

The 3.0-mm BVS appears to be safe and effective in small vessels, with similar clinical and angiographic outcomes observed when compared with those of large vessels.





International Journal of Cardiology

Letter to the Editor

First experience of a bioresorbable vascular scaffold implantation in left main stenosis

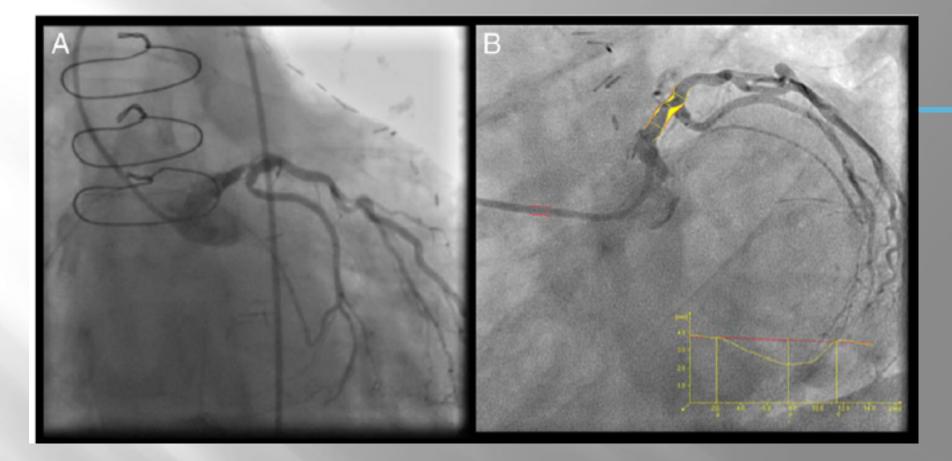
Diego Fernández, Salvatore Brugaletta *, Victoria Martín-Yuste, Ander Regueiro, Ana de Mingo, Alejandro Santos, Mónica Masotti, Manel Sabaté

Thorax Institute, Hospital Clinic, University of Barcelona, IDIBAPS, Spain

Male, 56 yrs, Diagnosis: NSTEMI Past history: post -CABG, HTN, DM



Fernández D, et al. Int J Cardiol.2013, Jan 22: Epub ahead of print



Distal LM lesion (80%), CTO of ostial LAD, diffuse atheromatosis without ostial involvement of IA (main vessel) and LCx (side branch), forming a bifurcation lesion (Medina 1, 0, 0); and absence of significant lesions in IA and LCx.

Pre-procedural reference vessel disease of LM: 3.82-mm.



Table 3	Adverse Events at 6-Month Follow-Up		
	Small Vessels (<2.5 mm; n = 41)	Large Vessels (≥2.5 mm; n = 60)	p Value
ID-MACE*	3/41 (7.3)	2/60 (3.3)	0.3933
Cardiac dea	th 0/41 (0.0)	0/60 (0.0)	NA
MI	2/41 (4.9)	1/60 (1.7)	0.5645
QMI	0/41 (0.0)	0/60 (0.0)	NA
NQMI	2/41 (4.9)	1/60 (1.7)	0.5645
ID-TLR	1/41 (2.4)	1/60 (1.7)	1.0000
CABG	0/41(0.0)	0/60 (0.0)	NA
PCI	1/41 (2.4)	1/60 (1.7)	1.0000
Non-ID-TLR	0/41(0.0)	0/60 (0.0)	NA
CABG	0/41(0.0)	0/60 (0.0)	NA
PCI	0/41(0.0)	1/60 (1.7)	1.0000

A: Advance of a BMW guidewire (0.014×190) to distal IA through a 6F EBU 3.5 guide catheter

B: Pre-dilatation of distal LM and IA with a 3.0×12-mm TREK balloon at 14 atm

C: Implantation of BVS 3.5×18mm at 14 atm (expected diameter:3.94-mm).

D: Final result with adequate stent expansion, absence of plaque shifting and preserved flow in IA and LCx.





