Results of Single Incision Hallux Valgus Surgery

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Disclaimer

The authors have no conflict of interest to disclose
Are Two Incisions Necessary for Hallux Valgus Surgery?

- First web space dorsal incision can lead to patient dissatisfaction following scarring.

- We performed a review of Hallux Valgus correction with Scarf +/- Akin osteotomy using single medial incision with lateral release through an extra-articular approach.

- Single Incision surgery for correction of Hallus Valgus has not been described before for Scarf +/- Akin Osteotomy.
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Surgical Technique

- Single Medial incision
- Lateral release through dorsal dissection and retraction of EHL tendon.
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Methods

• Single Surgeon Series prospectively collected data

• 202 consecutive feet

• Preoperative and final post-operative weight bearing radiographs
  – Radiographic measures
  – Mean duration of radiographic follow up 5 months (2-16)

• Validated patient satisfaction survey at the time of study

• Mean follow up duration 45 months (12 – 72)
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Results

<table>
<thead>
<tr>
<th></th>
<th>Pre-operative</th>
<th>Postoperative</th>
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</thead>
<tbody>
<tr>
<td>Hallux Valgus Angle</td>
<td>33.2</td>
<td>15.6</td>
</tr>
<tr>
<td>Intermetatarsal Angle</td>
<td>14.4</td>
<td>7.8</td>
</tr>
<tr>
<td>Distal Metatarsal Articular Angle</td>
<td>17.6</td>
<td>9.8</td>
</tr>
<tr>
<td>Medial Sesamoid Position</td>
<td>3</td>
<td>1</td>
</tr>
</tbody>
</table>

All radiological improvements statistically significant (p<0.05)
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Results

• Patient Satisfaction Survey Response Rate – 78%
  – Very Satisfied 69%
  – Satisfied 14%
  – Satisfied with reservation 11%
  – Dissatisfied 06%

• No correlation of radiographic measure with satisfaction grade

• Two patients with intra-opartive fracture with no further sequelae

• None required revision surgery
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Conclusion

• Single incision surgery with Scarf +/- Akin Osteotomy for Hallux Valgus Correction is a simple, safe and effective technique with very high satisfaction.

• The results are comparable to, if not better than, traditional two-incision surgery.