

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

**Indications: known or suspected pancreatic mass.**

<b>Position/Landmark</b>	Head first or feet first-Supine Xyphoid			
<b>Topogram Direction</b>	Craniocaudal			
<b>Respiratory Phase</b>	Inspiration			
<b>Scan Type</b>	Helical			
<b>KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction</b>	120kv / smart mA (100-440) / 0.5 sec 1.375:1 , 27.50mm 16 / 30 / 30%			
<b>Detector width x Rows = Beam Collimation</b>	1.25mm x 16 = 20mm			
<b>Average Tube Output</b>	Each Helical: ctdi – 17.1 mGy dlp – 443 mGy.cm			
<b>First Helical Set</b>				
Slice Thickness/ Spacing	recon	body part	thickness/ spacing	recon destination .
Algorithm	1	<b>non con pancreas</b>	2.5mm x 2.5mm	standard pacs
Recon Destination	2	thin nc pancreas	1.25mm x .6mm	standard for dmpr
<b>Second Helical Set</b>				
Slice Thickness/ Spacing	recon	body part	thickness/ spacing	recon destination .
Algorithm	1	<b>arterial pancreas</b>	2.5mm x 2.5mm	standard pacs
Recon Destination	2	thin arterial pancreas	1.25mm x .6mm	standard for dmpr
<b>Third Helical Set</b>				
Slice Thickness/ Spacing	recon	body part	thickness/ spacing	recon destination .
Algorithm	1	<b>venous pancreas</b>	2.5mm x 2.5mm	standard pacs
Recon Destination	2	thin venous pancreas	1.25mm x .6mm	standard for dmpr
<b>Scan Start / End Locations</b>	mid diaphragm iliac crest 35cm			
<b>DFOV</b>	decrease appropriately			
<b>IV Contrast Volume / Type / Rate</b>	100cc omni 350 4cc/sec			
<b>Scan Delay</b>	Non-Contrast		Arterial 35 seconds	Venous 70 seconds
<b>2D/3D Technique Used</b>	DMPR of 3mm x 3mm <b>coronal imaging</b> of each phase (auto-batch on), average mode, auto-transferred to PACS.			
<b>Comments:</b>	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			
<b>Images required in PACS</b>	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			