

# UT Southwestern Department of Radiology

**Protocol Name:** CTA Chest-Endograft (dual source)

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

Adult Only

**Epic Button:** CTA Chest-Endograft (dual source)

CTDIvol < 60 mGy

**Indications:** Thoracic aortic aneurysm with stent graft

**# Acquisitions:** 3

Active Protocol

<b>Oral Contrast:</b> None	<b>IV Contrast:</b> <a href="#">Link to Contrast Information</a> <b>Rate (ml/sec):</b> 4 <b>Volume (ml):</b> 80 <b>IV Access:</b> Power injection: 20g or larger in large vein (prefer AC fossa or forearm)  <b>Notes:</b> Bolus tracking: 150 HU in abdominal aorta @ supra-renal level, initiate scan 10 sec after trigger. (send bolus tracker to PACS).  Dual Energy: Inject 100ml at 4ml/s initiate scan 8 sec after trigger.	<b>Other Contrast:</b> None	<b>Airway</b> Full inspiration  <b>Other Notes</b> Read by VIR division Consult body habitus kVp selection chart. Siemens Flash/Force: FLASH when Gated; Dual Energy when Non-Gated.  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: 1/9/2023

Last Review: 2/21/2025

Links: [kVp Body Chart](#)

[General Statements](#)

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

<b>Special Instructions</b>	Send volume to TeraRecon and Syngo Via	use Dual Energy mode when gated not required. use FLASH mode prospective ECG triggered @ 35% RR  Send volume to TeraRecon and Syngo Via	Send volume to TeraRecon and Syngo Via
<b>Acq # / Series Name</b>	<b>1</b> Noncontrast	<b>2</b> Early Arterial	<b>3</b> Delayed
<b>Phase Timing</b>		Bolus tracking	40 sec after arterial phase
<b>Acquisition Protocol</b>	<a href="#">Chest Standard</a>	<a href="#">Vascular</a>	<a href="#">Vascular</a>
<b>Coverage</b>	Base of neck to dome of liver	Base of neck to dome of liver	Base of neck to dome of liver
<b>FOV</b>	Skin to skin at widest portion of patient	Skin to skin at widest portion of patient	Skin to skin at widest portion of patient
<b>Algorithm</b>	Soft Tissue	Soft Tissue	Soft Tissue
<b>Axial Recons</b>	2 mm, 0.5 mm	2 mm, 0.5 mm	2 mm, 0.5 mm
<b>Other Planar Recons</b>	2 mm coronal and sagittal	2 mm coronal and sagittal	2 mm coronal and sagittal
<b>MIP Recons</b>		7x2 mm axial	
<b>†DECT Philips</b>		1x0.5mm monoE 40	
<b>†DECT Siemens</b>		1x0.5mm monoE 40	
<b>†PC-CT Siemens</b>			

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

