RIH – CHEST THREE PHASE LIVER PELVIS GE LIGHTSPEED VCT PROTOCOL

Indications- Evaluation for mass, metastases, HCC, cirrhosis, hyper vascular liver lesions

Position/Landmark	Head first or feet first-Supine				
Topogram Direction	Sternal Notch Craniocaudal				
Topogram Direction	Cramocaudai				
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	$0.625 \text{mm} \times 64 = 40 \text{mm}$				
Average Tube Output	1 st /2 nd Helical: ctdi – 11.3 mGy Third Helical: ctdi – 10.7 mGy				
Tricinge Tube Output	1 /2	dlp – 313	•		– 866 mGy.cm
First Helical Set		body	thickness/	шр	recon
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .
Algorithm	1	non con liver	5mm x 5mm	standard	pacs
Recon Destination	2	thin nc liver	.6mm x .6mm	standard	for dmpr
Second Helical Set		body	thickness/		recon
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .
Algorithm	1	arterial liver	5mm x 5mm	standard	pacs
Recon Destination	2	thin arterial liver	.6mm x .6mm	standard	for dmpr
Third Helical Set		body	thickness/		recon
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .
Algorithm Recon Destination		enous chest abd/pe		standard	pacs
Recon Destination	2	thin venous c a p	.6mm x .6mm	standard	for dmpr
	3	lungs	5mm x 5mm	lung	pacs
Scan Start / End Locations	non con / arterial venous				
		1 cm superior to diaphragm 1 cm superior to lung apicies			
DEON	i	iliac crest (scan through entire liver) lesser trochanters			
DFOV	38cm				
	decrease appropriately				
IV Contrast Volume / Type / Rate	100mL Iohexol (Omnipaque 350) 4mL/sec When oral contrast is prescribed, refer to the appropriate oral contrast agent's				
	prepa	ration and procedure			
Scan Delay		Non-Cor			1
2D/2D E 1 : 17 1	Ditt		40 secon		
2D/3D Technique Used		R of 5mm x 5mm co		o-batch on), averag	ge mode, auto-
transferred to PACS of each phase . Comments: The second and third helical sets are two separate groups in series 4 called "arterial/venous chest liver"					
Images required in PACS	Scouts	5mm v 5mm avial r	ne liver 5mm v 5m	ım coronal no livo	or 5mm v 5mm
	Scouts, 5mm x 5mm axial nc liver, 5mm x 5mm coronal nc liver, 5mm x 5mm axial arterial liver, 5mm x 5mm coronal arterial liver, 5mm x 5mm axial venous				
	chest abdomen pelvis, 5mm x 5mm coronal venous chest abdomen pelvis, 5mm				
	x 5mm lungs, Dose Report				
	7 7 HHII	idiigo, Dobe Report			