

# CTA Abd/Pelvis 16 GE

<b>Indications</b>	trauma, acute aortic syndrome, suspected aneurysm/dissection		
<b>Diagnostic Task</b>	Detect aneurysms, aortic dissections and		
<b>Scan mode</b>	Helical		
<b>Position/Landmark</b>	Head first-Supine Sternal Notch S25-I600		
<b>Topogram</b>	AP 120kV 10mA Lat 120kV 30mA		
<b>kVp/Reference mass</b>	120kv Auto mA (100-440)		
<b>Rotation time/pitch</b>	0.7/1.375:1		
<b>Detector Configuration</b>	16x1.25		
<b>Table Speed/Increment</b>	27.5		
<b>Dose reduction</b>	Noise Index 21.64		
<b>Allowed CTDI ranges*</b>	7mGy-50mGy		
<b>XR29 Dose Notification value</b>	50mGy		
<b>Helical Set non con</b>	recon	body part	thickness spacing
			algorithm
			recon destination
	1	Abd/Pelvis	1.25mmx 1.25mm standard pacs
	if patient under 40 ask about non contrast images		
<b>Helical Set arterial</b>	recon	body part	thickness spacing
			algorithm
			recon destination
	1	abd/pel	1.25mmx 1.25mm standard pacs
	2	sag abd/pel	2mmx2mm standard pacs
	3	coronal abd/pel	2mmx2mm standard pacs
	4	thin abd/pel	1.25mmx0.625mm standard pacs/TR
	5	MIP coronal aorta	5mmx2mm standard pacs
	6	MIP sag aorta	5mmx2mm standard pacs
<b>Scan Start/end location</b>	Hepatic dome Symphysis pubis		
<b>DFOV</b>	40cm/decrease for lung recons		
<b>IV contrast volume/type</b>	100ml isovue 370 3-4cc/sec		
	Performed as directed by a supervising radiologist		
<b>Scan delay</b>	bolus tracking in aorta T12 level		
	Initiate scan manually-enhancement threshold of 80HU		
	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
<b>NOTE*</b>	*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.		

