HEALTH SUPPLY CHAIN REGULATION

PILOT: TRACEABILITY OF COVID-19 VACCINES IN NIGERIA

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National Agency for Food and Drug Administration and Control (NAFDAC): Health Supply Chain Regulation

NAFDAC mandate: Regulate and control the manufacture, importation, exportation, distribution, advertisement, sale and use food, drugs, cosmetics, chemicals, detergents, medical devices and packaged water.

NAFDAC aims to have full visibility over all products moving within the pharmaceutical supply chain in Nigeria.

- The Nigeria National Pharmaceutical Traceability Strategy guided the development of a 5-year implementation plan.
NAFDAC Pilot COVID-19 Vaccines Traceability: Activities

• A Pilot in the Five-Year National Strategic Plan

• Collaboration with healthcare supply chain actors for Covid-19 Vaccine using GS1 standards.
  - AstraZeneca brand of Covid-19 (CovishieldTM) Vaccine manufactured by The Serum Institute of India.
  - Moderna Vaccine, Manufactured in the USA

• Assignment of Global Location Numbers (GS1 Standards)
  - For over 400 facilities in 36 States and the FCT.
  - Facilities included National, Zonal, State and Local Government warehouses as well as Healthcare.

COVID-19 Vaccines Traceability Pilot: Barcode Scanning (AstraZeneca SI India)

- Scanning upon entry at the airport and across 34 States and the FCT – State Cold Stores.
- Scanning was also done at selected LGA Cold Stores and Healthcare Facilities in each State.
In-Country Serialization of COVID-19 vaccines

Phase 1 Activity

• Product
  • Moderna COVID-19 Vaccine
• Country of Origin
  • USA
• Number of Batches
  • 7 batches
• Quantity
  • 4,000,080 doses (28,608 secondary packs)

Issues
• No serialized GS1 standard barcode on secondary pack
• No human readable Expiry Date on secondary pack
• Expiry Date encoded in the barcode on the vaccine secondary pack did not comply to GS1 standard.
In-Country Serialization of COVID-19 vaccines

PROCEDURE
COVID-19 Vaccines Supply Chain Traceability: Lessons

**Strengths**
- Ongoing regulatory strengthening – ISO 9001, WHO GBT, WHO PreQ etc.
- Capacity to monitor vaccine distribution and conduct in-country serialization
- History as lead implementer of cutting edge technology
- Competent workforce

**Gaps**
- Unavailability of Event data (Aggregation and Commissioning)
- Insufficient funding and equipment
- Incidents of failed scans
- Primary package traceability

**Opportunities**
- Huge supply chain traceability infrastructure deficit
- Existing chaotic drug distribution chain
- Sustained stakeholders cooperation
- Limited funding to drive traceability implementation

**Threats**
- Technical guidelines and regulations are being developed
- Visibility of the Supply Chain
- Awareness creation among stakeholders
- Interoperability/Integration with existing systems – PIDCARMS, etc.
- Multi-stakeholder collaboration
On-going Activities in 5-year implementation

- Work with stakeholders on pilot to test prototype traceability implementation
  - Private sector pilots underway
  - Adopt Global Trust Repository for visibility of all health commodities in the supply chain
  - Use pilot results for future pilots and as input for regulation
    - In-country serialization of Moderna COVID-19 vaccines
    - Scaling the scanning of COVID-19 vaccines to all LGAs in Nigeria
- Develop regulations to support traceability implementation
  - Zero draft being reviewed internally
- Develop and sustain supply chain traceability system
Thank you