



BIOLUX 4EVER

12-month results

Conclusions

- At 12 months, results on 120 patients show Primary Patency¹ (PP) of 89.9% and Freedom from Target Lesion Revascularization (FTLR) of 93.6%
- BIOLUX 4EVER results confirms safety and efficacy of combined use of Passeo-18 Lux and Pulsar-18, offering similar outcomes compared to available drug-eluting stent data
- Combining Passeo-18 Lux DCB with low profile and low Chronic Outward Force (COF) Pulsar-18 BMS creates a win-win situation as shown in the 12 months data of BIOLUX 4EVER and confirmed in longer term DEBAS² results, even up to 2 years
- Results showed an increase of a PP of 8% when compared to the 4EVER³ trial, where BMS was used on its own, confirming that there is a Paclitaxel effect by adding a DCB to a BMS

Study Design

Investigator-initiated, prospective, multi-center, trial investigating the efficacy of endovascular treatment of femoropopliteal arterial stenotic or occlusive disease with a combination of Passeo-18 Lux DCB and the Pulsar-18 stent comparing with the 4EVER³ trial results (stent only).

Principal Investigator

- Dr. Marc Bosiers, A.Z. Sint-Blasius, Dendermonde, Belgium

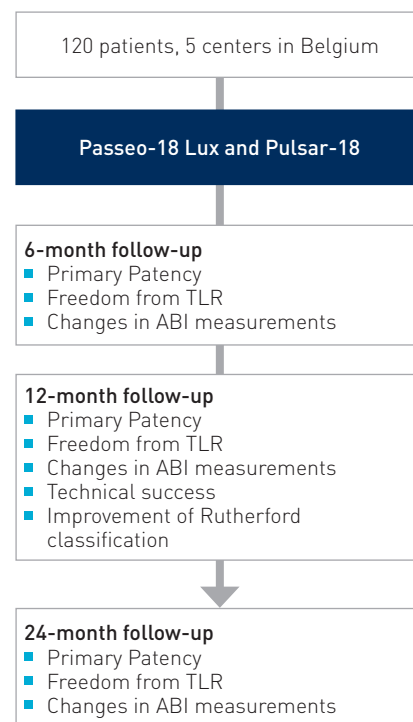
Endpoints

Primary endpoint

- Primary Patency at 12 months

Secondary clinical endpoints (selected)

- Primary Patency at 1, 6 and 24 months follow-up
- Freedom from TLR at 1, 6, 12 and 24 months follow-up
- Changes in ABI measurements at 12 and 24 months follow-up
- Technical success⁴
- Clinical success at follow-up⁵



Patient Demographics

	n = 120
Male [%]	79 [65.83%]
Age [min. - max.; ± SD] years	70.87 [43.73-92.41 ± 10.52]
Nicotine abuse [%]	73 [60.83%]
Hypertension [%]	76 [63.34%]
Diabetes mellitus [%]	23 [19.17%]
Renal insufficiency [%]	15 [12.50%]
Hypercholesterolemia [%]	66 [55.00%]
Obesity [%]	28 [23.33%]

Lesion Characteristics

	n = 120
Left/right limb [%]	41 [48.2%] / 44 [51.8%]
Lesion length [min. - max.; ± SD] mm	83.33 mm [6.0-190; ± 49.49]
Reference vessel diameter [min-max; ±SD] mm	5.26 mm [4.0-6.0; ± 0.59]
Occlusion [%]	40 [33.33%]
Calcified lesion [%]	60 [50.00%]

