

**RIH – TEMPORAL BONES
SIEMENS DEFINITION AS+ 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 240 / 1.0 sec .8:1 , 3.8mm 3 / 3																				
Detector width x Rows = Beam Collimation	0.625mm x 8 = 4.8mm (16 x .6mm)																				
Average Tube Output	ctdi – 51.1 mGy dlp – 472 mGy.cm																				
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	<table border="1"> <thead> <tr> <th>recon</th> <th>body part</th> <th>thickness/ spacing</th> <th>algorithm</th> <th>recon destination</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>bilat axial temp bones</td> <td>3mm x 3mm</td> <td>J40s medium</td> <td>pacs</td> </tr> <tr> <td>2</td> <td>left temporal bone</td> <td>.6mm x .3mm</td> <td>J70h very sharp</td> <td>mpr</td> </tr> <tr> <td>3</td> <td>right temporal bone</td> <td>.6mm x .3mm</td> <td>J70h very sharp</td> <td>mpr</td> </tr> </tbody> </table>	recon	body part	thickness/ spacing	algorithm	recon 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
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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	70mL Iohexol (Omnipaque 350), 2mL/sec or hand inject if needed																				
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.																				
<p>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.</p> <p>Mastoiditis: The adult patient mastoiditis protocol is this protocol with iv contrast.</p>																					
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																				