

PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 65951

Title: Reduced paraoxonase 1 activities may explain the comorbidities between temporal lobe epilepsy and depression, anxiety and psychosis

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03709824

Position: Editorial Board

Academic degree: BSc, MSc, PhD

Professional title: Full Professor, Professor

Reviewer's Country/Territory: Libya

Author's Country/Territory: Thailand

Manuscript submission date: 2021-03-18

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2021-03-24 07:06

Reviewer performed review: 2021-04-05 17:18

Review time: 12 Days and 10 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 Grade E: Do not publish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 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 type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous
	Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No

SPECIFIC COMMENTS TO AUTHORS

Comments on manuscript no.: 65951 Title: Lowered paraoxonase 1 activities may explain the comorbidities between temporal lobe epilepsy or mesial temporal sclerosis and depression, anxiety and psychosis. The above manuscript is very well written and will help in understanding pathological link between temporal lobe epilepsy and psychiatric conditions. I have some comments: 1. Regarding various regression/multivariate analyses number of samples appears low. For examples, n=27 without comorbidities, n = 25 for mood disorders, n = 25 for psychosis etc. 2. The total number of patients mentioned in the abstract is 104, while in the results section on page 13, first para, the number of sum of patients on various drugs is >300. If this is a case of polypharmacy then how the correlation can be made by comparing drugs individually.

3. The word 'lowered' should be replaced with 'reduced' 4. Please mentioned nutritional factors and names of some chemicals in tobacco, which may induce seizures (page 17, 2nd para, last line). Is it nicotine or something else? 5. Did the authors find any effect of low PON1 activity on cognitive functions, as has been reported by others. 6. The authors should explain if they found any effect of the duration of treatment with AEDs or antipsychotics on PON1 and arylesterase activity.