



12-month results

Conclusions

- Application of a paclitaxel coated balloon using Butyryltri-hexyl citrate (BTHC) as excipient is feasible and safe in a mixed population of patients with predominantly type I BMS or DES-ISR lesion
- A short exposure of the vessel wall to paclitaxel results in very low Late Lumen Loss (LLL), revascularization and MACE rates
- Pantera Lux application is a valuable treatment option for In-Stent Restenosis (ISR) in either BMS or DES patients

Study design

Prospective, multi-center, nonrandomized, European clinical trial of the Pantera Lux Paclitaxel Releasing Balloon

Endpoints

Primary endpoint

• LLL at 6 months

Secondary endpoint

MACE* at 6 and 12 months

Inclusion/exclusion criteria

Major inclusion criteria

- Patients with a single restenotic lesion
- Target reference vessel diameter 2 – 4 mm
- Target lesion length 8 28 mm
- Target lesion stenosis≥ 50% < 100%

Major exclusion criteria

- Myocardial Infarction (MI)
- Additional coronary lesions in the same vessel which requires treatment
- Totally occluded coronary artery

81 patients enrolled in 9 clinical sites in Germany, Poland and Denmark

Lesions pre-dilated with an uncoated balloon and treated with one Pantera Lux. 3 month dual antiplatelet therapy recommended

1-month clinical follow-up

angiographic follow-up

12-month clinical follow-up





Patient characteristics

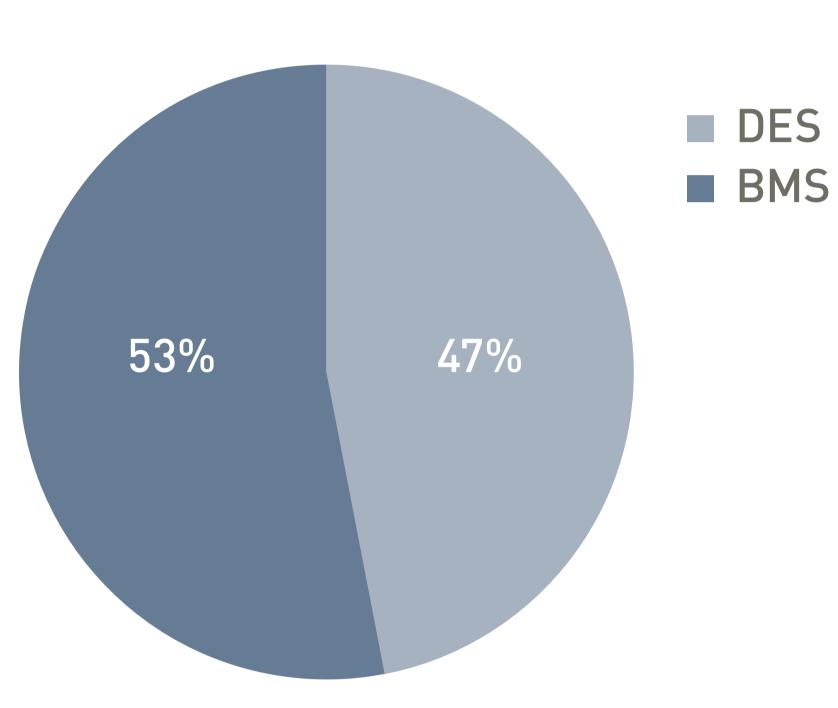
Demographics		
Age (years)**	66.1 ± 9.4	
Male gender	77.8%	
Medical history/risk factors		
Hyperlipidemia	87.7%	
Hypertension	87.7%	
Prior MI	63.0%	
Diabetes	27.2%	
Renal disease	13.6%	

Lesion characteristics

Mehran classification		
Focal (Type I)	71.6%	
Diffuse (Type II)	19.8%	
Proliferative (Type III)	7.4%	
Occlusive (Type IV)	1.2%	

^{*} Composite of cardiac death, non-fatal Myocardial Infarction(MI), Clinically Driven Target Vessel Revascularization (CD-TVR)

ISR distribution by stent type



Acute and 6-month	Pre-	Post-	
angiographic results*	procedure	procedure	6-month
In-stent			
Reference vessel diameter	$2.84 \pm 0.39 \text{ mm}$	$2.86 \pm 0.39 \text{ mm}$	$2.82 \pm 0.38 \text{mm}$
Minimum lumen diameter	$0.91 \pm 0.43 \text{mm}$	$2.18 \pm 0.39 \text{ mm}$	$2.08 \pm 0.41 \text{mm}$
			0.07 ± 0.31 mm
Diameter stenosis	68.1 ± 13.8%	23.9 ± 9.8 %	25.9 ± 11.7 %
In-segment			
LLL			$0.02 \pm 0.32 \text{mm}$

// Primary endpoint

6-month clinical results	All	BMS	DES
MACE	5 (6.5%)	2	3
Cardiac death	_	_	_
Non-fatal MI	1 (1.3%)	1	_
CD-TVR	4 (5.2%)	1	3
CD-TLR	3 (3.9%)	_	2

12-month clinical results	All	BMS	DES
MACE	9 (11.8%)	2	7
Cardiac death	_	_	_
Non-fatal MI	1 (1.3%)	1	_
CD-TVR	8 (10.5%)	1	7
CD-TLR	7 (9.2%)	1	6

^{*}Data shown as mean ±SD

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Reference: Hehrlein C, et al. Twelve-month results of a paclitaxel releasing balloon in patients presenting with in-stent restenosis First-in-Man (PEPPER) trial. Cardiovasc Revasc Med. 2012 Sep; 13 (5): 260-264.





^{**} Data shown as mean ± SD