**Supplementary Information**

*Descriptive statistics summarizing the performance on the discrimination test (A-prime scores) and production tests (mean accuracy).*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tasks | Group |  | Pre-test | | | | Post-test | | | | | | | |
|  |  |  | /l-/ʎ/ | /n/-/ɲ/ | /e/-/ɛ/ | /o/-/ɔ/ | /l-/ʎ/ | | /n/-/ɲ/ | | /e/-/ɛ/ | | /o/-/ɔ/ | |
|  |  |  |  |  |  |  | Repeated | Novel | Repeated | Novel | Repeated | Novel | Repeated | Novel |
| Perceptual discrimination | Trained | *M* | 0.73 | 0.70 | 0.64 | 0.79 | 0.72 | 0.72 | 0.75 | 0.79 | 0.61 | 0.64 | 0.78 | 0.76 |
|  |  | *SD* | 0.26 | 0.28 | 0.26 | 0.23 | 0.21 | 0.23 | 0.22 | 0.22 | 0.24 | 0.23 | 0.19 | 0.21 |
|  | Control | *M* | 0.73 | 0.75 | 0.63 | 0.76 | 0.71 | 0.70 | 0.76 | 0.82 | 0.64 | 0.61 | 0.77 | 0.77 |
|  |  | *SD* | 0.25 | 0.27 | 0.23 | 0.24 | 0.24 | 0.23 | 0.24 | 0.20 | 0.23 | 0.25 | 0.23 | 0.22 |
| Production | Trained | *M* | 0.18 | 0.74 | 0.23 | 0.51 | 0.32 | 0.28 | 0.81 | 0.82 | 0.22 | 0.25 | 0.56 | 0.64 |
|  |  | *SD* | 0.23 | 0.22 | 0.23 | 0.27 | 0.28 | 0.28 | 0.22 | 0.23 | 0.19 | 0.23 | 0.27 | 0.28 |
|  | Control | *M* | 0.22 | 0.73 | 0.24 | 0.47 | 0.30 | 0.32 | 0.77 | 0.78 | 0.28 | 0.32 | 0.52 | 0.62 |
|  |  | *SD* | 0.24 | 0.27 | 0.26 | 0.29 | 0.29 | 0.28 | 0.27 | 0.27 | 0.27 | 0.27 | 0.28 | 0.32 |

Note: The two contrasts /e/-/ɛ/ and /l/-/ʎ/ occurred during the training tasks, hence “trained contrasts”. The contrasts /o/-/ɔ/ and /n/-/ɲ/ only occurred in the tests and are thus “untrained”. In the post-test, there were two types of pseudowords: “repeated” items had occurred in the pre-test; “novel” items only occurred in the post-test.