

# UT Southwestern Department of Radiology

**Protocol Name:** CT Ankle Arthroplasty

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

Adult Only

**Epic Button:** CT Ankle Arthroplasty

CTDIvol < 50 mGy

**Indications:** Pre surgical planning

**# Acquisitions:** 2

Active Protocol

<b>Oral Contrast:</b> None	<b>IV Contrast:</b> None	<b>Other Contrast:</b> None	<b>Airway</b>
			<p><b>Other Notes</b> 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.</p>

Last Change: 1/13/2023

Last Review: 1/31/2024

Links: [General Statements](#)

<b>Special Instructions</b>	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
<b>Acq # / Series Name</b>	<b>1</b> Noncontrast	<b>N/A</b> Noncontrast	<b>2</b> Noncontrast	<b>N/A</b> Noncontrast
<b>Phase Timing</b>		N/A		
<b>Acquisition Protocol</b>		Recon Only		Recon Only
<b>Coverage</b>	5 cm above to 5 cm below knee joint	Same	>10 cm above ankle joint, cover heel and toes	>10 cm above ankle joint, cover heel and toes
<b>FOV</b>	Keep knee and ankle FOV the same	Same	Keep knee and ankle FOV the same	Keep knee and ankle FOV the same
<b>Algorithm</b>	Bone	Soft Tissue	Bone	Soft Tissue
<b>Axial Recons</b>	1 mm, 3 mm	3 mm	1 mm, 3 mm	2.5 mm
<b>Other Planar Recons</b>	3 mm coronal and sagittal	3 mm coronal and sagittal	3 mm coronal and sagittal	2.5 mm coronal and sagittal
<b>MIP Recons</b>				
<b>†DECT Philips</b>	Gout maps (cor/sag), BM edema, SBI		Gout maps (cor/sag), BM edema, SBI	
<b>†DECT Siemens</b>	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	
<b>†PC-CT Siemens</b>				

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