

# Review of: "Giardia lamblia infection And Associated Risk Factors Among Patients Who Are Seeking Stool Examination At Bule Hora University Teaching Hospital, West Guji Zone, Ethiopia"

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Potential competing interests: No potential competing interests to declare.

## Reviewers' comments

1. Many consider the name *Giardia duodenalis* to be the correct taxonomic name for this protozoan, as mentioned in the CDC. Please change *Giardia lamblia* to *Giardia duodenalis* throughout the whole manuscript.
2. The scientific name of the pathogen should be typed in italics.
3. Why are 137 patients seeking a stool examination? Is the author inviting participants to attend this examination for free? What is the reason to mention 'participants who are seeking stool examination' in this cross-sectional survey? Does it (this population) show different results compared to normal patients? In my opinion, please consider removing the phrase 'among patients who are seeking stool examination...' from the manuscript and use only the word 'patients' throughout the manuscript.
4. Please consider revising the introduction part to be written in a scientific way.
5. Please provide a reference for the sentence 'A human infection can be... as few as 10 cysts'.
6. When mentioning the genus *Giardia* alone, please type it in italics.
7. Method part: remove ' , which was funded in Bule Hora,' as it is not related to the study.
8. Please remove ' was founded 467 km from Addis Ababa' from the sentence.
9. What is the meaning of administrative kebeles? Please indicate.
10. Is the sentence ' the town has one general hospital .... 'related or significant for the study? If not, please remove it.
11. Please revise the sentence 'it also has a population of ...' to ' ....(name of city).... has a population of 281,237.'
12. What is the meaning of the sentence 'the number of study participants was determined by using an average of two months' worth of the last year report of patients sent for stool examination' ? Please revise.
13. Please consider revising the whole paragraph of sampling procedures; it is hard to understand. Please also provide a reference for sample size calculation too.
14. Please revise the sentence 'A chi square analysis was done'.
15. Please remove the sentence 'text, table, and charts were all used to present the findings'.
16. In the abstract, you mentioned 137 patients, but in the results, you mention 134 participated. Why not indicate only 134 participants in the abstract?
17. Please merge data from Table 1, 2, and 3 with Table 4. No need to separate.

18. Figure 1, please change *Giardia lamblia* to *Giardia duodenalis* and type in italic. Please also indicate the number of positive/negative. What is the West Guji zone? You have not mentioned the study area. Please confirm.
19. In Table 4, remove negative N. Please add tested N instead.
20. How does the author categorize patients' fingernails? Were they trimmed or not trimmed at the time of sample collection? How could this be associated with the positive result of Giardiasis in a cross-sectional study?
21. How about the age of participants?
22. Giardia can be detected using several laboratory techniques such as Ag detection test kits, molecular techniques which have more sensitivity and specificity than microscopic examination. Why not use another technique rather than a microscopic exam? Which fecal examinations were used? Simple flotation, formalin-ethyl sedimentation? Kato test? Or any other, please indicate. In the Methods.
23. Giardiasis is also considered a zoonosis. Using molecular detection would help to clarify. Please also discuss this point.
24. English and grammar should be carefully checked by an English native speaker before submission. The manuscript should be improved in a scientific way.