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PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 85880

Title: Changes in neurotransmitter levels, brain structural characteristics, and their correlation with PANSS scores in patients with first-episode schizophrenia

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06100383
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Mexico

Author's Country/Territory: China

Manuscript submission date: 2023-05-31

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-06-04 13:36

Reviewer performed review: 2023-06-12 09:10

Review time: 7 Days and 19 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The PANSS is a common tool for clinically diagnosing and assessing schizophrenia, and is divided into five parts: positive and negative symptoms, cognitive functioning, arousal symptoms, and depressive mood. Patients with schizophrenia have abnormal brain glial cell activity, abnormal prefrontal, anterior cingulate, and striatal functions, and disrupted neurotransmitter secretion, and the degree of their lesions is related to the severity of their symptoms. This study is designed to explore the relationships between changes in neurotransmitters, brain structural characteristics, and the scores of the PANSS in patients with first-episode schizophrenia. The study is well display, and the results are interesting. The methods are described in detail. Overall, the manuscript is well written. Comments: 1. A short background should be added to the abstract. 2. In the abstract, the results section is too long. Please short it. 3. The references list should be edited carefully according to the journal's guideline. 4. Table should be double checked and moved to the end of the text.

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Reviewer's code: 06110803
Position: Peer Reviewer
Academic degree: MD, PhD
Professional title: Assistant Professor, Researcher
Reviewer's Country/Territory: Switzerland
Author's Country/Territory: China

Manuscript submission date: 2023-05-31

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-06-06 10:46

Reviewer performed review: 2023-06-14 01:10

Review time: 7 Days and 14 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This is an interesting study of relationship between changes in neurotransmitters and structural brain features with PANSS scores in patients with first-episode schizophrenia. In this study, the authors found that in patients with first-episode schizophrenia, DA levels increased, Glu and GABA levels decreased, the thickness of the corpus callosum increased, and these variables were correlated with PANSS scores. These findings are well discussed. The manuscript is requires a minor editing. No other specific comments.