

Institutionalizing Supply Chains for Community Case Management

January 23, 2024

Co-hosted by the Institutionalizing iCCM and Commodities Subgroups of the Child Health Task Force



Speakers



Dr. Madeleine Ballard, CEO, Community Health Impact Coalition & Asst. Professor, Icahn School of Medicine at Mount Sinai



Grace Adeya, Task Order Director, Malaria - USAID Global Health Supply Chain Program-Procurement and Supply Management (GHSC-PSM) Project





Lusubiro Mwamsamali, Manager, Global Technical Team, VillageReach



COMMUNI SUPPLY Stock-outs of Essential Medicines among CHV/stin LNICs - Systematic Literature Keview

Dr. Madeleine Ballard, CEO, CHIC



WHAT TO EXPECT.

We'll cover:

- 1. Context
- 2. Objectives & methods
- 3. Results
- 4. Implications

joinchic.org/resources/supply-chws/

 Ianiran et al. Human Resources for Health
 (2022) 20:58

 https://doi.org/10.1186/s12960-022-00755-8

RESEARCH

Stock-outs of essential medicines among community health workers (CHWs) in low- and middle-income countries (LMICs) a systematic literature review of the extent, reasons, and consequences

Abimbola Olaniran¹, Jane Briggs², Ami Pradhan³, Erin Bogue⁴, Benjamin Schreiber⁴, Hannah Sarah Dini⁴ Hitesh Hurkchand⁴ and Madeleine Ballard^{5,6*}

Abstract

Background: This paper explores the extent of community-level stock-out of essential medicines among com nity health workers (CHWs) in low- and middle-income countries (LMICs) and identifies the reasons for and cor quences of essential medicine stock-outs.

Methods: A systematic review was conducted and reported in line with the Preferred Reporting Items for Sys Reviews and Meta-Analyses (PRISMA) guidelines. Five electronic databases were searched with a prespecified and the grey literature examined, January 2006–March 2021. Papers containing information on (1) the per-Vs stocked out or (2) reasons for stock-outs along the supply chain and consequences of stock-out ised for risk of bias. Outcomes were quantitative data on the extent of stock-out, summ

Human Resources fo

Open /

iCCM: POSSIBILITIE S&STOCK-OUS iCCM can reduce child deaths by up to 60%

Stock-outs undermine this possibility, lead to adverse outcomes.

To solve the problem we must understand its:

- Extent
- Cause
- Consequences



OBJECTIVE & Objective: assess the extent of, consequences, and causes of stock-outs at community level.

- Systematic review (PRISMA guidelines)
- 5 databases & grey literature, January 2006–March 2021
- All papers appraised for risk of bias
- Outcomes:
 - *quantitative* data on stock-out extent (descriptive statistics)
 - o *qualitative* insights into reasons & consequences (thematic content analysis & narrative synthesis).

RESULTS: EXTENT.

The research concluded that the stock-outs are bad, getting worse, & that there are particular barriers at the last mile.

1083 record screened, 78 evaluations included

- 62,372 CHWs
- 2,383 health centers

Barriers at the last mile:

- CHW stock-outs: 28.93% [CI 95%: 28.79–29.07]
- vs. (p < 0.01)
- Health center: 9.17% [CI 95%: 8.64–9.70]

Essential medicine stock-outs in LMICs appear to be on the rise: 48.65% in last 5 years vs previous 10.



RESULTS: CAUSES OF STOCK-

Stes were identified across various stages of the supply chain.

PROCUREMENT

Funding. National forecasting. Delayed procurement due to governance structures.

DISTRIBUTION

Lack of CHW-specific distribution policy. Coordination between levels. Fragmentation.Challenging terrain.

→WAREHOUSING/STORAGE

Inadequate/improper storage space.

INVENTORY MANAGEMENT

Poor data management and stock planning. Accountability.

THE IMPACT ON PATIENTS & CHWS.

The consequences of stockouts included:

- interruptions to iCCM
- delays
- out-of-pocket expenses
- insufficient treatment
- dosing practices that increased the risk of medicine resistance



THE ROAD AHEAD.

Community-level stock-outs of essential medicine constitute a serious threat to achieving universal health coverage (UHC).

WHAT NEXT?

- Integrated donor financing: 1 budget, 1 plan, 1 report
- Count CHWs
- Policies that support last mile distribution
- Leverage mobile: stock management tools for CHWs



ANY QUESTIONS

DR. MADELEINE BALLARD

Co-founder & CEO

madeleine.ballard@joinchic.org Whatsapp: +1 617 398 7685 Mobile: +44 7868 643748

JOINCHIC.ORG



USAID GLOBAL HEALTH SUPPLY CHAIN PROGRAM

Procurement and Supply Management









Effective Community Level Supply Chains For iCCM And Malaria: Overview



PHOTO CREDIT: GHSC-PSM | Zen Photography Madagascar

 We need flexible and resilient supply chains that can deliver quality health products, including malaria commodities, to CHWs and the communities they serve to realize our objectives for Integrated community case management (iCCM).

