

## **Predictors of adherence to COVID-19 prevention measure among communities in North Shoa Zone, Ethiopia based on health belief model: A cross-sectional study.**

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### **Abstract**

**Introduction:** Coronavirus disease 2019 (COVID-19) is an emerging respiratory infections and is known to cause illness ranging from the common cold to severe acute respiratory syndrome. At present, the disease has been posing a serious threat to the communities, and it is critical to know the communities' level of adherence on COVID-19 prevention measures. Thus, this study aimed to identify the predictors of adherence to COVID-19 prevention measure among communities in North Shoa zone, Ethiopia by using a health belief model.

**Methods:** Community-based cross-sectional study design was employed. A total of 683 respondents were interviewed using a structured and pre-tested questionnaire. The data were collected by using a mobile-based application called "Google form." Logistic regression was performed to analyze the data. Estimates were reported in adjusted odds ratios with 95% confidence intervals (CI) and a significant association was declared at p-value of less than 0.05.

**Result:** The overall adherence level of the community towards the recommended safety measures of COVID-19 was 44.1%. Self-efficacy (AOR = 0.23; 95% 0.14, 0.36), perceived benefits (AOR = 0.35; 95% 0.23, 0.56), perceived barriers (AOR = 3.36; 95% 2.23, 5.10), and perceived susceptibility of COVID-19 (AOR = 1.60; 95% 1.06, 2.39) were important predictors that influenced the adherence of the community to COVID-19 preventive behaviors.

**Conclusions:** In this study, the overall adherence level of the community towards the recommended safety measures of COVID-19 was relatively low. It is vital to consider the communities' self-efficacy, perceived benefits, perceived barriers and perceived susceptibility of COVID-19 in order to improve the adherence of the community towards the recommended safety measures of COVID-19.

**Keywords:** COVID-19, Adherence to COVID-19 preventive measures, North Shoa zone.

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## **BIOGRAPHY**

Mr Sisay Shewasinad Yehualashet is Assistant professor in the Department of pediatric and child health nursing in Government University at Debre Birhan University, Ethiopia. I have had trainings on Basic computer skills, Systemic review and Meta-analysis, R-software, SPSS, Stata 14 and Endnote. The training helped me to look on the ways enhancing problem identification, prioritization and implementations strategies to improve health services of a given community. My research interests were on Maternal and Child health, Reproductive health, Infections diseases, Non-communicable diseases, Quality of care, youth and adolescent health. I have published more than 21 article papers on reputed international and national journals. I participated on different qualitative and quantitative research.