Sirolimus Eluting Coronary Stent System

Yukon® Choice PC

The new Biodegradable Polymer DES

Translumina – Prevent your Stent Thrombosis
The Translumina Yukon Choice PC drug-eluting stent, coated with Rapamycin (Sirolimus) and the biodegradable components polylactide and shellac, has an excellent history of pre-clinical and clinical results.[1,2]

In two independent trials ISAR-TEST 3 and ISAR-TEST 4 the Yukon Choice PC showed angiographic and clinical equivalence with the Cypher stent after 1 year and 3 years of follow-up.[3,4]

Latest clinical data, published by G. Stefanini et al [5], show the excellent long-term outcome of the Yukon Choice PC in a meta-analysis, comparing the clinical outcome after 4 years in more than 4000 patients with the Cypher stent. This analysis shows for the first time that the definite Very Late Stent Thrombosis (VLST) can be reduced statistically significant by using the biodegradable PLA polymer coating technology of the Yukon Choice PC.

Figure 1: Optical and Electron Microscope Pictures of the Yukon Choice PC. The unique microporous stent surface is coated abulinal with Sirolimus, PLA and Shellac. The combination of PLA and Shellac ensures a better binding to the surface and reduces polymer flaking after stent expansion.

Figure 2: OCT follow-up 3 years after implantation of a Yukon Choice PC.
Pre-Clinical Data [1]

Extensive pre-clinical evaluations prove the safety of Yukon Choice PC over BMS and conventional DES:

Yukon Choice PC shows a release of sirolimus up to 4 weeks with a significant tissue concentration in the arterial segments.

Yukon Choice PC shows a reduced neointimal formation compared to a bare metal stent without compromising vascular healing.

Safety of the BMS Platform [2]

The microporous surface of the Yukon Choice PC is well studied for its efficacy and safety when compared to electropolished surface:

Comparison of smooth (electro-polished) stent surface (A) and rough (microstructured) stent surface (B). Magnification, 500x.

The microporous surface shows a trend towards a reduced rate of binary restenosis with equivalent safety, which proves that it is safe and feasible to use as a drug reservoir for a DES.

Literature

One of the largest meta-analysis involving more than 4000 patients, which compared biodegradable polymer based DES with permanent polymer based DES demonstrated the long term excellent safety profile of the Yukon Choice PC up to 4 years.

The ISAR-TEST 4 is the first prospective randomized trial which compares different DES i.e. Yukon Choice PC, Xience and Cypher for their efficacy & safety in over 2600 patients.

The Yukon Choice PC with biodegradable polymer proves equivalence to Xience and Cypher in terms of late loss, binary restenosis, TLR and primary composite MACE despite having minimal polymeric load.

Long Term Safety [5]

One of the largest meta-analysis involving more than 4000 patients, which compared biodegradable polymer based DES with permanent polymer based DES demonstrated the long term excellent safety profile of the Yukon Choice PC up to 4 years.

At 4 years follow-up, the Yukon Choice PC shows a reduction of risk by 50% in definite Stent Thrombosis and by 78% in Very Late Stent Thrombosis (VLST) compared to First Generation DES without compromising on efficacy.
The Biodegradable Polymer DES now with a lot of new features

The new stent delivery system

The new distal shaft
Our high performance shaft consisting of a new material provides excellent pushability and kink resistance. This feature allows for high manoeuvrability.

The new flexible tip
The soft tip material combined with an improved robust segment ensures perfect crossability and trackability. This feature allows easy access to all lesions.

The new designed luer
The transparent luer has a positive, tactile feel assisting in navigation of the system. It is designed with an integrated protection to minimize any kinking.

Stent features

**Unique stent surface**
The micro-porous stent surface, called PEARL Surface, favours better endothelialisation, which is essential in avoiding thrombosis and restenosis.

**Stent design**
- homogeneous expansion
- increased radial force
- good side branch access

**Low stent profile**
- flexible and deliverable

Technical specifications of the stent

Medical Stainless Steel, 316 LVM, Surface containing micro-pores

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Crossing profile</td>
<td>0.035&quot; / 0.89 mm (Ø 2.5 mm)</td>
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<tr>
<td>Strut thickness</td>
<td>0.0034&quot; / 87 µm (Ø 2.5 mm)</td>
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<tr>
<td>Metallic surface area</td>
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<tr>
<td>No foreshortening</td>
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<tr>
<td>Balloon marker material</td>
<td>Platinum / Iridium</td>
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<td>Entry profile</td>
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<td>Proximal shaft diameter</td>
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<td>Distal shaft diameter</td>
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<td>Recommended guide wire</td>
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<tr>
<td>Guiding Catheter</td>
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Sirolimus Eluting Coronary Stent System

Yukon Choice PC

Product matrix / Ordering information*

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<tr>
<th>Balloon Ø [mm]</th>
<th>Stent length [mm] &amp; Article number</th>
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* Please contact our customer service for available sizes

Compliance chart

<table>
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<tr>
<th>Balloon Ø [mm]</th>
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<td>Ø 4,00</td>
<td>3,85 3,90 3,95 4,00 4,05 4,10 4,16 4,21 4,26 4,31</td>
</tr>
</tbody>
</table>

* calculated

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