## Protégé

Paclitaxel Coated Coronary Balloon Dilatation Catheter

### Proven safety and efficacy of the Protégé\*

In real-world PCI of In-Stent Restenosis (ISR) and De Novo Lesions

>500 **Complex Patient Subset Including** ACS

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

### **Conclusions:** at 2 Years Follow-Up

Protege Paclitaxel DCB is proven safe and effective in patients treated for ISR and De Novo Lesions

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

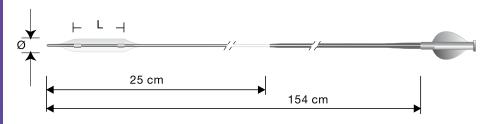
reported incidence rates in ISR patients (>15%)

### **SIZE CATHETER**



#### 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



### TECHNICAL SPECIFICATIONS

Nominal Pressure12 barRated Burst PressureØ 2.50 - 2.75: 22 bar Ø 3.00 - 3.50: 20 bar Ø 4.00 - 4.50: 18 barFolding3-folds WingSealDrugPaclitaxel 3 μg/mm² (drug loaded balloon surface)Guiding catheter compatibility5FGuide wire compatibility0.014" (0.36mm)Catheter typeRapid ExchangeUsable length154 cm		PROTÉGÉ NC - DCB CATHETER			
Folding 3-folds WingSeal  Drug Paclitaxel 3 µg/mm² (drug loaded balloon surface)  Guiding catheter compatibility 5F  Guide wire compatibility 0.014" (0.36mm)  Catheter type Rapid Exchange	Nominal Pressure	12 bar			
Drug Paclitaxel 3 µg/mm² (drug loaded balloon surface)  Guiding catheter compatibility 5F  Guide wire compatibility 0.014" (0.36mm)  Catheter type Rapid Exchange	Rated Burst Pressure	Ø 2.50 - 2.75: 22 bar Ø 3.00 - 3.50: 20 bar Ø 4.00 - 4.50: 18 bar			
Guiding catheter compatibility 5F  Guide wire compatibility 0.014" (0.36mm)  Catheter type Rapid Exchange	Folding	3-folds WingSeal			
Guide wire compatibility 0.014" (0.36mm)  Catheter type Rapid Exchange	Drug	Paclitaxel 3 µg/mm² (drug loaded balloon surface)			
Catheter type Rapid Exchange	Guiding catheter compatibility	5F			
	Guide wire compatibility	0.014" (0.36mm)			
Usable length 154 cm	Catheter type	Rapid Exchange			
	Usable length	154 cm			
Catheter Coating Hydrophilic coating	Catheter Coating	Hydrophilic coating			

### **C** € 2797



Phone: +31 (0) 492588900 can be found in the product

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







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# Protégé NC

Paclitaxel Coated Coronary Balloon **Dilatation Catheter** 





Taking **DCB Technology** to a New High





## Protégé NC

Paclitaxel Coated Coronary Balloon Dilatation Catheter

### **WORLD'S ONLY NON-COMPLAINT DCB**

- 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\*\*

### **PACLITAXEL**

- > Drug of Choice for DCB with Large Clinical Evidence<sup>1</sup>
- > Positive vessel remodelling with late lumen enlargement<sup>2</sup>
- Quicker vessel healing and faster reendothelialization<sup>3</sup>
- ▶ Apoptotic effect of Paclitaxel reduces toxicity<sup>4</sup>
- Higher absorption into vessel wall



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

3. 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.
4. Biotechnology and Bioprocess Engineering 17: 912-924 (2012) DOI 10.1007/s12257-011-0571-z,
Scheller B, Vukadinovic D, Jeger R, et al. Survival After Coronary Revascularization With Paclitaxel-Coated Balloons. J Am Coll Cardiol. 2020;75(9):1017-1028.

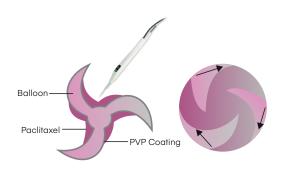
\*Desmet, W. J., De Scheerder, I. K., Barrios, L., & Piessens, J. H. (1997). Catheter Cardiovasc Diagn, 41(1), 5–11.

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

### **UNIQUE DRUG APPLICATION**

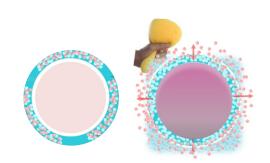


During the production process the balloon material is inflated & folded



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

### **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

### **WINGSEAL TECHNOLOGY**



Protects the drug between the balloon folds during advancement, resulting in negligible drug loss prior to inflation

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- The corrugation increases flexibility of the balloon ensuring better trackability & crossability
- Tight wrapping prevents the balloon unfolding during advancement

### **M3i TECHNOLOGY**

#### **Acute Tissue Levels** 95% CI for the Mean Multiple Drug Release\* 20 Drug release up to 3 times with the same device when clinically indicated 15 Interval Plot of Acute 10 tissue levels of Paclitaxel over multiple inflations Dose (1µgmol/l) 1st Inflation 2nd Inflation 3rd Inflation

\*Internal Data