

Supplemental Material S3. Linear mixed models with hearing history.

Span direction	Random intercept variance	Predictors	<i>t</i>	<i>p</i>
Forward	1.03, <i>SD</i> = 1.00	CTONI-2	4.6	< .01
		Age at identification of deafness	-0.4	.72
		Preimplant residual hearing	-0.2	.85
		Age at fit of CI	0.6	.55
		Duration of CI use	1.1	.27
		Bilateral implantation	-1.6	.11
		Stimulus (digits–objects)*	-8.0	< .01
		Stimulus (digits–symbols)	-15.11	< .01
		Stimulus (objects–symbols)	-7.2	< .01
Backward	0.99, <i>SD</i> = 0.99	CTONI-2	3.9	< .01
		Age at identification of deafness	-1.1	.28
		Preimplant residual hearing	0.5	.63
		Age at fit of CI	1.0	.32
		Duration of CI use	2.2	.03
		Bilateral implantation	-0.5	.64
		Stimulus (digits–objects)	-5.5	< .01
		Stimulus (digits–symbols)	-8.2	< .01
		Stimulus (objects–symbols)	-2.8	< .01

Note. CTONI-2 = Comprehensive Test of Nonverbal Intelligence–Second Edition (Hammill, Pearson, & Wiederholt, 2009); CI = cochlear implant.

*A minus sign (–) denotes the effect of changing levels of the variable *stimulus*—for example, the variance due to shifting stimuli from digits to objects.

Reference

Hammill, D. D., Pearson, N. A., & Wiederholt, J. L. (2009). *Comprehensive Test of Nonverbal Intelligence–Second Edition*. Austin, TX: Pro-Ed.