

**RIH – PEDI KNEE CT
SIEMENS DEFINITION AS20 PROTOCOL**

Indication: fracture, dislocation, osteomyelitis, bone injury, bone tumor.

Position/Landmark	Supine , feet first Zero Appropriately																														
Topogram Direction	Craniocaudal																														
Respiratory Phase	Any																														
Scan Type	Helical																														
Ref kV/Ref mAs/Rotation time (sec) Pitch / Speed (mm/rotation) Safire Strength / Dose Optimization	Care kV 100 / Care Dose4D 65 / 1 sec .8:1 , 10.00mm 3 / 5																														
Detector width x Rows = Beam Collimation	0.625mm x 20 = 12.5mm																														
Average Tube Output	ctdi – 2.0mGy dlp – 90mGy.cm																														
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	<table border="1" style="width: 100%; border-collapse: collapse;"> <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 soft knee</td> <td>3mm x 3mm</td> <td>I40s medium</td> <td>pac</td> </tr> <tr> <td>2</td> <td>axial bony knee</td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>3</td> <td>coronal knee</td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>4</td> <td>sagittal knee</td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>5</td> <td>thin knee</td> <td>.75mm x .7mm</td> <td>I70h very sharp</td> <td>terarecon</td> </tr> </tbody> </table>	recon	body part	thickness/ spacing	algorithm	recon destination .	1	axial soft knee	3mm x 3mm	I40s medium	pac	2	axial bony knee	3mm x 3mm	I70h very sharp	pac	3	coronal knee	3mm x 3mm	I70h very sharp	pac	4	sagittal knee	3mm x 3mm	I70h very sharp	pac	5	thin knee	.75mm x .7mm	I70h very sharp	terarecon
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Scan Start / End Locations	determined by technologist or radiologist to include the anatomy of interest																														
DFOV	18cm decrease appropriately																														
IV Contrast Volume / Type / Rate	75mL Iohexol (Omnipaque 350) / 2mL per second if needed																														
Scan Delay	65 seconds																														
2D/3D Technique Used	Workstream 4D mpr of 3mm x 3mm coronal and sagittal knee series (auto-batch off), average mode, auto-transferred to PACS																														
Comments: Recon 5 is a thin helical volume of the knee that is archived to the TeraRecon server.																															
Images required in PACS	Topograms, 3mm x 3mm axial knee bone, 3mm x 3mm axial knee standard, 3mm x 3mm sagittal knee, 3mm x 3mm coronal knee, Patient Protocol																														