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Audiology Grand Rounds:

A Week at Henry Ford Hospital

Day 2: Pediatrics



Henry Ford Health System: The Institution



- Founded in 1915 by Henry Ford
- Over 18,000 employees
- 1,200 Medical Group Members
- 6 hospitals
- 25 outpatient centers
- Over 3.1 million outpatient visits annually
- Over 15,000 appointment slots per day
- 17 audiologists at 4 sites



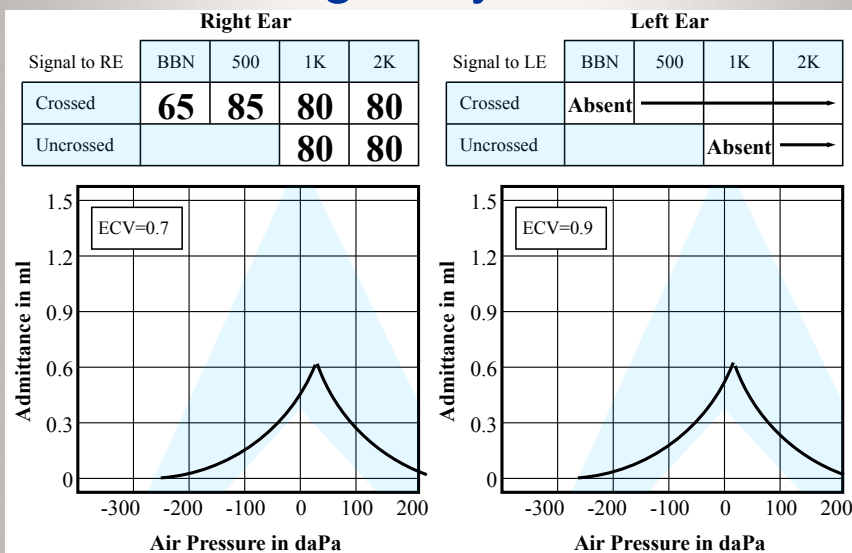
Report of a Case

Case: A

- Age: 8 years Sex: Male
- History:
 - Noticed a left hearing loss at age 4
 - Unremarkable birth and childhood history
 - Recently diagnosed with ADHD
 - Receives preferential seating at school
 - Some disequilibrium
 - Mother is concerned about speech development

