RIH – NECK CTA, CHEST ABDOMEN PELVIS RUN OFF GE LIGHTSPEED VCT PROTOCOL

Position/Landmark		Н	ead first - Supine Ste	ernal Notch	
Topogram Direction	Craniocaudal				
Respiratory Phase	Inspiration				
Scan Type	Helical				
KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction	120kv / smart mA (100-550) / 0.7 sec 1.375:1, 55.00mm 9.0 / 30 / 30%				
Detector width x Rows = Beam Collimation	$0.625 \text{mm} \times 64 = 40 \text{mm}$				
Average Tube Output	ctdi – 15.3mGy dlp – 1848 mGy.cm				
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon 1 2 3	body part total body thin body thin body	thickness/ spacing 2.5mm x 2.5mm .6mm x .6mm .6mm x .6mm	algorithm standard soft bone	recon destination . pacs for mpr for mpr
Scan Start / End Locations DFOV	2cm superior to sella tursica through the feet 38cm decrease appropriately				
IV Contrast Volume / Type / Rate	80mL Iohexol (Omnipaque 350) / 3mL per second 15mL saline / 3mL per second start monitoring scans at this point 100mL Iohexol (Omnipaque 350) / 4mL per second 40mL saline / 4mL per second				
Scan Delay	smart prep at aortic arch, the trigger is +200 HU				
2D/3D Technique Used	From Recon2: 2mm x 2mm left sagittal/oblique carotid, 2mm x 2mm right sagittal/oblique carotid, 2mm x 2mm coronal carotids, 2mm x 2mm axial small fov carotids, 5mm x 5mm coronal chest abdomen pelvis, 3mm x 3mm coronal lower extremities. Recon 3 is a thin bone volume incase spines are ordered.				
Comments: 80cc of contrast is pre in immediately after the first injection i 1. Perform pre-monitoring scan 2. Inject the 80mL Iohexol (On 3. As soon as the power injector	s comple at the ao nnipaque	ted to perform a rtic arch, Place (350) pre-scan c	smart prepped total bo the ROI in the arch ontrast	dy ct angiogran	n.

3. As soon as the power injector hold begins, inject the CTA contrast and begin the monitoring phase/smart prep ct angiogram.

The noise index is lowered to 9.0 and the max mA is raised to 550 because the patient is typically scanned with arms down.

Images required in PACS	Scouts, 2.5mm x 2.5mm axial total body, 2mm x 2mm left sagittal/oblique
	carotid, 2mm x 2mm right sagittal/oblique carotid, 2mm x 2mm coronal
	carotids, 2mm x 2mm axial small fov carotids, 5mm x 5mm coronal chest
	abdomen pelvis, 5mm x 5mm axial lungs, 3mm x 3mm coronal lower
	extremities, Dose Report