RIH – NECK CHEST ABDOMEN PELVIS
GE LIGHTSPEED VCT PROTOCOL

Position/Landmark	Head first or feet first-Supine Sternal Notch
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) / 0.7 sec 1.375:1 , 55.00mm 10.0 / 20 / 20% (neck) 11.0 / 30 / 30% (chest abd pelvis)
Detector width x Rows = Beam Collimation	0.625mm x 64 = 40mm
Average Tube Output	First Helical: ctdi – 10.7mGy Second Helical: ctdi – 11.0mGy dlp – 305.6 mGy.cm dlp – 866 mGy.cm

First Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon	body part	thickness/ spacing	algorithm	recon destination .
	1	**neck**	2.5mm x 2.5mm	standard	pacs
	2	thin neck	.6mm x .6mm	standard	for dmpr

Second Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon	body part	thickness/ spacing	algorithm	recon destination .
	1	**chest abd pelvis**	5mm x 5mm	standard	pacs
	2	thin chest abd pelvis	.6mm x .6mm	standard	for dmpr
	3	lung	5mm x 5mm	lung	pacs

Scan Start / End Locations **DFOV**	neck external auditory meatus aortic arch 18cm	chest abdomen pelvis 1cm superior to lung apices lesser trochanters 38cm
	decrease appropriately	
IV Contrast Volume / Type / Rate	30mL Iohexol (Omnipaque 350) followed by 40mL of saline prior to scouts then 5 minute delay then 100mL Iohexol (Omnipaque 350) , 3mL/sec When oral contrast is prescribed, refer to the appropriate oral contrast agent's preparation and procedure guide.	
Scan Delay	30 seconds	
2D/3D Technique Used	DMPR of 3mm x 3mm **coronal neck** series (auto-batch on), average mode, auto-transferred to PACS DMPR of 5mm x 5mm **coronal chest, abdomen, pelvis** series (auto-batch on), average mode, auto-transferred to PACS.	

Comments: The recon 2 in each helical group is very thin of the neck and chest abdomen, pelvis for direct mpr. The second recons are 2.5mm x 2.5mm neck and 5mm x 5mm chest, abdomen, pelvis, standard algorithm, going to PACS. Recon 3 is the 5mm x 5mm lung algorithm going to PACS.

Images required in PACS	Scouts, 2.5mm x 2.5mm axial neck, 3mm x 3mm coronal neck, 5mm x 5mm axial chest abdomen pelvis, 5mm x 5mm coronal chest abdomen pelvis, 5mm x 5mm axial lungs, Dose Report

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