

Correction factors in ABR

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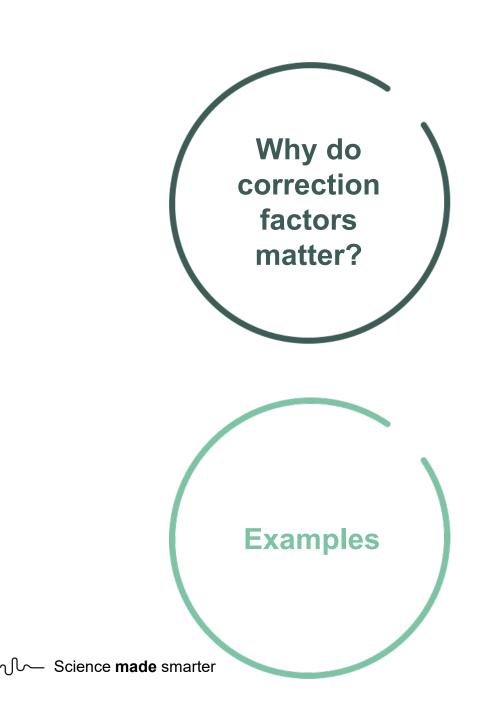


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ABR testing: correction factors





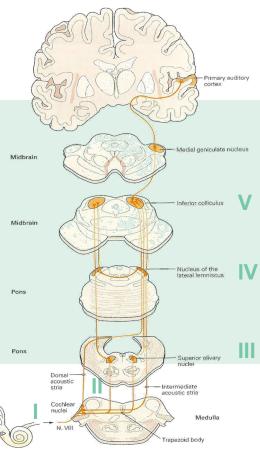


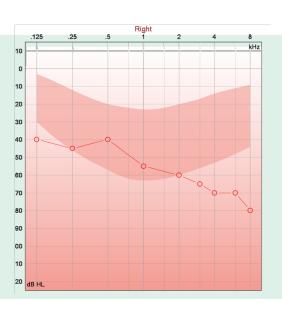




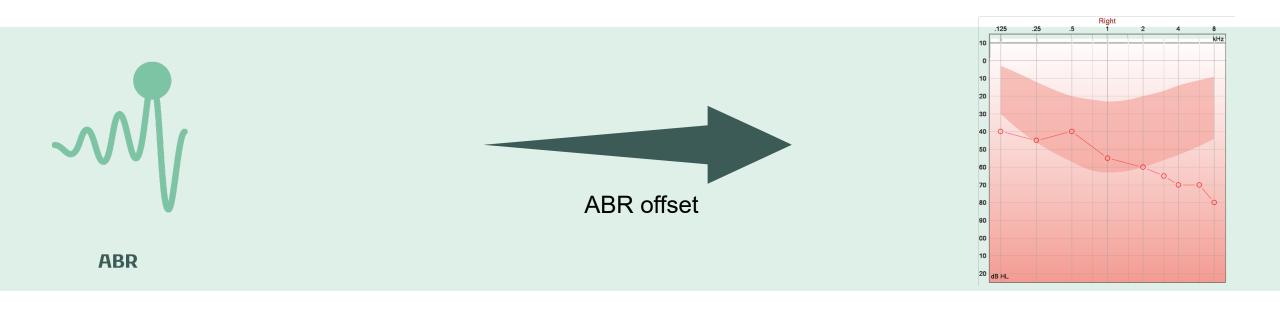
What correction factors do we have?



