**Supplementary material 2**

*Statistical output for the pitch distance.*

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| --- | --- | --- | --- | --- |
|  | **Estimate** | **Standard Error** | **t** | **p** |
| **Intercept** | 3.261 | 0.236 | 13.796 | < 0.001\*\*\* |
| **Age** | 0.045 | 0.028 | 1.593 | 0.127 |
| **Utterance type[Babble]** | -0.694 | 0.197 | -3.520 | < 0.001\*\*\* |

*Note.* Utterance type = babble or word, with the reference category between []; \*\*\*: p ≤ ‘0.001’, \*\*: p ≤ ‘0.01’, \*: p ≤ ‘0.05’, .: p ≤ ‘0.1’

*Statistical output for the intensity ratios.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Estimate** | **Standard Error** | **t** | **p** |
| **Intercept** | 1.030 | 0.009 | 115.786 | < 0.001 \*\*\* |
| **Age** | 0.001 | 0.001 | 0.809 | 0.427 |
| **Utterance type[Babble]** | -0.016 | 0.007 | -2.183 | 0.029 \* |

*Note.* Utterance type = babble or word, with the reference category between []; \*\*\*: p ≤ ‘0.001’, \*\*: p ≤ ‘0.01’, \*: p ≤ ‘0.05’, .: p ≤ ‘0.1’

*Statistical output for the duration ratios.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Estimate** | **Standard Error** | **t** | **p** |
| **Intercept** | 0.856 | 0.055 | 15.678 | < 0.001 \*\*\* |
| **Age** | 0.037 | 0.009 | 3.920 | < 0.001 \*\*\* |
| **Utterance type[Babble]** | -0.126 | 0.048 | -2.614 | < 0.009 \*\* |
| **Interaction: age\*utterance type[age\*Babble]** | -0.037 | 0.010 | -3.799 | < 0.001 \*\*\* |

*Note.* Utterance type = babble or word, with the reference category between []; \*\*\*: p ≤ ‘0.001’, \*\*: p ≤ ‘0.01’, \*: p ≤ ‘0.05’, .: p ≤ ‘0.1’

*Statistical output for the pitch distance: analysis on lexical subset with cumulative vocabulary as longitudinal predictor.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Estimate** | **Standard Error** | **t** | **p** |
| **Intercept** | 2.943 | 0.323 | 9.109 | < 0.001\*\*\* |
| **Cumulative vocabulary** | 0.002 | 0.003 | 0.785 | 0.454 |

*Note.* \*\*\*: p ≤ ‘0.001’, \*\*: p ≤ ‘0.01’, \*: p ≤ ‘0.05’, .: p ≤ ‘0.1’

*Statistical output for the pitch distance: analysis on lexical subset with chronological age as longitudinal predictor.*

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| --- | --- | --- | --- | --- |
|  | **Estimate** | **Standard Error** | **t** | **p** |
| **Intercept** | 3.254 | 0.264 | 12.315 | < 0.001\*\*\* |
| **Age** | 0.042 | 0.076 | 0.552 | 0.591 |

*Note.* \*\*\*: p ≤ ‘0.001’, \*\*: p ≤ ‘0.01’, \*: p ≤ ‘0.05’, .: p ≤ ‘0.1’

*Statistical output for the intensity ratios: analysis on lexical subset with cumulative vocabulary as longitudinal predictor.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Estimate** | **Standard Error** | **t** | **p** |
| **Intercept** | 1.029 | 0.011 | 90.643 | < 0.001\*\*\* |
| **Cumulative vocabulary** | 0.000 | 0.000 | 0.094 | 0.928 |

*Note.* \*\*\*: p ≤ ‘0.001’, \*\*: p ≤ ‘0.01’, \*: p ≤ ‘0.05’, .: p ≤ ‘0.1’

*Statistical output for the intensity ratios: analysis on lexical subset with chronological age as longitudinal predictor.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Estimate** | **Standard Error** | **t** | **p** |
| **Intercept** | 1.031 | 0.009 | 112.093 | < 0.001\*\*\* |
| **Age** | 0.000 | 0.003 | 0.063 | 0.951 |

*Note.* \*\*\*: p ≤ ‘0.001’, \*\*: p ≤ ‘0.01’, \*: p ≤ ‘0.05’, .: p ≤ ‘0.1’

*Statistical output for the duration ratios: analysis on lexical subset with cumulative vocabulary as longitudinal predictor.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Estimate** | **Standard Error** | **t** | **p** |
| **Intercept** | 0.648 | 0.049 | 13.349 | < 0.001\*\*\* |
| **Cumulative vocabulary** | 0.001 | 0.000 | 3.159 | 0.016 **\*** |

*Note.* \*\*\*: p ≤ ‘0.001’, \*\*: p ≤ ‘0.01’, \*: p ≤ ‘0.05’, .: p ≤ ‘0.1’

*Statistical output for the duration ratios: analysis on lexical subset with chronological age as longitudinal predictor.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Estimate** | **Standard Error** | **t** | **p** |
| **Intercept** | 0.858 | 0.067 | 12.843 | < 0.001\*\*\* |
| **Age** | 0.033 | 0.015 | 2.204 | 0.047\* |

*Note.* \*\*\*: p ≤ ‘0.001’, \*\*: p ≤ ‘0.01, \*: p ≤ ‘0.05’, .: p ≤ ‘0.1’