

# ROUTINE NECK/CHEST 16 Emotion

Indications	For abdomen pain, lymphoma, restage ca, weight loss, fatigue,					
Diagnostic Task	Detect masses, free fluid, abscess, mets					
Scan mode	Helical					
Position/Landmark	2cm superior to xiphoid/Inspiration					
Topogram	AP 25mA 130kV Lat 25mA 130kV					
kVp/Reference mass	130kv 120mas-110kv if pt over 140lbs					
Rotation time/pitch	neck 0.8/0.75 Chest 0.6/0.8					
Detector Configuration	neck 16x1.2 Chest 16x1.2					
Table Speed/Increment	neck 14.4 Chest 15.36					
Dose reduction	CareDose 4D					
Allowed CTDI ranges*	7mGy-50mGy					
XR29 Dose Notification value	50mGy					
Helical Set#1	body		thickness		recon	
Chest	recon	part	spacing	kernel	window	destination
60sec	1	chest	2mmx2mm	31medium	smooth	Mediastinum
arms up	2	lung	1.5mmx1.5mm	70sharp		lung
	3	sag chest	2mmx2mm	31medium	smooth	mediastinum
	4	coronal chest	2mmx2mm	31medium	smooth	mediastinum
	5	axial mip lung	10mmx2mm	b20f	smooth	lung
						destination
						pac
						pac
						pac
						pac
						pac
Helical Set#2	body		thickness		recon	
30sec	recon	part	spacing	kernel	window	destination
arms down	1	neck	2mmx 2mm	31medium	smooth	mediastinum
	2	coronal neck	2mmx2mm	31medium	smooth	mediastinum
	3	sag neck	2mmx2mm	31medium	smooth	mediastinum
						destination
						pac
						pac
						pac
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.					