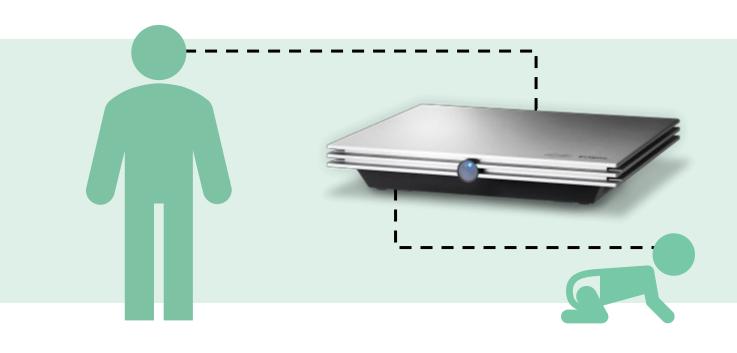




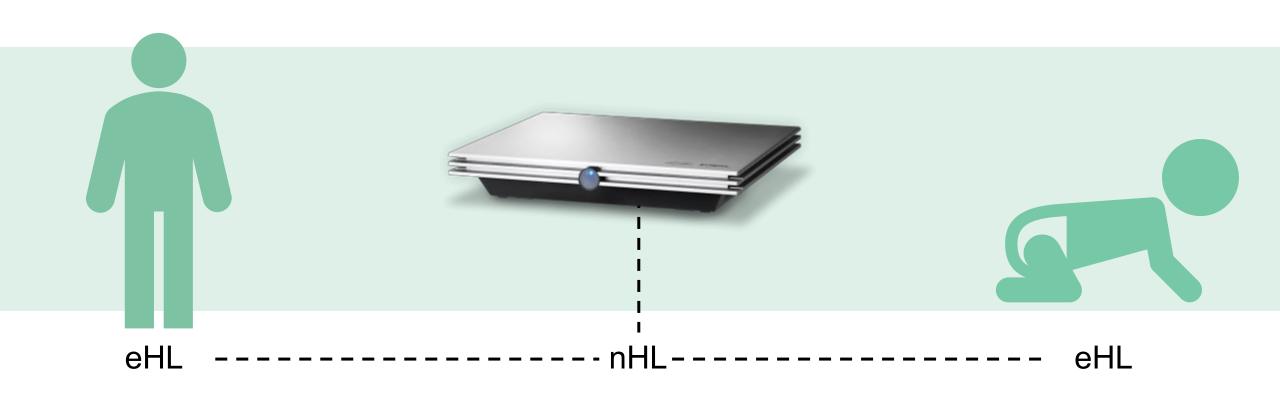




















What correction factors do we have?









Appendix I: Combined ABR dBnHL to dBeHL correction values by transducer

In the tables below, combined corrections are added to the thresholds in dBnHL to give the estimated threshold in dBeHL. Derivation is explained in section 8.

AC - INSERTS		Tone	pip/click	ABR		Chirp			
Corrected age	0.5k	1k	2k	4k	Click	0.5k	1k	2k	4k
≤12 weeks (≤84 days)	-15	-10	-5	0	5	-10	-5	0	5
13 to 24 weeks (85–168 days)	-20	-15	-10	-5	0	-15	-10	-5	0
> 24 wk (>168 days)	-20	-15	-10	-10	-5	-15	-10	-5	-5

AC - HEADPHONES	Tone pip/click ABR						Chirp 0.5k 1k 2k 4		
Corrected age	0.5k	0.5k 1k 2k 4k Click				0.5k	1k	2k	4k
All ages	-20	-15	-10	-10	-5	-15	-10	-5	-5

вс		Tone	pip/click	ABR		Ch	irp		
Corrected age	0.5k	1k	2k	4k	Click	0.5k	1k	2k	4k
≤12 weeks (≤84 days)	5	5	-5	0	See below	10	10	0	5
13 to 24 weeks (85 - 168 days)	0	0	-10	-5	-5	5	5	-5	0
25 weeks to 2 years (169 - 730 days)	-5	-5	-10	-10	-5	0	0	-5	-5
>2 years (>730 days)	-20	-15	-10	-10	-5	-15	-10	-5	-5

BC Click

1370

BC CIICK		
Corrected age	Gestational age	Click†
-4 weeks	36 weeks	+7
0 weeks	40 weeks	+4
6 weeks	46 weeks	0
12 weeks	52 weeks	-2

[†] For clicks, where the corrected age is between the values in the previous column, interpolation may be used (note that this is done in eSP).

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Appendix I: Combined ABR dBnHL to dBeHL correction values – by transducer

In the tables below, combined corrections are <u>added</u> to the thresholds in dBnHL to give the estimated threshold in dBeHL. Derivation is explained in section 8.

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AC - HEADPHONES	Tone pip/click ABR						Chirp 0.5k 1k 2k 4		
Corrected age	0.5k	0.5k 1k 2k 4k Click				0.5k	1k	2k	4k
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AC - HEADPHONES		Tone	pip/click	ABR		Chirp 0.5k 1k 2k 4k -15 -10 -5 -5				
Corrected age	0.5k	1k	2k	4k	Click	0.5k	0.5k 1k 2k 4			
All ages	-20	-15	-10	-10	-5	-15	-10	-5	-5	

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ВС		Tone pip/click ABR					Chirp			
Corrected age	0.5k	1k	2k	4k	Click	0.5k	1k	2k	4k	
≤12 weeks (≤84 days)	5	5	-5	0	See below	10	10	0	5	
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1375 BC Click

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6 weeks	46 weeks	0
12 weeks	52 weeks	-2

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Appendix I: Combined ABR dBnHL to dBeHL correction values by transducer

In the tables below, combined corrections are added to the thresholds in dBnHL to give the estimated threshold in dBeHL. Derivation is explained in section 8.

