RIH – PITUITARY GLAND GE LIGHTSPEED VCT PROTOCOL

Indications: Patient with contraindication to MR. Suspected or known pituitary mass.

Position/Landmark	Supine head first or feet first				
	Zero at outer canthus of eye.				
Topogram Direction	Craniocaudal				
Respiratory Phase	Any				
Scan Type	Helical				
KV / mA / Rotation time (sec)	120kv / smart mA (50-350) / 0.5 sec				
Pitch / Speed (mm/rotation)	0.531:1, 10.62mm				
Noise Index / ASiR / Dose Reduction	6.5 / 20 / 20%				
Detector width x Rows = Beam Collimation	0.625mm x $32 = 20$ mm				
Average Tube Output	Each Helical: ctdi – 51.1 mGy				
	dlp – 872 mGy.cm				
First Helical Set		body	thickness/		recon
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .
Algorithm	1	thin brain	.6mm x .6mm	standard	dmpr
Recon Destination	2	skull	5mm x 5mm	bone	pacs
Second Helical Set		body	thickness/		recon
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .
Algorithm Recon Destination	1 c	ontrast head data	a set .6mm x .6mm	standard	for dmpr
Scan Start / End Locations	1cm inferior to skull				
	skull vertex 25cm				
DFOV	decrease appropriately				
IV Contrast Volume / Type / Rate	80mL Iohexol (Omnipaque 350), 2mL/sec				
Scan Delay	70 seconds				
2D/3D Technique Used	non con: dmpr 5mm x 5mm axial brain reformats in the glabello-meatal plane (auto-batch off), average mode, auto transferred to PACS				
	There are four dmpr reformats from the contrast helical data set: 5mm x 5mm contrast axial brain (auto-batch off), 1mm x 1mm axial pituitary (auto-batch off), 1mm x 1mm coronal pituitary (auto-batch off), 1mm x 1mm sagittal pituitary (auto-batch off)				
Comments: A non-contrast brain is de contrast helical set will set up direct n	one first.	. Then a helical	contrast enhanced head		Recon 1 of the
Images required in PACS	Scouts, 5mm x 5mm axial nc brain, 5mm x 5mm contrast axial brain, 1mm x				
mugo require in 1 100	1mm axial pituitary, 1mm x 1mm coronal pituitary, 1mm x 1mm sagittal pituitary, Dose Report				