

General Information							Baseline Patient Demographics				Results																			
Study Device(s)	Sample Size	Study Design	MAE Definition	Primary Patency Definition	TLR Definition	Inclusion Criteria	Diabetic	Rutherford 3-5	CTO	Lesion Location	Period	MAE	Primary Patency (Per Protocol)	Primary Patency (Per Kaplan-Meier)	TLR	Stent Fracture Rate	Mean No. of Stents Implanted (± SD)	Range of Stents Implanted	Mean Length of Lesion Stented (± SD)	Range Length of Lesion Stented	Core Lab (Was echo and/or fluoro used in follow up?)	Published In	Presented At							
SUPERB (Idev Technologies, Inc.) Supera Peripheral Stent System	264 patients	Multicenter, prospective, nonrandomized, single-arm trial, OPG	Not defined	Defined as freedom from restenosis (defined as diameter stenosis > 50% with a PSVR > 2 as measured by DUS) and TLR	Any repeat percutaneous intervention or bypass surgery performed in the target lesion	Stenotic lesion(s) or occluded length within the same vessel (one long or multiple serial lesions) 4–140 mm	43.5%	62.5%	24.7%	SFA, popliteal, and distal SFA/popliteal	12 months	N/A	N/A	86.1%	10%	0%	N/A	N/A	83.2 mm	N/A	Yes	N/A	VIVA 2012, TCT 2012, LINC 2013							
Gore VIPER Clinical Study (W.L. Gore & Associates) Gore Viabahn Endoprosthesis With Heparin Bioactive Surface	119 limbs	11 centers, controlled, single-arm	Require therapy, minor hospitalization (< 48 hours), require major therapy, unplanned increase in level of care, prolonged hospitalization (> 48 hours), permanent adverse sequelae, and death	Defined as no evidence of restenosis or occlusion in the treated SFA segment on color-coded DUS (PSVR < 2.5), as determined at the participating center, no angiographic evidence of restenosis of > 50% if color-coded DUS was unavailable or uninterpretable, or no reintervention in the target lesion	The protocol defined TLR as repeat intervention to maintain or reestablish patency in the stented region	Lesions ≥ 5 cm with no upper limit and lesions beginning 1 cm below SFA origin and ending at least 1 cm proximal to the proximal margin of the intracondylar fossa of femur	33%	74%	56%	SFA	12 months	1 (0.8%)	73%	73%	N/A	N/A	1.92	1–4	190 mm	50–370 mm	No core lab review	Saxon RR, et al. J Vasc Interv Radiol. 2013;24:165–173	VIVA 2011 (first presentation)							
VIASTAR Clinical Trial (Medical University of Vienna [Austria] and Vienna General Hospital [Austria]) Gore Viabahn Endoprosthesis With Propaten Bioactive Surface Versus BNS (Bard LifeStent; Covidien Protégé Everflex; Cordis SMART Control)	Intent-to-treat: 141 (72 in Gore Viabahn device arm, 69 in BNS arm); per protocol: 129 (66 in Gore Viabahn device arm, 63 in BNS arm)	7 centers, randomized	Death, myocardial infarction, study limb amputation, access site and treatment site complications requiring surgery, blood transfusion or prolonged hospital stay within 30 days of the index procedure	No evidence of restenosis ≥ 50% or occlusion within the study lesion based on color-coded DUS with PSVR ≥ 2.5 and no TLR	Clinically driven	Included lesions 10–35 cm in length; no limit on total number of stents used	35% (Viabahn); 36% (BNS)	81% (Viabahn); 81% (BNS)	79% (Viabahn); 70% (BNS)	SFA (Viabahn and BNS)	12-month Gore Viabahn Endoprosthesis	1 (1.4%)	78%	78%	9 (14%)	N/A	N/A	N/A	190 ± 63 mm	N/A	Color Doppler ultrasound examinations were anonymized and blinded before review by the CorLab Bad Krozingen in Bad Krozingen, Germany	Lammer J, et al. J Am Coll Cardiol. Published online July 10, 2013	CIRSE 2012, VEITH 2012, ISET 2013, LINC 2013							
							12-month BNS	1 (1.4%)	54%		54%	13 (21%)	N/A	N/A	N/A	173 ± 66 mm	N/A													
