



الجمهورية اللبنانية
وزارة الصحة العامة



تتبع أدوية الأمراض السرطانية عبر نظام **MEDITRACK**

دورة تدريبية للمستشفيات الحكومية والخاصة

مستشفى رفيق الحريري الجامعي

26 تشرين الثاني 2021



REPUBLIC OF LEBANON
MINISTRY OF PUBLIC HEALTH



Tracking Cancer Drugs Through **MEDI TRACK**

Training session for Private and Public Hospitals

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Rafic Hariri University Hospital
26 November 2021*

Background

- The limited budget allocated from the Lebanese central bank for the total subsidization of the catastrophic illness medications has led to the urgency need to track the dispensing of cancer medications up to the level of the patient at both public and private sector.
- The MOPH – Meditrack system has been implemented since 2020 tracing the imported medications up to the supplier purchase and distribution level.
- This project will complete the Meditrack objective to trace medications up to the patient level.
- The first phase will include the fully subsidized cancer medications.

Main Objectives

- Track and trace subsidized cancer medications in the supply chain, from the point of import to the final beneficiary (patient)
- E-dispensing of cancer medications on MediTrack either from MoPH dispensing centers or from hospitals with chemotherapy units or from private pharmacies.
- MoPH to control subsidized cancer medicines selling and this will prevent storing medicines or transporting them to foreign markets.

First Phase

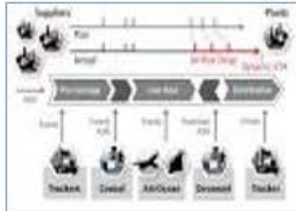
The MoPH with the syndicate of hospitals and the order of pharmacists has identified:

- 33 Hospitals with chemotherapy units for dispensing IV and oral cancer medications.
- 80 private pharmacies for dispensing oral cancer medications.

Hospitals List

Hospital's Name	Public/Private	Caza	Address
AUBMC	Private	Beirut	Hamra
Bekaa	Private	Bekaa	Taalabaya
BMC	Private	Metn	Mansourieh
Chtoura	Private	Bekaa	Chtoura
Clemeceau Medical center	Private	Beirut	Hamra
Dallaa	Private	Saida	Saida
Dar Amal University hospital	Private	Baalback	Baalback
Hammoud University hospital	Private	Saida	Saida
Haroun	Private	Metn	Zalka
Hotel Dieu	Private	Beirut	Achrafieh
Jabal Amel	Private	Tyr	Abbassieh
Kesrwan Medical center	Private	Keserwan	Ghazir
Khoury General	Private	Bekaa	Zahle
Labib Medical Center	Private	Saida	Saida
Libanais	Private	Beirut	Geitawi
Libano Francais	Private	Bekaa	Zahle
Makassed	Private	Beirut	Tarek Jdideh
Middle east	Private	Metn	Bsalim
Mount Lebanon	Private	Baabda	Hazmieh
Nabatieh Governmental	Public	Nabatieh	Nabatieh
ND Maritime	Private	Jbeil	Jbeil
ND Secours	Private	Jbeil	Jbeil
Rachayya Governmental	Public	Bekaa	Rachaya al akaba
Rassoul Aazzam	Private	Beirut	Beirut
RHUH	Public	Beirut	Bir Hassan
Rizk LAUMCH	Private	Beirut	Achrafieh
Saint Georges Ajaltoun	Private	Keserwan	Ajaltoun
Saint Georges Orthodoxe	Private	Beirut	Achrafieh
Saint Jospheh	Private	Metn	Dora
Tebnin Governmental	Public	Bint Jbeil	Tebnin
Tel Chiha	Private	Bekaa	Zahle
Tripoli Governmental	Public	Tripoli	Qibbe

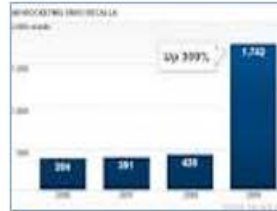
MediTrack main objectives



**Supply Chain
Visibility**



**Product
Protection**



**Recall
Improvement**



**Returns,
Shipment accuracy
and efficiency**



Reimbursement

- ✓ Ensure Patient Safety
- ✓ Traceability across the supply chain, the drug flow between production and sales channels can be monitored from beginning to end.
- ✓ Visibility and Protection from the point of manufacture to sale to the consumer.
- ✓ Production process compliant with regulations
- ✓ Reducing counterfeited and illegal drugs
- ✓ Fast recalls from the market
- ✓ Fast Reimbursement and fraud control at the third party payers

Functionalities of MediTrack 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- MediTrack 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

2D Data Matrix Barcode

A GS1 DataMatrix Bar Code symbol is a two-dimensional (2D) matrix barcode, consisting of black and white “cells” or modules, that can be arranged in a square or rectangular matrix.

