

CT Chest without 16 Emotion

Indications	Cough, SOB, restage cancer, abnormal cxr, F/U lung nodules					
Diagnostic Task	Detect nodules or masses and characterize their size and shape, abnormal fluid collections in chest					
Scan mode	Helical-inspiration					
Position/Landmark	Head first-Supine 1cm to shoulders-arms above head					
Topogram						
kVp/Reference mass	130kv 110mas/Care Dose ON 110kv if pt under 140lbs					
Rotation time/pitch	0.6/0.8					
Detector Configuration	16x1.2					
Table Speed/Increment	15.36					
Dose reduction	CareDose 4D					
Allowed CTDI ranges*	7mGy-50mGy					
XR29 Dose Notification value	50mGy					
Helical Set	recon	body part	thickness spacing	kernel	window	recon destination
	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
	6	thin chest	1.5mmx0.7mm	31medium	smooth	mediastinum pacs
Scan Start/end location	2cm superior to lung apices					
	through adrenal glands/inferior aspect of L-1					
DFOV	35cm/decrease for lung recons					
	decrease appropriately					
Approximate Values for CTDIvol						
Patient size	weight(kg)	weight(lbs)	CTDIvol(mGy)			
SMALL	50-70	110-155	4-10			
AVERAGE	70-90	155-200	8-16			
LARGE	90-120	200-265	14-22			
NOTE*	*The AAPM recommended NEMA XR29 Dose Notification Value for an adult torso is 50mGy. Dose Notification levels less than the AAPM recommended can be set. The maximum CTDI vol should match the dose notification value. Exams with CTDI vol values less than the minimum allowed range should not be performed unless approved by a radiologist.					

