CHEST CTA 64Sensation

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Indications	trauma, a	acute aortic syndrome,	, suspected aneurysm	dissection				
Diagnostic Task	Detect aneurysms, aortic dissections and							
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 smoo	th mediastinum	pacs		
	if patient under 40 ask about non contrast images							
Helical Set		body	thickness			recon		
arterial	recon	part	spacing	kernel	window	destination		
	1	chest cta	2mmx 2mm	31medium smooth	mediastinum	pacs/TR		
	2	lung	1.5mmx 1.5m	m 70 very sharp	lung	pacs		
	3	coronal chest	2mmx2mm	31medium smooth	mediastinum	pacs		
	4	sag chest	2mmx2mm	31medium smooth	mediastinum	pacs		
	5	thin chest	.6mmx.6mm	31medium smooth	mediastinum	pacs/TR		
	6 MIP	coronal aorta	5mmx2mm	31medium smooth	mediastinum	pacs		
	7 MIP	sag aorta	5mmx2mm	31medium smooth	mediastinum	pacs		
	8	axial MIP	10mmx2mm	70 very sharp	lung	pacs		
Helical Set		body	thickness			recon		
60sec	recon	part	spacing	kernel	window	destination		
	1	chest	1.5mmx1.5mm	31medium smoo	th mediastinum	pacs		
	If stent/graft, s/p TEVAR, venous evaluation							
Scan start/End location	2cm superior to lung apices							
	Diaphragm							
DFOV	40cm							
	decrease appropriately							
IV contrast volume/type	80ml <175lbs 100ml 175-350lbs 120ml >350lbs Isovue 370, 40ml ns							
	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 siz	e v	weight(kg)	weight(lbs)	•	CTDIvol(mGy)		
	SMALL AVERAGE		50-70 70-90	110-155 155-200		4-10 8-16		
NOTE	LARGE		90-120	200-265	D. M. 65	14-22		
NOTE*				Value for an adult torso is 50mGy				
	TOVE IN LECO.	minoriueu can be ser. The f	AAPM recommended can be set. The maximum CTDI vol should match the dose notification value. Exams with CTDI vol values less than the minimum					

*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.