Implementing RAPID Core Data Elements: VQI PVI Registry Review

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Vascular Quality Initiative®

Participating Center Growth

VQI Participating Centers

392 Centers, 46 States + Ontario
17 Regional Quality Groups

- Pacific NW Vascular Study Group
- Mid-America Vascular Study Group
- Midwest Vascular Collaborative
- Great Lakes Vascular Study Group
- Vascular Study Group of New England
- Vascular Study Group of Greater New York
- Mid-Atlantic Vascular Study Group
- Virginiast Vascular Study Group
- Carolinas Vascular Quality Group
- MidSouth Vascular Study Group
- Southern Vascular Outcomes Network
- Southeastern Vascular Study Group
- Southern California Vascular Outcomes Improvement Collaborative
- Northern California Vascular Study Group
- Rocky Mountain Vascular Quality Initiative
- Upper MidWest Vascular Network
- Michigan Vascular Study Group
- AK
- HI
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VQI Registries:

- Carotid Artery Stent
- Carotid Endarterectomy
- Endovascular AAA Repair
- Hemodialysis Access
- Infra-Inguinal Bypass
- IVC Filter
- Lower Extremity Amputations
- Open AAA Repair

**Peripheral Vascular Intervention: 100,700 procedures**

- Supra-Inguinal Bypass
- Thoracic and Complex EVAR
- Varicose Vein
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PVI Participation: 2237 physicians

- Vascular Surgery: 38%
- Radiology: 26%
- Cardiology: 26%
- General Surgery: 10%
Plain Balloon, Special Balloon, Stent, Stent Graft, Atherectomy, Bailout Stent, Bailout Stent Graft

Manufacturer

By device name

Diameter and length

(free text or pulled from GUDID website)
GUDID Integration in VQI

Three ways to enter stents/stent grafts:

1. Product number
2. Manufacturer
3. Device Identifier (GUDID)
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**Procedure Variables**

#### Procedure Information

<table>
<thead>
<tr>
<th>Access</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number Access Sites</td>
<td>2</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Site 1</th>
<th>Site 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site</td>
<td>Femoral Retrograde</td>
</tr>
<tr>
<td>Side</td>
<td>Right</td>
</tr>
<tr>
<td>Access Guidance</td>
<td>U/S</td>
</tr>
<tr>
<td>Largest Sheath Size</td>
<td>6</td>
</tr>
<tr>
<td>Closure Device Type</td>
<td>None</td>
</tr>
<tr>
<td>Hemostatic Skin Patch</td>
<td>InstIlluSeal</td>
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<tr>
<td>Closure Device Successful</td>
<td>Yes</td>
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</table>

<table>
<thead>
<tr>
<th>Procedure</th>
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</thead>
<tbody>
<tr>
<td>Fluoro Time</td>
<td>30 minutes</td>
<td></td>
</tr>
<tr>
<td>Anticoagulant</td>
<td>Heparin</td>
<td>Protamine</td>
</tr>
<tr>
<td>Treatment Details</td>
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<tr>
<td>Number of Arteries Treated</td>
<td>1</td>
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</table>

<table>
<thead>
<tr>
<th>Artery 1</th>
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<tbody>
<tr>
<td>Indication</td>
<td>Occlusive Disease</td>
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</tr>
<tr>
<td>Artery Treated</td>
<td>SFA</td>
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</tr>
<tr>
<td>Side</td>
<td>Left</td>
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<tr>
<td>Site of Prior Treatment</td>
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<tr>
<td>TASC Grade</td>
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<tr>
<td>Total Treated Length</td>
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</tr>
<tr>
<td>Total Occlusion Length</td>
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<tr>
<td>Calcification</td>
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### Vascular Quality Initiative®

**Product Number**

<table>
<thead>
<tr>
<th>Artery 1</th>
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<tbody>
<tr>
<td><strong>Number Treatment Types</strong></td>
</tr>
<tr>
<td><strong>Device 1</strong></td>
</tr>
<tr>
<td><strong>Treatment Type</strong></td>
</tr>
<tr>
<td><strong>Device 2</strong></td>
</tr>
<tr>
<td><strong>Treatment Type</strong></td>
</tr>
<tr>
<td><strong>Product Number or UDI</strong></td>
</tr>
<tr>
<td>Manufacturer</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Diameter</td>
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<tr>
<td>Length</td>
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<tr>
<td>Concomitant</td>
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</tbody>
</table>

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*SVS | Society for Vascular Surgery*  
*m2s*  
*Society for Vascular Medicine*
Artery 1

Number Treatment Types 1

Device 1

Treatment Type Stent Graft

Product Number or UDI VBC050202 UDI:00733132614387

Manufacturer W. L. Gore & Associates, Inc.

Type GORE VIABAHN Endoprosthesis

Diameter 5 Millimeter

Length 2.5 Centimeter
Device Type

Artery 1

Number Treatment Types: 1

Device 1

Treatment Type: Stent

Product Number or UDI: 

Manufacturer: Covidien LP

Type: Protege EverFlex

Diameter: Select

Length: Select
Diameter

Artery 1

Number Treatment Types: 1

Device 1

Treatment Type: Stent

Product Number or UDI:

Manufacturer: Covidien LP

Type: Protege EverFlex

Diameter: 5 Millimeter

Length: Select
### Vascular Quality Initiative®

**Length**

<table>
<thead>
<tr>
<th>Artery 1</th>
</tr>
</thead>
</table>
| Number Treatment Types | 1  
| Device 1 |  
| Treatment Type | Stent  
| Product Number or UDI |  
| Manufacturer | Covidien LP  
| Type | Protege EverFlex  
| Diameter | 5 Millimeter  
| Length | 100 Millimeter  

#### Multiple Device Matches

There are multiple devices which match your selection. Please choose the specific device which was used for this treatment by clicking on the radio button.

- **UDI: 008216348534136**
  - **Description:** Self-Expanding Biliary Stent System  
  - **Model or Version:** PRB35-05-100-080  
  - **Catalog Number:** PRB35-05-100-080  
  - **Brand:** Protege EverFlex  
  - **Device Sizes:**
    - {"sizeType": "Outer Diameter", "size": {"unit": "Millimeter", "value": "5"}, "sizeText": null}  
    - {"sizeType": "Length", "size": {"unit": "Millimeter", "value": "100"}, "sizeText": null}

- **UDI: 008216348534136**
  - **Description:** Self-Expanding Biliary Stent System  
  - **Model or Version:** PRB35-05-100-120  
  - **Catalog Number:** PRB35-05-100-120  
  - **Brand:** Protege EverFlex  
  - **Device Sizes:**
    - {"sizeType": "Length", "size": {"unit": "Millimeter", "value": "100"}, "sizeText": null}  
    - {"sizeType": "Outer Diameter", "size": {"unit": "Millimeter", "value": "5"}, "sizeText": null}
Auto Populates Product # and DI:
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DI (GUDID)
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Artery 1

Number Treatment Types: 1

Device 1

Treatment Type: Stent

Product Number or UDI: EV06182CD UDI:00801741000669

Manufacturer

Type: Balloon Expandable Biliary Stent

Diameter: Not specified

Length: Not specified
GUDID Website: Text Entry Instead of Data Field Entry

Need help from manufacturers to enter all data fields, not text
Implications

• Data linkages to device specific identifiers is plausible.

• Questions which remain relate to scalability and implementation
Conclusion

• VQI has a single technology vendor M2S
• Has allowed RAPID inclusion of all core data elements
• Has allowed linkage to import all device identifiers with GUDID
• Good start for RAPID Phase II
• Time will tell how well implementation works