

Supplemental Material S13. Results of linear mixed-effects model on pitch shape (slope and curvature) in children’s neutral tone productions, with three fixed factors “Group” (NH = 3, CI_Imp 1-2, CI_Imp 2-3, CI_Imp 3-4, and CI_Imp 4-5), “Context” (after T1/2/4 and after T3), and “Type” (Reduplicatives and Possessives) and a covariate “Chronological Age.”

Parameter	Factors	df 1	df 2	F	p
Pitch slope	Group	4	232	1.46	.215
	Context	1	12050	4.66	< .01*
	Type	1	11862	2.99	.084
	Chronological age	1	312	0.65	.421
	Group × Context	4	11950	0.52	.719
	Group × Type	4	11746	1.47	.210
	Context × Type	1	12050	3.39	< .05*
	Group × Chronological Age	4	232	1.20	.310
	Context × Chronological Age	1	12010	0.10	.750
	Type × Chronological Age	1	11605	0.85	.357
	Group × Context × Type	4	11977	3.09	< .01***
	Group × Context × Chronological Age	4	11939	0.27	.900
	Group × Type × Chronological Age	4	11710	1.84	.117
	Context × Type × Chronological Age	1	12009	0.19	.659
Group × Context × Type × Chronological Age	4	11938	2.19	.067	
Pitch curvature	Group	4	381	0.92	.450
	Context	1	11964	2.19	.139
	Type	1	11848	0.07	.793
	Chronological Age	1	568	0.03	.870
	Group × Context	4	11937	0.08	.988
	Group × Type	4	11792	0.40	.810
	Context × Type	1	11964	0.00	.994
	Group × Chronological Age	4	388	0.38	.820
	Context × Chronological Age	1	11943	0.00	.981
	Type × Chronological Age	1	11709	0.10	.749
	Group × Context × Type	4	11937	0.12	.974
	Group × Context × Chronological Age	4	11931	0.26	.901
	Group × Type × Chronological Age	4	11775	0.39	.818
	Context × Type × Chronological Age	1	11943	0.06	.803
Group × Context × Type × Chronological Age	4	11931	0.14	.967	

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