

Introduction: In Uganda and Gulu district inclusive in the Financial Year 2012/2013, the BCG- Measles drop- out rate was 15% which was an increase from 12% in the previous financial year. (MOH- HMIS). This is contrary to the international target. Furthermore, in financial year 2011/2012, BCG- Measles drop- out rate was 21.3%, while DPT1- DPT3 drop out was 5.7 % (fairly within target). According to (UDHS 2012) immunization's drop out for DPT, Polio and Measles among infants of less than one year in 2012, 2013 and 2014 respectively were still high as: DPT 19.3%, 23% and 16.3%, Polio:36%, 33% and 40% and Measles:11.7%, 38% and 42% which does not meet the EPI target of 10% -6% drop. The study will seek to reduce the immunization drop-out rate to acceptable rate of 10%-6% and increase the immunization uptake services by mothers/care givers.

Objective: The objective of the study was to investigate immunization drop- out rates for Polio, DPT and Measles among children under one year of age in Aswa County and to investigate factors associated with immunization drop out.

Methodology: A cross-sectional survey was carried out on 219 households with children under One year of age in five parishes and twelve villages that were randomly selected from Aswa county–Gulu. Questionnaires were administered to mothers/caregivers to get Information on and socio-economic and demographic factors, health facility factors and Community factors and immunization status of children under two years. The Immunization drop- out rate and analysis of associations between immunization drop out rate and demographic and socio-economic factors were done SPSS 16.0.

Results: The immunization drop -out rates were 9.5% for Polio (3 doses), 30.6% for DPT (3 doses) and 34.7% for Measles vaccine. For completion of the immunization schedule, it was 79.5% for Polio, 71.2% for DPT and 57% for Measles. Long waiting time, age of respondents and absence of health workers were significantly associated with completion of DPT, Polio and Measles schedules.

Recommendation: Immunization drop out for DPT, Polio and Measles had increased and higher than previously reported. The absent of health workers in health facility discouraged mothers to take their children for immunization .The ministry of health (MoH), WHO, other health partners and stakeholders should design the relevant Strategy and implement immunization policy so as to increase immunization uptake services by mothers/care givers in Aswa County-Gulu district.