RIH – HELICAL SURGICAL/3D HEAD SIEMENS DEFINITION AS20 PROTOCOL

Indications: This ct is performed to for pre-surgical planning of cranio-facial reconstruction.

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 250 / 0.5 sec
Pitch / Speed (mm/rotation)	.7:1 , 8.75mm
Safire Strength / Dose Optimization	1/3
Detector width x Rows = Beam Collimation	0.625mm x $20 = 12.5$ mm
Average Tube Output	ctdi – 35.0 mGy
	dlp – 650 mGy.cm
Helical Set	body thickness/ recon
Slice Thickness/ Spacing	recon part spacing algorithm destination.
Algorithm	1 thick helical brain/face 5mm x 5mm J40f medium
Recon Destination	2 axial brain reformat 5mm x 5mm J40f medium pacs
	3 coronal brain reformat 5mm x 5mm J40f medium pacs
	4 1mm true axial face skull 5mm x 5mm H60f sharp pacs
	5 1mm true coronal face skull 5mm x 5mm H60f sharp pacs
	6 1mm true sagittal face skull 5mm x 5mm H60f sharp pacs
Scan Start / End Locations	7 1mm straight axial face skull 1mm x 1mm H60f sharp pacs/terarecon 1cm inferior to chin
Scan Start / End Locations	1 cm superior to skull vertex
	25cm
DFOV	decrease appropriately
IV Contrast Volume / Type / Rate	
Scan Delay	
2D/3D Technique Used	5mm x 5mm axial and coronal brain reformats, standard algorithm in
	respect to the glabello-meatal plane (auto-batch off), average mode, auto transferred to PACS
	1mm x 1mm axial, sagittal, and coronal face/skull reformats, bone algorithm, in respect to the skull floor plane (auto-batch off), average mode,
	auto transferred to PACS
	3d head tumble and spin.
Comments: Since this study is compr	ised of all mpr's, Recon 1 is used only to acquire data. Recons 2-6 are
workstream 4d reformats for pacs. Recon 7 is thin pre-op planning 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, 1mm x 1mm axial, sagittal, and coronal face/skull reformats, bone algorithm, 1mm x
	1mm prosthetic implant planning data set, 3d head tumble and spin, Patient
	Protocol