

# 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:** 4

Active Protocol

<p><b>Oral Contrast:</b> None</p>	<p><b>IV Contrast:</b> <a href="#">Link to Contrast Information</a></p> <p><b>Rate (mL/sec):</b> 4</p> <p><b>Volume (mL):</b> 100</p> <p><b>IV Access:</b> Power injection: 20g or larger in large vein (prefer AC fossa or forearm)</p> <p><b>Notes:</b> Bolus tracking: 150 HU in abdominal aorta @ supra-renal level, initiate scan 8 sec after trigger. (send bolus tracker to PACS)</p>	<p><b>Other Contrast:</b> None</p>	<p><b>Airway</b> Full inspiration</p> <p><b>Other Notes</b> 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 &lt; 250 HU, call radiologist to determine next steps and document in tech note.</p>
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Last Change: 10/31/2023

Last Review: 1/4/2024

Links: [kVp Body Chart](#)

[General Statements](#)

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

<b>Special Instructions</b>		Send volume to TeraRecon	Send Volume to TeraRecon	
<b>Acq # / Series Name</b>	<b>1</b> Noncontrast	<b>2</b> Early Arterial	<b>3</b> Venous	<b>4</b> 10 Min Delayed
<b>Phase Timing</b>		Bolus tracking	40 sec after arterial phase	10 Min Delayed
<b>Acquisition Protocol</b>	<a href="#">Abdominal Standard 5mm</a>	<a href="#">Vascular</a>	<a href="#">Vascular</a>	<a href="#">Vascular</a>
<b>Coverage</b>	Thru kidneys	Just above kidneys to 4cm below iliac crest	Just above kidneys to 4cm below iliac crest	Thru kidneys
<b>FOV</b>	Skin to skin at widest portion of patient	Skin to skin at widest portion of patient	Skin to skin at widest portion of patient	Skin to skin at widest portion of patient
<b>Algorithm</b>	Soft Tissue	Soft Tissue	Soft Tissue	Soft Tissue
<b>Axial Recons</b>	2 mm	2 mm, 0.5 mm	2 mm, 0.5 mm	5 mm
<b>Other Planar Recons</b>	2 mm coronal and sagittal	2 mm coronal and sagittal	2 mm coronal and sagittal	4 mm coronal and sagittal
<b>MIP Recons</b>		7x2mm axial		
<b>†DECT Philips</b>		mono E 40 1mm axial, SBI	mono E 40 1mm axial, SBI	mono E 40 1mm axial, SBI
<b>†DECT Siemens</b>				
<b>†PC-CT Siemens</b>				

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