RIH – HELICAL ADULT BRAIN SIEMENS DEFINITION AS+ PROTOCOL

Indications: Non contrast: cva, intracranial bleed, mental status change, trauma, hydrocephalus.

Contrast: suspicion of mass, known primary brain lesion, metastases

| 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) | Caro kV 120 / Caro Doso/D 250 / 0.5 soc |
| Pitch / Sneed (mm/rotation) | 7.1 8 75mm |
| Safire Strength / Dose Ontimization | 1/2 |
| | 1/3 |
| Detector width x Rows = Beam | $0.625 \text{mm} \ge 20 = 12.5 \text{mm}$ |
| Commation | (40 x .6mm) |
| Average Tube Output | ctdi - 35.0 mGy |
| | dlp – 600 mGy.cm |
| Helical Set | body thickness/ recon |
| Slice Thickness/ Spacing | recon part spacing algorithm destination. |
| Algorithm | 1 thick helical brain 5mm x 5mm J40f medium |
| Recon Destination | 2 axial brain reformat 5mm x 5mm J40f medium pacs |
| | 3 axial skull reformat 5mm x 5mm H60f sharp pacs |
| | 4 coronal brain reformat 5mm x 5mm J40f medium pacs |
| | 5 thin brain .75mm x .7mm J40f medium terarecon |
| Scan Start / End Locations | 1cm inferior to skull base |
| | 1cm superior to skull vertex |
| | 25cm |
| DFOV | decrease appropriately |
| IV Contrast Volume / Type / Rate | 100mL Iohexol (Omnipaque 350), 1.5mL/sec |
| | if needed |
| Scan Delay | minimum of 2 minutes |
| | |
| 2D/3D Technique Used | Workstream 4d mpr 5mm x 5mm axial brain reformats in the glabello- |
| | meatal plane, auto transferred to PACS |
| | Workstream 4d mpr 5mm x 5mm axial skull reformats in the glabello- |
| | meatal plane, auto transferred to PACS |
| | Workstream 4d mpr 5mm x 5mm coronal brain reformats perpendicular to |
| | the glabello-meatal plane, auto transferred to PACS |
| Comments: Since this study is comprised of all mpr's. Recon 1 is used only to acquire data. Recons 2-4 are | |
| workstream 4d reformats for pacs. Recon 5 is thin image data to terarecon. | |
| | |
| Do not alter the pitch setting of this protocol. | |
| Images required in PACS | Topograms, 5mm x 5mm axial brain, 5mm x 5mm coronal brain, 5mm x |
| | 5mm axial skull, Patient Protocol |