

## Operative management of hallux valgus based on percutaneous technique

Luiz Carlos Ribeiro Lara<sup>1</sup>, Celso Ferreira<sup>2</sup>, Fagner do Prado<sup>1</sup>, Felipe A S Pires<sup>1</sup>, Pedro Luiz Scardovelli<sup>1</sup>

### Descriptors

Hallux valgus / radiography; Osteotomy / radiography; Orthopedic procedures / methods

### Keywords

Hallux valgus / radiography; Osteotomy / radiography; Orthopedic procedures / methods

Academic Course of Orthopedics and Traumatology, Department of Medicine, Universidade de Taubate, Taubate, SP, Brazil; Foot and Ankle Surgery Group, Hospital Universitario de Taubate, Taubate, SP, Brazil.  
Foot Surgery Service, ORTONIBRA - Japanese Brazilian Orthopedics and Traumatology, Sao Paulo, SP, Brazil.

### Corresponding Author

Luiz Carlos Ribeiro Lima, Av Italia 1551, R1 - Rua 1, no. 666 - Jardim das Nacoes - CEP: 12030212, Taubate, SP, Brazil  
E-mail: luizrlara@hotmail.com

### Interest conflicts

None

### Received on

10/31/13

### Accepted on

04/20/2014

### SUMMARY

**Objective:** To clinically and radiographically analyze the results of hallux valgus surgery correction using the percutaneous Reverdin-Isham technique.

**Methods:** We retrospectively evaluated 59 feet in 47 patients with mild or moderate hallux valgus, during the period between June 2009 and July 2011. The mean age of the patients was 56.3 years and the follow-up time was post-average surgery was 23.4 months. All patients who underwent the Reverdin technique modified by Isham were assessed pre- and postoperatively using the American Association Orthopedic Foot and Ankle Society (AOFAS) score, radiographically measuring the hallux valgus angle, the intermetatarsal angle and the distal articular angle of the first metatarsal. **Results:** as preoperative average of the AOFAS questionnaire 47.8 points, of the AHV [Illegible] and AADM 11.6, while in the postoperative period the AOFAS was 88.7 points, [Illegible] the AADM 6.1. **Conclusion:** The presented surgical technique proved to be [illegible] for hallux valgus, demonstrating good angular correction and expressive increase [...]

### ABSTRACT

**Objective:** To observe clinically and through radiographic study the results of hallux valgus operative management, using Reverdin-Isham percutaneous technique. **Methods:** We evaluated retrospectively 59 feet in 47 patients with mild to moderate hallux valgus, between June 2009 and July 2011. The mean age was 56.3 years and the mean post-operative follow up was 23,4 months. All patients submitted to Reverdin modified by Isham technique were evaluated before and after surgery using the American Association Orthopedic Foot and Ankle Society score (AOFAS), based on radiographic studies we measured the hallux valgus angle, intermetatarsal angle and the distal metatarsal articular angle. **Results:** Pre-operatively, the mean AOFAS score was 47.8 points, HVA was 25.8%, IMA was 13.9 and DMAA was 11.6, meanwhile post-operatively the AOFAS score was 88.7, HVA 13.1 IMA was 11.2 and DMAA was 6.1". **Conclusion:** The present surgical technique was able to correct hallux valgus deformity, showing good angular correction and significant increase of AOFAS score.

### INTRODUCTION

Hallux valgus is the main pathology of the forefoot, where the big toe deviates laterally in valgus, accompanied by a medial deviation of the head of the first metatarsal bone, producing a medial bone protrusion in the region of the first metatarsophalangeal joint.

Conservative treatment can relieve pain, but it is ineffective in correcting deformity. Surgery is indicated for symptomatic cases, generally associated with difficulty in wearing certain types of footwear. The goal is to correct [...]