

CCM Supply Chain Baseline Assessment Rwanda 2010







SC4CCM Project Goal

SC4CCM will identify, demonstrate, and institutionalize supply chain management practices that improve the availability and use of selected essential health products in community-based programs.

 In partnership with MoH, CCM and supply chain stakeholders

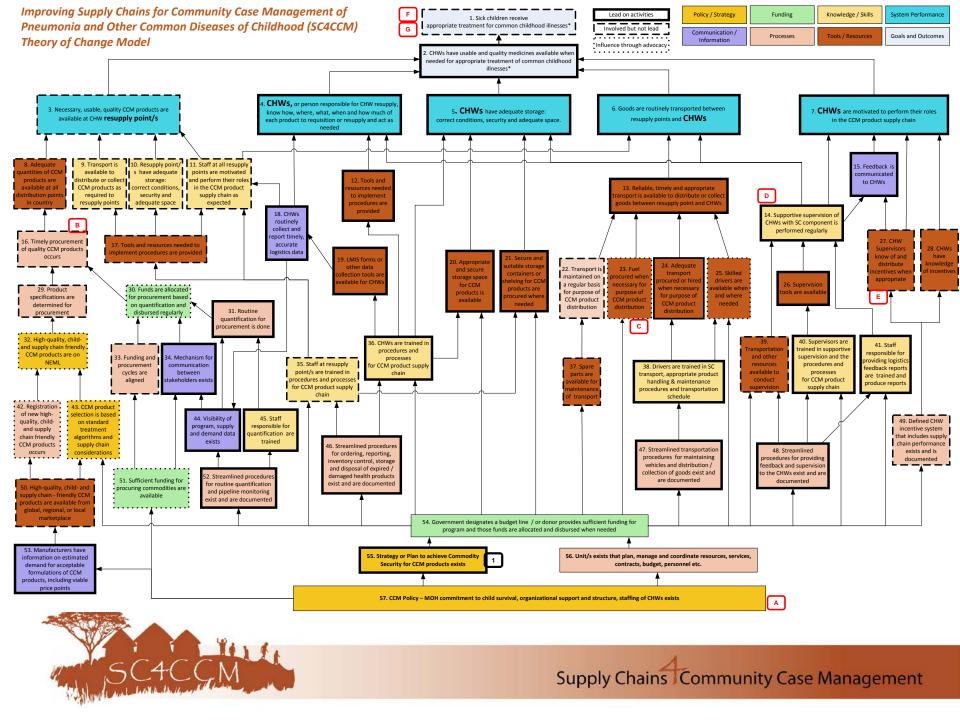




Principles – SC4CCM Theory of Change

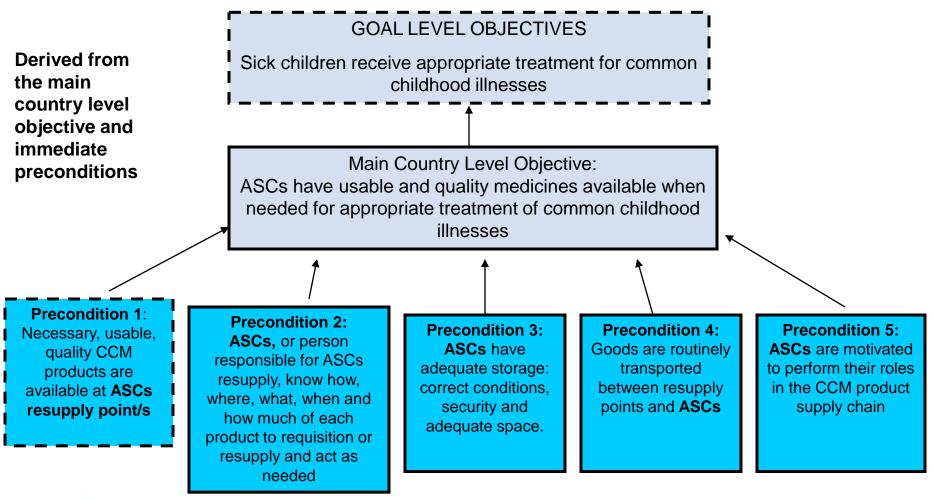
If effective and efficient supply chain systems can be created to ensure that community health workers have consistent access to sufficient quantities of high quality, affordable essential medicines, they will be able to dramatically improve care and treatment for children.





SC4CCM Core Indicators





SC4CCM



Methodology

Both qualitative and quantitative methods were applied:

- Logistics System Assessment Tool (LSAT)
 - 40 participants, 24 from MOH institutions/districts, 16 from partner organizations
- Key informant interviews
- Logistics Indicators Assessment Tool (LIAT)
 - Mobile phones
 - Build local capacity partnering with local evaluation group: National University of Rwanda, School of Public Health (SPH)





LIAT Sampling

Level of Administration / Facility	South	North	Kigali	East	West	Total
District	2	2	1	3	2	10
Health Center (CS)	20	22	8	30	20	100
ASC (Agent de Sante Communautaire)	67	72	22	103	57	321





District Sample

South	North	East	
Huye	Burera	Bugesera	
Ruhango	Musanze	Ngoma	
Kigali	West	Rwamagana	
Gasabo	Nyabihu		
	Rutsiro		

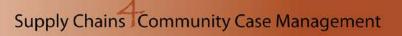




Limitations

- Duration of field work lengthened by:
 - Contact information for ASCs not complete
 - Health facility staff absences due to ongoing MOH trainings
 - Delays in administrative and financial processes
 - Dropout of data collectors after initial fieldwork period lapsed
- Due to delays, survey conducted during rainy season (North, West):
 - Difficulties reaching sites
- Replacements necessary because some selected sites not active in CCM







