ABSTRACT

Background:

Immunization has lowered global incidence of the vaccine-preventable diseases targeted under the global Expanded Programme on Immunization (EPI). The World Health Organization (WHO) estimates that 2.5 million children under the age of five die from vaccine-preventable diseases each year [1]. The highest rates of under-five mortality are in Sub-Saharan Africa and Southern Asia [2]. The Kenya Demographic and Health Survey (KDHS) 2008-09 showed that only 77% of children aged between 12-23 months were fully immunized according to the KEPI schedule. This coverage was below the WHO recommended national immunization coverage of 90%. The objective of this study was to determine the relationship between health system inputs and the immunization dropout status among children aged 12-23 months seeking health care services in Narok North district.

Methods:

This was a cross-sectional study. Multi-stage sampling method was used to select 291 children aged 12-23 months brought to health facilities for services and whose mothers consented to participate in the study. Data were collected using pre-tested structured questionnaires, focus group discussions (FGDs) and key informant interviews (KIIs).

Results:

The means of transport used to access the health facility, maternal knowledge of vaccinepreventable diseases, health education to mothers, walking distances to health facilities, number of health workers and vaccine stock-outs were the factors that were related to the dropout status of children.

Conclusions and Recommendations:

Access to immunization services was still a major factor contributing to children dropping out before completion of the recommended immunization schedule. Maternal knowledge on vaccine-preventable diseases needs to be enhanced. Inadequate health education, inadequate number of health