



Infrapopliteal use of DES

> J Endowse Ther. 2020 Aug.27(4):547-564. doi: 10.1177/1526002820031488. Epub 2020 Jun 17.

Balloon Angioplasty of Infrapopliteal Arteries: A
Systematic Review and Proposed Algorithm for
Optimal Endovascular Therapy

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CIRSE Standards of Practice on Below-the-Knee
Revascularisation

CVIR 2021
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Infrapopliteal DES — Why?

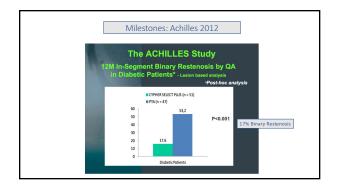
Background from those Papers

"Infrapopliteal PTA is associated with 4 main failure mechanisms that lead to loss of vessel patency: dissection, residual stenosis, recoil, and restenosis: Dissection and residual stenosis occur actuely after balloon angioplasty, recoil occurs over 15 to 30 minutes after an egioplasty, and restenosis is a biologic response to inflammation that peaks in severity 3 to 6 months after angioplasty."

"Several multicenter, randomized controlled trials (RCT) designed to investigate the use of DES for infrapopliteal artery disease, have provided level as evidence to support the use DES for short-to-medium-length lesions. According to meta-analytical data, DES deployment in short-to-medium-length infrapopliteal lesions was superior. In terms of patency, target lesion revascularization, Rutherford improvement and wound healing at 1-year follow-up, compared to bare metal stenting or plain balloon angioplasty."

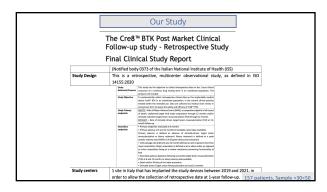
\*\*Table Note The Comparison of the Comparison of











	Study	Lesions		
Diameter Stenosis (%)	N=31	Residual Stenosis (%)	N = 31	
Mean ± SD	86.4 ± 11.7	Mean ± SD	0.3 ± 1.8	
Median	90.0	Median	0.0	
Min, Max	45.0, 99.0	Min, Max	0.0, 10.0	
Q1, Q3	85.0, 90.0	Q1, Q3	0.0, 0.0	
Re-established in-line fle	ow to foot:	N = 31		
Yes		31 (100.0)		
No		0 (0.0)		
Technical success (stent residual DS <30%)	implantation with	N = 31		
Yes		31 (100.0)		
No		0 (0.0)	0 (0.0)	
Majority of	subocclusiv	ve and occlusi	ive lesions	

	Clinically driven Target Lesion R	evascularization (N = 0)	N (%)	N (%)
	Surgical revascularization Symptomatic Percutaneous Reva		0 (0.0)	0 (0.0)
	symptomatic rercutaneous Reva	iscularization (Target lesion)	0 (0.0)	0 (0.0)
, .	atency (N=31)	31(100.0)	31(100.0)	
ible 19:	Limb-salvage rate (LSR) at 6	and 12 months defined	as rate of patie	
able 19: mputatio	Limb-salvage rate (LSR) at 6	and 12 months defined d as at or above ankle, as	as rate of patie	
able 19: mputation below m	Limb-salvage rate (LSR) at 6 n. Major amputation is define	and 12 months defined d as at or above ankle, as	as rate of patie	amputation being

