

INFOSYS BLOCKCHAIN PRESCRIPTION DRUG ABUSE SOLUTION



Overview

Infosys Blockchain Prescription Drug Abuse Network aims to offer an effective tool for the health Agencies to prevent misuse of prescription drugs by establishing accountability of prescription and tracking at the pharmacy. The Opioid crisis has been declared as a health emergency in the United States¹. As per estimates, in 2017, 18 Mn people in the US and 29.5 Mn globally had misused such medications. Common opioid alone killed 48005 in the US alone for the 12 months ending Feb'2019. More than 170 people die every day because of opioid overdose. An estimated 40% are from prescription-based Opioids. The abuse of opioid analgesics results in over \$72 billion in medical costs to payers in the US alone each year.

In the recent past, the adoption of prescription drug monitoring programs (PDMPs) in the US or Electronic Prescribing Systems (EPS) in the UK or Europe has gained momentum. The usability and interoperability of such central repositories are being reviewed.



Solution Overview

Infosys Blockchain Prescription Drug Abuse minimum viable business network offers an ecosystem for health & pharma regulators to create a robust supply chain for prescription drugs and prevent prescription abuse or misuse by establishing end-to-end traceability of drugs. The Infosys Blockchain-powered MVP acts as a single platform to prevent prescription misuse by attributing the liability for abuse to the physician who prescribes the drug or to the pharmacist at the point of fulfillment. Tracking the chain of custody of the drug packages throughout the supply chain enables an end to end traceability of the drug from production to consumption bringing about complete transparency.







Solution Key Benefits

- Increased process transparency, accountability, consistency and control
- Improved communication among doctors, pharmacists and patients
- Improved process efficiency and compliance
- Higher Data integrity for each stake holder



Case Study

 Client Name	 Problem Statement	 Challenges	 Benefits Delivered
US State Government	Client wanted to build a transparent & secure chain of custody to track prescription drugs from source to pharmacy point of sale	<ul style="list-style-type: none"> • Risk to public health because of prescription Opioid overdose • The medical and prescription cost of Opioid abuse is estimated to be approximately 72.5 Billion USD annually • 40% of the Opioid overdoses are from prescription Opioid • Lack of transparency and accountability • Fraud and theft may happen during production, transportation or Quality Analysis 	<ul style="list-style-type: none"> • MVP demonstrated improved transparency between physician, pharmacist and patients • Reduced counterfeit in pharmaceutical supply chains • Increased accountability and control

References : <https://public3.pagefreezer.com/browse/HHS.gov/31-12-2020T08:51>/<https://www.hhs.gov/about/news/2017/10/26/hhs-acting-secretary-declares-public-health-emergency-address-national-opioid-crisis.html>

To know more about Infosys Blockchain Prescription Drug Abuse Network, please reach out to blockchain@infosys.com.