PE CAP

Siemens 16 Slice

Application Examples: sob, r/o pulmonary embolism

Oral Contrast	Yes
IV Contrast / Volume	125 ml Omnipaque 350

Technical Factors

Injection Rate	5 ml/sec
Care Bolus ROI Location / HU	Right Ventricle / *150
Monitoring Delay	5 seconds
Cycle Time	1.2 seconds

PE Chest	
Scan Type	Spiral
Detector Collimator	Acq 16 x 1.2 mm
kV / mAs / Rotation Time (seconds)	110 kV / 145 mAs / 0.6
Care Dose 4D	On
Pitch	1.0
Scan Delay	6 seconds
Breath Hold	Inspiration
Typical CTDIvol	10.41 mGy

Abdomen	
Detector Collimator	Acq 16 x 0.6 mm
kV / mAs / Rotation Time (seconds)	130 kV / 143 mAs / 0.6
Care Dose 4D	Yes
Pitch	0.8
Scan Delay	**35 seconds
Breath Hold	Inspiration
Typical CTDIvol	17.77 mGy

Topogram: AP, 768 mm

Chest	**Width / Increment**	**Kernel**	**Window**	**Series Description**	**Networking**
Recon 1	3 x 1.5	B30s	Mediastinum	CHEST AXIAL	PACS
Recon 2	1.5 x 0.7	B20s	Angio	CHEST AXIAL 1.5 x 0.7 SMOOTH	MIP Thin / TeraRecon

Abdomen	**Width / Increment**	**Kernel**	**Window**	**Series Description**	**Networking**
Recon 1	5 x 5	B30s	Abdomen	ABD AXIAL	PACS
Recon 2	1.5 x 0.7	B30s	Abdomen	ABD AXIAL 1.5 x 0.7 STND	MPR / TeraRecon

IV Placement: ≥ 20 gauge in antecubital (AC) fossa

Patient Position: Patient lying supine with arms above head and lower legs supported.

Scan Instructions: Instruct patient to hold breath on small inspiration and not to strain while holding breath. Bearing down can restrict the flow of contrast; therefore, it is important to practice breathing with patient before scanning.*Trigger scan at first blush of contrast in right ventricle.

Scan Range: Base of lungs through apices then scan above liver to IC or SP as requested. **Scan delay for portal venous phase may need to be adjusted to acquire images at approximately 65 seconds after start of injection.

Recons: Adjust the PE series FoV to rib cage. Adjust abdomen FoV to fit body contour.

Reformations: Post processing done in 3D card. Coronal and sagittal MIPs of lungs only. Coronal and sagittal MPRs of abdomen or AP, as per order.

Series: Chest	**Reformat Type**	**Width / Increment**	**Window**	**Series Description**	**Networking**
Recon 2	Coronal MIP	5 x 3	Angio	COR MIP	PACS
Recon 2	Sagittal MIP	5 x 3	Angio	SAG MIP	PACS

Series: Abdomen	**Reformat Type**	**Width / Increment**	**Window**	**Series Description**	**Networking**
Recon 2	Coronal MPR	3 x 3	Abdomen	COR	PACS
Recon 2	Sagittal MPR	3 x 3	Abdomen	SAG	PACS