- ✓ GS1 DataMatrix is the preferred 2D matrix bar code symbology that efficiently meets all of the needs of the pharmaceutical industry

Exemple:



GTIN: (01) 06251234560011
Expiry: (17)010115
Batch/Lot: (10) ABC234

- ✓ 2-D Data Matrix can hold more data and is smaller in size than linear barcodes
- ✓ It is a highly secured type used by Manufacturers to protect their brands internationally

Barcode Structure

3 of the Application Identifiers (AI) has been chosen:

AI Description	GS1 Index	AI (# Digits)	# Digits	Total # Digits
GTIN	1	2	14	16
Batch or Lot #	10	2	20	22
Expiry Date	17	2	6	8
Serial Nb.	21	2	20	22

2D Barcode Vs QR Code (Memo 30/2021)



Stakeholders

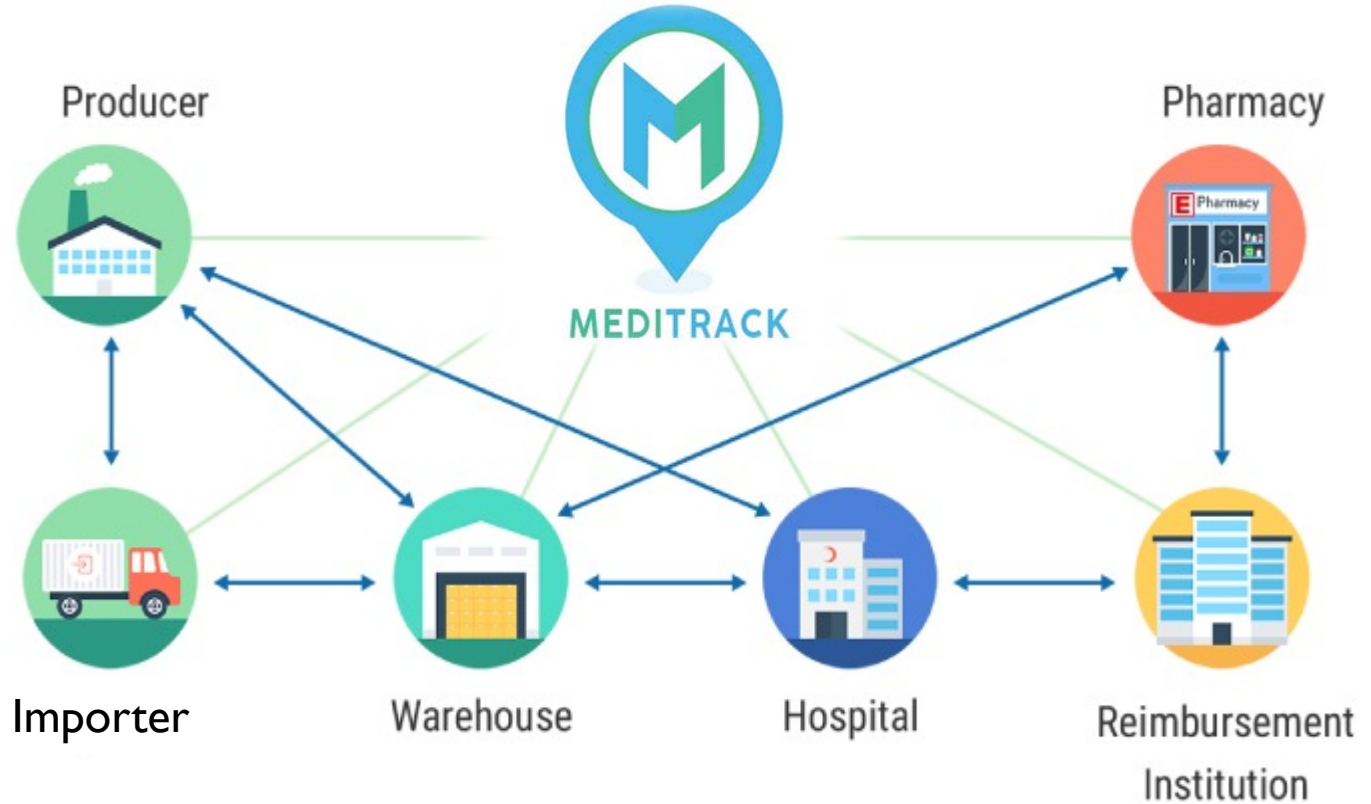
1. Pharmaceutical Manufacturers
2. Pharmaceutical Importers
3. Drugs Warehouses/ wholesalers
4. Pharmacies
5. Hospitals
6. World Health Organisation
7. GSI-Lebanon
8. Third Party Payers (NSSF, Cooperative of Public Officers, Private Insurance Companies, others...)

