

**RIH – PEDI ELBOW 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	Any			
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 – 2.0mGy dlp – 50mGy.cm			
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon	body part	thickness/ spacing	recon algorithm destination .
	1	axial soft elbow	3mm x 3mm	I40s medium pacs
	2	axial bony elbow	3mm x 3mm	I70h very sharp pacs
	3	coronal elbow	3mm x 3mm	I70h very sharp pacs
	4	sagittal elbow	3mm x 3mm	I70h very sharp pacs
	5	true axial elbow	3mm x 3mm	I70h very sharp pacs
	6	thin elbow	.75mm x .7mm	I70h very sharp terarecon
Scan Start / End Locations	determined by technologist or radiologist to include the anatomy of interest			
DFOV	10cm 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 elbow series (auto-batch off), average mode, auto-transferred to PACS Also, there is a 3mm x 3mm true axial reformat if needed due to the patient's position.			
Comments:	Recon 6 is a thin helical volume of the elbow that is archived to the TeraRecon server.			
Images required in PACS	Topograms, 3mm x 3mm axial elbow bone, 3mm x 3mm axial elbow standard, 3mm x 3mm sagittal elbow, 3mm x 3mm coronal elbow, Patient Protocol			