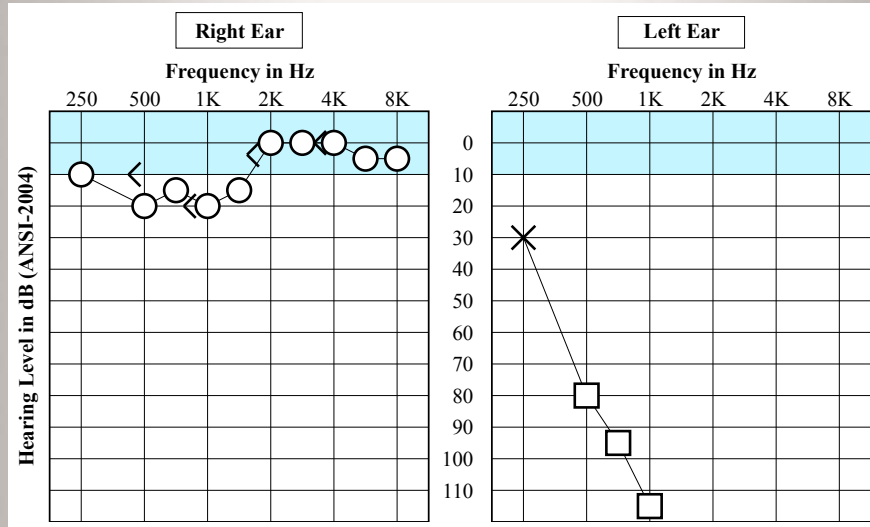


Case: A Age: 8 years Male



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Case: A Age: 8 years Male



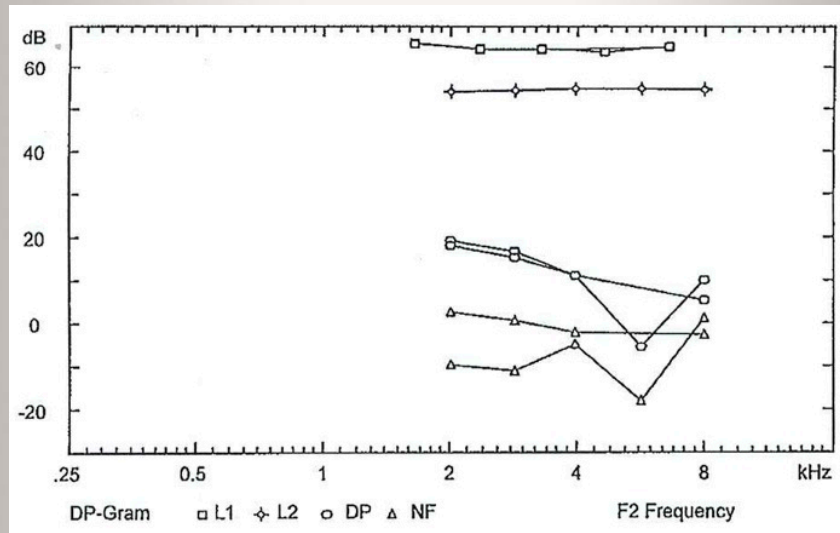
Case: A Age: 8 years Male

Word-Recognition Scores

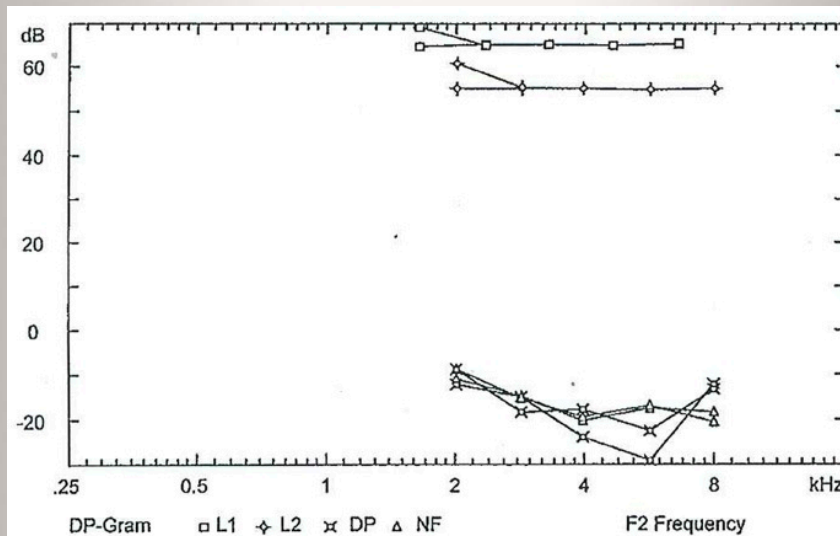
Right		Level	Left	
90	%	80 HL	CNT	%
	%	70 HL		%

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Case: A Right OAEs



Case: A Left OAEs



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Disposition

Case: A

- Idiopathic unilateral sensorineural hearing loss
- ENT discussed options including:
 - CROS hearing aid
 - Baha
 - SoundBite



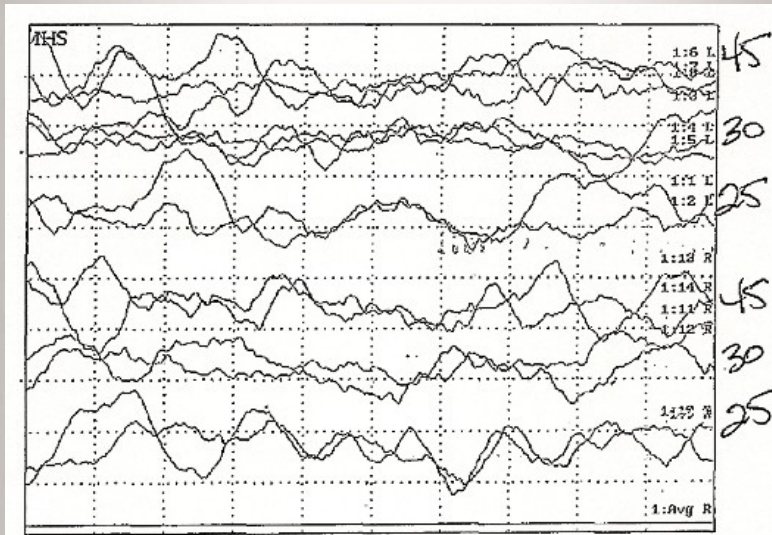
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Case: B

- S: B1 Female
- S: B2 Male
- Age: 2 months at the time of assessment
- Uneventful pregnancy and birth
- Brief stay in ICN
- Failed newborn screening bilaterally

