CTA Chest for PE GO UP

Indications	SOB Chest pain coun	h elevated d-dimer h	emontvsis		
Diagnostic Task	SOB, Chest pain, cough, elevated d-dimer, hemoptysis Detect pulmonary embolism, nodules or masses and characterize their size and shape, abnormal fluid collections in chest				
Scan mode	Helical				
Position/Landmark	feet first-Supine-inspiration-1cm superior to shoulders				
Topogram	AP 15mA 110kVp				
kVp/Reference mass	110kv 56mAs				
Rotation time/pitch	0.8/1.5				
Detector Configuration	32x0.7				
Table Speed/Increment	33.6				
Dose reduction	Care Dose				
Allowed CTDI ranges*	7mGy-50mGy				
XR29 Dose Notification value	50mGy				
Helical Set	body	thickness			recon
	recon part	spacing	kernel	window	destination
	1 chest	2mmx2mm	Br40	mediastinum	pacs
	2 sag chest	2mmx2mm	Br40	mediastinum	pacs
	3 cor chest	2mmx2mm	Br40	mediastinum	pacs
	4 Lung	1mmx1mm	Br60	lung	pacs
	5 Mip Lung	10mmx2mm	Br36	lung	pacs
	6 super D	1mmx0.8mm	Br44	mediastinum	pacs
	7 Rt Pulm Art MIP	10mmx2mm	Br44	mediastinum	pacs
	8 Lt Pulm Art MIP	10mmx2mm	Br44	mediastinum	pacs
Scan Start/end location	2cm superior to lung apices				
	through adrenal glands/inferior aspect of L-1				
DFOV	45cm				
	decrease for lungs				
IV contrast volume/type	80ml if < 200lbs @4cc/sec				
	Performed as directed by the supervising radiologist				
Scan delay	bolus tracking at plumonary trunk(level just inferior to carina)				
	Trigger is +100HU				
	Comments: Being able				se 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.				