**Supplementary file 2: Summary of the mixed-effect model analyses on the song scores.**

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| **Syllable features (Main effect of age)** | |
| inter-syllable interval duration | *p*<0.0001 *F(3,38.2)*=13.8789 |
| syllable duration | *p*=0.5534 *F(3,37.7)*=0.7078 |
| Wiener entropy | *p*=0.0032 *F(3,37.8)*=5.4803 |
| pitch | *p*=0.8897 *F(3,37.7)*=0.2088 |
| mean frequency | *p*=0.1289 *F(3,38.6)*=2.0078 |
| peak frequency | *p*=0.0649 *F(3,38.6)*=2.6144 |
| goodness of pitch | *p*=0.2211 *F(3,38.1)*=1.5348 |
| FM | *p*=0.3279 *F(3,37.4)*=1.1867 |
| AM | *p*=0.5470 *F(3,37.4)*=0.7189 |
| **Standard deviation of syllable features (Main effect of age)** | |
| inter-syllable interval duration | *p*<0.0001 *F(3,25.4)*= 20.8043 |
| syllable duration | *p*=0.0064 *F(3,34.3)*=4.8560 |
| Wiener entropy | *p*=0.0021 *F(3,36.9)*=5.9192 |
| pitch | *p*=0.5824 *F(3,41.4)*=0.6583 |
| mean frequency | *p*=0.0132 *F(3,37.5)*=4.0891 |
| peak frequency | *p*=0.0280 *F(3,38.1)*=3.3787 |
| goodness of pitch | *p*=0.0621 *F(3,33.1)*=2.6910 |
| FM | *p*=0.0700 *F(3,33.2)*=2.5803 |
| AM | *p*=0.0982 *F(3,41.5)*=2.2367 |
| **Motif features (Main effect age)** | |
| song sequence stereotypy | *p*=0.0052 *F(3,38.4)*=4.7904 |
| % similarity | *p*=0.0251 *F(3,37.0)*=3.4890 |
| **Motif features (Main effect tutor)** | |
| song sequence stereotypy | *p*=0.1389 *F(7,7.3)*=2.3350 |
| % similarity | *p*=0.0159 *F(7,6.1)*=6.7597 |