RIH - LUMBO-SACRAL SPINE GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL

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

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)	120kv / smart mA (100-440) / 0.5 sec				
Pitch / Speed (mm/rotation)	1.375:1, 27.50mm				
Noise Index / ASiR / Dose Reduction	13.5 / 20 / 20%				
Detector width x Rows = Beam Collimation	$1.25 \text{mm} \times 16 = 20 \text{mm}$				
Average Tube Output	ctdi – 14.3mGy dlp – 796 mGy.cm				
Helical Set		body	thickness/		recon
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .
Algorithm	1	l spine	2.5mm x 2.5mm	bone	pacs
Recon Destination	2	thin 1 spine	1.2mm 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	+		70cc omni 350 / 2cc p		
	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:					
Post-Myelogram Studies: Do semi-and L5-S1. Use a symmetrical sagin					sc space of L4-5
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				