

**Supplemental Material S12.** Summary statistics of the Experiment 2 word stimuli characteristics using  $2 \times 4$  (Phoneme Type  $\times$  List) analyses of variance (ANOVAs).

| <b>Orthographic Characteristics</b> |                                 |                                  |                                 |                                 |                                 |                            |
|-------------------------------------|---------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------|
| <b>Stimulus lists</b>               | <b>Number of letters</b>        | <b>Orthographic neighborhood</b> | <b>Mean bigram frequency</b>    | <b>Number of friends</b>        | <b>Consistency ratio</b>        | <b>Word frequency</b>      |
| <b>E7<sup>a</sup> words</b>         |                                 |                                  |                                 |                                 |                                 |                            |
| <i>M</i> <sub>1</sub> ( <i>SD</i> ) | 4.20 (0.68)                     | 9.33 (5.27)                      | 2750.89 (1522.69)               | 12.07 (6.05)                    | 0.94 (0.13)                     | 8.43 (2.57)                |
| <i>M</i> <sub>2</sub> ( <i>SD</i> ) | 4.07 (0.46)                     | 11.07 (6.66)                     | 3217.27 (2087.79)               | 13.67 (8.58)                    | 0.95 (0.21)                     | 9.49 (1.75)                |
| <i>M</i> <sub>3</sub> ( <i>SD</i> ) | 4.20 (0.68)                     | 9.80 (5.20)                      | 3490.26 (2015.56)               | 13.40 (9.00)                    | 0.87 (0.26)                     | 8.83 (2.19)                |
| <i>M</i> <sub>4</sub> ( <i>SD</i> ) | 4.20 (0.41)                     | 11.60 (5.34)                     | 3884.36 (1787.24)               | 16.00 (8.07)                    | 0.87 (0.23)                     | 9.93 (2.03)                |
| <b>L7<sup>a</sup> words</b>         |                                 |                                  |                                 |                                 |                                 |                            |
| <i>M</i> <sub>1</sub> ( <i>SD</i> ) | 4.33 (0.65)                     | 11.33 (6.92)                     | 3235.04 (1233.19)               | 12.33 (8.43)                    | 0.78 (0.28)                     | 8.65 (3.29)                |
| <i>M</i> <sub>2</sub> ( <i>SD</i> ) | 4.33 (0.49)                     | 10.17 (6.89)                     | 4004.40 (1460.55)               | 9.17 (8.08)                     | 0.90 (0.23)                     | 9.89 (1.92)                |
| <i>M</i> <sub>3</sub> ( <i>SD</i> ) | 4.42 (0.51)                     | 11.17 (5.61)                     | 3639.29 (982.70)                | 15.50 (10.04)                   | 0.87 (0.18)                     | 8.33 (2.42)                |
| <i>M</i> <sub>4</sub> ( <i>SD</i> ) | 4.25 (0.45)                     | 13.83 (6.49)                     | 3592.93 (1410.94)               | 14.67 (10.04)                   | 0.82 (0.34)                     | 8.20 (3.12)                |
| Main effect <sub>Type</sub>         | $F(1, 100) = 2.42$<br>$p = .12$ | $F(1, 100) = 1.01$<br>$p = .32$  | $F(1, 100) = 0.79$<br>$p = .38$ | $F(1, 100) = 0.27$<br>$p = .60$ | $F(1, 100) = 1.83$<br>$p = .18$ | $F(1) = 0.75$<br>$p = .39$ |
| Main effect <sub>List</sub>         | $F(3, 100) = 0.20$<br>$p = .90$ | $F(3, 100) = 0.93$<br>$p = .43$  | $F(3, 100) = 1.09$<br>$p = .36$ | $F(3, 100) = 1.24$<br>$p = .30$ | $F(3, 100) = 0.56$<br>$p = .64$ | $F(3) = 1.30$<br>$p = .28$ |
| Type $\times$ List                  | $F(3, 100) = 0.20$<br>$p = .90$ | $F(3, 100) = 0.37$<br>$p = .77$  | $F(3, 100) = 0.53$<br>$p = .66$ | $F(3, 100) = 0.72$<br>$p = .55$ | $F(3, 100) = 0.53$<br>$p = .67$ | $F(3) = 1.05$<br>$p = .37$ |

*Note.* Word frequency was measured using log frequency from the HAL database, retrieved from the English Lexicon Project website (Balota et al., 2007).

