Abstract Number: 10956

JOURNAL OF THE Foot & Ankle

Weight-bearing computed tomography in the identification of intercuneiform instability in Lisfranc lesion: a case report

Rodrigo Sousa Macedo[1], Fabio Correa Paiva Fonseca[1], Vinicius Thiago Conde Bertelli[1], Rafael Barban Sposeto[1], Túlio Diniz Fernandes[1], Alexandre Leme Godoy-Santos[1]

1. Instituto de Ortopedia e Traumatologia do Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo - IOT/HCFMUSP, São Paulo, SP, Brazil

Correspondence: Vinicius Thiago Conde Bertelli. **Email:** drviniciusbertelli@gmail.com

Lisfranc lesions have a high rate of diagnostic failure (> 30%), especially in isolated ligament injuries. Diagnostic delay is associated with chronic pain and instability of the middle foot. Weight-bearing computed tomography (WBCT) emerges as a promising tool. The objective of this report is to present a case in which this modality of examination identified intercuneiform instability not detected by conventional methods. Evaluation of a female patient, a marathon runner, with a Lisfranc injury after falling down stairs. Performed: weight-bearing radiography, comparative bilateral conventional tomography and weight-bearing computed tomography. Surgical exploration with evaluation under intraoperative radioscopy. Conventional examinations identified C1-M1, C1-M2, C2-M2 instability and plantar avulsion at the base of the second metatarsal. Weight-bearing computed tomography additionally showed intercuneiform asymmetry (C1-C2, which was not detected in the stress test under intraoperative radioscopy. Surgical exploration confirmed this instability, modifying the planning. Fixation performed with cannulated screws 3.5 mm and a dorsal plate. Weight-bearing tomography represents an advance in the diagnosis of Lisfranc lesions, especially hidden instabilities. When unavailable, systematic intraoperative exploration is indispensable for complete diagnosis and appropriate treatment.

Keywords: Foot injuries; Metatarsal bones; Tomography, X-Ray Computed; Weight-bearing.

DOI: https://doi.org/10.30795/jfootankle.2026.v20.2094

This abstract was presented at the XXII Brazilian F&A Meeting 2026, held in São Paulo, Brazil, from April 18 to 21, 2026.