

# Vaccine dropout rate and associated factors among children age 12-23 months in Shewa Robit, Ethiopia



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## Biography

Sisay Shewasinad Yehualashet is Assistant professor in the Department of pediatric nursing in Government University at Debre Birhan University, Ethiopia. He is a graduate nurse of MadaWalabu University and MSc on child health nursing from Addis Ababa University and have clinical, academic and research experience for more than 9 years. I have had trainings on Basic computer skills, Systemic review and Meta-analysis, R-software, SPSS, Stata 14 and Endnote. His research interests were on Maternal and Child health, Reproductive health, Quality of care, youth and adolescent health. I have published more than 21 papers in reputed international and national journals. He participated on different qualitative and quantitative research.



## Abstract

**Background:** Vaccination is the administration of a vaccine, to help the immune system develop protection from a disease. However, children in Africa did not receive recommended vaccines. Many children are still susceptible to the vaccine preventable target disease. The objective of this study was to assess the magnitude of vaccine dropout rate and associated factors among children age 12-23 months.

**Methods:** Community based cross sectional study was implemented from April 5 to April 10/2019 with 432 mothers/caregivers' who have children 12-23 months of age were included in the study. Template was prepared and the data was entered, categorized, coded, and summarized using Epi data version 3.1 and analysis by using SSPSS version 21 for further analysis. Bivariate and multivariate logistic regression analysis was done to see the association of each category of variable with the outcome variable. Significance was checked at 95% CI with p-value <0.05.

**Result:** from the total 432 children 392(90.7%) were fully vaccinated and the BCG- Measles dropout rate were 9.3%. Occupation of mothers/caregivers being student (AOR: 0.075(0.006,0.971)), distance of time to reach health facility <15 minute (OR:15.617(2.06, 118.4) and ANC follow-up of mothers/caregivers(AOR:4.87(1.39,16.98)) were significantly associated to vaccine dropout rate.

**Conclusion:** The overall immunization dropout rate in Shewa Robit town was 9.3% in 2019.

time to reach health facility, ANC follow-up of mothers and occupation of mother were statistically significant predictors of vaccine dropout rate of children.

**Key words:** Vaccine, Dropout rate, Immunization, Children