

CTA Chest/abd/pelvis 64 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 S60-I550				
Topogram	AP 120kV 20mA Lat 120kV 40mA				
kVp/Reference mass	120kv Auto mA (200-440)				
Rotation time/pitch	0.5/1.375:1				
Detector Configuration	64x0.625				
Table Speed/Increment	55				
Dose reduction	Noise Index 15.86				
Allowed CTDI ranges*	7mGy-50mGy				
XR29 Dose Notification value	50mGy				
Helical Set	recon	body part	thickness spacing	recon algorithm destination	
	1	chest	1.25mmx 1.25mm	standard	pac
Helical Set	recon	body part	thickness spacing	recon algorithm destination	
	1	chest	1.25mmx 1.25mm	standard	pac
	2	lung	1.25mmx 1.25mm	lung	pac
	3	sag cap	2mmx2mm	standard	pac
	4	coronal cap	2mmx2mm	standard	pac
	5	axial mip lung	10mmx2mm	standard	pac
	6	thin cap	1.25mmx1.0mm	standard	pac/TR
	7	MIP coronal aorta	5mmx2mm	standard	pac
	8	MIP sag aorta	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				
IV contrast volume/type	100ml isovue 370 3-4cc/sec				
Scan delay	Performed as directed by the supervising radiologist				
	bolus tracking in ascending aorta(level just inferior to carina)				
Scan delay	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.				

