UT Southwestern Department of Radiology

Protocol Name: CT Ankle Arthroplasty
Epic Button: CT Ankle Arthroplasty
Indications: Pre surgical planning

Orderable Name: CT LOWER EXTREMITY LEFT WO IV CONTRAST
CT LOWER EXTREMITY RIGHT WO IV CONTRAST

Adult Only

CTDIvol < 50 mGy

 # Acquisitions: 2

Active Protocol

Oral Contrast: None	IV Contrast: None	Other Contrast: None	Airway
			Other Notes Patient supine, foot of interest 90 degree to lower leg Keep coordinate system and FOV same for knee and ankle. Scout include knee to foot in coronal and sagittal planes. Choose Right or Left extremity orderable by affected ankle. Dual energy/Spectral scanner required.

Last Change: 6/20/2024 **Last Review:** 1/29/2025 **Links:** General Statements

Special Instructions	Must perform with ankle, do not change FOV	Do not repeat CT scan, recon from 1st acquisition	Measure or calculate to get >10 cm above ankle, must include all of the foot	Do not repeat CT scan, recon from 2nd acquisition
Acq # / Series Name	1 Noncontrast	N/A Noncontrast	2 Noncontrast	N/A Noncontrast
Phase Timing		N/A		
Acquisition Protocol		Recon Only		Recon Only
Coverage	5 cm above to 5 cm below knee joint	Same	Mid Tib/Fib through bottom of foot. Include heel and toes.	Mid Tib/Fib through bottom of foot. Include heel and toes.
FOV	Keep knee and ankle FOV the same	Same	Keep knee and ankle FOV the same	Keep knee and ankle FOV the same
Algorithm	Bone	Soft Tissue	Bone	Soft Tissue
Axial Recons	1 mm, 3 mm	3 mm	1 mm, 3 mm	2.5 mm
Other Planar Recons	3 mm coronal and sagittal	3 mm coronal and sagittal	3 mm coronal and sagittal	2.5 mm coronal and sagittal
MIP Recons				
†DECT Philips	Gout maps (cor/sag), BM edema, SBI		Gout maps (cor/sag), BM edema, SBI	
†DECT Siemens	Gout maps (cor/sag), BM edema, low/high kVp, mono E 100, mono E 120		Gout maps (cor/sag), BM edema, low/high kVp, mono E 100, mono E 120	
†PC-CT Siemens				

† When dual energy (DE) or photon counting (PC) CT is used