

**RIH - ELBOW CT  
GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL**

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

<b>Position/Landmark</b>	Supine , feet first Zero Appropriately				
<b>Topogram Direction</b>	Craniocaudal				
<b>Respiratory Phase</b>	Any				
<b>Scan Type</b>	Helical				
<b>KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index</b>	120kv / smart mA (100-440) / .5 sec .938:1 , 9.37mm 25.00				
<b>Detector width x Rows = Beam Collimation</b>	0.625mm x 16 = 10mm				
<b>Helical Set</b>					recon
Slice Thickness/ Spacing	recon	body part	thickness/ spacing	algorithm	recon destination .
Algorithm	1	thin elbow	.6mm x .6mm	bone	for dmpr
Recon Destination	2	<b>elbow bone</b>	2.5mm x 2.5mm	bone	pacs
	3	<b>elbow soft tissue</b>	2.5mm x 2.5mm	standard	pacs
<b>Scan Start / End Locations</b>	determined by technologist or radiologist to include the anatomy of interest				
<b>DFOV</b>	18cm decrease appropriately				
<b>IV Contrast Volume / Type / Rate</b>	70cc omni 350 / 2cc per second if needed				
<b>Scan Delay</b>	65 seconds				
<b>2D/3D Technique Used</b>	DMPR 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.				
<b>Comments:</b>	Recon 1 is a single thin helical group of the elbow for direct mpr. Recon 2 is the 2.5mm x 2.5mm elbow, bone algorithm ct going to PACS. Recon is the 2.5mm x 2.5mm elbow, standard algorithm ct going to PACS.				
<b>Images required in PACS</b>	Scouts, 2.5mm x 2.5mm axial elbow bone, 2.5mm x 2.5mm axial elbow standard, 3mm x 3mm sagittal elbow, 3mm x 3mm coronal elbow, Dose Report				