



Experience of using Patient Generated Health Data (PGHD)



Patient Generated Health Data (PGHD)

Advantages

- ✓ Patients can contribute to their own health record.
- ✓ Information collected outside health settings are recorded
- ✓ Data can be objective like temperature, blood pressure, oxygen saturation etc.
- ✓ Subjective data such as mood, anxiety scores can be recorded.
- ✓ Big data can be useful for research and “real world evidence”
- ✓ Clinicians have more detailed and longitudinal view of patient’s health
- ✓ Monitoring information such as peak flow , mood chart can help deliver proactive care

Patient Generated Health Data

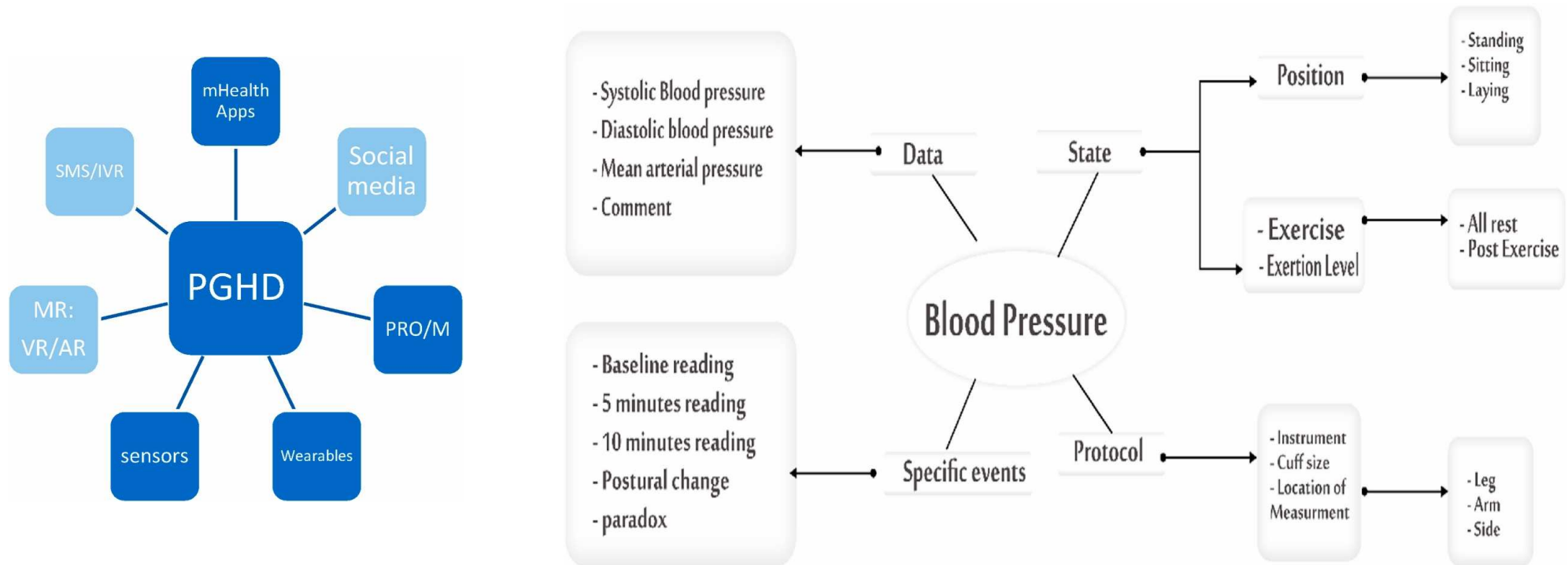
Disadvantages

- ✓ Accuracy of patient generated data
- ✓ Medicolegal implications of decisions made based on patient generated data
- ✓ Privacy issues- who can access the information
- ✓ "Tsunami "of data means useful information can get crowded out of the health record.
- ✓ Security of data and cost of storing large quantities of data securely.
- ✓ Legal requirements across different countries e.g. GDPR in Europe and HIPPA in U.S.
- ✓ Issue of data controller- in UK, GP's are the data controllers and as mostly in partnerships have unlimited medico-legal liability.

Concept

- ✓ **Joint project between Crown Medical Practice, County Council and Health Companion**
- ✓ **Funded by Innovate UK**
- ✓ **Two-year project**
- ✓ **Care plans for multiple long-term conditions and health and wellbeing**
- ✓ **Integration with EMIS**
- ✓ **Patient dashboards at surgery, PCN, ICB level**
- ✓ **Co-created with patients and communities**
- ✓ **Integration with EMIS completed.**