System requirements

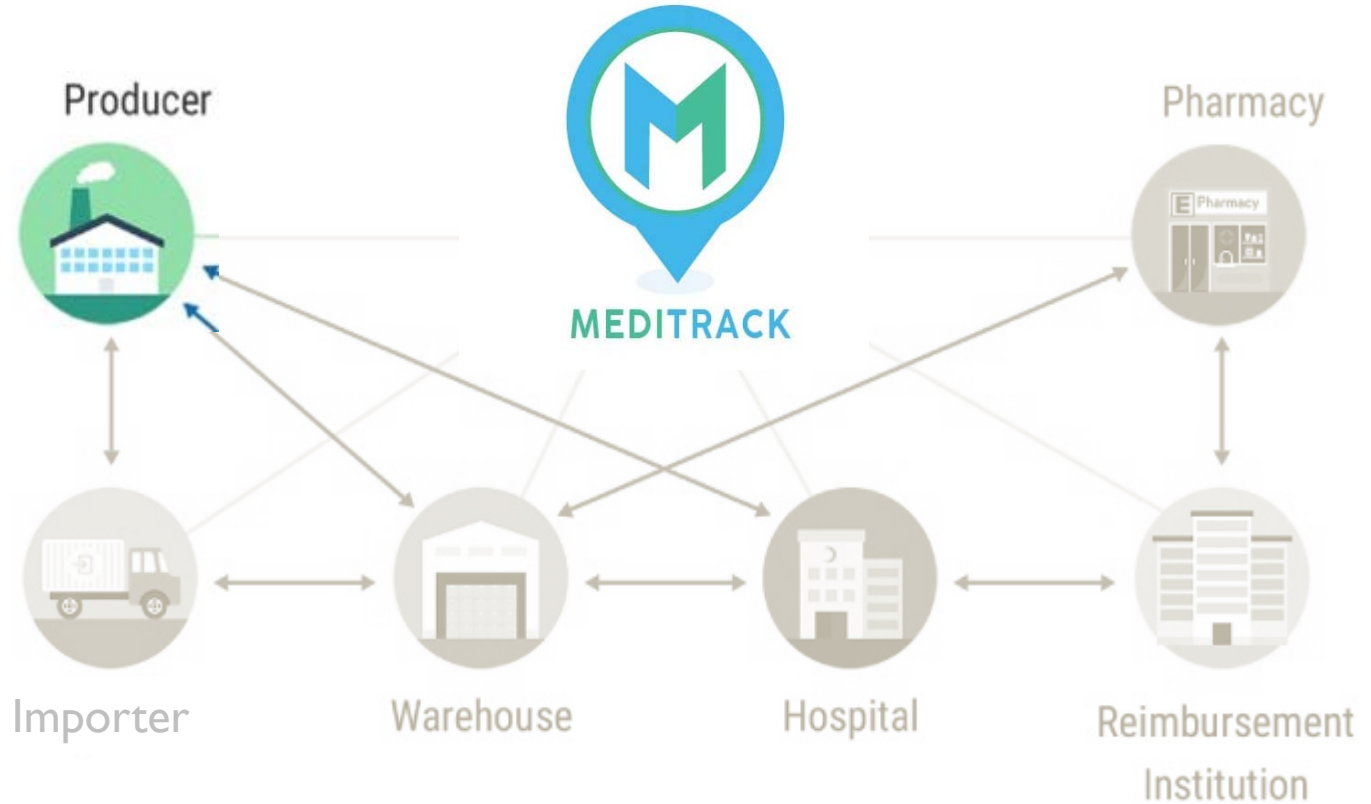
The pharmaceutical companies must be equipped with the following:

- Personal Computer
- 2D barcode reader with image based capabilities
- Internet connection

