

Chest Lung Screen

Siemens 16 Slice

Application Examples: lung screening low dose	
Oral Contrast	No
IV Contrast / Volume	No
Breath Hold	Inspiration

Technical Factors

Scan Type	Spiral
Detector Collimator	Acq 16 x 1.2 mm
kV / mAs / Rotation Time < 200 lbs	110 kV / 40 mAs / 0.6 seconds
kV / mAs / Rotation Time ≥ 200 lbs	110 kV / 80 mAs / 0.6 seconds
Care Dose	Off
Pitch	1.2
Typical CTDIvol < 200 lbs	2.89 mGy
Typical CTDIvol ≥ 200 lbs	5.77 mGy

Topogram: Lateral & PA, 512 mm (110 kV)

Chest	Width / Increment	Kernel	Window	Series Description	Networking
Recon 1	5 x 5	B30s	Mediastinum	AXIAL	PACS
Recon 2	2 x 2	B70s	Lung	AXIAL LUNG	PACS
Recon 3	1.5 x 0.7	B30s	Lung	AXIAL 1.5 x 0.7 STND	MPR / TeraRecon

This protocol is used for screening lung cancer.

Patient Position: Patient lying supine with arms above head and lower legs supported.

Scan Range: Entire lungs.

Recons: Adjust FoV to be less than 3 cm beyond ribs.

Reformations: Post processing done in 3D card.

Series: Chest	Reformat Type	Width / Increment	Window	Series Description	Networking
Recon 3	Coronal MIP	8 x 5	Lung	COR MIP	PACS
Recon 3	Axial MIP	8 x 5	Lung	AXIAL MIP	PACS
Recon 3	Sagittal MPR	3 x 3	Mediastinum	SAG	PACS