## Low Dose Lung Screening 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							
Городгат	AP 120 kv 30mA							
(Vp/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							
KR29 Dose Notification va								
Helical Set		body	thickness				recon	
	recon	part	spacing k	kernel	win	dow d	estination	
	1 ches	st	2mmx 2mm	31mediu	m smooth	mediastinum	pacs	
	2 lung		1.5mmx 1.5mm	70very s	harp	lung	pacs	
	3 lung		1mmx.8mm	B20f sn	nooth	lung	mpr	
	4 soft t	issue	1mmx.8mm	31mediu	ım smooth	mediastinum	mpr	
	5 coror	nal chest	2mmx2mm	31medi	um smooth	mediastinum	n pacs	
	6 sag c	chest	2mmx2mm	31medi	um smooth	mediastinum	pacs	
Scan Start/end loca				lung ape				
				lung base				
DFOV	35cm							
	decrease appropriately							
V contrast volume/type	na							
Scan delay	na		Annasia	ato Voluce	for CTDI	J		
	Approximate Values for CTDIvol							
			weight(kg)	weight(lbs)		CTDIvol(mGy) 0.25-2.8		
			50-70 70-90	110-155 155-200		0.5-4.3		
			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.							