AC - INSERTS		Tone pip/click ABR					Chirp			
Corrected age	0.5k	1k	2k	4k	Click	0.5k	1k	2k	4k	
≤12 weeks (≤84 days)	-15	-10	-5	0	5	-10	-5	0	5	
13 to 24 weeks (85–168 days)	-20	-15	-10	-5	0	-15	-10	-5	0	
> 24 wk (>168 days)	-20	-15	-10	-10	-5	-15	-10	-5	-5	

AC - HEADPHONES		Tone pip/click ABR					Ch	irp	
Corrected age	0.5k	1k	2k	4k	Click	0.5k 1k 2k 4			
All ages	-20	-15	-10	-10	-5	-15	-10	-5	-5

вс		Tone pip/click ABR					Chirp			
Corrected age	0.5k	1k	2k	4k	Click	0.5k	1k	2k	4k	
≤12 weeks (≤84 days)	5	5	-5	0	See below	10	10	0	5	
13 to 24 weeks (85 - 168 days)	0	0	-10	-5	-5	5	5	-5	0	
25 weeks to 2 years (169 - 730 days)	-5	-5	-10	-10	-5	0	0	-5	-5	
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Stapells (2000)

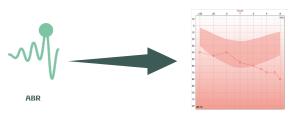
Meta-analysis of 32 studies

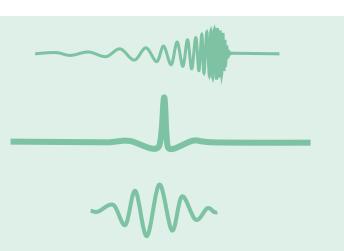
1203 participants

Normal hearing

Hearing loss















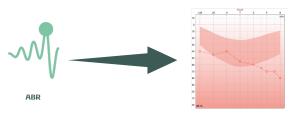


Table E1.1. Tone pip ABR. Results from Stapells (2000) meta-analysis show mean elevation of the tpABR thresholds (dBnHL) over the PTA thresholds

	Mean (95% CI of population mean) of difference between tpABR and behavioural thresholds (Stapells 2000)							
Subject group	0.5 kHz	1 kHz	2 kHz	4 kHz				
Adults (normal hearing)	20.4	16.2	13.4	11.8				
	(18.8-21.9)	(14.9-17.4)	(12.3-14.4)	(10.7-12.8)				
Adults (sensorineural)	13.4	10.3	8.4	5.2				
	(11.0-15.8)	(8.4-12.1)	(6.310.3)	(2.4-8.0)				
Infants/young children (normal hearing)	19.6	17.4	13.6	15.5				
	(18.8-20.5)	(16.0-18.7)	(11.8-15.5)	(14.116.8)				
Infants/young children (sensorineural)	5.5	4.9	0.6	-8.1				
	(3.0-8.0)	(2.4-7.3)	(-1.6-+2.7)	(-12.14.1)				





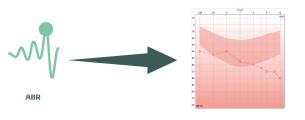
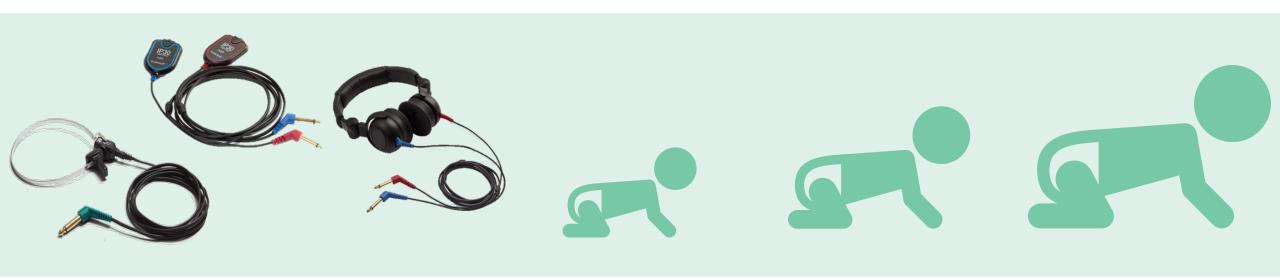


