Reviewer’s report

Title: Psychotropic medication non-adherence and its associated factors among patients with major psychiatric disorders: A systematic review and meta-analysis

Version: 0 Date: 09 Jan 2019

Reviewer: Mihiretu Kebede

Reviewer's report:

Major comments

1. The manuscript needs to be proofread to avoid errors on choice of words and grammar.

2. The authors mentioned the used other sources of literature? What are these sources?

3. How was non-adherence measured from each study?

4. Were adherence and non-adherence pooled together? The outcome needs to be clearly defined.

5. Visual inspection of the funnel plots is not enough to assess publication bias. Assess publication bias with statistical tests.

6. The authors constructed funnel and confunnel plots. Why are the two funnel plots needed? None of these plots are explained.

7. Tabl 1 should contain how non-adherence was measured. Mention the scales used.

8. Please define adherence

9. What are RR and NR? Response Rate?

10. Novick et al. described the outcome as a continuous variable. Please describe the non-adherence continuous outcome with mean (SD) values as reported by the authors.

12. Why are qualitative studies included in the narrative syntheses? For example: Teferra et al., 2013, Iseselo et al., 2016, etc.

13. Check the objective of Iris Sher et al.

14. For studies with designs other than qualitative and case-control, mention the prevalence of non-adherence in Table 1, for example: in Iris Sher et al., S. Mohamed et al., F. Reed John, 2007, etc.

15. The size of the forest plots and the funnel plots are too small. The font sizes are also too small to read. Please resize the plots and increase the font sizes.

16. Add your references on the paragraph for "Clinical related factors"

17. The discussion needs to be improved. The authors compared the results with nearly no explanation of why a certain factor influences non-adherence.

18. The last paragraph of the discussion is not important.

Minor comments

1. Redraw PRISMA diagram. The texts within the current diagram are hidden and the arrows are not uniformly constructed.

2. On Table 1, correct the grammatical errors on the study aim of the S. Moritz et al, study.

3. Please adhere with PRISMA guideline.
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