Baseline Results

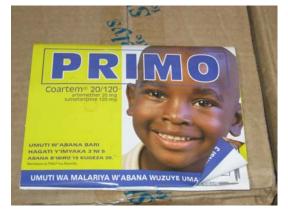


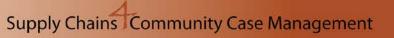


Tracer Products

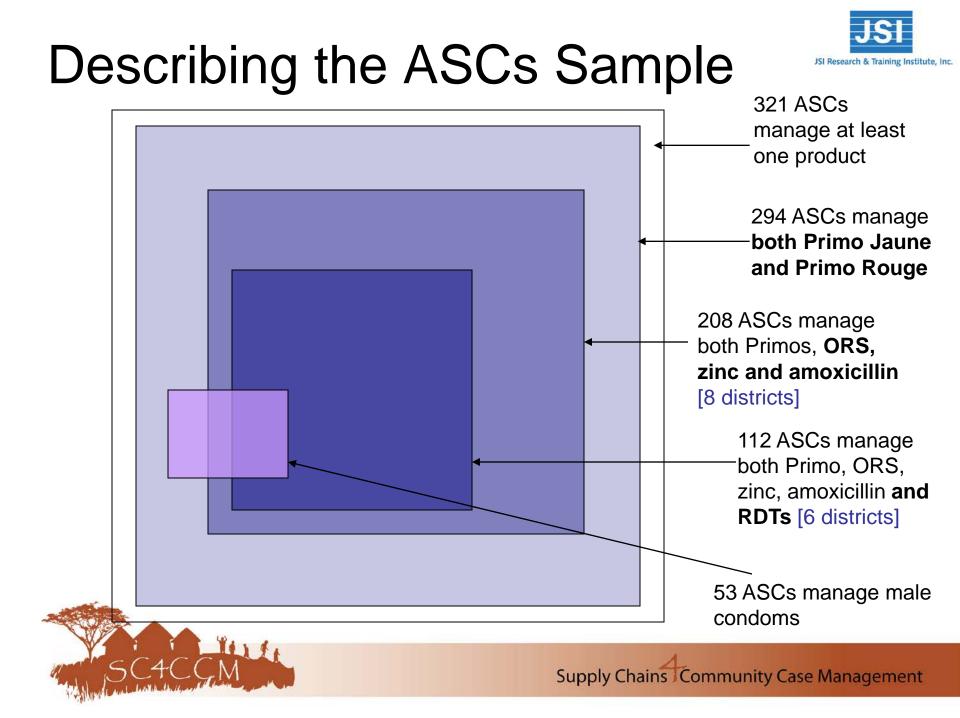
- 1. Amoxicillin 250mg capsules
- 2. Primo Rouge (ACT 1x6) tablets
- 3. Primo Jaune (ACT 2x6) tablets
- 4. Malaria Rapid Diagnostic Tests (RDTs)
- 5. Zinc 20 mg tablets
- 6. ORS sachets
- 7. Sur'Eau bottles
- 8. Male condoms
- 9. Injectable contraceptive vials













Main Country Level Objective:

ASCs have usable and quality medicines available when needed for appropriate treatment of common childhood illnesses

> Key Finding: 49% of 208 ASCs who manage the 5 health products* needed to treat common childhood illnesses (pneumonia, diarrhea, and malaria) had them all in stock on the day of visit (DOV)



*ORS, amoxicillin, zinc and both Primos



In Stock at ASCs on DOV

195 of 294 **(66%)** ASCs who manage both Primos had them in stock

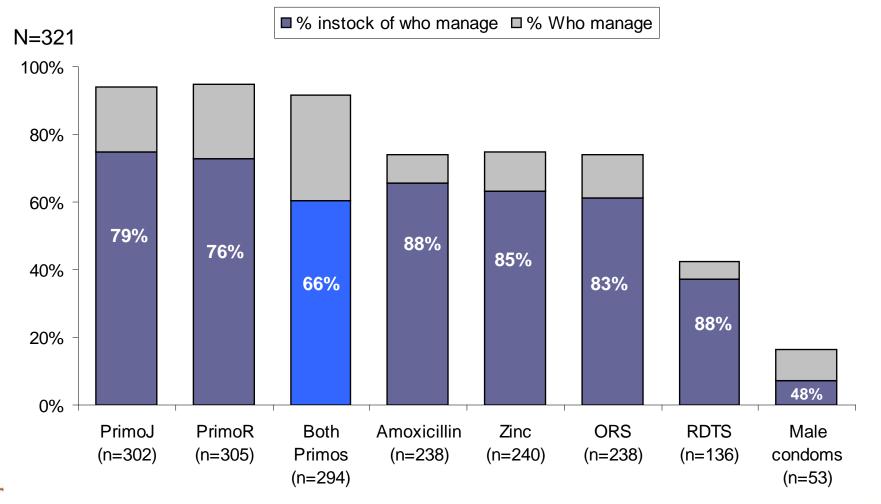
102 of 208 **(49%)** ASCs who manage both Primos, **ORS, amoxicillin and zinc** have all in stock

> 64 of 112 **(57%)** ASCs managing both Primos, ORS, amoxicillin, zinc **and RDTs** have them all in stock

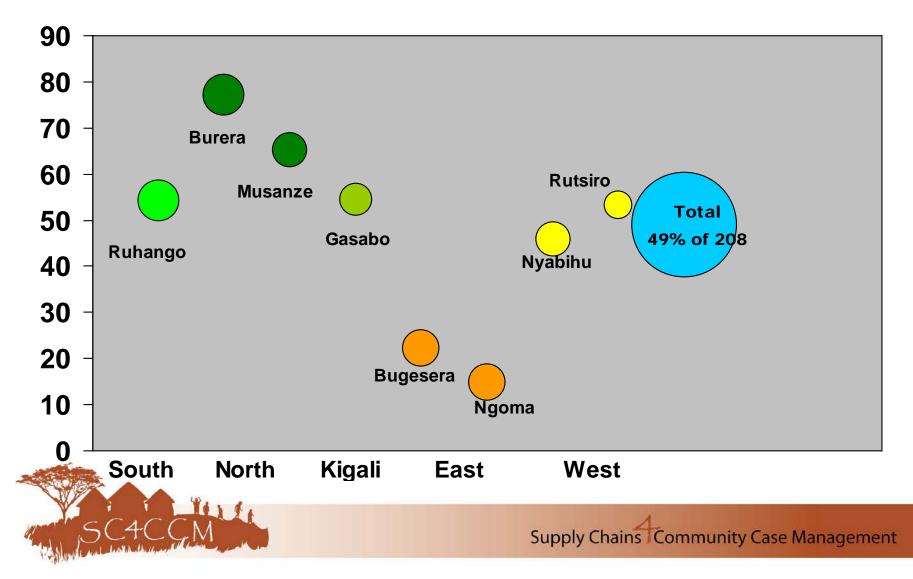




In Stock on DOV at ASCs by Product



% ASCs with Five Key Drugs In Stock (Amoxicillin, ORS, Zinc & PrimoR/PrimoJ)