- A 3.5-mm BVS can be implanted at 16 atm with an expected diameter of 4.0-mm
- The feasibility of BVS implantation in bifurcation lesions is demonstrated in case no lesion is present at the ostium of the side branch





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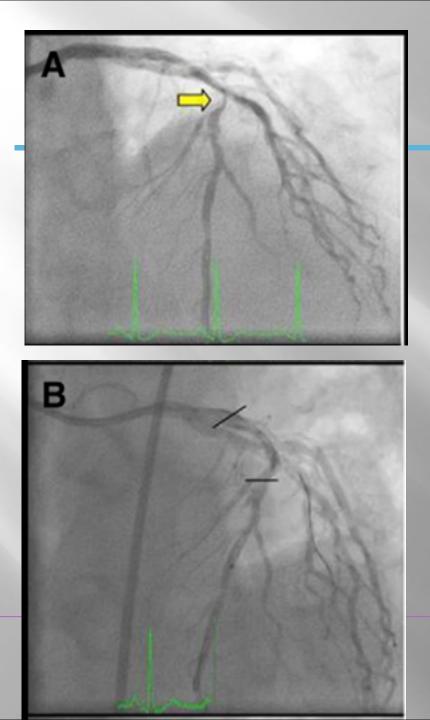
3-Dimensional reconstruction of a bifurcation lesion with double wire after implantation of a second generation everolimus-eluting bioresorbable vascular scaffold

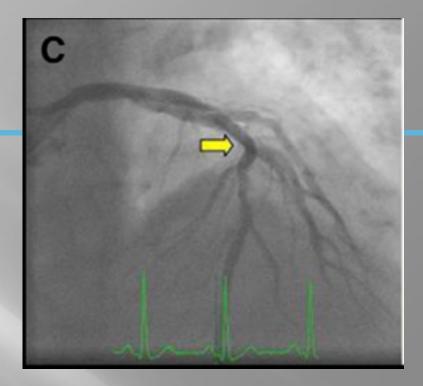
Robert J. van Geuns¹, Bill D. Gogas¹, Vasim Farooq¹, Evelyn Regar, Patrick W. Serruys^{*}

Thoraxcenter, Erasmus University Medical Centre, Rotterdam, The Netherlands

Male,75yrs Past history: hypercholesterolemia Diagnosis: acute coronary syndrome Angiography: a significant (>50%) bifurcation lesion in the mid LAD, appearing not to involve the Side B (MEDINA classification 1,1,0).

Van Geuns RJ, et al. International Journal of Cardiology. 2011, 153: e43-45





A: The bifurcation lesion (yellow arrow)

B: The double wiring post scaffold implantation in the main branch across the diagonal branch

C: Final result.





IMAGES IN INTERVENTION

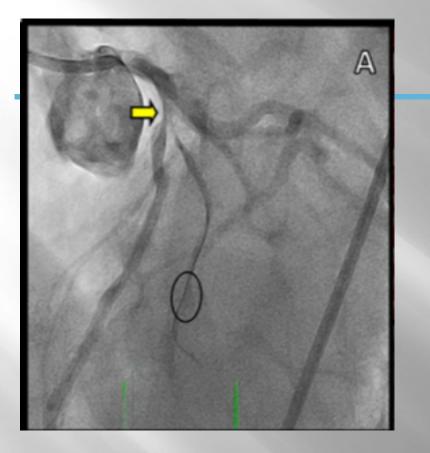
Three-Dimensional Reconstruction of the Post-Dilated ABSORB Everolimus-Eluting Bioresorbable Vascular Scaffold in a True Bifurcation Lesion for Flow Restoration

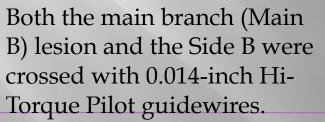
Bill D. Gogas, MD, Robert J. van Geuns, MD, PHD, Vasim Farooq, MBCHB, Evelyn Regar, MD, PHD, Jung Ho Heo, MD, Jurgen Ligthart, BSC, Patrick W. Serruys, MD, PHD

