## RIH – PEDI FACE / ORBITS / SINUS
### SIEMENS DEFINITION AS20 PROTOCOL

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

| Position/Landmark | Supine head first or feet first  
|                  | 1cm superior to skull vertex |
| Topogram Direction | Craniocaudal / Craniocaudal |
| Respiratory Phase | Any |
| Scan Type | Helical |
| Ref kV/Ref mAs/Rotation time (sec) | Care kV 120 / Care Dose4D 50 / 1.0 sec  
| Pitch / Speed (mm/rotation) | .8:1 , 10.00mm  
| Safire Strength / Dose Optimization | 2 / non contrast  
|                     | 5 contrast 7  
| Detector width x Rows = Beam Collimation | 0.625mm x 20 = 12.5mm |
| Average Tube Output | ctdi – 6.3 mGy  
|                   | dlp – 125 mGy.cm |
| Helical Set | body thickness/  
| Slice Thickness/ Spacing | recon part spacing algorithm destination  
| Algorithm | recon  
| Recon Destination | part spacing algorithm destination  
| 1 | axial face soft tissue  
| Slice Thickness/ Spacing | 3mm x 3mm  
| Algorithm | 140s medium  
| Recon Destination | pacs  
| 2 | axial face bone  
| Slice Thickness/ Spacing | 3mm x 3mm  
| Algorithm | 170h very sharp  
| Recon Destination | pacs  
| 3 | coronal face bone  
| Slice Thickness/ Spacing | 3mm x 3mm  
| Algorithm | 170h very sharp  
| Recon Destination | pacs  
| 4 | thin face  
| Slice Thickness/ Spacing | .75mm x .7mm  
| Algorithm | 170h very sharp  
| Recon Destination | terarecon |
| Scan Start / End Locations | Sinus: 1cm inferior from the maxilla  
| Face: 1cm inferior from the chin  
| 1 cm superior to the frontal sinuses |
| DFOV | 25cm decrease appropriately |
| IV Contrast Volume / Type / Rate | Contrast volume is 1cc per pound of body weight  
| Omniraque300 / 2cc per second  
| or hand injection if necessary |
| Scan Delay | 50 seconds |
| 2D/3D Technique Used | Workstream 4d mpr 3mm x 3mm coronal face,  
| auto transferred to PACS |

**Comments:** 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.

**Do not alter the pitch setting of this protocol.**

**Images required in PACS**

| Topograms , 3mm x 3mm sharp axial face/sinus, 3mm x 3mm standard axial face/sinus, 3mm x 3mm sharp coronal face/sinus, Patient Protocol |

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