



MVC
The Medical Value Chain

الجمهورية اللبنانية
وزارة الصحة العامة



توقيع اتفاقية تفاهم مع شركة MVC لاعتماد البطاقة الدوائية وتطوير نظام تتبّع الدواء **MEDITRACK**

وزارة الصحة العامة

2 أيلول 2021



REPUBLIC OF LEBANON
MINISTRY OF PUBLIC HEALTH



Implementing a Track & Trace System for Pharmaceuticals in Lebanon

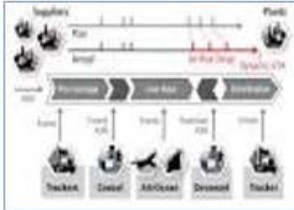
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MOPH – September 2021

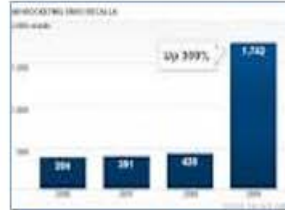
Main objectives



**Supply Chain
Visibility**



**Product
Protection**



**Recall
Improvement**



**Returns,
Shipment accuracy
and efficiency**



Reimbursement

- ✓ Ensure Patient Safety
- ✓ Traceability across the supply chain
- ✓ Visibility and Protection from the point of manufacture to sale to the consumer
- ✓ Reducing counterfeited and illegal drugs
- ✓ Fast recalls from the market
- ✓ Fast Reimbursement and fraud control at the third party payers

Functionalities of the 2D barcode System

- ✓ Product unique identification using GSI- 2D Data Matrix Barcode
- ✓ Product verification to ensure quality and reduce errors
- ✓ Data capture at each point in the pharmaceutical supply chain and update MoPH Database.
- ✓ Track forward the movement of a product through specified stage(s) of the supply chain and trace backward its history
- ✓ Visibility and real time information available on dashboards



Identify



Verify



Track



Trace



Report

Stakeholders

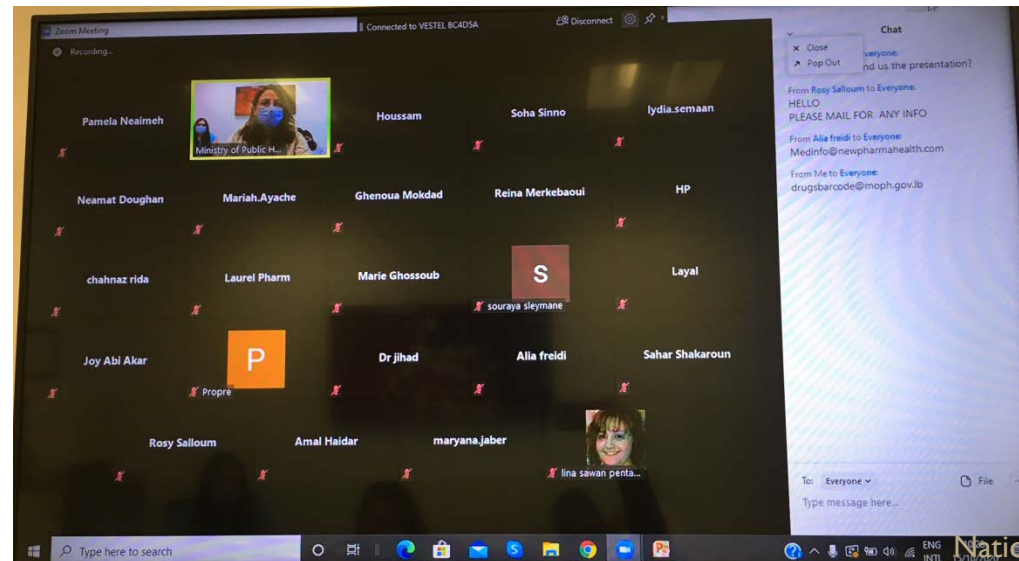
1. World Health Organization
2. Pharmaceutical Manufacturers
3. Pharmaceutical Importers
4. Drugs Warehouses/ wholesalers
5. Pharmacies (community and hospitals)
6. GSI-Lebanon
7. Third Party Payers (NSSF, Cooperative of Public Officers, Private Insurance Companies, others...)

Work Progress on MediTrack

- Phase I 2016-2020
 - Compliance with GSI Standards
 - Implementation at MoPH pharmacy departments
- Phase II 2020-2021
 - Implementation at Drugs Importers and Warehouses (Registered medications and vaccines)
 - Technical Guidelines published
- Phase III 2021-2022
 - Implementation at Community and hospitals pharmacies
 - Integration with LMS (Logistic Management System) at Karantina warehouse to include donations tracking
 - Implementation at Primary Healthcare Centers
- Phase IV 2022-2023
 - Implementation at Local Manufacturers

Importers and Wholesalers Training

- Around 130 Importers and 30 Wholesalers
- 4 Online meetings on Zoom with general managers and CEOs
- 5 Online training sessions on Zoom for technical people on how to use MediTrack
- Each training session was recorded and shared with all participants
- Technical support is provided daily for all users by answering phone calls or replying to emails



Phase III- Implementation at Pharmacies

- Integration between **Meditrack** and **SoftPharm** (pharmacy software) was completed successfully after 8 months of hard work.
- Pilot with 3 pharmacies during last 5 months
- Development of technical guidelines for software companies for the **Integration with MediTrack**
- Development of a test platform for software companies to check the compliance of their system with **MediTrack**
- 2D barcode readers will be provided for free for pharmacies by WHO
- Regulations will be issued soon to start the implementation in all pharmacies

Integration with VMC system

This project comes as a continuation of the efforts made by the Ministry of Health for years, especially the work done by the Pharmacy and the Electronic Health Departments, which led to the adoption of two-dimensional barcodes on all medicines.

With the integration with VMC System, MoPH will benefit from the potential of block chain technology in supply chain traceability:

- Strengthen trust between supply chain actors
- Enable real-time data sharing through a decentralised structure
- Improve security and privacy with encryption
- Increase efficiency and reduce costs
- Increase transparency
- Innovation to solve problems and Improve longstanding cumbersome practices.
- Ensure patients inclusion

New Functionalities

- Link with manufacturers in the country of origin to reduce medicines invoice
 - Link with customs administration for better visibility and control
 - Create a Health ID for patients to benefit from subsidized medicines (بطاقة دوائية)
 - Automate the unified medical prescription and link with physicians
- Pharmacies in Lebanon will be able to know and use these prescriptions to ensure that no one in the logistics chain is storing subsidized medicines, or transporting them to foreign markets.



Thank You

For more info:

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<https://www.moph.gov.lb/en/drugsbarcode>