

RIH – PANCREATIC MASS CT GE LIGHTSPEED VCT PROTOCOL

Indications: known or suspected pancreatic mass; to asses liver mets in the presence of pancreatic mass.

Position/Landmark	Head first or feet first-Supine Xyphoid			
Topogram Direction	Craniocaudal			
Respiratory Phase	Inspiration			
Scan Type	Helical			
KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction	120kv / smart mA (120-500) / 0.5 sec .984:1 , 39.37mm 11.0 / 70 / 20%			
Detector width x Rows = Beam Collimation	0.625mm x 64 = 40mm			
Average Tube Output	1 st /2 nd Helical: ctdi – 11.3mGy dlp – 226 mGy.cm		Third Helical: ctdi – 11.3mGy dlp – 313 mGy.cm	
First Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon	body part	thickness/ spacing	recon destination .
	1	non con pancreas	2.5mm x 2.5mm	standard pacs
	2	thin nc pancreas	.6mm x .6mm	standard for dmpr
Second Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon	body part	thickness/ spacing	recon destination .
	1	arterial pancreas	2.5mm x 2.5mm	standard pacs
	2	thin arterial pancreas	.6mm x .6mm	standard for dmpr
Third Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon	body part	thickness/ spacing	recon destination .
	1	venous abdomen	2.5mm x 2.5mm	standard pacs
	2	thin venous abdomen	.6mm x .6mm	standard for dmpr
Scan Start / End Locations DFOV	non con / arterial mid diaphragm 2cm inferior to pancreas		venous 1cm above diaphragm iliac crest 35cm decrease appropriately	
IV Contrast Volume / Type / Rate	100mL Iohexol (Omnipaque 350) 4mL/sec			
Scan Delay	Non-Contrast		Arterial 35 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.			
Comments:	The patient should have 2 cups (16oz total) of water 10 minutes prior to the scan. All fields of view are tight to the skin. The venous phase is of 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 abdomen, 3mm x 3mm coronal venous abdomen, Dose Report			