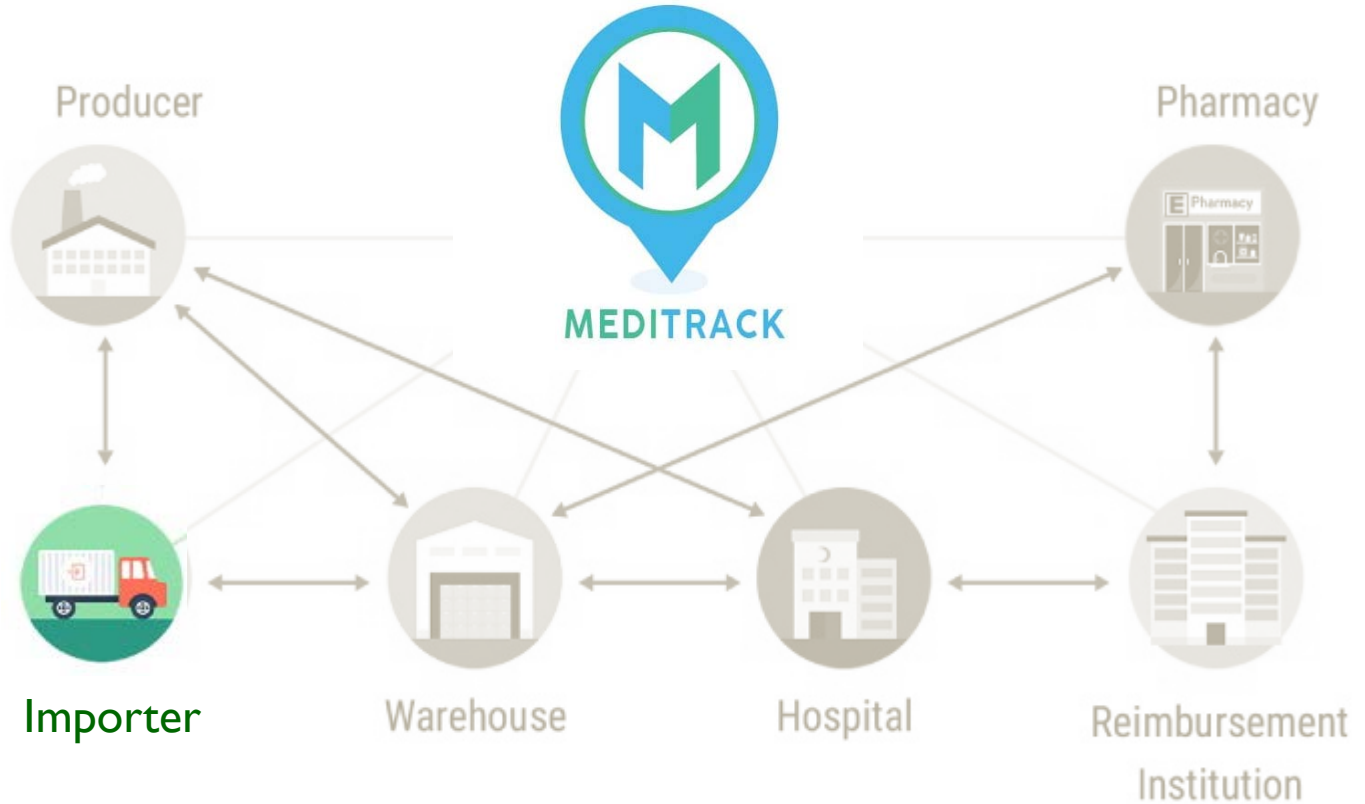
Information Flow



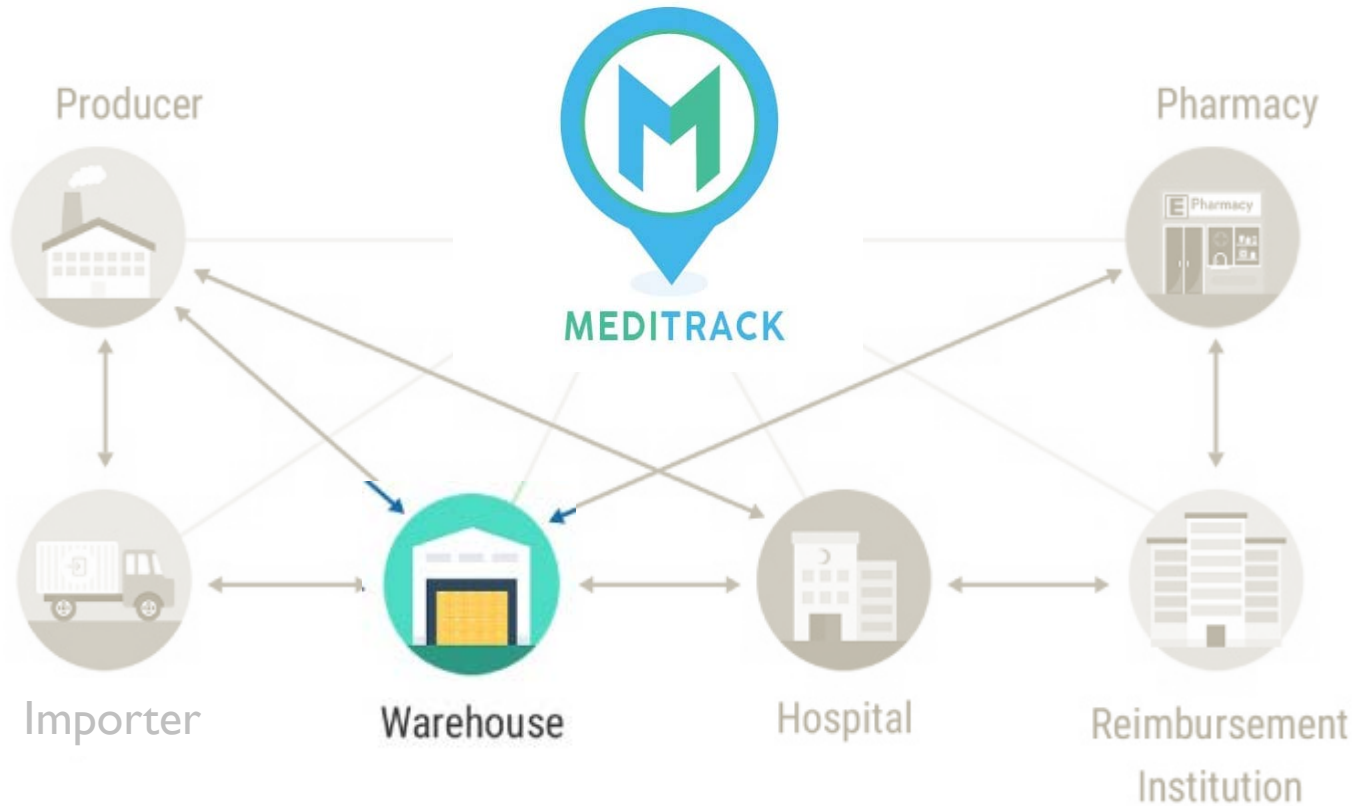
Information Flow



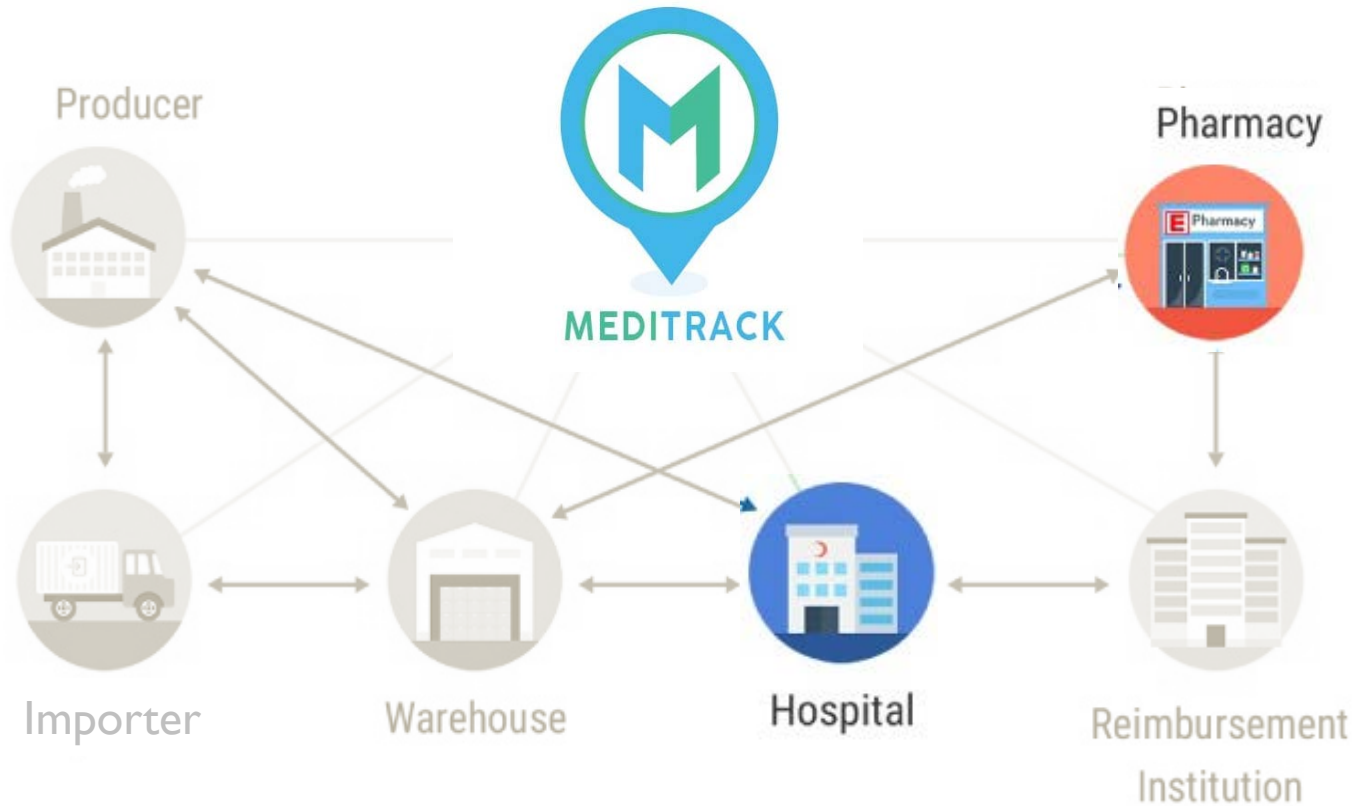
Information Flow



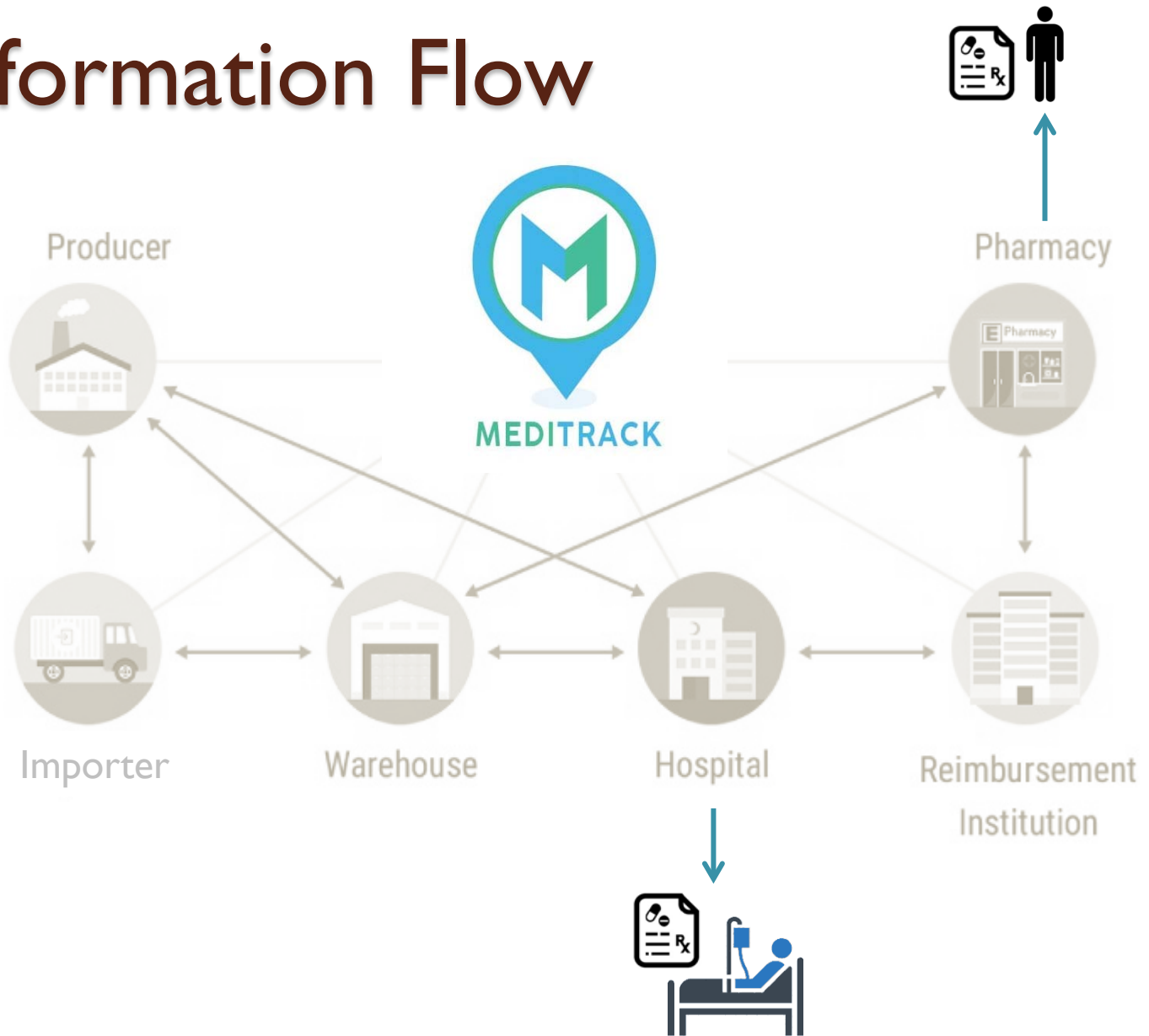
Information Flow



