RIH – MULTI PHASE LIVER SIEMENS DEFINITION AS+ PROTOCOL

Indications: HCC, cirrhosis, hypervascular lesions/mets

Position/Landmark	Head first or feet first-Supine Sternal Notch			
Topogram Direction	Craniocaudal / Craniocaudal			
Respiratory Phase	Inspiration			
Scan Type	Helical			
Ref kV/Ref mAs/Rotation time (sec) Pitch / Speed (mm/rotation) Safire Strength / Dose Optimization	Care kV 120 / Care Dose4D 210 / 0.5 sec .8:1, 32.00mm 3 / 6			
Detector width x Rows = Beam Collimation	0.625 mm x 64 = 40 mm (128 x .6mm)			
Average Tube Output	Each Helical: ctdi – 10.7mGy dlp – 313 mGy.cm			
First Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	body recon part 1 non con liver 2 coronal non con liver 3 thin nc liver	thickness/ spacing 5mm x 5mm	algorithm I40f medium I40f medium I40f medium	recon destination . pacs pacs terarecon
Second Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	body recon part 1 arterial liver 2 coronal arterial liver 3 thin arterial liver	thickness/ spacing 5mm x 5mm	algorithm I40f medium I40f medium I40f medium	recon destination . pacs pacs pacs terarecon
Third Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	body recon part 1 venous liver 2 coronal venous liver 3 thin venous liver	thickness/ spacing 5mm x 5mm 5mm x 5mm	algorithm I40f medium I40f medium I40f medium	recon destination . pacs pacs terarecon
Scan Start / End Locations	1 cm superior to diaphragm iliac crest (scan through entire liver)			
DFOV	38cm decrease appropriately			
IV Contrast Volume / Type / Rate	100mL Iohexol (Omnipaque 300) 4mL/sec			
Scan Delay	Non-Contrast Arterial Venous 40 seconds 70 seconds			
2D/3D Technique Used	Workstream 4D mpr of 5mm x 5mm coronal liver series, auto-transferred to PACS of each phase .			
Comments: Recon 3 is a thin helical volume of the liver that is archived to the TeraRecon server.				
Images required in PACSTopograms, 5mm x 5mm axial nc liver, 5mm x 5mm coronal nc liver, 5mm x5mm axial arterial liver, 5mm x 5mm coronal arterial liver, 5mm x 5mm axial venous liver, 5mm x 5mm coronal venous liver, Patient Protocol				