

UT Southwestern Department of Radiology

Protocol Name: Chest Trauma - 2 phase

Orderable Name: CT CHEST W IV CONTRAST

Adult only

Protocol Epic Button: Chest Trauma - 2 Phase

CTDIvol < 60 mGy
DLP < 10000 mGycm

Indications: Trauma to chest and abdomen, concern for solid organ injury in abdomen
(e.g. multiple left-sided rib fractures)

Active Protocol

Acquisitions: 2

<p>Oral Contrast: None</p>	<p>IV Contrast: Link to Contrast Information Rate (mL/sec): 4 Volume (mL): 100</p> <p>IV Access: Power injection: 20g or larger strongly preferred (if 22g use reduce rate to 2.5 mL/sec)</p> <p>Notes:</p>	<p>Other Contrast: None</p> <p>Airway: Acquire on inspiration</p> <p>Other Notes: Consult body habitus kVp selection chart -If pt>280 lb don't use dual energy mode on Force/Flash scanners -Pediatric age 14-17 OR > 55 kg perform arterial phase only unless otherwise directed by Trauma team -Use if hemodynamically unstable, decreased renal function, or failure of dual-bolus injection -Bolus tracking 100 HU descending aorta + 5 secs</p>
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Last Change: 1/28/2022

Last Review: 1/28/2022

Links: [kVp Body Chart](#)

[General Statements](#)

[DualEnergy Perfusion HowTo](#)

Special Instructions	Send to TeraRecon (volume)	Do not repeat CT scan, recon lung from 1st acquisition	
Series Name	1 Arterial	2 Arterial	3 Portal Venous
Phase Timing	Bolus tracking in descending aorta	N/A	90 secs after 1st phase
Acquisition Protocol	Chest Standard	Recon Only	Chest Standard
Coverage	Base of neck through L1	Same	Base of neck through L1
FOV	Whole body	Same	Whole body
Algorithm	Soft Tissue	Lung	Soft Tissue
Primary Axial Recon	2 mm, 1 mm	2 mm	2 mm
Other Recons	2 mm coronal and sagittal		2 mm coronal and sagittal
MIP Recons	7x2mm axial		
*Dual Energy Philips			
*Dual Energy Siemens			



* When dual energy or spectral CT is used