

**RIH – PEDI IV CONTRAST CHEST ABDOMEN PELVIS THORACIC
AND LUMBAR SPINES
SIEMENS DEFINITION AS20 PROTOCOL**

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 120 / Care Dose4D 210 / 0.5sec .8:1 , 16.00mm 3 / 6																																													
Detector width x Rows = Beam Collimation	1.25mm x 16 = 20mm																																													
Average Tube Output	ctdi – 11.0mGy dlp – 856 mGy.cm																																													
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	<table border="1"> <thead> <tr> <th></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 abd pelvis</td> <td>3mm x 3mm</td> <td>I40f medium</td> <td>pac</td> </tr> <tr> <td>2</td> <td>axial t and l spine</td> <td>3mm x 3mm</td> <td>I40f medium</td> <td>pac</td> </tr> <tr> <td>3</td> <td>lungs</td> <td>3mm x 3mm</td> <td>I70f very sharp</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>coronal t spine</td> <td>3mm x 3mm</td> <td>I70f very sharp</td> <td>pac</td> </tr> <tr> <td>6</td> <td>coronal l spine</td> <td>3mm x 3mm</td> <td>I70f very sharp</td> <td>pac</td> </tr> <tr> <td>7</td> <td>sagittal t spine</td> <td>3mm x 3mm</td> <td>I70f very sharp</td> <td>pac</td> </tr> <tr> <td>8</td> <td>sagittal l spine</td> <td>3mm x 3mm</td> <td>I70f very sharp</td> <td>pac</td> </tr> </tbody> </table>		body part	thickness/ spacing	algorithm	recon destination	1	axial chest abd pelvis	3mm x 3mm	I40f medium	pac	2	axial t and l spine	3mm x 3mm	I40f medium	pac	3	lungs	3mm x 3mm	I70f very sharp	pac	4	coronal chest abd pelvis	3mm x 3mm	I40f medium	pac	5	coronal t spine	3mm x 3mm	I70f very sharp	pac	6	coronal l spine	3mm x 3mm	I70f very sharp	pac	7	sagittal t spine	3mm x 3mm	I70f very sharp	pac	8	sagittal l spine	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 When oral contrast is prescribed, refer to the appropriate oral contrast agent's preparation and procedure guide.																																													
Scan Delay	30 seconds or just after hand bolus is completed																																													
2D/3D Technique Used	Workstream 4D mpr of 5mm x 5mm coronal chest, abdomen, pelvis series , average mode, 3mm x 3mm sagittal and coronal reformats thoracic and lumbar spines , average mode																																													
Comments:																																														
Images required in PACS	Topograms, 3mm x 3mm axial chest abdomen pelvis, 3mm x 3mm coronal chest abdomen pelvis, 3mm x 3mm axial lungs, 3mm x 3mm axial thoracic and lumbar spines, 3mm x 3mm coronal and sagittal thoracic spine, 3mm x 3mm coronal and sagittal lumbar spine, Patient Protocol																																													