



CTA CHEST-ABDOMEN/PELVIS with

GE Revolution

Approval: E Alvarez, MD

rev:2

05/2026

INDICATION		Evaluating vascular issues, masses, or inflammation						
POSITION / LANDMARK		Chin						
START/END LOCATIONS		Above lung apex through lesser trochanters of the femurs						
CONTRAST PARAMETERS		100cc Isovue 300, 4cc per second						
RESPIRATORY PHASE		Inspiration						
SCAN DELAY		Smart prep - track in aorta						
SCAN TYPE		Helical						
	KV	mA	Rot Time (sec)	Pitch	Speed (mm/rot)	Noise Index	ASiR	Dose Reduction
w	120	Smart mA 50-560	0.5	0.984:1	39.37	20	30%	
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	Source data	Chest/Abd/Pel	36	2.5x2.5	STND	With contrast		
Recons								
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		
AX 1.25x0.625	COR	Chest	2x2	STND	400/40			
AX 1.25x0.625	SAG	Chest	2x2	STND	400/40			

*Please note, recons are displayed as thickness X spacing

AX 1.25x0.625	AX	Chest	5x5	LUNG	2000/ -400	
AX 1.25x0.625	AX MIP	Chest	10x2	LUNG		
AX 1.25x0.625	COR MIP	Chest	20x10	STND		
AX 1.25x0.625	COR	Abd/Pel	2x2	STND	400/40	
AX 1.25x0.625	SAG	Abd/Pel	2x2	STND	400/40	
AX 1.25x0.625	COR MIP	Abd/Pel	20x10	STND		

2D / 3D Processing

CHEST Source: Axial source with 2.5x2.5 standard window

1. MIP and VR rotation – rotate 360 with 36 images
2. Aorta Sag Oblique 2x2

CHEST/ABD/PELVIS Source: Axial source with 2.5x2.5 standard window

1. MIP and VR rotation – rotate 360 with 36 images

Series required in PACS

Loc, Dose Report, Source data, ALL recons except 1.25x0.625 AX, ALL 3D post processed images

ADDITIONAL INSTRUCTIONS:

For aneurysm/dissection or trauma, refer to separate dedicated protocols.