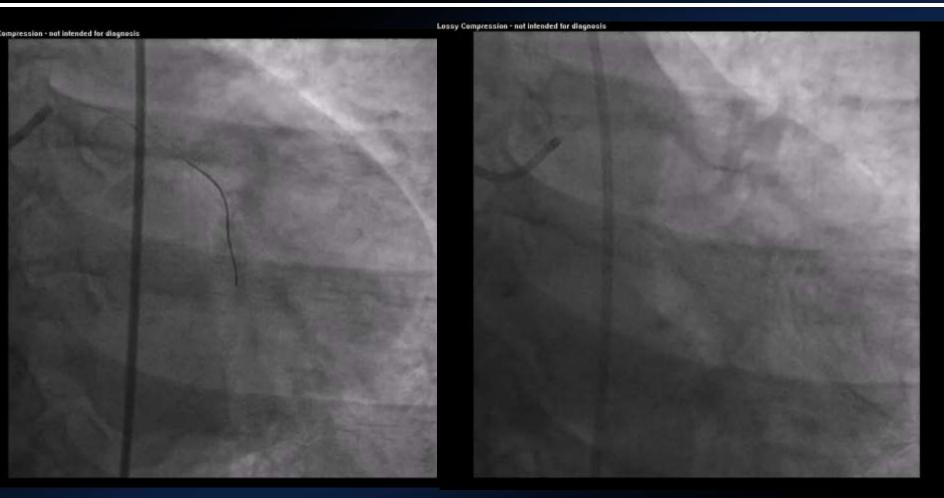


Case 3 & 4 Onyx for bifurcation - SB rewiring excellent





Case 3 & 4 Onyx for bifurcation - SB rewiring excellent

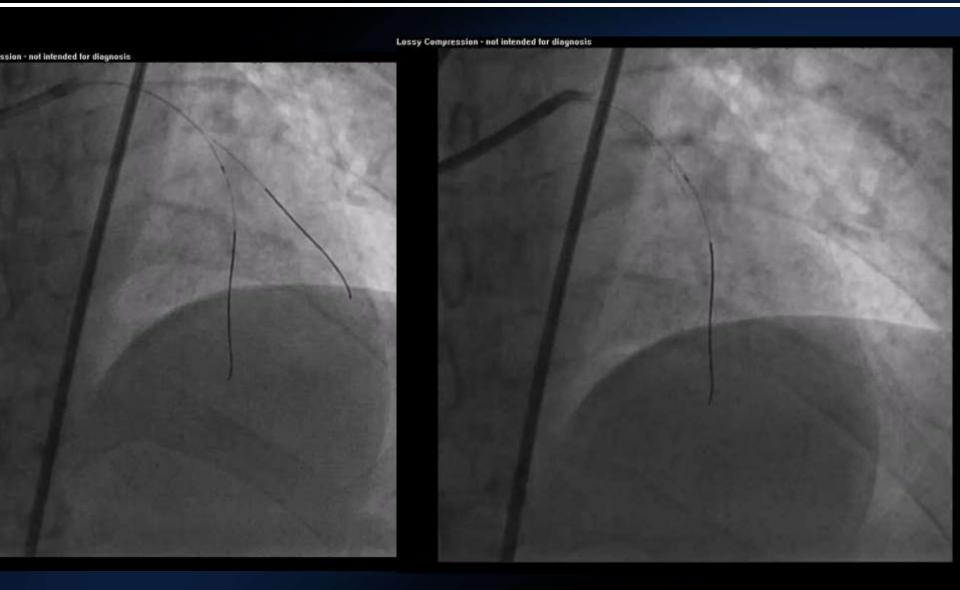


Final coro after rewire and kissing

Restudy coro 3 months later



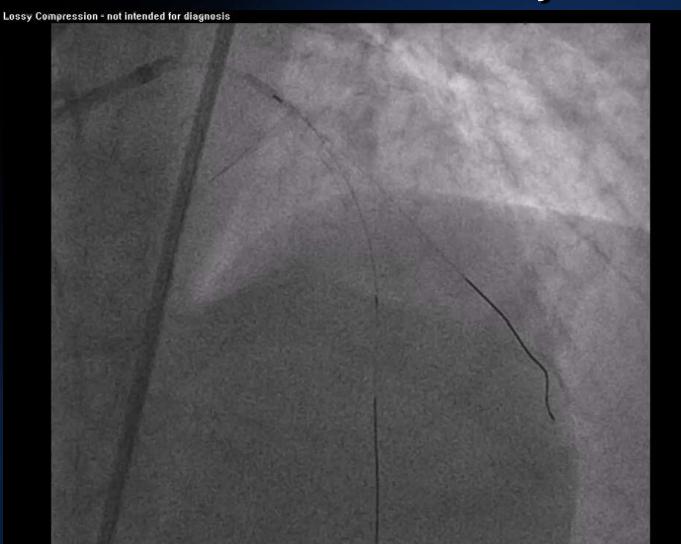
Case 4: easy side branch crossing





Case 4: easy side branch crossing

► Inflated 1.5 balloon cross smoothly





Case 4: easy side branch crossing

example of onyx in cullotte





Summary

- General tests for onyx
 - LM, CTO, Bifurcation by crush /cullotte/provisional
 - Deliverability, Strength, Comfortability, Visibility

Onyx 2.0 and 5.0