Internal Compression Therapy - A Novel Method In The Treatment Of Deep Venous Insufficiency - 1.5 Years Clinical Results

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Disclosures
- Not FDA Approved

Treatment modalities are limited in the treatment of deep venous insufficiency and the success rate is low.
- internal valvuloplasty
- external valvuloplasty
- external band
- femoral transposition
- vein transplantation
- neovalve reconstruction

Materials and Methods
- 30 patients with venous insufficiency October 2017 - February 2018 and diagnosed as isolated deep venous insufficiency were included in the study.
- Preop Common Femoral vein diameters, reflux duration, VCSS values and procedure duration was recorded post operatively.
- Follow-up visit: 1, 6 and 18 months

Demographics/Procedure Duration
- Age (year) : 40.9 ± 7.6 (29-56)
- Sex (M/F) : M 40% (12); F 60% (18)
- Duration (min) : 22.7±2.9 (20-30)
## Results

<table>
<thead>
<tr>
<th></th>
<th>Preop</th>
<th>Post Op</th>
<th>1 month</th>
<th>6 months</th>
<th>18 months</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vein Diameter (mm)</td>
<td>12.7 ± 0.9</td>
<td>9.9 ± 0.7</td>
<td>10.0 ± 0.7</td>
<td>9.9 ± 0.7</td>
<td>9.9 ± 0.7</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Reflux Duration (sec)</td>
<td>3 (2-6)</td>
<td>0 (0-0)</td>
<td>0 (0-1)</td>
<td>0 (0-1)</td>
<td>0 (0-1)</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>VCSS</td>
<td>11 (10-13)</td>
<td>8 (6-10)</td>
<td>7 (4-9)</td>
<td>6 (4-9)</td>
<td></td>
<td>&lt;0.01</td>
</tr>
</tbody>
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## Conclusion

- Feasibility study presents 18-month results of ICT application in patients with deep venous insufficiency revealed high clinical success and patient satisfaction.

Additional trials will be needed with longer follow up.