

RIH - CAROTID CT ANGIOGRAM GE LIGHTSPEED VCT PROTOCOL

Indications: carotid artery stenosis, aneurysm, dissection

Position/Landmark	Head first or feet first-Supine Sternal Notch				
Topogram Direction	Craniocaudal				
Respiratory Phase	Suspension				
Scan Type	Helical				
KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction	120kv / smart mA (100-450) / 0.5 sec 1.375:1 , 55.00mm 10.0 / 20 / 20%				
Detector width x Rows = Beam Collimation	0.625mm x 64 = 40mm				
Average Tube Output	ctdi – 10.7mGy dlp – 305.6 mGy.cm				
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	<u>recon</u>	<u>body part</u>	<u>thickness/ spacing</u>	<u>algorithm</u>	<u>recon destination</u>
	1	carotid cta	2.5mm x 2.5mm	standard	pacs
	2	thin carotids	.6mm x .6mm	soft	for dmpr
Scan Start / End Locations DFOV	aortic arch through circle of willis 18cm decrease appropriately				
IV Contrast Volume / Type / Rate	80mL Iohexol (Omnipaque 350) , 4mL/sec				
Scan Delay	Smart Prep at aortic arch				
Archiving to MOD	Only prospective recons will be archived to mod as done by the scanner.				
2D/3D Technique Used	Sagittal/oblique and coronal reformats , 2.0mm x 2.0mm, mip mode using DMPR. (auto-batch off), average mode, auto-transferred to PACS				
Comments:	Recon 2 is a thin soft algorithm for reformats. Sagittal/oblique and coronal reformats, 2.0mm x 2.0mm, mip mode using DMPR are routine for this protocol. The sagittal/oblique carotids should also include the vertebral artery.				
Images required in PACS	Scouts, 2.5mm x 2.5mm axial carotid cta, 2mm x 2mm left sagittal/oblique carotid mips, 2mm x 2mm right sagittal/oblique carotid mips, 2mm x 2mm coronal carotid mips, Dose Report				