Table E1.4. Derivation of offset values (tpABR above PTA thresholds)

	0.5 kHz	1 kHz	2 kHz	4 kHz	click
Stapells(2000) + 5dB	-20	-15	-15	-10	
Correction to align overall corrections with Ontario	0	0	+5	0	0
ABR click/tone pip offsets	-20	-15	-10	-10	-5
ABR chirp offsets	-15	-10	-5	-5	n/a









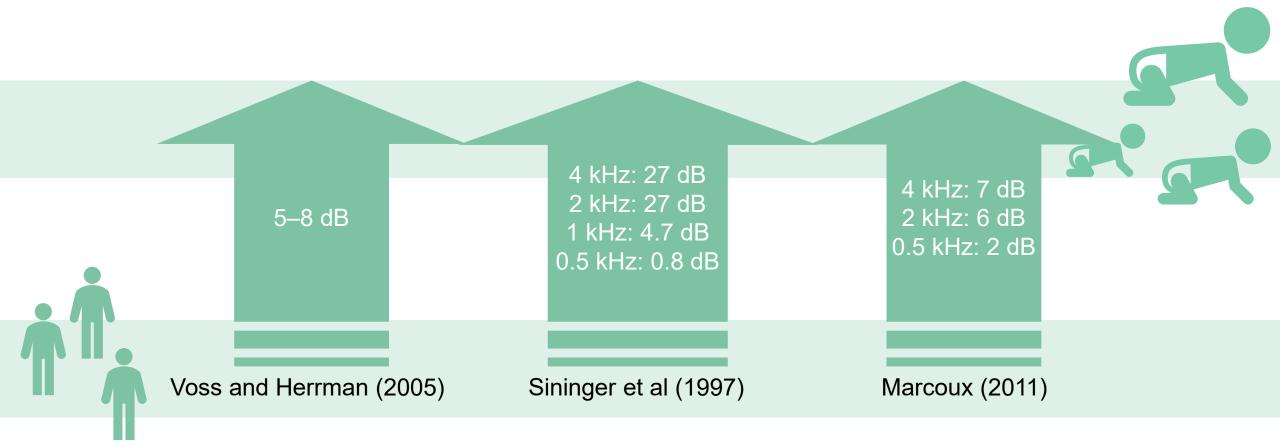
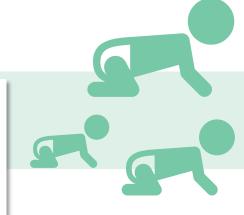


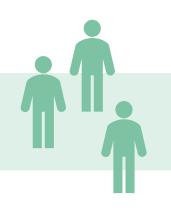




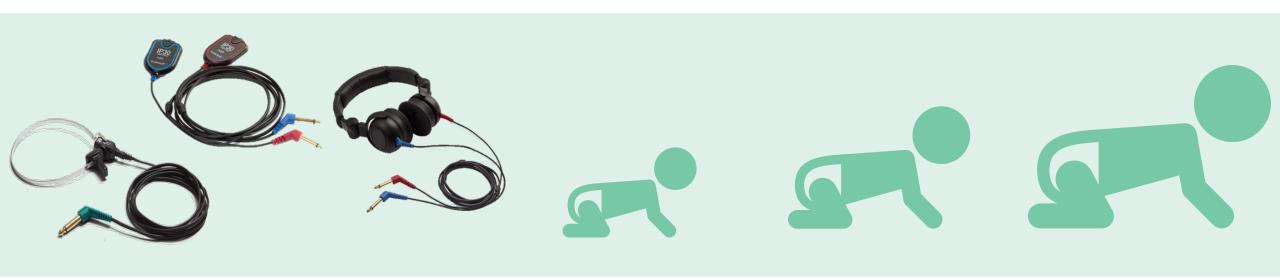
Table D1.3. Provisional stimulus correction for insert earphones by age.

