**Supplementary material**

**Supplementary table 1.** Sample description.

|  |  |
| --- | --- |
| Sex | 13 females : 10males |
| Age (years) | 23.65 (3.23) a |
| Estimated IQ (MWT-B) | 102.90 (9.70) a |
| Right-handedness in % (Edinburgh Handedness Inventory) | 82.70 (18.39) a |

**a** mean (SD)

**Supplementary material**

**Supplementary table 2.** Rank correlation of WM and PPI (single sessions)

|  |  |  |
| --- | --- | --- |
|  | PPI (session 1)a | PPI (session 2) |
| n-back (session 1)b | .357 (p=.095) | .477 (p=.022) |
| n-back (session 2) | .330 (p=.124) | .649 (p=.001) |
| CDT (session 1)c | -.077 (p=.735) | -.040 (p=.859) |
| CDT (session 2) | .194 (p=.400) | .367 (p=.101) |

*Notes.* a PPI = pooled across intensity levels; b n-back performance = correct answers from 2-back minus 0-back condition; c CDT performance = number of correct answers across conditions (i.e., “change” and “no change”).

**Supplementary material**

**Supplementary table 3.** Correlation of PPI (76 dB) and WM (n-back) pooled

across sessions and controlled for prepulse EMG activity.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 0b | 2b | 2b-0b | 2b res. |
| PPI 76 dB | .61\*\* | .63\*\* | .64\*\* | .43\* |

Notes: Spearman-Rho is shown; \*\* = p<0.01; \* = p<0.05.

**Supplementary material**

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**Supplementary Figure 1.** PPI compared in females (N=12) compared to males (N=10). When tested by t-test for independent samples, no comparison was significant (alpha = 0.05; two-tailed). All p-values >0.11.