

# Sports Nutrition and Ortho Congress

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### **Radiographic evaluation of patients undergoing treatment of idiopathic clubfoot by the ponseti method**

**Objective:** To evaluate the radiograph as a method of measuring effectiveness of Ponseti technique for the treatment of unilateral congenital clubfeet using plain radiography.

**Methods:** We conducted a descriptive, retrospective study from medical record data on patients with congenital idiopathic unilateral clubfoot, with ages ranging from 48 to 177 months. Patients underwent radiographs in anteroposterior and profile, load and angles were traced to measure the relationship between the tarsal bones of the middle and hind foot of the treaty and normal.

**Results:** The final average Pirani score was 0.35. Statistical analysis showed that the calcaneus-fifth metatarsal angle on the anteroposterior view, tibial-calcaneus profile and the horizontal-calcaneus profile also showed when subjected to the comparison test similarity, with p values  $>0.05$ . Other angles did not show statistical similarity when compared with the foot control ( $p < 0.01$ ). All angles were within the normal range when compared to literature data. There was no significant correlation between radiographic results and parameter based on Pirani score.

**Conclusion:** Radiography is not an appropriate method to evaluate the effectiveness of the results of the Ponseti method in cases of unilateral idiopathic congenital clubfeet and may be indicated for after infancy or in treatments of neglected cases. There was no significant correlation between radiographic findings and clinical parameters used to assess correction.

### **Biography**

Antonio Luiz Goncalves Brandao was graduated in Medicine from Bahia Foundation for Science Development-FBDC (1996), did Medical Residency in Orthopedics and Traumatology at COT-Martagao (1997-1999) and Pediatric Orthopedics and Foot Surgery in HCRP-USP (2000-2001). He is currently an Orthopedist at the Orthopedics and Traumatology Clinic (COT), Brazil. He has completed his Master's degree in Health Technology from Escola Bahiana de Medicina (EBM).

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