CTA Chest for PE 16 GE

Indications	SOB, Chest pain, cough,	elevated d-dimer, hemoptys	sis	
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 first-Supine Sternal Notch S25-I350			
Topogram	AP 120kV 10mA Lat 120kV 30mA			
kVp/Reference mass	120kv Auto mA (100-440)			
Rotation time/pitch	0.5/1.375:1			
Detector Configuration	16x0.625			
Table Speed/Increment	27.5			
Dose reduction	Noise Index 21.45			
Allowed CTDI ranges*	7mGy-50mGy			
XR29 Dose Notification value	50mGy			
Helical Set	body	thickness		recon
	recon part	spacing	algorithm	destination
	1 chest	1.25mmx 1.25mm	standard	pacs
	2 lung	1.25mmx 1.25mm	lung	pacs
	3 sag chest	2mmx2mm	standard	pacs
	4 coronal chest	2mmx2mm	standard	pacs
	5 axial mip lung	10mmx2mm	standard	pacs
When super D or stereo chest	6 thin chest	1.25mmx1mm	standard	pacs
	7 MIP Pulmonary ar	t RT 10mmx2mm	standard	pacs
	8 MIP Pulmonary ar		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			
	Performed as directed by a supervising radiologist			
Scan delay	bolus tracking at pulmonary trunk(level just inferior to carina)			
	Initiate scan manually-enhancement threshold of 80HU			
	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(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*	AAPM recommended can be set. The	XR29 Dose Notification Value for an a maximum CTDI vol should match the dose rmed unless approved by a radiologist	e notification value. Exams wi	