

UT Southwestern Department of Radiology

Protocol Name: CTA Abd-Renal Donor

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

Adult Only

Epic Button: CTA Abd-Renal Donor

CTDIvol < 60 mGy

Indications: Planning for kidney transplant donation

Acquisitions: 3

Active Protocol

<p>Oral Contrast: None</p>	<p>IV Contrast: Link to Contrast Information</p> <p>Rate (mL/sec): 4</p> <p>Volume (mL): 100</p> <p>IV Access: Power injection: 20g or larger in large vein (prefer AC fossa or forearm)</p> <p>Notes: Bolus tracking: 150 HU in abdominal aorta @ supra-renal level, initiate scan 8 sec after trigger. (send bolus tracker to PACS)</p>	<p>Other Contrast: None</p>	<p>Airway Full inspiration</p> <p>Other Notes Read by VIR division Consult body habitus kVp selection chart.</p> <p>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.</p>
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Last Change: 10/19/2022

Last Review: 2/9/2022

Links: [kVp Body Chart](#)

[General Statements](#)

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

Special Instructions		Send volume to TeraRecon	Repeat scout after this phase
Acq # / Series Name	1 Noncontrast	2 Early Arterial	3 5 Min Delayed
Phase Timing		Bolus tracking	5 Min Delayed
Acquisition Protocol	Abdominal Standard 5mm	Vascular	Vascular
Coverage	Thru kidneys	Just above kidneys to 4cm below iliac crest	Thru kidneys
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	2 mm, 0.5 mm	5 mm
Other Recons	2 mm coronal and sagittal	2 mm coronal and sagittal	4 mm coronal and sagittal
MIP Recons		7x2mm axial	
*Dual Energy Philips		mono E 40 1mm axial, SBI	mono E 40 1mm axial, SBI
*Dual Energy Siemens			

