RIH – HIGH RESOLUTION CHEST SIEMENS DEFINITION AS+ PROTOCOL

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

Position/Landmark		Head first or feet first-Supine 2cm superior to shoulders				
Topogram Direction	-	Craniocaudal / Craniocaudal				
Respiratory Phase		Inspiration				
Scan Type		Helical				
Ref kV/Ref mAs/Rotation time (sec) Pitch / Speed (mm/rotation) Safire Strength / Dose Optimization		Care kV 120 / Care Dose4D 150 / 0.5 sec .6:1 , 24.00mm 3 / 4				
Detector width x Rows = Beam Collimation	0.62	HelicalAxial $0.625 \text{mm x } 64 = 40 \text{mm}$ $1 \text{mm x } 2 = 2 \text{mm}$ (128 x .6mm) $1 \text{mm x } 2 = 2 \text{mm}$		nm		
Average Tube Output		Helical: ctdi – 9 mGy dlp – 336 mGy.cmEach Axial: ctdi – .8 mGy dlp – 22 mGy.cm			-	
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon 1 2 3 4 5	body part chest lungs	thickness/ spacing 5mm x 5mm 5mm x 5mm 1.25mm x 20mm 5mm x 5mm .75mm x .7mm	algorithm I40f medium I70f very sharp I70f very sharp I40f medium I40f medium	recon destination . pacs pacs pacs pacs terarecon	
First Axial Set Slice Thickness/ Spacing Algorithm Recon Destination	recon 1		thickness/ spacing 1.25mm x 20mm	algorithm I70f very sharp	recon destination . pacs	
Second Axial Set Slice Thickness/ Spacing Algorithm Recon Destination	recon 1	body part prone hi res lungs inspiratory	thickness/ spacing 1.25mm x 20mm	algorithm I70f very sharp	recon destination . pacs	
Scan Start / End Locations DFOV		lung apices costophrenic angles 35cm decrease appropriately				
IV Contrast Volume / Type / Rate	-			utory		
2D/3D Technique Used		Workstream 4D mpr of 5mm x 5mm coronal chest series, auto-transferred to PACS.				
Comments: There are three scans in inspiration axials. Every effort must consult a radiologist.	this pro	tocol: supine inspirati	· •	1	-	
Images required in PACS	Topograms, 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, Patient Protocol					