RIH – PEDI SHOULDER CT
SIEMENS DEFINITION AS20 PROTOCOL

Indication: fracture, dislocation, osteomyelitis, bone injury, bone tumor.

Position/Landmark	Supine , feet first Zero Appropriately
Topogram Direction	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 65 / 1 sec .8:1 , 10.00mm 3 / 5
Detector width x Rows = Beam Collimation	0.625mm x 20 = 12.5mm
Average Tube Output	ctdi – 5.0mGy dlp – 140mGy.cm
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination . 1 **axial soft shoulder** 3mm x 3mm I40s medium pacs 2 **axial bony shoulder** 3mm x 3mm I70h very sharp pacs 3 **coronal shoulder** 3mm x 3mm I70h very sharp pacs 4 **sagittal shoulder** 3mm x 3mm I70h very sharp pacs 5 thin shoulder .75mm x .7mm I70h very sharp terarecon
Scan Start / End Locations **DFOV**	determined by technologist or radiologist to include the anatomy of interest 18cm decrease appropriately
IV Contrast Volume / Type / Rate	75mL Iohexol (Omnipaque 350) / 2mL per second if needed
Scan Delay	65 seconds
2D/3D Technique Used	Workstream 4D mpr of 3mm x 3mm **coronal and sagittal shoulder** series (auto-batch off), average mode, auto-transferred to PACS
Comments: Recon 5 is a thin helical volume of the shoulder that is archived to the TeraRecon server.	
Images required in PACS	Topograms, 3mm x 3mm axial shoulder bone, 3mm x 3mm axial shoulder standard, 3mm x 3mm sagittal shoulder, 3mm x 3mm coronal shoulder, Patient Protocol

updated Jan 23, 2017