CTA Chest for PE 64 Toshiba

Indications	SOB, Chest pain, cough, elevated d-dimer, hemoptysis
Diagnostic Task	Detect pulmonary embolism, nodules or masses and characterize their size and shape, abnormal fluid collections in chest
Scan mode	Helical
Position/Landmark	Head or feet first-Supine 1cm superior to shoulder
Topogram	AP mA50 kV120 /Lat mA 70 kV120
kVp/Reference mass	135kv Sure Exp 3D(120-550)
Rotation time/pitch	0.5\0.828
Detector Configuration	64x0.5
Table Speed/Increment	26.5
Dose reduction	Sure Exp 3D
Allowed CTDI ranges*	7mGy-50mGy
XR29 Dose Notification value	50mGy

Helical Set

When super D or stereo chest

recon	body part	thickness spacing	recon algorithm	recon destination
1	chest	2mmx 2mm	CTA body	pacs
2	lung	1mmx1mm	lung	pacs
3	sag chest	2mmx2mm	standard	pacs
4	coronal chest	2mmx2mm	standard	pacs
5	axial mip lung	10mmx2mm	lung sharp 2	pacs
6	thin chest	1mmx0.8mm	standard	pacs
7	MIP Pulmonary art RT	10mmx2mm	standard	pacs
8	MIP Pulmonary art LT	10mmx2mm	standard	pacs

Scan Start/end location	2cm superior to lung apices
	through adrenal glands/inferior aspect of L-1
DFOV	40cm/decrease for lung recons
IV contrast volume/type	**80ml if < 200lbs @4cc/sec 100ml if >200lbs isovue 370 @5cc/sec**
	Performed as directed by the supervising radiologist
Scan delay	Surestart
	bolus tracking at plumonary trunk(level just inferior to carina)
	Comments: Being able to locate the pulmonary trunk 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.

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Approved by Dr Ellermeier/Mollard

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