

# UT Southwestern Department of Radiology

**Protocol Name:** Shoulder CT With IV Contrast

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

Adult Only

**Epic Button:** Shoulder + IV

CT UPPER EXTREMITY RIGHT W IV CONTRAST

CTDIvol < 90 mGy

**Indications:** Suspected infection, inflammation, tumor

**# Acquisitions:** 1

Active Protocol

<b>Oral Contrast:</b> None	<b>IV Contrast:</b> <a href="#">Link to Contrast Information</a>	<b>Other Contrast:</b> None	<b>Airway</b>
	<b>Rate (ml/sec):</b> 3		
	<b>Volume (ml):</b> 60 - 75		
	<b>IV Access:</b>		
	Power injection: 20g or larger strongly preferred (if 22g use reduce rate to 2.5 mL/sec)		
	<b>Notes:</b>		
	Place IV in opposite arm of interest.		
	Adjust contrast volume based on patient size.		
			<b>Other Notes</b>
			*Place a marker at the site of most concern.
			Position: Supine, arm at side, thumb up (neutral)
			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.

Last Change: 1/13/2023

Last Review: 1/29/2025

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

<b>Special Instructions</b>	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.
<b>Acq # / Series Name</b>	<b>1</b> 45 Sec Delayed	<b>N/A</b> 45 Sec Delayed
<b>Phase Timing</b>	45 seconds	N/A
<b>Acquisition Protocol</b>		<a href="#">Recon Only</a>
<b>Coverage</b>	See illustration - Above acromioclavicular joint thru scapular tip	Same
<b>FOV</b>	Whole shoulder	Same
<b>Algorithm</b>	Bone	Soft Tissue
<b>Axial Recons</b>	3 mm	4 mm, Volume
<b>Other Planar Recons</b>	3 mm coronal and sagittal	4 mm coronal and sagittal
<b>MIP Recons</b>		
<b>†DECT Philips</b>	VNC, Gout maps (cor/sag), BM edema, SBI	
<b>†DECT Siemens</b>	VNC, 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

