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| **Supplementary table S5** Sleep and reactivation parameter |
|  | High-PP cued (*n* = 11) | Low-PP cued (*n* = 11) | *t* | *P* |
| Duration (min) |  |  |  |
| N1 | 91.55 ± 20.02 | 65.64 ± 18.77 | 0.94 | 0.36 |
| N2 | 181.64 ± 11.61 | 200.55 ± 14.5 | -1.02 | 0.32 |
| N3 | 119.96 ± 15.11 | 99.46 ± 12.11 | 1.06 | 0.30 |
| REM | 57.91 ± 13.30 | 88.86 ± 9.87 | -1.87 | 0.08 |
| WASO | 16.96 ± 10.18 | 5.55 ± 1.19 | 1.11 | 0.29 |
| Duration (%) |  |  |  |  |
| N1 | 19.44 ± 4.18 | 13.98 ± 3.89 | 0.96 | 0.35 |
| N2 | 38.85 ± 2.56 | 43.77 ± 3.30 | -1.18 | 0.25 |
| N3 | 25.54 ± 3.16 | 21.55 ± 2.52 | 0.99 | 0.34 |
| REM | 12.40 ± 2.82 | 19.46 ± 2.20 | -1.98 | 0.06 |
| WASO | 3.71 ± 2.27 | 1.23 ± 0.27 | 0.28 | 0.29 |
| Number of reactivations |
| N2 | 61.00 ± 22.22 | 93.18 ± 24.62 | -0.97 | 0.34 |
| N3 | 266.18 ± 53.68 | 231.73 ± 34.43 | 0.54 | 0.60 |
| Slow wave detection |
| SW density (#/3s) | 1.87 ± 0.09  | 1.99 ± 0.13 | -0.76 | 0.46 |
| SW amplitude (µV) | 134.33 ± 14.28 | 107.78 ± 9.96  | 1.53 | 0.14 |
|  |

Data are means ± SEM. N1, N2: Non-REM sleep stages N1, N2 and N3; REM, rapid-eye movement sleep; WASO, wake after sleep onset; SW, slow wave; PP, phonotactic probability. *P*-values of statistical comparisons between groups by using unpaired *t*-tests. Note, no significant group differences, but a trend of significance for REM sleep parameters.