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: Thoracic involvement of aortic aneurysm with stent graft, evaluation of known dissection/stent, chronic aortic dissection, TEVAR

 # Acquisitions: 3

Active Protocol

Oral Contrast: None

IV Contrast: Link to Contrast Information
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 Contrast: None

Airway
Full inspiration

Other Notes
Read by VIR division
Consult body habitus kVp selection chart.
Use FLASH mode when scanning on Siemens Flash/Force.

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: 8/17/2022 **Last Review:** 8/23/2022 **Links:** kVp Body Chart | General Statements | CTA aorta parameter table 8-22 update

Special Instructions	Send volume to TeraRecon	use FLASH mode prospective ECG triggered @ 35% RR Send volume to TeraRecon	Send volume to TeraRecon
Acq # / Series Name	1 Noncontrast	2 Early Arterial	3 Delayed
Phase Timing		Bolus Tracking	40 sec after arterial injection
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
Primary Axial Recon	2 mm, 0.5 mm	2 mm, 0.5 mm	2 mm, 0.5 mm
Other Recons	2 mm coronal and sagittal	2 mm coronal and sagittal	2 mm coronal and sagittal
MIP Recons		7x2 mm axial	
***Dual Energy Philips**			
***Dual Energy Siemens**			

*** When dual energy or spectral CT is used**