

**RIH – PEDI CHEST ABDOMEN PELVIS
SIEMENS DEFINITION AS20 PROTOCOL**

Indications - mass, metastases, lymphoma, abscess, general screening.

Position/Landmark	Head first or feet first-Supine 1cm superior to skull vertex																																								
Topogram Direction	Craniocaudal / Craniocaudal																																								
Respiratory Phase	Inspiration																																								
Scan Type	Helical																																								
Ref kV/Ref mAs/Rotation time (sec) Pitch / Speed (mm/rotation) Safire Strength / Dose Optimization	Care kV 100 / Care Dose4D 210 / 0.5 sec .6:1 , 12.00mm 3 / non contrast 3 contrast 7																																								
Detector width x Rows = Beam Collimation	1.25mm x 16 = 20mm																																								
Average Tube Output	ctdi – 5.0mGy dlp – 410 mGy.cm																																								
Second Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	<table border="1"> <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>axial chest</td> <td>5mm x 5mm</td> <td>I40f medium</td> <td>planning</td> </tr> <tr> <td>2</td> <td>axial abd pelvis</td> <td>5mm x 5mm</td> <td>I40f medium</td> <td>planning</td> </tr> <tr> <td>3</td> <td>axial chest abd pelvis</td> <td>3mm x 3mm</td> <td>I40f medium</td> <td>pac</td> </tr> <tr> <td>4</td> <td>coronal chest abd pelvis</td> <td>3mm x 3mm</td> <td>I40f medium</td> <td>pac</td> </tr> <tr> <td>5</td> <td>sagittal chest abd pelvis</td> <td>3mm x 3mm</td> <td>I40f medium</td> <td>pac</td> </tr> <tr> <td>6</td> <td>thin chest abd pelvis</td> <td>1.5mm x 1mm</td> <td>I40f medium</td> <td>terarecon</td> </tr> <tr> <td>7</td> <td>lungs</td> <td>3mm x 3mm</td> <td>I70f very sharp</td> <td>pac</td> </tr> </tbody> </table>	recon	body part	thickness/ spacing	algorithm	recon destination	1	axial chest	5mm x 5mm	I40f medium	planning	2	axial abd pelvis	5mm x 5mm	I40f medium	planning	3	axial chest abd pelvis	3mm x 3mm	I40f medium	pac	4	coronal chest abd pelvis	3mm x 3mm	I40f medium	pac	5	sagittal chest abd pelvis	3mm x 3mm	I40f medium	pac	6	thin chest abd pelvis	1.5mm x 1mm	I40f medium	terarecon	7	lungs	3mm x 3mm	I70f very sharp	pac
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Scan Start / End Locations DFOV	1cm superior to lung apices lesser trochanters 38cm decrease appropriately																																								
IV Contrast Volume / Type / Rate	Contrast volume is 1cc per pound of body weight Omnipaque300 / 2cc per second or hand injection if necessary																																								
Scan Delay	65 seconds or just after hand bolus is completed																																								
2D/3D Technique Used	Workstream 4D mpr of 3mm x 3mm coronal and sagittal chest abdomen/pelvis series, auto-transferred to PACS.																																								
Comments: Recons 1 and 2 of the chest abdomen pelvis are for planning only. This is needed to apply X-Care to only the chest; while keeping the chest abdomen and pelvis in a single volume. Recon 5 is a thin helical volume of the chest abd pelvis that is archived to the TeraRecon server.																																									
Images required in PACS	Topograms, 3mm x 3mm axial chest abd pelvis, 3mm x 3mm coronal chest abd pelvis, 3mm x 3mm sagittal chest abd pelvis, 3mm x 3mm axial lungs, Patient Protocol																																								