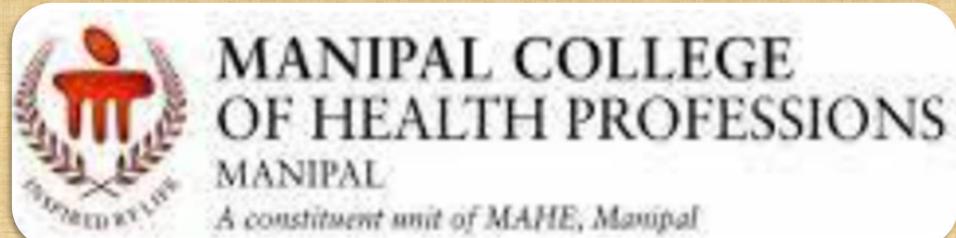
Audiological profile of Ramsay Hunt Syndrome: A Case Study

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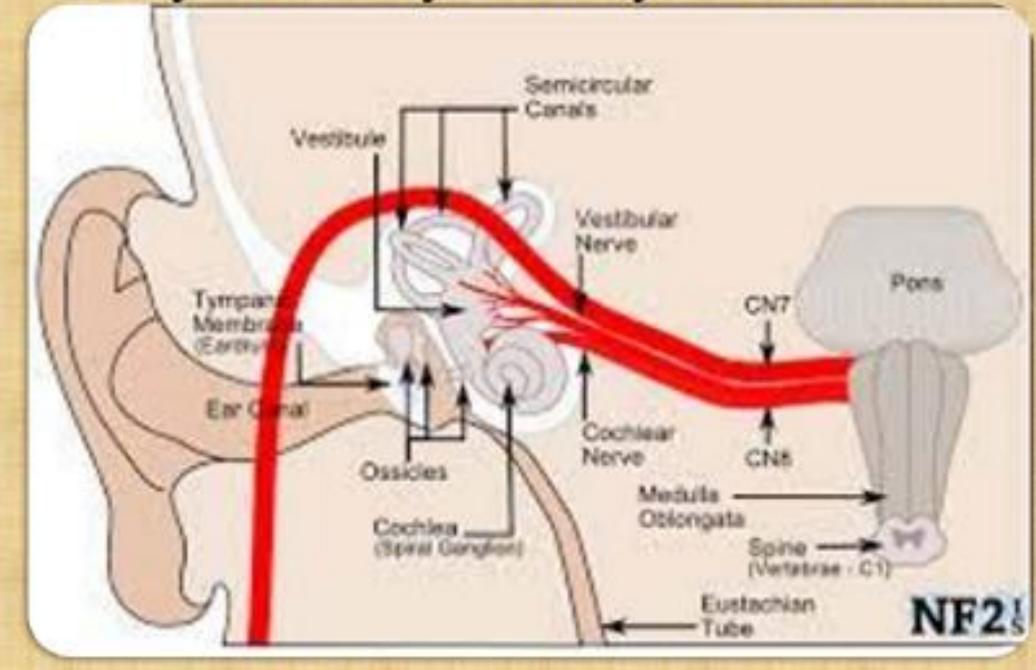






Introduction:

- Spread of varicella-zoster virus causes herpes zoster oticus in the ear.
- Herpes Zoster Oticus + Facial nerve
 Palsy= Ramsay Hunt syndrome



- Prevalence: 5 per 100,000
- Triad symptoms: Ipsilateral otalgia, facial paralysis, and vesicular rash.
- Tinnitus, hearing loss, and vertigo.

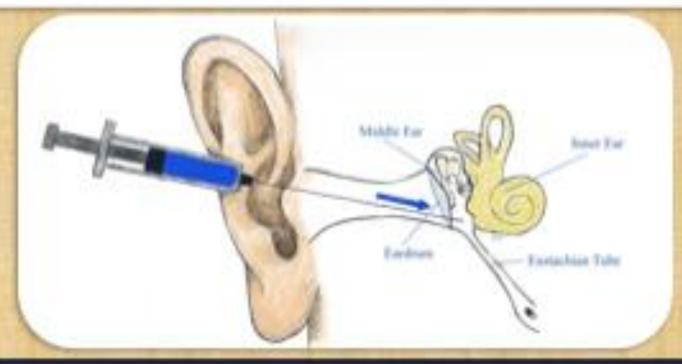
 (VIII CN involvement)

Aim:

To profile the audiological characteristics of Ramsay Hunt Syndrome.

