**Supplementary Material 3.** **Meta-regression analyses for motor memory consolidation after single practice.**

The results of meta-regression analyses investigating the influence of moderators such as methodological quality (i.e., risk of bias), disease duration (years), severity (Hoehn & Yahr) motor function (Unified Parkinson’s Disease Rating Scale -UPDRS- part III) on consolidation after single practice are presented in the table below. None of these moderators significantly affected consolidation (i.e., retention).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***Model*** | ***Independent variable*** | ***k*** | ***df*** | ***QModel / F*** | **R2** | **β** | ***p*** |
| ***1*** | ***Risk of Bias – study quality*** | 47 | 2 | 3.6250 | 0.06 |  | 0.1750 |
|  | 1. ***“Fair”***
 | 34 |  |  |  | -0.1026 | 0.9180 |
|  | 1. ***“Good”***
 | 5 |  |  |  | -0.1024 | 0.7020 |
|  | 1. ***“Poor”***
 | 8 |  |  |  | -0.3981 | 0.0670 |
| ***2*** | ***DD*** | 36 | 1 | 0.1134 | 0.00 | 0.0143 | 0.7460 |
| ***3*** | ***H&Y*** | 30 | 1 | 0.9273 | 0.00 | 0.2146 | 0.3710 |
| ***4*** | ***UPDRS*** | 27 | 1 | 0.4432 | 0.00 | -0.0083 | 0.5200 |
| ***5*** | ***DD \* UPDRS*** | 23 | 3-19 | 0.4784 | 0.16 |  | 0.6980 |
| ***6*** | ***H&Y \* UPDRS*** | 18 | 3-14 | 0.4710 | 0.31 |  | 0.6870 |
| ***7*** | ***Motor Skill Acquisition*** | 47 | 2 | 4.7548 | 0.18 |  | 0.1190 |
|  | 1. ***No difference***
 | 43 |  |  |  | -0.1834 | 0.2660 |
|  | 1. ***Favour of Control***
 | 3 |  |  |  | 0.3465 | 0.2030 |
|  | 1. ***Favour of PD***
 | 1 |  |  |  | -0.8772 | 0.1440 |
| DD, Disease duration; H&Y, Hoehn & Yahr score; UPDRS, Unified Parkinson’s Disease Rating Scale part III.  |