Complex case review: Versatility of the GORE. VIABAHN. endoprosthesis in the treatment of challenging peripheral disease

Jorge Fernández Noya

Angiology and Vascular Surgery Department
University Clinical Hospital (CHUS)
Santiago de Compostela
Disclosure

Speaker name:
Jorge Fernández Noya

I have the following potential conflicts of interest to report:
- Consulting
- Employment in industry
- Stockholder of a healthcare company
- Owner of a healthcare company
- Other(s)

☐ I do not have any potential conflict of interest
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease

VERSATILITY

Features and Benefits

- Nitinol Stent
  - Conformable and durable
- ePTFE Lining
  - Covers diseased tissue
- Lower Profile
  - Streamlined delivery system facilitating treating challenging SFA lesions
- Heparin-bonded Surface
  - Intended to provide antithrombotic thromboresistance
- Contoured proximal edge
  - May improve hemodynamics as blood enters endoprosthesis
- Streamlined deployment
  - Good guidewire compatibility for streamlined delivery
  - HUB deployment direction
  - Radial endoprosthesis expansion
- The Longest Stent-graft with 25 cm length

CONFORMABLE
COVERED
HEPARIN BONDED
COUNTERED EDGE
25 CM

WIDE RANGE OF ANATOMICAL AREAS
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease

### OUR EXPERIENCE (CLI)

#### GLOBAL RESULTS

<table>
<thead>
<tr>
<th>Time (Days)</th>
<th>Primary Patency</th>
<th>Secondary Patency</th>
<th>Limb Salvage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 YEAR</td>
<td>77%</td>
<td>80.6%</td>
<td>82.6%</td>
</tr>
<tr>
<td>2 YEARS</td>
<td>71.9%</td>
<td>74.6%</td>
<td>78.8%</td>
</tr>
<tr>
<td>3 YEARS</td>
<td>66.7%</td>
<td>69.7%</td>
<td>76.4%</td>
</tr>
</tbody>
</table>

**GLOBAL RESULTS**

*Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease.*
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease

CLINICAL CASE 1

- Female
- 90 years old
- CAD
- Hypertension
- Diabetes
- Bilateral groin lymphadenectomy & QT-RT----¨Frozen groins¨ (N. Vulva)
- Rest pain in left limb
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease

CLINICAL CASE 1

VERSATILITY

CONFORMABLE
COVERED
COUNTERED EDGE
HEPARIN BONDED

25 CM
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease

CLINICAL CASE 1

VIABAHN 5*250MM /6*250MM
CLINICAL CASE 1

1 year later..... (Rest pain)

Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease.
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease

CLINICAL CASE 1
Complex case review:
Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease

CLINICAL CASE 1

LONG LESIONS

VIABAHN 5*250MM/5*150 MM /6*250MM
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease

OUR EXPERIENCE (PREVIOUS DATA)

**LENGTH**

<table>
<thead>
<tr>
<th>Time (Days)</th>
<th>&lt; 10 cm</th>
<th>10-20 cm</th>
<th>&gt;20 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 year</td>
<td>86.2%</td>
<td>89.4%</td>
<td>69.6%</td>
</tr>
<tr>
<td>2 years</td>
<td>76.6%</td>
<td>89.4%</td>
<td>58%</td>
</tr>
</tbody>
</table>

**LENGTH >20 Cm**

<table>
<thead>
<tr>
<th>Stent Type</th>
<th>Primary patency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 STENT</td>
<td>79%</td>
</tr>
<tr>
<td>2 STENT</td>
<td>64.7%</td>
</tr>
<tr>
<td>3 STENT</td>
<td>66.7%</td>
</tr>
</tbody>
</table>
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease

**OUR EXPERIENCE**

### LENGTH

### PRIMARY PATENCY

<table>
<thead>
<tr>
<th></th>
<th>&lt;10 cm</th>
<th>10-20 cm</th>
<th>&gt;20 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 year</td>
<td>86.2%</td>
<td>89.4%</td>
<td>69.6%</td>
</tr>
<tr>
<td>2 years</td>
<td>76.6%</td>
<td>89.4%</td>
<td>58%</td>
</tr>
<tr>
<td>3 years</td>
<td>74.7%</td>
<td>69.2%</td>
<td>61.8%</td>
</tr>
</tbody>
</table>

