CurveBeam AI

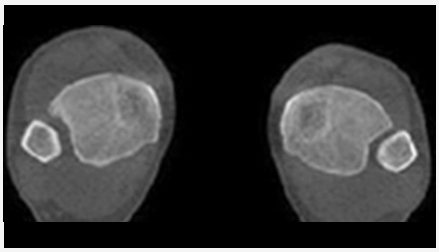
HiRise®

Weight Bearing CT Imaging Sports Medicine

Low Dose | Comfortable Standing Position | Quick Scan Times

Common Indications

Syndesmosis

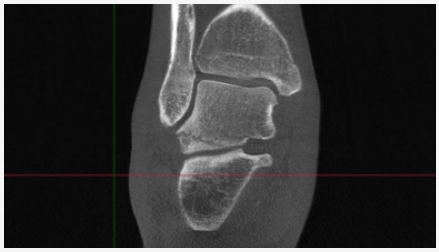


- Provide increased sensitivity and specificity over radiographs[1].
- Differentiate pathology from natural variability in patient anatomy via contralateral comparison to uninjured ankle as internal control[2].
- Help detect subtle syndesmosis injuries[1].

Lisfranc Injuries

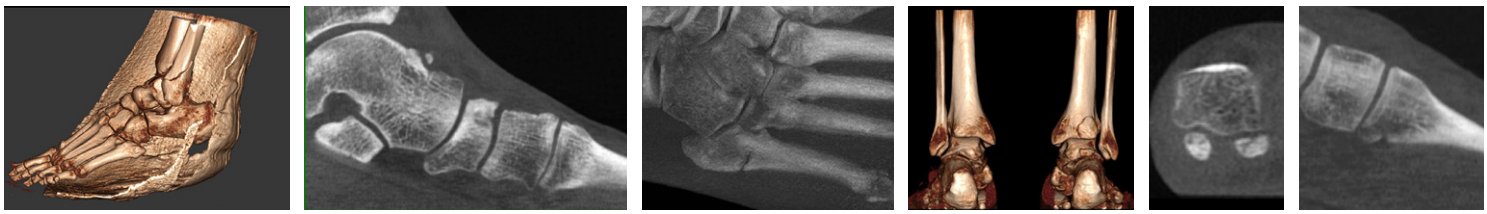
- Better characterize bony injuries[3].
- Evaluate the 3D Lisfranc joint complex under physiologic load[4].
- Identify subtle Lisfranc injuries by effectively differentiating between stable and unstable Lisfranc injuries[5].

Fractures



- 35% improved fracture detection and 2-fold improved identification of complex fracture over X-Ray[6].
- CBCT helps in the evaluation of the fracture healing process which X-Ray can over or under-estimate[7].

35% improved fracture detection[8]



"I now CT every ankle fracture, and I have been surprised at the variability."

Dr. Martin O'Malley, MD
Team Orthopedist
Brooklyn Nets, New York, NY

(1) Lintz F, Bernasconi A, Ferkel EI. Can Weight-Bearing Computed Tomography Be a Game-Changer in the Assessment of Ankle Sprain and Ankle Instability? Foot Ankle Clin. 2023 Jun;28(2):283-295. doi: 10.1016/j.fcl.2023.01.003. PMID: 37137623.
(2) Hagemeijer NC, Chang SH, Abdelaziz ME, Casey JC, Waryasz GR, Guss D, DiGiovanni CW. Range of Normal and Abnormal Syndesmotic Measurements Using Weightbearing CT. Foot Ankle Int. 2019 Dec;40(12):1430-1437. doi: 10.1177/1071100719866831. Epub 2019 Aug 23. PMID: 31442094
(3) 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.
(4) Bhimani R, Sornsakrin P, Ashkani-Esfahani S, Lubberts B, Guss D, De Cesar Netto C, Waryasz GR, Kerkhoffs GMMJ, DiGiovanni CW. Using area and volume measurement via weightbearing CT to detect Lisfranc instability. J Orthop Res. 2021 Nov;39(11):2497-2505. doi: 10.1002/jor.24970. Epub 2021 Jan 6. PMID: 33368556.
(5) 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-weberb-ser2-fractures/
(6) Wukich DK, Sung W, Wipf SA, Armstrong DG. The consequences of complacency: managing the effects of unrecognized Charcot feet. Diabet Med. 2011 Feb;28(2):195-8. doi: 10.1111/j.1464-5491.2010.03141.x. PMID: 21219429.
(7) Posadzy M, Desimpel J, Vanhoenacker F. Cone beam CT of the musculoskeletal system: clinical applications. Insights Imaging. 2018 Feb;9(1):35-45. doi: 10.1007/s13244-017-0582-1. Epub 2018 Jan 4. PMID: 29302798; PMCID: PMC5825310
(8) 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/.

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