RIH – THORACIC 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 – 9.0mGy dlp – 200mGy.cm
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	<table><tr><td>recon</td><td>body part</td><td>thickness/ spacing</td><td>algorithm</td><td>recon destination .</td></tr><tr><td>1</td><td>**axial t spine tissue**</td><td>3mm x 3mm</td><td>I40f medium</td><td>pacs</td></tr><tr><td>2</td><td>**axial t spine bone**</td><td>3mm x 3mm</td><td>I70h very sharp</td><td>pacs</td></tr><tr><td>3</td><td>**coronal t spine**</td><td>3mm x 3mm</td><td>I70h very sharp</td><td>pacs</td></tr><tr><td>4</td><td>**sagittal t spine**</td><td>3mm x 3mm</td><td>I70h very sharp</td><td>pacs</td></tr><tr><td>5</td><td>thin t spine</td><td>.75mm x .7mm</td><td>I70h very sharp</td><td>terarecon</td></tr></table>
Scan Start / End Locations **DFOV**	external auditory meatus mid body of T1 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 t spine** series, auto-transferred to PACS.
Comments: Recon 5 is a thin helical volume of the t spine that is archived to the TeraRecon server.	
Images required in PACS	Topograms, 3mm x 3mm axial t spine soft tissue, 3mm x 3mm axial t spine bone, 3mm x 3mm coronal t spine, 3mm x 3mm sagittal t spine, Patient Protocol

updated Jan 23, 2017