**<20 cm**

<table>
<thead>
<tr>
<th>PRIMARY PATENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 year</td>
</tr>
<tr>
<td>2 years</td>
</tr>
<tr>
<td>3 years</td>
</tr>
</tbody>
</table>

**>20 cm**

<table>
<thead>
<tr>
<th>PRIMARY PATENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 year</td>
</tr>
<tr>
<td>2 years</td>
</tr>
<tr>
<td>3 years</td>
</tr>
</tbody>
</table>
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease
CLINICAL CASE 2

Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease.
### OUR EXPERIENCE

#### LESIONS CHARACTERISTICS

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occlusions</td>
<td>76.4%</td>
</tr>
<tr>
<td>Stenosis</td>
<td>23.6%</td>
</tr>
<tr>
<td>Calcification</td>
<td></td>
</tr>
<tr>
<td>- Mild</td>
<td>35.6%</td>
</tr>
<tr>
<td>- Moderate</td>
<td>51.7%</td>
</tr>
<tr>
<td>- Severe</td>
<td>12.7%</td>
</tr>
<tr>
<td>Length</td>
<td></td>
</tr>
<tr>
<td>- 0-20 cm</td>
<td>43.2%</td>
</tr>
<tr>
<td>- &gt;20 cm</td>
<td>56.8%</td>
</tr>
<tr>
<td>Run – off</td>
<td></td>
</tr>
<tr>
<td>- 0-1</td>
<td>44.9%</td>
</tr>
<tr>
<td>- 2-3</td>
<td>53.1%</td>
</tr>
</tbody>
</table>

Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease
CLINICAL CASE 3

- Male, 77 yo
- Hypertension
- Diabetes
- Atrial fibrillation

-01/04/2011: Rest Pain ------- SFA Nitinol Stents (2)

AUGUST 2012

Rest Pain + Ulcer in the right big toe

RUTHERFORD 5
Complex case review: Versatility of the GORE VIABAHN endoprostheses in the treatment of challenging peripheral disease
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease

**CLINICAL CASE 3**

Viabahn 5*150/5*150

Failed Peroneal PTA
- Rest pain in the right limb
- Popliteal peroneal Bypass + Peroneal PTA

February 2014

Rest Pain + extensive tissue loss in the right limb

Duplex-Scan: Patent Viabahn and By-pass
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease

CLINICAL CASE 3

48 months FU DUPLEX

DEB 3*40mm
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease

**RELINE** (Randomized comparison of endoluminal grafting with new generation Viabahn vs POBA for femoral artery in-stent restenosis)

Randomized, multicentric
83 pat. Rutherford 3-5

---

**Primary Patency**

<table>
<thead>
<tr>
<th></th>
<th>1 year PP</th>
<th>2 years PP</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIABAHN</td>
<td>74.8%</td>
<td>58.4%</td>
</tr>
<tr>
<td>POBA</td>
<td>28%</td>
<td>11.6%</td>
</tr>
</tbody>
</table>

P<0.001

---

RELINE-trial: 24 months results with the Viabahn vs PTA for in-stent restenosis, Deloose. LINC2015
Viabahn features confer VERSATILITY

ENDOLUMINAL BYPASS offers good results

250 mm graft is key for AVOID OVERLAPPING

HIGH PRESSURE BALLOONS inside the Viabahn

Mechanical barrier (Viabahn) is a good option for treatment of ISR

Surveillance is critical
Complex case review: Versatility of the GORE VIABAHN endoprosthesis in the treatment of challenging peripheral disease

THANK YOU!!!

SAVE THE DATE: SITE 2019

MARCH 27th - 29th, 2019
SCHOOL OF MEDICINE, UNIVERSITY OF BARCELONA
Complex case review: Versatility of the GORE. VIABAHN. endoprosthesis in the treatment of challenging peripheral disease