

**RII – 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>5mm x 5mm</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>5mm x 5mm</td> <td>I70f very sharp</td> <td>pac</td> </tr> <tr> <td>4</td> <td>coronal chest abd pelvis</td> <td>5mm x 5mm</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	5mm x 5mm	I40f medium	pac	2	axial t and l spine	3mm x 3mm	I40f medium	pac	3	lungs	5mm x 5mm	I70f very sharp	pac	4	coronal chest abd pelvis	5mm x 5mm	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	30mL Iohexol (Omnipaque 300) followed by 40mL of saline prior to scouts then 5 minute delay then 100mL Iohexol (Omnipaque 300) , 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, abdomen, pelvis series , average mode, 3mm x 3mm sagittal and coronal reformats thoracic and lumbar spines , average mode																																													
Comments:																																														
Images required in PACS	Topograms, 5mm x 5mm axial chest abdomen pelvis, 5mm x 5mm coronal chest abdomen pelvis, 5mm x 5mm 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																																													