

RIH – NECK CHEST ABDOMEN PELVIS GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL

Indications: mass, lymphoma, metastases, staging of cancer

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	120kv / smart mA (100-440) / 0.5sec 1.375:1 , 27.5mm 19.00(neck) / 20 / 20% 24.00(chest abd pelvis) / 30 / 30%				
Detector width x Rows = Beam Collimation	1.25mm x 16 = 20mm				
Average Tube Output	First Helical: ctdi – 9.7mGy dlp – 295.6 mGy.cm		Second Helical: ctdi – 13.0mGy dlp – 897 mGy.cm		
First Helical Set					recon
Slice Thickness/ Spacing	recon	body part	thickness/ spacing	algorithm	recon destination .
Algorithm	1	neck	2.5mm x 2.5mm	standard	pacs
Recon Destination	2	thin neck	1.2mm x .6mm	standard	for dmpr
Second Helical Set					recon
Slice Thickness/ Spacing	recon	body part	thickness/ spacing	algorithm	recon destination .
Algorithm	1	chest abd pelvis	5mm x 5mm	standard	pacs
Recon Destination	2	thin chest abd pelvis	1.25mm x .6mm	standard	for dmpr
	3	lung	5mm x 5mm	lung	pacs
Scan Start / End Locations	neck external auditory meatus aortic arch 18cm		chest abdomen pelvis 1 cm superior to lung apices lesser trochanters 38cm		
DFOV	decrease appropriately				
IV Contrast Volume / Type / Rate	Pre-scan contrast: 30cc omni 350 2cc/sec Wait a minimum of 5 minutes Helical scan contrast: 100cc omni 350 3cc/sec				
Scan Delay	30 seconds				
2D/3D Technique Used	DMPR of 3mm x 3mm coronal neck series (auto-batch on), average mode, auto-transferred to PACS DMPR of 5mm x 5mm coronal chest, abdomen, pelvis series (auto-batch on), average mode, auto-transferred to PACS.				
Comments:	The recon 1 in each helical group is thin of the neck and chest abdomen, pelvis for direct mpr. The second recons are 2.5mm x 2.5mm neck and 5mm x 5mm chest, abdomen, pelvis, standard algorithm, going to PACS. Recon 3 is the 5mm x 5mm lung algorithm going to PACS.				
Images required in PACS	Scouts, 2.5mm x 2.5mm axial neck, 3mm x 3mm coronal neck, 5mm x 5mm axial chest abdomen pelvis, 5mm x 5mm coronal chest abdomen pelvis, 5mm x 5mm axial lungs, Dose Report				