Corrected age (days)	0.5 kHz	1 kHz	2 kHz	4 kHz	Click
≤84 days	5	5	5	10	10
85 to168 days	0	0	0	5	5
169 to 730 days	0	0	0	0	0
>730 days	0	0	0	0	0



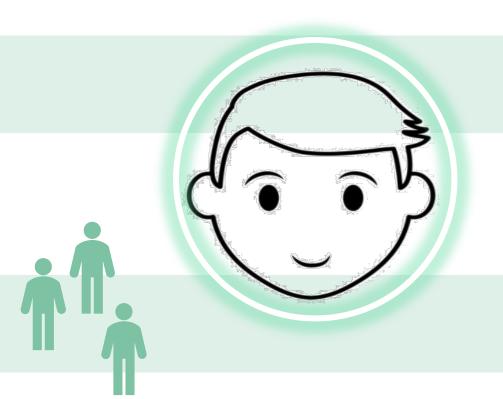




















Corrected age (days)	0.5 kHz	1 kHz	2 kHz	4 kHz	Click
≤84 days	25	20	5	10	See Table D1.2
85 to 168 days	20	15	0	5	0
169 to 730 days	15	10	0	0	0
>730 days	0	0	0	0	0









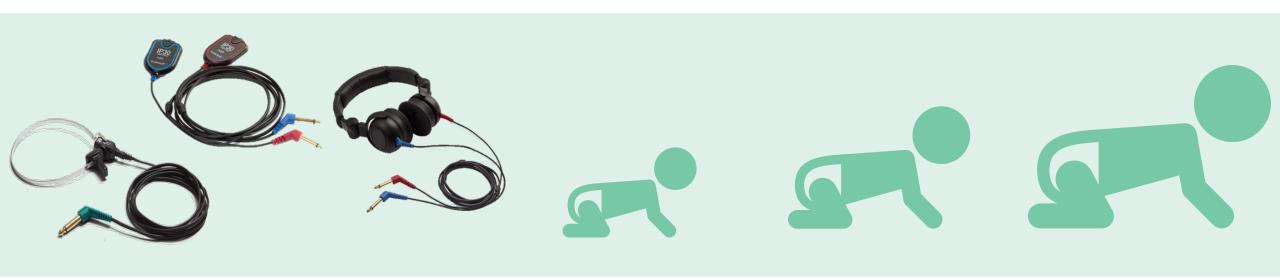


Table D1.2. Stimulus level corrections by age for click BC (to 1 dB)

Gestational age	36 weeks	40 weeks	46 weeks	52 weeks
Corrected age	-4 weeks	0 weeks	6 weeks	12 weeks
Difference (dB)	12	9	6	3





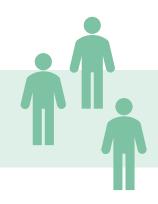




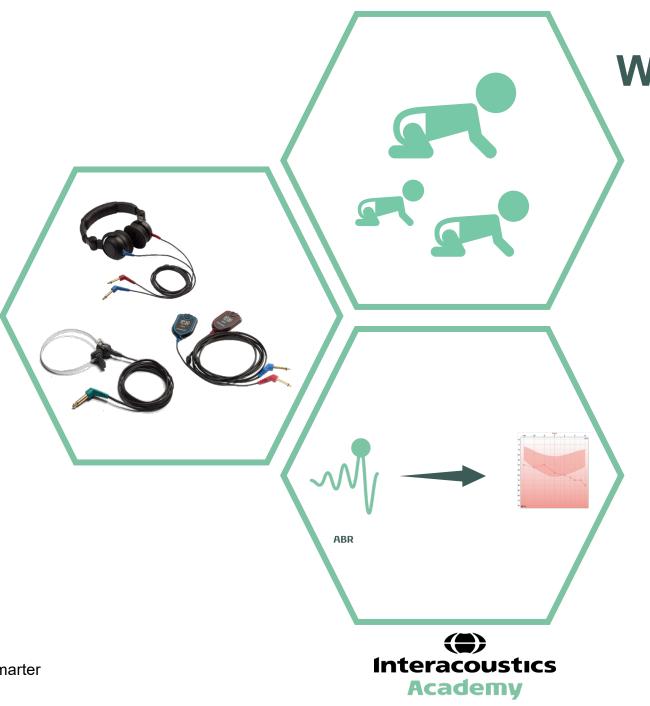




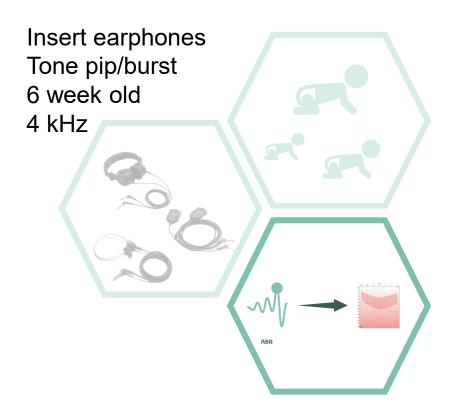
No correction of the stimulus level for headphones







