

UT Southwestern Department of Radiology

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

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

Adult Only

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

CTDIvol < 60 mGy

Indications: Thoracic aortic aneurysm

Acquisitions: 1

Active Protocol

Oral Contrast: None

IV Contrast: [Link to Contrast Information](#)

Other Contrast: None

Airway

Full inspiration

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).

Other Notes

Read by Cardiothoracic and VIR divisions. Consult body habitus kVp selection chart. Use FLASH mode on Siemens Flash/Force scanners.

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: 8/10/2022

Last Review:

Links: [kVp Body Chart](#)

[General Statements](#)

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

| | |
|-----------------------------|---|
| Special Instructions | Use FLASH mode Prospective ECG triggered @ 35% RR Send volume to TeraRecon |
| 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 |
| Primary Axial Recon | 2 mm, 0.5 mm |
| Other Recons | 2 mm coronal and sagittal |
| MIP Recons | 7x2mm axial |
| *Dual Energy Philips | |
| *Dual Energy Siemens | |

