

Chest Lung Screen

Siemens Flash

Application Examples: lung screening

Oral Contrast	No
IV Contrast / Volume	No

Technical Factors

Scan Delay	3 seconds
Breath Hold	Inspiration

Scan Type	Spiral
Detector Collimator	Acq 128 x 0.6 mm
Care kV / mAs / Rotation Time (seconds) < 200lbs	Off / 100 / 40 mAs / 0.5
Care kV / mAs / Rotation Time (sec) 200-299lbs	Off / 100 / 80 mAs / 0.5
Care kV / mAs / Rotation Time (seconds) ≥ 300lbs	Off / 120 / 80 mAs / 0.5
Care Dose	Off
Pitch	1.2
Typical CTDIvol < 200lbs	1.65 mGy ± 50%
Typical CTDIvol 200-299lbs	3.30 mGy ± 50%
Typical CTDIvol > 300lbs	5.41 mGy ± 50%

Topogram: Lateral & PA, 512 mm (100 kv)

Chest	Recon Type	Width / Increment	Kernel	Safire	Window	Series Description	Networking	Post Processing
Recon 1	Axial	5 x 5	I30f	2	Mediastinum	AXIAL	PACS	None
Recon 2	Axial	2 x 2	I70f	2	Lung	AXIAL LUNG	PACS	None
Recon 3	3D:COR	8 x 5	I40f	2	Lung	COR MIP	PACS	Coronal MIP
Recon 4	3D: AXIAL	8 x 5	I40f	2	Lung	AXIAL MIP	PACS	Axial MIP
Recon 5	3D:SAG	3 x 3	I40f	2	Lung	SAG	PACS	Sagittal MPR
Recon 6	Axial	1.0 x 0.8	I31f	2	Mediastinum	AXIAL 1.0 X 0.8 STND	TeraRecon	None

This protocol is used for screening lung cancer.

Chart Review: Patient must meet the following requirements.

- Age 55-77
- Current Smoker or quit within 15 years
- ≥ 30 pack history
- No signs or symptoms of cancer
- Provider education complete

Patient Position: Patient lying supine with arms above head and lower legs supported.**Scan Range:** Entire lungs.**Recons and Reformations:** Adjust FoV to be less than 3 cm beyond the ribs.