## RIH – HELICAL ADULT BRAIN SIEMENS DEFINITION AS20 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	
T. D. ()	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 250 / 0.5 sec	
Pitch / Speed (mm/rotation) Sofire Strength / Dogo Optimization	.7:1 , 8.75mm	
Safire Strength / Dose Optimization	1/3	
Detector width x Rows = Beam Collimation	$0.625 \text{mm} \times 20 = 12.5 \text{mm}$	
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 mediu	ım
Recon Destination	2 <b>axial brain reformat</b> 5mm x 5mm J40f mediu	m pacs
	3 <b>axial skull reformat</b> 5mm x 5mm H60f sharp	pacs
	4 <b>coronal brain reformat</b> 5mm x 5mm J40f mediu	m pacs
	5 thin brain .75mm x .7mm J40f mediu	m terarecon
Scan Start / End Locations	1cm inferior to skull base	
	1cm superior to skull vertex	
DEON	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 <b>coronal brain reformats</b> 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	
	Jilili axiai skuii, Fauciii Fiolocoi	