Average Stockout Duration and Stock Status for ASCs March-August 2010

Type of Product	Average duration stockouts (months)	Average months of information on stock card	Average months of stock*	
Zinc	1.6 (n=37)	2.7 (n=200)	10.9	
Amoxicillin	1.7 (n=28)	2.6 (n=197)	3.9	
ORS	1.5 (n=41)	2.6 (n=186)	5.8	
Primo Rouge	1.6 (n=72)	2.9 (n=185)	2.3	
Primo Jaune	2.0 (n=62)	2.6 (n=181)	2.1	



*Stockouts not included



ute. Inc.

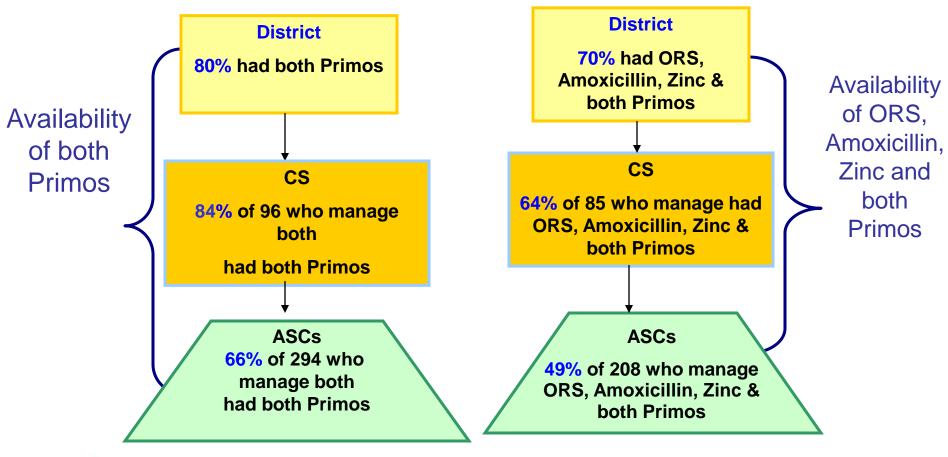
PRECONDITION 1:

Necessary, usable, quality CCM products are available at ASCs resupply point/s

- Product availability at the resupply point appears to be strongly linked to product availability at the ASCs Level for:
 - Zinc
 - Amoxicillin
 - ASCs considerably overstocked in amoxicillin, zinc and ORS

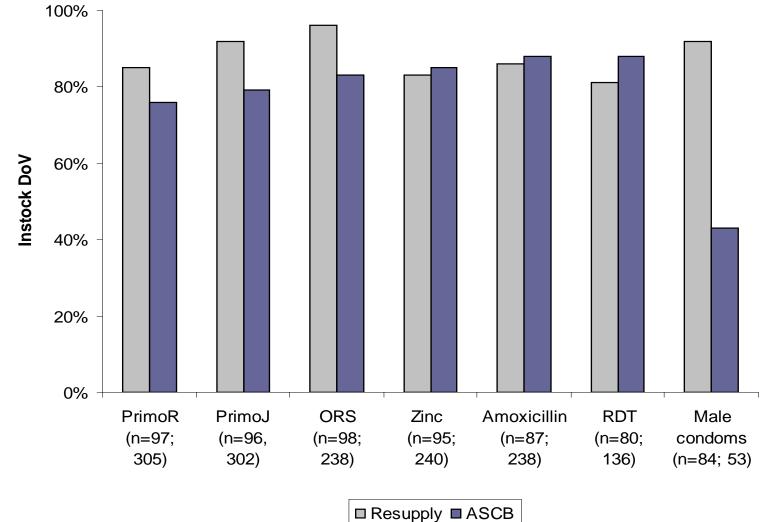


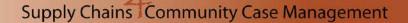
Product Availability at All Levels on USI DOV





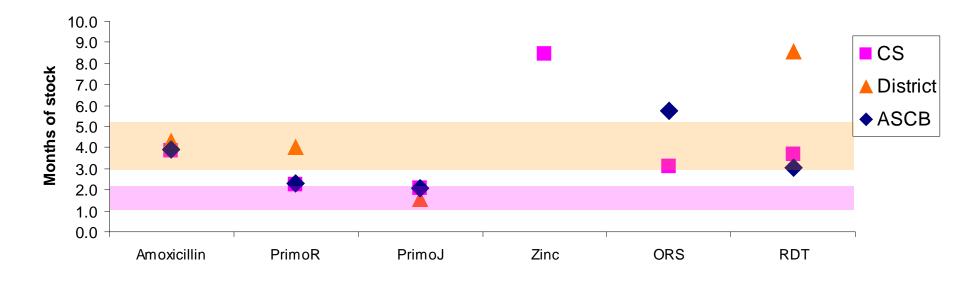
% of Resupply Points and ASCs in Stock on DOV





