

CT Pancreas

GE- 6010

Maximum CTDI 75

Indication: Pancreas mass, chronic pancreatitis, obstructive jaundice

PT Prep: 475 ml of water immediately before getting on the table
IV contrast – Yes, follow MCR contrast dosing guidelines.

Types of Pancreatic Tumors/Indication

Islet Cell Tumors

Gastrinoma

VIPoma

Somatostatinoma

Carcinoid

ACTH tumor

Glucagonoma

Adenocarcinoma

Insulinoma

Series 1: Scouts AP & LAT – Supine “O” at Xiphoid Process S60 to I500

Series 2: **Unenhanced** – Scan from Diaphragm to mid kidneys – utilized to localize pancreas

	750 HD (128) CT2	Optima 660 (32) OVIC	Optima 660 CT1	VCT 64 CT3
Noise Level	18.23	16.40	16.40	16.40
Interval	5 mm	5mm	5mm	5 mm
Axial/Helical Thickness	5mm	5mm	5mm	5 mm
Pitch	0.984:1	1.375:1	0.984:1	0.984:1
Speed mm/rotation	39.37	55	39.37	39.37
Detector Rows				
Detector Configuration				
Beam Collimation	40mm	40 mm	40 mm	40mm
KV/mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA
Scan Type	Helical Full 0.8 sec	Helical Full 0.7 sec	Helical Full 0.8 sec	Helical Full 0.8 sec

Original Date: 4-8-04

Approved by: Dr. Songmen, MCR _____

Revised Date: 11/9/04, 1/11/10, 12/8/10, 11/14/12, 12/15/15, 2/28/18, 07/27/21, 1/30/24

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Series 3: **Arterial Phase** –IV contrast per MCR contrast dosing guidelines @ 3cc/sec.

Delay: 35 seconds – Scan through pancreas (use dry images to localize)

	750 HD (128) CT2	Optima 660 (32) OVIC	Optima 660 CT1	VCT 64 CT3
Noise Level	18.23	15.86	11.21	15.86
Interval	5mm	5 mm	5 mm	5 mm
Axial/Helical Thickness	5 mm	5 mm	5 mm	5 mm
Pitch	0.984:1	0.984:1	0.984:1	0.984:1
Speed mm/rotation	39.37	39.37	39.37	39.37
Detector Rows				
Detector Configuration				
Beam Collimation	40 mm	40 mm	40 mm	40 mm
KV/mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA
Scan Type	Helical Full 0.8 sec	Helical Full 0.8sec	Helical Full 0.8 sec	Helical Full 0.8 sec

Series 4: **Portal Venous Phase**

Delay: 70 seconds – Scan from diaphragm to iliac crest

	750 HD (128) CT2	Optima 660 (32) OVIC	Optima 660 CT1	VCT 64 CT3
Noise Level	18.23	15.86	15.86	15.86
Interval	5 mm	5 mm	5 mm	5 mm
Axial/Helical Thickness	5 mm	5 mm	5 mm	5 mm
Pitch	0.984:1	0.984:1	0.984:1	0.984:1
Speed mm/rotation	39.37	39.37	39.37	39.37
Detector Rows				
Detector Configuration				
Beam Collimation	40 mm	40 mm	40 mm	40 mm
KV/mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA
Scan Type	Helical Full 0.8sec	Helical Full 0.8 sec	Helical Full 0.8 sec	Helical Full 0.8 sec

Networking/ PACs: Send scouts

Send series 2,3,4 Standard Soft Tissue Algorithm

Recon and Venous phase series in Bone Algorithm

Send MPR's all series Soft Tissue Algorithm

Record DLP in PACS comments

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