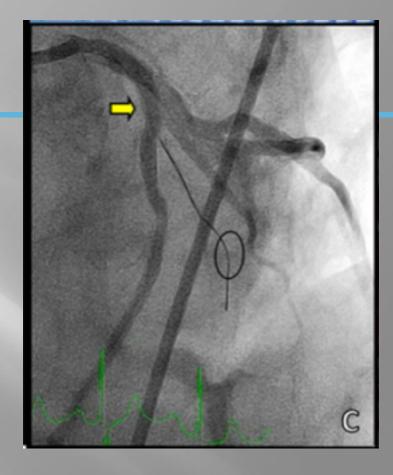
Rotterdam, the Netherlands

Male, 68yrs Diagnosis:NSTEMI Angiography: a significant true bifurcation lesion in the mid LAD,appearing to involve the D2 (Side B), measuring 1.7 mm in maximal diameter (Medina classification: 1, 1, 1).

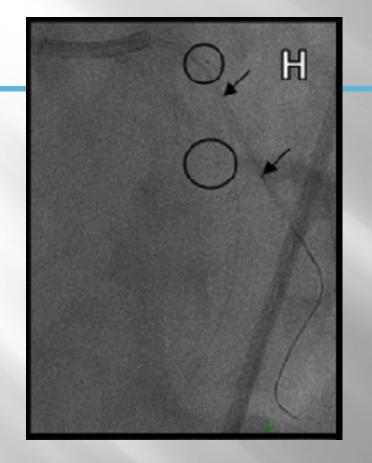
Gogas BD, et al. JACC: Cardiovascular Intervention. 2011,10:1149-50

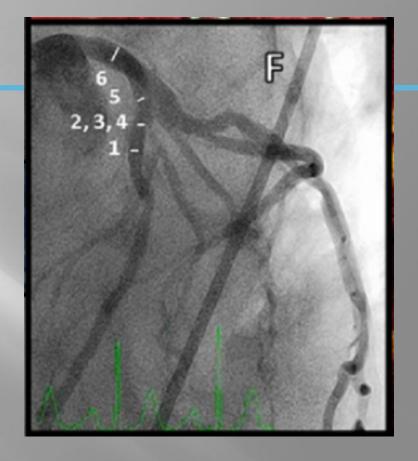






Implantation of a single 3.0*18-mm BVS in LAD across D2 opening was undertaken with nominal inflation pressures.TIMI1 immediately became evident at D2 with angiographic evidence of pinching of the ostium





A 1.5*12 mm Trek-compliant balloon was subsequently used to cross the cells of BVS toward the Side B and post-dilation of D2 was undertaken.

Restoration of TIMI 3 without significant myocardial damage.



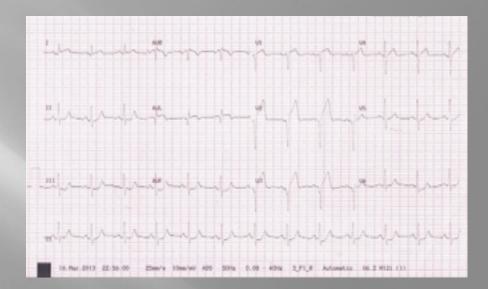
Looking Forward to Other Off-lable Use of BVS in Complicated Coronary Diseases... Experiences from Macao



CASE 1 : AMI

- Male.58yrs; Chest pain for 6hrs..
- High Risk: Hypertension UCG:EF52%,Slightly thinner in the ventricular septal and apical wall TnT (>10ng/ml) and CK-MB(>307.4ng/ml) elevated

