RIH - 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 120 / Care Dose4D 100 / 1 sec .8:1 , 10.00mm 3 / 4
Detector width x Rows = Beam Collimation	0.625mm x 20 = 12.5mm
Average Tube Output	ctdi – 5.0mGy dlp – 180mGy.cm
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	<table><tr><td>recon</td><td>body part</td><td>thickness/ spacing</td><td>algorithm</td><td>recon destination .</td></tr><tr><td>1</td><td>**axial soft knee**</td><td>3mm x 3mm</td><td>I40s medium</td><td>pacs</td></tr><tr><td>2</td><td>**axial bony knee**</td><td>3mm x 3mm</td><td>I70h very sharp</td><td>pacs</td></tr><tr><td>3</td><td>**coronal knee**</td><td>3mm x 3mm</td><td>I70h very sharp</td><td>pacs</td></tr><tr><td>4</td><td>**sagittal knee**</td><td>3mm x 3mm</td><td>I70h very sharp</td><td>pacs</td></tr><tr><td>5</td><td>thin knee</td><td>.75mm x .7mm</td><td>I70h very sharp</td><td>terarecon</td></tr></table>
Scan Start / End Locations **DFOV**	determined by technologist or radiologist to include the anatomy of interest 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

updated Jan 23, 2017