RIH – PANCREATIC MASS CT
GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL

Indications: known or suspected pancreatic mass.

<table>
<thead>
<tr>
<th>Position/Landmark</th>
<th>Head first or feet first-Supine Xyphoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topogram Direction</td>
<td>Craniocaudal</td>
</tr>
<tr>
<td>Respiratory Phase</td>
<td>Inspiration</td>
</tr>
<tr>
<td>Scan Type</td>
<td>Helical</td>
</tr>
<tr>
<td>KV / mA / Rotation time (sec)</td>
<td>120kv / smart mA (100-440) / 0.5 sec</td>
</tr>
<tr>
<td>Pitch / Speed (mm/rotation)</td>
<td>1.375:1 , 27.50mm</td>
</tr>
<tr>
<td>Noise Index / ASiR / Dose Reduction</td>
<td>16 / 30 / 30%</td>
</tr>
<tr>
<td>Detector width x Rows = Beam Collimation</td>
<td>1.25mm x 16 = 20mm</td>
</tr>
<tr>
<td>Average Tube Output</td>
<td>Each Helical: ctdi – 17.1 mGy dlp – 443 mGy.cm</td>
</tr>
</tbody>
</table>

**First Helical Set**
- Slice Thickness/ Spacing: body
- Algorithm: recon
- Recon Destination: non con pancreas
- Thickness/ Spacing: 2.5mm x 2.5mm
- Standard
- Recon Destination: pacs
- For dmpr

**Second Helical Set**
- Slice Thickness/ Spacing: body
- Algorithm: recon
- Recon Destination: arterial pancreas
- Thickness/ Spacing: 2.5mm x 2.5mm
- Standard
- Recon Destination: pacs
- For dmpr

**Third Helical Set**
- Slice Thickness/ Spacing: body
- Algorithm: recon
- Recon Destination: venous pancreas
- Thickness/ Spacing: 2.5mm x 2.5mm
- Standard
- Recon Destination: pacs
- For dmpr

**Scan Delay**
- Non-Contrast: 35 seconds
- Arterial: 70 seconds
- Venous: 70 seconds

**2D/3D Technique Used**
- DMPR of 3mm x 3mm **coronal imaging** of each phase (auto-batch on), average mode, auto-transferred to PACS.

**Scan Start / End Locations**
- DFOV: mid diaphragm
- iliac crest
- 35cm
- Decrease appropriately

<table>
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<tr>
<th>IV Contrast Volume / Type / Rate</th>
<th>100cc omni 350 4cc/sec</th>
</tr>
</thead>
</table>

**Comments:** The patient should have one bottle of volumen and a cup of water 15-20 minutes prior to the scan. An injection rate of less than 4cc/sec compromises this study. If this can’t be used, please consult a radiologist. All phases are tight to the entire abdomen.

**Images required in PACS**
- Scouts, 2.5mm x 2.5mm axial nc pancreas, 3mm x 3mm coronal nc pancreas, 2.5mm x 2.5mm axial arterial pancreas, 3mm x 3mm coronal arterial pancreas, 2.5mm x 2.5mm axial venous pancreas, 3mm x.3mm coronal venous pancreas, Dose Report

updated Jan 23, 2017