

CTA Chest 64 Toshiba

Indications	trauma, acute aortic syndrome, suspected aneurysm/dissection				
Diagnostic Task	Detect aneurysms, aortic dissections and				
Scan mode	Helical				
Position/Landmark	Head or feet first-Supine 1cm superior to shoulder				
Topogram	AP mA50 kV120 /Lat mA 70 kV120				
kVp/Reference mass	135kv Sure Exp 3D(80-550)				
Rotation time/pitch	0.5\0.828				
Detector Configuration	64x0.5				
Table Speed/Increment	26.5				
Dose reduction	Sure Exp 3D				
Allowed CTDI ranges*	7mGy-50mGy				
XR29 Dose Notification value	50mGy				
Helical Set #1 non contrast	recon	body part	thickness spacing	algorithm	recon destination
	1	chest	2mmx 2mm	standard	pac
	if patient under 40 ask about non contrast images				
Helical Set #2	recon	body part	thickness spacing	algorithm	recon destination
	1	chest	2mmx 2mm	standard	pac/TR
	2	lung	1mmx1mm	lung	pac
	3	sag chest	2mmx2mm	standard	pac
	4	coronal chest	2mmx2mm	standard	pac
	5	axial mip lung	10mmx2mm	lung sharp 2	pac
	6	MIP coronal aorta	5mmx2mm	standard	pac
	7	MIP sag aorta	5mmx2mm	standard	pac
	8	Super D*	1mmx0.8mm	standard	pac/TR
When super D or stereo chest					
Helical Set #3 60sec	recon	body part	thickness spacing	algorithm	recon destination
	1	chest	2mmx 2mm	standard	pac
	If stent/graft, s/p TEVAR, venous evaluation				
Scan Start/end location	2cm superior to lung apices				
	Diaphragm(include entire stent on delay)				
DFOV	40cm				
IV contrast volume/type	<200lbs 80ml isovue 370 >200lbs 100ml isovue 370 @3-4ml/sec				
	Performed as directed by the supervising radiologist				
Scan delay	Surestart				
	bolus tracking in the descending aorta(level just inferior to carina)				
	Comments: Being able to locate the descending aorta is important. The monitoring phase will not trigger properly and the scan will not start correctly if the roi is not placed on the correct anatomy.				
	Approximate values for CTDIvol				
	Patient size	weight(kg)	weight(lbs)	CTDIvol(mGy)	
	SMALL	50-70	110-155	4-10	
	AVERAGE	70-90	155-200	6-10	
	LARGE	90-120	200-265	14-22	
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.				

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Approved by Dr Verdini

