

## RII – CTA FOR AORTIC DISSECTION GE LIGHTSPEED VCT PROTOCOL

**Indications: Suspicion for aortic dissection**

<b>Position/Landmark</b>	Head first or feet first-Supine Sternal Notch			
<b>Topogram Direction</b>	Craniocaudal			
<b>Respiratory Phase</b>	Inspiration			
<b>Scan Type</b>	Helical			
<b>KV / mA / Rotation time (sec)</b> <b>Pitch / Speed (mm/rotation)</b> <b>Noise Index / ASiR / Dose Reduction</b>	120kv / smart mA (120-450) / 0.5 sec 0.984:1 , 39.37mm 16.0 / 70 / 30%			
<b>Detector width x Rows = Beam Collimation</b>	0.625mm x 64 = 40mm			
<b>Average Tube Output</b>	ctdi – 9 mGy dlp – 623 mGy.cm			
<b>Helical Set</b> Slice Thickness/ Spacing Algorithm Recon Destination	recon	body part	thickness/ spacing	recon destination .
	1	<b>arterial aorta</b>	2.5mm x 2.5mm	standard pacs
	2	thin chest/abdomen	.6mm x .6mm	standard for dmpr
	3	<b>lungs</b>	5mm x 5mm	lung pacs
<b>Scan Start / End Locations</b>	1cm superior to lung apices through aortic bifurcation (level of S1)			
<b>DFOV</b>	38cm decrease appropriately			
<b>IV Contrast Volume / Type / Rate</b>	100mL Iohexol (Omnipaque 350) / 4mL per second			
<b>Scan Delay</b>	Smart Prep at descending thoracic aorta at level of carina			
<b>2D/3D Technique Used</b>	DMPR of 5mm x 5mm <b>coronal chest/abdomen</b> series (auto-batch on), 2mm x 2mm <b>sagittal oblique aorta</b> series (auto-batch off), average mode, auto-transferred to PACS.			
<b>Comments:</b>	Recon 2 is a single thin helical group of the chest and abdomen for direct mpr. The smart prep threshold is +100 HU.			
<b>Images required in PACS</b>	Scouts, 2.5mm x 2.5mm axial arterial chest abdomen, 5mm x 5mm coronal chest and abdomen, 2mm x 2mm sagittal oblique aorta, 5mm x 5mm axial lungs, Dose Report			