

**RIH – PEDI HIP/ACETABULUM
SIEMENS DEFINITION AS20 PROTOCOL**

Indication: trauma, fracture, dislocation, abscess

Position/Landmark	Head first or feet first-Supine 2cm superior to Iliac Crest																																			
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 220 / .5 sec .8:1 , 10.00mm 3 / 5																																			
Detector width x Rows = Beam Collimation	0.625mm x 20 = 12.5mm																																			
Average Tube Output	ctdi – 5.0mGy dlp – 140mGy.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 soft tissue pelvis</td> <td>5mm x 5mm</td> <td>I40s medium</td> <td>pac</td> </tr> <tr> <td>2</td> <td>axial bony pelvis</td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>3</td> <td>coronal pelvis</td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>4</td> <td>coronal oblique hip</td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>5</td> <td>sagittal oblique hip</td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>6</td> <td>thin pelvis</td> <td>.75mm x .7mm</td> <td>I70h very sharp</td> <td>terarecon</td> </tr> </tbody> </table>		body part	thickness/ spacing	algorithm	recon destination	1	axial soft tissue pelvis	5mm x 5mm	I40s medium	pac	2	axial bony pelvis	3mm x 3mm	I70h very sharp	pac	3	coronal pelvis	3mm x 3mm	I70h very sharp	pac	4	coronal oblique hip	3mm x 3mm	I70h very sharp	pac	5	sagittal oblique hip	3mm x 3mm	I70h very sharp	pac	6	thin pelvis	.75mm x .7mm	I70h very sharp	terarecon
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Scan Start / End Locations	2cm superior to iliac crest lesser trochanters																																			
DFOV	38cm decrease appropriately																																			
IV Contrast Volume / Type / Rate																																				
Scan Delay																																				
2D/3D Technique Used	Workstream 4D mpr of 3mm x 3mm coronal pelvis series, auto-transferred to PACS. Workstream 4D mpr sagittal and coronal unilateral hip reformats , 3.0mm x 3.0mm, auto-transferred to PACS																																			
Comments: Recon 4 is a thin helical volume of the pelvis that is archived to the TeraRecon server.																																				
Images required in PACS	Topograms, 5mm x 5mm axial soft tissue pelvis, 3mm x 3mm axial bony pelvis, 3mm x 3mm coronal pelvis, 3mm x 3mm coronal and sagittal oblique hip, Patient Protocol																																			