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

Application: fracture, tumor, cellulitis, sinusitis

| Position/Landmark   |  | Supine head first or feet first   |              |                 |                |  |
|---|--|---|--------------|-----------------|----------------|--|
| Topogram Direction  |  | 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<br>Collimation   |  | 0.625mm x 20 = 12.5mm   |              |                 |                |  |
| Average Tube Output   |  | ctdi - 6.3 mGy  |              |                 |                |  |
|   |  | dlp – 125 mGy.cm  |              |                 |                |  |
| Helical Set   |  | body  | thickness/   |                 | recon          |  |
| Slice Thickness/ Spacing  | reco   |   | spacing      | algorithm       | destination .  |  |
| Algorithm   |  | axial face soft tissue  | 3mm x 3mm    | I40s medium     | pacs           |  |
| Recon Destination   | 2  | axial face bone   | 3mm x 3mm    | I70h very sharp | pacs           |  |
|   | 3  | coronal face bone   | 3mm x 3mm    | I70h very sharp | pacs           |  |
|   | 4  | thin face   | .75mm x .7mm | I70h very sharp | terarecon      |  |
| Scan Start / End Locations  | Sinus: 1cm inferior from the maxilla  Face: 1cm inferior from the chin |   |              |                 |                |  |
|   |  |   |              |                 |                |  |
| DEON  |  | 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 Omnipaque300 / 2cc per second |              |                 |                |  |
|   |  |   |              |                 |                |  |
|   |  |   |              |                 |                |  |
| C DI  |  | or hand injection if necessary  |              |                 |                |  |
| Scan Delay  |  | 50 seconds  |              |                 |                |  |
| 2D/3D Technique Used  | Wor  | Workstream 4d mpr 3mm x 3mm <b>coronal face</b> ,                             |              |                 |                |  |
| 1.00  | auto transferred to PACS   |   |              |                 |                |  |
|   |  |   |              |                 |                |  |
| <b>Comments:</b> This protocol is the rout  |  |   |              |                 |                |  |
| reformats. Coronal reformats, 3mm x   |  |   |              |                 | rical sagittal |  |
| image as the reformat reference image. The coronal plane is perpendicular to the hard palate. |  |   |              |                 |                |  |
|   |  |   |              |                 |                |  |
|   | _  | _   |              |                 |                |  |
| Do not alter the pitch setting of thi   |  |   |              |                 |                |  |
| Images required in PACS   | _  | Topograms, 3mm x 3mm sharp axial face/sinus, 3mm x 3mm standard axial         |              |                 |                |  |
|   | face   | face/sinus, 3mm x 3mm sharp coronal face/sinus, Patient Protocol              |              |                 |                |  |
|   |  |   |              |                 |                |  |