Low Dose Lung Screening 64 Toshiba

Indications	Majority of patients screened are between the ages of 55 and 80, Have a smoking history of 30 pack years
	If no longer smoking, stopped smoking in the past 15 years, Persons who have undergone chest CT within 12 months should be excluded
	Screening should be discontinued once a person has not smoked for 15 years or develops a health problem that substantially
	limits life expectancy or the ability or willingness to have curative lung surgery.
Diagnostic Task	Detect abnormalities that may represent lung cancer and may require further diagnostic evaluation. Detect nodules and masses.
	For individuals with no known signs or symptoms of lung cancer that have appropriate risk factors, such as those recommended b
	professional societies and health care organizations.See the ACR LungCancer Screening Resources webpage for more informati
Scan mode	Helical
Position/Landmark	Head or feet first-Supine 1cm superior to shoulder
Topogram	AP mA50 kV120 /Lat mA 70 kV120
kVp/Reference mass	120kv Sure Exp 3D(off)
Rotation time/pitch	0.5\1.484
Detector Configuration	64x0.5
Table Speed/Increment	47.5
Dose reduction	avg set 70mA=≤3mGy
Allowed CTDI ranges*	0.25 mGy to 8 mGy
XR29 Dose Notification value	8 mGy

Helical Set

recon	body part	thickness spacing	recon algorithm	recon destination
1	chest	2mmx 2mm	standard	pacs
2	lung	1mmx1mm	lung	pacs
3	sag chest	2mmx2mm	standard	pacs
4	coronal chest	2mmx2mm	standard	pacs
5	axial mip lung	10mmx2mm	lung sharp 2	pacs

Scan Start/end location	lung apex
	lung base
DFOV	35cm/decrease for lung recons
IV contrast volume/type	na
Scan delay	na

Approximate Values for CTDIvol

Patient size	weight(kg)	weight(lbs)	CTDIvol(mGy)
SMALL	50-70	110-155	0.25-2.8
AVERAGE	70-90	155-200	0.5-4.3
LARGE	90-120	200-265	1.0-5.6

NOTE*

*The ACR Reference Dose for a "standard size patient" (by definition, is approximately 5' 7" and 155 lbs or 170 cm and 70 kg with a BMI of about 24) is a CTDIvol of less than 3 mGy.

*There is no AAPM recommended NEMA XR29 Dose Notification Value for lung screening scans. In general, lung screening exams should not have a CTDIvol greater than 7 mGy. Exams with CTDIvol values less than the minimum allowed range should not be

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Approved by Dr Ellermeier Dr Mollard

performed unless approved by a radiologist.

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