



TRAUMA CTA CHEST- ABDOMEN-PELVIS

GE Revolution

Approval: E Alvarez, MD

rev:1

11/2025

INDICATION		Trauma						
POSITION / LANDMARK		Chin						
START/END LOCATIONS		Extending from the apex of the lung to the level of the lesser trochanter.						
CONTRAST PARAMETERS		100cc Isovue300, 4cc per second						
RESPIRATORY PHASE		Inspiration						
SCAN DELAY		Smart prep - track in aorta, portal venous phase start 70s after injection start, optional 3-5 minute delay excretory phase if there is concerns for urinary tract injury						
SCAN TYPE		Helical						
	KV	mA	Rot Time (sec)	Pitch	Speed (mm/rot)	Noise Index	ASiR	Dose Reduction
w/o	120	Smart mA 50-560	0.5	0.984:1	39.37	20		
Arterial, portal venous, optional delay	120	Smart mA 50-560	0.5	0.984:1	39.37	20		
TECHNIQUE	Using automated exposure control and adjustment of the mA and/or kV according to patient size, radiation dose to be kept as low as reasonably achievable to obtain optimal diagnostic quality images.							
Scans								
Series #	Series	Body Part	DFOV	Thick/Space	Algorithm	Notes		
1	Loc					AP/Lat		
2	Without	Chest/ Abd/Pel	36	5x5	STND	Without		
3	Arterial	Chest/ Abd/Pel	36	5x5	STND			
4	Portal venous	Abd/Pel	36	2.5x2.5	STND	70 sec scan delay		
5	3-5 min delay	Kidneys to symphysis	36	2.5x2.5	STND	optional 3-5 minute delay excretory phase if there is concerns for urinary tract injury		
Recons								

*Please note, recons are displayed as thickness X spacing



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Recon source Series #	Recon	Body Part	Thick / Space	Algorithm	W/L	Notes
2	AX	Chest/ abd / pel	1.25x0.625	STND		Do not send to PACS, use for recons
2	AX	Chest/ abd / pel	2 x 2	STND		wo
2	AX	Chest	5 x 5	Lung		wo
2	AX	Chest/ abd / pel	2.5 x 2.5	Bone		wo
2	SAG	Chest/ abd / pel	2.5 x 2.5	Bone		wo
2	COR	Chest/ abd / pel	2.5 x 2.5	Bone		wo
3	AX	Chest/ abd / pel	1.25x0.625	STND		Do not send to PACS, use for recons
3	AX	Chest/ abd / pel	2 x 2	STND		arterial
3	COR	Chest/ abd / pel	2 x 2	STND		arterial
3	SAG	Chest/ abd / pel	2 x 2	STND		arterial
4	AX	Abd/Pel	1.25x0.625	STND		Do not send to PACS, use for recons
4	AX	Abd / pel	2 x 2	STND		PV
4	COR	Abd / pel	2 x 2	STND		PV
2D / 3D Processing						
Source: Axial arterial source series 3						
1. Axial MIP 20x2						
Series required in PACS						
Loc, Dose Report, Source data, ALL recons except AX 1.25x0.625 recons, MIPs						

ADDITIONAL INSTRUCTIONS:

No small field of view spines/joints. Spine and joint CTs must be ordered separately.

If a 3-5 min delay is done, recon that in AX and COR kidneys to symphysis 2x2 STND

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