**RIH - WRIST/HAND CT**  
**GE LIGHTSPEED 16 / OPTIMA CT580 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            

| **KV / mA / Rotation time (sec)** | 120kv / smart mA (100-440) / .5 sec  
| **Pitch / Speed (mm/rotation)**  | .938:1 , 9.37mm  
| **Noise Index**                | 25.00              
| **Detector width x Rows = Beam Collimation** | 0.625mm x 16 = 10mm  

<table>
<thead>
<tr>
<th>Helical Set</th>
<th>Slice Thickness/Spacing</th>
<th>Algorithm</th>
<th>Recon Destination</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>recon</td>
<td>part</td>
</tr>
<tr>
<td>1</td>
<td>thin wrist/hand</td>
<td>.6mm x .6mm</td>
<td>bone</td>
</tr>
<tr>
<td>2</td>
<td><strong>wrist/hand bone</strong></td>
<td>1.25mm x 1.25mm</td>
<td>bone</td>
</tr>
<tr>
<td>3</td>
<td><strong>wrist/hand soft tissue</strong></td>
<td>1.25mm x 1.25 mm</td>
<td>standard</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** | 70cc omni 350 / 2cc per second if needed  
| **Scan Delay**                 | 65 seconds  
| **Archiving to MOD**           | Only prospective recons will be archived to mod as done by the scanner.  

**2D/3D Technique Used**  
DMPR of 2mm x 2mm coronal and sagittal wrist/hand series (auto-batch off), average mode, auto-transferred to PACS. Also, there is a 2mm x 2mm true axial reformat if needed due to the patient’s position. For wrist ct with attention to scaphoid: 1mm small foc scaphoid reformats, parallel to the long axis of the scaphoid bone.

**Comments:** Recon 1 is a single thin helical group of the wrist/hand for direct mpr. Recon 2 is the wrist/hand, bone algorithm ct going to PACS. Recon is wrist/hand, standard algorithm ct going to PACS.

**Images required in PACS**  
Scouts, 1.25mm x 1.25mm axial wrist/hand bone, 1.25mm x 1.25mm axial wrist/hand standard, 2mm x 2mm sagittal wrist/hand, 2mm x 2mm coronal wrist/hand, Dose Report

updated Jan 23, 2017