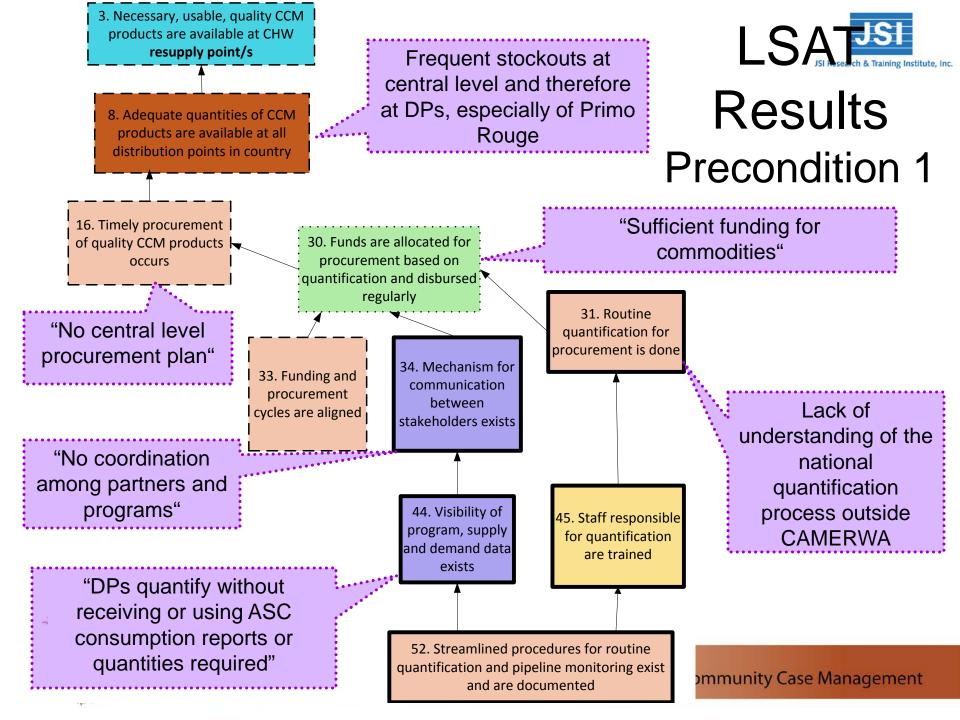


Stock Status (up to 6 mos.) at all levels, based on Min/Max concept



Colored bars represent ideal Min Max ranges for CS and District





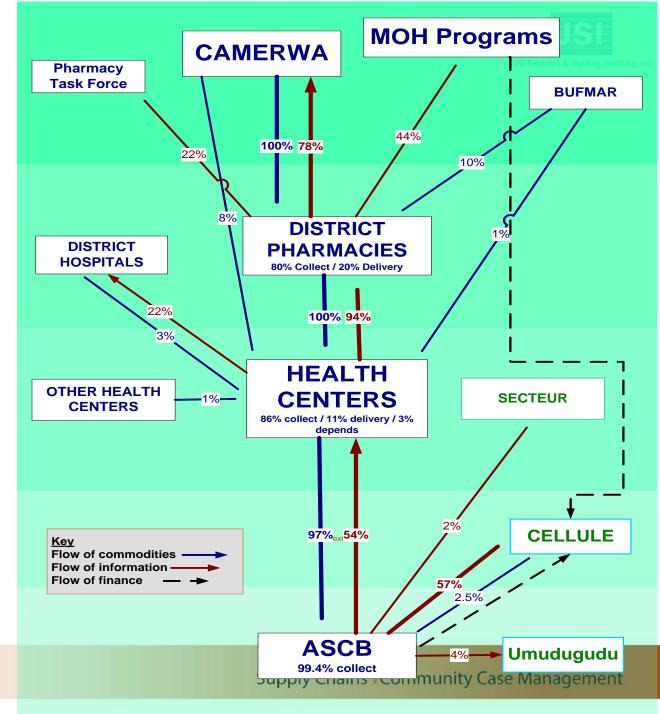
PRECONDITION 2:

ASCs, or person responsible for ASCs resupply, know how, where, what, when and how much of each product to requisition or resupply and act as needed

- High levels of supply chain training reported by staff at CS and ASCs
- Supply chain data not visible at all levels of the system
- No standard operating procedures (SOPs) or standard formula of resupply quantities for ASCs



Flow of Products and Information







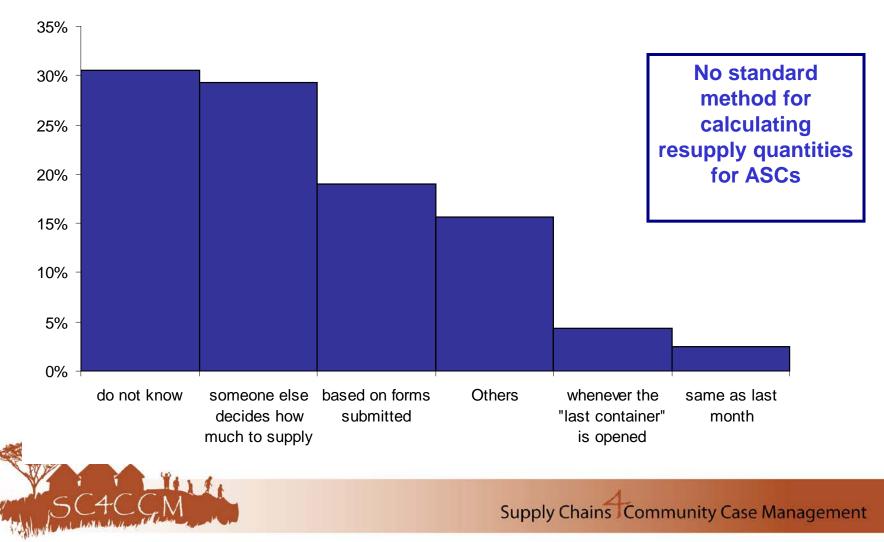
ASCs Reported Training in Supply Chain Management

	ASCs formally trained in SC areas (N=304)
% ASCs who reported training in all three: record keeping , ordering , receiving (combined as a %)	49%
% ASCs who reported training in both: storage and FEFO (combined as a %)	93%
% ASCs who reported training in transportation	79%