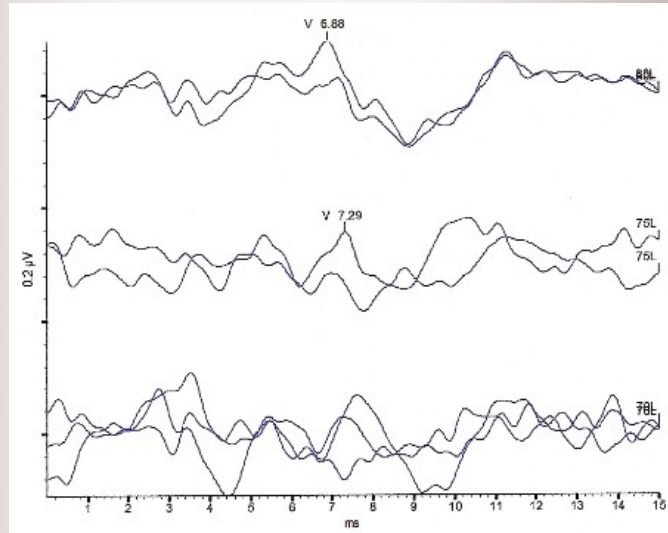


Case: B1 Age: 1 day Female



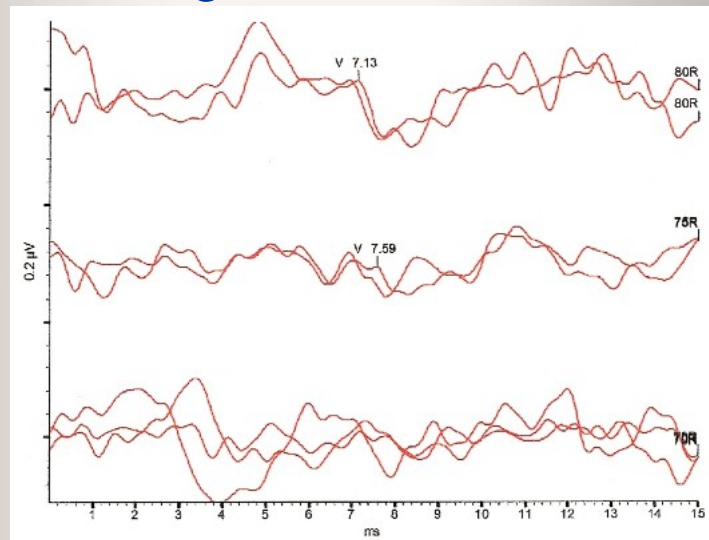
Case: B1 Age: 2 mo Female

Left
Click
ABR



Case: B1 Age: 2 mo Female

Right
Click
ABR



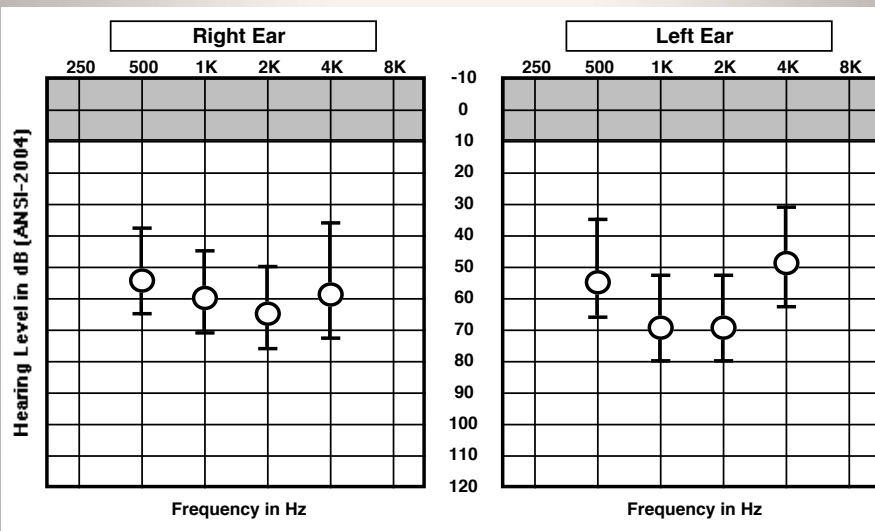
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Case: B1 Age 2 mo Female

- ABR thresholds to 75 dB nHL bilaterally
- No ABR response to bone conduction
- Type A tympanograms
- OAEs absent bilaterally



