## RIH – CTA FOR PULMONARY EMBOLISM GE LIGHTSPEED VCT PROTOCOL

## Indications: Evaluation for suspected pulmonary artery embolism

Position/Landmark	Head first or feet first-Supine				
	Sternal Notch				
Topogram Direction	Craniocaudal				
Respiratory Phase	Suspension of Respiration (not Inspiration)				
Scan Type	Helical				
KV / mA / Rotation time (sec)	Maximum lateral diameter < 48 cm				
Pitch / Speed (mm/rotation)	100 ky / smart mA (120-450) / 0.5 sec				
Noise Index / ASiR / Dose Reduction	0.984:1, 39.37mm				
	<b>16.5</b> / 70 / 30%				
KV / mA / Rotation time (sec)	Maximum lateral diameter > <b>48 cm</b>				
Pitch / Speed (mm/rotation)	120 kv / smart mA (120-500) / 0.5 sec				
Noise Index / ASiR / Dose Reduction	984·1, 39 37mm				
	14.5 / 70 / 30%				
Detector width x Rows = Beam	0.625mm x $64 = 40$ mm				
Collimation					
Average Tube Output	ctdi – 8.9 mGy				
	dlp – 347 mGy.cm				
Helical Set		body	thickness/		recon
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .
Algorithm	1	pe cta	2.5mm x 2.5mm	standard	pacs
Recon Destination	2	thin chest	.6mm x .6mm	standard	for dmpr
	3	lung	5mm x 5mm	lung	pacs
Scan Start / End Locations	1 cm superior to lung anices				
	1 cm inferior to costonbrenic angles				
DFOV	38cm				
	decrease appropriately				
IV Contrast Volume / Type / Rate	100 mL Jopamidol (Isovue 370) / 4 mL per second				
Scan Delay	22 seconds				
2D/3D Technique Used	DMPR of 2.5mm x 2.5mm coronal chest series (auto-batch on), mip mode,				
	auto-transferred to PACS.				
<b>Comments:</b> Helical scan direction for pe cta is from top to bottom. Recon 1 is a standard 2.5mm algorithm for					
vasculature. Recon 2 is a single thin helical group of the chest for direct mpr. Recon 3 is a lung algorithm.					
Images required in PACS	Scouts, 2.5mm x 2.5mm axial pe cta, 2.5mm x 2.5mm coronal chest mip.				
	5mm x 5mm axial lungs, Dose Report				