

**Supplemental Material S37.** Pairwise comparisons of pitch slope of trisyllabic tone sandhi compounds (Syllables 1 and 2) between groups (NH = 3, CI\_Exp < 1, CI\_Exp 1-2, CI\_Exp 2-3, and CI\_Exp 3-4) for each sandhi context (double-T3 and triple-T3).

<b>Tone</b>	<b>Group difference</b>	<b>Parameter</b>	<b><math>\beta</math></b>	<b><i>SE</i></b>	<b>df</b>	<b><i>t</i></b>	<b><i>p</i></b>
Double-T3	NH = 3 – CI_Exp < 1	Syllable 1	4.13	0.77	171	5.39	< .001***
		Syllable 2	–8.00	1.19	176	–6.71	< .001***
	NH = 3 – CI_Exp 1-2	Syllable 1	3.97	0.49	172	8.10	< .001***
		Syllable 2	–9.25	0.76	178	–12.12	< .001***
	NH = 3 – CI_Exp 2-3	Syllable 1	3.49	0.53	178	6.57	< .001***
		Syllable 2	–7.53	0.83	186	–9.07	< .001***
	NH = 3 – CI_Exp 3-4	Syllable 1	5.21	0.84	183	6.20	< .001***
		Syllable 2	–9.58	1.32	192	–7.28	< .001***
	CI_Exp < 1 – CI_Exp 1-2	Syllable 1	–0.16	0.87	171	–0.19	1.000
		Syllable 2	–1.25	1.35	176	–0.93	.886
	CI_Exp < 1 – CI_Exp 2-3	Syllable 1	–0.64	0.89	173	–0.71	.953
		Syllable 2	0.46	1.39	179	0.33	.997
	CI_Exp < 1 – CI_Exp 3-4	Syllable 1	1.08	1.10	178	0.98	.865
		Syllable 2	–1.58	1.73	185	–0.92	.890
	CI_Exp 1-2 – CI_Exp 2-3	Syllable 1	–0.47	0.67	176	–0.71	.955
		Syllable 2	1.72	1.05	183	1.64	.473
	CI_Exp 1-2 – CI_Exp 3-4	Syllable 1	1.24	0.94	181	1.33	.673
		Syllable 2	–0.33	1.46	189	–0.22	.999
	CI_Exp 2-3 – CI_Exp 3-4	Syllable 1	1.72	0.96	183	1.79	.381
		Syllable 2	–2.05	1.50	191	–1.37	.650
Triple-T3	NH = 3 – CI_Exp < 1	Syllable 1	3.24	0.92	353	3.52	< .01**
		Syllable 2	0.89	1.52	455	0.59	.977
	NH = 3 – CI_Exp 1-2	Syllable 1	3.84	0.60	371	6.44	< .001***
		Syllable 2	–0.48	0.98	480	–0.48	.989
	NH = 3 – CI_Exp 2-3	Syllable 1	3.12	0.63	354	4.93	< .001***
		Syllable 2	0.79	1.04	456	0.76	.943
	NH = 3 – CI_Exp 3-4	Syllable 1	5.44	0.99	353	5.50	< .001***
		Syllable 2	1.17	1.63	455	0.72	.952
	CI_Exp < 1 – CI_Exp 1-2	Syllable 1	0.60	1.05	358	0.57	.979
		Syllable 2	–1.37	1.73	462	–0.79	.933
	CI_Exp < 1 – CI_Exp 2-3	Syllable 1	–0.12	1.07	353	–0.12	1.000
		Syllable 2	–0.10	1.76	454	–0.06	1.000
	CI_Exp < 1 – CI_Exp 3-4	Syllable 1	2.20	1.31	353	1.68	.448
		Syllable 2	0.28	2.16	454	0.13	1.000

CI_Exp 1-2 – CI_Exp 2-3	Syllable 1	–0.72	0.81	362	–0.89	.900
	Syllable 2	1.26	1.33	467	0.95	.878
CI_Exp 1-2 – CI_Exp 3-4	Syllable 1	1.60	1.11	358	1.45	.597
	Syllable 2	1.65	1.83	461	0.90	.897
CI_Exp 2-3 – CI_Exp 3-4	Syllable 1	1.32	1.13	353	1.06	.240
	Syllable 2	0.38	1.86	454	0.21	1.000

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