RIH – HIGH RESOLUTION CHEST GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL

Indications - interstitial lung disease, emphysema, bronchiectasis, asbestosis, restrictive lung disease

Position/Landmark	Head first or feet first-Supine			
	Sternal Notch			
Topogram Direction	Craniocaudal			
Respiratory Phase	Inspiration and Expiration			
Scan Type	Helical and Axial			
KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index	Helical Axial 120kv / smart mA (100-400) / 0.5 sec 120kv / smart mA (100-400) / 0.5 sec 1.75:1, 35.00mm 1i 28.00 30.00			
Detector width x Rows = Beam Collimation	1.25mm x $16 = 20$ mm		0.625mm x 2 = 1.25mm	
Average Tube Output	Helical: ctdi – 9 mGy Each Ay dlp – 336 mGy.cm		xial: ctdi – 1 mGy dlp – 25 mGy.cm	
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	body <u>recon part</u> 1 thin chest 2 supine hi res lungs 3 lungs	thickness/ spacing 1.25mm x .6mm 1.25mm x 20mm 5mm x 5mm	algorithm standard bone+ lung	recon destination . for dmpr pacs pacs
First Axial Set Slice Thickness/ Spacing Algorithm Recon Destination	body <u>recon part</u> 1 supine hi res lungs expiratory	thickness/ spacing 1.25mm x 20mm	algorithm bone+	recon destination . pacs
Second Axial Set Slice Thickness/ Spacing Algorithm Recon Destination	body <u>recon part</u> 1 prone hi res lungs inspiratory	thickness/ spacing 1.25mm x 20mm	algorithm bone+	recon <u>destination</u> . pacs
Scan Start / End Locations DFOV	lung apices diaphragm 35cm decrease appropriately			
IV Contrast Volume / Type / Rate				
Scan Delay				
2D/3D Technique Used	DMPR of 5mm x 5mm axial and coronal chest series (auto-batch on), average mode, auto-transferred to PACS.			
Comments: There are three scans ir inspiration axials. Every effort mus consult a radiologist. A breast shiel	st be made to acquire prone i	mages. If the patient		
Images required in PACS	Scouts, 5mm x 5mm axial chest, 5mm x 5mm coronal chest, 5mm x 5mm axial lungs, 1.25mm x 20mm axial supine inspiration hi res lung, 1.25mm x 20mm axial supine expiration hi res lung, 1.25mm x 20mm axial prone inspiration hi res lung, Dose Report			