The purpose of this study was to evaluate a new low profile fixed bearing total ankle arthroplasty system. Specifically, we worked to identify the bone resection required to implant the tibial and talar components.

End-stage ankle arthritis is a debilitating condition. Post-traumatic arthritis constitute 70% of all end-stage arthritis, and inflammatory arthritis is the second leading cause with a reported incidence of 10% (10).

Statistics

- Outcomes were compared across time using a paired samples t-test
- Statistical significance was set at the 5% level (p < 0.05)
- Data presented as mean ± standard deviation or count (%)

Table 1: Outcomes

<table>
<thead>
<tr>
<th>Component</th>
<th>Cadence</th>
<th>Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tibia Resection (mm)</td>
<td>5.17</td>
<td>5.46</td>
</tr>
<tr>
<td>Talus Resection (mm)</td>
<td>3.38</td>
<td>4.55</td>
</tr>
</tbody>
</table>

Figure 2: Outcomes

- Cadence
- Control

REFERENCES

- Amendola A, Anderson RB, Berlet GC, et al. Prospective controlled trial of STAR total ankle replacement versus ankle fusion: initial r...
- Hosptial
- Scott Carrington, DPM, AACFAS, Nicole M. Protzman, MS, Stephen A Brigido, DPM, FACFAS

An Examination of a New Total Ankle System

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