

RIH – ROUTINE CHEST ABDOMEN PELVIS GE LIGHTSPEED VCT PROTOCOL

Indications - mass, metastases, lymphoma, abscess, general screening.

Position/Landmark	Head first or feet first-Supine Sternal Notch			
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 – 10.7mGy dlp – 866 mGy.cm			
Helical Set	body	thickness/ spacing	recon algorithm	recon destination
Slice Thickness/ Spacing	recon part			
Algorithm	1 chest abd pelvis	5mm x 5mm	standard	pacs
Recon Destination	2 thin chest abd pel	.6mm x .6mm	standard	for dmpr
	3 lungs	5mm x 5mm	lung	pacs
Scan Start / End Locations	1cm superior to lung apices 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 When oral contrast is prescribed, refer to the appropriate oral contrast agent's preparation and procedure guide.			
Scan Delay	50 seconds			
2D/3D Technique Used	DMPR of 5mm x 5mm coronal chest, abdomen, pelvis series (auto-batch on), average mode, auto-transferred to PACS.			
Comments: Recon 2 is a single thin helical group of the chest, abdomen, and pelvis for direct mpr.				
Images required in PACS	Scouts, 5mm x 5mm axial chest abdomen pelvis, 5mm x 5mm coronal chest abdomen pelvis, 5mm x 5mm axial lungs, Dose Report			