UT Southwestern Department of Radiology

Protocol Name: CTA Chest/Abd/Pel-Endograft (dual source)

Epic Button: CTA Chest/Abd/Pel-Endograft (dual source)

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

Adult Only

CTDIvol < 60 mGy

Indications: Post-op for Thoracic and/or Abdominal aortic aneurysm (EVAR, TEVAR, FEVAR, or surgical graft) repaired or unrepaired, chronic aortic dissection.

 # Acquisitions: 3

Active Protocol

Oral Contrast: None

IV Contrast: lt;a ref=quot;https://www.u

Rate (ml/sec): 4

Volume (ml): 80

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 10 sec after trigger. (send bolus tracker to PACS).

Dual Energy: Inject 100ml at 4ml/s initiate scan 8 sec after trigger.

Other Contrast: None

Airway

Full inspiration

Other Notes

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.

Last Change: 2/21/2025 **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	use Dual Energy mode when gated not required. use FLASH mode prospective ECG triggered @ 35% RR Send volume to TeraRecon	Send volume to TeraRecon and Syngo Via
Acq # / Series Name	1 Noncontrast	2 Early Arterial	3 Delayed
Phase Timing		Bolus Tracking	40 sec after arterial phase
Acquisition Protocol	Abdominal Standard 5mm	Vascular	Vascular
Coverage	Base of neck to lesser trochanters	Base of neck to lesser trochanters	Base of neck to lesser trochanters
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		7x2mm axial, sagittal and coronal	7x2mm axial, sagittal and coronal
†DECT Philips		1x0.5mm monoE 40	
†DECT Siemens		1x0.5mm monoE 40	
†PC-CT Siemens			

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