

Supplemental Material S8. 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_Exp < 1, CI_Exp 1-2, CI_Exp 2-3, and CI_Exp 3-4) 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 | 146 | 3.75 | < .01** |
| | Tone | 3 | 5890 | 12.39 | < .001*** |
| | Chronological Age | 1 | 146 | 3.21 | .075 |
| | Group × Tone | 12 | 5897 | 2.20 | < .05* |
| | Group × Chronological Age | 4 | 146 | 1.70 | .153 |
| | Tone × Chronological Age | 3 | 5882 | 0.89 | .445 |
| | Group × Tone × Chronological Age | 12 | 5894 | 1.53 | .106 |
| Pitch curvature | Group | 4 | 152 | 2.83 | < .05* |
| | Tone | 3 | 5892 | 16.27 | < .001*** |
| | Chronological Age | 1 | 151 | 2.15 | .145 |
| | Group × Tone | 12 | 5900 | 2.02 | < .05* |
| | Group × Chronological Age | 4 | 152 | 2.2 | .072 |
| | Tone × Chronological Age | 3 | 5882 | 1.46 | .223 |
| | Group × Tone × Chronological Age | 12 | 5897 | 1.69 | .062 |

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