

# High Resolution Chest 16 Emotion

Indications	Cough, interstitial lung disease, emphysema, bronchiectasis, asbestos, 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	AP 50mA 120kV130					
kVp/Reference mass	helical120kv 120mas/axial 130kv/140mas					
Rotation time/pitch	helical 0.5/0.8 axial full 0.5s					
Detector Configuration	helical 16x1.2/ axial 4x0.6					
Table Speed/Increment	helical 19.2 /axial cycle time 3.0s					
Dose reduction	CareDose 4D					
Allowed CTDI ranges*	7mGy-50mGy					
XR29 Dose Notification value	50mGy					
<b>Helical Set</b>	body thickness recon					
<b>Routine Chest</b>	recon	part	spacing	kernel	window	destination
1	chest	2mmx 2mm	31medium smooth	mediastinum	pacs	
2	lung	1.5mmx 1.5mm	70very sharp	lung	pacs	
3	thin chest	1.5mmx.8mm	31medium smooth	mediastinum	super D	
4	coronal chest	2mmx2mm	31medium smooth	mediastinum	pacs	
5	sag chest	2mmx2mm	31medium smooth	mediastinum	pacs	
6	axial MIP lung	10mmx2mm	b20f smooth	lung	pacs	
<b>1ST axial set</b>	body thickness recon					
<b>supine experation</b>	recon	part	spacing	kernel	window	destination
1	Bilat Lung high res	1.2mmx20mm	70very sharp	Lung	pacs	
<b>2ND axial set</b>	body thickness recon					
<b>prone inspiration</b>	recon	part	spacing	kernel	window	destination
1	Bilat Lung high res	1.2mmx20mm	70very sharp	Lung	pacs	
<b>Scan Start/end location</b>	lung apices lung base					
<b>DFOV</b>	35cm on full chest/FOV limited to just lungs on lung views 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.					

