RIH – HELICAL HEAD CT VIEWING WAND GE LIGHTSPEED VCT PROTOCOL

Indications: This ct is performed to provide source data to the BrainLab surgical navigation system in the operating room.

Position/Landmark		Supine head first or feet first				
T	Zero at outer canthus of eye.					
Topogram Direction	Craniocaudal					
Respiratory Phase	Any					
Scan Type	Helical					
KV / mA / Rotation time (sec)	120kv / smart mA (50-210) / 0.7 sec					
Pitch / Speed (mm/rotation)	0.531:1, 10.62mm					
Noise Index / ASiR / Dose Reduction	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 – 680 mGy.cm				
Helical Set		body	thickness/		recon	
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .	
Algorithm	1	thin brain	.6 mm x .6 mm	standard	dmpr	
Recon Destination	2	thin skull	.6 mm x .6 mm	bone	dmpr	
	3	for navigation	1.2 mm x 1.2 mm	standard	pacs	
Scan Start / End Locations	1cm inferior to chin					
	1cm superior to skull vertex					
DFOV						
Drov	25cm					
	decrease appropriately					
IV Contrast Volume / Type / Rate						
Scan Delay						
2D/2D Tachnique Ugad	<i>5</i>	. F ordal and	aananal huain uafauu	ata atandanda	la a widhan in	
2D/3D Technique Used	5mm x 5mm axial and coronal brain reformats, standard algorithm in					
	respect to the glabello-meatal plane (auto-batch off), average mode, auto transferred to PACS					
	5mm x 5mm axial skull reformats in the glabello-meatal plane (auto-batch					
	off), average mode, auto transferred to PACS					
Comments: Recon 1 is a thin helical	set of th	e brain for reform	ats in the desired plane	e. Recon 2 is a t	hin helical set of	
the skull for reformats in the desired			-			
Images required in PACS	Scouts, 5mm x 5mm axial brain, 5mm x 5mm coronal brain, 5mm x 5mm					
	axial skull, 1.2mm x 1.2mm data set for navigation, Dose Report					