CTA CHEST 16Sensation

t		CHEST	iosensauc				
Indications	trauma, acu	ite aortic syndror	ne, suspected aneurysm	/dissection			
Diagnostic Task	Detect aneurysms, aortic dissections and						
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	1.5mmx 1.5mm	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/TR	
	2	lung	1.5mmx 1.5m	m 70 very sharp	lung	pacs	
	3	thin chest	1mmx.8mm	31medium smooth	mediastinum	for mpr/TR	
	4	lung	1mmx0.8mm	70 very sharp	lung	mpr	
Helical Set 3		body	thickness			recon	
60sec	recon	part	spacing	kernel	window	destination	
	1	chest	1.5mmx 1.5mm	31medium smooth	mediastinum	pacs	
	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						
	decrease appropriately						
3D Technique Used	2x2 coronal and sag coronal chest 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	<200lbs 80ml isovue 370 >200lbs 100ml isovue 370 @3-4ml/sec						
Scan delay	Bolus Tracking at descending aorta(level just inferior to carina)						
	<u> </u>	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					
	phase w						
		on the correct anatomy					
	Patient size SMALL		weight(kg) 50-70	weight(lbs) 110-155		CTDIvol(mGy) 4-10	
NV NI L-7	AVERAGE LARGE	~~~~	70-90 90-120	155-200 200-265		8-16 14-22	
NOTE*			IA XR29 Dose Notification v ne maximum נוטו voi snouid r	natch the dose notification value. Ex	Dose Notification levels I ams with CTDI vol values les	ess than the s than the minimum	

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