Case: B1 Age: 2 mo ASSR



Case: B2

Age: 1 day

Male

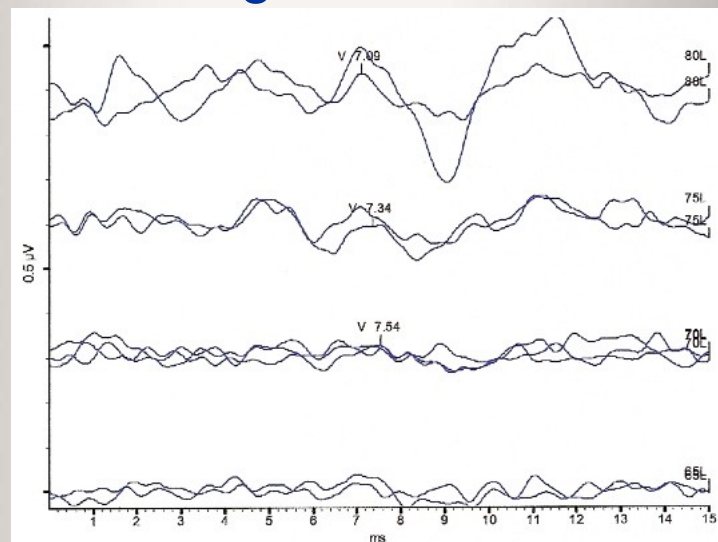


Case: B2

Age: 2 mo

Male

Left
Click
ABR



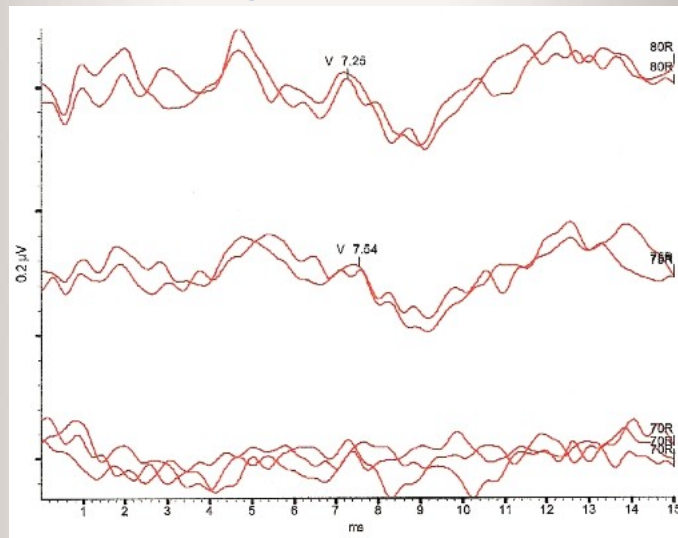
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Case: B2

Age: 2 mo

Male

Right
Click
ABR



Case: B2

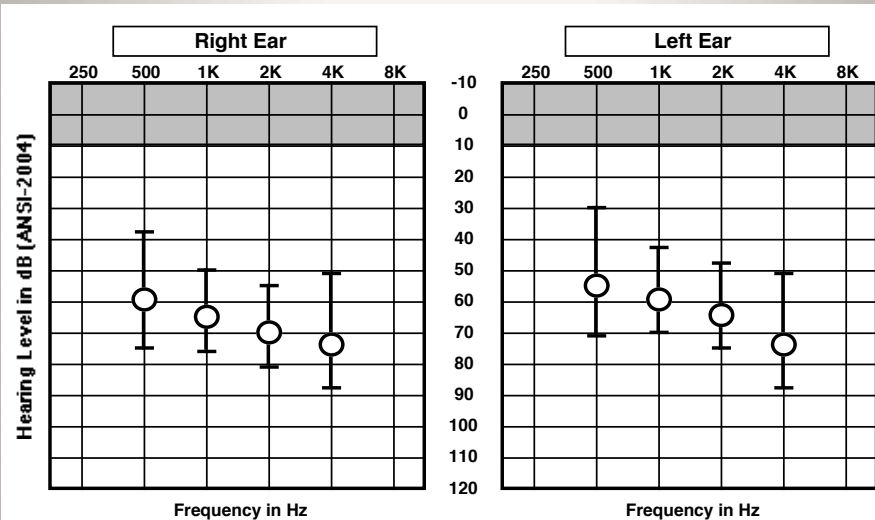
Age 2 mo

Male

- ABR thresholds to 75 dB nHL on the right and 70 on the left
- No ABR response to bone conduction
- Type A tympanograms
- OAEs absent bilaterally