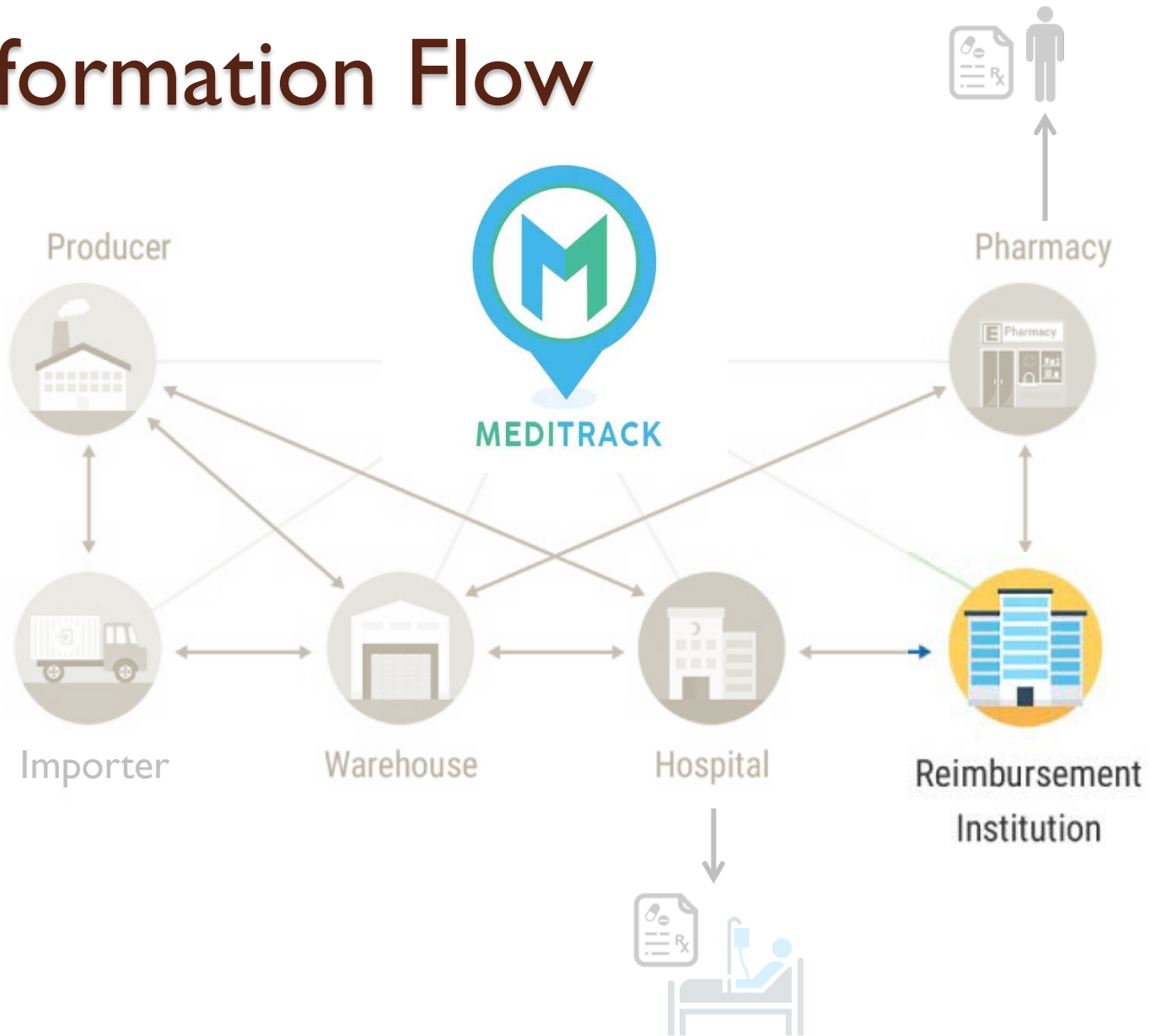
Information Flow



Information Flow



Information Flow



MediTrack Progress

➤ Phase I 2016-2020

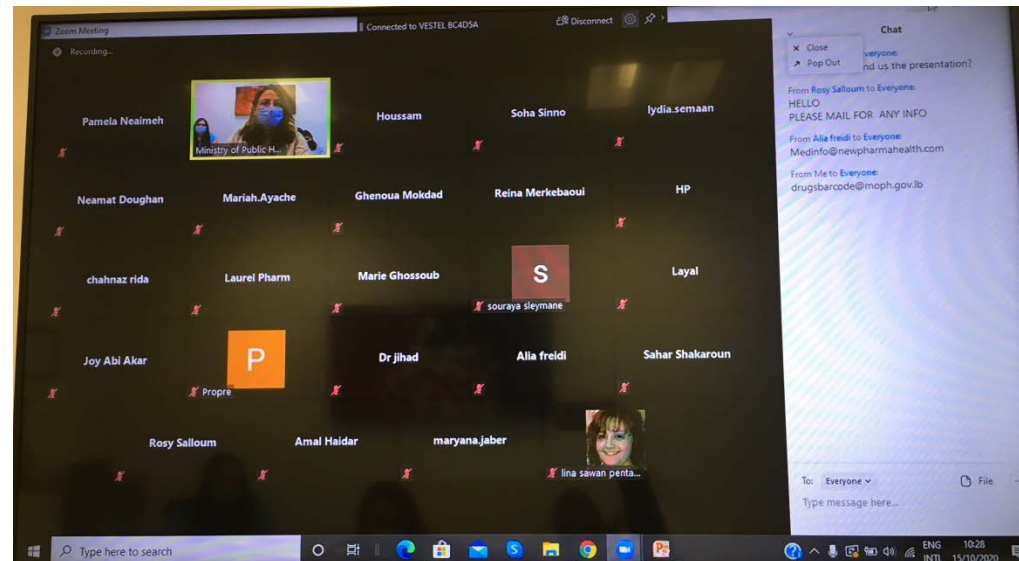
- Compliance with GSI Standards
- Implementation at pharmacy & E-health departments at MoPH

