

Prescriptions: Balancing Fraud and Flexibility

How blockchain can transform and modernize prescriptions management



Payer Subgroup

Current Workgroup Active Members

Payer Subgroup Meets

- Every other Friday from 1:00 PM 3:00 PM EST (It's the following Friday of the the Healthcare SIG Meeting)
- Next Meeting July 3rd , 2020

Wiki Page https://wiki.hyperledger.org/display/HCSIG/HC-SIG+-+Payer+Subgroup

Everyone is welcome to join and anyone can contribute



Current State Prescriptions and Fraud

- Prescription medication abuse is one of the greatest public health crises facing our nation today, tearing apart families, devastating communities and driving up medical costs.
- Some prescription fraud types
 - Doctor shopping and getting multiple prescriptions
 - Getting the same prescription too often or too soon
 - Automatically refilling a prescription when a patient did not request a refill. Without the patient's knowledge, the pharmacy will then bill payer for prescriptions that patients never picked up.
 - Duplicate Billing Billing multiple payers for the same prescription
 - Phantom Prescriptions Billing for a forged or nonexistent prescription
 - Diverting legal prescription medications takes various forms. Prescriptions are gained by multiple presentations of forged documents, the use of prescription drug benefit cards for other than the rightful owner of the benefit, the use of the benefit card to supply medications to a relative, a friend, or to buy favors with.

"The retail value of prescription drugs filled annually in the United States exceeds \$300 billion with approximately"

Interesting facts

BREAKDOWN OF PRESCRIPTION DRUG FRAUD BY TYPE -

The greatest amount of fraud is contributed by **DRUG-SEEKING BEHAVIOR** such as addiction.



PRESCRIPTION DRUG FRAUD BY REGION

The south contains the MAJORITY OF PRESCRIPTION DRUG FRAUD found in the United States



Source: - https://www.bcbs.com/the-health-of-america/articles/signs-of-prescription-medication-fraud-and-how-stop-it

All solutions are after the fact analysis based

There are limited to no options in real time preventing some of this fraud

Prescription Management – Current State Business Viewpoint



Eye-ware Prescription Management – Current State Business Viewpoint



Flexible Prescription Management Blockchain Viewpoint



Key Highlights

- Steps 3, 4, and 5 on previous slide are big dissatisfiers for a genuine patients/members are eliminated in new process
- Patient has the flexibility to use any fulfiller any time
- **Fraud** can be prevented due to real time consent
- Once fulfilled, the prescription is marked fulfilled with notes from pharmacists

Flexible Prescription Management



Participants

- 4 Org 4 Peers
- For now one channel
- One chain code
- Users provider, patient, pharma, payers

Assets

- Paitent ID
- Provider ID (NPI)
- Pharmacy ID
- Prescription ID
 - Prescription DATA
- PAYER ID
 - CONSENT for Member

Functions

- Query
- Update

Various questions to be answered

- Who all will run the nodes for network Payers, Providers, Pharmacy etc.
- What all data will be on chain and off chain
- How to manage identity Single Identity across various payers or different identities for different payers
- Consent should be revocable
- Should all retrievals of prescription be alerted to the patient
- How to manage partial fulfillment

Current Resources & Deliverables

- Use Case Document Work In Progress
 - <u>https://docs.google.com/document/d/1k8LDb5XuMoTDktQkB2PV0lXowjGws0ltco6QFpOvIA</u> c/edit?usp=sharing
- Payer Subgroup Wiki Page
 - <u>https://wiki.hyperledger.org/display/HCSIG/HC-SIG+-+Payer+Subgroup</u>
- Git Hub repo
 - <u>https://github.com/hyperledger-labs/modern-pharmacy-management</u>