	0.5 kHz	1 kHz	2 kHz	4 kHz	click
Stapells(2000) + 5dB	-20		-15	-10	
Correction to align overall corrections with Ontario	0		+5	0	0
ABR click/tone pip offsets	-20			-10	-5
ABR chirp offsets	-15		-5	-5	а

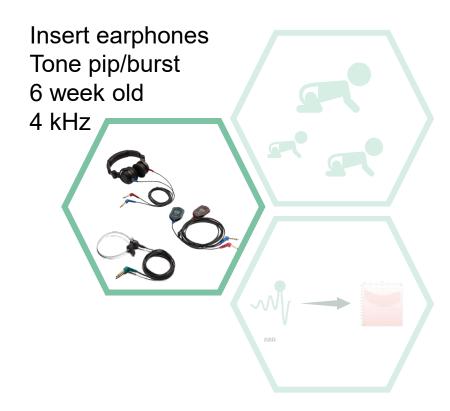




	0.5 kHz	1 kHz	2 kHz	4 kHz	click
Stapells(2000) + 5dB	-20		-15	-10	
Correction to align overall corrections with Ontario	0		+5	0	0
ABR click/tone pip offsets	-20		-10	-10	-5
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Table D1.3. Provisional stimulus correction for insert earphones by age.

Corrected age (days)	0.5 kHz	1 kHz	2 kHz	4 kHz	Click
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169 to 730 days	0		0	0	0
>730 days	0	0	0	0	0

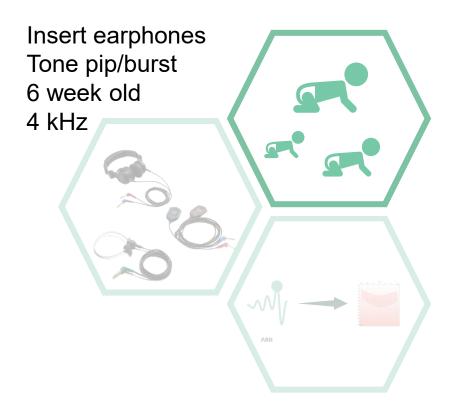




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Stapells(2000) + 5dB	-20		-15	-10	
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169 to 730 days					0
>730 days	0	0	0	0	0





	0.5 kHz			4 kHz	click
Stapells(2000) + 5dB	-20		-15	-10	
Correction to align overall corrections with Ontario	0		+5	0	0
ABR click/tone pip offsets	-20			-10	-5
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			0	5	5
					0
	0	0	0	0	0

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AC - INSERTS		Tone	pip/click	ABR		Chirp			
Corrected age	0.5k	1k	2k	4k	Click	0.5k			
≤12 weeks (≤84 days)	-15		-5	0	5				
13 to 24 weeks (85–168 days)	-20		-10	-5	0				







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> 24 wk (>168 days)	-20	-15	-10	-10	-5	-15	-10	-5	-5

AC - HEADPHONES		Tone	pip/click	ABR	Chirp				
Corrected age	0.5k	0.5k 1k 2k 4k Click					1k	2k	4k
All ages	-20	-15	-10	-10	-5	-15	-10	-5	-5

ВС		Tone	pip/click	ABR	Chirp				
Corrected age	0.5k	1k	2k	4k	Click	0.5k	1k	2k	4k
≤12 weeks (≤84 days)	5	5	-5	0	See below	10	10	0	5
13 to 24 weeks (85 - 168 days)	0	0	-10	-5	-5	5	5	-5	0
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[†] For clicks, where the corrected age is between the values in the previous column, interpolation may be used (note that this is done in eSP).

