**Supporting Information-S1**

Descriptive Statistics of Listening, Vocabulary, Perceptual, Cognitive and Metacognitive Profiles

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | *M* | *SD* | 95% *CI* | |
|  | Lower | Upper |
| A. Listening proficiency |  |  |  |  |
| TOEIC Total (90 points) | 48.9 | 10.1 | 46.9 | 50.9 |
| TOEIC Question-Response (30 points) | 18.4 | 3.7 | 17.3 | 19.0 |
| TOEIC Conversations (30 points) | 16.6 | 4.4 | 15.8 | 17.4 |
| TOEIC Monologues (30 points) | 14.3 | 3.9 | 13.6 | 15.0 |
|  |  |  |  |  |
| B. Vocabulary |  |  |  |  |
| Lexicosemantic judgement (80 points) | 50.1 | 5.8 | 49.1 | 51.2 |
| Lexicosemantic judgement (coefficient of variation) | −.075 | .202 | −.111 | −.039 |
| Phonological multiple choice (80 points) | 58.8 | 8.5 | 57.3 | 60.3 |
| Generalization multiple choice (80 points) | 58.7 | 8.6 | 57.1 | 60.5 |
| Euclidian distance (Talkers A vs. B) | 4.0 | 3.0 | 3.4 | 4.5 |
|  |  |  |  |  |
| C. Perceptual cognitive profiles |  |  |  |  |
| Working memory (forward; letters) | 7.2 | 1.4 | 6.9 | 7.4 |
| Working memory (backward; letters) | 5.8 | 1.5 | 5.5 | 6.1 |
| Auditory processing (formants) | 25.0 | 16.2 | 21.9 | 28.2 |
| Auditory processing (amplitude rise time) | 41.0 | 17.0 | 37.7 | 44.3 |
|  |  |  |  |  |
| D. Metacognitive profiles |  |  |  |  |
| Problem-solving (6 points) | 2.9 | 0.6 | 2.8 | 3.0 |
| Planning & evaluation (6 points) | 3.5 | 0.9 | 3.4 | 3.7 |
| Mental translation (6 points) | 2.8 | 1.0 | 2.6 | 3.0 |
| Person knowledge (6 points) | 2.3 | 0.8 | 2.1 | 2.4 |
| Directed attention (6 points) | 2.9 | 0.5 | 2.8 | 3.0 |
|  |  |  |  |  |

**Supporting Information-S2**

Descriptive Statistics of Phonologization, Generalization, and Automatization Scores as per Different Levels of L2 Listening Proficiency

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Low  (*n* = 27) | | | | Mid  (*n* = 61) | | | | High  (*n* = 38) | | | |
|  | *M* | *SD* | 95% *CI* | | *M* | *SD* | 95% *CI* | | *M* | *SD* | 95% *CI* | |
|  | Lower | Upper | Lower | Upper | Lower | Upper |
| Phonologization |  |  |  |  |  |  |  |  |  |  |  |  |
| PhonMCa | 51.4 | 6.5 | 48.7 | 54.0 | 59.6 | 8.0 | 57.6 | 61.7 | 62.3 | 7.3 | 59.9 | 64.8 |
| Generalization |  |  |  |  |  |  |  |  |  |  |  |  |
| Euclidian distanceb | 4.1 | 2.9 | 2.9 | 5.3 | 4.6 | 3.3 | 3.8 | 5.5 | 2.9 | 1.9 | 2.2 | 3.5 |
| Automatization |  |  |  |  |  |  |  |  |  |  |  |  |
| LJT−accuracyc | 44.8 | 3.8 | 43.3 | 46.3 | 49.9 | 5.0 | 48.6 | 51.2 | 54.0 | 5.3 | 52.2 | 55.7 |
| LJT−CV | .001 | .349 | −.136 | .139 | −.096 | .152 | −.135 | −.056 | −.076 | .155 | −.127 | −.025 |

*Note*. a for 80 points; b for PhonMC vs. GenMC; c for 80 points