RIH – PEDI CERVICAL 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 100 / 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 – 5.0mGy dlp – 110mGy.cm
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination . 1 **axial c spine tissue** 3mm x 3mm I40f medium pacs 2 **axial c spine bone** 3mm x 3mm I70h very sharp pacs 3 **coronal c spine** 3mm x 3mm I70h very sharp pacs 4 **sagittal c spine** 3mm x 3mm I70h very sharp pacs 5 thin c spine .75mm x .7mm I70h very sharp terarecon
Scan Start / End Locations **DFOV**	external auditory meatus mid body of T1 18cm decrease appropriately
IV Contrast Volume / Type / Rate	Contrast volume is 1cc per pound of body weight omni 300 / 2cc per second or hand injection if necessary
Scan Delay	65 seconds or just after hand injection is done
2D/3D Technique Used	Workstream 4D mpr of 3mm x 3mm **coronal and sagittal c spine** series, auto-transferred to PACS.
Comments: Recon 5 is a thin helical volume of the c spine that is archived to the TeraRecon server.	
Images required in PACS	Topograms, 3mm x 3mm axial c spine soft tissue, 3mm x 3mm axial c spine bone, 3mm x 3mm coronal c spine, 3mm x 3mm sagittal c spine, Patient Protocol