

## ESPS PEER-REVIEW REPORT

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

**ESPS manuscript NO:** 28436

**Title:** Influence of different second generation antipsychotics on the QTc interval: A pragmatic study

**Reviewer's code:** 00504286

**Reviewer's country:** Taiwan

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2016-07-02 16:18

**Date reviewed:** 2016-07-17 10:51

| CLASSIFICATION                                    | LANGUAGE EVALUATION   | SCIENTIFIC MISCONDUCT                          | CONCLUSION   |
|---|---|--|--|
| <input type="checkbox"/> Grade A: Excellent       | <input type="checkbox"/> Grade A: Priority publishing                 | Google Search:                                 | <input type="checkbox"/> Accept                        |
| <input type="checkbox"/> Grade B: Very good       | <input checked="" type="checkbox"/> Grade B: Minor language polishing | <input type="checkbox"/> The same title        | <input type="checkbox"/> High priority for publication |
| <input checked="" type="checkbox"/> Grade C: Good |   | <input type="checkbox"/> Duplicate publication |  |
| <input type="checkbox"/> Grade D: Fair            | <input type="checkbox"/> Grade C: A great deal of language polishing  | <input type="checkbox"/> Plagiarism            | <input type="checkbox"/> Rejection                     |
| <input type="checkbox"/> Grade E: Poor            |   | <input checked="" type="checkbox"/> No         | <input checked="" type="checkbox"/> Minor revision     |
|   | <input type="checkbox"/> Grade D: Rejected                            | BPG Search:                                    | <input type="checkbox"/> Major revision                |
|   |   | <input type="checkbox"/> The same title        |  |
|   |   | <input type="checkbox"/> Duplicate publication |  |
|   |   | <input type="checkbox"/> Plagiarism            |  |
|   |   | <input checked="" type="checkbox"/> No         |  |

### COMMENTS TO AUTHORS

Indeed, previous reports have shown the prolongation of QTc after long-term treatment of SGAs, which has the propensity to produce Torsades de pointe arrhythmia. However, in this study, none of the SGAs investigated were found to produce QTc prolongation. Several comments were raised and shows in the following: (1)The data in this work were collected from the patients of Psychiatric Department. Although inability to use oral antipsychotics was declared in the manuscript, it is hard to exclude the possibility that patients took minor tranquilizers or anti-histamines. Those drugs may somehow mask any QTc prolongation caused by SGAs. (2)About 73 % of patient population was males in this study. Elevation of plasma beta-estradiol level may prolong QTc intervals. The proportion of male individuals tends to be higher and may cause negative results. Also, the patients' age, heart rate and electrolytes (e.g., serum potassium level) should be included in the manuscript. Heart rate may necessarily know if the patients have taken drugs with anticholinergic effect. (3)Is it possible to check plasma prolactin level during oral treatment of antipsychotic agents? (4)Perhaps notably, "acute" or short-term treatment of SGAs may not have adequate plasma level to block the



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rapid component of delayed rectifier K<sup>+</sup> current inherently in heart cells. Pharmacokinetic estimations for these SGAs should be evaluated carefully.



**ESPS PEER-REVIEW REPORT**

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

**ESPS manuscript NO:** 28436

**Title:** Influence of different second generation antipsychotics on the QTc interval: A pragmatic study

**Reviewer’s code:** 01205020

**Reviewer’s country:** Taiwan

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2016-07-02 16:18

**Date reviewed:** 2016-07-08 11:11

| CLASSIFICATION                                   | LANGUAGE EVALUATION  | SCIENTIFIC MISCONDUCT                          | CONCLUSION   |
|--|--|--|--|
| <input type="checkbox"/> Grade A: Excellent      | <input type="checkbox"/> Grade A: Priority publishing                | Google Search:                                 | <input type="checkbox"/> [ Y] Accept                       |
| <input type="checkbox"/> [ Y] Grade B: Very good | <input type="checkbox"/> [ Y] Grade B: Minor language polishing      | <input type="checkbox"/> The same title        | <input type="checkbox"/> [ ] High priority for publication |
| <input type="checkbox"/> Grade C: Good           | <input type="checkbox"/> Grade C: A great deal of language polishing | <input type="checkbox"/> Duplicate publication | <input type="checkbox"/> [ ] Rejection                     |
| <input type="checkbox"/> Grade D: Fair           | <input type="checkbox"/> Grade D: Rejected                           | <input type="checkbox"/> Plagiarism            | <input type="checkbox"/> [ ] Minor revision                |
| <input type="checkbox"/> Grade E: Poor           |  | [ Y] No  | <input type="checkbox"/> [ ] Major revision                |
|  |  | BPG Search:                                    |  |
|  |  | <input type="checkbox"/> The same title        |  |
|  |  | <input type="checkbox"/> Duplicate publication |  |
|  |  | <input type="checkbox"/> Plagiarism            |  |
|  |  | [ Y] No  |  |

**COMMENTS TO AUTHORS**

In this paper, the authors investigated investigate whether differential influence on the QTc interval exists among four second generation antipsychotics (SGAs) in 173 patients. They concluded that none of the SGAs under investigation led to QTc prolongation and no differences among the SGAs were found. This study is straightforward and generally well described. Methods are appropriate. I have the following minor comments for the authors. 1. Abstract: “AIM: To to investigate whether differential influence on the QTc interval exists among four second generation antipsychotics (SGAs) in.” Please correct “To to..” in “what”? 2. Discussion: Abbreviation (TdP) should be defined on their first appearance in the text. 3. Discussion: “as as accounted for in a previous publication..” Please correct “as as..”.