**Supplementary file 12.** Statistical results of reaction times, accuracies, and mean ERP amplitudes (mean ± SD) in Experiment 5.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Patient** |  | **Actor/Actress** |
|  | **Neutral** | **Pain** |  | **Neutral** | **Pain** |
| **RT (ms)** | 633±69 | 637±65 |  | 652±72 | 660±69 |
| **Accuracy (%)** | 87±11.5 | 86±10.7 |  | 87±10.5 | 83±13.9 |
| **N1 amplitude (μV)** | -3.183±1.57 | -3.055±1.38 |  | -3.003±1.54 | -3.330±1.44 |
| **P2 amplitude (μV)** | 3.043±3.70 | 3.978±4.00 |  | 3.219±3.81 | 3.311±4.13 |
| **P310 amplitude (μV)** | 1.454±3.72 | 2.244±3.47 |  | 1.818±3.57 | 2.198±3.25 |
| **P570 amplitude (μV)** | 4.224±2.28 | 4.569±2.40 |  | 4.103±2.02 | 4.302±1.93 |
|  | **Statistic Value** | **rm-ANOVA** | **Simple effect (Identity)**  |
| **Value** | **Identity** | **Condition** | **Identity \* Condition** | **Patient** | **Actor/Actress** |
| **RT** **(ms)** | **F** | 23.988 | 3.243 | 0.401 |  |
| **P** | <0.001 | 0.082 | 0.531 |  |
| **ηp2** | 0.453 | 0.101 | 0.014 |  |
| **90% CI** | (0.215, 0.600) | (0, 0.280) | (0, 0.141) |  |
| **Accuracy** **(%)** | **F** | 1.669 | 9.449 | 3.983 |  |
| **P** | 0.207 | 0.005 | 0.055 |  |
| **ηp2** | 0.054 | 0.246 | 0.121 |  |
| **90% CI** | (0, 0.219) | (0.050, 0.429) | (0, 0.304) |  |
| **N1****(95-115ms)** | **F** | 0.127 | 0.541 | 3.834 |  |
| **P** | 0.724 | 0.468 | 0.060 |  |
| **ηp2** | 0.004 | 0.018 | 0.117 |  |
| **90% CI** | (0, 0.103) | (0, 0.154) | (0, 0.300) |  |
| **P2 (175-195ms)** | **F** | 4.614 | 11.983 | 9.494 | 17.409 | 0.270 |
| **P** | 0.040 | 0.002 | 0.004 | <0.001 | 0.607 |
| **ηp2** | 0.137 | 0.292 | 0.247 | 0.375 | 0.009 |
| **90% CI** | (0.003, 0.322) | (0.079, 0.470) | (0.050, 0.429) | (0.142, 0.539) | (0, 0.127) |
| **P310 (280-340ms)** | **F** | 1.021 | 22.976 | 1.651 |  |
| **P** | 0.321 | <0.001 | 0.209 |  |
| **ηp2** | 0.034 | 0.442 | 0.054 |  |
| **90% CI** | (0, 0.186) | (0.204, 0.592) | (0, 0.218) |  |
| **P570 (500-700ms)** | **F** | 1.039 | 5.094 | 0.362 |  |
| **P** | 0.317 | 0.032 | 0.552 |  |
| **ηp2** | 0.035 | 0.149 | 0.012 |  |
| **90% CI** | (0, 0.187) | (0.007, 0.335) | (0, 0.138) |  |

Note: Effect size is indexed as the partial eta-squared value. The 90% CIs are reported for partial eta-squared value.