National Varicose Vein Registry meeting

First meeting at the VAM
Boston, 6/21/18
• VQI launched by SVS in 2011
• By Feb 2018, 479 centers in 46 states and Canada and >450,000 procedures entered and >150 publications
• 2013: collaboration of AVF and SVS by a merger of the American Venous Registry with VQI

• Created new registries for
  • Feb 2013- IVC filters
  • Jan 2015- Varicose Vein treatment
  • Coming soon – venous stenting (Jan 2019)
Varicose Vein Growth:

• Significant participation in first 3 years
  • – 130 Physicians entering consecutive VV cases
  • – 41 sites
  • – >20,000 procedures
Varicose Vein Procedure Volume by Year

- Total Procedures entered: 20,536
- Entered by 36 sites in 20 states
### Procedures performed between June 1, 2017 and May 31, 2018

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Your Region (N)</th>
<th>VQI Overall (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVACCESS</td>
<td>778</td>
<td>7055</td>
</tr>
<tr>
<td>IVCF</td>
<td>143</td>
<td>1883</td>
</tr>
<tr>
<td>Varicose Veins</td>
<td>759</td>
<td>8178</td>
</tr>
</tbody>
</table>
Total Procedure Volume, All Years
Includes all procedures entered in VQI as of July 16, 2018

<table>
<thead>
<tr>
<th>Procedure Type</th>
<th>Your Region (N)</th>
<th>VQI Overall (N)</th>
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</thead>
<tbody>
<tr>
<td>AVACCESS</td>
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<td>38995</td>
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<tr>
<td>IVCF</td>
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<tr>
<td>Varicose Veins</td>
<td>2451</td>
<td>21136</td>
</tr>
</tbody>
</table>
Research drives quality improvement

AP/Statin Rate 2011-July 2016

- Line of best fit
- Inflection point

Rate of increase before Jan 2015: 0.3%/year (p=0.19)
Rate of increase after Jan 2015: 4.3%/year (p<0.0001)

National QI Project Initiated

77% 87%
Research drives quality improvement

- Improvement in documented duplex US prior to vein procedure
- Improvement in documented CEAP and VCSS pre and post procedure
- Discussed wanting to start a QI project to reduce variation in care
  - C2 data a good place to start
• “We recommend against selective treatment of perforating vein incompetence in patients with simple varicose veins (CEAP class C2) GRADE 1B”

• – 874 total perforator treatments reported
  • 332 (38%) for C2 disease

• – 332 veins were treated as part of 279 total procedures

• – 279 procedures, 124 (44%) were performed at one center

• – 2 other centers have 30 such procedures each

• – The remaining 95 such procedures are scattered across 20 other centers
Approved research:

– Effects of age, gender, race and other patient factors on outcome of GSV ablation
– Incidence and impact of EHIT after GSV ablation
– Clinical and patient reported outcomes after different types of GSV ablation
– Impact of truncal vein diameter on ablation outcomes
– Factors associated with need for repeat treatment after GSV ablation