# RIH - ELBOW CT

## SIEMENS DEFINITION AS+ PROTOCOL

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

| Position/Landmark | Supine, feet first  
<table>
<thead>
<tr>
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<th>Zero Appropriately</th>
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<tbody>
<tr>
<td>Topogram Direction</td>
<td>Craniocaudal</td>
</tr>
<tr>
<td>Respiratory Phase</td>
<td>Any</td>
</tr>
<tr>
<td>Scan Type</td>
<td>Helical</td>
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</tbody>
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**Ref kV/Ref mAs/Rotation time (sec)**
- 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  
<table>
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<tbody>
<tr>
<td>Recon Part</td>
<td>thickness/spacing</td>
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</table>
| Recon Destination | algorithm  
| Recon 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