Complex bifurcation treatment in high bleeding risk patients via transradial approach

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X I have the following potential conflicts of interest to report:

x Consulting: Abbott Vascular, Biotronik

x Others: Lecture and Education honoraria Abbott Vascular, Biotronik, Boston Scientific, Medtronic, Terumo
Learning Objectives

To understand the best treatment for patients presenting with complex bifurcation lesions, how to optimize both strategy and technique

To share Ultimaster DES results in bifurcation

To discuss how to optimize MVD HBR patient management, including DAPT
**Slender technology:**

- Allows 1Fr size reduction in outer diameter
- Maintains larger inner lumen diameter
- Reduce the need to upsize to a larger sheath
**Products Used: Runthrough NS**

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<th>Support</th>
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<td>0.6 gf</td>
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<tr>
<td>Runthrough NS Floppy</td>
<td>1 gf</td>
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<td>Runthrough NS Hypercoat</td>
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<td>Runthrough NS Intermediate</td>
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<td>Crossing: Diffuse lesions and side branch</td>
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**For simple or challenging lesions**
- The directly jointed stainless steel and nitinol shaft provides a superior torque transmission.
- The nitinol alloy core to tip ensures a superior durable shaping memory.
- The “M Coat” hydrophilic coating enables smooth manipulation even in tortuous anatomy.
Products Used: Finecross Microcatheter

Superior crossability and optimal guidewire support

- Tapered inner and outer diameters, from 2.6 Fr to 1.8 Fr over the entire length for greater lesion crossability.
- A fully stainless steel braided shaft provides strong guidewire support
- PTFE inner layer to allow smooth guidewire handling with less resistance and to facilitate during complex procedures.
- Hydrophilic coating and flexible distal segment to enable advancement and access through distal tortuous vessels.
- A 2.6 Fr proximal diameter allows the buddy wire technique in a 6 Fr guiding catheter
- Large inner diameter for optimal guidewire handling
Combining key features to treat the most complex lesions

- Optimal crossability and pushability:
  - Lowest entry profile ever made (0.40 mm)
  - Famous Terumo hydrophilic coating
  - Good tip flexibility

**Balloon size**
- Diameter 1.25 - 3.00mm
- Length 10/15/20mm

**Shaft diameter**
- 1.9 Fr Proximal
- 2.4 - 2.5 Fr Distal

**Usable length**
- 145 cm

**NP / RBP**
- 6 atm / 14 atm

**Entry profile**
- 0.40 mm
Products Used: Accuforce NC Balloon

High pressure resistance up to 22 ATM
Innovative triple layer technology:
• Soft Inner and outer elastomer layers offer resistance to high pressure from the inside and against damage to the outside
• Stronger middle layer in polyamide, which provides an additional and safer\(^1\) high pressure resistance required for several calcified lesions

Accurate Pre- & post-dilatation
• Shorter and rounded balloon shoulders only target lesions and stents for effective and focused dilatation
• The additional elastomer layer compared to a traditional double layer balloon structure provides safer high-pressure dilatation\(^1\) with low compliance\(^2\)

| Balloon size | Diameter 2.00 - 5.00mm  
Length 6/8/12/15/20/25/30mm |
|--------------|--------------------------------------------------|
| Shaft diameter | 1.9 Fr Proximal  
2.6 Fr Distal |
| Usable length | 145 cm |
| NP / RBP      | 12 atm / up to 22 atm |
Products Used: Ultimaster DES

No drug coating on parts of the stent that experience the most physical stress, preventing cracking and delamination.

Drug delivered specifically where needed: the abluminal side.

80 µm CoCr struts

Sirolimus 3.9 µg/mm stent

PDLLA-PCL polymer resorption time 3–4 months

Drug release kinetics match the biological response.
Products Used: Ultimaster DES

- **Stent deliverability**
- **Vascular repair**
- **Challenging cases**

**Bifurcation**
- 2-link design for excellent side-branch access
- Gradient coating for polymer integrity
- Allows overexpansion

**A solution for any lesion**
- Diameters from 2.25 mm to 4.00 mm
- Lengths from 9 mm to 38 mm
Products Used: TR Band

Selective compression of the radial artery
- Allows venous blood return and preserves vessel patency
- Patent haemostasis using the TR Band® results in a significant reduction in RAO²

Transparent band
- Allows visual control of the puncture site

Kind to patients
- Comfortable for patients³
- Two band sizes available for precise fit¹