

Paclitaxel Coated Coronary Balloon Dilatation Catheter







Taking DCB Technology to a New High

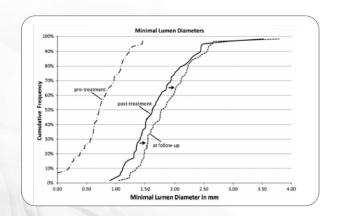




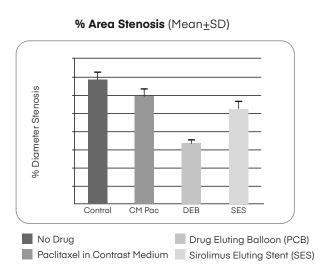
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PACLITAXEL – Drug of Choice for DCB in Coronary **Interventions with Large Clinical Evidence***

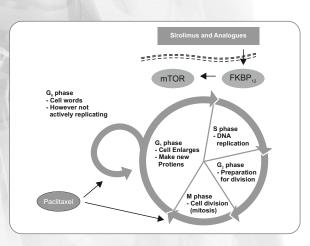
Positive vessel remodeling with late lumen enlargement**



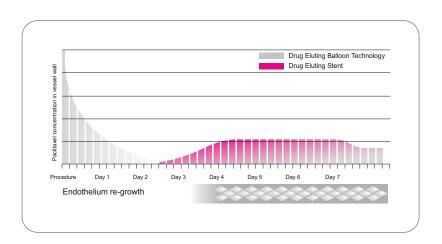
Quicker vessel healing and faster reendothelialization***



Apoptotic effect of Paclitaxel reduces toxicity****



Higher absorption into vessel wall

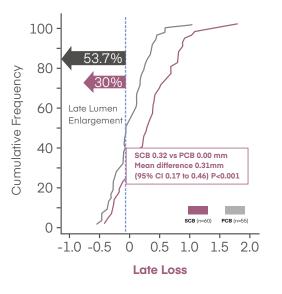


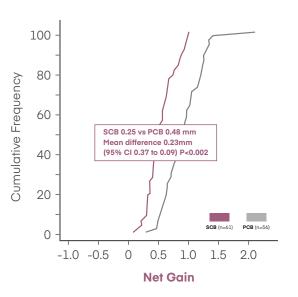




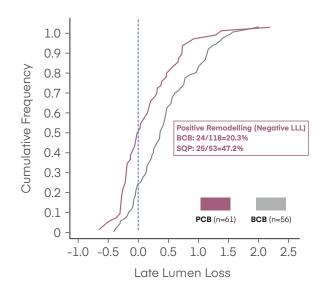
Paclitaxel proven more Efficacious than Limus as a choice of Drug in DCB

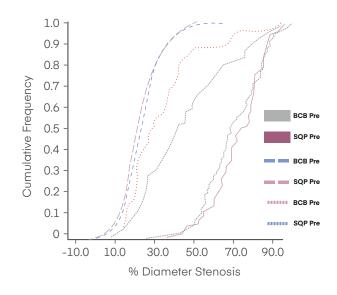
▶ Paclitaxel Coated Balloon (PCB) showed superiority over Sirolimus Coated Balloon (SCB) in a Randomized Controlled Trial*





▶ PCB demonstrated superior anti restonotic efficacy than Biolimus Coated Balloon (BCB)**





*European Heart Journal (2018)00, 1-23 Doi:10.1093/eurhearti/ehy394 **Clin Res Cardiol. 2015; 104: 217-25

^{**}Speck, U., et al. (2006). "Neointima Inhibition: Comparison of Non-Stent-based Local Drug Delivery and a Drug-eluting Stent in Porcine Coronary Arteries." RSNA. ****Biotechnology and Bioprocess Engineering 17: 912-924 (2012) DOI 10.1007/s12257-011-0571-z,

^{*}Ninomiya, K. et al. (2023), Sirolimus-Coated vs. Paclitaxel-Coated Balloon in Small Vessels, J Am Coll Cardiol Intv. 16(23), 2884–2896, doi:10.1016/j.icin.2023.09.026 *Raynor, B. P. et al. (2023). Biolimus A9th DCB for In-Stent Restenosis: REFORM Trial Design. Cardiovasc Revasc Med, 56, 75–81. doi:10.1016/j.carrev.2023.06.004

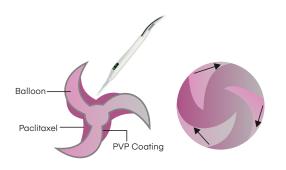


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UNIQUE DRUG APPLICATION

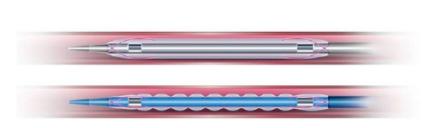


During the production process the balloon material is inflated & folded



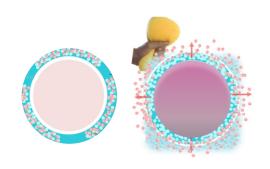
Paclitaxel is applied within the folds of a PVP-coated (hydrophilic) balloon, reducing exposure and preventing loss prior to inflation