4 week old
Born at 38 weeks gestation
2 weeks corrected
CE-Chirp®



4 kHz insert earphone threshold = 45 dB nHL

Correction factor =



4 kHz bone conduction threshold <= 10 dB nHL







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4 week old Born at 38 weeks gestation 2 weeks corrected CE-Chirp®



4 kHz insert earphone threshold = 45 dB nHL

Correction factor = + 5 dB

Corrected threshold : 50 dB eHL

4 kHz bone conduction threshold <= 10 dB nHL







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AC - HEADPHONES	Tone pip/click ABR						Chi	irp	
Corrected age	0.5k	0.5k 1k 2k 4k Click				0.5k	1k	2k	4k
All ages	-20	-15	-10	-10	-5	-15	-10	-5	-5

ВС		Tone pip/click ABR					Chirp			
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0 weeks	40 weeks	+4
6 weeks	46 weeks	0
12 weeks	52 weeks	-2

[†] For clicks, where the corrected age is between the values in the previous column, interpolation may be used (note that this is done in eSP).

4 week old
Born at 38 weeks gestation
2 weeks corrected
CE-Chirp®



4 kHz insert earphone threshold = 45 dB nHL

Correction factor = + 5 dB





4 kHz bone conduction threshold <= 10 dB nHL

Correction factor =







ВС		Tone pip/click ABR				Chirp			
Corrected age	0.5k	1k	2k	4k	Click	0.5k	1k	2k	4k
≤12 weeks (≤84 days)	5	5	-5	0	See below	10	10	0 (5
13 to ∠4 weeks (85 - 168 days)	0	0	-10	-5	-5	5	5	-5	0
25 weeks to 2 years (169 - 730 days)	-5	-5	-10	-10	-5	0	0	-5	-5
>2 years (>730 days)	-20	-15	-10	-10	-5	-15	-10	-5	-5

4 week old
Born at 38 weeks gestation
2 weeks corrected
CE-Chirp®



4 kHz insert earphone threshold = 45 dB nHL

Correction factor = + 5 dB



Corrected threshold = 50 dB eHL

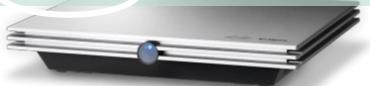
4 kHz bone conduction threshold <= 10 dB nHL

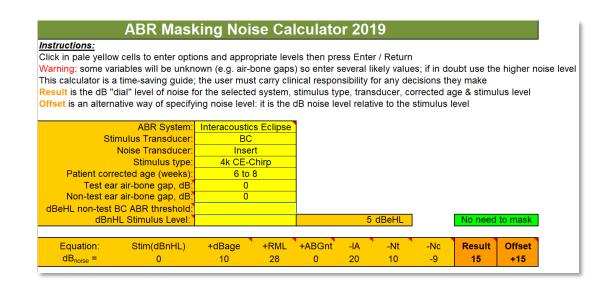
Correction factor = + 5 dB



Corrected threshold <= 15 dB eHL







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9 week old
Born at 39 weeks gestation
8 weeks corrected
CE-Chirp®



1 kHz insert earphone threshold = 55 dB nHL



Corrected threshold =

1 kHz bone conduction threshold = 40 dB nHL







ABR Masking Noise Calculator 2019

Instructions:

Click in pale yellow cells to enter options and appropriate levels then press Enter / Return Warning: some variables will be unknown (e.g. air-bone gaps) so enter several likely values; This calculator is a time-saving guide; the user must carry clinical responsibility for any decising Result is the dB "dial" level of noise for the selected system, stimulus type, transducer, corrections of the selected system of the stire of the stire of the stire of the selected system.

APP System:	Interacoustics Eclipse
Stimulus Transducer	BC
Noise Transducer:	Insert
Stimulus type:	4k CE-Chirp
Patient corrected age (weeks):	6 to 8
Test ear air-bone gap, dB:	0
Non-test ear air-bone gap, dB:	0
dBeHL non-test BC ADR threshold:	
dBnHL Stimulus Level:	

Equation:	Stim(dBnHL)	+dBage	+RML	+ABGnt	-IA	-Nt	
dB _{noise} =	0	10	28	0	20	10	

9 week old
Born at 39 weeks gestation
8 weeks corrected
CE-Chirp®



1 kHz insert earphone threshold = 55 dB nHL



Corrected threshold =







5 dBeHL



ABR Masking Noise Calculator 2019

28

Instructions:

Click in pale yellow cells to enter options and appropriate levels then press Enter / Return Warning: some variables will be unknown (e.g. air-bone gaps) so enter several likely values; This calculator is a time-saving guide; the user must carry clinical responsibility for any decisi Result is the dB "dial" level of noise for the selected system, stimulus type, transducer, corre Offset is an alternative way of specifying noise level: it is the dB noise level relative to the stire.

