## RIH – GATED AORTA AND ABDOMEN PELVIS CTA (TAVI) GE LIGHTSPEED VCT PROTOCOL

Position/Landmark	Feet first-Supine				
	Sternal Notch				
Topogram Direction	Craniocaudal				
Respiratory Phase	Inspiration				
Scan Type	Helical				
<b>KV / MA / Rotation time (sec)</b>	120kv / smart mA (160-650) / 0.4 sec				
Pitch / Speed (mm/rotation)	.20:1 , 10.4mm				
Noise Index / ASIR / Dose Doduction	/ 20 / 20%				
Reduction Detector width y Down - Doom	0.625mm x $64 - 40$ mm				
Collimation	$0.62511111 \times 64 = 40$ mm				
Average Tube Output		Gated Ch	est CTA Ab	d/Pelvis CTA	
		ctdi – 31	.5 mGv ct	di – 7mGv	
		dlp – 796.4	mGy.cm dlp –	255.3 mGy.cm	
First Helical Set		body	thickness/	2	recon
Slice Thickness/ Spacing	recor	n part	spacing	algorithm	destination .
Algorithm	1	thin gated cta	6mm x 6mm	standard	terarecon/riha
Recon Destination	2	gated chest cta	2 5mm x 2 5mm	standard standard	nacs
	3	lungs	2.5mm x 2.5mm	lung	pacs
Second Helical Set	5	body	thickness/	i iung	recon
Slice Thickness/ Spacing	recor	n nart	spacing	algorithm	destination
Algorithm	1	thin abd/nalvia ata	Spacing	atenderd	tararagan/riha
Recon Destination	1	unin abd/pervis cta		standard	terarecon/ma
	2	abd/pelvis cta	2.5mm x 2.5mn	n standard	pacs
Scan Start / End Locations			lung apices	5	
	lesser trochanters				
DFOV	38cm				
IV Contrast Volume / Type / Rate	60mL Iohexol (Omnipaque 350) / 4.5mL per second				
	70mL Iohexol (Omnipaque 350) / 3mL per second				
	50mL saline / 3mL per second				
Scan Delay	smart prep at aortic arch				
2D/3D Technique Used	.6mn	n, 25% - 45% r to	r retro-recon, 5%	increment, of on	ly the chest cta.
	Send these retro-recons to TeraRecon (RITRAQGT_AE)				
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<b>Comments:</b> The ct angiogram will be in two groups. The first is the gated scan from the lung apices to the bottom					
of the heart. The max mA is set to occur at 25% to 45% of r to r. The second is a routine helical from the bottom					
of the heart to the lesser trochanters. A breast shield is not needed for this scan.					

• The cardiac monitor leads should be below the clavicles and just below the curvature of the left ribs. There cannot be a gap between the start and stop points of the two scans. The two scans should have the same centering and field of view.

Images required in PACS	From CT scanner: Scouts, 2.5mm axial chest abd pelvis cta, lung windows,
	Dose Report
	From 3d lab: Aortic valve measurements, Aorta/Iliac measurements, Curved
	reformats of aorta/iliacs.