

UT Southwestern Department of Radiology

Protocol Name: Shoulder CT Arthrogram

Orderable Name: CT UPPER EXTREMITY LEFT W IV CONTRAST
CT UPPER EXTREMITY RIGHT W IV CONTRAST

Adult Only

Epic Button: Shoulder CT Arthrogram

CTDIvol < 90 mGy

Indications: Intra-articular body, ligament tear, osteochondral lesion

Acquisitions: 1-2

Active Protocol

| | | | |
|----------------------------|--------------------------|---|--|
| Oral Contrast: None | IV Contrast: None | Other Contrast: UTSW: Volume(mL): Route: Intra-articular Notes: Contrast will be instilled by the radiologist in the fluoroscopy suite as part of the XR arthrogram procedure | Airway Other Notes Position supine: arm by the side and in external rotation with thumb on outside. Use Right/Left orderable based on protocol or side indicated in reason for exam. Metal (FOV): Use 140 kVp. Dual energy/Spectral scanner required. Photon counting scanner preferred unless gout is indicated. |
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Last Change: 1/13/2023

Last Review: 1/31/2024

Links: [General Statements](#) [Positioning Reference 1](#) [Positioning Reference 2](#)

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| Special Instructions | 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. | *Perform only on patients |
| Acq # / Series Name | 1 Post intraarticular | N/A Post intraarticular | 2* Post intraarticular |
| Phase Timing | | N/A | |
| Acquisition Protocol | | Recon Only | |
| Coverage | See illustration - Above acromioclavicular joint thru scapular tip | Same | See illustration - Above acromioclavicular joint thru scapular tip |
| FOV | Whole shoulder | Same | Whole shoulder |
| Algorithm | Bone | Soft Tissue | Bone |
| Axial Recons | 3 mm | 4 mm, Volume | 3mm |
| Other Planar Recons | 3 mm coronal and sagittal (see illustration) | 4 mm coronal and sagittal (see illustration) | 3 mm coronal and sagittal (see illustration) |
| MIP Recons | | | |
| †DECT Philips | Gout maps (cor/sag), BM edema, SBI, VNC | | Gout maps (cor/sag), BM edema, SBI, VNC |
| †DECT Siemens | Gout maps (cor/sag), BM edema, low/high kVp, mono E 100, mono E 120, VNC | | Gout maps (cor/sag), BM edema, low/high kVp, mono E 100, mono E 120, VNC |
| †PC-CT Siemens | | | |

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