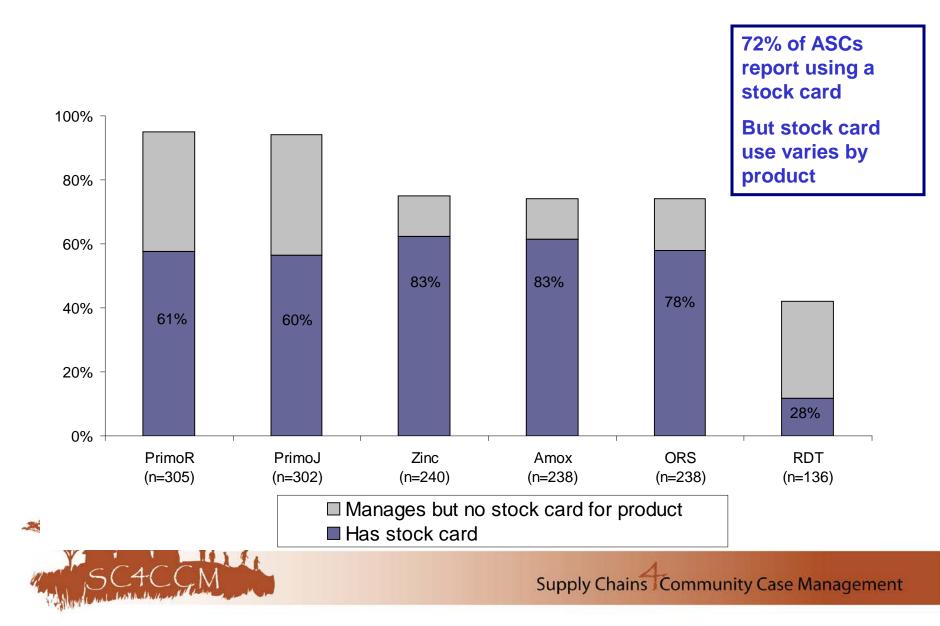




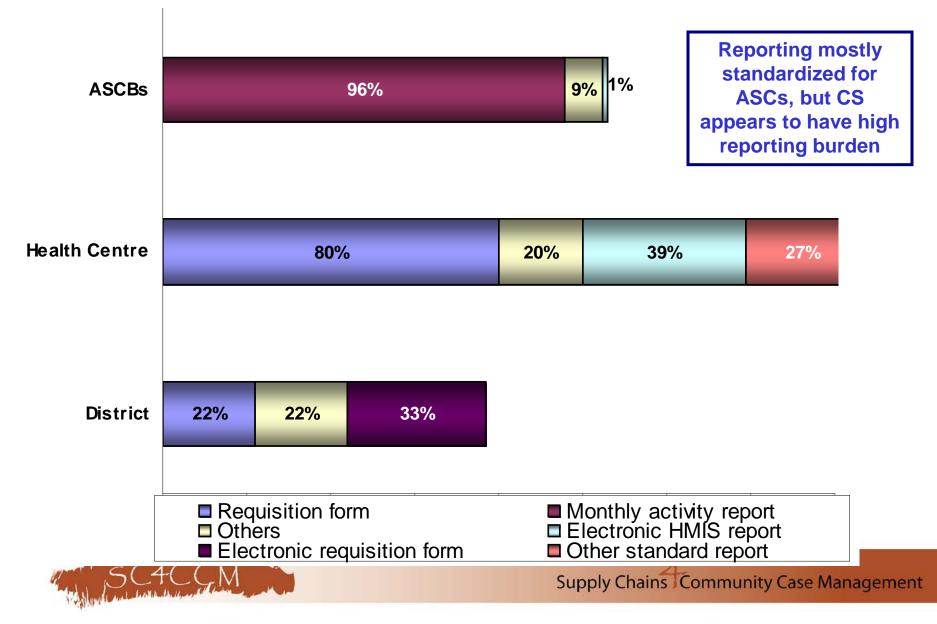
Methods used by ASCs to Determine Resupply Quantity



Availability of Stock Card at ASC Level and International Content of Stock Card at AS