➤ Phase II 2020-2021

- Implementation at Drugs Importers and Warehouses (Registered medications and vaccines)
- Technical Guidelines published

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



MediTrack Progress

➤ Phase III 2021-2022

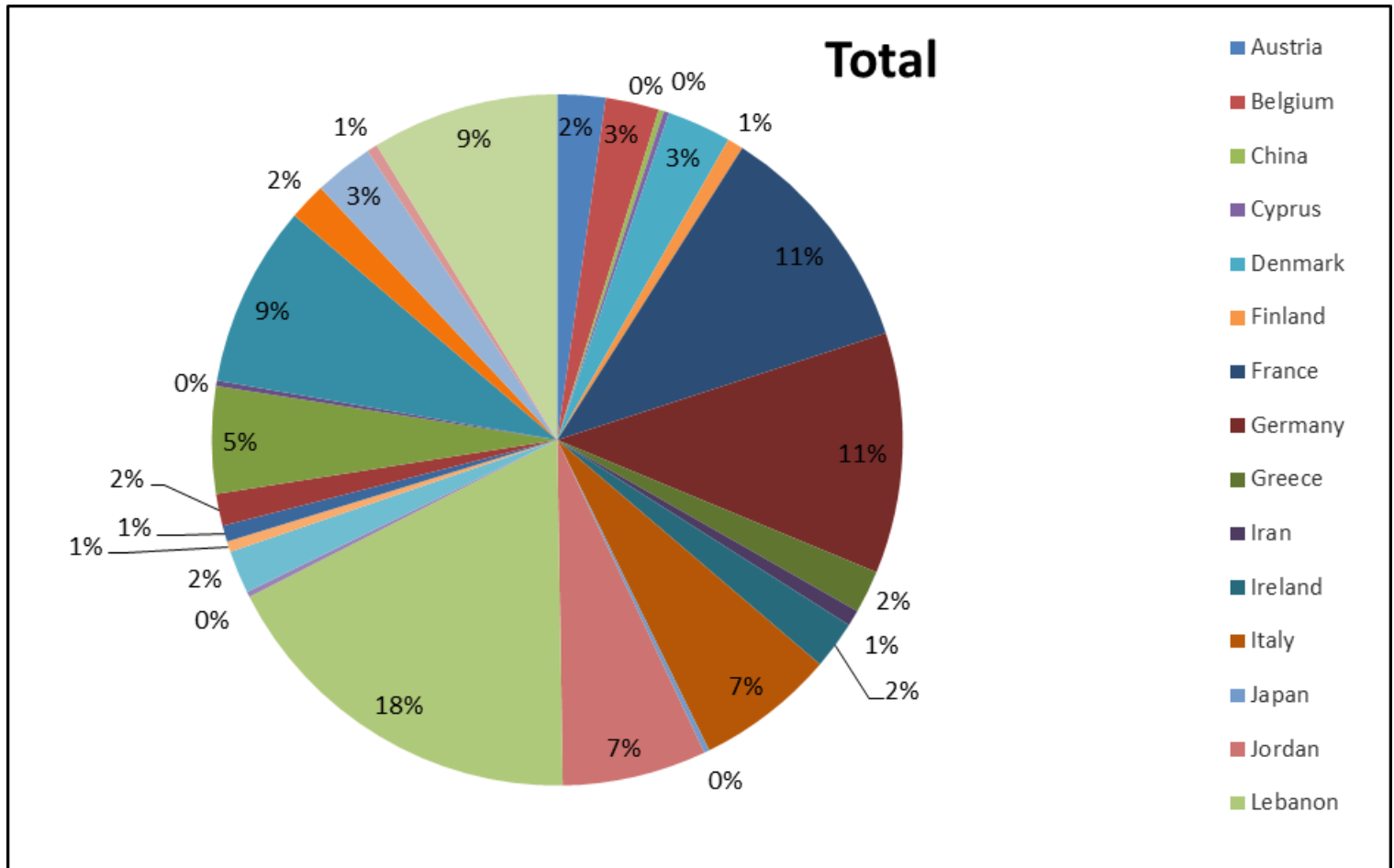
- Implementation in Community and hospitals pharmacies for cancer drugs
- Integration with LMS (Logistic Management System) at Karantina warehouse and dispensing centers for cancer drugs and drugs donations tracking

