CTA Chest for PE+AP 16 GE

Indications	SOB, Chest pain, cough, el	evated d-dimer, hemopt	ysis	
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	PE 16x0.625//AP 16x1.25			
Table Speed/Increment	PE 27.5// AP 27.5			
Dose reduction	Noise Index 21.45			
Allowed CTDI ranges*	7mGy-50mGy			
XR29 Dose Notification value	50mGy			
Helical Set #1	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 art F		standard	pacs
	8 MIP Pulmonary art L		standard	pacs
Helical Set #2	body	thickness	3.5	recon
70 sec delay	recon part	spacing	algorithm	destination
•	1 abdomen/pelvis	2.5mmx 2.5mm	standard	pacs
	2 sag abdomen	2mmx2mm	standard	pacs
	3 coronal abdomen	2mmx2mm	standard	pacs
Scan Start	Chest-2cm superior to lung apices// AP Diaphram			
end location	Chest-inferior aspect of L-1//AP lesser trochanter			
DFOV	40cm/decrease for lung recons			
IV contrast volume/type	<200lbs 100ml isovue 370 @4cc/sec >200lbs 125ml isouve 370 @5cc/sec			
	Performed as directed by a supervising radiologist			
Scan delay	bolus tracking at pulmonary trunk(level just inferior to carina)//70sec			
Journ dolay	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 wei	ght(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 XR AAPM recommended can be set. The ma:		•	