

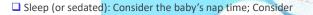




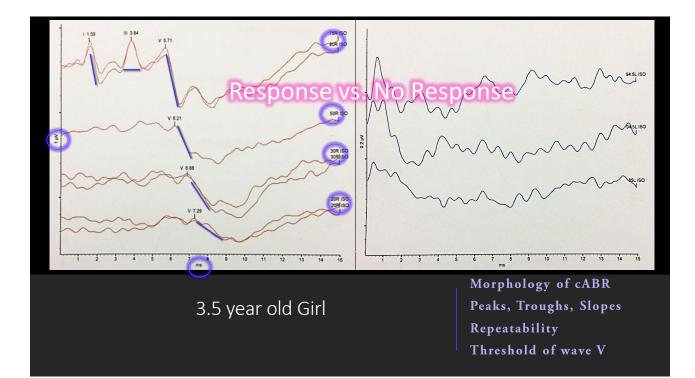
Auditory Brainstem Response Protocol and Wave Characteristics Dr. Moslem Shaabani Assistant Professor USWR, Tehran

General protocol for recording ABR in infants

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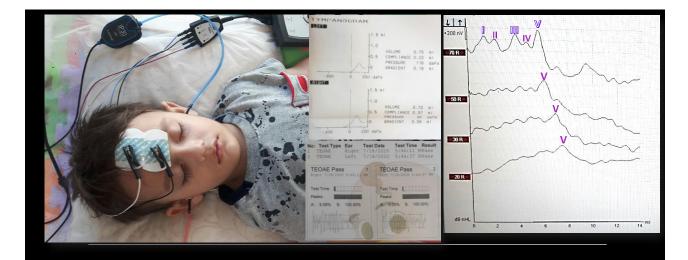
- □ Before sleeping: Acoustic Immittance and OAEs (If agitated?)
- Before feeding: Apply electrodes, Dry diaper
- □ Sleep in a car seat (or parent holding); for check up
- Disposable electrode pads
- Electrode leads, Two channel preparation
- □ 1 None-Inverting, 2 Inverting, 1 Ground
- 📮 3 K Ohm; 1 K Ohm
- Click (70 dB nHL); TB 2 KHz; TB 500 Hz
- Alt (check both polarity); Rate 27.7 or 45.1 Hz
- 10-12 ms; 15 ms; 20 ms
- Threshold (20 dB; 30 dB)
- Dr. Moslem Shaabani (Assistant Professor; USWR; Tehran)



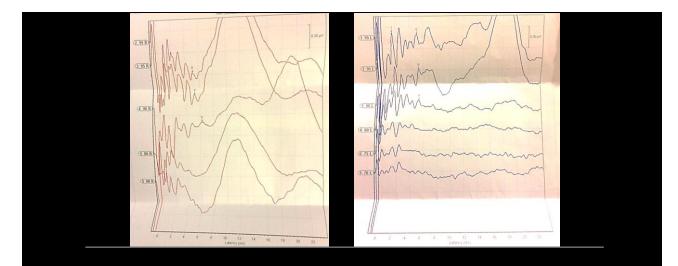
Maturational Issue (Preterm, Term, 6-month-old)

	35–36 weeks				39-40 weeks			
	Mean	Median	Standard deviation		Mean	Median	Standard deviation	
Wave I	1.81	1.82	0.09	Wave I	1.79	1.80	0.09	
Wave III	4.74	4.75	0.20	Wave III	4.56	4.57	0.22	
Wave V	7.14	7.24	0.34	Wave V	6.90	6.96	0.33	
Interpeak I-III	2.89	2.92	0.25	Interpeak I-III	2.77	2.80	0.21	
Interpeak I-III	2.41	2.47	0.28	Interpeak I-III	2.42	2.30	0.61	
Interpeak I-V	5.33	5.39	0.31	Interpeak I-V	5.08	5.14	0.31	
37–38 weeks				6-month-old				
	Mean	Median	Standard deviation		Mean	Median	Standard deviation	
Wave I	1.79	1.76	0.09	Wave I	1.70	1.74	0.12	
Wave III	4.62	4.62	0.20	Wave III	4.37	4.37	0.19	
Wave V	(7.05)	7.11	0.28	Wave V	6.50	6.55	0.27	
Interpeak I-III	2.83	2.81	0.20	Interpeak I-III	2.65	2.60	0.20	
Interpeak I-III	2.42	2.39	0.22	Interpeak I-III	2.16	2.14	0.18	
Interpeak I-V	5.23	5.23	0.24	Interpeak I-V	4.81	4.83	0.26	

TEACH A COURSE

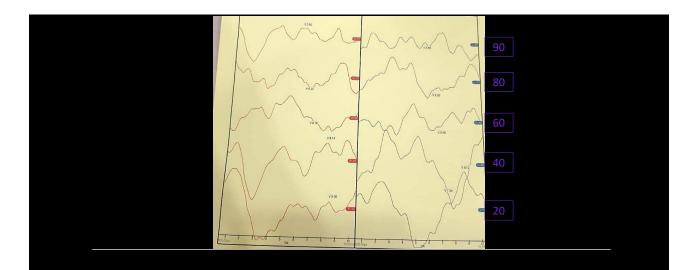


19-month-old Boy Speech delay Tympanometry (Probe fit) OAE (Probe fit) ABR (Sleep, Impedance) Normal hearing up to 20 dB nHL



Practice 1 Girl; 10 months old; OAE Present

Repeatable Sinusoidal No reliable click ABR Both Polarity Suspected wave V Time window



Practice 2 Boy; 24 months old; OAE DNT Bad morphology No repeatability Latency/Intensity variation





Thank You!