PULMONARY EMBOLISM+AP16 Sensation

Indications	SOB, Chest pain, cough, elevated d-dimer, hemoptysis, nausea, vomittin
Diagnostic Task	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 50mA 120kVp
kVp/Reference mass	120kv 240mAs/Care dose ON
Rotation time/pitch	PE 0.5/0.95// AP 05./0.75
Detector Configuration	16x.75
Table Speed/Increment	PE 11.4// 9
Dose reduction	Care Dose
Allowed CTDI ranges*	7mGy-50mGy
XR29 Dose Notification value	50mGy

Helical Set #1

recon	body part	thickness spacing	kernel	window	recon destination
1	chest	2mmx 2mm	31medium smooth	mediastinum	pacs
2	lung	1.5mmx 1.5mm	70very sharp	lung	pacs
3	thin chest	.75mmx.7mm	31medium smooth	mediastinum	for mpr
4.	thin chest	.75mmx.7mm	b20f smooth	lung	for mpr

Helical Set #2
70 sec delay

recon	body part	thickness spacing	kernel	window	recon destination
1	abd/pelvis	2mmx 2mm	31medium smooth	mediastinum	pacs
2	thin abd/pelvis	1mmx.8mm	31medium smooth	mediastinum	for mpr

2x2 coronal and sag abd/pelvis reformats from helical set #1, recon 2

Scan Start	Chest-2cm superior to lung apices// AP Diaphram
end location	Chest-inferior aspect of L-1//AP lesser trochanter
DFOV	45cm decrease appropriately
3D Technique Used	**2x2 coronal and sag chest reformats for recon 3 series 1**
	10x2 angled MIP obliques to pulmonary arteries
	10x2 axial mip lung from recon 4 series 1
	Performed as directed by the supervising radiologist
IV contrast volume/type	**<200lbs 100ml isovue 370 @4cc/sec >200lbs 125ml isouve 370 @5cc/sec**
Scan delay	bolus tracking at plumonary trunk(level just inferior to carina) Trigger is +75HU//AP 70sec

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

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allowed range should not be performed unless approved by a radiologist.

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