## CTA Chest 16 GE

	01710				
Indications	trauma, acute aortic syndrome, suspected aneurysm/dissection				
Diagnostic Task	Detect aneurysms, aortic dissections and				
Scan mode	Helical				
Position/Landmark	Head first-Supine Sternal Notch S25-I350				
Topogram	AP 120kV 10mA Lat 120kV 30mA				
kVp/Reference mass	120kv Auto mA (100-440)				
Rotation time/pitch	0.5/1.375:1				
Detector Configuration	16x0.625				
Table Speed/Increment	27.5				
Dose reduction	Noise Index 21.45				
Allowed CTDI ranges*	7mGy-50mGy				
XR29 Dose Notification value	50mGy				
Helical Set 1		body	thickness	,	recon
non con	recon	part	spacing	algorithm	destination
	1 chest	•	1.25mmx 1.25mm	standard	pacs
	if patient under 40 ask about non contrast images				
Helical Set 2		body	thickness		recon
	recon	part	spacing	algorithm	destination
	1 chest		1.25mmx 1.25mm	standard	pacs/TR
	2 lung		1.25mmx 1.25mm	lung	pacs
	3 sag ch	oct	2mmx2mm	standard	pacs
	4 corona		2mmx2mm	standard	•
			10mmx2mm		pacs
		ip lung		standard	pacs
When super D or stereo chest	6 thin ch		1.25mmx1mm	standard	pacs/TR
		onal aorta	5mmx2mm	standard	pacs
	8 MIP sag		5mmx2mm	standard	pacs
Helical Set 3		body	thickness		recon
60sec	recon	part	spacing	algorithm	destination
	1 chest		1.25mmx 1.25mm	standard	pacs
	If stent/graft, s/p TEVAR, venous evaluation				
Scan Start/end location	2cm superior to lung apices				
	Diaphragm				
DFOV	40cm/decrease for lung recons				
IV contrast volume/type	80ml <175lbs 100ml 175-350lbs 120ml >350lbs Isovue 370, 40ml ns				
	Performed as directed by a supervising radiologist				
Scan delay	bolus tracking in the descending aorta(level just inferior to carina)				
Initiate scan manually-enhancen					nold of 80HU
	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	W	veight(kg)	weight(lbs)	CTDIvol(mGy)
	SMALL AVERAGE		50-70 70-90	110-155 155-200	<u>4-10</u> 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 level AAPM recommended can be set. The maximum CTDI vol should match the dose notification value. Exams with CTDI vol values I					
	allowed range should not be performed unless approved by a radiologist.				

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