

Ordering information			Compliance data	
Catalogue n umber	Balloon di ameter (mm)	Balloon length (mm)	Nominal pressure (atm)	Rated burst pressure (atm)
2322-2010	2.0	10	8	20
2322-2015	2.0	15	8	20
2322-2020	2.0	20	8	20
2322-2510	2.5	10	8	20
2322-2515	2.5	15	8	20
2322-2520	2.5	20	8	20
2322-3010	3.0	10	8	18
2322-3015	3.0	15	8	18
2322-3020	3.0	20	8	18
2322-3510	3.5	10	10	16
2322-3515	3.5	15	10	16
2322-3520	3.5	20	10	16

Technical data		
rug	Paclitaxel	
ose	3 μg/mm²	
xcipient	NDGA	
atheter usable length	137 cm	
uidewire compatibility	0.014"	
uide catheter compatibility	6 F	
umber of nitinol scoring elements	3	
itinol scoring element thickness	0.005"	
rachial marker location	90 cm	
emoral marker location	100 cm	
naft design	Rapid exchange	

Important safety information

AngioSculptX Drug-Coated PTCA Scoring Balloon Catheter is a standard PTCA catheter with a scoring balloon near the distal tip. The distal end of the catheter has a conventional nylon-blend balloon and a nitinol scoring element with three spiral struts that wrap around the balloon. The struts create focal concentrations of dilating force, which minimize balloon slippage and assist in the luminal expansion of stenotic arteries. The scoring balloon is coated with a specialized formulation that includes the antiproliferative drug, paclitaxel. The drug-coated scoring balloon is designed to expand to a balloon portion of the specified diameter and length at a specified pressure. Conventional radiopaque markers aid in positioning the balloon in the stenosis.

The AngioSculptX Drug-Coated PTCA Scoring Balloon is indicated for the treatment of hemodynamically significant coronary artery stenosis, including in-stent restenosis, for the purpose of improving myocardial perfusion.

- The AngioSculptX catheter should not be used for the following:
- Coronary artery lesions unsuitable for treatment by percutaneous revascularization. not re-use the AngioSculptX catheter to dilate additional lesions.
- Coronary artery spasm in the absence of a significant stenosis. Patients with known hypersensitivity to paclitaxel or paclitaxel related compounds.
- Women who are breastfeeding, pregnant, or are intending to become pregnant or men intending to father children.

- To reduce the potential for vessel damage, the inflated diameter of the balloon should approximate the diameter of the vessel just proximal and distal to the stenosis. PTCA in patients who are not acceptable candidates for coronary artery bypass graft
- surgery requires careful consideration, including possible hemodynamic support during PTCA, as treatment of this patient population carries special risk. When the catheter is exposed to the vascular system, it should be manipulated while under high quality fluoroscopic observation. Do not advance or retract the
- catheter unless the balloon is fully deflated under vacuum. If resistance is met during manipulation, determine the cause of the resistance before proceeding. Do not exceed the rated burst pressure (RBP) during balloon inflation. The RBP is based on results of in-vitro testing. At least 99.9% of the balloons (with 95%
- confidence) will not burst at or below their RBP. Use of a pressure monitoring device is recommended to prevent over-pressurization. PTCA should only be performed at hospitals where emergency coronary artery bypass graft surgery can be quickly performed in the event of a potential
- cardiovascular injury or life-threatening complication. Use only the recommended balloon inflation medium. Never use air or any gaseous medium to inflate the balloon.
- Proceed cautiously when using the AngioSculptX catheter in a freshly deployed stent. The AngioSculptX catheter has not been tested for post-dilatation of stents or lesions distal to freshly deployed stents in clinical studies.
- Use the device prior to the expiration date specified on the package.