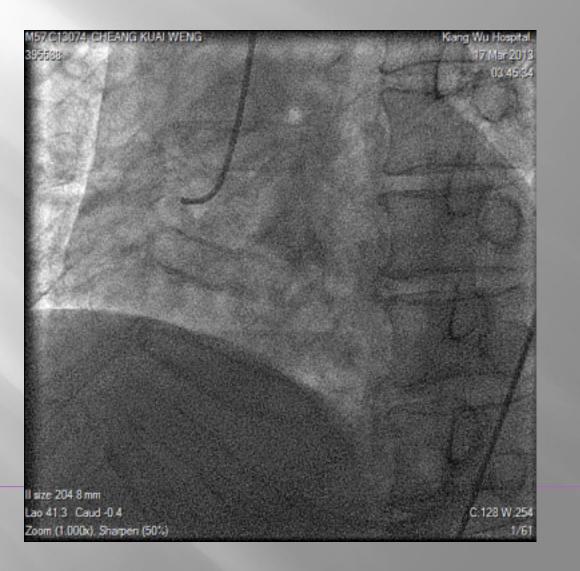
Diagnosis: STEMI



Case 1: AMI (Pre)







Case 1 : AMI (Pre)



6Fr.EBU 3.75; Runthrough NS wire; pre-dilated with Balloon 2.5*15mm

Case 1 : AMI (PCI)



Two Absorb Stents(3.0*18mm overlapping 3.5*12mm)



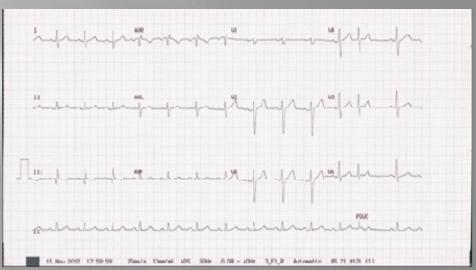
Case 1 : AMI (Post)





CASE 2: Bifurcation

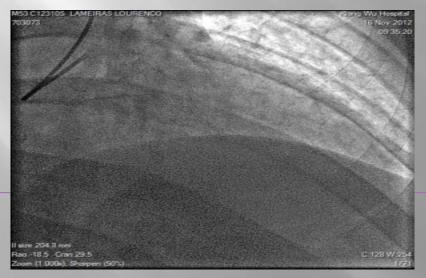
Male, 53yrs, Recurrent chest pain 30days. High risk: Hyperlipedeamia UCG:EF%, lower of interventricular septum hypokinesis. **TnT and CK-MB normal** Diagnosis: Unstable AP



CASE 2: Bifurcation (Pre)

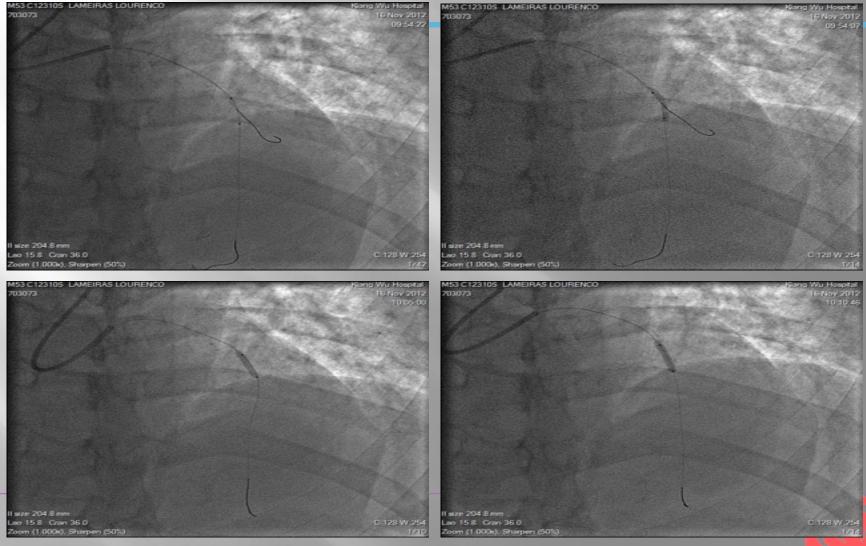












6Fr. BL 3.5;Runthrough wire; pre-dilated with balloon2.0*15mm and 2.75*15

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