

**RIH - ELBOW CT
SIEMENS DEFINITION AS+ 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 120 / Care Dose4D 100 / 1 sec .8:1 , 32.00mm 3 / 4																																			
Detector width x Rows = Beam Collimation	0.625mm x 64 = 40mm (128 x .6mm)																																			
Average Tube Output	ctdi – 3.0mGy dlp – 80mGy.cm																																			
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	<table border="1"> <thead> <tr> <th>recon</th> <th>body part</th> <th>thickness/ spacing</th> <th>algorithm</th> <th>recon destination</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>axial soft elbow</td> <td>3mm x 3mm</td> <td>I40s medium</td> <td>pac</td> </tr> <tr> <td>2</td> <td>axial bony elbow</td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>3</td> <td>coronal elbow</td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>4</td> <td>sagittal elbow</td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>5</td> <td>true axial elbow</td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>6</td> <td>thin elbow</td> <td>.75mm x .7mm</td> <td>I70h very sharp</td> <td>terarecon</td> </tr> </tbody> </table>	recon	body part	thickness/ spacing	algorithm	recon destination	1	axial soft elbow	3mm x 3mm	I40s medium	pac	2	axial bony elbow	3mm x 3mm	I70h very sharp	pac	3	coronal elbow	3mm x 3mm	I70h very sharp	pac	4	sagittal elbow	3mm x 3mm	I70h very sharp	pac	5	true axial elbow	3mm x 3mm	I70h very sharp	pac	6	thin elbow	.75mm x .7mm	I70h very sharp	terarecon
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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																																			