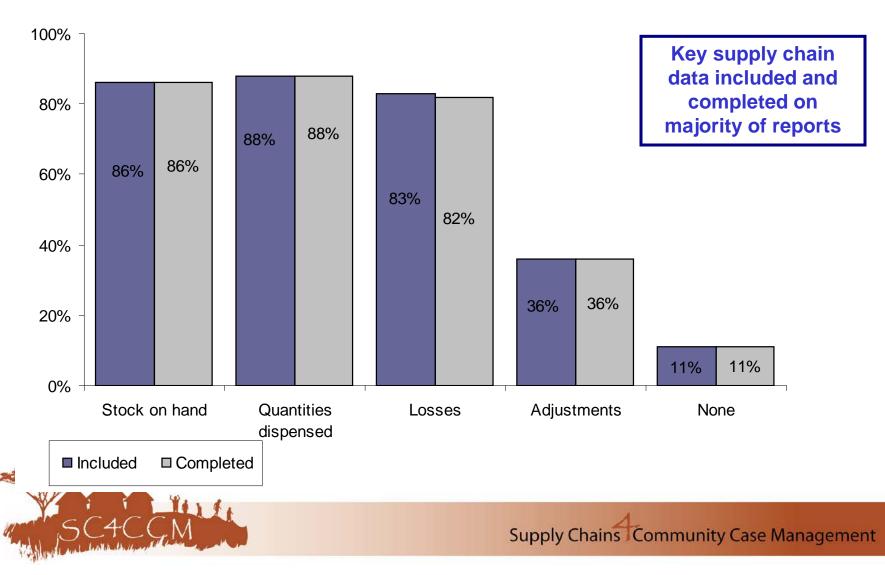


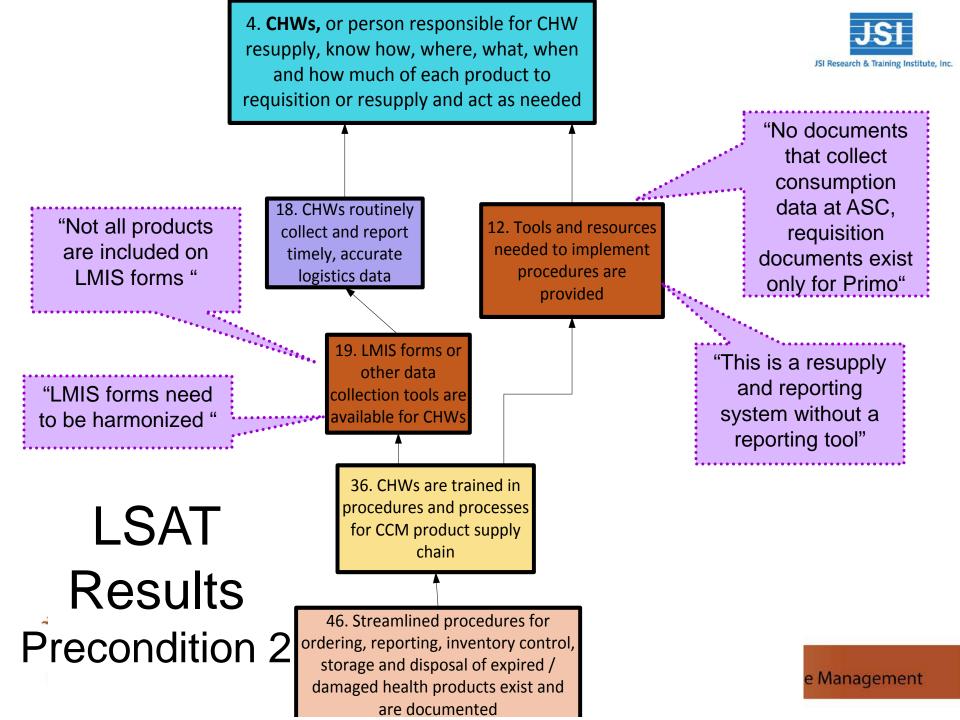
Types of Reports Submitted



Completion of ASC Monthly Report

% of Information Included and Completed on ASCs Reporting Forms Viewed at the ASC Level (n=248)





PRECONDITION 3:

ASCs have adequate storage: correct conditions, security and adequate space.

Standards for appropriate storage conditions appear generally well maintained at all levels, with some outstanding gaps, and some conflicting evidence from qualitative results



ute. Inc.

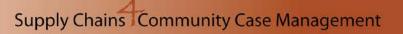


Satisfactory Storage Conditions

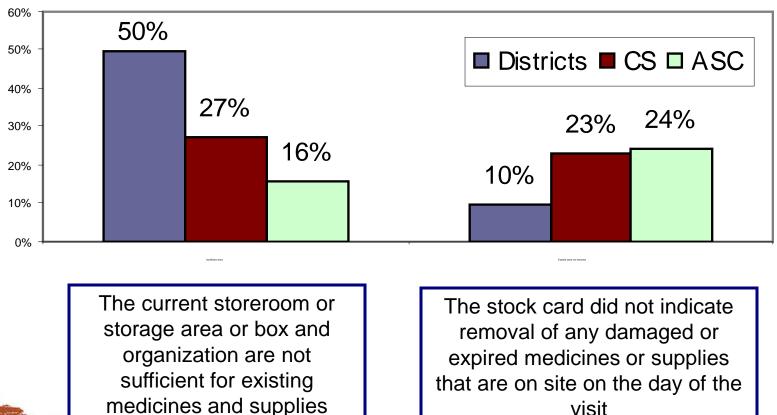
Health products are stored:

- 1. in an area free of rodents or insects
- 2. securely with a lock and key, and with limited access
- 3. in an area that is protected from direct sunlight
- 4. at the appropriate temperature
- 5. in a clean, dry, well-lit and well-ventilated storeroom
- 6. in an area that is accessible during all normal working hours.
- 7. so that first-to-expire, first-out (FEFO) is observed
- 8. on shelves or stacked off the floor in stacks and away from walls
- 9. separately to damaged and/or expired health products
- 10. well organized in the drug box (ASCs only)





Storage gaps: Two conditions require improvement at all levels



visit



Storage gaps: Conditions requiring

	District		CS	
Do not store products on shelves or stacked off the floor	t store products on shelves or stacked off the floor 30% 13)	
Do not store products organized by FEFO 20% 16		16%	6%	
Do no store products away from direct sun	10%			
Do not store them separately from chemicals and insecticides	10%			
			ASC	
Do not secure the storage box with a lock and key, nor is access limited to authorized personnel			37%	
Do not store products in a clean, dry, well-lit and well-ventilated storage area			5%	
Storage area or box is NOT free of rodents or insects			5%	



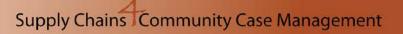


5. CHWS have adequate storage: correct conditions, security and adequate space. **LSAT Results Precondition 3** "Secure boxes are "Storage capacity old, in poor not adequate condition and can't ...products stored be replaced due to near goats, lack of funds" cookers, bedrooms" 21. Secure and 20. Appropriate suitable storage and secure containers or storage space shelving for CCM for CCM products are products is procured where available needed

PRECONDITION 4: Goods are routinely transported between resupply points and **ASCs**

- ASCs are generally located in remote areas that are difficult to reach particularly during rainy season
- 26% of 90 ASCs with problems related to collecting or receiving health products reported lack of transport as the major constraint

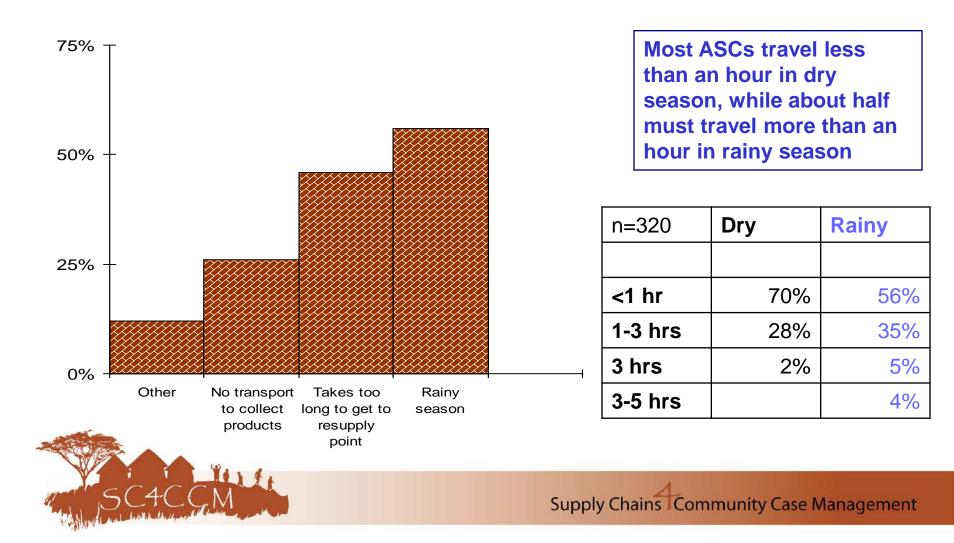




titute. Inc.

