

**RIH – ACUTE STROKE BRAIN
SIEMENS DEFINITION AS+ PROTOCOL**

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) Pitch / Speed (mm/rotation) Safire Strength / Dose Optimization	Care kV 120 / Care Dose4D 250 / 0.5 sec .7:1 , 8.75mm 1 / 3																																													
Detector width x Rows = Beam Collimation	0.625mm x 20 = 12.5mm (40 x .6mm)																																													
Average Tube Output	ctdi – 35.0 mGy dlp – 600 mGy.cm																																													
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	<table border="1"> <thead> <tr> <th></th> <th>body part</th> <th>thickness/ spacing</th> <th>algorithm</th> <th>recon destination</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>thick helical brain</td> <td>5mm x 5mm</td> <td>J40f medium</td> <td></td> </tr> <tr> <td>2</td> <td>axial brain reformat</td> <td>5mm x 5mm</td> <td>J40f medium</td> <td>pac</td> </tr> <tr> <td>3</td> <td>axial skull reformat</td> <td>5mm x 5mm</td> <td>H60f sharp</td> <td>pac</td> </tr> <tr> <td>4</td> <td>axial brain mip</td> <td>5mm x 5mm</td> <td>J40f medium</td> <td>pac</td> </tr> <tr> <td>5</td> <td>axial brain mip</td> <td>10mm x 5mm</td> <td>J40f medium</td> <td>pac</td> </tr> <tr> <td>6</td> <td>axial brain mip</td> <td>1mm x 1mm</td> <td>J40f medium</td> <td>pac</td> </tr> <tr> <td>7</td> <td>coronal brain reformat</td> <td>5mm x 5mm</td> <td>J40f medium</td> <td>pac</td> </tr> <tr> <td>8</td> <td>thin brain</td> <td>.75mm x .7mm</td> <td>J40f medium</td> <td>terarecon</td> </tr> </tbody> </table>		body part	thickness/ spacing	algorithm	recon destination	1	thick helical brain	5mm x 5mm	J40f medium		2	axial brain reformat	5mm x 5mm	J40f medium	pac	3	axial skull reformat	5mm x 5mm	H60f sharp	pac	4	axial brain mip	5mm x 5mm	J40f medium	pac	5	axial brain mip	10mm x 5mm	J40f medium	pac	6	axial brain mip	1mm x 1mm	J40f medium	pac	7	coronal brain reformat	5mm x 5mm	J40f medium	pac	8	thin brain	.75mm x .7mm	J40f medium	terarecon
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Scan Start / End Locations DFOV	1cm inferior to skull base 1cm superior to skull vertex 25cm decrease appropriately																																													
2D/3D Technique Used	5mm x 5mm axial brain reformats in the glabello-meatal plane (auto-batch off), average mode, auto transferred to PACS 5mm x 5mm coronal brain reformats perpendicular to the glabello-meatal plane (auto-batch off), average mode, auto transferred to PACS 5mm x 5mm axial brain MIP reformats in the glabello-meatal plane (auto-batch off), average mode, auto transferred to PACS 10mm x 5mm axial brain MIP reformats in the glabello-meatal plane (auto-batch off), average mode, auto transferred to PACS 5mm x 5mm axial skull reformats in the glabello-meatal plane (auto-batch off), average mode, auto transferred to PACS 1mm x 1mm axial brain MIP reformats in the glabello-meatal plane (auto-batch on), average mode, auto transferred to PACS																																													
Comments: Since this study is comprised of all mpr's, Recon 1 is used only to acquire data. Recons 2-7 are workstream 4d reformats for pac. Recon 8 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 brain mip, 10mm x 5mm axial brain mip, 5mm x 5mm axial skull, 1mm x 1mm axial brain mip, Patient Protocol																																													