

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Psychiatry*

**Manuscript NO:** 77288

**Title:** Emerging role of Psychosis in Parkinson's disease: from clinical relevance to molecular mechanisms

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05207387

**Position:** Editorial Board

**Academic degree:** DSc, PhD

**Professional title:** Professor

**Reviewer's Country/Territory:** South Korea

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-04-23

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-04-25 00:27

**Reviewer performed review:** 2022-04-25 00:31

**Review time:** 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" 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 Grade E: Do not publish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 type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous Conflicts-of-Interest: [ <input type="radio"/> ] Yes [ <input checked="" type="radio"/> ] No
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#### **SPECIFIC COMMENTS TO AUTHORS**

Thanks for recommending me as a reviewer. In this opinion review, authors summarized and analyzed the identification, screening, epidemiology, mechanisms, risk factors and therapeutic strategy of PD psychosis identified from current clinical evidence. PD psychosis tended to have negative influence on patients' quality of life and increase the burden of family caregiving. Screening and identification in early stage of disease is crucial for establishing tailored therapeutic strategies and predicting the long-term outcome. This review paper is well written. If you complete minor corrections, the quality of your research will be further improved. If the authors describe the conclusion section more clearly, it can help readers understand it. 1.

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**Peer-review model:** Single blind

**Reviewer's code:** 01761104

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Taiwan

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-04-23

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-04-30 00:58

**Reviewer performed review:** 2022-04-30 07:21

**Review time:** 6 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" 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 type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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## SPECIFIC COMMENTS TO AUTHORS

Development of Parkinson's disease (PD) psychosis may involve dysfunctional imbalance of neurotransmitters, structural and network changes, genetic profiles, and cognitive impairments. The therapeutic approaches for PD psychosis include reducing or ceasing the use of d dopaminergic drug, antipsychotics, cholinesterase inhibitors, and non-pharmacological interventions. Emerging research based on new biomarkers and genetic factors may facilitate a tailoring therapeutic strategy. The article is timely and important. This reviewer has some comments: 1. More comprehensive review is suggested; for example, while compounds based upon traditional theories have been limited in efficacy, more novel compounds based upon other theories deserve more studies. Here is one of the examples: there has been a clinical trial which indicates that activation of N-methyl-D-aspartate receptor glycine site temporally ameliorates neuropsychiatric symptoms of PD with dementia. 2. Extensive English editing is suggested too. Here is one of the examples: "Similarly, a cross-sectional study involving 805 PD patients showed that the use of DR agonists were associated with impulse control disorders (mainly pathological gambling and hypersexuality) [64]."

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**Peer-review model:** Single blind

**Reviewer's code:** 00784262

**Position:** Editorial Board

**Academic degree:** DSc, FRCP (C), MD

**Professional title:** Emeritus Professor, Professor

**Reviewer's Country/Territory:** Canada

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-04-23

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-04-30 12:41

**Reviewer performed review:** 2022-04-30 13:00

**Review time:** 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" 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 type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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<b>Peer-reviewer statements</b>	Peer-Review: [ <input type="checkbox"/> ] Anonymous [ <input checked="" type="checkbox"/> ] Onymous Conflicts-of-Interest: [ <input type="checkbox"/> ] Yes [ <input checked="" type="checkbox"/> ] No
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#### **SPECIFIC COMMENTS TO AUTHORS**

This is a thorough review of psychosis in Parkinson's disease. I see two issues: 1. When citing the literature, please distinguish treated from not treated PD patients since it is usually thought that Rx with DA agonists is the cause of PD psychosis. 2. The English needs a fair amount of improvement, in some sections more than in others. Please correct grammar, spelling, sentence construction and use of capital letters

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Reviewer's code:** 00784262

**Position:** Editorial Board

**Academic degree:** DSc, FRCP (C), MD

**Professional title:** Emeritus Professor, Professor

**Reviewer's Country/Territory:** Canada

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-04-23

**Reviewer chosen by:** Jia-Ru Fan

**Reviewer accepted review:** 2022-07-11 15:00

**Reviewer performed review:** 2022-07-11 15:10

**Review time:** 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" 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
<b>Language quality</b>	<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
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Peer-reviewer</b>	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [ ] Yes [Y] No

#### **SPECIFIC COMMENTS TO AUTHORS**

This is a very good review but requires further careful English editing.