RIH – PEDI HIGH RESOLUTION CHEST SIEMENS DEFINITION AS20 PROTOCOL

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

Position/Landmark		Head first or feet first-Supine				
Topogram Direction	2cm superior to shoulders Craniocaudal / Craniocaudal					
Topogram Direction	Cramocaudai / Cramocaudai					
Respiratory Phase	Inspiration					
Scan Type	Helical / Axial					
Ref kV/Ref mAs/Rotation time (sec) Pitch / Speed (mm/rotation) Safire Strength / Dose Optimization	Care kV 100 / Care Dose4D 100 / 0.5 sec .6:1, 12.00mm					
Detector width x Rows = Beam	Helical Axial					
Collimation		$25 \text{mm} \times 16 = 20 \text{mm}$	1 mm x 2 = 2 mm			
Average Tube Output		Helical: ctdi – 4 mGy Each Axial: ctdi – .8 mGy dlp – 186 mGy.cm dlp – 22 mGy.			•	
Helical Set		body	thickness/	•	recon	
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .	
Algorithm	1	chest	5mm x 5mm	I40f medium	pacs	
Recon Destination	2	lungs	5mm x 5mm	I70f very sharp	pacs	
		1	1.25mm x 20mm	I70f very sharp	pacs	
	4	coronal chest	5mm x 5mm	I40f medium	pacs	
	5	thin chest	1.5mm x 1mm	I40f medium	terarecon	
First Axial Set		body	thickness/	1 1.1	recon	
Slice Thickness/ Spacing Algorithm	recon		spacing	algorithm	destination .	
Recon Destination	1	supine hi res lungs expiratory	1.25mm x 10mm	B80s uitra snarp	pacs	
Second Axial Set		body	thickness/		recon	
Slice Thickness/ Spacing	recon		spacing	algorithm	destination .	
Algorithm Recon Destination	1	prone hi res lungs inspiratory	1.25mm x 10mm	B80s ultra sharp	pacs	
Scan Start / End Locations		1 0	lung apices			
	costophrenic angles					
	35cm					
DFOV	decrease appropriately					
IV Contrast Volume / Type / Rate						
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	_	_	_	
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					
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