The Zilver PTX Randomized Clinical Study (Cook Medical) Zilver PTX Drug-Eluting Peripheral Stent	479 (236 stent arm)	Multicenter, randomized	CEC-adjudicated death, amputation, clinically driven TLR, target limb ischemia requiring surgical intervention, or surgical repair of the target vessel; worsening of Rutherford score by 2 classes or to class 5 or 6	Duplex ultrasound-derived PSVR < 2 from core lab analysis or < 50% diameter stenosis from arteriographic core lab analysis, when available	Reintervention performed for ≥ 50% diameter stenosis confirmed by angiography within ± 5 mm of the target lesion after documentation of recurrent clinical symptoms of PAD	Maximum of 2 stents/lesion or 4 stents/patient; lesion length ≤ 14 cm	42% (PTA [control] group); 49.2% (PTX [treatment] group)	Rutherford 2–3: 90.7%, Rutherford 4–6: 8.5% (PTA [control] group); Rutherford 2–3: 90.2%, Rutherford 4–6: 8.9% (PTX [treatment] group)	24.7% (PTA [control] group); 29.6% (PTX [treatment] group)	SFA: 92.4%, SFA/popliteal: 2.4%, popliteal: 5.2% (PTA [control] group); SFA: 92.7%, SFA/popliteal: 3.6%, popliteal: 5.5% (PTX [treatment] group)	12-month PTA (control)	17.4%	N/A	32.8%	17.5%	N/A	N/A	N/A	63.1 ± 40.7 mm	N/A	Yes; core lab for angio, x-ray, and ultrasound	Dake MD et al. Circ Cardiovasc Interv. 2011;4:495–504	N/A							
											12-month PTX (treatment)	9.6%	N/A	83.1%	9.5%	0.9% (type I, 2; type II, 0; type III, 2; type IV, 0)	1.5 stents/patient	1–4 stents/patient	66.4 ± 38.9 mm	≤ 14 cm										
											24-month PTA (control)	22.1%	N/A	26.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes; core lab for angio, x-ray, and ultrasound	Dake MD et al. J Am Coll Cardiol. 2013;61:2417–2427	N/A
											24-month PTX (treatment)	13.4%	N/A	74.8%	13.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
											36-month standard care (optimal PTA + BMS)	N/A	N/A	49.1%	29.8%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes; core lab for angio, x-ray, and ultrasound
36-month (Zilver PTX)	N/A	N/A	70.7%	16.3%	2.1% (type I, 4; type II, 0; type III, 3; type IV, 0)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A													
The Zilver PTX Single-Arm Study (Cook Medical) Zilver PTX Drug-Eluting Peripheral Stent	787	Multicenter, OPC	CEC-adjudicated procedure- or device-related death, clinically driven TLR, target limb ischemia requiring surgical intervention, or surgical repair of the target vessel; worsening of Rutherford classification by 2 classes or to class 5 or 6	PSVR < 2.5	Reintervention for >50% diameter stenosis within 5 mm of the study segment after documentation of recurrent clinical symptoms of PAD	Maximum of 4 DES/patient; no lesion length limit	36.2%	N/A	38.3%	SFA/popliteal	12 months	11.0%	N/A	86.2%	9.5%	1.5% (type I, 1; type II, 5; type III, 2; type IV, 14)	1.9 stents/lesion; 2.2 stents/patient	1–4 DES	99.5 ± 82.1 mm	3–400 mm	Core lab for x-ray	Dake MD, et al. J Endovasc Ther. 2011;18:613–623	N/A							
											24 months	20.7%	N/A	N/A	19.5%	N/A	N/A	N/A	N/A	N/A				N/A	N/A	N/A	N/A	N/A	N/A	

ABI, ankle-brachial index; BMS, bare-metal stent; BNS, bare-nitinol stent; DES, drug-eluting stent; DUS, duplex ultrasound; PSVR, peak systolic velocity ratio; TLR, target lesion revascularization.

^aStudy safety and effectiveness outcomes were compared with performance goals developed by VPI; the objective of the study was to evaluate the safety and efficacy of a single self-expanding stent up to 20 cm.

^bPer the DURABILITY II protocol, patients were included if they had Rutherford Clinical Category Score of 2, 3, or 4. One patient was enrolled with RCC 5, a protocol deviation.

^cPresented % occlusion, not necessarily chronic total occlusions.

^dDefined as MACE in RESILIENT (major adverse clinical event).