

# CTA Chest for PE +Abd/Pel 64 Toshiba

Indications	SOB, Chest pain, cough, elevated d-dimer, hemoptysis, nausea, vomiting			
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#1      When super D or stereo chest	recon	body part	thickness spacing	recon algorithm 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	standard pacs
	6	thin chest	1mmx0.8mm	standard pacs
	7	MIP Pulmonary art RT	10mmx2mm	standard pacs
	8	MIP Pulmonary art LT	10mmx2mm	standard pacs
Helical Set #2 70 sec delay	recon	body part	thickness spacing	recon algorithm destination
	1	abdomen/pelvis	2mmx 2mm	standard pacs
	2	sag abdomen	2mmx2mm	standard pacs
	3	coronal abdomen	2mmx2mm	standard pacs
Scan Start	Chest-2cm superior to lung apices// AP Diaphragm			
end location	Chest-inferior aspect of L-1//AP lesser trochanter			
DFOV	40cm/decrease for lung recons			
IV contrast volume/type	<b>&lt;200lbs 100ml isovue 370 @4cc/sec &gt;200lbs 125ml isouve 370 @5cc/sec</b>			
	Performed as directed by the supervising radiologist			
Scan delay	PE-Surestart //AP-70sec			
	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.			
	<b>Approximate Values for CTDIvol</b>			
	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.			

