What's Up With The SAIL VALVE?

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What's NOT Up With The SAIL VALVE?

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Disclosures

• Philips BTG Advisory Board
• Merit nMedical Consultant
• Boston Scientific Consultant
• Hancock Jafee Laboratories Consultant
• Angiodynamics Inc. Consultant
• Cook Medical Consultant

Reflux - Valve Options 2019

<table>
<thead>
<tr>
<th>INDICATION: INSUFFICIENCY</th>
<th>VALVE TYPE</th>
<th>INSERTION</th>
</tr>
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<tbody>
<tr>
<td>VASOPLASTY</td>
<td>PRIMARY</td>
<td>BICUSP</td>
</tr>
<tr>
<td>VALVE TRANSPLANT</td>
<td>PRIMARY</td>
<td>BICUSP</td>
</tr>
<tr>
<td>NEOVAVE</td>
<td>SECONDARY</td>
<td>MONOCUSP (BICUSP)</td>
</tr>
<tr>
<td>SAIL VALVE</td>
<td>SECONDARY</td>
<td>MONOCUSP (DIFFERENT)</td>
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<tr>
<td>BLUELEAF/INTERVENE</td>
<td>SECONDARY</td>
<td>MONOCUSP</td>
</tr>
<tr>
<td>VENOVAIVE</td>
<td>SECONDARY</td>
<td>MONOCUSP</td>
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</tbody>
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Sail Valve

• Percutaneous
• Monocusp – sort of
• PTFE
• Physiologic leak

DESCENDING VENOGRAM

PICTURES COURTESY JORGE ULLOA MD
Percutaneous venous valve designs for venous insufficiency. 

“...Hence, the newly proposed valve design consisted of 2 stent rings without barbs to fix the valve in the host vein. Because a little reflux might actually benefit the patency of the valve, the valve cusp in the new design forms a billowing “sail” that does not completely open or close, which also prevents the valve cusp from sticking to the wall. This technology remains of great interest to the interventionalist and all physicians who are involved in the care for patients with advanced chronic venous disease. Valve design remains a challenge, but promising new valve substitutes such as the one outlined here are under evaluation.”

Sail Valve Study

- Iliac veins – 10 pigs
- Femoral vein access – 6 Fr.
- Deployment 100% - expands to 10mm


Sail Valve – Results 4 weeks

- Ascending venogram – all patent
- Descending venogram 8 valves - 5 competent - 1 partial - 2 incompetent malposition/tilt
- Histology – no macroscopic thrombus on valve

And that’s where we are

- Patent, IP issues
- Funding
- Who is sailing the boat?

What's Up With The Sail Valve? or What's NOT Up With The SAIL VALVE?

Will it be the vein world’s version of A Moveable Feast?

Published posthumously 1964