**Objective**

How are you feeling today?

**kHealth Kit**

A knowledge enabled analytical framework of Augmented Personalized Healthcare (APH) approach for continuous monitoring of chronic disease, its progression, and the patient’s health.

- **Weather Underground (Temperature and Humidity)**
- **PollNet (Pollen count)**
- **(Q) Outdoor Environmental**
- **(R) Ribbit (Activity and Sleep)**
- **Peak Flow Meter (PEF and FEV1)**
- **Visual Aid (Continent questions)**
- **(C) Patient Generator Health Data (PGHD)**
- **(B) mHealth Application**
- **(A) Portal (Intral Air Quality monitor + VOC, CO2, PM2.5)**
- **(D) Clinic Notes**

**kHealth Kit for Pediatric Asthma involving multi-sensors collecting personalized multimodal data streams (Clinical notes, mHealth application, PGHD and Outdoor environmental observations)**

**Questions to be answered**

- Can we reduce the number of asthma attacks through continuous monitoring of the patient’s health condition?
- Can we predict the asthma attack based on the data collected from the patient?
- Can we predict the asthma vulnerability score for a patient?
- Can we predict the asthma severity level of a patient?
- Can we understand the causal relationship between the asthma symptom and possible factors responsible for it?

**In the ongoing trial involving pediatric asthma patients, we have consented 90 patients out of 150 study cohort.**

- The kHealth kit collects 1862 data points patient/day on 29 different parameters.
- The study has over 75% patient compliance.

**kHealthDash**

A Platform to Visually Analyse to find Correlations (e.g., Patient Symptoms and Personalized Data)

**Multimodal Data Streams & Anonymised Patient Data Visualized for Correlation Analysis interpreted in with the help of knowledge graph (relevant medical knowledge)**

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