

RIH – IV CONTRAST CT ENTEROGRAPHY GE LIGHTSPEED VCT PROTOCOL

Indications: study for the evaluation of diseases affecting the mucosa and bowel wall

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	Maximum lateral diameter < 40 cm 100kv / smart mA (120-450) / 0.5 sec .984:1 , 39.37mm 13.0 / 70 / 30%			
KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction	Maximum lateral diameter > 40 cm 120kv / smart mA (120-450) / 0.5 sec .984:1 , 39.37mm 11.5 / 70 / 30%			
KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction	Maximum lateral diameter > 48 cm 140kv / smart mA (120-460) / 0.5 sec .984:1 , 39.37mm 11.5 / 70 / 30%			
Detector width x Rows = Beam Collimation	0.625mm x 64 = 40mm			
Average Tube Output	ctdi – 11.3mGy dlp – 616 mGy.cm			
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon	body part	thickness/ spacing	recon destination .
	1	ct enterography	5mm x 5mm	standard pacs
	2	thin abd/pelvis	.6mm x .6mm	standard for dmpr
Scan Start / End Locations	1 cm superior to diaphragm lesser trochanters 38cm DFOV decrease appropriately			
IV Contrast Volume / Type / Rate	30mL Iohexol (Omnipaque 350) followed by 40mL of saline prior to scouts then 5 minute delay then 100mL Iohexol (Omnipaque 350) , 3mL/sec 55 second scan delay When oral contrast is prescribed, refer to the appropriate oral contrast agent's preparation and procedure guide.			
Scan Delay	55 seconds			
2D/3D Technique Used	DMPR of 5mm x 5mm coronal abdomen/pelvis series (auto-batch on), average mode, auto-transferred to PACS.			
Comments: CT Enterography is a routine iv contrast abdomen/pelvis ct with volumen as the oral contrast agent . The volumen prep is: drink one bottle, establish iv access, – then a second bottle of volumen. The total prep time should be approximately 30 minutes. The patient should also drink 2 cups of water just prior to laying down on the ct table.				
Images required in PACS	Scouts, 5mm x 5mm axial abdomen/pelvis, 5mm x 5mm coronal abdomen/pelvis, Dose Report			