

Review of: "Factors Associated With Hospital Outcomes for Cases of Anemia in Pregnancy at a Regional Level in Burkina Faso"

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Potential competing interests: No potential competing interests to declare.

General - The manuscript needs editing for language and grammar

Specific section wise comments

Title

Authors should specify the study design in the title

Abstract

Methods

- Authors should explicitly specify the study design; merely mentioning a retrospective study won't help the readers
 make sense of what was done
- The study is more of a retrospective cohort design rather than a cross-sectional study, as the criteria for formation of study groups was on the basis of exposure, i.e., level of anaemia, and the outcome "unfavourable hospital outcome" happened at a later time point with a clear temporal relationship maintained. The authors should report it as a retrospective cohort study rather than a cross-sectional study

Results

As the study befits more into a retrospective cohort design, it is desirable if authors undertake survival analysis and report hazard ratios instead of odds ratios

Keywords

Kindly include more keywords, preferably MeSH terms.

Main manuscript

Methodology

Sample size estimation and power calculation



- As authors have not mentioned anything about the sample size estimation, it is desirable if they undertake a post-hoc
 power analysis and report it for various comparisons made, at least for the primary outcome of "unfavourable hospital
 outcome" for the mother and fetus entities
- Authors should report the manuscript using the STROBE guidelines for cohort studies

Variables

Including ongoing pregnancy as a favourable outcome doesn't make sense. Authors should think of excluding those cases where the pregnancy was ongoing from the study. Or at least undertake a sensitivity analysis in terms of reporting the robustness of results while including and excluding the ongoing pregnancy cases.

Data analysis

- As the study befits more into a retrospective cohort design, it is desirable if authors undertake survival analysis and report hazard ratios instead of odds ratios
- The authors should even think of undertaking a survival analysis for death as the outcome along with the reported primary outcome of "unfavourable hospital outcome," with anaemia being one of the independent variables, as death is a more hard outcome.

Ethical considerations

· Reference letter number and date of IRB approval should be mentioned in brackets

Results:

The reported overall maternal mortality ratio seems very high. Authors should kindly confirm the same and discuss it with the population-based maternal mortality ratio in the discussion section.

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