

UT Southwestern Department of Radiology

Protocol Name: CT Leg Complete + IV

Orderable Name: CT LOWER EXTREMITY LEFT W IV CONTRAST

Adult Only

Epic Button: Leg Complete + IV

CT LOWER EXTREMITY RIGHT W IV CONTRAST

CTDIvol < 50 mGy

Indications: Suspected infection, inflammation, tumor

Acquisitions: 1

Active Protocol

Oral Contrast: None	IV Contrast: IbIVContrast Rate (ml/sec): 3 Volume (ml): 60 - 75 IV Access: Power injection: 20g or larger strongly preferred (if 22g use) Notes: Adjust contrast volume based on patient size.	Other Contrast: None	Airway
			Other Notes Dual energy/Spectral scanner required. Photon counting scanner preferred unless gout is indicated. Metal (FOV): Use 140 kVp.

Last Change: 1/13/2023

Last Review: 1/29/2025

Links: [General Statements](#)

Special Instructions	Scan for whole leg but break into series, adjust series FOV when going from the upper to the lower leg. Use 5mm cor/sag if large patient or metal in FOV.	Do not repeat CT scan, recon soft tissue from 1st acquisition, send soft tissue kernel volume to TeraRecon Use 5mm cor/sag if large patient or metal in FOV.	Scan for whole leg but break into series, adjust series FOV when going from the upper to the lower leg. Use 5mm cor/sag if large patient or metal in FOV.	Do not repeat CT scan, recon soft tissue from 1st acquisition, send soft tissue kernel volume to TeraRecon Use 5mm cor/sag if large patient or metal in FOV.
Acq # / Series Name	1 60 Sec Delayed	N/A 60 Sec Delayed	2 60 Sec Delayed	N/A 60 Sec Delayed
Phase Timing	60 seconds	60 seconds	60 seconds	60 seconds
Acquisition Protocol		Recon Only		Recon Only
Coverage	Above acetabulum thru knee	Above acetabulum thru knee	Above knee thru toes	Above knee thru toes
FOV	Focused to size of upper leg	Focused to size of upper leg	Focused to size of lower leg	Focused to size of lower leg
Algorithm	Bone	Soft Tissue	Bone	Soft Tissue
Axial Recons	3 mm	4 mm, volume	3 mm	4 mm, Volume
Other Planar Recons	3 mm coronal and sagittal	4 mm coronal and sagittal	3 mm coronal and sagittal	4 mm coronal and sagittal
MIP Recons				
†DECT Philips	VNC, Gout maps (cor/sag), BM edema, SBI		VNC, Gout maps (cor/sag), BM edema, SBI	
†DECT Siemens	VNC, Gout maps (cor/sag), BM edema, low/high kVp, mono E 100, mono E 140		VNC, Gout maps (cor/sag), BM edema, low/high kVp, mono E 100, mono E 140	
†PC-CT Siemens				

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