

**RIH – LUMBOSACRAL SPINE
SIEMENS DEFINITION AS20 PROTOCOL**

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

Position/Landmark	Head first or feet first-Supine Mid Skull
Topogram Direction	Craniocaudal / Craniocaudal
Respiratory Phase	Suspension
Scan Type	Helical
Ref kV/Ref mAs/Rotation time (sec) Pitch / Speed (mm/rotation) Safire Strength / Dose Optimization	Care kV 120 / Care Dose4D 230 / 1.0 sec .8:1 , 10.00mm 2 / 3
Detector width x Rows = Beam Collimation	0.625mm x 20 = 12.5mm
Average Tube Output	ctdi – 10.0mGy dlp – 300mGy.cm
Helical Set	body thickness/ recon part spacing algorithm recon destination .
Slice Thickness/ Spacing	1 axial l spine tissue 3mm x 3mm I40f medium pacs
Algorithm	2 axial l spine bone 3mm x 3mm I70h very sharp pacs
Recon Destination	3 coronal l spine 3mm x 3mm I70h very sharp pacs
	4 sagittal l spine 3mm x 3mm I70h very sharp pacs
	5 thin l spine .75mm x .7mm I70h very sharp terarecon
Scan Start / End Locations	external auditory meatus mid body of T1
DFOV	18cm decrease appropriately
IV Contrast Volume / Type / Rate	70mL Iohexol (Omnipaque 300) , 2mL/sec if prescribed
Scan Delay	65 seconds
2D/3D Technique Used	Workstream 4D mpr of 3mm x 3mm coronal and sagittal l spine series, auto-transferred to PACS.
Comments: Recon 5 is a thin helical volume of the l spine that is archived to the TeraRecon server.	
Images required in PACS	Topograms, 3mm x 3mm axial l spine soft tissue, 3mm x 3mm axial l spine bone, 3mm x 3mm coronal l spine, 3mm x 3mm sagittal l spine, Patient Protocol