<sup>a</sup>The stimuli for this study comprised either early- (E) or late- (L) developing consonant phonemes, with seven phonemes per group: E7 and L7.

**Supplemental Material S12. (continued)**

| Phonological characteristics        |  |  |  |  |
|-------------------------------------|--|--|--|--|
| Stimulus lists                      | Phonological neighborhood                  | Sum of phonotactic probability             | Sum of biphone probability                 | Spoken duration in ms                      |
| E7 <sup>a</sup> words               |  |  |  |  |
| <i>M</i> <sub>1</sub> ( <i>SD</i> ) | 24.93 (9.02)                               | 0.135 (0.037)                              | 0.004 (0.004)                              | 744.40 (29.03)                             |
| <i>M</i> <sub>2</sub> ( <i>SD</i> ) | 31.07 (10.66)                              | 0.142 (0.036)                              | 0.005 (0.002)                              | 731.13 (26.05)                             |
| <i>M</i> <sub>3</sub> ( <i>SD</i> ) | 26.20 (13.84)                              | 0.135 (0.030)                              | 0.004 (0.003)                              | 754.46 (36.26)                             |
| <i>M</i> <sub>4</sub> ( <i>SD</i> ) | 32.33 (8.98)                               | 0.150 (0.031)                              | 0.005 (0.002)                              | 754.80 (38.88)                             |
| L7 <sup>a</sup> words               |  |  |  |  |
| <i>M</i> <sub>1</sub> ( <i>SD</i> ) | 29.50 (14.79)                              | 0.132 (0.063)                              | 0.006 (0.006)                              | 762.08 (34.14)                             |
| <i>M</i> <sub>2</sub> ( <i>SD</i> ) | 34.92 (18.47)                              | 0.135 (0.051)                              | 0.006 (0.005)                              | 745.75 (33.58)                             |
| <i>M</i> <sub>3</sub> ( <i>SD</i> ) | 34.08 (17.65)                              | 0.135 (0.051)                              | 0.006 (0.006)                              | 761.83 (30.33)                             |
| <i>M</i> <sub>4</sub> ( <i>SD</i> ) | 30.83 (13.86)                              | 0.131 (0.048)                              | 0.005 (0.005)                              | 740.25 (50.87)                             |
| Main effect <sub>Type</sub>         | <i>F</i> (1, 100) = 2.00<br><i>p</i> = .16 | <i>F</i> (1, 100) = 0.76<br><i>p</i> = .38 | <i>F</i> (1, 100) = 1.92<br><i>p</i> = .17 | <i>F</i> (1, 100) = 0.84<br><i>p</i> = .36 |
| Main effect <sub>List</sub>         | <i>F</i> (3, 100) = 0.89<br><i>p</i> = .45 | <i>F</i> (3, 100) = 0.16<br><i>p</i> = .92 | <i>F</i> (3, 100) = 0.02<br><i>p</i> = 1.0 | <i>F</i> (3, 100) = 1.53<br><i>p</i> = .21 |
| Type × List                         | <i>F</i> (3, 100) = 0.55<br><i>p</i> = .65 | <i>F</i> (3, 100) = 0.23<br><i>p</i> = .87 | <i>F</i> (3, 100) = 0.22<br><i>p</i> = .88 | <i>F</i> (3, 100) = 1.13<br><i>p</i> = .34 |

*Note.* Word frequency was measured using log frequency from the HAL database, retrieved from the English Lexicon Project website (Balota et al., 2007).

<sup>a</sup>The stimuli for this study comprised either early- (E) or late- (L) developing consonant phonemes, with seven phonemes per group: E7 and L7.

**Reference**

Balota, D. A., Yap, M. J., Hutchison, K. A., Cortese, M. J., Kessler, B., Loftis, B., . . . Treiman, R. (2007). The English Lexicon Project. *Behavior Research Methods*, 39, 445–459.