

## RII - FACE / ORBITS / SINUS GE LIGHTSPEED VCT PROTOCOL

**Application: fracture, tumor, cellulitis, sinusitis**

<b>Position/Landmark</b>	Supine head first or feet first Zero at outer canthus of eye.			
<b>Topogram Direction</b>	Craniocaudal			
<b>Respiratory Phase</b>	Any			
<b>Scan Type</b>	Helical			
<b>KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction</b>	120kv / smart mA (50-330) / 0.5 sec 1.375:1 , 55.00mm 10 / 20 / 20%			
<b>Detector width x Rows = Beam Collimation</b>	0.625mm x 64 = 40mm			
<b>Average Tube Output</b>	ctdi – 8.3 mGy dlp – 185 mGy.cm			
<b>Helical Set</b> Slice Thickness/ Spacing Algorithm Recon Destination	body part	thickness/ spacing	algorithm	recon destination
	1 <b>face orbit sinus bone</b>	2.5mm x 2.5mm	bone+	pac
	2 thin face orbit sinus	.6mm x .6mm	bone+	for dmpr
	3 <b>face orbit sinus std</b>	2.5mm x 2.5mm	standard	pac
<b>Scan Start / End Locations</b>  <b>DFOV</b>	<b>Sinus:</b> 1cm inferior from the maxilla <b>Face:</b> 1cm inferior from the chin 1 cm superior to the frontal sinuses 25cm decrease appropriately			
<b>IV Contrast Volume / Type / Rate</b>	70mL Iohexol (Omnipaque 350) / 2mL per second hand or power inject, if required			
<b>Scan Delay</b>	50 seconds			
<b>2D/3D Technique Used</b>	DMPR of <b>3mm x 3mm coronal</b> series (auto-batch off), average mode, auto transferred to PACS  For mandible ct: 3mm x 3mm sagittal-oblique series parallel to the right and left mandibular body, average mode, auto transferred to PACS			
<b>Comments:</b>	This protocol is the routine for all face, sinus, and orbit studies. Recon 2 is a thin bone algorithm for reformats. Coronal reformats, 3.0mm x 3mm, average mode are routine for this protocol. Use a symmetrical sagittal image as the reformat reference image. The coronal plane is perpendicular to the hard palate.			
<b>Images required in PACS</b>	Scouts, 2.5mm x 2.5mm sharp axial face/sinus, 2.5mm x 2.5mm standard axial face/sinus, 3mm x 3mm sharp coronal face/sinus, Dose Report  For mandible ct: 3mm x 3mm sagittal-oblique series parallel to the right and left mandibular body			