## INNER EAR MALFORMATIONS: MAKING WAY THROUGH THE LABYRINTH

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## LEARNING OBJECTIVES To synthesize an easy-to-remember Imaging Approach to Inner Ear malformations (IEM) To establish confident and reproducible parameters for evaluation of IEM on CT/MR

MALFORMATIONS

H. Stapes Footplate

I. Facial Nerve

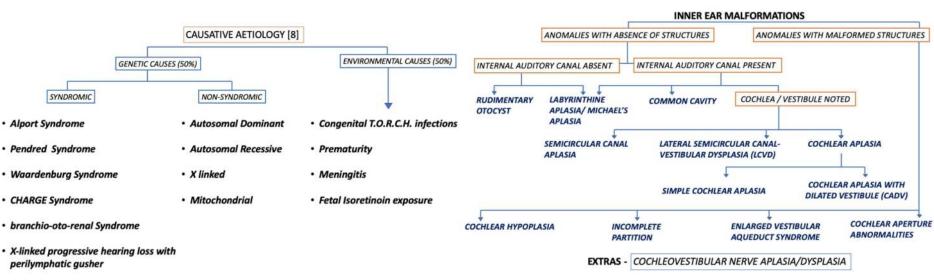
J. Cochleo-Vestibular Nerve

**FIXED** 

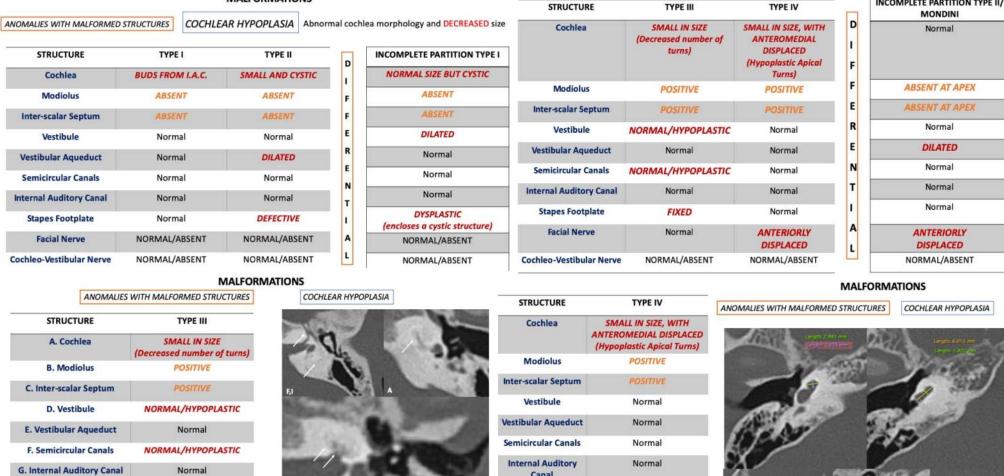
Normal

NORMAL/ABSENT

 To differentiate between difficult imaging differentials like Cochlear Hypoplasia Type IV vs Incomplete Partition Type II, Cochlear Hypoplasia Type II vs Incomplete Partition Type I, Common Cavity vs Cochlear Aplasia with Dilated Vestibule.

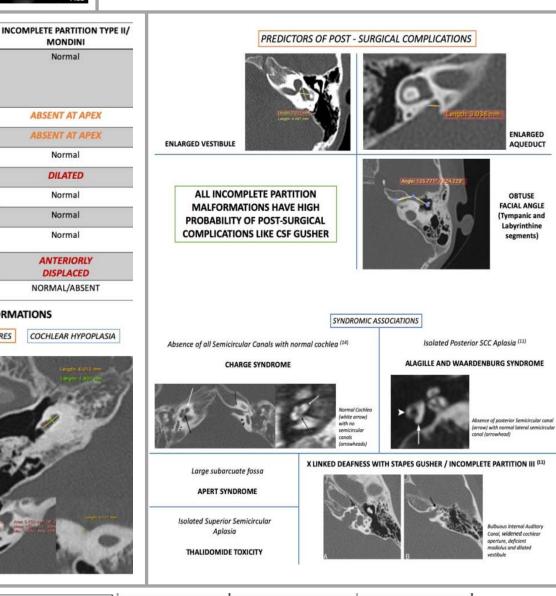






Canal Stapes Footplate

Type B: Labyrinth normal



Normal/Absent

Normal/Absen

Cochleo-Vestibular Nerve

	RIGHT	LEFT	Foot Plate of Stapes	INNER EAR		
1		C+600000	()201021021022200	1 0000000000000000000000000000000000000	Vestibular Aqueduct	
c Membrane			Joints- Incudo-malleal	Cochlea - Dimensions	Cochlear Aqueduct	
transmitted to			Incudo-stapedial	Location in relation to IAC		
ourse			Facial Receis	Location in relation to IAC	Internal Auditory Canal- Present/Absent	
Caliber			Facial Recess	No. of Turns	Trestro, rosen.	
Marphology			Sinus Tympani	Basal turn width	Width	
on countries in			Mastoid Air cells-	Modiolus	Facial Nerve Course -	
analization			Grade of Pneumatization	Interscalar Septum	THE PROPERTY COURT	
ear cavity size			Type of Pneumatization	Description and Control Control	Relation to Cochlea	
anum			TOTAL SHANNERS SHANNE	Aperture width	Angle between tympanic and	
00000 / 40000 000			Aditus Patent?	Vestibule	labyrinthine segments	
npanum			Korner's Septum seen?	tateral Semicircular Canal-	Cochleo-vestibular nerves	
panum				Normal/Dilated	Cochieo-vestibular nerves	
es - Density			Tegmen Tympani	Area of Bony Island within	Carotid canal	
			Tegmen Mastoideum		Caronicana	
Integrity				Ampula of semi-circular canal	Augular Bulb	
Outline			Sinodural Plate	Posterior Semicircular Canal	0.5000000	
e of Stapes			Round and Oval Window	Superior Semicircular Canal	Sigmoid Sinus	

NORMAL/ABSENT