

# CTA Chest/abd/pelvis 16 GE

Indications	trauma, acute aortic syndrome, suspected aneurysm/dissection				
Diagnostic Task	Detect aneurysms, aortic dissections				
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	recon	body part	thickness spacing	algorithm	recon destination
	1	chest	1.25mmx 1.25mm	standard	pac
Helical Set	recon	body part	thickness spacing	algorithm	recon destination
	1	CAP	1.25mmx 1.25mm	standard	pac
	2	lung	1.25mmx 1.25mm	lung	pac
	3	sag chest	2mmx2mm	standard	pac
	4	coronal chest	2mmx2mm	standard	pac
	5	sag ap	2mmx2mm	standard	pac
	6	coronal ap	2mmx2mm	standard	pac
	7	axial mip lung	10mmx2mm	standard	pac
	8	thin cap	1.25mmx1mm	standard	pac/tr
	9	MIP coronal chest	5mmx2mm	standard	pac
	10	MIP sag chest	5mmx2mm	standard	pac
	11	MIP coronal a/p	5mmx2mm	standard	pac
	12	MIP sag a/p	5mmx2mm	standard	pac
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 for lung recons				
IV contrast volume/type	100ml isovue 370 3-4cc/sec				
	Performed as directed by a supervising radiologist				
Scan delay	bolus tracking in the descending aorta(level just inferior to carina)				
	Initiate scan manually-enhancement threshold 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	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 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.				