WING SEAL TECHNOLOGY



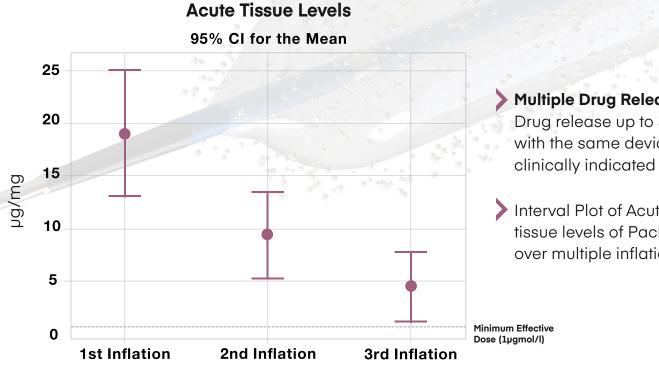
- > Protects the drug between the balloon folds during advancement, resulting in negligible drug loss prior to inflation
- > The corrugation increases flexibility of the balloon ensuring better trackability & crossability
- Tight wrapping prevents the balloon unfolding during advancement

DRUG RELEASE



- > The coating acts as sponge which elutes the drug only when pressure is applied
- Paclitaxel is released from the coating after first inflation to the target vessel

M3i TECHNOLOGY



- Multiple Drug Release* Drug release up to 3 times with the same device when
- Interval Plot of Acute tissue levels of Paclitaxel over multiple inflations

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PEARL STUDY*

Proven safety and efficacy of the Protégé in real-world PCI of In-Stent Restenosis (ISR) and De Novo Lesions



- ➤ Highly Complex Lesion classified type C 36%
- > Prior PCI **86.4%**
- > ISR DES 60.4%
- > Diabetes 28.3%

Conclusions: at 2 Years Follow-Up



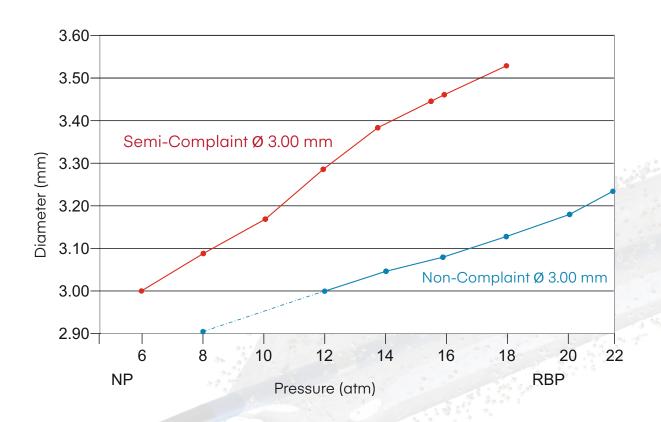
At 2 years MACE rates after DCB for De Novo Lesions was **9.7%** showing better efficacy and safety At 2 years MACE driven by TLR in patients treated for ISR was (11.7%) & for De Novo Lesions (2.9%) which is lower compared to the reported incidence rates in ISR patients (>15%)



Protégé NC

Paclitaxel Coated Coronary Balloon Dilatation Catheter

- > World's Only Non-Complaint Drug Coated Balloon Catheter
- Linear Expansion with no over growth at high pressure
- NC balloons minimize dissection in complex lesion subset compared to SC balloons*
- For the treatment of ISR and lesions difficult to dilate
- ➤ Higher strength than Semi-Compliant DCB**



*Desmet, W. J., De Scheerder, I. K., Barrios, L., & Piessens, J. H. (1997). Catheter Cardiovasc Diagn, 41(1), 5–11.

**Amstutz, C., Behr, J., Krebs, S., Haeberlin, A., Vogel, R., Zurbuchen, A., & Burge, J. (2023). BioMedical Engineering OnLine, 22(94)

SIZE CATHETER



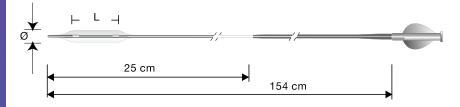
PROTÉGÉ - DCB CATHETER

L	2.00	2.50	3.00	3.50	4.00
10	PRO2010	PRO2510	PRO3010	PRO3510	PRO4010
15	PRO2015	PRO2515	PRO3015	PRO3515	PRO4015
20	PRO2020	PRO2520	PRO3020	PRO3520	PRO4020
30	PRO2030	PRO2530	PRO3030	PRO3530	PRO4030

PROTÉGÉ NC - DCB CATHETER

LØ	2.50	2.75	3.00	3.25	3.50	4.00	4.50
10	PNC2510	PNC2710	PNC3010	PNC3210	PNC3510	PNC4010	PNC4510
15	PNC2515	PNC2715	PNC3015	PNC3215	PNC3515	PNC4015	PNC4515
20	PNC2520	PNC2720	PNC3020	PNC3220	PNC3520	PNC4020	PNC4520

(Ø = Diameter, L = Length)



TECHNICAL SPECIFICATIONS

PROTÉGÉ - DCB CATHETER PROTÉGÉ NC - DCB CATHETER

Nominal Pressure	6 bar	12 bar		
Rated Burst Pressure	16 bar (Ø 4,0= 13 bar)	Ø 2.50 - 2.75: 22 bar Ø 3.00 - 3.50: 20 bar Ø 4.00 - 4.50: 18 bar		
Folding	3-folds WingSeal	3-folds WingSeal		
Drug	Paclitaxel 3 μg/mm²(drug loaded balloon surface)	Paclitaxel 3 μg/mm² (drug loaded balloon surface)		
Guiding catheter compatibility	5F	5F		
Guide wire compatibility	0.014" (0.36mm)	0.014" (0.36mm)		
Catheter type	Rapid Exchange	Rapid Exchange		
Usable length	154 cm	154 cm		
Catheter Coating	Hydrophilic coating	Hydrophilic coating		

C € 2797

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Indications, contraindications,
warnings and instruction for use
can be found in the product
labeling

⚠ Caution- Restricted to sale by or on the order of a physician









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