# RIH – CT MANDIBLE PANOREX
# GE LIGHTSPEED VCT PROTOCOL

### Application:  dental evaluation of mandible fracture

| | |
|---|---|
| **Position/Landmark** | Supine head first or feet first<br>Zero at outer canthus of eye. |
| **Topogram Direction** | Craniocaudal |
| **Respiratory Phase** | Any |
| **Scan Type** | Helical |
| **KV / mA / Rotation time (sec)**<br>**Pitch / Speed (mm/rotation)**<br>**Noise Index / ASiR / Dose Reduction** | 120kv / smart mA (50-330) / 0.4 sec<br>0.98:1 , 39.37<br>10 / 20 / 20% |
| **Detector width x Rows = Beam Collimation** | 0.625mm x 64 = 40mm |
| **Average Tube Output** | ctdi – 4.5 mGy<br>dlp – 75 mGy.cm |
| **Helical Set**<br>Slice Thickness/ Spacing<br>Algorithm<br>Recon Destination | recon   part   thickness/ spacing   algorithm   recon destination .<br>1   **mandible bone**   2.5mm x 2.5mm   bone   pacs<br>2   thin mandible   .6mm x .6mm   bone   for dmpr, terarecon |
| **Scan Start / End Locations**<br><br><br>**DFOV** | 2 cm superior to the tmj<br>1cm inferior from the chin<br>18cm<br>decrease appropriately |
| **IV Contrast Volume / Type / Rate** | |
| **Scan Delay** | |
| **2D/3D Technique Used** | DMPR of **2.5mm x 2.5mm coronal mandible** series (auto-batch off), average mode, auto transferred to PACS |
| **Comments:**  Recon 2 is a thin bone algorithm for reformats and TeraRecon. A panorex image and a 3d image of the mandible should be created in TeraRecon and sent to pacs. | |
| **Images required in PACS** | Scouts, 2.5mm x 2.5mm axial mandible bone, 2.5mm x 2.5mm coronal mandible bone, panorex image, 3d of mandible image, Dose  Report |

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- Right click thin data, select Open ThinClient
- Select CPR
- Select Create Mode
- Adjust Window/Level and Symmetry
- Drop curve points by Control Left Click
- Hit Smooth CPR Line button
- Select Review Mode
- Turn Axial into 3D VR by Right Click
- Hit Output then Review to bring up 3D options
- Go to Slab and check off Slab and Half Space
- Turn Visible CrossSection Line off
- Mouse Wheel down 3D until all of mandible is visible
- Turn Visible CrossSection Line on and adjust curve points on the 3D with Control Left Click, if needed
- Turn Visible CrossSection Line off
- Pan/Zoom 3D and capture it by hitting C
- Window/Level and Pan/Zoom Panorex and capture it by hitting C key
- Go to Output Tab
- Select DICOM Server
- Select GEPACS, hit OK



updated Jan 23, 2017