

**RIH – FACE / ORBITS / SINUS  
SIEMENS DEFINITION AS20 PROTOCOL**

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

<b>Position/Landmark</b>	Supine head first or feet first 1cm superior to skull vertex																									
<b>Topogram Direction</b>	Craniocaudal / Craniocaudal																									
<b>Respiratory Phase</b>	Any																									
<b>Scan Type</b>	Helical																									
<b>Ref kV/Ref mAs/Rotation time (sec) Pitch / Speed (mm/rotation) Safire Strength / Dose Optimization</b>	Care kV 120 / Care Dose4D 100 / 1.0 sec .8:1 , 10.00mm 2 / 3																									
<b>Detector width x Rows = Beam Collimation</b>	0.625mm x 20 = 12.5mm																									
<b>Average Tube Output</b>	ctdi – 8.3 mGy dlp – 185 mGy.cm																									
<b>Helical Set</b> Slice Thickness/ Spacing Algorithm Recon Destination	<table border="1"> <thead> <tr> <th>recon</th> <th>body part</th> <th>thickness/ spacing</th> <th>algorithm</th> <th>recon destination</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>axial face soft tissue</td> <td>3mm x 3mm</td> <td>I40s medium</td> <td>pac</td> </tr> <tr> <td>2</td> <td>axial face bone</td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>3</td> <td>coronal face bone</td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>4</td> <td>thin face</td> <td>.75mm x .7mm</td> <td>I70h very sharp</td> <td>terarecon</td> </tr> </tbody> </table>	recon	body part	thickness/ spacing	algorithm	recon destination	1	axial face soft tissue	3mm x 3mm	I40s medium	pac	2	axial face bone	3mm x 3mm	I70h very sharp	pac	3	coronal face bone	3mm x 3mm	I70h very sharp	pac	4	thin face	.75mm x .7mm	I70h very sharp	terarecon
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<b>Scan Start / End Locations</b>  <b>DFOV</b>	<p><b>Sinus:</b> 1cm inferior from the maxilla <b>Face:</b> 1cm inferior from the chin 1 cm superior to the frontal sinuses</p> <p>25cm decrease appropriately</p>																									
<b>IV Contrast Volume / Type / Rate</b>	70mL Iohexol (Omnipaque 300) / 2mL per second hand or power inject, if required																									
<b>Scan Delay</b>	50 seconds																									
<b>2D/3D Technique Used</b>	Workstream 4d mpr 3mm x 3mm <b>coronal face</b> , auto transferred to PACS																									
<p><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, 3mm 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.</p> <p><b>Do not alter the pitch setting of this protocol.</b></p>																										
<b>Images required in PACS</b>	Topograms , 3mm x 3mm sharp axial face/sinus, 3mm x 3mm standard axial face/sinus, 3mm x 3mm sharp coronal face/sinus, Patient Protocol																									