

High Resolution Chest 16 GE

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			
Position/Landmark	Head first-Supine Sternal Notch S60-I300			
Topogram	AP 120kV 10mA Lat 120kV 20ma			
kVp/Reference mass	helical 120kV Auto mA (100-440) //axial 120kV 200mA			
Rotation time/pitch	helical 0.5/1.375:1//axial full 0.7			
Detector Configuration	helical 16x1.25//axial 2x1.25			
Table Speed/Increment	helical 13.75//axial cycle time 1i per rotation			
Dose reduction	Noise Index 24.68			
Allowed CTDI ranges*	7mGy-50mGy			
XR29 Dose Notification value	50mGy			
Helical Set	recon	body part	thickness spacing	recon algorithm destination
	1	chest	1.25mmx 1.25mm	standard pacs
	2	lung	1.25mmx 1.25mm	lung pacs
	3	sag chest	2mmx2mm	standard pacs
	4	coronal chest	2mmx2mm	standard pacs
	5	axial mip lung	10mmx2mm	standard pacs
	6	Super D	1.25mmx0.625mm	standard pacs
1ST axial set supine expiration	recon	body part	thickness spacing	recon algorithm destination
	1	Bilat Lung high res	1.25mmx20mm	Lung pacs
2ND axial set prone inspiration	recon	body part	thickness spacing	recon algorithm destination
	1	Bilat Lung high res	1.25mmx20mm	lung pacs
Scan Start/end location	lung apices			
	lung base			
DFOV	35cm on full chest/FOV limited to just lungs on lung views			
IV contrast volume/type	na			
Scan delay	na			
	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.			

