

# CTA Abd/pelvis +Run off 64Sensation

<b>Indications</b>	trauma, acute aortic syndrome, claudication, peripheral artery disease					
<b>Diagnostic Task</b>	Detect aneurysms, aortic dissections, stenosis					
<b>Scan mode</b>	Helical					
<b>Position/Landmark</b>	Head or feet first-Supine inspiration					
<b>Topogram</b>	PA 40mA 120kV					
<b>kVp/Reference mass</b>	120kv 240mas/Care Dose ON/100kv if pt under 140lbs					
<b>Rotation time/pitch</b>	0.5/pitch 0.7					
<b>Detector Configuration</b>	64x0.6					
<b>Table Speed/Increment</b>	26.88					
<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 ask if pt under 40</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	abd/pelvis-feet	2mmx 2mm	31medium smooth	mediastinum	pacs
<b>Helical Set #2 arterial</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	abd/pelvis-run off cta	2mmx 2mm	31medium smooth	mediastinum	pacs/TR
	2	coronal abd/pel	2mmx2mm	31medium smooth	mediastinum	pacs
	3	sag abd/pel	2mmx2mm	31medium smooth	mediastinum	pacs
	4	thin abd/pel+run off	.6mmx.6mm	31medium smooth	mediastinum	pacs/TR
	7	coronal legs	2mmx2mm	31medium smooth	mediastinum	pacs
	8	sag legs	2mmx2mm	31medium smooth	mediastinum	pacs
	9	MIP coronal full FOV	5mmx2mm	31medium smooth	mediastinum	pacs
<b>Helical Set #3 Immediate delay Knees-feet</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	lower leg	.6mmx .6mm	31medium smooth	mediastinum	pacs
<b>DFOV</b>	Hepatic dome bottom of feet 40cm decrease appropriately					
<b>IV contrast volume/type</b>	100ml<250lbs 120ml>250lbs isovue 370					
	Performed as directed by the supervising radiologist					
<b>Scan delay</b>	Bolus Tracking in aorta at T12 Trigger is +100HU					
	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.					

