

**RIH – PEDI NC ABDOMEN/PELVIS FOR RENAL STONE  
SIEMENS DEFINITION AS20 PROTOCOL**

**Indications: Evaluation for renal/ureteral calculi.**

<b>Position/Landmark</b>	Head first or feet first-Supine Sternal Notch																									
<b>Topogram Direction</b>	Craniocaudal / Craniocaudal																									
<b>Respiratory Phase</b>	Inspiration																									
<b>Scan Type</b>	Helical																									
<b>Ref kV/Ref mAs/Rotation time (sec) Pitch / Speed (mm/rotation) Safire Strength / Dose Optimization</b>	Care kV 100 / Care Dose4D 180 / 0.5 sec .8:1 , 16.00mm 3 / 4																									
<b>Detector width x Rows = Beam Collimation</b>	1.25mm x 16 = 20mm																									
<b>Average Tube Output</b>	ctdi – 8.0mGy dlp – 470 mGy.cm																									
<b>Helical Set</b> 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><b>nc renal stone</b></td> <td>5mm x 5mm</td> <td>I40f medium</td> <td>pac</td> </tr> <tr> <td>2</td> <td><b>coronal nc abd/pelvis</b></td> <td>5mm x 5mm</td> <td>I40f medium</td> <td>pac</td> </tr> <tr> <td>3</td> <td><b>sagittal nc abd/pelvis</b></td> <td>3mm x 3mm</td> <td>I40f medium</td> <td>pac</td> </tr> <tr> <td>4</td> <td>thin abd/pelvis</td> <td>1.5mm x 1mm</td> <td>I40f medium</td> <td>terarecon</td> </tr> </tbody> </table>	recon	body part	thickness/ spacing	algorithm	recon destination	1	<b>nc renal stone</b>	5mm x 5mm	I40f medium	pac	2	<b>coronal nc abd/pelvis</b>	5mm x 5mm	I40f medium	pac	3	<b>sagittal nc abd/pelvis</b>	3mm x 3mm	I40f medium	pac	4	thin abd/pelvis	1.5mm x 1mm	I40f medium	terarecon
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<b>Scan Start / End Locations</b>	1 cm superior to diaphragm lesser trochanters																									
<b>DFOV</b>	38cm decrease appropriately																									
<b>IV Contrast Volume / Type / Rate</b>																										
<b>Scan Delay</b>																										
<b>2D/3D Technique Used</b>	Workstream 4D mpr of 3mm x 3mm <b>coronal and sagittal abdomen/pelvis</b> series, auto-transferred to PACS.																									
<b>Comments:</b> This protocol uses a lower reference mAs and is specifically used for the detection of gu calculi. Recon 4 is a thin helical volume of the abdomen/pelvis that is archived to the TeraRecon server.																										
<b>Images required in PACS</b>	Topograms, 3mm x 3mm axial abdomen/pelvis, 3mm x 3mm coronal abdomen/pelvis, 3mm x 3mm sagittal abdomen/pelvis, Patient Protocol																									