malaria consortium

disease control, better health

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Introduction

Mass distribution is the best method to rapidly scale up long lasting insecticidal net (LLIN) coverage, while continuous distribution systems are essential to sustain the results achieved. Ghana has recently engaged in a massive effort to scale up malaria prevention using mass distributions, aiming at reaching universal access to LLINs for the general population (one net for every two persons). In the Eastern Region, mass

LLIN distributions took place in December 2010 and April 2011, supported by the National Malaria Control Programme (NMCP) and implementing partners. A set of continuous distribution activities was piloted in Eastern Region, where nets are being distributed through antenatal clinics (ANC), the Child Welfare Clinic (CWC) under the expanded programme on immunisation (EPI) and through primary schools.

Methods

This evaluation was designed to provide a critical review of the process of LLIN continuous distribution through the various delivery mechanisms, to identify best practices, achievements and lessons learned in the Eastern Region, after a few months of implementation. The results were expected to inform the NMCP and partners for the scale up of LLIN continuous distribution in Ghana.

This was a retrospective and cross sectional process evaluation covering all levels of implementation, including the national, regional, district, sub-district, and community levels. Existing literature, guidelines, and tools developed and used in Ghana were reviewed. The fieldwork consisted of collecting qualitative data through key informant interviews, feedback sessions and direct observations. The sampling method of districts, health facilities and schools was purposive, based on accessibility criteria (a mix of easily accessible and hard-to-reach districts and communities) and stakeholder advice. Two districts were selected. Data was collected by a team composed of NetWorks project officers and Eastern Regional Health Team members. Stakeholders interviewed in this evaluation were as follows:

National:

- NMCP: Malaria Entomologist and Zonal Programme Officer
- School Health Education Programme (SHEP) **Project Officers**
- DELIVER Project and Manager of the Central Medical Stores
- NetWorks Project Officers

Regional: HEALTH

- Regional Deputy Director of Public Health Regional Health Directorate
- Regional Health team
- Regional Medical Stores and Supply Manager
- Regional Health Information Officers

EDUCATION

- Regional SHEP Coordinator Ghana Education Service
- Regional Supply Officer Ghana Education Service

District 1 (Atiwa):

HEALTH

- Health Workers of 1 health centre, 1 community health post and 1 Government hospital
- District public health nurse
- EDUCATION
- SHEP Coordinator and 1 Circuit Supervisor
- District Supply Officer

COMMUNITY (Akedewaso)

Informal discussions with community members (households and queen mother)

District 2 (Kwaebibirem):

- HEALTH
- District Health Team
- Health Workers, Community Health Post EDUCATION
- District SHEP Coordinator
- 1 Private School

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Continuous distribution of LLINs through primary schools and health facilities in Ghana: Process evaluation of the pilot in the Eastern Region

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Results

Summary of key successes, best practices, weaknesses and lessons learnt

Health facility based distribution

SUCCESSES AND BEST PRACTICES:

Coordination: Effective central coordination through the ITN natio leadership by the NMCP ensured a commendable implementation o *Adoption of available tools and systems: Existing tools for data co adopted and used to record LLIN distributed. This enabled data bein be reported through all levels to the central level, using the already Management System

WEAKNESSES:

Training: Many participants at the training were not the ones mar facility. Against the expectation and agreed process, trainees did not colleagues at health facilities in most cases. Also many store manage involved in the orientation meetings and the trainings sessions at di Supply chain management: Significant delays in LLIN shipments fr districts in the Eastern region were reported, and mostly attributed partners. Also, communication between operational levels in the reg movements of LLIN, resulting in a lack of effective follow up of LLIN storage space where needed

***Data collection and reporting:** Because untrained health workers distributed, there is no standardisation of data collection and report improper reporting to the central level and an underestimation of LI

LESSON LEARNT:

*Revision of training methods and procedure: Trainings will be cor the-job' instead of bringing personnel together, out of the facilities will ensure that all personnel who will be involved in the LLIN distrib orientation, and that all the real and practical issues related to distri





BLOOMBERG SCHOOL of PUBLIC HEALTH

	School based distribution
	SUCCESSES AND BEST PRACTICES:
onal committee and "vibrant" of the pilot ollection at ANC and CWC were og collected at health facility level to existing Health Information	Coordination: There was a high level of enthusiasm
	because traditionally, less attention and fewer resourd
	commitment amongst the education authorities and e
	Schools as an effective channel for behaviour chan
	children, using their already effective methods and ap
	the proper use of LLIN. Materials were developed for
	teachers initiated the progressive introduction of key
haging the LLIN distribution in the t provide orientation for their ers at all levels were not sufficiently istrict level rom the Central Medical Store to the to contracting issues between gion was lacking during the movements and arrangement of were recording data on LLIN ting across health facilities, leading to LIN distributed	 WEAKNESSES: Validation of supplies: Quantities of LLIN needed perschool-based distribution were overestimated, leading was due to lack of data validation at all levels using the as required by the agreed process and guidelines Private schools engagement: The lack of early engaged to the private-run schools' lack of understanding of school registrant data, and late inclusion of some privite-informing parents on concept: School teachers face some parents did not understand why some children
nducted in health facilities and 'on- for a didactic training session. This oution are provided proper bution are discussed and addressed	 LESSON LEARNT: BCC materials to be adapted for children's use: The were effectively shared with children, teachers and ot materials with the same messages, but in simple and children and schools. These materials are expected to

Conclusions

The implementation process of the LLIN continuous distribution pilot in the Eastern Region is commendable. All 21 districts were supplied with LLINs to be distributed through schools and health facilities. During the rollout of the activities, a key weakness impacting on effectiveness and community satisfaction for both channels was the misunderstanding of the concept of "continuous distribution", especially with the recent past mass LLIN distribution campaigns that were intended to achieve universal coverage. This confusion was systematically found at community level among health facility clients and parents of targeted children, as well as among some health workers who thought this distribution

was following up to the last mass campaign, to reach households that did not benefit.

The school-based distribution channel was particularly popular among informants. Implementation appeared easier in every aspect and involvement of the officers of the education sector was high. On the other hand, the effectiveness of the health facility-based channel relies on the existing supply chain of medical commodities, thus is likely to be affected by current weaknesses of the health system. The effective integration of LLINs as a malaria commodity is critical to ensuring a continuous flow of LLINs distributed through health facilities to households. Although these







for the LLIN distribution activities in the education sector ces are directed to this sector. This resulted in high effective coordination with the health sector nge: It was easy for primary school teachers to educate the pproaches, on the cause of malaria, how to prevent it, and

behaviour change communication (BCC) and some malaria messages into the daily curriculum

per schools, circuits, districts and region as a whole for the

ng to excess nets remaining at stores after distribution. This ne Education Management Information System (EMIS) data,

agement and involvement of authorities of private schools of the continuous distribution concept, not willing to share vate schools in the distribution exercise

ed complaints from parents after the distribution, because received nets and others did not

ough messages on cause of malaria and proper net use ther education authorities were of the view that BCC less complex formats, should be developed and shared for further reinforce the messages that the teachers pass on

two channels are implemented independently from each other to a great extent, there are some opportunities for cost sharing and integration, such as community sensitisation and advocacy, movement of LLINs from the Central Medical Store, and supervision visits for school distributions to include members of the health team at all levels. Considering the closing of the NetWorks project in the coming year (2014), it is urgent that the sustainability of the continuous distribution system is considered. Based upon the key weaknesses and challenges identified during this process evaluation, recommendations were provided to the programme.

