

High Resolution Chest 16 Sensation

Indications	Cough, interstitial lung disease, emphysema, bronchiectasis, asbestosis, restrictive lung disease					
Diagnostic Task	Detect nodules or masses and characterize their size and shape, abnormal fluid collections in chest					
Scan mode	Helical/Axial					
Position/Landmark	Head first-Supine 1cm to shoulders/inspiration					
Topogram	PA 50mA 80kV					
kVp/Reference mass	helical120kv 180mas//axial 120kv/180mas					
Rotation time/pitch	helical 0.5/1.0 // axial full 0.5s					
Detector Configuration	helical 16x0.75 // axial 2x1.0					
Table Speed/Increment	helical 9.6 //axial cycle time 1.88					
Dose reduction	CareDose 4D					
Allowed CTDI ranges*	7mGy-50mGy					
XR29 Dose Notification value	50mGy					
Helical Set	body		thickness		recon	
Routine Chest	recon	part	spacing	kernel	window	destination
	1	chest	2mmx 2mm	31medium smooth	mediastinum	pac
	2	lung	1.5mmx 1.5mm	70very sharp	lung	pac
	3	thin chest	1mmx.8mm	31medium smooth	mediastinum	mpr/pac
	4	lung	1mmx.8mm	B20f smooth	lung	mpr
1ST axial set	body		thickness		recon	
supine expiration	recon	part	spacing	kernel	window	destination
	1	Bilat Lung high res	1mmx20mm	70very sharp	Lung	pac
2ND axial set	body		thickness		recon	
prone inspiration	recon	part	spacing	kernel	window	destination
	1	Bilat Lung high res	1mmx20mm	70very sharp	Lung	pac
Scan Start/end location			lung apex lung base			
DFOV	35cm on full chest/FOV limited to just lungs on lung views					
3D Technique Used	2x2 coronal and sag chest reformats for recon 3, from helical set					
	10mmx2mm axial mip lung from recon 5					
IV contrast volume/type	none					
Scan delay	none					
	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.					

