BVS in LM lesions, why not?

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BVS in LM lesions, why not?

No conflict to disclose

BVS in left main, why not?

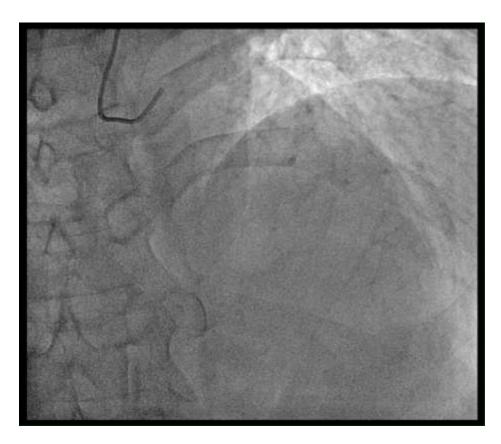
- What is known from the bench testing ?
- 1/ max expansion of a 3.5mm BVS (largest available) is 4mm, 4.2 max if we want to respect the integrity
- 2/ cells size expansion? (no more than 3mm)
- 3/ bifurcations cannot be treated with BVS like as a traditional metallic DES bifurcation

Case History(2014)

- 71 yr male CCS II Angina for 2 months
- Background: Non-Insulin Dependent Diabetes
- Preserved renal function: serum creatinine=77µmol, clearance 78 mL/min
- Preserved LV function with normal ECG
- Active and otherwise well

Diagnostic Angiography





RCA: proximal lesion

LMS: distal lesion

LAD: mid and distal lesions

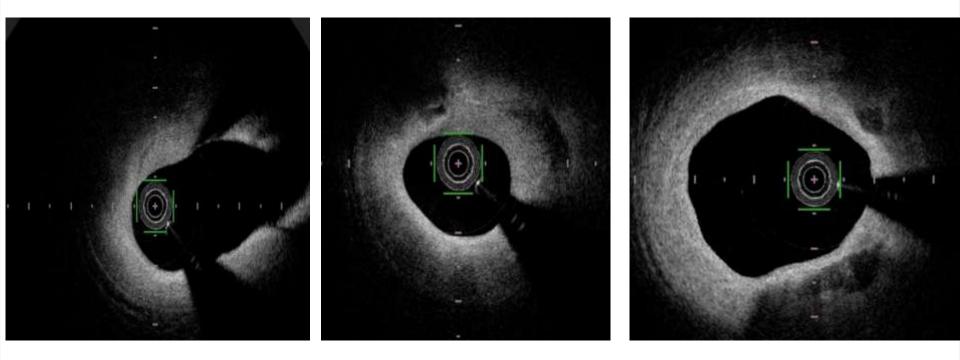
Diagnostic Angiography- LMS Lesion Medina (1,0,0)



Diagnostic Angiography

- LMS (1,0,0) with FFR Left Main/ LAD =0.79
- Severe lesion LAD mid and distal
- Significant RCA proximal
- Syntax Score= 21(Low Risk 0-22 Group)
- Euroscore II= 0.92%(low risk for CABG)

