

Supplemental Material S4. Results of linear mixed-effects model on pitch shape (slope and curvature) in children’s lexical tone productions, with two fixed factors “Group” (NH = 3, CI_Imp 1-2, CI_Imp 2-3, CI_Imp 3-4, and CI_Imp 4-5) and “Tones” (T1, T2, T3 and T4) and a covariate “Chronological Age.”

Parameter	Factors	df 1	df 2	<i>F</i>	<i>p</i>
Pitch slope	Group	4	145	0.83	.508
	Tone	3	5882	4.47	< .01**
	Chronological age	1	145	3.05	.083
	Group × Tone	12	5890	3.64	< .001***
	Group × Chronological Age	4	145	0.65	.628
	Tone × Chronological Age	3	5882	0.82	.480
	Group × Tone × Chronological Age	12	5889	1.19	.282
Pitch curvature	Group	4	151	3.10	< .05*
	Tone	3	5882	3.73	< .05*
	Chronological Age	1	152	2.35	.127
	Group × Tone	12	5893	3.91	< .001***
	Group × Chronological Age	4	151	2.21	.071
	Tone × Chronological Age	3	5882	1.50	.214
	Group × Tone × Chronological Age	12	5891	1.23	.256

Note. NH = normal hearing; CI = cochlear implant.