

## RIH – POST MYELOGRAM SPINE GE LIGHTSPEED VCT PROTOCOL

**Indication: disc herniation, stenosis, post myelo.**

<b>Position/Landmark</b>	Supine head first or feet first			
	Cervical Sternal Notch	Thoracic Sternal Notch	Lumbar Iliac Crest	
<b>Topogram Direction</b>	Craniocaudal			
<b>Respiratory Phase</b>	Suspension			
<b>Scan Type</b>	Helical			
<b>KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction</b>	120kv / smart mA (100-450) / 0.7 sec 1.375:1 , 55.00mm 15.0 / 20 / 20%			
<b>Detector width x Rows = Beam Collimation</b>	0.625mm x 64 = 40mm			
<b>Helical Set</b>	body	thickness/	recon	
Slice Thickness/ Spacing	recon	part	spacing	algorithm
Algorithm	1	c, t or l spine	2.5mm x 2.5mm	standard
Recon Destination	2	thin spine	.6mm x .6mm	bone
	3	c, t or l spine	2.5mm x 2.5mm	bone
<b>Scan Start / End Locations</b>	Cervical	Thoracic	Lumbar	
<b>DFOV</b>	Base of skull mid body of T1	mid body of C7 mid body of L1 18cm decrease appropriately	mid body of T12 mid body of S3	
<b>IV Contrast Volume / Type / Rate</b>				
<b>Scan Delay</b>				
<b>2D/3D Technique Used</b>	DMPR of 3mm x 3mm coronal and sagittal spine series (auto-batch off), average mode, auto-transferred to PACS			
<b>Comments:</b> CT myelogram patients are typically injected with 10mL of iohexol (Omnipaque 240-300) in the lumbar area by the Fluoro dept. The scan delays are: Thoracic and Lumbar: 2 hours post injection. Cervical: Just after injection. To attempt to mix the contrast throughout the spinal cord, the patient should be log-rolled 3 times before being positioned on the ct table.				
<b>Note:</b> When an injections in the cervical region is needed, it will be done in VIR.				
<b>Lumbar Myelograms:</b> Do semi-axial reformats, 3.0mm x 3.0mm, average mode, parallel to the disc space of L4-5 and L5-S1. Use a symmetrical sagittal image in the oblique box as the reformat reference image.				
<b>Images required in PACS</b>	Scouts, 2.5mm x 2.5mm axial spine bone, 2.5mm x 2.5mm axial spine standard, 3mm x 3mm sagittal spine, 3mm x 3mm coronal spine, Dose Report			