CTA CHEST/Abd/Pelvis 16Sensation

Indications	trauma, a	cute aortic syndron	ne, suspected aneurys	m/dissection		
Diagnostic Task	Detect aneurysms, aortic dissections					
Scan mode	Helical					
Position/Landmark	Head first-Supine 1cm to shoulders/inspiration					
Topogram	AP 50mA 120kV					
kVp/Reference mass	120kv 200mas/Care Dose ON/100kv if pt under 140lbs					
Rotation time/pitch	0.5/pitch 1.0					
Detector Configuration	16x0.75					
Table Speed/Increment	12					
Dose reduction	CareDose 4D					
Allowed CTDI ranges*	7mGy-50mGy					
XR29 Dose Notification value	50mGy					
Helical Set 1		body	thickness			recon
NON CONTRAST	recon	part	spacing	kernel	window	destination
	1	chest	2mmx 2mm 3	31medium smooth	mediastinum	pacs
	if patient under 40 ask about non contrast images					
Helical Set 2		body	thickness			recon
ARTERIAL	recon	part	spacing	kernel	window	destination
	1	chest cta	2mmx 2mm	31medium smooth	mediastinum	pacs
	2	lung		70 very sharp	lung	pacs
	3	thin c/a/p	1mmx.8mm	31medium smooth	mediastinum	for mpr/TR
	4	lung	1mmx0.8mm		lung	mpr
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					
3D Technique Used	2x2 coronal and sag coronal chest/abd/pevlis reformats from recon 3					
	5x2 oblique coronal and oblique sag aorta MIP from recon 3(optional 3d aorta)					
	10x2 axial mip lung from recon 4					
IV contrast volume/type			3-4cc/sec			
Scan delay	100ml isovue 370 3-4cc/sec Bolus Tracking at descending aorta(level just inferior to carina)					
Scall delay	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					
	Patient size	9	weight(kg)	weight(lbs)		CTDIvol(mGy)
	SMALL		50-70	110-155		4-10
	AVERAGE LARGE		70-90 90-120	155-200 200-265		8-16 14-22
NOTE*		1 recommended NEM		Value for an adult torso is 50mG	y. Dose Notification levels	

allowed range should not be performed unless approved by a radiologist.