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- · Do not immerse the AngioSculptX catheter in a saline bath. Contact with fluids prior to insertion may compromise therapeutic drug delivery. In order to ensure therapeutic 1. Fonseca AG, Abizaid AS, Abizaid A et al. A Novel Scoring Balloon (AngioSculpt) for drug delivery, replace any device where the balloon has come into contact with fluids
- The AngioSculptX catheter should be handled with dry sterile gloves whenever possible prior to use. Care should be taken to minimize contact with the coated
- AngioSculptX catheter during preparation and insertion.
- To ensure therapeutic drug delivery:
- Never inflate the AngioSculptX catheter prior to reaching the target lesion. The AngioSculptX catheter should be advanced to the target site in an efficient
- manner (i.e. ≤ 3 minutes) and immediately inflated. Maintain balloon inflation for a minimum of 30 seconds.
- Predilatation of the lesion with an uncoated standard PTCA balloon should be
- Always advance and retrieve the AngioSculptX catheter under negative pressure.
- Whenever possible, the AngioSculptX catheter should be the final treatment of the vessel. The AngioSculptX catheter is intended to treat a single lesion in a single patient; do
- Prior to angioplasty, examine the catheter to verify functionality, catheter integrity Patients who cannot receive recommended anti-platelet and/or anticoagulant and to ensure that its size and length are suitable for the specific lesion for which it is
 - Only physicians trained in the performance of percutaneous transluminal coronary angioplasty should use the AngioSculptX catheter.
 - Appropriate dual antiplatelet, anticoagulant and coronary vasodilator therapy should be administered before, during, and after treatment with the AngioSculptX catheter. Antiplatelet therapy for less than 3 months following treatment with the AngioSculptX catheter has not been studied and patients in the first-in-human study were administered dual antiplatelet therapy consisting of aspirin plus either
 - clopidogrel or ticlopidine for a minimum of 3 months following treatment with the · Do not rotate the catheter shaft in excess of 180 degrees when the tip is constrained.
 - Do not rotate the catheter luer hub in excess of five (5) turns during use. Do not advance or retract the AngioSculptX catheter over the floppy portion of the
 - Catheter manipulation, including advancement and retraction, should be performed
 - by grasping the hypotube shaft.
 - · If unusual resistance is felt when the catheter is being manipulated or if it is
 - suspected that the guide wire has become kinked, carefully remove the entire catheter system (AngioSculptX catheter and steerable guide wire) as a unit. If fluoroscopic guidance indicates that the AngioSculptX catheter has advanced beyond the end of the guide wire, withdraw the catheter and reload the wire before
 - advancing again. It is not recommended that the AngioSculptX catheter be used in conjunction with other drug coated balloons or drug eluting stents to treat the same lesion in the same procedure or within 90 days. The safety of combinations of different drug-device
 - DO NOT resterilize or reuse this device, as these actions can compromise device
 - performance or increase the risk of cross contamination due to inappropriate reprocessing Reuse of this single use device could lead to serious patient injury or death and voids
 - manufacturer warranties.

products has not been assessed

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- 4. Mooney M, Teirstein P, Moses J et al. Final Results from the U.S. Multi-Center Trial of the AngioSculpt Scoring Balloon Catheter for the Treatment of Complex Coronary Artery Lesions. American Journal of Cardiology, October 2006; Vol. 98, Issue 8, Supplement: 121M.
- i. Takano M, Yamamoto M, Murakami D et al. Optical Coherence Tomography After New Scoring Balloon Angioplasty for In-Stent Restenosis and De Novo Coronary Lesions. Int J. Cardiol. 2008. 11. 154
- 6. Weisz G, Metzger DC, Liberman HA, O'Shaughnessy CD, Douglas JS, Turco MA, Mehran R, Gershony G, Leon MB, Moses JW. A provisional strategy for treating true bifurcation lesions employing a scoring balloon for the side branch: Final Results of the AGILITY Trial. Catheterization and Cardiovascular Interventions 2013;82(3):352-359.
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AngioSculptX

Drug-coated PTCA scoring



One device. Two technologies.

