

## RIH - PATELLA TRACKING/ FEMORAL ANTEVERSION GE LIGHTSPEED VCT PROTOCOL

**Indication: knee pain, evaluate patella location and femoral anteversion.**

<b>Position/Landmark</b>	Supine , feet first Iliac Crest				
<b>Topogram Direction</b>	Craniocaudal				
<b>Respiratory Phase</b>	Any				
<b>Scan Type</b>	Helical				
<b>KV / mA / Rotation time (sec)</b> <b>Pitch / Speed (mm/rotation)</b> <b>Noise Index / ASiR / Dose Reduction</b>	120kv / smart mA (100-450) / 0.5 sec 0.984:1 , 39.37mm 16.0 / 20 / 20%				
<b>Detector width x Rows = Beam Collimation</b>	0.625mm x 64 = 40mm				
<b>First Helical Set</b> Slice Thickness/ Spacing Algorithm Recon Destination	<u>recon</u>	body part	thickness/ spacing	algorithm	recon destination .
	1	bilat hips	2.5mm x 2.5mm	bone	pacs
<b>Second Helical Set</b> Slice Thickness/ Spacing Algorithm Recon Destination	<u>recon</u>	body part	thickness/ spacing	algorithm	recon destination .
	1	bilat knees 0 degree angulation	2.5mm x 2.5mm	bone	pacs
<b>Third - Seventh Helical Sets</b> Slice Thickness/ Spacing Algorithm Recon Destination	<u>recon</u>	body part	thickness/ spacing	algorithm	recon destination .
	1	bilat knees 10–40 degree angulations	2.5mm x 2.5mm	bone	pacs
<b>Scan Start / End Locations</b>  <b>DFOV</b>	bilateral hips top of acetabulum just below femoral neck		bilateral knees top of patella 1cm into tibia  38cm small as possible, include all of hips and knees		
<b>IV Contrast Volume / Type / Rate</b>					
<b>Scan Delay</b>					
<b>2D/3D Technique Used</b>					
<b>Comments:</b> This protocol consists of a hip series (series2), and a progression of knee series (series3-7). The hips and knees are scanned at 0 degrees; then the knees are scanned at 10–40 degrees flexion (use sponges).					
<b>Images required in PACS</b>	Scouts, 2.5mm x 2.5mm axial hips, 2.5mm x 2.5mm axial knees 0 degrees, 2.5mm x 2.5mm axial knees 10-40 degrees, measurement screen saves, Dose Report				