RIH – LUNG SCREENING
GE LIGHTSPEED VCT PROTOCOL

Indications – Survey of the lungs for nodules.

Position/Landmark	Head first or feet first-Supine Sternal Notch
Respiratory Phase	Inspiration
Topogram Direction	Craniocaudal
Scan Type	Helical
KV / mA / Rotation time (sec) **Pitch / Speed (mm/rotation)** **Noise Index / ASiR / Dose Reduction**	120kv / smart mA (50-150) / 0.5 sec 1.375:1 , 27.5mm 33.0 / 70 / 0%
Detector width x Rows = Beam Collimation	0.625mm x 32 = 20mm
Average Tube Output	ctdi – 4 mGy dlp – 110 mGy.cm

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

Scan Start / End Locations **DFOV**	1cm superior to lung apices 1cm inferior to costophrenic angles 38cm decrease appropriately
IV Contrast Volume / Type / Rate	
Scan Delay	
2D/3D Technique Used	DMPR of 2.5mm x 2.5mm **coronal chest** series (auto-batch on), average mode, auto-transferred to PACS.
Comments: Recon 2 is a single thin helical group of the chest for direct mpr.	
Images required in PACS	Scouts, 2.5mm x 2.5mm axial chest, 2.5mm x 2.5mm coronal chest, 2.5mm x 2.5mm axial lungs, Dose Report

updated Jan 23, 2017