Case History:

Demographic details	Name: XYZ Age/G: 31/female C/O Reduced hearing in right ear for 3-4 days K/C/O Ramsay Hunt syndrome		
Presenting Complaint:			
Difficult hearing situations:	1. Telephone 2. Noise		
Ent Findings:	Mild weakness of right orbicularis oris. FN palsy (Housebrackmann Grade I) Otoscopy: R: i. Tympanic membrane, Grade 1 retraction ii. Black scabs in conchal bowl. L: Tympanic membrane intact. Medical management by ENT: i. 4 Dexamethasone intratympanic steroid injections. ii. Tab. Valacyclovir (Antiviral)		
Tinnitus:	+ For 3-4 days, continuous in nature		
Dizziness	+ For 2 days, 2 episodes encountered.		
Ear Pain:	+ For 3-4 days		
Medical history	No significant medical history		



Method

Assessments:				
Subjective	¥	Objective		
Pure tone audiometry		Auditory brainstem response		
Speech audiometry		Otoacoustic emmision		
		Tympanometry		
		Acoustic Reflexes		
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Results:

(Right ear findings)

I. Subjective assessments

	1st test	2 nd test	3 rd test	4 th test
	(18/10)	(28/10)	(24/11)	(8/12)
PTA	65	75	63.33	60
SRT	60	70	70	70
SDS	95	100	100	100
UCL	>100	>100	>100	>100

II. Objective assessments

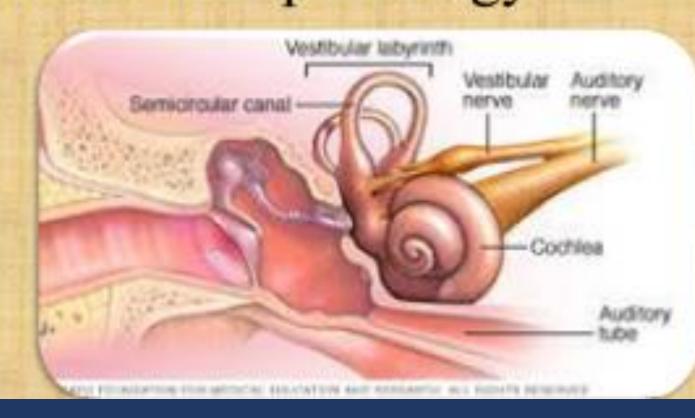
Test	Findings		
ABR	No observable peaks at 80dBnHL		
OAE	TEOAE and DPOAE absent		
Tympanometry	B/L 'A' type tympanogram		
Acoustic	 28/10 – Right ipsi and contra 		
reflexes	reflexes absent		
	 8/12 – Right ipsi reflexes 		
	present contra reflexes		
	absent		

Discussion:

I. Pathophysiology in varicella zoster virus

Can cause:

- 1.Cochlear pathology and/or
- 2.Retro-cochlear pathology



II. Improvement in thresholds

Frequency specific comparison of AC thresholds:

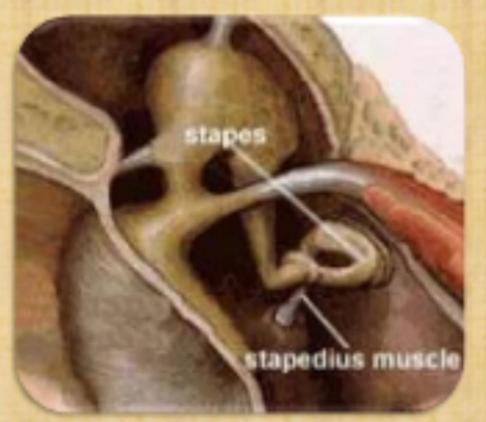
	1st test	2 nd test	3 rd test	4th test
	(18/10)	(28/10)	(24/11)	(8/12)
1kHz	65	75	65	55
2kHz	70	70	65	65
4kHz	85	95	85	65
8kHz	85	80	95	65

 Average of 10dB improvement in mid- high frequencies.



III. Acoustic reflex thresholds

 Resolving of the facial nerve palsy may have restored the acoustic reflexes.



IV. Cochlear Vs Retro-cochlear pathology

- The use of steroid therapy may have restored cochlear function.
- Vestibular function restored.



Conclusion:

- Clinical entity causing sudden unilateral sensorineural hearing loss
- Timely evaluation, appropriate test battery is crucial in the prognosis of the condition.

References:

