Freedom Total Knee System Study

Study Highlights

- Principal Investigator: Dr. Avatar Singh
- It was a retrospective, post marketing study in which Freedom Total Knee System surgeries performed between April 2011 to October 2012
- Three years clinical follow-up
- Freedom TKS demonstrated good results in regard to the range of motion, reduced postoperative stiffness and pain, and improved functionality

Study Design

A retrospective, post-marketing study

Clinical outcomes at 3 years FU:
- 0% Revision TKR
- 0.16 WOMAC Stiffness Score
- 0.51 WOMAC Pain Score
- 95.24 Functional AKSS Score
- 93.0 ± 4.10 Clinical AKSS Score
- 119.8° Range of Motion
158 patients were enrolled from April 2011 to October 2012 in a single centre in India.

Clinical follow-up at 1-year and 3-year

Clinical outcomes for performance and survivorship were analyzed.

Clinical Results

Comparison of American Knee Society Score

![American Knee Society Score](image)

Comparison of WOMAC pain score

![WOMAC pain score](image)

Pre-operative (N=191) | Post-operative (n=191) | 1-year follow up (n=129) | 3-year follow up (n=41)
---|---|---|---
Score Mean | 3.2 | 3.8 | 1.02 | 0.51
Endpoints

<table>
<thead>
<tr>
<th>Primary Performance endpoint</th>
<th>Primary Efficacy endpoint</th>
<th>Secondary Efficacy endpoint</th>
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<tbody>
<tr>
<td>Absence of revision TKR at 3-years FU</td>
<td>Range of Motion at 3-years FU</td>
<td>AKSS Clinical Score at 3-year FU</td>
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<tr>
<td>0 %</td>
<td>119.8° ± 11.05°</td>
<td>93.0 ± 4.10</td>
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<td>95.24 ± 23.39</td>
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<td>WOMAC Pain Score at 3-years FU</td>
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<td>0.51 ± 0.71</td>
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<td>WOMAC Stiffness Score at 3- FU.</td>
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<td>0.16 ± 0.48</td>
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Reference

1. Clinical Trial Registry- India (CTRI)- [http://ctri.nic.in/Clinicaltrials/pmaindet2.php?trialid=13449&EncHid=&userName=Freedom](http://ctri.nic.in/Clinicaltrials/pmaindet2.php?trialid=13449&EncHid=&userName=Freedom)