

IDENTIFICATION OF CHILDREN WITH HEARING IMPAIRMENT IN ILOILO CITY

Jenelyn J. Magno, MD





High Risk Registry

A pgar score < 5 in 5 minutes
B acterial meningitis
C ongenital infection (TORCH)
D efects of head and neck
E levated bilirubin level



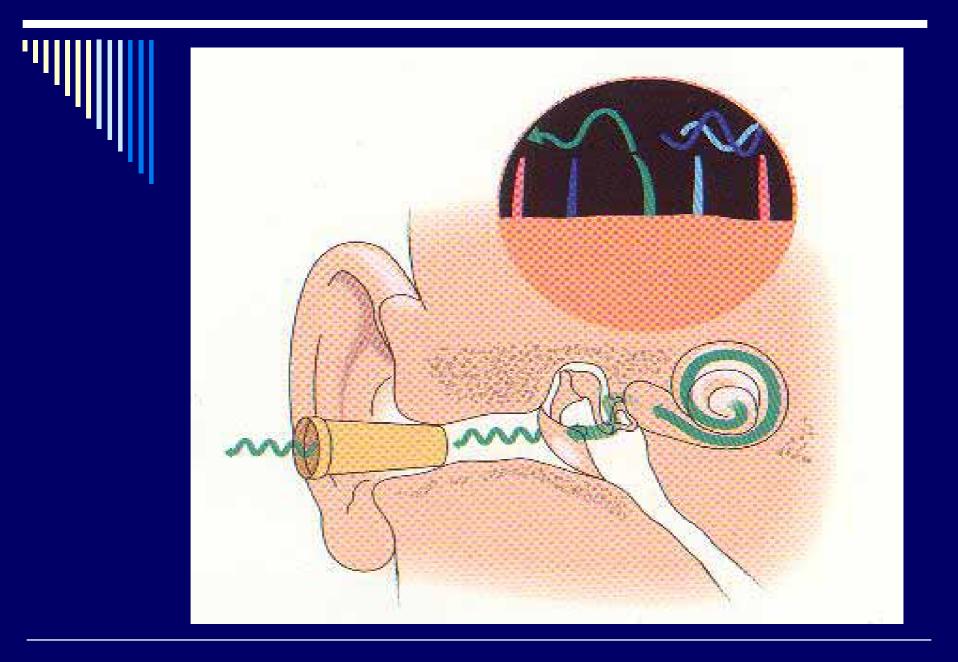
F amily history G ram weight < 1500grams H istory of NICU enrollment I ntake of ototoxic drugs

Auditory Milestones

Age (in months)	Description
0 - 3	-startles at a loud sound or noise -stops moving or crying when you call
3 - 6	- turns head or move eyes to a familiar sound
6 - 10	- responds to his/her own voice

Auditory Milestones

Age (in months)	Description
10 - 15	-Repeats simple words and sounds you make
15 - 18	- Understand simple phrases and can point to body parts
18 - 24	- should have at least 150 spoken vocabulary



Otoacoustic Emissions

Sounds generated by the cochlea that can be measured in the external auditory canal