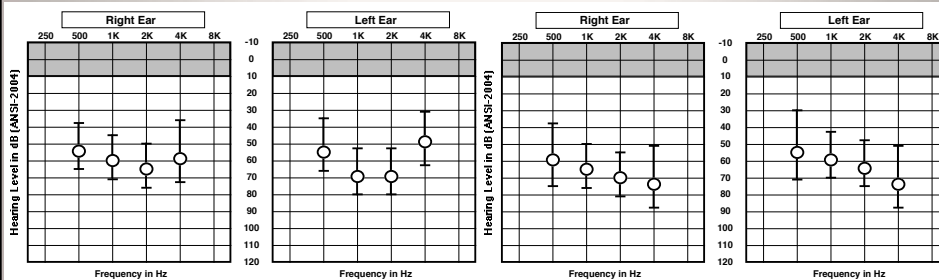
Case: B2 Age: 2 mo

ASSR



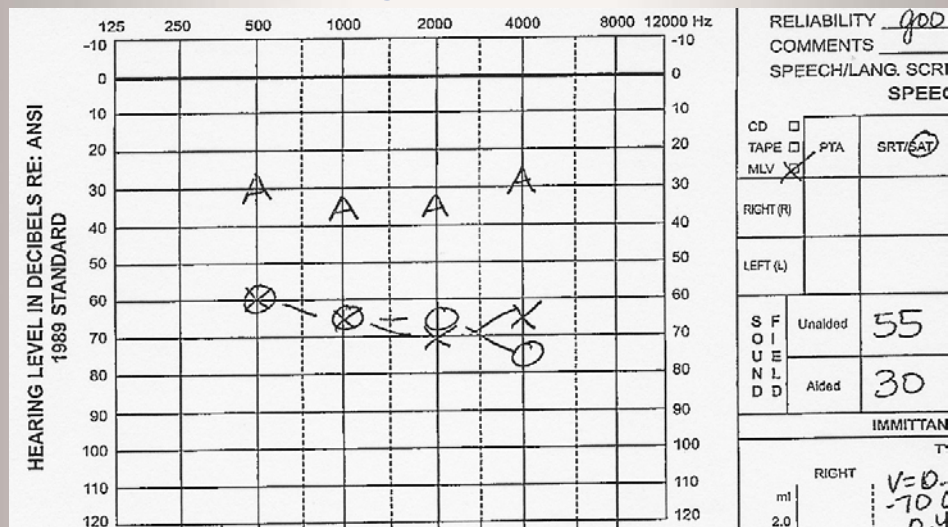
Cases: B1 & B2

ASSR

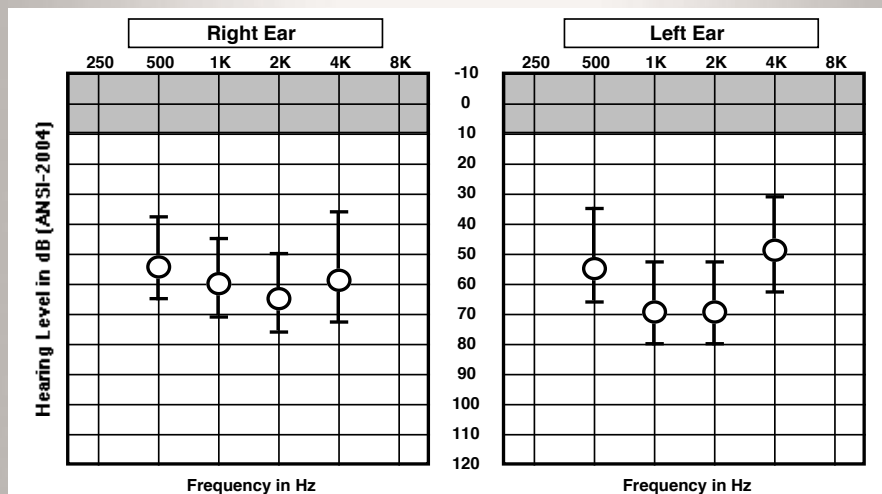


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Case: B1 Age: 11 mo Female



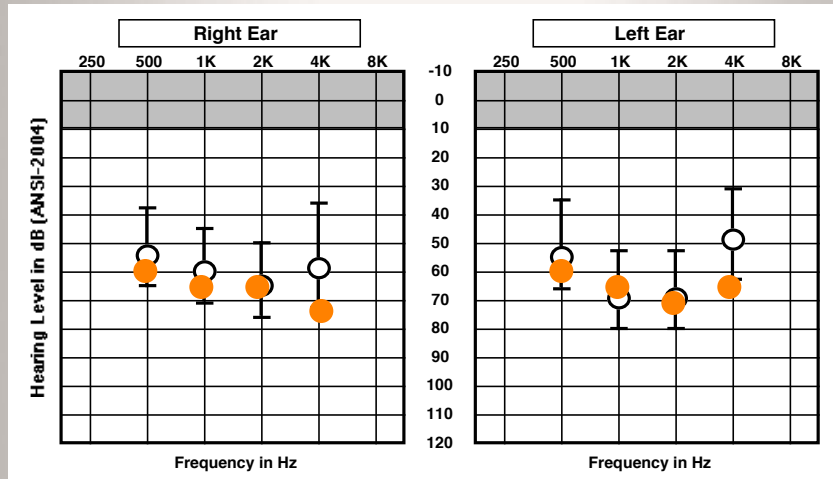
Case: B1 Age: 2 mo ASSR



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Case: B1 Age: 2 mo