Indications and Procedural Characteristics

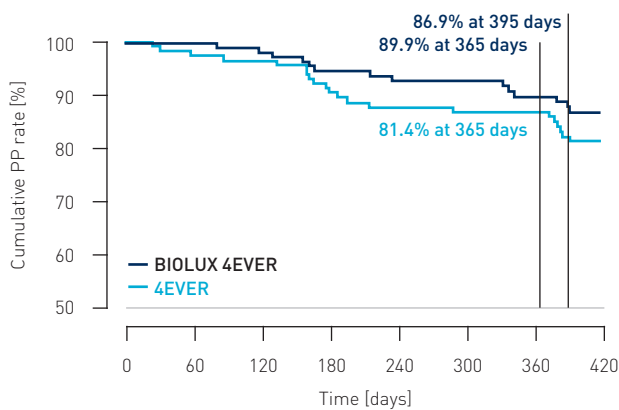
	n = 120
Rutherford 2 [%]	38 [31.67%]
Rutherford 3 [%]	62 [51.67%]
Rutherford 4 [%]	20 [16.67%]
Procedure time [min-max ±SD] (min)	48.32 [6.0-120; ± 18.57]*
Access side	Common femoral artery [100%]
Cross-over performed [%]	100 [83.33%]
Scopy time [min-max ±SD] (min)	11.37 [2.00-45.00; ± 7.08]**
Amount of contrast used [min-max ±SD] (cc)	92.62 [17.00-150.00; ± 35.68] ¹

* Missing data of one patient; ** Missing data of 18 patients

Technical success

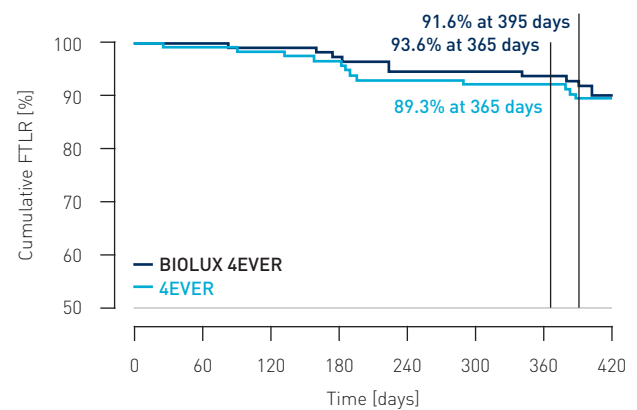
Technical success is 100%.

12-month Primary Patency



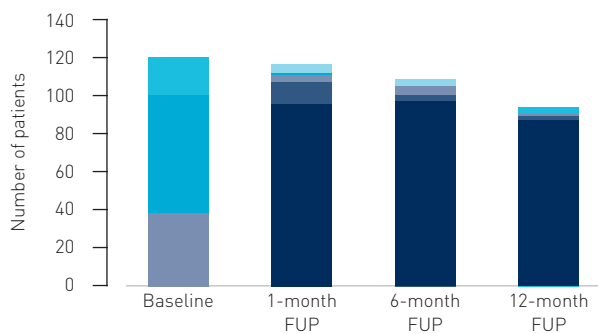
Time [days]	Baseline	30	180	365	395
At risk	120	119	108	90	89
%	100	100	94.7	89.9	86.9

12-month Freedom from TLR



Time [days]	Baseline	30	180	365	395
At risk	120	119	111	94	92
%	100	100	97.4	93.6	91.6

Improvement of Rutherford Classification



	Baseline	1-month FUP	6-month FUP	12-month FUP
Rutherford 5	0	5	3	0
Rutherford 4	20	0	0	0
Rutherford 3	62	1	1	4
Rutherford 2	38	4	3	1
Rutherford 1	0	11	4	2
Rutherford 0	0	96	97	87

* Source: BIOLUX 4EVER. Deloose K. DCB + Stent in the SFA: Full 12-month data of the BIOLUX 4EVER trial (365 days). Presented at Charing Cross 2017.

** 4EVER, Bosiers M, J Endovasc Ther. 2013; 20: 746-756

1 Bosiers M. 4-French-Compatible Endovascular Material Is Safe and Effective in the Treatment of Femoropopliteal Occlusive Disease: Results of the 4-EVER Trial. J Endovasc Ther. 2013; 20: 746-756.

2 Mwitayati P. First-in-man experience of self-expanding nitinol stents combined with drug-coated balloon in the treatment of femoropopliteal occlusive disease. Sage Journals. 2017; 0[0] 1-9, 24-month data.

3 Defined as Freedom from >50% restenosis as indicated by an Peak Systolic Velocity Ratio (PSVR) <2.5 in the target vessel with no re-intervention

4 Defined as the ability to cross and stent the lesion to achieve residual angiographic stenosis no greater than 30% and residual stenosis less than 50% by duplex imaging

5 Defined as an improvement of Rutherford classification at 1, 6, 12 and 24 months follow-up of one class or more as compared to the pre-procedure Rutherford classification

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