Reviewer’s report

Title: Prevalence and Factors associated with Road Traffic Incident among Adolescents and Children in the Hospitals of Amhara National Regional State, Ethiopia

Version: 2 Date: 26 Jul 2018

Reviewer: Fiona Lecky

Reviewer's report:

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This is an interesting paper but several minor modifications are needed prior to publication

Firstly please replace Road Traffic Accident with the term Road Traffic Collision (RTC) or Road Traffic Incident (RTI) as per WHO recommendations throughout the paper.

In the abstract

Replace the second sentence with "the incidence of RTCs in LMICs such as Ethiopia is higher than in high income countries."

The purpose of the study to identify targets for prevention should be made clear in the abstract and in the introduction of the main text.

Replace the end of the first sentence of methods with 830 Ethiopian Children admitted to hospital between…. were surveyed

Please remove details of statistical packages / researcher training and ethical review which do not belong in the abstract

the methods section of the abstract should identify the factors of interest explored in the modelling.

The abstract results should give the odds ratios with 95% confidence limits for the factors identified as significant
Introduction

Grammar generally needs improvement, suggest review by a native English speaker. Clarify that the purpose of the study is to identify factors for prevention

Methods

Please clarify were children defined as being under 18 or under 16? Also the rationale for the risk factors selected for study.

The discussion is good but could also do with some work on English - the conclusion seems to erroneously want to target divorcees for prevention where their RTC prevalence was greatly reduced.

Finally the analysis should acknowledge that this is a hospital not a population based study and the findings in the latter type of analysis may identify different prevention targets. Also that some incident factors were not explored - speed, drink driving, type of road, vehicle condition

Table 1 - do no children live with both parents? Please clarify extent of single parent hood

Table 2 is confusing and I think just refers to the 186 children with RTC so should be relabelled.

Line 70 clarify the period of significant RTC rise

Line 89 - Considering the design effect of two - what does this mean?

Line 91/92 replace researches with studies and reference this statement

Line 108 replace were with was

Line 141/142 - double negative and meaning of sentence unclear - who were they educated by?

Line 144 clarify for RTC as cause of injury attendance versus other causes
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

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

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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