ASSR



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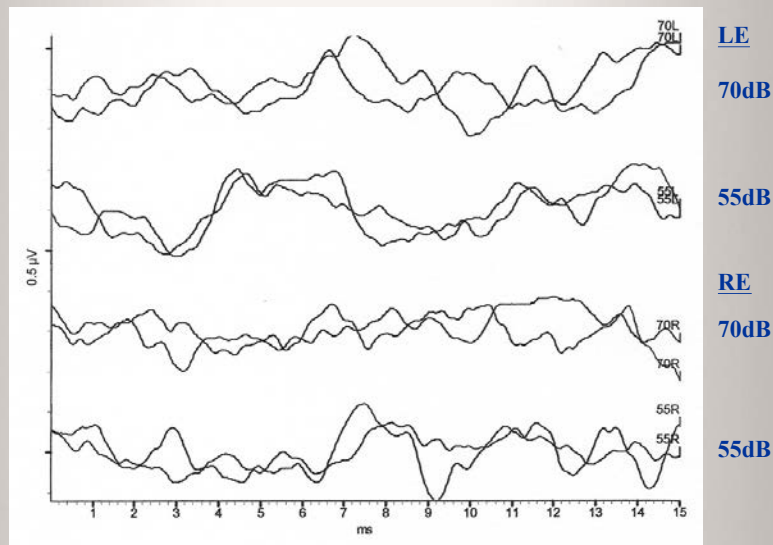
Report of a Case

Case: C

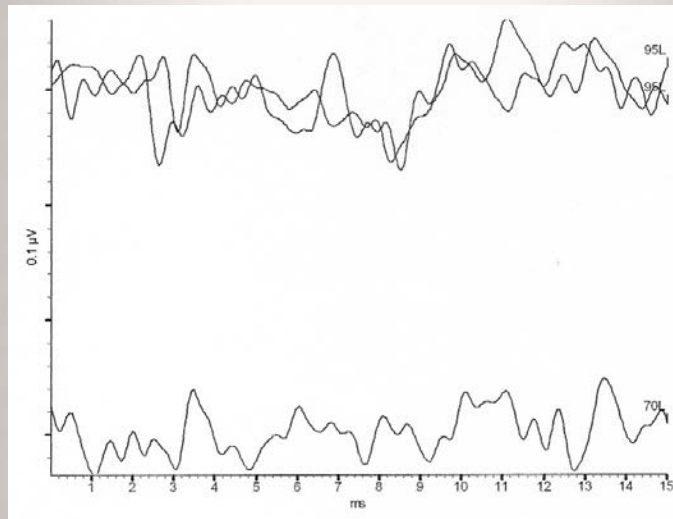
- Age: 4 months Sex: Female
- History:
 - Congenital hydrocephalus
 - Dilation of the 4th ventricle
 - Shunt at 2 days
 - Seizure disorder
 - Improving visual disorder



