RIH – CHEST CTA GE LIGHTSPEED VCT PROTOCOL

Indications: Evaluation of the thoracic aorta

Position/Landmark	Head first or feet first-Supine				
	Sternal Notch				
Topogram Direction	Craniocaudal				
Respiratory Phase	Inspiration				
Scan Type	Helical				
KV / mA / Rotation time (sec)	120kv / smart mA (120-450) / 0.5 sec				
Pitch / Speed (mm/rotation)	0.984:1 , 39.37mm				
Noise Index / ASiR / Dose Reduction	16.0 / 70 / 30%				
Detector width x Rows = Beam	0.625mm x $64 = 40$ mm				
Collimation					
Average Tube Output	ctdi - 9.3 mGy				
	dlp – 345 mGy.cm				
Helical Set		body	thickness/		recon
Slice Thickness/ Spacing Algorithm	recon	part	spacing	algorithm	destination .
Recon Destination	1	arterial chest	2.5mm x 2.5mm	standard	pacs
Recon Destination	2	thin chest	.6mm x .6mm	standard	for dmpr
	3	lungs	5mm x 5mm	lung	pacs
Scan Start / End Locations	1cm superior to lung apices mid kidney				
			5		
DFOV	38cm				
	decrease appropriately				
IV Contrast Volume / Type / Rate	100mL Iohexol (Omnipaque 350) / 4mL per second				
Scan Delay	Smart prep at the aortic arch				
2D/3D Technique Used	DMPR of 2mm x 2mm coronal arterial chest series (auto-batch on), mip				
	/	auto-transferred t		1	
Comments: The smart prep threshold	1 for the	arterial phase is -	100 hu at the aortic ar	cn	
Images required in PACS	ages required in PACSScouts, 2.5mm x 2.5mm axial arterial chest, 5mm x 5mm coronal ar chest, 5mm x 5mm axial lungs, Dose Report				
	chest,		Tungs, Dose Report		