RIH - PARATHYROID 4D NECK GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL

Indication: For localization of parathyroid adenoma

Position/Landmark	Head first or feet first-Supine			
	Sternal Notch			
Topogram Direction	Craniocaudal			
Respiratory Phase	Inspiration			
Scan Type	Helical			
KV / mA / Rotation time (sec)	120kv / smart mA (100-450) / 0.5 sec			
Pitch / Speed (mm/rotation)	1.375:1, 27.50mm			
Noise Index / ASiR / Dose Reduction	17.0 / 20 / 20%			
Detector width x Rows = Beam Collimation	1.25mm x 16 = 20mm			
Average Tube Output (each scan)	ctdi – 10.7mGy			
	dlp – 915.6 mGy.cm			
First – Third Helical Sets	body	thickness/		recon
Slice Thickness/ Spacing	recon part	spacing	algorithm	destination.
Algorithm Recon Destination	1 thin dynamic neck	1.2mm x .6mm	standard	for dmpr
	three groups: 0 seconds, 45 seconds, 75 seconds			
Scan Start / End Locations	external auditory meatus			
	mid heart			
	20cm			
DFOV	decrease appropriately			
IV Contrast Volume / Type / Rate	100mL Iohexol (Omnipaque 350), 3mL/sec			
Scan Delay	45 seconds			
2D/3D Technique Used	DMPR of 3mm x 3mm axial and coronal of each phase of recon 1 auto transferred to PACS. Auto-batch is on for all 6 sets of reformats.			
Comments: Recon 1 is three helical gimages of each series and send them seconds(late arterial), 75 seconds(per Start the iv contrast injection after the iv injection in the arm opposite study that indicates the area of pos	to PACS. This protocol reperfusion), after iv contrast injure the non-contrast series (0 of the patient's symptoms sible adenoma.	eats the same scan o ection. seconds) is comple s. The patient usual	f the neck at 0 s ted. Place the lly has had a ne	econds, 45 angiocath for
The multiple phases are used to deter	mme me peak ennancement	i oi a paratnyroid ad	епоша.	

Scouts, 2.5mm x 2.5mm axial and coronal 0 seconds, 2.5mm x 2.5mm axial and coronal 45 seconds, 2.5mm x 2.5mm axial and coronal 75 seconds,

Dose Report

Images required in PACS