Review by anonymous reviewer 1, 24 Feb 2025 15:24

I would like to thank the authors for their response letter. They have further improved their report significantly and addressed all my major concerns, with only two probably minor points remaining: Generality of improvements:

Comment
I appreciate that the authors are going to implement the reviewers' suggestions to use Bayesian statistics to quantify the evidence for null effects. However, why did they only specifically include the test in analysis plan A2.1? In the analysis plans A1, A2.2, A3 and A4, the outcome interpretations O1.2, O2.2.2, O3.1.2, O3.2.2, O4.1.2 and O4.2.2 also concern null effects, so they would also require Bayesian tests.

Response
Following the reviewer's suggestion, we modified the manuscript (*Study design* table) by including Bayesian statistics also in analysis plans A1, A2.2, A3 and A4.

Comment
Similarly, the new precise definition of the IOI for the MA analysis based on 1.5 SD around the mean RT is good. However, why is it specifically stated in A3.1 and A4.1 but not in A3.2 and A4.2? I think it should be clarified that these tests/criteria will be applied in all cases.

Response
We thank the reviewer for noticing this oversight. We modified the manuscript as suggested, by specifying the IOI for the MA analysis also in A3.2 and A4.2

Comment
Effect sizes:
Now that the authors have computed effect sizes using EROS data from Opt-3d, why does the study design table still say that "Effect size for EROS data is not computable"?

Response
We thank the reviewer for pointing out this oversight. We modified the study design table by replacing that part with the following sentence "Sample size estimation is based on previous EROS data (Colombari et al., 2024), on which similar analyses were performed."

I wish the authors all the best for this interesting study and look forward to their results.

Review by anonymous reviewer 2, 24 Feb 2025 09:37
I would like to thank the authors again for thoroughly addressing my concerns. I have no further comments and think the planned study will make a valuable contribution to the field.

We sincerely thank the reviewer for finding merit in our work.