Digital Pharmacy: Concept

The idea behind the attached bpnm model is as follows:

**Part 1**

Every person living in Switzerland is supposed to have a mandatory health insurance. In the model we are depicting a person as ‘patient’. Underlying assumption is that all the people already living in Switzerland have a health insurance and a unique ID issued by the insurer. The ‘patient’, in our model is someone **new** in Switzerland.

Step 1: Open Health insurance

In our model we would like to focus more on the interaction between healthcare providers i.e. praxis or hospital and pharmacy, so we will **not model** the process of issuing health insurance. We will only model the generation of a unique ID.

Step 2: Patient receives unique ID

**Part 2**

When the ‘patient’ falls sick or needs medical advice, they visit a doctor. The doctor is able to identify the patient using the unique ID issued by the insurer. Patient is checked and if medication is required, the doctor sends an electronic prescription to a pharmacy.

**Scope of automation**: list to check drug interactions and sending electronic prescription to the pharmacy.

**Part 3**

Pharmacy receives medical prescription from a doctor. Pharmacy can also uniquely identify the patient using the id issued by the insurer. The prescription is cross validated for drug interactions, inventory is checked and the patient is notified when the medicines are ready for pick up.

**Scope of automation**: cross validate drug interaction, check inventory, notify customer.

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**How this model could improve efficiency:**

**For healthcare providers:**

Maintenance of list of drugs with possible interaction.

Electronic record of drug issued to a patient.

**For pharmacy:**

Better utilization of resources.

Scope to offer other services like consultation, vaccines, tests such as blood sugar etc.

**For patient**

No standing in long queues to pick up medicine at pharmacies.

Medication issued in correct dosage, receive reminder about, prescription renewal.