PTS and DVT case with Abre Venous Stent System

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Disclosure

I have the following potential conflicts of interest to report:

- Receipt of grants/research support
  
  *Medtronic, BD BARD, Cook, Ab medica, Bentley, Optimed, BTG*

- Receipt of honoraria and travel support
  
  *Medtronic, BD BARD, Cook, Ab medica, Bentley, Optimed, BTG*
Introduction

- Self expandable, open-cell nitinol stent
Key requirements

- **Strength:** ability to withstand recoil of fibrotic lesions and external compression
- **Flexibility:** ability to conform smoothly to highly tortuous vessels
- **Easy Deployment:** easy, precise and predictable stent placement
- **Good visualization:** radiopaque markers for precise deployment
- **Size:** large diameters with a variety of lengths

<table>
<thead>
<tr>
<th>Stent diameter (mm)</th>
<th>Estimated anatomic vessel diameter (mm)</th>
<th>Stent length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>7.5–9.5</td>
<td>40, 60, 80, 100, 120, 150</td>
</tr>
<tr>
<td>12</td>
<td>9.5–11.5</td>
<td>60, 80, 100, 120, 150</td>
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<tr>
<td>14</td>
<td>11.5–13.5</td>
<td>60, 80, 100, 120, 150</td>
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<tr>
<td>16</td>
<td>13.5–15.5</td>
<td>60, 80, 100, 120, 150</td>
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<td>18</td>
<td>15.5–17.5</td>
<td>60, 80, 100, 120, 150</td>
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<tr>
<td>20</td>
<td>7.5–19.0</td>
<td>60, 80, 100, 120, 150</td>
</tr>
</tbody>
</table>
Case 1
Case 1

After 24 h
Case 2

Past medical history:
• 48 years old male patient
• Right iliofem and caval DVT 2015 \rightarrow open surgical thrombectomy
• Left iliofem and caval DVT 2017 \rightarrow PMT with Stenting of iliocaval tract
• Right iliofem DVT on CVO Feb.2018 \rightarrow UACDT without treatment of CVO

Present illness:
• Severe right leg PTS (Villalta), C4,5, venous cleudication
Hostile groin after open thrombectomy 2017

Preop. venous mapping
After PMT of the left iliofemoral tract. Visualization of the confluence for stenting showed already CVO of the right iliac tract.

DVT left sided 2017

20 mm Sinus XL

Contralateral jailing

18 mm Sinus Venous

PTA + Stentplacement
• Acute right iliofemoral DVT on CVO Feb. 2018

• The thrombus was removed after 48 h but the CVO remained untreated !!!
• PTS of the right leg due to iliofem CVO
PTA of the Sinus Venous Stent (6 mm Balloon)

PTA of the Sinus Venous Stent (16 mm Balloon)
• Deployment into the contralateral Stent without jailing
• Postdilatation with a 16 mm Balloon
• Lengthening the stent with a 14 x 100 mm Abre
• Completion angiogram
• Postop X-Ray
• Postop duplex
Conclusion

- **Strength**: ability to withstand recoil of fibrotic lesions and external compression
- **Flexibility**: ability to conform smoothly to highly tortuous vessels
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Thank you very much

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