RIH - KNEE CT
GE LIGHTSPEED VCT 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
KV / mA / Rotation time (sec) **Pitch / Speed (mm/rotation)** **Noise Index / ASiR / Dose Reduction**	120kv / smart mA (100-450) / 0.5 sec 0.984:1 , 39.37mm 16.0 / 20 / 20%
Detector width x Rows = Beam Collimation	0.625mm x 64 = 40mm
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>**knee bone**</td><td>2.5mm x 2.5mm</td><td>bone</td><td>pacs</td></tr><tr><td>2</td><td>thin knee</td><td>.6mm x .6mm</td><td>bone</td><td>for dmpr</td></tr><tr><td>3</td><td>**knee soft tissue**</td><td>2.5mm x 2.5mm</td><td>standard</td><td>pacs</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	DMPR of 3mm x 3mm **coronal and sagittal knee** series (auto-batch off), average mode, auto-transferred to PACS
Comments: Recon 1 is the 2.5mm x 2.5mm knee, bone algorithm ct going to PACS. Recon 2 is a single thin helical group of the knee for direct mpr. Recon 3 is the 2.5mm x 2.5mm knee, standard algorithm ct going to PACS.	
Images required in PACS	Scouts, 2.5mm x 2.5mm axial knee bone, 2.5mm x 2.5mm axial knee standard, 3mm x 3mm sagittal knee, 3mm x 3mm coronal knee, Dose Report

updated Jan 23, 2017