

**RIH – CHEST
SIEMENS DEFINITION AS20 PROTOCOL**

Indications - Infection, pulmonary nodule, mass, effusion, empyema.

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 , 12.00mm 3 / non con 4 contrast 6				
Detector width x Rows = Beam Collimation	1.25mm x 16 = 20mm				
Average Tube Output	ctdi – 9 mGy dlp – 350 mGy.cm				
Helical Set		body	thickness/		recon
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .
Algorithm	1	chest	5mm x 5mm	I40f medium	pac
Recon Destination	2	lungs	5mm x 5mm	I70f very sharp	pac
	3	coronal chest	5mm x 5mm	I40f medium	pac
	4	thin chest	1.5mm x 1mm	I40f medium	terarecon
Scan Start / End Locations	1cm superior to lung apices through adrenal glands				
DFOV	38cm decrease appropriately				
IV Contrast Volume / Type / Rate	75mL Iohexol (Omnipaque 300) / 2mL per second if needed				
Scan Delay	40 seconds				
2D/3D Technique Used	Workstream 4D mpr of 5mm x 5mm coronal chest series, auto-transferred to PACS.				
Comments: Recon 4 is a thin helical volume of the chest that is archived to the TeraRecon server.					
Images required in PACS	Topograms, 5mm x 5mm axial chest, 5mm x 5mm coronal chest, 5mm x 5mm axial lungs, Patient Protocol				