# RIH - SHOULDER CT

## GE LIGHTSPEED VCT 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 |

**KV / mA / Rotation time (sec)**

- 120kv / smart mA (100-450) / 0.5 sec
- 0.984:1 , 39.37mm
- 16.0 / 20 / 20%

**Detector width x Rows = Beam Collimation**

- 0.625mm x 64 = 40mm

### Helical Set

<table>
<thead>
<tr>
<th>Slice Thickness/ Spacing Algorithm</th>
<th>Recon body part</th>
<th>thickness/ spacing</th>
<th>algorithm</th>
<th>recon destination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recon 1</td>
<td><strong>shoulder bone</strong></td>
<td>2.5mm x 2.5mm</td>
<td>bone</td>
<td>pacs</td>
</tr>
<tr>
<td>Recon 2</td>
<td>thin shoulder</td>
<td>.6mm x .6mm</td>
<td>bone</td>
<td>for dmpr</td>
</tr>
<tr>
<td>Recon 3</td>
<td><strong>shoulder soft tissue</strong></td>
<td>2.5mm x 2.5mm</td>
<td>standard</td>
<td>pacs</td>
</tr>
</tbody>
</table>

**Scan Start / End Locations**

determined by technologist or radiologist to include the anatomy of interest

**DFOV**

- 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**

- DMPR of 3mm x 3mm **coronal and sagittal shoulder** series (auto-batch off), average mode, auto-transferred to PACS

**Comments:** Recon 1 is the 2.5mm x 2.5mm shoulder, bone algorithm ct going to PACS. Recon 2 is a single thin helical group of the shoulder for direct mpr. Recon 3 is the 2.5mm x 2.5mm shoulder, standard algorithm ct going to PACS.

**Images required in PACS**

- Scouts, 2.5mm x 2.5mm axial shoulder bone, 2.5mm x 2.5mm axial shoulder standard, 3mm x 3mm sagittal shoulder, 3mm x 3mm coronal shoulder, Dose Report