

# CTA Abd/Pelvis 16 Emotion

<b>Indications</b>	trauma, acute aortic syndrome, suspected aneurysm/dissection												
<b>Diagnostic Task</b>	Detect aneurysms, aortic dissections												
<b>Scan mode</b>	Helical												
<b>Position/Landmark</b>	Head first-Supine 1cm to shoulders/inspiration												
<b>Topogram</b>	AP 25mA 110kV												
<b>kVp/Reference mass</b>	120kv ?mas/Care Dose ON/100kv if pt under 140lbs												
<b>Rotation time/pitch</b>	0.6/pitch 0.85												
<b>Detector Configuration</b>	16x1.2												
<b>Table Speed/Increment</b>	16.32												
<b>Dose reduction</b>	CareDose 4D												
<b>Allowed CTDI ranges*</b>	7mGy-50mGy												
<b>XR29 Dose Notification value</b>	50mGy												
<b>Helical Set 1 non contrast</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 20%;">body</td> <td style="width: 20%;">thickness</td> <td style="width: 20%;"></td> <td style="width: 20%;">recon</td> <td style="width: 10%;"></td> </tr> <tr> <td>recon</td> <td>part</td> <td>spacing</td> <td>kernel</td> <td>window</td> <td>destination</td> </tr> </table>		body	thickness		recon		recon	part	spacing	kernel	window	destination
		body	thickness		recon								
	recon	part	spacing	kernel	window	destination							
1	abd/pelvis	1.5mmx1.5mm	31medium	smooth	mediastinum	pacs							
if patient under 40 ask about non contrast images													
<b>Helical Set 2 arterial</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 20%;">body</td> <td style="width: 20%;">thickness</td> <td style="width: 20%;"></td> <td style="width: 20%;">recon</td> <td style="width: 10%;"></td> </tr> <tr> <td>recon</td> <td>part</td> <td>spacing</td> <td>kernel</td> <td>window</td> <td>destination</td> </tr> </table>		body	thickness		recon		recon	part	spacing	kernel	window	destination
		body	thickness		recon								
	recon	part	spacing	kernel	window	destination							
	1	abd/pelvis cta	2mmx 2mm	31medium	smooth	mediastinum	pacs						
	2	coronal abd/pel	2mmx2mm	31medium	smooth	mediastinum	pacs						
	3	sag abd/pel	2mmx2mm	31medium	smooth	mediastinum	pacs						
	4	thin abd/pel	1.5mmx.7mm	31medium	smooth	mediastinum	pacs/TR						
5	MIP coronal aorta	5mmx2mm	31medium	smooth	mediastinum	pacs							
6	MIP sag aorta	5mmx2mm	31medium	smooth	mediastinum	pacs							
<b>Scan start/End location</b>	Hepatic dome Symphysis pubis 40cm decrease appropriately												
<b>DFOV</b>													
<b>IV contrast volume/type</b>	100ml isovue 370 3-4cc/sec												
<b>Scan delay</b>	Bolus Tracking in aorta T-12 level Trigger is +100HU												

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.

