Cold chain planning: Beyond Cold Chain Inventories
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THREE REASONS TO FOCUS ON COLD CHAIN PLANNING

Good planning safeguards potency and saves costs

I: The VALUE and VOLUME of vaccines in the cold chain is RISING FAST

Annual value and volume of vaccines used in routine childhood immunization in Ethiopia

The INVESTMENT in COLD CHAIN is SMALL, relative to value of vaccines

Investing in the cold chain can safeguard 7-9x value of vaccines

$10 Mil/yr
$60 Mil/yr
$80 Mil/yr

Cold chain investment needed/year Vaccine value introduced/year

$10 Mil/yr
$60 Mil/yr
$80 Mil/yr

Vaccine value introduced/year (2018)

The 5-STEP COLD CHAIN PLANNING PROCESS

Cold chain planning is more than just inventories

Conduct Cold Chain Inventory
Calculate Capacity Gaps
Develop Plan to Fill Gaps
Select & Cost Equipment Options
Execute Plan & Monitor Progress

• Has the right data been collected, e.g., type of equipment, location, serial number, functional status, quality factors incl age, temperature control, condition, etc?

• What gaps exist to meet current and future needs, incl new vaccine introduction, campaigns, buffer, wastage, etc?

• What scenarios should be considered, e.g., Repair, Replace, etc?

• Has the right mix of optimal equipment been selected for the site?

• Has equipment been procured, installed in the right places, and entered into the system?

• What is the estimated cost to procure – and install – equipment?

• Has the right data been collected, e.g., type of equipment, location, serial number, functional status, quality factors incl age, temperature control, condition, etc?

• What assumptions does MoH support, e.g., electrification, replacement age, gas-based, level of freeze-protection, etc?

• What scenarios should be considered, e.g., Repair, Replace, etc?

• Better equipment selection with optimal technology

• Decision to stop buying non-PQS cold chain equipment

OVERLOOKED FACTORS FOR SUCCESS

Lessons learned across 7 CHAI countries

Focus on both REPLACEMENT of equipment and EXPANSION of equipment capacity

Choose cold chain equipment not only based on PRICE, but also PERFORMANCE (e.g., non-freeze)

Ensure BUY-IN from MoH and key STAKEHOLDERS

Define how the plan will be FUNDED, equipment ALLOCATED, and execution MONITORED

THREE POTENTIAL OUTCOMES OF CAREFUL PLANNING

Proper planning can yield dramatic results

Increased budgets for cold chain equipment

Better equipment selection with optimal technology

Decision to stop buying non-PQS cold chain equipment

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