

RIH - LUMBO-SACRAL SPINE GE LIGHTSPEED VCT PROTOCOL

Indication: fracture, trauma, mets, disc rupture, disc herniation, stenosis.

Position/Landmark	Supine head first or feet first Zero at Iliac Crest				
Topogram Direction	Craniocaudal				
Respiratory Phase	Suspension				
Scan Type	Helical				
KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction	120kv / smart mA (100-450) / 0.7 sec 1.375:1 , 55.00mm 16.0 / 20 / 20%				
Detector width x Rows = Beam Collimation	0.625mm x 64 = 40mm				
Average Tube Output	ctdi – 11.3mGy dlp – 656 mGy.cm				
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	<u>recon</u>	<u>body part</u>	<u>thickness/ spacing</u>	<u>algorithm</u>	<u>recon destination</u>
	1	l spine	2.5mm x 2.5mm	bone	pacs
	2	thin l spine	.6mm x .6mm	bone	for dmpr
	3	l spine	2.5mm x 2.5mm	standard	pacs
Scan Start / End Locations	mid body of T12 mid body of S3				
DFOV	18cm decrease appropriately				
IV Contrast Volume / Type / Rate	70mL Iohexol (Omnipaque 350) , 2mL/sec if needed				
Scan Delay	65 seconds				
2D/3D Technique Used	DMPR of 3mm x 3mm coronal and sagittal l-spine series (auto-batch off), average mode, auto-transferred to PACS				
Comments: Recon 1 is the 2.5mm x 2.5mm, l spine bone algorithm ct going to PACS. Recon 2 is a single thin helical group of the l spine for direct mpr. Recon 3is the 2.5mm x 2.5mm l spine standard algorithm ct going to PACS.					
Images required in PACS	Scouts, 2.5mm x 2.5mm axial l spine bone, 2.5mm x 2.5mm axial l spine standard, 3mm x 3mm sagittal l spine, 3mm x 3mm coronal l spine, Dose Report				