

**RIH – PE CTA / ABDOMEN PELVIS  
GE LIGHTSPEED VCT PROTOCOL**

<b>Position/Landmark</b>	Head first or feet first-Supine Sternal Notch																																			
<b>Topogram Direction</b>	Craniocaudal																																			
<b>Respiratory Phase</b>	Suspension of Respiration (not Inspiration)																																			
<b>Scan Type</b>	Helical																																			
<b>KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction</b>	<p>Maximum lateral diameter &lt; <b>48 cm</b></p> <table border="0"> <tr> <td align="center">pe</td> <td align="center">abdomen pelvis</td> </tr> <tr> <td align="center"><b>100kv</b> / smart mA (120-450) / 0.5 sec</td> <td align="center"><b>120kv</b> / smart mA (120-450) / 0.5 sec</td> </tr> <tr> <td align="center">0.984:1 , 39.37mm</td> <td align="center">0.984:1 , 39.37mm</td> </tr> <tr> <td align="center"><b>16.5</b> / 70 / 30%</td> <td align="center"><b>11.5</b> / 70 / 30%</td> </tr> </table>	pe	abdomen pelvis	<b>100kv</b> / smart mA (120-450) / 0.5 sec	<b>120kv</b> / smart mA (120-450) / 0.5 sec	0.984:1 , 39.37mm	0.984:1 , 39.37mm	<b>16.5</b> / 70 / 30%	<b>11.5</b> / 70 / 30%																											
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<b>Average Tube Output</b>	<table border="0"> <tr> <td>First Helical: ctdi – 9 mGy</td> <td>Second Helical: ctdi – 11.3mGy</td> </tr> <tr> <td align="center">dlp – 347 mGy.cm</td> <td align="center">dlp – 613 mGy.cm</td> </tr> </table>	First Helical: ctdi – 9 mGy	Second Helical: ctdi – 11.3mGy	dlp – 347 mGy.cm	dlp – 613 mGy.cm																															
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<b>IV Contrast Volume / Type / Rate</b>	30mL Iohexol (Omnipaque 350) followed by 40mL of saline prior to scouts then 5 minute delay then 100mL Iohexol (Omnipaque 350) , 4mL/sec																																			
<b>Scan Delay</b>	<table border="0"> <tr> <td align="center">pe cta</td> <td align="center">abdomen/pelvis</td> </tr> <tr> <td align="center">22 seconds</td> <td align="center">55 seconds</td> </tr> </table>	pe cta	abdomen/pelvis	22 seconds	55 seconds																															
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<b>2D/3D Technique Used</b>	DMPR of 5mm x 5mm <b>coronal chest, abdomen, pelvis</b> series (auto-batch on), average mode, auto-transferred to PACS.																																			
<b>Comments:</b>	Recon 2 is a single thin helical group of the chest, abdomen, and pelvis for direct mpr.																																			
<b>Images required in PACS</b>	Scouts, 2.5mm x 2.5mm pe chest, 5mm x 5mm abdomen/pelvis, 5mm x 5mm coronal chest, 5mm x 5mm coronal abdomen/pelvis, 5mm x 5mm axial lungs, Dose Report																																			