RIH – PEDI TEMPORAL BONES
SIEMENS DEFINITION AS20 PROTOCOL

Application: Cholesteatoma, Hearing Loss, Fracture, Mastoiditis

Position/Landmark	Head first or feet first-Supine 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 200 / 1.0 sec .8:1 , 5mm 3 / 5
Detector width x Rows = Beam Collimation	0.625mm x 10 = 6.25mm
Average Tube Output	ctdi – 30.0 mGy dlp – 372 mGy.cm
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	body thickness/ recon recon part spacing algorithm destination . 1 **bilat axial temp bones** 3mm x 3mm J40s medium pacs 2 left temporal bone .6mm x .3mm J70h very sharp mpr 3 right temporal bone .6mm x .3mm J70h very sharp mpr
Scan Start / End Locations **DFOV**	1cm inferior to mastoid tip 1cm superior to petrous bones bilat temp bones: 20 cm unilat temp bone: 10cm DO NOT decrease the unilateral fields of view
IV Contrast Volume / Type / Rate	Contrast volume is 1cc per pound of body weight Omnipaque300 / 1.5cc per second or hand injection if necessary
Scan Delay	65 seconds
2D/3D Technique Used	DMPR: **axial and coronal reformats** 0.7 mm x 0.7mm, average mode, from recons 2 and 3.
Comments: Recon 1 is bilateral standard algorithm temporal bones. Recon 2 is a bone algorithm targeted at the left side. Recon 3 is a bone algorithm targeted at the right side. Coronal and axial reformats, 0.7mm x 0.7mm, average mode from recons 2 and 3 are routine for this protocol. The patient's head should be positioned as symmetrical as possible. The fields of view for the unilateral temporal bones should remain at 10 cm. **Mastoiditis: The adult patient mastoidits protocol is this protocol with iv contrast.**	
Images required in PACS	Topograms, 3mm x 3mm standard bilat temporal bones, .7mm x .7mm sharp axial left temporal bone, .7mm x .7mm sharp axial right temporal bone, .7mm x .7mm sharp coronal left temporal bone, .7mm x .7mm sharp coronal right temporal bone, Patient Protocol

updated Jan 23, 2017