## RIH – CHEST FOR THORACIC AORTA ANEURYSM REPAIR GE LIGHTSPEED VCT PROTOCOL

## Indications: Evaluate patentcy of stent graft, to determine thrombosis of excluded portion of aorta, and to look for endovascular leaks.

Position/Landmark		Head first or feet first-Supine Sternal Notch				
Tonogram Direction						
Topogram Direction		Craniocaudal				
Respiratory Phase	Inspiration					
Scan Type	Helical					
KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction	120kv / smart mA (100-450) / 0.5 sec 0.984:1 , 39.37mm 11.0 nc and 16.0 contrast / 70 / 30%					
Detector width x Rows = Beam Collimation		0.625mm x $64 = 40$ mm				
Average Tube Output		Each Helical: ctdi – 9.3 mGy dlp – 345 mGy.cm				
First Helical Set		body	thickness/		recon	
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .	
Algorithm	1	non con chest	5mm x 5mm	standard	pacs	
Recon Destination	2	lung	5mm x 5mm	lung	pacs	
Second Helical Set		body	thickness/		recon	
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .	
Algorithm	1	arterial chest	2.5mm x 2.5mm	standard	pacs	
Recon Destination	2	thin chest	.6mm x .6mm	standard	for dmpr	
Third Helical Set		body	thickness/		recon	
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .	
Algorithm	1	delayed chest	2.5mm x 2.5mm	standard	pacs	
Recon Destination	2	thin chest	.6mm x .6mm	standard	for dmpr	
Scan Start / End Locations	1cm superior to lung apices mid kidney					
DFOV	38cm					
	decrease appropriately					
IV Contrast Volume / Type / Rate	100mL Iohexol (Omnipaque 350) / 4mL per second					
Scan Delay	Arterial Delayed					
	smart prep 120 seconds					
2D/3D Technique Used	DMPR of 5mm x 5mm <b>coronal chest</b> series of the arterial and delayed phases (auto-batch on), mip mode, auto-transferred to PACS.					
<b>Comments:</b> This protocol is a non co aorta aneurysm repair. The smart pre	ontrast, t	hen arterial phase	, then delayed phase of	f the chest to as		
Images required in PACS	Scouts, 5mm x 5mm axial non con chest, 5mm x 5mm axial non con lungs, 2.5mm x 2.5mm axial arterial chest, 5mm x 5mm coronal arterial chest, 2.5mm x 2.5mm axial delayed chest, 5mm x 5mm coronal delayed chest, Dose Report					