Reviewer’s report

Title: Association between migraine and suicidal behavior among Ethiopian adults

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Reviewer: Raffaella Calati

Reviewer’s report:

The present study investigated the association between migraine and suicidal thoughts and behaviours in a sample of 1,060 outpatient adults in Ethiopia. The study is interesting; however it has some major critical issues: the methods are not sufficiently described and discrepant results have not been sufficiently discussed.

Some suggestions could improve the manuscript.

Throughout the manuscript (also in the title): I would put "suicidal thoughts and behaviours" and not only "suicidal behaviours".

Abstract

Results are not correctly reported since authors later (in the results) wrote that "When depression was added to the model, the association between migraine and suicidal behaviors was greatly attenuated and became statistically insignificant".

Background

The Background should report a deeper description of the literature.

It should firstly focus on suicide and then on migraines.

Authors should report estimates for other countries as well and not only Africa.

For a better flow, authors should focus before on "daily activities", describing migraines, and then on psychiatric disorders.

"Substance abuse, mood and anxiety disorders, depression, and suicidal behaviors" are not "neurological comorbidities" but psychiatric ones.

Authors have not mentioned all the previous studies reporting an association between migraine and suicidal thoughts and behaviours.
Minor remark: put "we sought to evaluate the extent to which migraine headaches are associated with suicidal behaviors" instead of "we sought to evaluate the extent to which migraine headaches are is associated with suicidal behaviors".

Methods

Were interviewers experts in psychiatry? Were migraines diagnosed by neurologists? Please, better explain these crucial points.

Inclusion and exclusion criteria should be described (e.g., other psychiatric disorders?).

It is not necessary to describe the diagnosis of depression and all depressive symptoms.

Results

Results are not clear because two strategies have been applied in the analyses: Authors considered all the patients and then separately considered patients without migraines and patients with them. At least they have to explain in the discussion how to interpret the discrepant results.

Discussion

Minor remark: please, correct "is significantly association".

Authors should report the comparison between present results and ones reported in high income countries.

Moreover, I think that literature should be better covered.

Among limitations Authors could add the use of self-report to assess suicidal thoughts and behaviours and discuss it.

**Are the methods appropriate and well described?**
If not, please specify what is required in your comments to the authors.

No

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

Yes

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.
No

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