

UT Southwestern Department of Radiology

Protocol Name: CT Leg Complete

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

Adult Only

Epic Button: Leg Complete

CTDIvol < 50 mGy

Indications: Trauma

Acquisitions: 1

Active Protocol

| | | | |
|----------------------------|--------------------------|-----------------------------|---|
| Oral Contrast: None | IV Contrast: None | Other Contrast: None | Airway |
| | | | Other Notes Metal (FOV):140 KVp,align beam along metal. Dual energy scanner required at CUH & OPB. |

Last Change: 1/13/2023

Last Review: 1/29/2025

Links: [General Statements](#)

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|-----------------------------|--|---|--|---|
| Special Instructions | 1 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 kernal volume to TeraRecon Use 5mm cor/sag if large patient or metal in FOV. | 1 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 kernal volume to TeraRecon Use 5mm cor/sag if large patient or metal in FOV. |
| Acq # / Series Name | 1 Noncontrast | N/A Noncontrast | 1 Noncontrast | N/A Noncontrast |
| Phase Timing | | | | |
| 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 | 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