Supramalleolar Osteotomy Combined with Intra-articular Osteotomy for the Reconstruction of Malunited Varus Impacted Ankle Fracture

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Disclosure

NO CONFLICT TO DISCLOSE

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Our disclosures are in the Final AOFAS Mobile APP

We have no potential conflicts with this presentation
Materials and Methods

• From January 2011 and December 2014, 20 patients were enrolled.
• Exclusion criteria: end-stage osteoarthritis, neuropathic arthropathy, inflammatory arthritis, or congenital abnormality, or paralysis.
• Five men and nine women of a mean age of 39 (range, 22 to 60) years.
• Follow-up for a mean of 43.6 (range, 19 to 67) months.
Surgical technique
## Results

### Additional Operation procedure

<table>
<thead>
<tr>
<th>Operation procedure</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deltoid ligament repair</td>
<td>2</td>
</tr>
<tr>
<td>Lateral Ligament Reconstruction</td>
<td>5</td>
</tr>
<tr>
<td>Fibular osteotomy</td>
<td>3</td>
</tr>
<tr>
<td>Achilles tendon lengthening</td>
<td>2</td>
</tr>
<tr>
<td>Factors</td>
<td>Preoperative (N = 14)*</td>
</tr>
<tr>
<td>------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>TAS (deg)</td>
<td>87.1 ±3.12</td>
</tr>
<tr>
<td>TLS (deg)</td>
<td>81.0 ±2.08</td>
</tr>
<tr>
<td>TTA (deg)</td>
<td>2.45±2.10</td>
</tr>
<tr>
<td>VAS scores</td>
<td>6.71±0.82</td>
</tr>
<tr>
<td>O-M scores</td>
<td>56.4 ± 6.91</td>
</tr>
<tr>
<td>Takakura grade</td>
<td>2.36 ± 0.84</td>
</tr>
</tbody>
</table>
Results

• One patient who underwent ankle arthrodesis at 12 months following the procedure
• One patient underwent ankle joint distraction at 15 months
• One patient had superficial wound complications
Case 14  F/36
Case 14  F/36
Case 14  F/36
Follow-up  40 months
Conclusions

The use of supramalleolar osteotomy combined with intra-articular osteotomy was an effective option for the treatment of malunited varus impacted intraarticular ankle fracture.


