

# Review of: "Assessment of Quality of drinking waterbased on the water quality index method in Hawassa Zuria Woreda, Sidama Regional State, Ethiopia"

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Potential competing interests: No potential competing interests to declare.

1.The introduction provides a comprehensive overview of the importance of water and the need for safe drinking water. However, it would be beneficial to provide more specific information about the current state of water quality in Ethiopia, particularly in relation to heavy metal contamination.

2.The methodology section lacks sufficient detail regarding the sampling and analysis techniques used. It would be helpful to include specific information on the equipment and procedures employed to ensure the accuracy and reliability of the results.

3.The results section presents the findings of the study, but it would greatly benefit from the inclusion of statistical analysis. Adding statistical tests and measures of variability would strengthen the validity of the results and enhance their interpretation.

4.The authors have done a commendable job in highlighting the significance of water quality assessment, especially in the context of Ethiopia. However, it would be helpful to provide more background information on the specific heavy metals chosen for analysis and their potential health effects.

5.The study area description lacks essential information such as population density and specific characteristics of the selected kebeles. Including these details would provide a better understanding of the study's context and help readers assess the generalizability of the findings.

6.The materials and methods section adequately describes the overall study design. However, it would be beneficial to include information on the sample size calculation and any assumptions made to determine the number of samples collected.

7.The introduction provides a comprehensive overview of the importance of safe drinking water and the potential health risks associated with heavy metals. However, it would be beneficial to include recent studies or data that support the claim of heavy metal contamination in the study area.

8.The study area description lacks information on the socioeconomic and demographic characteristics of the selected kebeles. Including these details would help readers understand the potential factors influencing water quality and access

in the study area.

9. The methodology section provides a clear description of the sampling and analysis procedures. However, it would be helpful to include information on the reliability and accuracy of the analytical methods used for heavy metal analysis.