



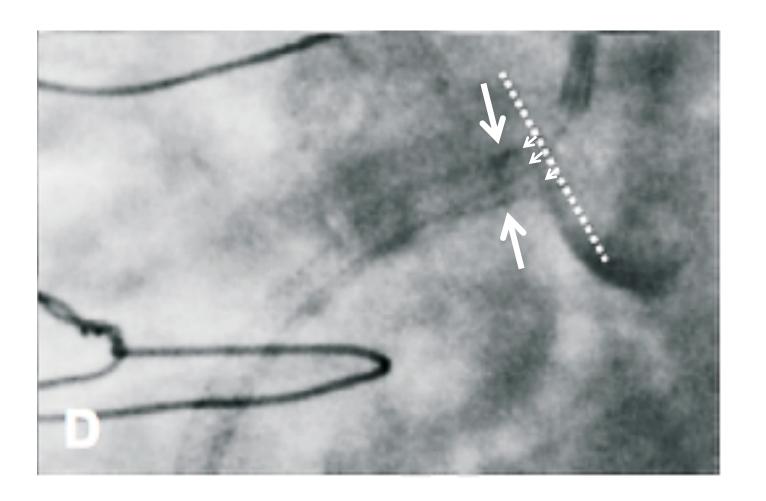
Left Main Longitudinal Stent Distortion: Clinical and RX diagnosis

Y. Louvard, ICPS, Massy, Quincy, Ramsay-Générale de santé, France

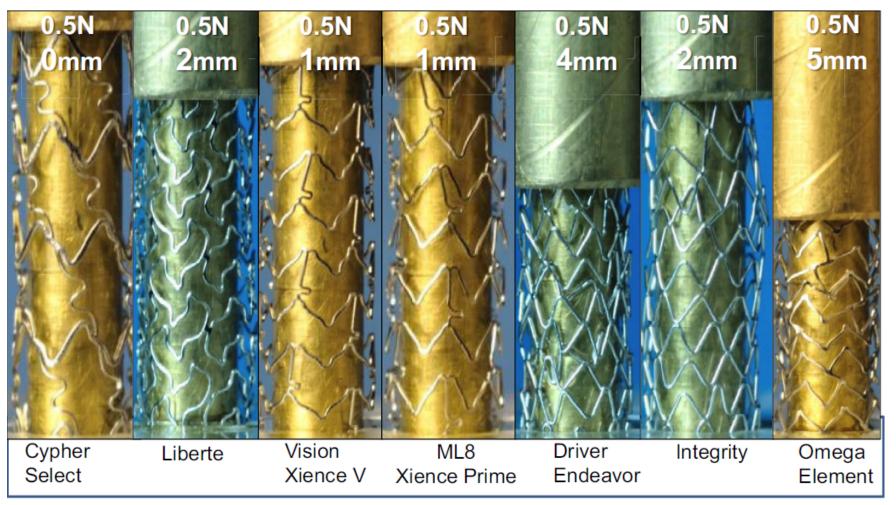
14th European Bifurcation Club meeting Brussels, October 12-13th 2018



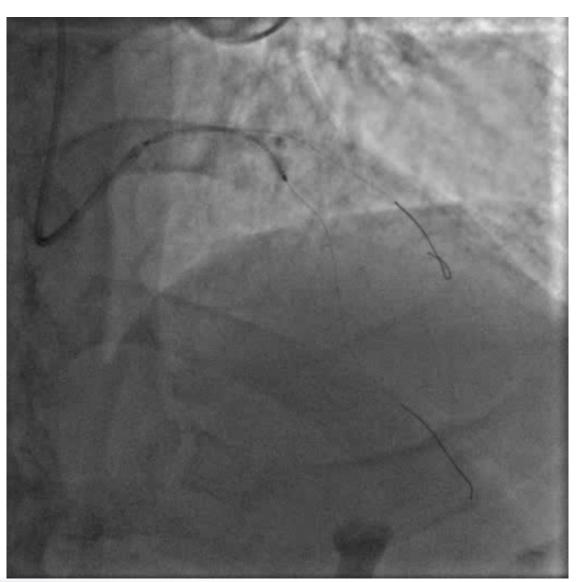
Longitudinal compression: a "new" complication with modern coronary stent platforms – time to think beyond deliverability?



