

High Resolution Chest 64 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-I400				
Topogram	AP 120kV 20mA Lat 120kV 40mA				
kVp/Reference mass	helical 120kv Auto mA (200-440)				
Rotation time/pitch	helical 0.5/1.375:1//axial 1.25 1i				
Detector Configuration	helical 64x0.625//axial				
Table Speed/Increment	helical 55//axial cycle time 1.375:1				
Dose reduction	Noise Index 21.45				
Allowed CTDI ranges*	7mGy-50mGy				
XR29 Dose Notification value	50mGy				
Helical Set	recon	body part	thickness spacing	algorithm	recon destination
	1	chest	1.25mmx 1.25mm	standard	pac
	2	lung	1.25mmx 1.25mm	lung	pac
	3	sag chest	2mmx2mm	standard	pac
	4	coronal chest	2mmx2mm	standard	pac
	5	axial mip lung	10mmx2mm	standard	pac
	6	Super D	1.25mmx1.0mm	standard	pac
1ST axial set supine expiration	recon	body part	thickness spacing	algorithm	recon destination
	1	Bilat Lung high res	1mmx20mm	Lung	pac
2ND axial set prone inspiration	recon	body part	thickness spacing	algorithm	recon destination
	1	Bilat Lung high res	1mmx20mm	lung	pac
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.

