

Supplemental Material S32. Results of linear mixed-effects model on pitch shape (slope and curvature) in children’s trisyllabic tone sandhi productions (Syllables 1 and 2), 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 “Context” (double-T3 and triple-T3) and a covariate “Chronological Age.”

Syllable	Parameter	Factors	df 1	df 2	<i>F</i>	<i>p</i>
Syllable 1	Pitch slope	Group	4	174	6.44	< .001***
		Context	1	5722	0.33	.568
		Chronological Age	1	174	2.03	.156
		Group × Context	4	5733	5.66	< .001***
		Group × Chronological Age	4	174	1.20	.312
		Context × Chronological Age	1	5733	0.33	.565
		Group × Context × Chronological Age	4	5733	2.15	.072
	Pitch curvature	Group	4	2145	0.77	.544
		Context	1	5596	0.31	.576
		Chronological Age	1	2146	1.17	.279
		Group × Context	4	5727	0.42	.794
		Group × Chronological Age	4	2145	1.07	.370
		Context × Chronological Age	1	5727	0.24	.624
		Group × Context × Chronological Age	4	5727	0.41	.802
Syllable 2	Pitch slope	Group	4	177	3.56	< .01**
		Context	1	1405	4.68	< .05*
		Chronological Age	1	177	0.23	.631
		Group × Context	4	5734	5.56	< .001***
		Group × Chronological Age	4	177	0.74	.564
		Context × Chronological Age	1	5728	0.55	.457
		Group × Context × Chronological Age	4	5728	0.24	.919
	Pitch curvature	Group	4	742	0.37	.828
		Context	1	4698	0.53	.467
		Chronological Age	1	743	1.61	.204
		Group × Context	4	5722	3.14	< .05*
		Group × Chronological Age	4	742	0.40	.806
		Context × Chronological Age	1	5721	0.31	.575
		Group × Context × Chronological Age	4	5721	0.44	.779

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