		ABR System:	Interacoustic	s Eclipse		
Stimulus Transducer:			Insert			
		Noise Transducer:	Insert			
		Stimulus type:	1k CE-C	Chirp		
	Patient corre	ected age (weeks):	6 to	8		
		r air-bone gap, dB:				
	Non-test ear	r air-bone gap, dB:	0		<u> </u>	
	dBeHL non-test I	BC ABR threshold:				
	dBnF	HL Stimulus Level:	55			50
	Equation:	Stim(dBnHL)	+dBage	+RML	+ABGnt	-IA

5

55

9 week old
Born at 39 weeks gestation
8 weeks corrected
CE-Chirp®

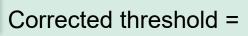


1 kHz insert earphone threshold = 55 dB nHL



Corrected threshold = 50 dB eHL

1 kHz bone conduction threshold = 40 dB nHL







-Nt

66

0



 $dB_{noise} =$

ABR Masking Noise Calculator 2019

Instructions:

Click in pale yellow cells to enter options and appropriate levels then press Enter / Return Warning: some variables will be unknown (e.g. air-bone gaps) so enter several likely values; This calculator is a time-saving guide; the user must carry clinical responsibility for any decisi Result is the dB "dial" level of noise for the selected system, stimulus type, transducer, corre Offset is an alternative way of specifying noise level: it is the dB noise level relative to the stire.

ABR System:	Interacoustics Eclipse
Stimulus Transducer:	BC
Noise Transducer:	Insert
Stimulus type:	1k CE-Chirp
Patient corrected age (weeks):	6 to 8
Test ear air-bone gap, dB:	0
Non-test ear air-bone gap, dB:	0
dBeHL non-test BC ABR threshold:	
dBnHL Stimulus Level:	40

Equation:	Stim(dBnHL)	+dBage	+RML	+ABGnt	-IA	-Nt
$dB_{noise} =$	40	20	28	0	20	5

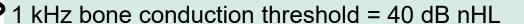
9 week old
Born at 39 weeks gestation
8 weeks corrected
CE-Chirp®

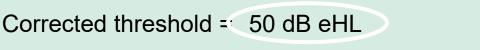


1 kHz insert earphone threshold = 55 dB nHL



Corrected threshold = 50 dB eHL

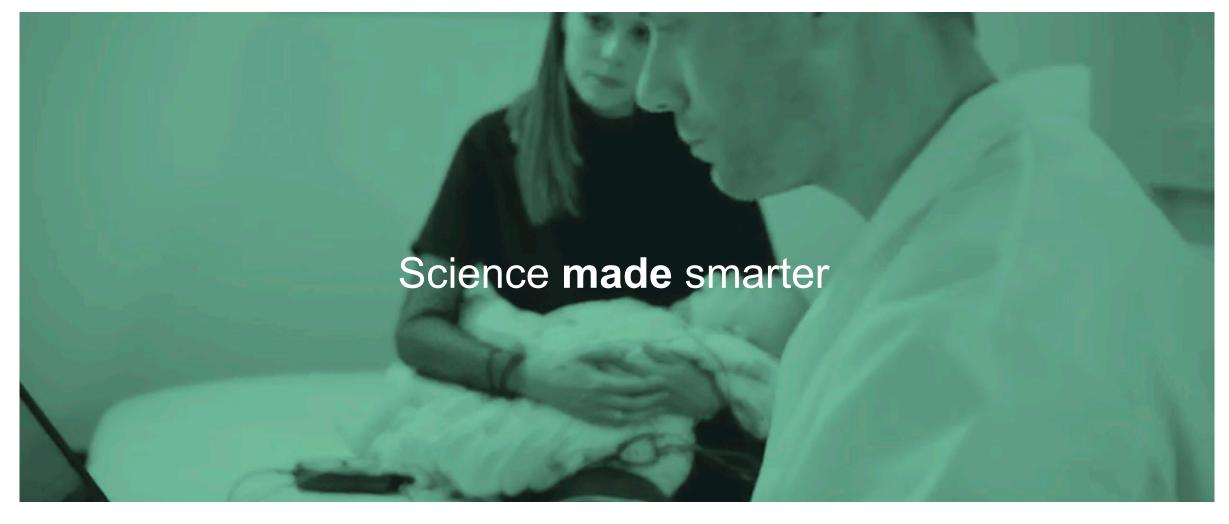












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