



# Weight Bearing CT Imaging for Podiatry

Low Dose | Comfortable Standing Position | Quick Scan Times

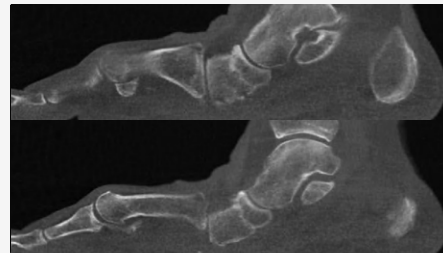
## Common Indications

### Hallux Valgus



- Assess rotation (pronation) of the 1st metatarsal.
- Assess the position of the sesamoids and degenerative changes at the metatarsosesamoid joints.
- Assess congruency and degenerative changes at the 1st MTP joint.

### Midfoot Arthritis



- Provide a clearer assessment of degenerative changes and joint space narrowing within the midfoot joints, which is normally impaired due to the natural overlap of adjacent midfoot bones viewed two-dimensionally with conventional radiography.<sup>1</sup>

### Lisfranc Injuries



- Better characterize bony injuries<sup>2</sup>.
- Evaluate the 3D Lisfranc joint complex under physiologic load.
- Identify subtle Lisfranc injuries by effectively differentiating between stable and unstable Lisfranc injuries<sup>3</sup>.

## Fractures

35% improved fracture detection and 2-fold improved identification of complex fracture over X-Ray.<sup>4</sup>

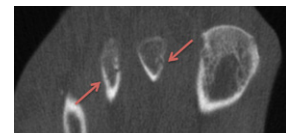


“ A plain X-Ray in many cases will not show small fractures in their early stages of presentation. For this reason, they are often misdiagnosed and mistreated. A low dose Cone Beam CT scan of the foot is very valuable in these situations.

David J. Soomekh, DPM  
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X-Ray



Cone Beam CT

(1) Sripanich Y, Steadman J, Krähenbühl N, Rungprai C, Mills MK, Saltzman CL, Barg A. Asymmetric lambda sign of the second tarsometatarsal joint on axial weight-bearing cone-beam CT scans of the foot: preliminary investigation for diagnosis of subtle ligamentous Lisfranc injuries in a cadaveric model. *Skeletal Radiol.* 2020 Oct;49(10):1615-1621. doi: 10.1007/s00256-020-03445-5. Epub 2020 May 11. PMID: 32394072.  
 (2) Sripanich Y, Weinberg M, Krähenbühl N, Rungprai C, Saltzman CL, Barg A. Change in the First Cuneiform-Second Metatarsal Distance After Simulated Ligamentous Lisfranc Injury Evaluated by Weightbearing CT Scans. *Foot Ankle Int.* 2020 Nov;41(11):1432-1441. doi: 10.1177/1071100720938331. Epub 2020 Aug 20. PMID: 32819160.  
 (3) Lange, B., & Voldby, H. (2022, February 24). Webinar recap: WBCT scans of potentially unstable. CurveBeam AI. Retrieved March 30, 2023, from <https://curvebeamai.com/webinars/webinar-recapwbct-scans-of-potentially-unstable-weberbser2-fractures/>  
 (4) Diagnostic Value of Cone Beam Computed Tomography (CBCT) in Occult Scaphoid and Wrist Fractures Christophe Borel et al, <https://pubmed.ncbi.nlm.nih.gov/29153368/>.