Case: C 2 days ICN Screen



Case: C 4mo LE Click ABR

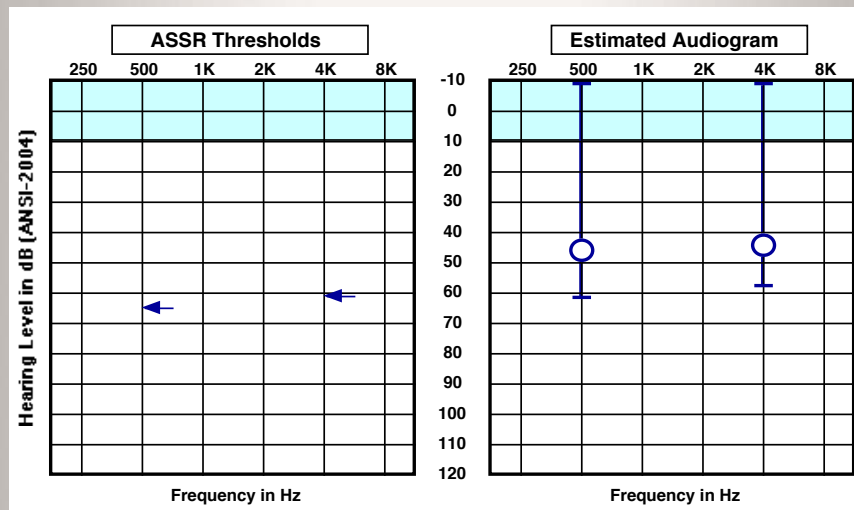


95 dB

70 dB

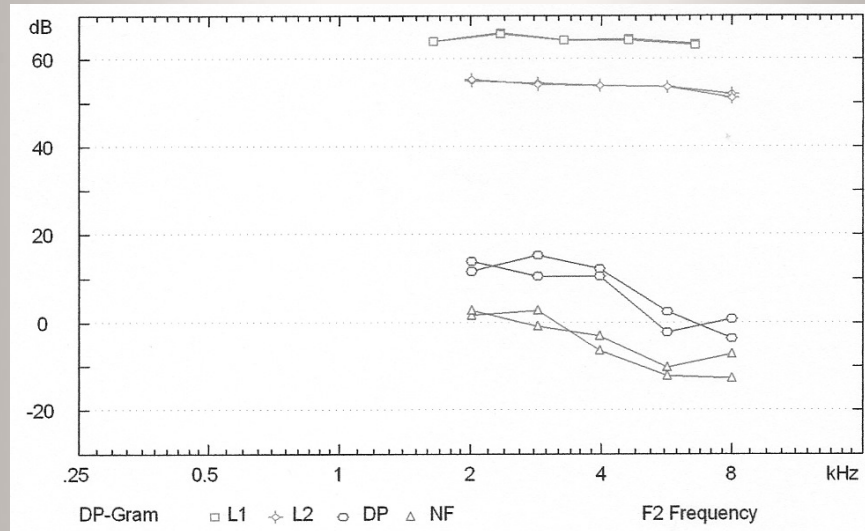


Case: C 4mo RE ASSR

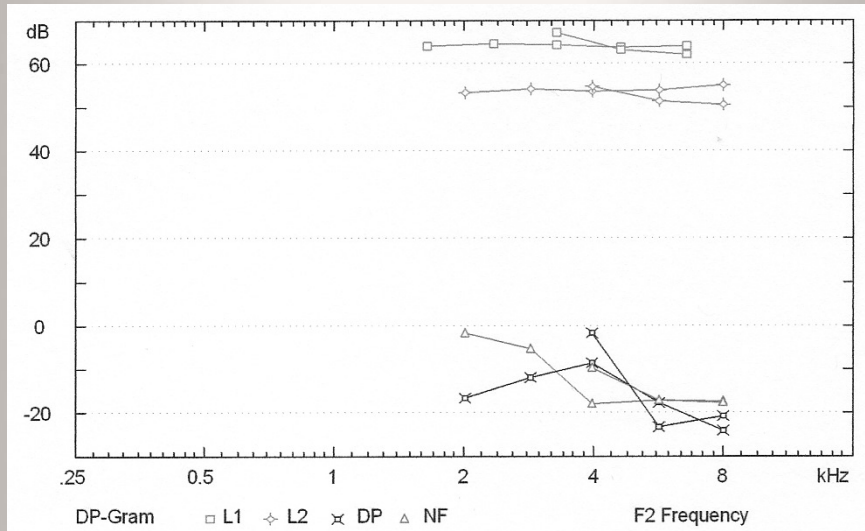


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Case: C 4mo Right DPOAEs

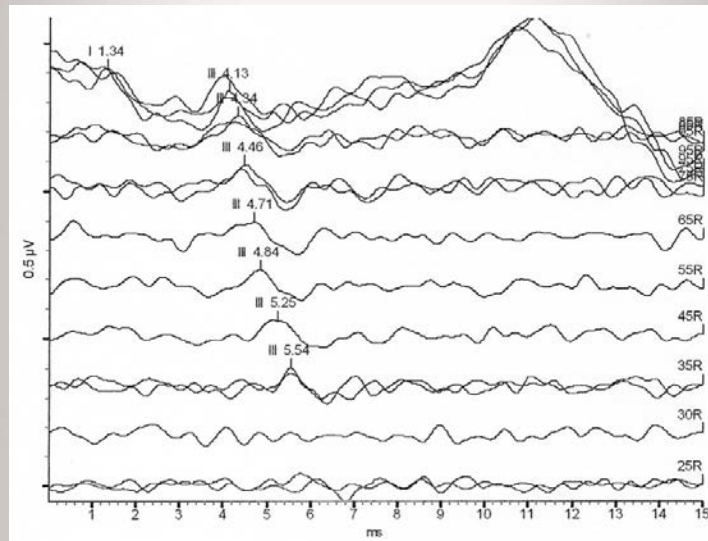


Case: C 4mo Left DPOAEs



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Case: C 4mo RE Click ABR



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Report of a Case

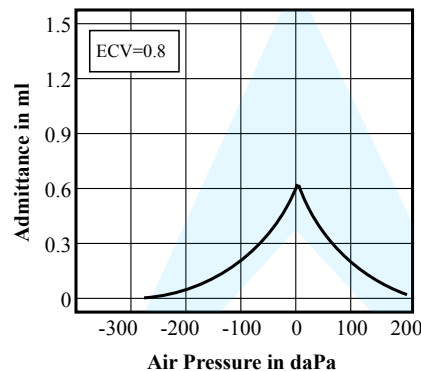
Case: D

- Age: 16 years Sex: Female
- History:
 - Thought she might have hearing loss
 - Reportedly never formally assessed
 - ECMO treatment as an infant
 - Hearing loss might be progressive
 - Right clicking tinnitus
 - Received speech therapy

