# RIH - ROUTINE NECK
# GE LIGHTSPEED VCT PROTOCOL

**Indications - mass, lymphoma, adenopathy, mets.**

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|---|---|
| **Position/Landmark** | Head first or feet first-Supine<br>Sternal Notch |
| **Topogram Direction** | Craniocaudal |
| **Respiratory Phase** | Suspension |
| **Scan Type** | Helical |
| **KV / mA / Rotation time (sec)**<br>**Pitch / Speed (mm/rotation)**<br>**Noise Index / ASiR / Dose Reduction** | 120kv / smart mA (100-450) / 0.5 sec<br>1.375:1 , 55.00mm<br>10.0 / 20 / 20% |
| **Detector width x Rows = Beam Collimation** | 0.625mm x 64 = 40mm |
| **Average Tube Output** | ctdi – 10.7mGy<br>dlp – 305.6 mGy.cm |
| **Helical Set**<br>Slice Thickness/ Spacing<br>Algorithm<br>Recon Destination | recon 1: body part **neck**; thickness/spacing 2.5mm x 2.5mm; algorithm standard; recon destination pacs<br>recon 2: body part thin neck; thickness/spacing .6mm x .6mm; algorithm standard; recon destination for dmpr |
| **Scan Start / End Locations**<br><br>**DFOV** | external auditory meatus<br>aortic arch<br><br>18cm<br>decrease appropriately |
| **IV Contrast Volume / Type / Rate** | 70mL Iohexol (Omnipaque 350) , 2mL/sec if needed |
| **Scan Delay** | 35 seconds |
| **2D/3D Technique Used** | DMPR of 3mm x 3mm **coronal neck** series (auto-batch on), average mode, auto-transferred to PACS |
| **Comments:**. Recon 1 is the 2.5mm x 2.5mm neck standard algorithm ct going to PACS. Recon 2 is a single thin helical group of the neck for direct mpr | |
| **Images required in PACS** | Scouts, 2.5mm x 2.5mm axial neck, 3mm x 3mm coronal neck, Dose Report |

updated Jan 23, 2017