

ROUTINE CHEST WITH 16 Sensation

Indications	Cough, SOB, restage cancer, abnormal cxr						
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	AP						
kVp/Reference mass	120kV 160mas/Care Dose ON 100kv if pt under 140lbs						
Rotation time/pitch	0.5/1						
Detector Configuration	16x0.75						
Table Speed/Increment	12						
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		thin chest	1mmx.8mm	31medium smooth	mediastinum	mpr and pacs
	4		thin lung	1mmx.8mm	B20f smooth	lung	mpr
Scan Start/end location	2cm superior to lung apices						
	through adrenal glands/inferior aspect of L-1						
DFOV	40cm						
	decrease appropriately/decrease for lung recons						
3D Technique Used	2x2coronal and sag chest reformats for recon 3						
	10x2 axial mip lung from recon 4						
IV contrast volume/type	75ml < 200lbs, 100ml 200-250lbs, 125ml>250lbs isovue 370 2.5-3cc/sec						
	Performed as directed by a supervising radiologist						
Scan delay	60 seconds						
	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.						

