

ROUTINE NECK/CHEST 64 Sensation

Indications	For abdomen pain, lymphoma, restage ca, weight loss, fatigue cough				
Diagnostic Task	Detect masses, free fluid, abscess, mets				
Scan mode	Helical-Inspiration				
Position/Landmark	2cm superior to xiphoid/Inspiration				
Topogram	AP 60mA 120kV PA 60mA 120kv				
kVp/Reference mass	Neck 120kv 260mA C/A/P 120kv 200mA-100kv if pt under 140lbs				
Rotation time/pitch	NECK 1.0/0.9 Chest 0.5/0.8				
Detector Configuration	NECK 24x1.2 Chest 64x0.6				
Table Speed/Increment	NECK 25.92 Chest 23.04				
Dose reduction	CareDose 4D				
Allowed CTDI ranges*	7mGy-50mGy				
XR29 Dose Notification value	50mGy				
Helical Set#1					
Chest 60sec arms up	recon	body part	thickness spacing	kernel	recon window destination
	1	chest	2mmx2mm	31medium smooth	Mediastinum pacs
	2	Lung	1.5mmx1.5mm	70sharp	lung pacs
	3	sag chest	2mmx2mm	31medium smooth	mediastinum pacs
	4	coronal chest	2mmx2mm	31medium smooth	mediastinum pacs
	5	lung	10mmx2mm	B20f smooth	lung pacs
Helical Set#2					
Neck 30 SEC arms down	recon	body part	thickness spacing	kernel	recon window destination
	1	neck	2mmx 2mm	31medium smooth	mediastinum pacs
	2	coronal neck	2mmx2mm	31medium smooth	mediastinum pacs
	3	sag neck	2mmx2mm	31medium smooth	mediastinum 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.				

