

UT Southwestern Department of Radiology

Protocol Name: CTA Chest-Thoracic Aorta (single source)

Orderable Name: CT ANGIOGRAM CHEST W AND/OR WO IV CONTRAST

Adult Only

Epic Button: CTA Chest-Thoracic Aorta (single source)

CTDIvol < 60 mGy

Indications: Thoracic and/or Abdominal aortic aneurysm, pre-op

Acquisitions: 1

Active Protocol

Oral Contrast: None	IV Contrast: Link to Contrast Information Rate (ml/sec): 4 Volume (ml): 100 IV Access: Power injection: 20g or larger in large vein (prefer AC fossa or forearm) Notes: Bolus tracking: 150 HU in abdominal aorta @ supra-renal level, initiate scan 8 sec after trigger. (send bolus tracker to PACS).	Other Contrast: None	Airway Full inspiration Other Notes Read by Cardiothoracic and VIR divisions. Consult body habitus kVp selection chart. UTSW: Check attenuation of the suprarenal aorta (same location as bolus tracking) on the arterial phase at the time of scan. If HU< 250 HU, call radiologist to determine next steps and document in tech note.
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Last Change: 10/19/2022

Last Review: 2/21/2025

Links: [kVp Body Chart](#)

[General Statements](#)

[CTA aorta parameter table 8-22 update](#)

Special Instructions	Retrospective ECG gated with tube current modulation peak @35%RR	
	Send volume to TeraRecon and Syngo Via	
Acq # / Series Name	1 Early Arterial	
Phase Timing	Bolus tracking	
Acquisition Protocol	Vascular	
Coverage	Base of neck to dome of liver	
FOV	Skin to skin at widest portion of patient	
Algorithm	Soft Tissue	
Axial Recons	2 mm, 0.5 mm	
Other Planar Recons	2 mm coronal and sagittal	
MIP Recons	7x2mm axial	
†DECT Philips	mono E 40 1mm axial, SBI	
†DECT Siemens		
†PC-CT Siemens		

† When dual energy (DE) or photon counting (PC) CT is used

