

ROUTINE NECK CHEST 64 Toshiba

Indications	For abdomen pain, lymphoma, restage ca, weight loss, fatigue,			
Diagnostic Task	Detect masses, free fluid, abscess, mets			
Scan mode	Helical			
Position/Landmark	Head or feet first-Supine			
Topogram	AP mA50 kV120 /Lat mA 70 kV120			
kVp/Reference mass	120kV average pt 135kV XL pt- Sure Exp 3D(120-550)			
Rotation time/pitch	NECK 0.5/1.484 Chest 0.5\1.484			
Detector Configuration	NECK 64X0.5 Chest 64x0.5			
Table Speed/Increment	NECK 47.5 Chest 47.5			
Dose reduction	Sure Exp 3D			
Allowed CTDI ranges*	7mGy-50mGy			
XR29 Dose Notification value	50mGy			
Helical Set #1	body thickness			recon
Chest	recon	part	spacing	algorithm
60sec arms up	1	chest	2mmx 2mm	standard
	2	lung	1mmx1mm	lung
	5	sag chest	2mmx2mm	standard
	6	coronal chest	2mmx2mm	standard
	7	axial MIP lung	10x2	lung sharp 2
				recon destination
				pac
				pac
				pac
				pac
				pac
Helical Set #2	body thickness			recon
Neck-arms down	recon	part	spacing	algorithm
30second delay	1	neck	2mmx 2mm	standard
	2	coronal neck	2mmx2mm	standard
	3	sag neck	2mmx2mm	standard
				recon 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.