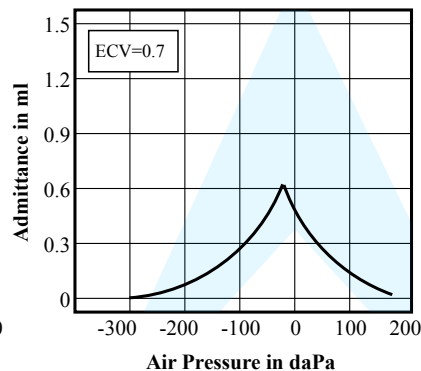


Case: D Age: 16 years Female

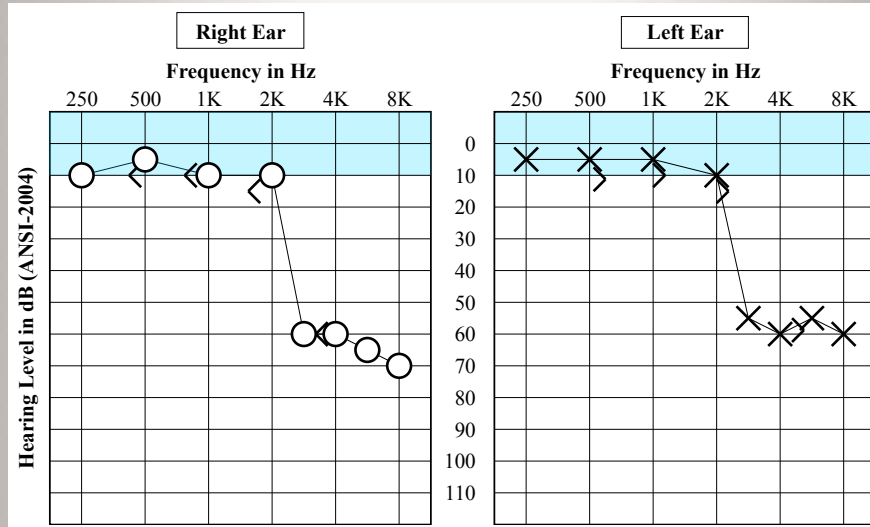
Right Ear				
Signal to RE	BBN	500	1K	2K
Crossed	80	90	90	90
Uncrossed			90	95



Left Ear				
Signal to LE	BBN	500	1K	2K
Crossed	80	85	85	80
Uncrossed			75	85



Case: D Age: 16 years Female



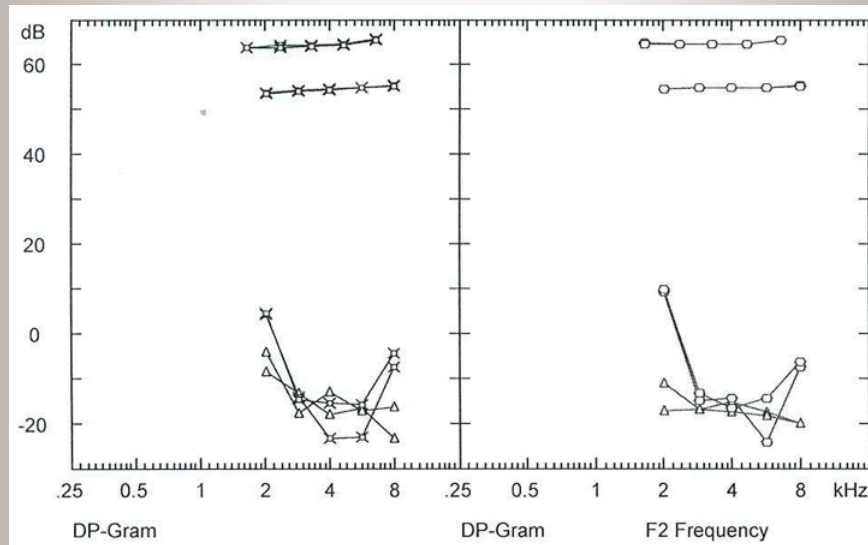
Case: D Age: 16 years Female

Word-Recognition Scores

Right	Level	Left
80 %	80 HL	84 %
%	70 HL	%

Case: D

DPOAEs



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