

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.

The manuscript "*Giardia lamblia* infection And Associated Risk Factors Among Patients Who Are Seeking Stool Examination At Bule Hora University Teaching Hospital, West Guji Zone, Ethiopia" addresses a relevant topic on the investigation of risk factors associated with *Giardia* infection in patients who arrived at health care for a fecal examination.

However, the writing of the manuscript needs substantial improvements. Some suggestions follow, but the text should be further revised.

Specific comments:

In abstract:

1. Results: "and patient finger nails". - Rewrite, because it is not the fact of having fingernails that is associated.

In introduction:

2. The first time the species appears in the text it must be written in full (*Giardia lamblia*), but the next time the genus must appear abbreviated (*G. lamblia* or *G. intestinalis* or *G. duodenalis*).

3. In: "*Giardia lamblia*, a flagellate protozoan also known as *Giardia intestinalis*" - Include as a synonym *G. duodenalis*.

4. In "group of parasitic protozoans known as *Giardia* infects both the small and large intestines of a variety of vertebrate hosts" - remove "both the small and large".

5. Rewrite the sentence: "The parasite can spread far and quickly in the community because mature cysts are infected when ejected there after person-to-person transmission occurs". It's not understandable.

6. "Although *G. lamblia* primarily infects humans, it can also infect dogs, cats, beavers, and other animals." This sentence is conceptually incorrect. Affinity for the host varies according to the infecting assemblage. Assemblages C and D of *G. lamblia*, for example, are considered host-specific for dogs. Rewrite the sentence.

7. "These creatures have cysts on their faces, which can infect humans and contaminate water." Rewrite.

In objective:

8. Review the objective of the summary and body of the text.

In discussion:

9. Incomplete sentence: "In a similar vein, this study's prevalence was lower than that of a".

10. I didn't understand. "The results of the current investigation showed that G. lamblia and maintaining food hygiene were related." Is the occurrence of infection related to food hygiene habits? I think it's related to carrying out food hygiene habits sometimes. Rewrite.

11. In the same sense, rewrite: "Furthermore, the findings of this study showed that hand washing before a meal was associated with a G. lamblia infection."

12. Rewrite, because it is not the fact of having fingernails that is associated: "the current study revealed that the patient's fingernails were significantly associated with G. lamblia prevalence among patients"

General comments:

1. The introduction is very poorly written. The text is very repetitive, with conceptual errors and unnecessary information. The author mentions a national survey carried out in Ethiopia, but does not present the main findings of this research.

2. In the methodology, after the sample calculation, the minimum N of 137 was determined to present statistical relevance. However, in the results, it is written that data was collected from 134 participants. Is that right?

3. No correlations were made between the data collected and demographic characteristics, or with data related to health, or with sanitary and environmental factors. All data collected must be correlated to investigate whether there is an association with the presence of the infection, acting as a risk factor. If the authors do not wish to establish these correlations, the data must be removed from the manuscript, as presented individually they do not make any relevant contribution.

4. Based on the diagnostic methodology used, the frequency is considerably high. Therefore, this limitation should be further discussed.

5. Rewrite the conclusion with the correct correlations. Remember that the correlation is being made with the infection.