

Dear Editors and Reviewer,

Thank you for your letter and for the reviewer's comments concerning our manuscript entitled "What emotion dimensions can affect working memory performance in healthy adults? A review" (ID: 64905). These comments are all valuable and very helpful for revising and improving our paper, as well as the important guiding significant to our researches. We have studied comments carefully and tried our best to make corrections. We hope that the revised manuscript is now suitable for publication.

Response to the reviewer's comments:

This is an advanced review on the influence of emotions on memory performance in healthy subjects. Authors deliver systematic evidence about the interference of emotional valence and arousal, and motivation on working memory. There is clear impact of the above factors, which is crucial in experimental settings and paradigm design. The present paper adds insight to the perspective of integrated processing of affective and cognitive stimuli. Authors are strongly encouraged to broaden the scope of their review in "Future directions" towards psychopathology by including 2-3 references and few sentences in that sense. My recommendation is to send the paper for careful language editing, as in some of the paragraphs English is inconsistent and confusing.

Response: We appreciate the reviewer very much for the comment. Considering the Reviewer's good advice, the suggestion to broaden the scope of the review towards psychopathology has been added in "Future directions". The following lines have been added in the manuscript:

"Finally, in the current review, we only summarized the studies pertaining to the effect of emotion on working memory in healthy adults. Nevertheless, there are many studies exploring the association between emotion and working memory among individuals with psychopathology (e.g., major depression, post-traumatic stress disorder, schizophrenia) [63-65]. Future study could broaden the scope of the review towards the impact of emotion on working memory in behavioral and neuroimaging research in psychopathology."

Moreover, we have the manuscript reviewed by the English language experts from American Journal Experts (AJE), a division of Research Square. We obtained an Editing Certificate, which could be verified on the AJE website (<https://secure.aje.com/certificate>) using the verification code EF4A-5A96-9706-FFA6-22B9. We also uploaded Non-Native Speakers of English Editing Certificate in the system.

Special thanks to you for your good comment!

Response to the Science Editor's comments:

The authors provided an updated review regarding the association between emotion and working memory among healthy adults. The topic is of study interest. As the

academic editor, my comments are listed below: 1. I agree with the comment of the reviewer, the section of "Future directions" needs to be enriched in contents. It would be better to present conclusions and future directions separately. 2. No tables or figures were provided in the manuscript. To improve the readability, please consider to summarize the important contents into tables or figures. 3. Careful language editing is required, as grammatical errors and ambiguities are found.

Response: Thank you very much for the comment.

For question 1, we have now enriched the content of the section of "Future directions" and presented conclusions and future directions separately in the manuscript.

For question 2, We have now summarized the unanswered questions regarding the effect of emotion on working memory into table.

For question 3, we have the manuscript reviewed by the English language experts from American Journal Experts (AJE), a division of Research Square. We obtained an Editing Certificate, which could be verified on the AJE website (<https://secure.aje.com/certificate>) using the verification code EF4A-5A96-9706-FFA6-22B9. We also uploaded Non-Native Speakers of English Editing Certificate in the system.

Special thanks to you for your good comment!

Response to the Company Editor-in-Chief's comments:

I recommend the manuscript to be published in the World Journal of Clinical Cases. Before final acceptance, the author(s) must add a table/figure to the manuscript. There are no restrictions on the figures (color, B/W). Before final acceptance, the author(s) must provide the English Language Certificate issued by a professional English language editing company. Please visit the following website for the professional English language editing companies we recommend: <https://www.wjgnet.com/bpg/gerinfo/240>.

Response: Thank you very much for the comment. We have now added a table summarizing the unanswered questions regarding the effect of emotion on working memory. Also, we have the manuscript reviewed by the English language experts from American Journal Experts (AJE), a division of Research Square. We obtained an Editing Certificate, which could be verified on the AJE website (<https://secure.aje.com/certificate>) using the verification code EF4A-5A96-9706-FFA6-22B9. We also uploaded Non-Native Speakers of English Editing Certificate in the system.

Speical thanks to you for your good comment!

We would like to express our great appreciation to you and reviewers for comments on our paper. Looking forward to hearing from you.

Yours sincerely,
Tianya Hou and Wenpeng Cai