OCT LMS Pre



OCT Bifurcation

OCT Distal LMS

OCT Proximal LMS

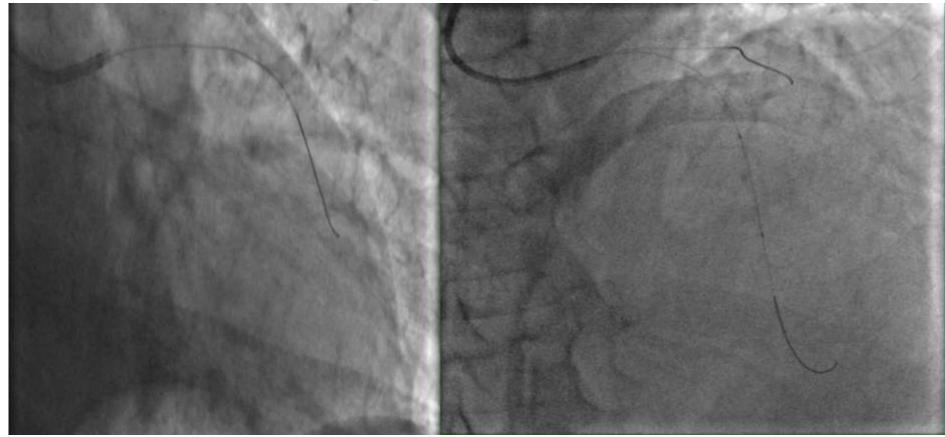
OCT LMS Measurement Pre



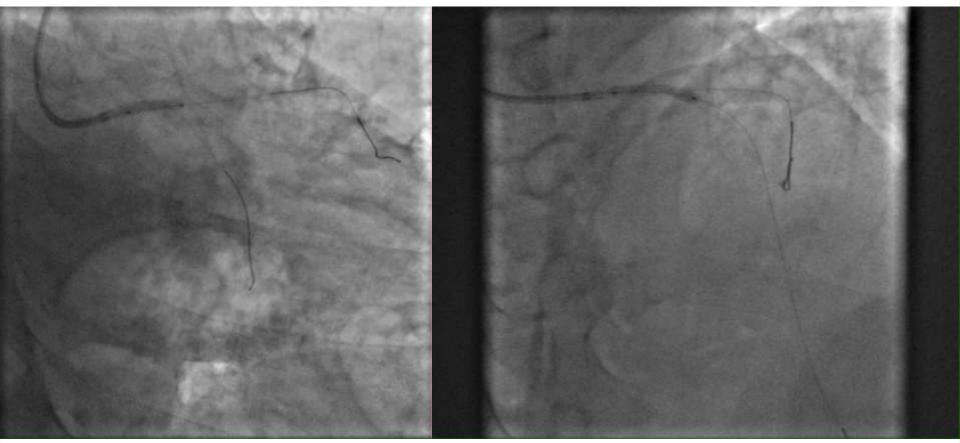
Index PCI LAD and LMS

- 6F Right radial access,
- EBU 3.5 and 2 BMW wires
- Non compliant balloons for predilatation
- BVS Everolimus-eluting Stents

PCI to LAD Abbott BVS 2.5 x 28 mm to 12 atm post dilated at @) atm with non compliant balloon



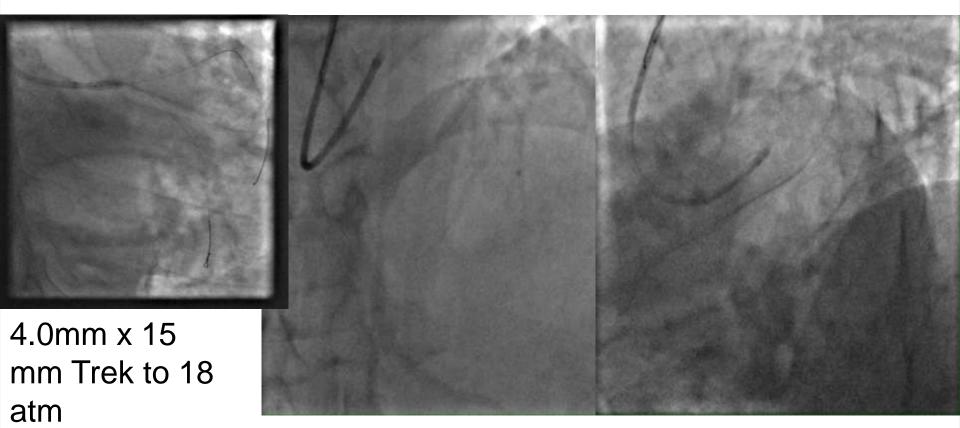
PCI to LMS: Abbott BVS 3.5 x 18mm



Predilatation Trek 3.5 x 15 mm to 14 atm

Stent deployment to 10 atm

Post Dilatation and Final Result

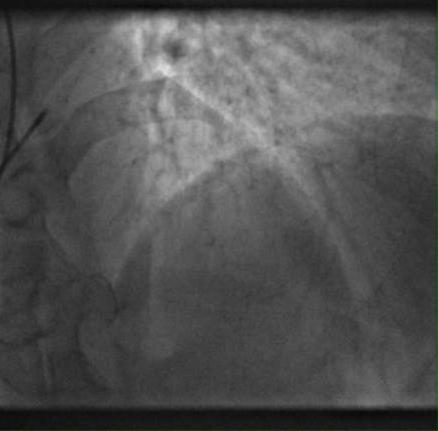


PCI RCA 2 weeks later



Nobori Biolimus-A9 3.0 x 14 mm

Control angiogram at 14 months for atypical symptoms, FFR negative on LAD,LM and RCA





Summary

- BVS seems to be as effective as last generation DES, and have many advantages compared to DES, in particular for young patients, but also in bifurcation allowing simple cross over technique
- If all bench informations are taken into account (no over expansion, new ways of performing bifurcations (M/S/M or snuggle)
- Why not use them in pts with small LM (less than 4.2mmm while waiting for larger BVS?
- Additional imaging (IVUS/OCT) is mandatory
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