The Piculet® recanalization device for peripheral CTO

Y. Gouëffic, MD, PhD

Department of vascular surgery, University Hospital of Nantes, France
Potential conflicts of interest

Speaker's name: Yann Goueffic

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

Consultant: COOK, MEDINOL, MEDTRONIC, PEROUSE.
TASC C and D ilio-femoral lesions: challenging cases

CLI by alteration of the re-entry

>15-cm Popliteal involvement
Stenoses – occlusions
Calcifications

Entry / Re-entry
Intra and subintimal
Long balloons - stents
Intraluminal strategies for CTO

**Intraluminal**

First line of CTO devices for intraluminal recanalization

- Support catheter + CTO guidewire

Second line of CTO devices for intraluminal recanalization

To improve crossing rates and crossing times
Non proved with a real advantage

- Frontrunner® (Cordis)
- Enabler-P® (Endcross)
- Wildcat® (Avinger)
- Crosser® (Bard)
- Excimer laser® (spectranetics)

Mechanical crossing devices
Radiofrequency
Laser

<table>
<thead>
<tr>
<th></th>
<th>SFA lesions (n, length)</th>
<th>Successful crossing (%)</th>
<th>Mean activation time (min)</th>
<th>Mean fluoroscopy time (min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frontrunner®</td>
<td>26 - 17.6 cm</td>
<td>65</td>
<td>/</td>
<td>22.9</td>
</tr>
<tr>
<td>Enabler-P®</td>
<td>37 – 8.6 cm</td>
<td>86</td>
<td>5.3</td>
<td>/</td>
</tr>
<tr>
<td>Wildcat®</td>
<td>88 – 174 cm</td>
<td>89</td>
<td>22.1</td>
<td></td>
</tr>
<tr>
<td>Crosser®</td>
<td>12 – 26 cm</td>
<td>75</td>
<td>4</td>
<td>/</td>
</tr>
<tr>
<td>Excimer®</td>
<td>452 - 25.5 cm</td>
<td>85.5</td>
<td>/</td>
<td>/</td>
</tr>
</tbody>
</table>

PICULET™

To deliver a high-frequency hammering force to a guide wire via a metallic catheter tip, thereby breaking calcific CTOs in the peripheral vasculature and creating “true-lumen” recanalization.

- 6F compatible catheter
- Ergonomic handle
- 90-130 cm working length
- OTW catheter
- Radioopaque tip

Adjustable amplitude and frequency
De novo iliac occlusion

Left iliac chronic total occlusion
Left retrograde femoral approach
ISR femoropopliteal occlusion
Take home messages

- Piculet is easy to use and promising CTO device in a first line or a second line strategy after failure of regular CTO repair

- Efficacy in term of technical success, procedure, duration and cost should be prospectively compared to first line of CTO devices
The Piculet® recanalization device for peripheral CTO

Y. Gouëffic, MD, PhD
Department of vascular surgery, University Hospital of Nantes, France