

**RIH – IV CONTRAST CHEST ABDOMEN PELVIS
SIEMENS DEFINITION AS+ 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 120 / Care Dose4D 150 / 0.5sec .6:1 , 24.00mm 3 / 6																																			
Detector width x Rows = Beam Collimation	0.625mm x 64 = 40mm (128 x .6mm)																																			
Average Tube Output	ctdi – 11.0mGy dlp – 836 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>5mm x 5mm</td> <td>I40f medium</td> <td>pacs</td> </tr> <tr> <td>4</td> <td>coronal chest abd pelvis</td> <td>5mm x 5mm</td> <td>I40f medium</td> <td>pacs</td> </tr> <tr> <td>5</td> <td>thin chest abd pelvis</td> <td>.75mm x .7mm</td> <td>I40f medium</td> <td>terarecon</td> </tr> <tr> <td>6</td> <td>lungs</td> <td>5mm x 5mm</td> <td>I70f very sharp</td> <td>pacs</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	5mm x 5mm	I40f medium	pacs	4	coronal chest abd pelvis	5mm x 5mm	I40f medium	pacs	5	thin chest abd pelvis	.75mm x .7mm	I40f medium	terarecon	6	lungs	5mm x 5mm	I70f very sharp	pacs
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Scan Start / End Locations DFOV	1cm superior to lung apices lesser trochanters 38cm decrease appropriately																																			
IV Contrast Volume / Type / Rate	30mL Iohexol (Omnipaque 350) followed by 40mL of saline prior to scouts then 5 minute delay then 100mL Iohexol (Omnipaque 350) , 3mL/sec When oral contrast is prescribed, refer to the appropriate oral contrast agent's preparation and procedure guide.																																			
Scan Delay	50 seconds																																			
2D/3D Technique Used	Workstream 4D mpr of 5mm x 5mm coronal chest abd 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, 5mm x 5mm axial chest abd pelvis, 5mm x 5mm coronal chest abd pelvis, 5mm x 5mm axial lungs, Patient Protocol																																			