

Neck 4D Parathyroid 64 Toshiba

Indications	Patients with biochemically confirmed hyperparathyroidism who had parathyroidectomy				
Diagnostic Task	parathyroid localization				
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 neck non contrast	recon	body part	thickness spacing	recon destination	
	1 neck		2mmx 2mm	standard pacs	
arms down-maximally pulled down during scan					
Helical Set #2 Neck-with 50second delay	recon	body part	thickness spacing	recon destination	
	1 neck		2mmx 2mm	standard pacs	
	2 coronal neck		2mmx2mm	standard pacs	
	3 sag neck		2mmx2mm	standard pacs	
Helical Set #3 Chest arms up	recon	body part	thickness spacing	recon destination	
	1 chest		2mmx 2mm	standard pacs	
	2 lung		1mmx1mm	lung pacs	
	5 sag chest		2mmx2mm	standard pacs	
	6 coronal chest		2mmx2mm	standard pacs	
Scan Start/end location	neck		/	chest	
DFOV	upper palette		/	1cm superior to apices	
	thru carina		/	Mid Heart	
	18cm		/	18cm	
	decrease appropriately				
IV contrast volume/type	125ml Isovue 370@ 1.5ml/sec contrast should flow thru the entire scan				
Scan delay	50 seconds				
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.