Produced by the motile activity of the outer hair cells

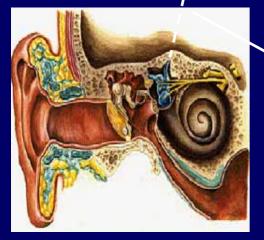


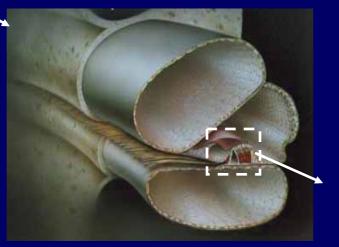




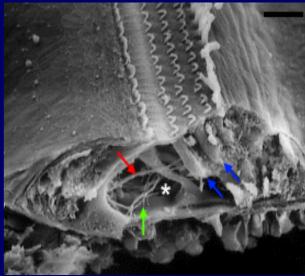
The Ear

Cross-section of the cochlea

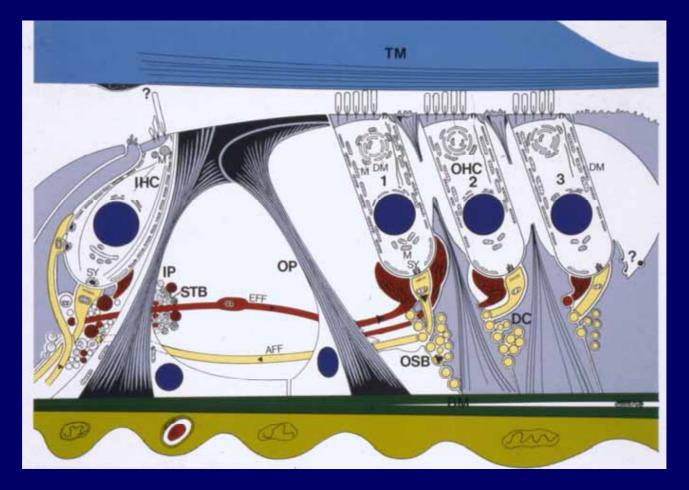


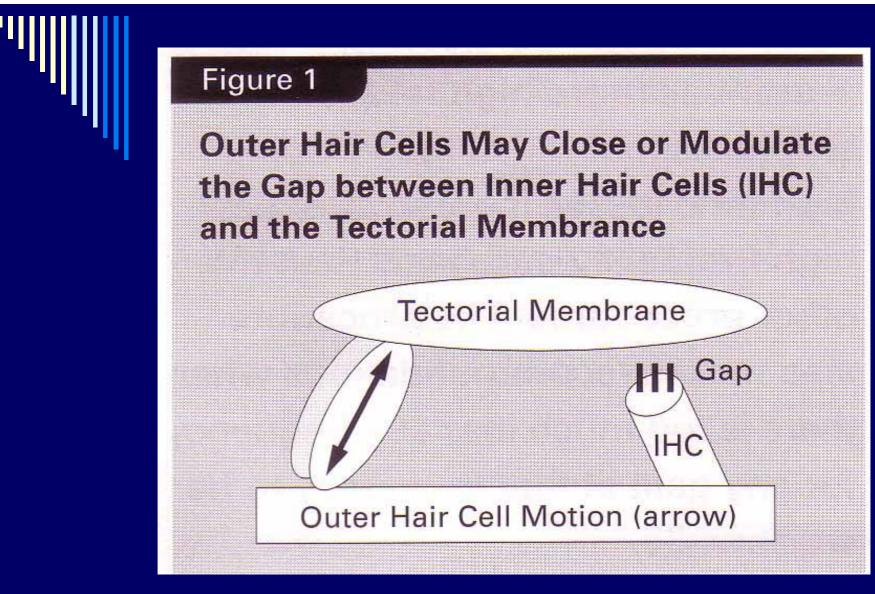


Organ of Corti



INNER AND OUTER HAIR CELLS





Berlin (1999)



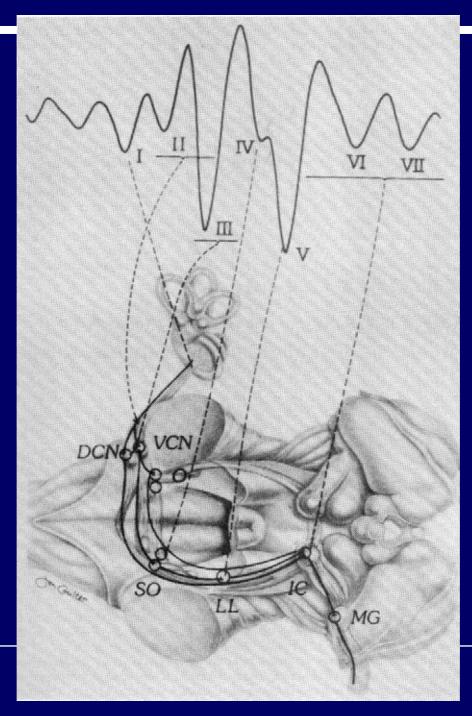


No. of Px.		Result	
Male Female		Refer Pass	
6	3	6	3









NEURAL GENERATORS

- I. Distal part of the 8th nerve
- II. Proximal part
- III. Cochlear Nucleus
- IV. Cochlear Nucleus, Superior Olivary Complex, Lateral Lemniscus





No. of Px.		Result		
Male	Female	Normal	Abnormal	
3	1	3	1	









Total	Male	Female	OM	IC	FB	Perf
356	146	210	4	93	1	3









Cabatuan

Total	Impacted	OM
20	3	1

Normal	Mild	Moderate	Severe	Profound
8	1	3	2	3

Maasin

''''

Total	Impacted	OE	OM
64	6	4	18

Normal	Mild	Moderate	Severe	Profound
13	5	10	6	5



What about him?



Problems

Availability of newborn hearing screening tools

- otoacoustic emissions
- automated auditory brainstem response
- 2. Cost of a newborn hearing screening
- 3. Availability of management options
 - hearing aids, cochlear implants
 - subsequent speech and language therapy
- 4. Information campaign about the newborn hearing screening