Stent Longitudinal Integrity Bench Insights Into a Clinical Problem



Comparative Stent Longitudinal Shortening and Distortion With 0.5 N Compressing Force



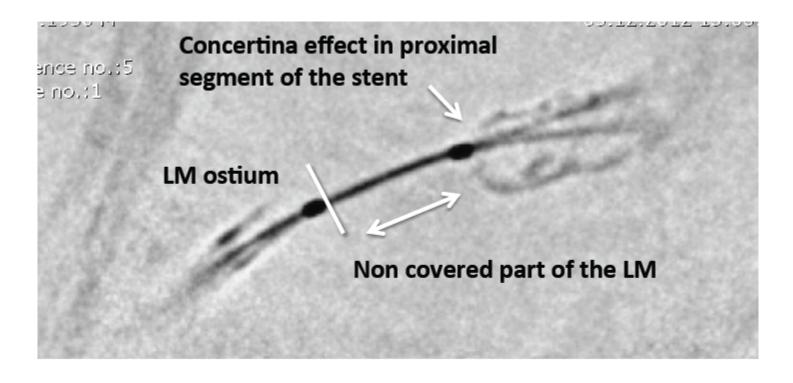
Xience V

www.icps.com.fr

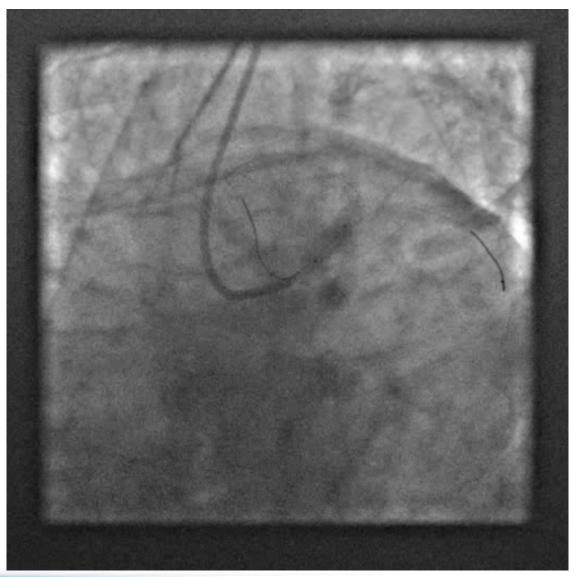
2012

PCR 2013

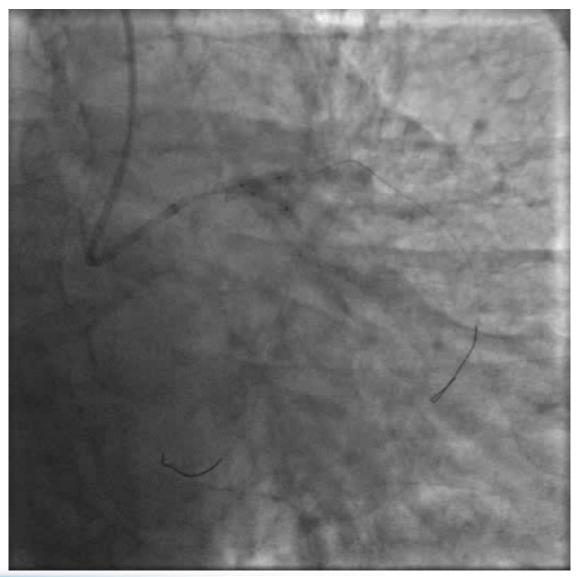
Presented at

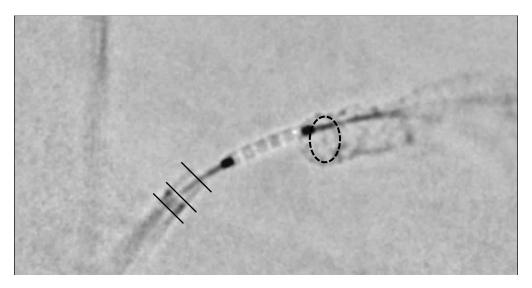


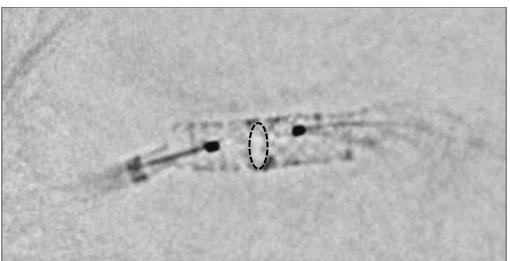
 Stent Viz (General Electrics) evidenced a shortening of the stent with a disrupted portion in its proximal edge.











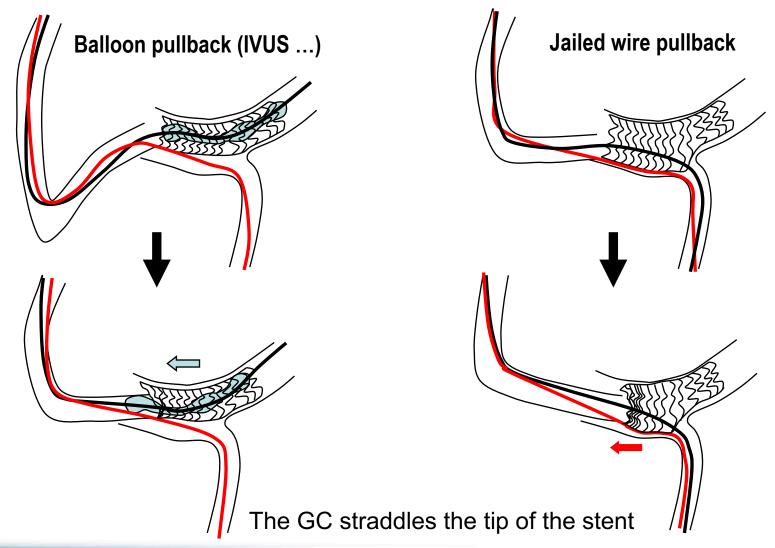
Lateral « concertina »

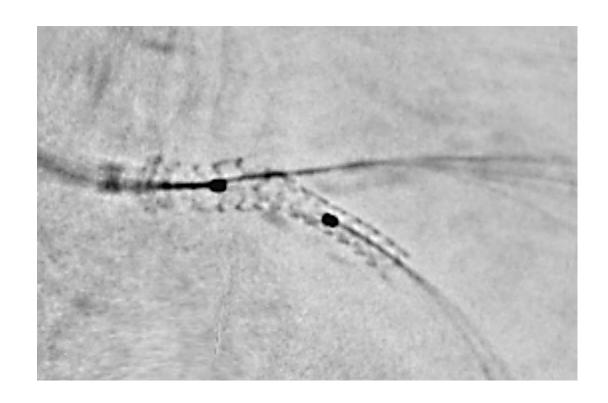
Clinical and Rx diagnosis

- Ostial/proximal lesion (but can occur in proximal LAD/Diag lesion)
- Jaided wire
- Guiding / stent conflict (the marker is not at the tip of the catheter)
- Difficulty to recross the crossover stent, even with a small balloon
- Stent is **shorten**, **displaced** (elongated), **dense radio-opaque spots** in the area of the stent (visible with X-Ray, better with **stent enhancement**)

Stent longitudinal distorsion

Conflict with guiding catheter





Stent longitudinal deformation in Left Main stenting

Follow-up results in LSD and non-LSD patients

FU (526,6 days)	LSD patients (n=12)(5.2%) Number (%)	non- LSD patients (n=217) Number (%)
In-stent restenosis	2 (16,7)	20 (9,2)
TVR	3 (25)	15 (6,9)
TLR	2 (16,7)	14 (6,5)
Hospital death	0	4 (1,8)
All cause death	1 (8,3)	5 (2,3)
Definite ST	0	2 (0,9)
Possible ST	1 (8,3)	2 (0,9)
MI	-	0