

## RIH – CT FOR PULMONARY EMBOLISM SIEMENS DEFINITION AS20 PROTOCOL

**Indications: Evaluation for suspected pulmonary artery embolism**

<b>Position/Landmark</b>	Head first or feet first-Supine 2cm superior to shoulders																									
<b>Topogram Direction</b>	Craniocaudal / Craniocaudal																									
<b>Respiratory Phase</b>	Quiet respiration																									
<b>Scan Type</b>	Helical																									
<b>Ref kV/Ref mAs/Rotation time (sec) Pitch / Speed (mm/rotation) Safire Strength / Dose Optimization</b>	Care kV 120 / Care Dose4D 150 / 0.5 sec 1.2:1 , 24.00mm 3 / 6																									
<b>Detector width x Rows = Beam Collimation</b>	1.25mm x 16 = 20mm																									
<b>Average Tube Output</b>	ctdi – 9 mGy dlp – 350 mGy.cm																									
<b>Helical Set</b> Slice Thickness/ Spacing Algorithm Recon Destination	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>recon</th> <th>body part</th> <th>thickness/ spacing</th> <th>algorithm</th> <th>recon destination .</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><b>axial pe</b></td> <td>2mm x 2mm</td> <td>I40f medium</td> <td>pac</td> </tr> <tr> <td>2</td> <td><b>lungs</b></td> <td>5mm x 5mm</td> <td>I70f very sharp</td> <td>pac</td> </tr> <tr> <td>3</td> <td><b>coronal chest</b></td> <td>2mm x 2mm</td> <td>I40f medium</td> <td>pac</td> </tr> <tr> <td>4</td> <td>thin chest</td> <td>1.5mm x 1mm</td> <td>I40f medium</td> <td>terarecon</td> </tr> </tbody> </table>	recon	body part	thickness/ spacing	algorithm	recon destination .	1	<b>axial pe</b>	2mm x 2mm	I40f medium	pac	2	<b>lungs</b>	5mm x 5mm	I70f very sharp	pac	3	<b>coronal chest</b>	2mm x 2mm	I40f medium	pac	4	thin chest	1.5mm x 1mm	I40f medium	terarecon
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<b>Scan Start / End Locations</b>	1cm superior to lung apices 1cm inferior to costophrenic angles																									
<b>DFOV</b>	38cm decrease appropriately																									
<b>IV Contrast Volume / Type / Rate</b>	80 mL Iopamidol (Isovue 370) / 4 mL per second																									
<b>Scan Delay</b>	20 seconds																									
<b>2D/3D Technique Used</b>	Workstream 4D mpr of 2mm x 2mm <b>coronal chest mip</b> series, auto-transferred to PACS.																									
<b>Comments:</b> Recon 4 is a thin helical volume of the chest that is archived to the TeraRecon server.																										
<b>Images required in PACS</b>	Topograms, 2mm x 2mm axial pe cta , 2mm x 2mm coronal chest mip, 5mm x 5mm axial lungs, Patient Protocol																									