

UT Southwestern Department of Radiology

Protocol Name: CTA Chest-Endograft (single source)

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

Adult Only

Epic Button: CTA Chest-Endograft (single source)

CTDIvol < 60 mGy

Indications: Thoracic aortic aneurysm with stent graft

Acquisitions: 3

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 VIR division 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	Send volume to TeraRecon and Syngo Via	Send volume to TeraRecon and Syngo Via	Send volume to TeraRecon and Syngo Via
	1 Noncontrast	2 Early Arterial	3 Delayed
Acq # / Series Name			
Phase Timing		Bolus tracking	40 sec after arterial phase
Acquisition Protocol	Chest Standard	Vascular	Vascular
Coverage	Base of neck to dome of liver	Base of neck to dome of liver	Base of neck to dome of liver
FOV	Skin to skin at widest portion of patient	Skin to skin at widest portion of patient	Skin to skin at widest portion of patient
Algorithm	Soft Tissue	Soft Tissue	Soft Tissue
Axial Recons	2 mm, 0.5 mm	2 mm, 0.5 mm	2 mm, 0.5 mm
Other Planar Recons	2 mm coronal and sagittal	2 mm coronal and sagittal	2 mm coronal and sagittal
MIP Recons		7x2 mm axial	
†DECT Philips		mono E 40 1mm axial, SBI	mono E 40 1mm axial, SBI
†DECT Siemens			
†PC-CT Siemens			

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

