

ROUTINE NECK/CHEST 64 GE

Indications	For abdomen pain, lymphoma, restage ca, weight loss, fatigue,		
Diagnostic Task	Detect masses, free fluid, abscess, mets		
Scan mode	Helical		
Position/Landmark	Head first-Supine Xiphoid S200-I620		
Topogram	AP 120kV 20mA Lat 120kV 40mA		
kVp/Reference mass	120kv Auto mA neck(200-500) Chest (300-700)		
Rotation time/pitch	NECK 0.5/0.516:1 Chest 0.5/0.984:1		
Detector Configuration	NECK 64x0.625 Chest 64x0.625		
Table Speed/Increment	NECK 20.62 Chest 39.37		
Dose reduction	NECK 12.60 Chest Noise Index 15.86		
Allowed CTDI ranges*	7mGy-50mGy		
XR29 Dose Notification value	50mGy		
Helical Set 1	recon	body part	thickness spacing
Chest			algorithm
60sec			recon destination
arms up	1 chest		2.5mmx 2.5mm standard pacs
	2 lung		1.25mmx1.25mm lung pacs
	3 sag chest		2mmx2mm standard pacs
	4 coronal chest		2mmx2mm standard pacs
	5 axial MIP lung		10mmx2mm standard pacs
Helical Set 2	recon	body part	thickness spacing
Neck			algorithm
30 sec			recon destination
arms down	1 neck		2mmx 2mm standard pacs
	2 coronal neck		2mmx2mm standard pacs
	3 sag neck		2mmx2mm standard pacs
Scan start	Chest-1cm superior to shoulder/		neck-top of orbital roof
End location	L1		/ neck base
FOV	40cm		20cm
	decrease appropriately		
IV contrast-split bolus	Chest <200lbs 75ml, 200-250lbs 100ml, >250lbs 125ml isovue 370		
	neck 50ml isovue 370		
	Performed as directed by a supervising radiologist		
Delay	chest 60-neck 30sec,		
	IV CONTRAST, MARK AREA OF PAIN WITH BB		
	Approximate Values for CTDIvol		
	Patient size	weight(kg)	weight(lbs) CTDIvol(mGy)
	SMALL	50-70	110-155 10-17
	AVERAGE	70-90	155-200 15-25
	LARGE	90-120	200-265 22-35
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.		

