RIH – 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				
Respiratory Phase	Inspiration					
Scan Type	Helical / Axial					
D-61-17/D-6A/D-4-4	Comp. kV 120 / Comp. Dogg 4D 150 / 0.5					
Ref kV/Ref mAs/Rotation time (sec) Pitch / Speed (mm/rotation)	Care kV 120 / Care Dose4D 150 / 0.5 sec .6:1, 12.00mm					
Safire Strength / Dose Optimization	3 / 4					
Detector width x Rows = Beam Collimation	1	Helical $25mm \times 16 = 20mm$		Axial $.6mm \times 6 = 3.$	75mm	
Average Tube Output		Helical: ctdi – 9 mGy Each Axial: ctdi – 8 mGy				
		dlp - 336 mGy.cm $dlp - 22$			2 mGy.cm	
Helical Set		body	thickness/		recon	
Slice Thickness/ Spacing Algorithm	recor		spacing	algorithm	destination .	
Recon Destination	1	chest	5mm x 5mm	I40f medium	pacs	
Treeon Bestmation	2 3	lungs supine hi res lungs	5mm x 5mm 1.25mm x 20mm	I70f very sharp I70f very sharp	pacs	
	4	coronal chest	5mm x 5mm	I40f medium	pacs	
	5	thin chest	1.5mm x 1mm	I40f medium	pacs terarecon	
First Axial Set		body	thickness/	1101 medium	recon	
Slice Thickness/ Spacing	recor	· · · · · · · · · · · · · · · · · · ·	spacing	algorithm	destination .	
Algorithm	1	supine hi res lungs	1.25mm x 20mm		pacs	
Recon Destination		expiratory				
Second Axial Set		body	thickness/		recon	
Slice Thickness/ Spacing	recor		spacing	algorithm	destination .	
Algorithm Recon Destination	1	prone hi res lungs	1.25mm x 20mm	I70f very sharp	pacs	
		inspiratory				
Scan Start / End Locations	lung apices					
	costophrenic angles					
DFOV	35cm decrease appropriately					
IV Contrast Volume / Type / Rate			decrease appropri	atery		
TV Contrast volume / Type / Table						
2D/3D Technique Used	Workstream 4D mpr of 5mm x 5mm coronal chest series, auto-transferred to PACS.					
Comments: There are three scans in			on helical, sunine	expiration axials	and prone	
Comments: There are three scans in this protocol: supine inspiration helical, supine expiration axials, and prone inspiration axials. Every effort must be made to acquire prone images. If the patient cannot hold their breath, please						
consult a radiologist.						
Images required in PACS	Topog	Гороgrams, 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					