



CTA CHEST-ABDOMEN/PELVIS w/ and w/o (ANEURYSM / DISSECTION)

GE Revolution

Approval: E Alvarez, MD

rev:2

05/2026

INDICATION		AAA, Possible dissection, pre-endovascular repair, vascular malformation						
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
wo	120	Smart mA 50-560	0.5	0.984:1	39.37	20	30%	
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	w/o	Chest/Abd/Pel	36	5x5	Soft tissue	Without contrast		
3	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		
3	AX	Chest/Abd/Pel	1.25x0.625	STND		Do not send to PACS, use for recons		

*Please note, recons are displayed as thickness X spacing



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AX 1.25x0.625	COR	Chest	2x2	STND		
AX 1.25x0.625	SAG	Chest	2x2	STND		
AX 1.25x0.625	AX	Chest	5x5	LUNG		
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		
AX 1.25x0.625	SAG	Abd/Pel	2x2	STND		
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, wo series, Source data, ALL recons except 1.25x0.625 AX, ALL 3D post processed images

ADDITIONAL INSTRUCTIONS:

If any 3D post-processing (including, but not limited to, volume renderings, curved planar reformats, or vessel measurements) is anticipated to add more than five (5) minutes of delay to the delivery of critical results, such post-

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processing should be omitted. The imaging protocol should otherwise be followed as listed, including acquisition of required thin slices, specified multiplanar reformats (MPRs), and console generated maximum intensity projections (MIPs).

Without done for special instructions on order

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