**eTable 15. Consensus on the reporting and experimental design of clinical and cognitive-behavioral neurofeedback studies (CRED)-nf-checklist.**

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| --- | --- | --- | --- |
| Domain | **Item #** | **Checklist item** | **Reported on page #** |
| **Pre-experiment** | | | |
|  | 1a | Pre-register experimental protocol and planned analyses | Article, p. 2, 4  Statistical Analysis Plan, pp. 9 – 12 |
| 1b | Justify sample size | Article, p. 6  Supplement 1, pp. 9 – 12 |
| **Control groups** | | | |
|  | 2a | Employ control group(s) or control condition(s) | pp. 5 – 6 |
| 2b | When leveraging experimental designs where a double-blind is possible, use a double-blind | Not applicable |
| 2c | Blind those who rate the outcomes, and when possible, the statisticians involved | p. 6 |
| 2d | Examine to what extent participants and experimenters remain blinded | p. 4 |
| 2e | In clinical efficacy studies, employ a standard-of-care intervention group as a benchmark for improvement | p. 5 |
| **Control measures** | | | |
|  | 3a | Collect data on psychosocial factors | Article, p. 6 - 7 |
| 3b | Report whether participants were provided with a strategy | Article, p. 5 |
| 3c | Report the strategies participants used | Supplement 2, pp. 6 – 7 |
| 3d | Report methods used for online-data processing and artifact correction | Supplement 2, pp. 9 – 10 |
| 3e | Report condition and group effects for artifacts | Not applicable |
| **Feedback specifications** | | | |
|  | 4a | Report how the online-feature extraction was defined | Article, p. 5Supplement 2, pp. 8 – 10 |
| 4b | Report and justify the reinforcement schedule | Article, p. 5Supplement 2, pp. 8 – 10 |
| 4c | Report the feedback modality and content | Article, p. 5 Supplement 2, pp. 8 – 10 |
| 4d | Collect and report all brain activity variable(s) and/or contrasts used for feedback, as displayed to experimental participants | Article, pp. 5, 7 Supplement 2, pp. 8 – 10 |
| 4e | Report the hardware and software used | Supplement 2, pp. 9 – 10 |
| **Outcome measures** | | | |
| Brain | 5a | Report neurofeedback regulation success based on the feedback signal | Article, pp. 9, 10 |
|  | 5b | Plot within-session and between-session regulation blocks of feedback variable(s), as well as pre-to-post resting baselines or contrasts | Article, pp. 9, 10 |
|  | 5c | Statistically compare the experimental condition/group to the control condition(s)/group(s) (not only each group to baseline measures) | Article, pp. 9, 10 |
| Behavior | 6a | Include measures of clinical or behavioral significance, defined a priori, and describe whether they were reached | Article, pp. 8, 9 |
|  | 6b | Run correlational analyses between regulation success and behavioral outcomes | Article, pp. 9, 10 |
| **Data storage** | | |  |
|  | 7a | Upload all materials, analysis scripts, code, and raw data used for analyses, as well as final values, to an open access data repository, when feasible | Not applicable |