

UT Southwestern Department of Radiology

Protocol Name: CTA Abd/Pel/Lower Ext-AOLL

Orderable Name: CT ANGIOGRAM ABD PEL AND LWR EXT (RUNOFF) W AND/OR WO IV CONT

Adult Only

Epic Button: CTA Abd/Pel/Lower Ext-AOLL

CTDIvol < 60 mGy

Indications: Aneurysm, Poor Circulation, Vascular Abnormality, Free Flap, Pre-Op planning, lower extremity wounds/ulcers, clotification.

Acquisitions: 2

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. Place feet with heels together and toes pointing outward if possible-like a duck. (May tape them together if needed.) 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: 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	Send volume to TeraRecon and Syngo Via
Acq # / Series Name	1 Early Arterial	2 Delayed
Phase Timing	Bolus tracking	Immediate after arterial
Acquisition Protocol	Vascular	Vascular
Coverage	Top of diaphragm to toes	Groin to toes
FOV	Skin to skin at widest portion of patient	Skin to skin at widest portion of patient
Algorithm	Soft Tissue	Soft Tissue
Axial Recons	2 mm, 1 mm	2 mm, 1 mm
Other Planar Recons	2 mm coronal and sagittal (A/P Only)	
MIP Recons		
†DECT Philips	mono E 40 2mm axial (legs only for all series)	mono E 40 2mm axial (legs only for all series)
†DECT Siemens	mono E 40 2mm axial, VNC, Iodine Map (legs only for all series)	mono E 40 2mm axial, VNC, Iodine Map (legs only for all series)
†PC-CT Siemens		

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

