Challenges, Successes, Lessons Learned

“Immunization Supply Chain System Design in Pakistan”

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Country Profile
Population: 214.5 M
Target Population: 6.9 M
4 Provinces & 5 Areas
Districts: 168
Health Facilities: 7393

Karachi: 1502 km  2 Hours Flight
Quetta: 917 Km  2 Hours Flight
Gilgit: 470 Km  14 Hours by road
Lahore: 382 Km  4 Hours by road
Peshawar & FATA: 187 Km  2 hours by road

Point of Entry
Vaccine – Islamabad
Logistics - Karachi
Country EVM Assessment 2014
Strategic Goals for Improvement

(1) Data for Management / vLMIS

Strategic Goal 1: Scaling up LMIS to ensure reliable and timely data to effectively manage the immunization supply chain.

(2) Human Resources for Logistics

Strategic Goal 2: Compliance with effective vaccine management (EVM) policies and practice by strengthening the human resources for logistics at all levels.

Strategic Goal 3: Ensure sufficient storage infrastructure for today and tomorrow’s vaccines by equipping storage points with the right Cold Chain equipment suitable for the environmental condition with continuous temperature monitoring and sustainable maintenance system.

(3) CCE, Temp Monitoring, Maintenance

Strategic Goal 4: Implement a need-based distribution system with reliable transport system organized around efficient network redesign and route planning.

(4) Distribution, Transport, and Network Design

Vision 2020

>80%
Many Partners joined Hands to strengthen Federal and Provincial EPI

- Established National CCE inventory 2014
- Introduced vLMIS in 2015 (Scale up of vLMIS 2017)
- Implementation of EVM-IP 2016
- System Design Workshops - 2016 and 2017
  - Introduction of System Design concept, common strategies, where it has been applied, and the benefits it provides.
  - Priorities, Modalities and template for data collection was agreed at each level for supply chain
- Approval of CCE-OP Application by Gavi 2017
- Installation of CTM System in Federal and Provincial warehouses
- Temperature Monitoring Study – 2017
HOW WE WERE YESTERDAY
WAREHOUSE BUILDING TODAY
VLMIS CONTROL ROOM
System Redesign Expectations

- Effective & efficient iSCM system
  - Ensured vaccine availability
  - Less vaccine wastage
  - Timely provision to end user

- Cost effectiveness
  - Multiple direct delivery points for vaccines and Logistics

- Risk Mitigation
  - Distributed storage may/may not reduce risk of vaccine wastage
    - Reduce long travel (reduce handling and long hours transportation)

- Reduce risk related to transportation and handling

- Improve vaccine visibility through vLMIS
  - Reduce Stock outs at all levels
  - Reporting
System Design Approach

1 Primary Store
4 Provincial Store & 5 Area Store
168 District Stores
432 Sub-District
7393 Facilities
Outreach
The Way Forward

- Continue to improve the efficiency, coverage and equity of vaccine distribution system
- Consider possibilities of engaging private sector
- Continue to improve data quality and use (for example eVaccs)
- Improve HR capacity for logistics