

ROUTINE NECK/CHEST 16 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 sternal notch S225-l675			
Topogram	AP 120kV 20mA Lat 120kV 30mA			
kVp/Reference mass	120kv Auto mA (100-440)			
Rotation time/pitch	Neck 0.7/1.375:1 Chest 0.8/1.375:1			
Detector Configuration	Neck16x0.625 Chest 16x1.25			
Table Speed/Increment	Neck 13.75 Chest 27.50			
Dose reduction	Noise Index neck 9.10 Chest 16.65			
Allowed CTDI ranges*	7mGy-50mGy			
XR29 Dose Notification value	50mGy			
Helical Set 1	recon	body part	thickness spacing	recon destination
chest				
60sec	1	Chest	2.5mmx 2.5mm	standard pacs
arms up	2	lung	1.25mmx1.25mm	lung pacs
	3	sag chest	2mmx2mm	standard pacs
	4	coronal chest	2mmx2mm	standard pacs
	5	axial MIP lung	10mmx2mm	lung pacs
Helical Set 2	recon	body part	thickness spacing	recon destination
Neck				
30second delay	1	neck	2.5mmx 2.5mm	standard pacs
arms down	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.			

