# Review of: "Determinant of Vaccination Status among Children Under Five years in Mattu Town, Oromia Regional State, Ethiopia"

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Potential competing interests: No potential competing interests to declare.

**Background**: Vaccination prevents 2-3 million deaths from diphtheria, tetanus, and measles. The research conducted in Ethiopia showed that only 50% of children under five years old fully complete their vaccination. Therefore, this study aimed to assess the vaccination status and associated factors among children under five in Mattu town.

**Methods**: Structured questionnaires were used to collect data from 118 children in the study area. The Chi-square test of association and Binary logistic regression were used to assess the determinant factors of vaccination status among children under five years, and the data were analyzed using SPSS 20.

**Results**: Of a total of 118 children, only 68 (57.6%) completed the vaccination, and 50 (42.4%) of them did not complete their vaccination. The results from logistic regression revealed that the vaccination status of children under five years was significantly related to the marital status of the mother (Widowed: p-value: 0.007; CI: 1.701, 28.818), the educational status of the household head (non-formal education: p-value: 0.032; CI: 0.024, 0.848), the monthly income of the household (income>154.9 USD: p-value: 0.024; CI: 1.322, 48.460), and the residence area of the household (Urban: p-value: 0. 015; CI: 1.297, 10.981).

**Conclusions**: The findings of this study showed that marital status, educational status, income, and residence were the significant factors associated with the incomplete vaccination status among children under five. Therefore, there is an urgent need to fill the immunization gap in the area through vaccination campaigns by health offices, public health education, and, by extension, workers.

 [MY1]The Chi-square test of association and Binary logistic regression were used to assess the determinant factors of vaccination status among children under five years, and the data were analyzed using SPSS 20.

 [MY2]I recommend writing the findings without further explanation. For example, 'For marital status, 79 (66.9%) were married, 17 (14.4%) widowed, and 22 (18.6%) divorced/separated.

 [MY3]I recommend using words such as non-formal education instead of illiterate (very offensive and stigmatizing).

 [MY4]The authors should review the references to conform with the required referencing style. For example, some of the references do not have the title of the article.

I would also recommend a thorough grammatical check.