Using baseline assessment results in Malawi to identify innovative supply chain interventions for improving product availability for community case management

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SC4CCM **Project Goal** and Objectives:



Goal: To demonstrate that it is possible to overcome the supply chain constraints to effective community-based treatment of common diseases of childhood at scale.

Objective: To test, learn and identify supply chain solutions that will improve product availability at the community level; and then to work closely with Ministries of Health,

SC4CCM Focus Diseases, Programs, and Commodities

- Pneumonia amoxicillin or cotrimoxazole
- Diarrhea ORS and Zinc
- Malaria ACTs
- Malnutrition RUTF
- Family Planning (when included in CCM) – Contraceptives In Malawi our key products were cotrimoxazole, Coartem[®] and ORS



and supply chain and CCM implementing partner to scale up successful supply chain solutions in three sub-Saharan African countries.



CCM product supply chain

CCM Supply Chain Baseline Assessment

Methods

Quantitative:

• Facility and CHW based survey (LIAT) using mobile phones and EpiSurveyor

Qualitative:

• Logistics system assessment workshop (LSAT)

LIAT Results

Product Availability at HSA and Higher Levels

Green dots show CCM products in stock, red/yellow dots show at least one CCM product stocked out.



Product Availability at Resupply Points: High correlation with HSA product availability



HSA's Knowledge SC Processes: Standard procedures are not followed

HSA Motivation: Most HSA's report high job satisfaction



Access to Communication Technology: Resupply points and HSAs have access



• Products being assessed are not maintained in full supply - there is short supply at central level and inadequate funding at district levels



89.8%

- 89% of HSAs who manage health products and their resupply point BOTH have mobile phones • **12%** both HSA and resupply point have network coverage at work all the time, 67% at least sometimes **Transport between HSA**
 - and Resupply Point: Most HSA's face obstacles--distance and road conditions



• Delays in procurement due to lack of capacity/ bureaucracy, poor quantification, logistical constraints and poor planning

• LMIS reports at the central level do not provide information on stock status at the HSA level

Many additional findings

Of the HSAs who manage health products 34% had the 3 tracer drugs* in stock on the day of visit

Only about 1/3 of HSAs had the health products needed to treat all 3 common childhood illnesses (pneumonia, diarrhea, and malaria) meant to be treated under the current CCM program on the day of visit

* cotrimoxazole, Coartem 1x6 and/or Coartem 2x6, ORS **Eventhough Nkatabay appears to have low product availability district policy does not allow HSA's to manage Coartem

Conclusions Using Results to Design Interventions **Baseline Results Discussed in Various Forums Following Analysis** • In-country stakeholder meetings in Malawi • Expert group meetings in US • Wide variety of potential ideas for SC improvement were discussed



Supply Chains Community Case Management

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Almost 90% who manage products depend on bike or foot travel on dirt roads
79% of HSAs use bikes; 11% go by foot; 9% use public transport; and 1% use motorbike.

Intervention Ideas Under Discussion with Malawi

Product Availability at Resupply Points:

• Commitment to full supply of CCM products among partners (MOH & partners) • Decentralize quantification and funds

Transport

• Vouchers for bike maintenance

• Motorbikes for delivery

Visibility of data and data quality

• Use of SMS and internet interfaces to have data visible throughout the supply chain

Motivation

• Public recognition of good performance (e.g. reporting) • Performance based financing