CTA Chest/abd/pelvis 64Sensation

Indications	trauma, acute aortic syndror	ne, suspected aneurysr				
Diagnostic Task		trauma, acute aortic syndrome, suspected aneurysm/dissection Detect aneurysms, aortic dissections				
Scan mode	Helical					
Position/Landmark	Head first-Supine 1cm to shoulders/inspiration					
Topogram	PA 40mA 120kV					
kVp/Reference mass	120kv 240mas/Care Dose ON/100kv if pt under 140lbs					
Rotation time/pitch	0.5/pitch 0.7					
Detector Configuration	64x0.6					
Table Speed/Increment	26.88					
Dose reduction	CareDose 4D					
Allowed CTDI ranges*	7mGy-50mGy					
XR29 Dose Notification value	50mGy					
Helical Set	body	thickness			recon	
non contrast	recon part	spacing	kernel	window	destination	
	1 chest	1.5mmx1.5mm	31medium smo	oth mediastinum	pacs	
Helical Set	body	thickness			recon	
arterial	recon part	spacing	kernel	window	destination	
	1 chest cta	2mmx 2mm	31medium smooth	mediastinum	pacs	
	2 lung	1mmx 1mm	70 very sharp	lung	pacs	
	3 coronal cap		31medium smooth	mediastinum	pacs	
	4 sag cap		31medium smooth	mediastinum	pacs	
	5 thin c/a/p	.6mmx.6mm	31medium smooth	mediastinum	pacs/TR	
	6 MIP coronal aorta		31medium smooth	mediastinum	•	
			31medium smooth		pacs	
	7 MIP sag aorta	5mmx2mm			pacs	
	8 axial MIP	10mmx2mm	70 very sharp	lung	pacs	
Scan start/End location	NC 2cm superior to lung apices// arterial 2cm superior to lung apices					
	NC through hepatic dome// lesser trochanters					
DFOV	40cm					
	decrease appropriately					
IV contrast volume/type	100ml isovue 370 3-4cc/sec					
	Performed as directed by the supervising radiologist					
Scan delay	Bolus Tracking at descending aorta(level just inferior to carina)					
	Trigger is +100HU					
	Comments: Being able to locate the descending aorta is important. The montoring					
	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		8-16	
	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					
	APM 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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