➤ Phase IV 2022-2023

- Implementation at Primary Healthcare Centers
- Implementation at Local Manufacturers

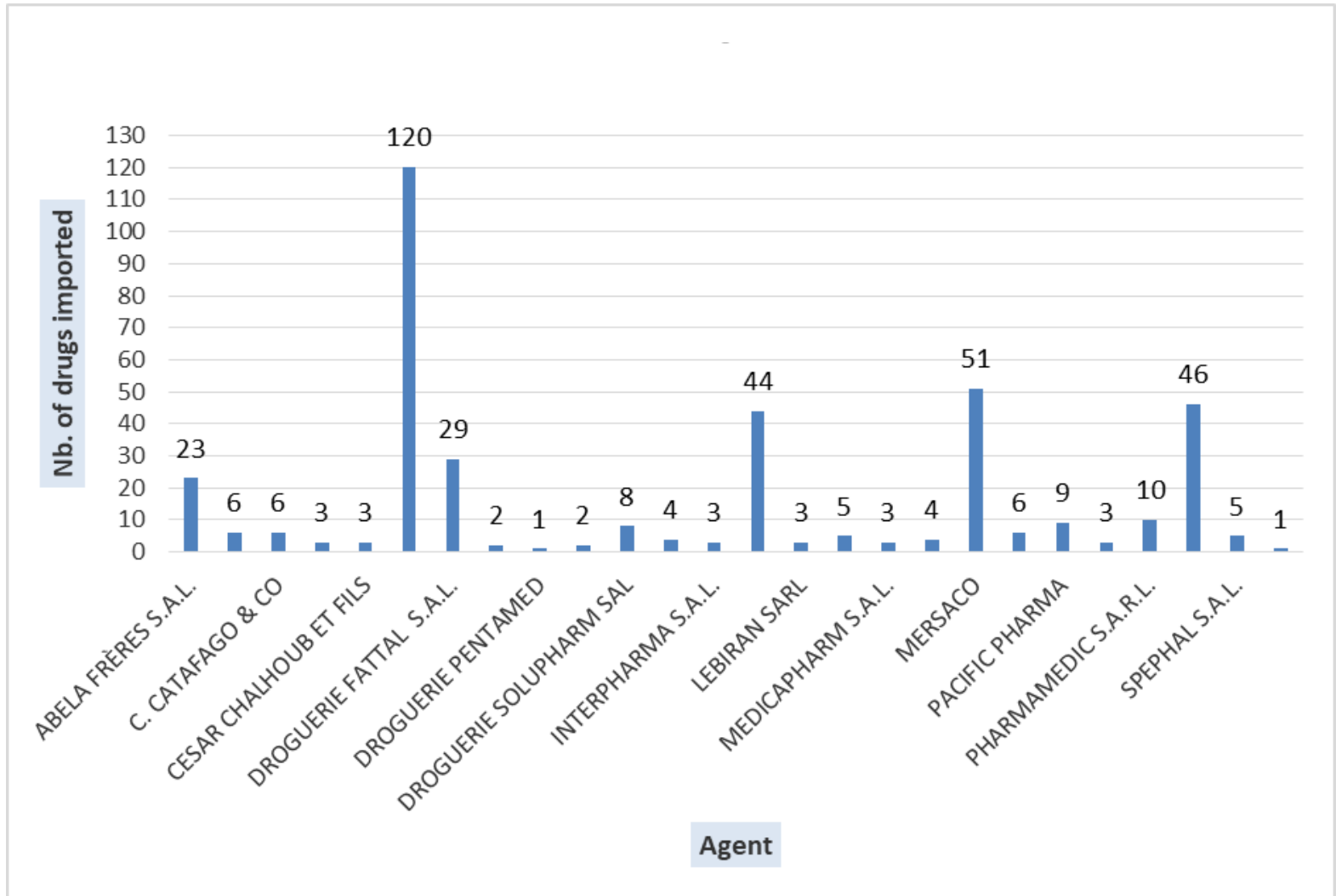
Insights

%. of imported drugs by Country of origin



Insights

NB. Of Drugs imported by agent





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For more info:

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

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Thank You