Arab Republic of Egypt

Egyptian Pharmaceutical Track
& Trace System (EPTTS)
By
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Head of PMIS, CEO of EPTTS

Egyptian Ministry of Health & Population
1. Introduction about Egyptian Market
Huge Market & Price Sensitive Population

Area
1 million Km$^2$

Population
99,297,893
CAPMAS 16/09/2019

Capital
Cairo

GDP
235,369.13
(World Bank, US $, billions) in 2014

27 Governorates
Huge Market

**Pharmaceutical Manufactures**
- 165 MF
- 1200 CMO

**Distributors & Wholesalers**
- 3000

**Patients**
- ~100 M Capita

**Pharmacies**
- 75,000

**Organizations**
- World wide Trading
  - 50 EXP
  - 60 IMP

**Pharmaceutical Trade Volume**
- 2.27 billion unit (10%)  3.8 Billion $ (16%)
Worldwide % of Fake Medicine

Percentage of counterfeit drugs:
- Red: between 20% and 30%
- Orange: between 10% and 20%
- Yellow: between 1% and 10%
- Light blue: less than 1%

Global Repartition of Counterfeiting Medicines
Printing GS1 2D DataMatrix on secondary packaging encoded with the following information

1. Global Trade Item Number (GTIN).
2. Batch Number.
3. Expiration Date.
4. Unique Serial Number.
EPTTS targets full tracking & tracing by dispatching & authentication throughout the whole Pharmaceutical Supply Chain
2. GS1 Standards used in EPTTS
GS1 Standards Used in EPTTS

- **GS1 Identification keys**: GTIN, GLN, SSCC & SGTIN.
- **GS1 Data Carriers**: GS1 2D DataMatrix & GS1 -128
- **Sharing Component**
- **Using the EPCIS Standards**
3. What’s new
EPTTS is complying with EPCIS

What? When? Where? Why?

- EPC/barcode data
- Real world goods

Supplier

Retailer

Finished Goods

Distribution Center

Finished Goods

Manufacturer

Warehouse

Raw Materials

Raw Materials
EPTTS are using 12 EPCIS Events

ADD
- Production (Commissioning)
- Packing

OBSERVE
- Shipping
- Receiving
- Void-Shipping
- Dispensing
- Blister Dispensing
- Recall

DELETE
- Destroying
- Unpacking
- Decommissioning
4. EPTTTS Implementation Guidelines V.2
Implementation Guidelines

Egyptian Pharmaceutical Track & Trace System (EPTTS)
Implementation Guideline
Version 2.0
Sep 2019

Link:
5. EPTTS First Pilot Trial Project
EPTTS Pilot Project

Pilot will be held in co-operation with different stakeholders as follows:

11 Manufacturers

- Servier
- MUP
- AstraZeneca
- EVA PHARMA EGYPT
- European Pharmaceuticals
- Novartis
- Pharco Pharmaceuticals
- ADCO
Pilot was held in co-operation with different stakeholders as follows:-
Serialization & Traceability is Not a Project
It is
A GLOBAL Transformation Program
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