

PEER-REVIEW REPORT

Name of journal: World Journal of Psychiatry

Manuscript NO: 64212

Title: The impact of SARS-CoV-2 on neuropsychiatric disorders

Reviewer's code: 05848970

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: Cuba

Manuscript submission date: 2021-02-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-02-14 02:33

Reviewer performed review: 2021-02-18 17:37

Review time: 4 Days and 15 Hours

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The authors aimed at reviewing the impact of SARS-CoV-2 infection on neuropsychiatric disorders using various published clinical articles on patients suffering with COVID-19. This topic is remarkably interesting and sheds lights on the possible immune dysregulation of the CNS by SARS-CoV-2 infection especially the long-term effects on COVID-19 patients which could lead to mental health disorders. Specifically, the authors pointed the fact that the explosive cytokine storm associated with SARS-CoV-2 infection could infiltrate the CNS and disrupt the Blood Brain Barrier (BBB) leading to immune cell migration into the CNS and causing further neurological damage. The consequences of this could be traceable to symptoms and signs such as depression, anxiety, mood alterations, psychosis, post-traumatic stress etc. It is also interesting that the authors propose an immunological pathway/mechanism of SARS-CoV-2 infection and neuropsychiatric manifestations. Overall, this mini-review is timely and up-to-date especially looking at the current COVID-19 pandemic and its consequences on the human health. The review is an eye opener to a new direction for studies on neurological manifestation associated to COVID-19. My other comments for corrections are in the manuscript. Please check.

Criteria Checklist for New Manuscript

Peer-Review 1 Title. Does the title reflect the main subject/hypothesis of the manuscript? Yes 2 Abstract. Does the abstract summarize and reflect the work described in the manuscript? Yes 3 Key words. Do the key words reflect the focus of the manuscript? Yes 4 Background. Does the manuscript adequately describe the background, present status and significance of the study? Yes 5 Methods. Does the manuscript describe methods (e.g., experiments, data analysis, surveys, and clinical trials, etc.) in adequate detail? N/A 6 Results. Are the research objectives achieved by the experiments used in this study? What are the contributions that the study has made for research progress in this field? N/A 7 Discussion. Does the manuscript interpret the findings adequately



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and appropriately, highlighting the key points concisely, clearly and logically? Are the findings and their applicability/relevance to the literature stated in a clear and definite manner? Is the discussion accurate and does it discuss the paper's scientific significance and/or relevance to clinical practice sufficiently? Yes 8 Illustrations and tables. Are the figures, diagrams and tables sufficient, good quality and appropriately illustrative of the paper contents? Do figures require labeling with arrows, asterisks etc., better legends? Yes 9 Biostatistics. Does the manuscript meet the requirements of biostatistics? N/A 10 Units. Does the manuscript meet the requirements of use of SI units? N/A 11 References. Does the manuscript cite appropriately the latest, important and authoritative references in the introduction and discussion sections? Does the author self-cite, omit, incorrectly cite and/or over-cite references? Yes 12 Quality of manuscript organization and presentation. Is the manuscript well, concisely and coherently organized and presented? Is the style, language and grammar accurate and appropriate? Yes 13 Research methods and reporting. Authors should have prepared their manuscripts according to manuscript type and the appropriate categories, as follows: (1) CARE Checklist (2013) - Case report; (2) CONSORT 2010 Statement - Clinical Trials study, Prospective study, Randomized Controlled trial, Randomized Clinical trial; (3) PRISMA 2009 Checklist - Evidence-Based Medicine, Systematic review, Meta-Analysis; (4) STROBE Statement - Case Control study, Observational study, Retrospective Cohort study; and (5) The ARRIVE Guidelines - Basic study. Did the author prepare the manuscript according to the appropriate research methods and reporting? N/A 14 Ethics statements. For all manuscripts involving human studies and/or animal experiments, author(s) must submit the related formal ethics documents that were reviewed and approved by their local ethical review committee. Did the manuscript meet the requirements of ethics? N/A

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Psychiatry

Manuscript NO: 64212

Title: The impact of SARS-CoV-2 on neuropsychiatric disorders

Reviewer's code: 05848970

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: Cuba

Manuscript submission date: 2021-02-11

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-03-22 01:00

Reviewer performed review: 2021-03-22 01:09

Review time: 1 Hour

Scientific quality	[<input checked="" type="radio"/>] Grade A: Excellent [<input type="radio"/>] Grade B: Very good [<input type="radio"/>] Grade C: Good [<input type="radio"/>] Grade D: Fair [<input type="radio"/>] Grade E: Do not publish
Language quality	[<input checked="" type="radio"/>] Grade A: Priority publishing [<input type="radio"/>] Grade B: Minor language polishing [<input type="radio"/>] Grade C: A great deal of language polishing [<input type="radio"/>] Grade D: Rejection
Conclusion	[<input checked="" type="radio"/>] Accept (High priority) [<input type="radio"/>] Accept (General priority) [<input type="radio"/>] Minor revision [<input type="radio"/>] Major revision [<input type="radio"/>] Rejection
Peer-reviewer statements	Peer-Review: [<input type="radio"/>] Anonymous [<input checked="" type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No

SPECIFIC COMMENTS TO AUTHORS

All comments and questions have been addressed satisfactorily.