Effective Community Level Supply Chains For iCCM And Malaria: Overview

- As part of the U.S. President's Malaria Initiative (PMI) five-year strategy to reduce malaria mortality and morbidity and bring more countries toward malaria elimination, PMI identified strengthening community health systems as essential
- <u>Effective Community Level Supply Chains for ICCM</u> and Malaria

Advocacy paper reflects on overarching challenges, raises awareness of best practices, and provides recommendations to help strengthen community level supply chains



Specific supply chain challenges of communities and CHWs that need to be addressed



CAPACITY

- May be regulatory or programmatic limits on services or products offered
- CHWs frequently have limited formal education and training
- CHWs may not be proficient in "national" language (so materials may need to be in "local" languages)



INFRASTRUCTURE

- Poor conditions for product Often hard to reach
- Limited infrastructure (roads, electricity, internet) storage
- CHWs are often required to travel to collect supplies



PROGRAMMATIC

- CHWs status as part of the health system may be unclear
- Lack of remuneration
- Often weak health systems and limited data visibility

What are the key recommendations for effective community level supply chain?

Ensure that supportive policies and systems exist and are documented

- CHWs List of Health Products
- Tools and Forms
- A document on the structure of the community-level supply chain
- -Written SOPs

Strengthen supply chain systems and processes

- Forecasting and Supply Planning
- Inventory Management
- Systems
- Financial Systems
- Capacity Strengthening

Prioritize data visibility

3

- Strengthening the (LMIS) at the community level to allow visibility of disaggregated supply and demand data is vital for accurate forecasting and routine resupply.

Examples of key questions to ask about the community-level supply chain

AWARENES 💒	s and prioritization	Is the community-level supply chain a national priority? Do decision makers talk about it?
	TATION AND POLICY	What range of products and services do CHWs offer? Is a standardized list of products available?
DATA VISIBI	LITY	Are data available on stockouts at the community level? Is this information routinely available?
SUPPLY CH	AIN	When national or regional quantifications are conducted, are products needs at the community level explicitly considered?
FINANCING	G	Are products offered by CHWs subject to cost recovery? Are financial processes strong enough to support resupply?

What should you do with the advocacy document?





Use it as <u>an advocacy tool</u> to share with country stakeholders such as donors, partners, key host government officials, etc.



Engage with key partners using information from the document.



Factor questions and recommendations from the document into country work planning and activity implementation.

USAID GLOBAL HEALTH SUPPLY CHAIN PROGRAM

Procurement and Supply Management

Thank you







USAID MEDICINES, TECHNOLOGIES, AND PHARMACEUTICAL SERVICES (MTaPS) PROGRAM

Improved Access. Improved Services. Better Health Outcomes.

Financing Community Health Products

Jane Briggs, Senior Principal Technical Advisor, Lead on MNCH, MTaPS

January 23, 2024



Health products for use at community level need to be available at national level

- Community health workers (CHWs) don't work in a vacuum
- Need dependable national-level availability and an efficient supply chain to the community
- Otherwise, there is a negative impact on the ability of CHWs to provide quality services
- To ensure sufficient supply, financing needs to be assured not only for procurement of commodities at national level but also for their distribution to the last mile



To mobilize financial resources, we need to know how much is needed

- Community needs are often overlooked at the planning stages
- In forecasting and supply planning, community needs are not separated explicitly or are not accounted for
- Data on CHW consumption may be missing in the LMIS or aggregated with health center data
- Financing is not sufficient for health facility needs as well as community, and products intended for the community are diverted to health centers

Tools to help countries plan for commodity use at the community level

Community Health Planning and Costing Tool (Version 2.0)

- For planning community services and calculating the resources needed
- Covers a comprehensive package of community health care services
- Open-source spreadsheet tool to project the costs and financing



Quantification resources such as the Quantification Analytics Tool

QUANTIFICATION ANALYTICS TOOL



Forecasting supplement on reproductive, maternal, newborn, and child health medical products

- Morbidity-focused and includes community needs for each condition where applicable
- Excel spreadsheets





Community Health Planning and Costing Tool (Version 2.0) Handbook To help managers develop effective, sustainable, and comprehensive community health services April 2020

Global Fund opportunity for financing commodities (I)

- In 2014, Global Fund agreed to fund the community platform costs for iCCM but not commodities
- However, there were still stockouts at the national level due to:



Inadequate funding



Poor data

Challenges of co-financing of non-malaria iCCM components and commodities

quantifications and forecasting

Insufficient or inadequate

Global Fund opportunity for financing commodities (II)

In January 2023, Global Fund announced they could fund non-malaria commodities for iCCM with the following conditions:

- Only commodities for pneumonia (amoxicillin and timers) and diarrhea (ORS and zinc)
- Only for community level, not health facility level
- Only if there was an identified gap
- Countries need to describe:
 - How commodities would arrive at the community level
 - How antimicrobial resistance would be contained
 - A strategy for continued financing beyond the three years of the Global Fund grant

The 2023 GC7 Global Fund proposal cycle windows

Window	Applicant Submission Deadline	
I	20 March 2023	
2	30 May 2023	
3	21 August 2023	
4	5 February 2024	
5	29 April 2024	
6	9 September 2024	
7	TBC	

Challenges countries faced

- Country teams were not aware of the medicine needs of the community level
- Country teams did not know whether community level commodities were fully funded
- Advocating for part of Global Fund malaria budget was challenging as budget is limited, even for malaria needs

- GF funding request included gap tables (patients not numbers of tablets)
- Some country teams were not aware of the GF opportunity until too late
- Child health and community health teams are often not involved in the GF funding request preparation process

Support provided to countries



Quantification sheet linked to the CHW gap analysis table



Remote technical assistance





Achieving Impact at Scale: New Funding Opportunities for Integrated Community Case Management of Childhood Illnesses (iCCM) through the Global Fund: Key Advocacy Messages

BACKGROUND

Every day, thousands of children dia from pneumonia, diarritea, and mahrai - common illnesses, avoidable traggedies. Under fine mortality rates are disproported lengths in the particle are communication of the second second second communication which tend to have limited access to quality health services stress high rates of child mahrumition that increase mortality risks. This is unacceptable. We must do more, and we must do better to prevent young children from dying. Without accelerated action, 54 countries are not to track to meet the SDG target of 25 or fewer deaths per 1,000 live births. Eighty percent (80%) of these countries are in Africa.



SCAN to access the advocacy brief







Estimating commodity needs for the community level is needed for resource mobilization



Financing required—not just of commodity procurement but also supply chain



Global Fund is just one mechanism to leverage funds for commodities and CHW supply chain



USAID MEDICINES, TECHNOLOGIES, AND PHARMACEUTICAL SERVICES (MTaPS) PROGRAM

Improved Access. Improved Services. Better Health Outcomes.

Thank you

Questions?



Supply Chain for Community Health Workers

A Systems Strengthening Project Liberia







Getting Products to People: A VillageReach approach

Getting CHAs in Liberia the supplies to serve their communities



Community Health Assistants (CHAs) are the backbone of the public health system.



CHAs can dramatically expand access to health care in a costeffective manner if they are *equipped* with the supplies, they need to serve their communities.



Supply Chain Challenges:

- Lack of data for decision making
- Limited supply chain expertise
- Inconsistent delivery systems



Improving supply chains outside of health facility to the last mile ensures CHWs have medicines and lifesaving health products, and can serve the under-reached



Multi-level Intervention

- National engagement
 Advocacy for process, strategy, policy change, prioritization of CHW supplies, financing, TWG
- District/County
 Support for transportation of supplies, govt engagement
- Community level
 HCW capacity building, support
 with digital tool use/deployment

Key highlights



Integration of Community Health Supply Chain into the National Public Health Supply Chain Master Plan CHA commodity needs and forecasts included in the national commodity quantification and supply plan reviews Improved the LMIS reporting rates to 100% contributing to systematic allocation of commodities to the NCHP by counties

Digitization and pilot deployment of the community-based information system (eCBIS)

Developed and deployed a CHA supply chain kit delivery system

Deeper understanding of CHA supply chain bottlenecks

Lessons learnt in Liberia

- Standardizing supply chain practices to reduce fragmentation
- Development of change champions who serve as strong advocacy for integration and government adoption
- Adoption of technology to replace paper based processes, training and mentorship



Potential solutions for future considerations

To ensure performance of community supply chains, invest in workforce, digitization, transport infrastructure and reliable funding for commodity procurement



Zikomo! Thank you! Obrigada! Merci!

1. 1001







The Child Health Task Force is managed by JSI Research & Training Institute, Inc. through the USAID Advancing Nutrition project and funded by USAID and the Bill & Melinda Gates Foundation.

This presentation was made possible by the generous support of the American people through the United States Agency for International Development (USAID), under the terms of the Contract 7200AA18C00070 awarded to JSI Research & Training Institute, Inc. The contents are the responsibility of JSI and do not necessarily reflect the views of USAID or the U.S. Government.