

Scan and X-ray protocol

CT scans

Patient position

Patient must be positioned in supine position (SFF: Supine, Feet First). The patient cannot move during the scan procedure.

The target leg must be lying flat on the table. The contralateral leg should be flexed so that it is out of plane and Field of View (FOV) from target leg.



Scanned anatomy

Scan the entire tibia and the foot, from the tibial plateau to the bottom of the calcaneus. The navicular bone is required.

Scan parameters

Scan type	Helical CT Scan without contrast (no arthrography)
Scan coverage	The total tibia and the foot should be acquired, starting from tibial plateau to the calcaneus. The navicular bone must be included.
Scan parameters	• Helical • 120KV • 100-250mA With Smart MA selected to reduce Radiation Dose • SCFOV: Large • DFOV: 25cm • Slice Thickness: continuous slices 0.625mm • Pitch factor: 0.984 :1* – *As close to 1:1 ratio as possible
Reconstruction parameters	• Matrix: 512 x 512 • Metal Artifact Reduction should be applied when hardware is present • Standard algorithm without edge enhancement • Bone filter is suitable • Any filter beneficial to the diagnosis can be applied additionally to the primary acquisition • No gantry tilt • No oblique reconstructions
Do not	• Inject contrast product • Change the coordinates system during the acquisition • Change the image parameters • Concatenate several CT scan acquisitions into one



0.625mm slice spacing
continuous through
shaded region

Data format

The CT scan must be exported as primary scans in DICOM format without compression.

X-rays

- Weight-bearing X-rays should be taken in lateral view
- The view should cover the entire foot and ground, up to the mid-tibia
- The X-ray should include the side mark “L” or “R”
- The patient should be standing in neutral position with both feet aligned



Uploading scans and X-rays

Upload CT Scans and Weight Bearing X-Rays through:

<https://ankleinteractive.smith-nephew.com>

Warnings

The original data must be archived by the imaging center. Anonymization of images is kept at the discretion of the hospital policy. Patient's data will be pseudonymized when fed into the software (3 first letters of name and first name).



This document is for informational and educational purposes only. It is not intended to serve as medical advice. It is the responsibility of treating physicians to determine and utilize the appropriate products and techniques according to their own clinical judgment for each of their patients. For more information on the TOTAL ANKLE Interactive Software including its indications for use, contraindications, and product safety information, please refer to the product's label and the Instructions for Use packaged with the product.