RIH – DBS BRAIN CT GE LIGHTSPEED VCT PROTOCOL

Application: For deep brain stimulator surgical planning.

Position/Landmark	Supine head first or feet first				
Topogram Direction	Zero at outer canthus of eye. Craniocaudal				
Topogram Direction	Cramocaudai				
Respiratory Phase	Any				
Scan Type	Helical				
KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction	120kv / smart mA (50-210) / 0.7 sec 0.531:1 , 10.62mm 7.0 / 30 / 30%				
Detector width x Rows = Beam Collimation	$0.625 \text{mm} \times 32 = 20 \text{mm}$				
Average Tube Output	ctdi – 35.0 mGy dlp – 600 mGy.cm				
Helical Set		body	thickness/		recon
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .
Algorithm Recon Destination	1 thin 2	n non angled brain thin skull	.6mm x .6mm	standard bone	for dmpr/cd/pacs dmpr
	2	umi skun	X IIIII 0. X	bone	umpi
Scan Start / End Locations	1cm inferior to chin				
	1cm superior to skull vertex				
	25cm				
DFOV	decrease appropriately				
IV Contrast Volume / Type / Rate				•	
Scan Delay					
2D/3D Technique Used	DMPR 5mm x 5mm axial brain reformats in the glabello-meatal plane (auto-batch off), average mode, auto transferred to PACS				
	DMPR 5mm x 5mm coronal brain reformats perpendicular to the glabellomeatal plane (auto-batch off), average mode, auto transferred to PACS				
	DMPR 1.2mm x 1.2mm coronal brain reformats perpendicular to the glabello-meatal plane (auto-batch off), average mode, auto transferred to PACS				
	DMPR 5mm x 5mm axial skull reformats in the glabello-meatal plane (autobatch off), average mode, auto transferred to PACS				
Comments: Recon 1 is a thin non an helical set of the skull for reformats i	-		r reformats in the	desired plane	e. Recon 2 is a thin
Recon 1 is also sent to the workstation	n so a cd	of the data set can b	e made for the new	urosurgeon.	
Images required in PACS	Scouts, .6mm x .6mm axial brain, 5mm x 5mm axial brain, 1.2mm x 1.2mm coronal brain, 5mm x 5mm coronal brain, 5mm x 5mm axial skull, Dose Report				