Intermediate Follow-up of Hallux Valgus Treatment with Scarf Ostetomy

Foot & Ankle Category: Midfoot / Forefoot

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Introduction
The purpose of this investigation was to evaluate the clinical and radiological results of hallux valgus treatment with a scarf osteotomy.

Methods
From January 2000 to January 2006, 70 cases (66 patients) with hallux valgus were treated with scarf osteotomy. Sixty six patients (70 feet) were followed up for more than five years (mean 97.1 ; range,72-144 month) after surgery. Clinically, American Orthopaedic Foot And Ankle Society (AOFAS) score, SF-36 were evaluated and radiologically, hallux valgus angles (HVA), intermetatarsal angles (IMA), interphalangeal angle, tibial sesamoid position (TSP) were measured and evaluated.

Results
Mean age at the time of surgery was 56 (range 38-81), and included 6 male and 64 female. The preoperative mean AOFAS was 55.6 (14 ~88) (median± SD) (57 ±15). The postoperative mean AOFAS score was 89 (60~100) points. Median ±SD (90 ±7). (P <0.001) The preoperative HVA decreased from 31° (12-60) to postoperative 11 ° (2-25) and the mean IMA from 14° (4-20) to 6 ° (0-13). The Tibial sesamoid position was corrected from 3 to 0 (p<0.001). ( ) % were completely satisfied with their postoperative results. There was no nonunion or delayed union, no avascular necrosis, Reoperation was 5 cases( 5/70) 7%. 4 cases had symptomatic hardware required screw removal and 1 cases had infection (1%). There was one hallux varus 1 cases. (1%).

Conclusion
Scarf osteotomy is a reliable technique for treating hallux valgus with minimal complications and low incidence of recurrence.