CTA Abd/Pelvis 64Sensation

Indications	trauma, acute aortic syndrome, suspected aneurysm/dissection
Diagnostic Task	Detect aneurysms, aortic dissections
Scan mode	Helical
Position/Landmark	Head or feet-Supine inspiration
Topogram	PA 40mA 120kV
kVp/Reference mass	120kv 240mas/Care Dose ON/100kv if pt under 140lbs
Rotation time/pitch	0.5/pitch 0.7
Detector Configuration	64x0.6
Table Speed/Increment	26.88
Dose reduction	CareDose 4D
Allowed CTDI ranges*	7mGy-50mGy
XR29 Dose Notification value	50mGy

Helical Set non contrast

recon	body part	thickness spacing	kernel	window	recon destination
1	abd/pelvis	1.5mmx1.5mm	31medium smooth	mediastinum	pacs

if patient under 40 ask about non contrast images

Helical Set arterial

recon	body part	thickness spacing	kernel	window	recon 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	.6mmx.6mm	31medium smooth	mediastinum	pacs/TR
5	MIP coronal aorta	5mmx2mm	31medium smooth	mediastinum	pacs
6	MIP sag aorta	5mmx2mm	31medium smooth	mediastinum	pacs

Scan start/End location	Hepatic dome Symphysis pubis
DFOV	40cm decrease appropriately
IV contrast volume/type	100ml isovue 370 3-4cc/sec
	Performed as directed by the supervising radiologist
Scan delay	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

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.

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Approved by Dr Verdini