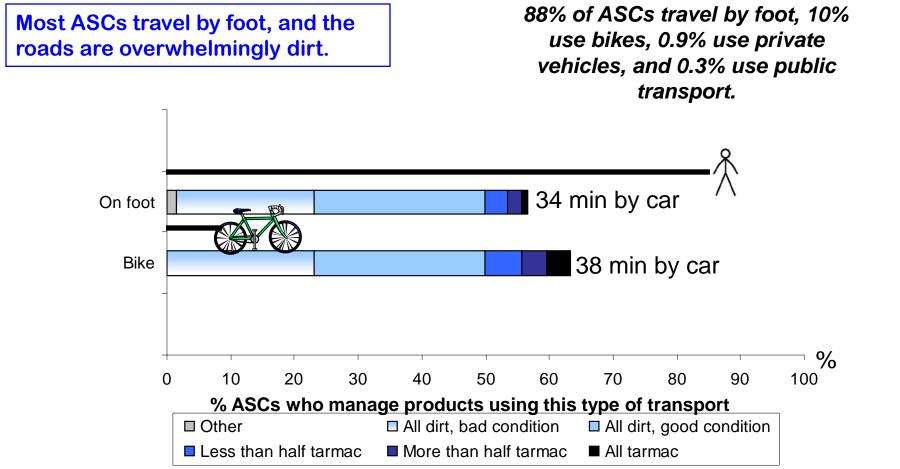


Problems Collecting/Receiving Products Reported by 90 out of 321 ASCs





Transport and Distance



*Length of bar indicates the distance an ASCs would have to travel to get to health center by car (in minutes). *Segments of bar indicate the proportion of ASCs using this type of transport who travel on various types of roads. *Line length indicates the percent of ASCs that use this type of transport.

LSAT Results Precondition 4

 Goods are routinely transported between resupply points and CHWs



13. Reliable, timely and appropriate transport is available to distribute or collect goods between resupply point and CHWs

"Distribution schedules exist for all levels but orders not delivered/collected on schedule."

"Transportation not used efficiently since there are too many uses for one vehicle." 24. Adequate transport procured or hired when necessary for purpose of CCM product distribution "Transportation is insufficient at all levels."

47. Streamlined transportation procedures for maintaining vehicles and distribution /collection of goods exist and are documented

nity Case Management

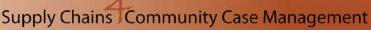


ute, Inc.

PRECONDITION 5:

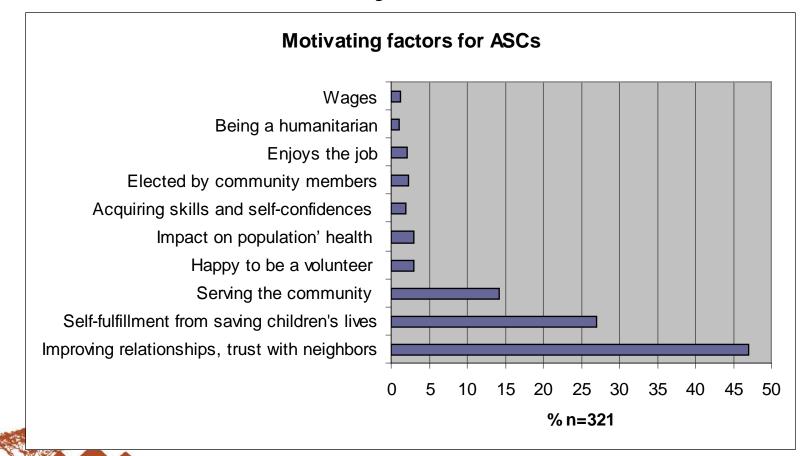
ASCs are motivated to perform their roles in the CCM product supply chain

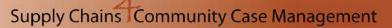
- Biggest motivators for ASCs
 - Social relationships, trust and esteem from neighbours (47%)
 - Being able to save children's lives/help community (27%)
- 90% ASCs reported being supervised at least once a quarter (54% monthly, 36% quarterly)





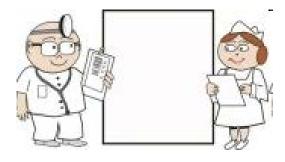
What motivates ASCs to do their job?







Supervision



87% supervisors reported providing supervision to ASCs every 3 months

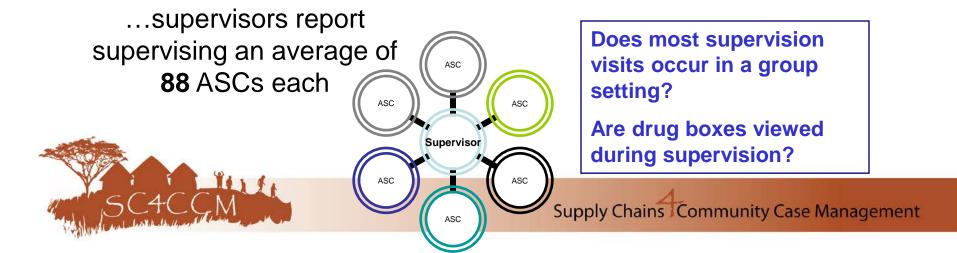
• 96% supervisors reported providing feedback

