## LOW DOSE Screening CHEST WITHOUT 16 Emotion

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 mas				
	or 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				
	AP 110 kv 30mA				
Topogram					
kVp/Reference mass	110kVp 35mas/Care Dose on				
Rotation time/pitch	0.6/pitch 1				
Detector Configuration	16x0.6				
Table Speed/Increment	9.6				
Dose reduction	CareDose 4D				
Allowed CTDI ranges*	0.25 mGy to 8 mGy				
XR29 Dose Notification val					
Helical Set	body	thickness	omoy		recon
nencal Get			kernel win	dow de	estination
	recon part	spacing			sunation
	1 chest	2mmx 2mm	31medium smooth	mediastinum	pacs
	2 lung	1.5mmx 1.5mm	70very sharp	lung	pacs
	3 coronal chest	2mmx2mm	31medium smooth	mediastinum	pacs
	4 sag chest	2mmx2mm	31medium smooth	mediastinum	pacs
	5 axial MIP lung	10mmx2mm	B20f smooth	lung	pacs
Scan Start/end loca			lung apex		
	lung base				
DFOV			35cm		
	decrease appropriately				
	Approximate Values for CTDIvol				
	Patient size	weight(kg)	weight(lbs)	СТ	ſDlvol(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	e for a "standard size patient"	(by definition, is approximately	5' 7" and 155 lbs or 1	70 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				
			Divol values less than the minim		

performed unless approved by a radiologist.