AngioSculptX is a unique combination of the trusted antirestenotic action of Paclitaxel and proven capabilities of its scoring platform for:



3 μg/mm² ptx coating

minimum 30-second inflation

Potential for better drug uptake

The unique scoring mechanism of the AngioSculptX catheter is designed for lumen gain improvement through controlled dissection with enhanced drug

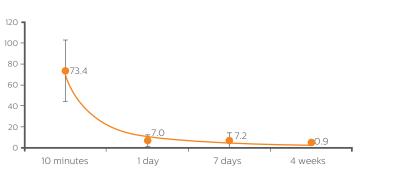
Proprietary anti-restenotic formulation

- 3 µg/mm² Paclitaxel
- NDGA excipient to facilitate drug transfer to tissue*

Targeted drug delivery by scoring

- Minimizes balloon slippage to enable accurate balloon positioning^{1,3,4}
- Stable inflation prevents inadvertent movement when coating is in contact with vessel^{1,3,4}

Pharmacokinetics³



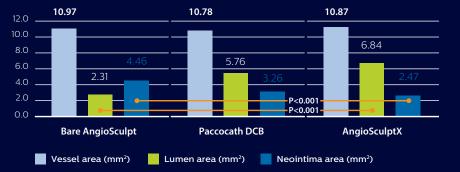
- Demonstrated desired drug tissue transfer
- Efficacious tissue drug dose through 28 days
- · Proven transfer of paclitaxel from the balloon to the artery wall
- NDGA rapidly metabolized by body and not detected at any time points in tissue

PATENT-C trial results demonstrated a significant improvement in late lumen loss (LLL) target lesion revascularization (TLR) and major adverse cardiac events (MACE) at 6-months and 24-months in the treatment of in-stent restenosis (ISR).89

Improving acute and long term outcomes while leaving nothing behind

Predictable acute results through stable, no-slip dilatation and large lumen gain. Sustained antirestenotic effect by enhanced drug

Pre-clinical testing: AngioSculptX catheter vs. bare AngioSculpt vs. competitive DCB7



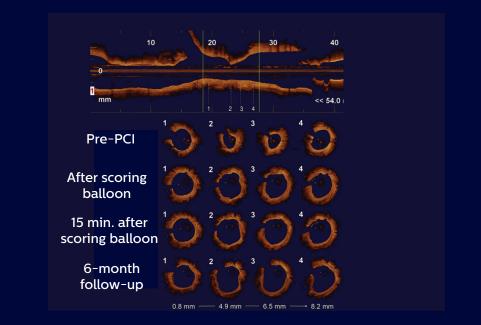
The AngioSculptX catheter significantly increases lumen area, decreases neointimal area vs. bare AngioSculpt without vessel overstretching and shows potential for similar benefit vs. DCB in an animal model.

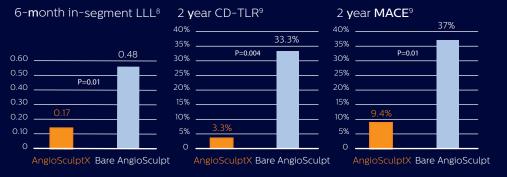
PATENT-C: Proven long-term performance through randomized controlled trial8

PATENT-C **s**tudy **d**esign

- Randomized controlled trial of AngioSculptX catheter vs. bare AngioSculpt catheter for the treatment of bare metal stent ISR (61 pts)
- Multi-center: 4 sites. Germany (3) and Brazil (1)
- Independent QCA corelab
- · Independent clinical event adjudication by Clinical Event Committee
- Primary endpoint: angiographic in-segment late lumen loss (LLL)
- Secondary endpoints: clinically driven TLR, composite MACE, stent thrombosis and other variables

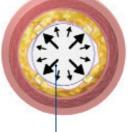
PATENT-C: Acute and **s**ustained **l**uminal **g**ain in ISR





At 2 years, significant reduction in clinically-driven TLR and MACE rates

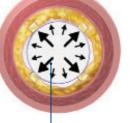
device in place, stabilizing inflation^{1,2} during drug delivery.



 \sim 15 – 25x scoring force

Minimize geographical-miss

Helical scoring elements lock the



Nitinol elements deliver 15–25 times the force of a conventional balloon³.



~1x force post scoring

Optimize balloon to vessel contact

Uniform luminal enlargement

perforations^{1,2}, no flow-limiting dissections^{5,6}

Low rate of adjunctive stenting

Low dissection** rate and minimal

* Data on file at Spectranetics ** <9% to 13.6% dissection rate with AngioSculpt vs. >30% for conventional POBA animal pK Study