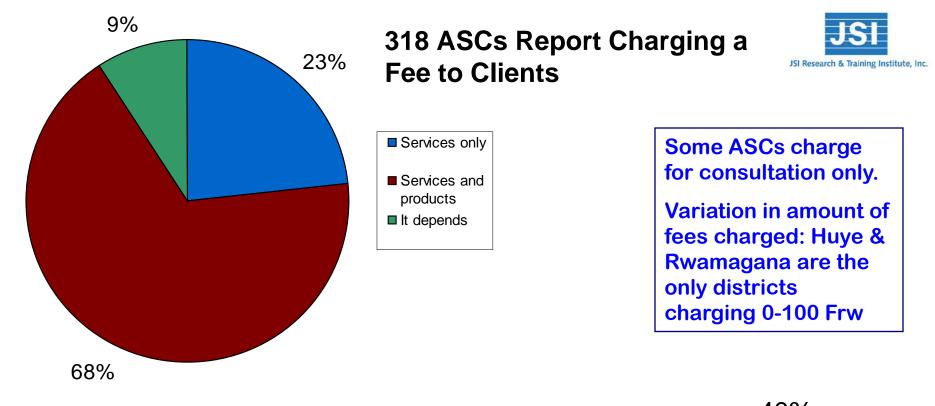
Last 3 months

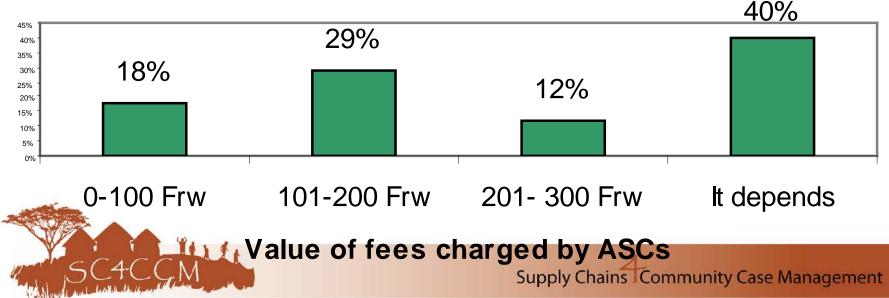


93% ASCs reported receiving a supervisory visit in last 3 months

•82% ASCs reported receiving feedback specifically on managing products









Access to Communication Technology



98% of ASCs who manage health products have a mobile phone



62% have networkcoverage at work allthe time,85% have at leastsometimes

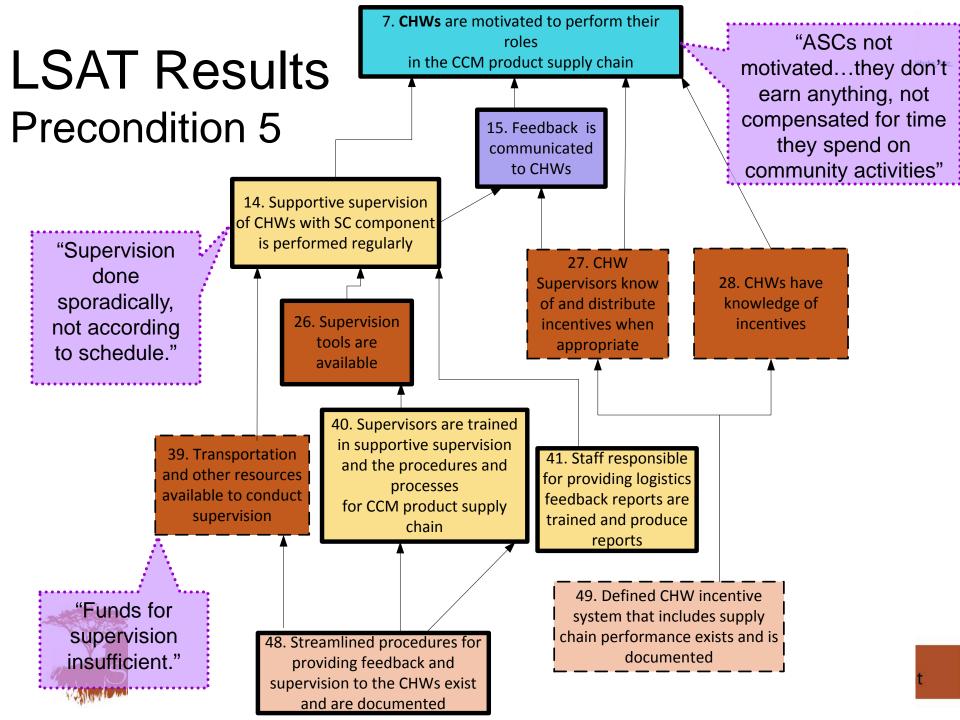
39% have source of recharge for phone battery

9% have at least sometimes





Supply Chains Community Case Management

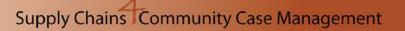




General results: CCM Supply Chain & Customer Service

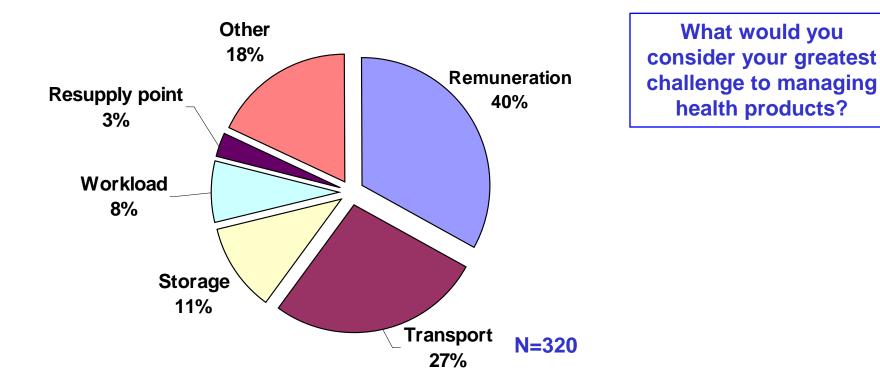
- Barriers to client accessing ASC services:
 - Between Aug-Nov 2010, 38 ASCs reported referring patients because of a stockout
 - Frequent stockouts affect client confidence in system → are not consistently served (*LSAT)
 - Clients pay Fr200 for ASC service, if referred have to pay another Fr200 (*LSAT)







General results: ASCs' Greatest Challenge in Managing Health Products





Supply Chains Community Case Management

Thank You





