LOW DOSE CHEST Screening WITHOUT 16 Sensation

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 by				
	professional societies and health care organizations. See the ACR LungCancer Screening Resources webpage for more information.				
Scan mode	Helical				
Position/Landmark	Head -Supine Craniocaudal				
Topogram	AP 120 kv 30mA				
kVp/Reference mass	120kVp 35mas/Care Dose on				
Rotation time/pitch	0.5/pitch 1.2				
Detector Configuration	16x0.75				
Table Speed/Increment	14.4				
Dose reduction	CareDose 4D				
Allowed CTDI ranges*	0.25 mGy to 8 mGy				
XR29 Dose Notification valu	8 mGy				
Helical Set	body	thickness			recon
	recon part	spacing	kernel wi	ndow de	stination
	1 chest	2mmx 2mm	31medium smooth	mediastinum	pacs
	2 lung	1.5mmx 1.5mm	70very sharp	lung	pacs
	3 lung	1mmx.8mm	B20f smooth	lung	mpr
	4 soft tissue	1mmx.8mm	31medium smooth	mediastinum	mpr
	5 coronal chest	2mmx2mm	31medium smooth	n mediastinum	pacs
	6 sag chest	2mmx2mm	31medium smooth	n mediastinum	pacs
	7 axial MIP lung	10mmx2mm	B20f smooth	lung	pacs
Scan Start/end locat	i		lung apex		
			lung base		
DFOV			35cm		
	decrease appropriately				
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				
	*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				
	performed unless approved by a radiologist.				
	performed ameas approved by				