

**RIH – LUNG SCREENING
GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL**

Indications – Survey of the lungs for nodules.

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 (50-450) / 0.5 sec 1.375:1 , 27.50mm 33.0 / 30 / 30%				
Detector width x Rows = Beam Collimation	1.25mm x 16 = 20mm				
Average Tube Output	ctdi – 4 mGy dlp – 110 mGy.cm				
Helical Set		body	thickness/		recon
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .
Algorithm	1	chest	2.5mm x 2.5mm	standard	pacs
Recon Destination	2	thin chest	1.2mm x .6mm	standard	for dmpr
	3	lung	2.5mm x 2.5mm	lung	pacs
Scan Start / End Locations	1cm superior to lung apices 1cm inferior to costophrenic angles				
DFOV	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				