Examples of acquiring PGHD

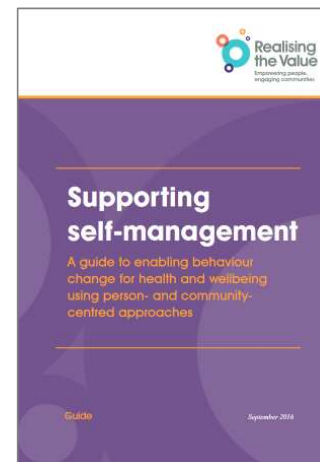
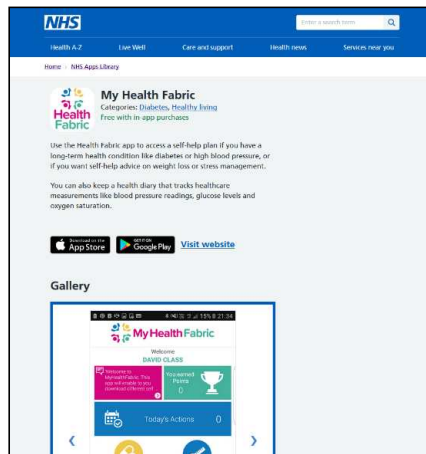
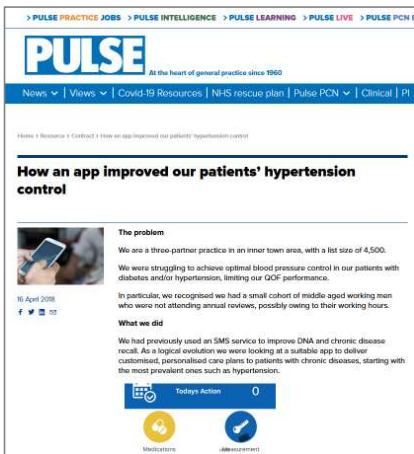


PROM- Patient Reported Outcome Measures, MR-Mixed reality, VR-Virtual Reality, IVR- Interactive Voice Response

Our History

- Health companion has worked with Crown Medical Practice and other practices in Tamworth since 2016
- Finalist in EHI awards 2017 (best app for patients and carers)
- Previous system was accredited on NHS apps Library

- Technology alone does not solve health problems
- System must work to support behaviour change models
- Co-design – we have always designed services with stakeholders which include software developers, GP's, patients and communities



Universally accessible self care and support

UNITY



Service users across the communities, access multilingual self care plans. Short videos in multiple languages



Service users create and leverage virtual networks of family and friends for self care support



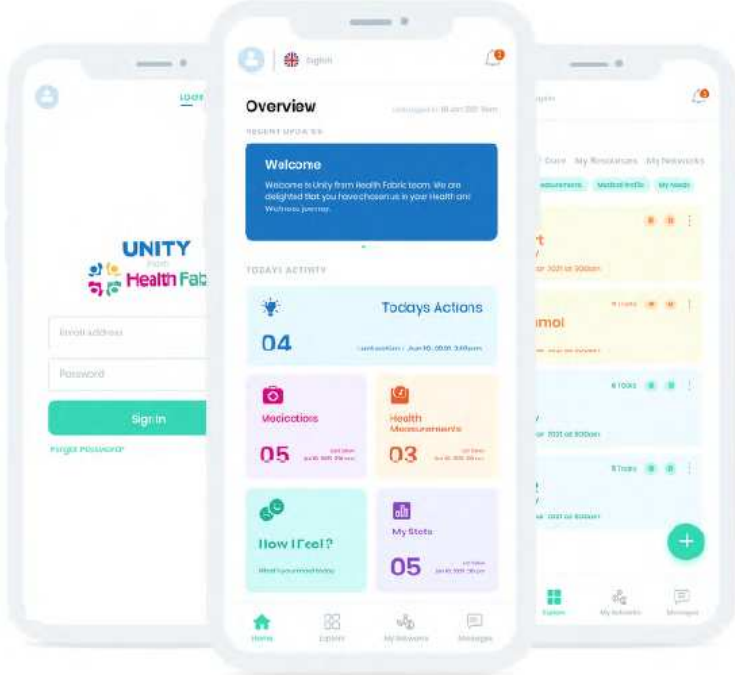
Multi disciplinary clinicians publish their self care guidance



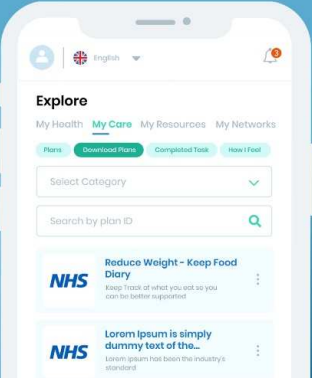
Machine learning creates personalized alerts and compliance support for the service user

Community powered co-creation in health and care

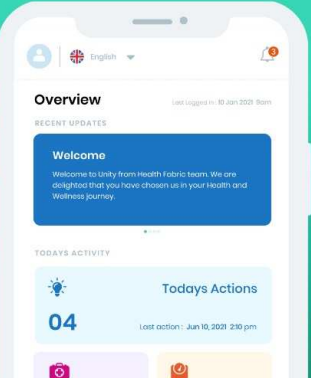
The Unity App



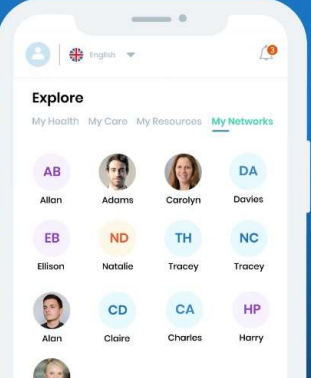
Download a self-management plan – choose from our self help library of plans which support a range of long term conditions. Health organisations create self help plans and then help monitor you remotely.



Pick your language – if you prefer to use the app in another language simply choose from the list available, and the information will be made available in the language of your choice



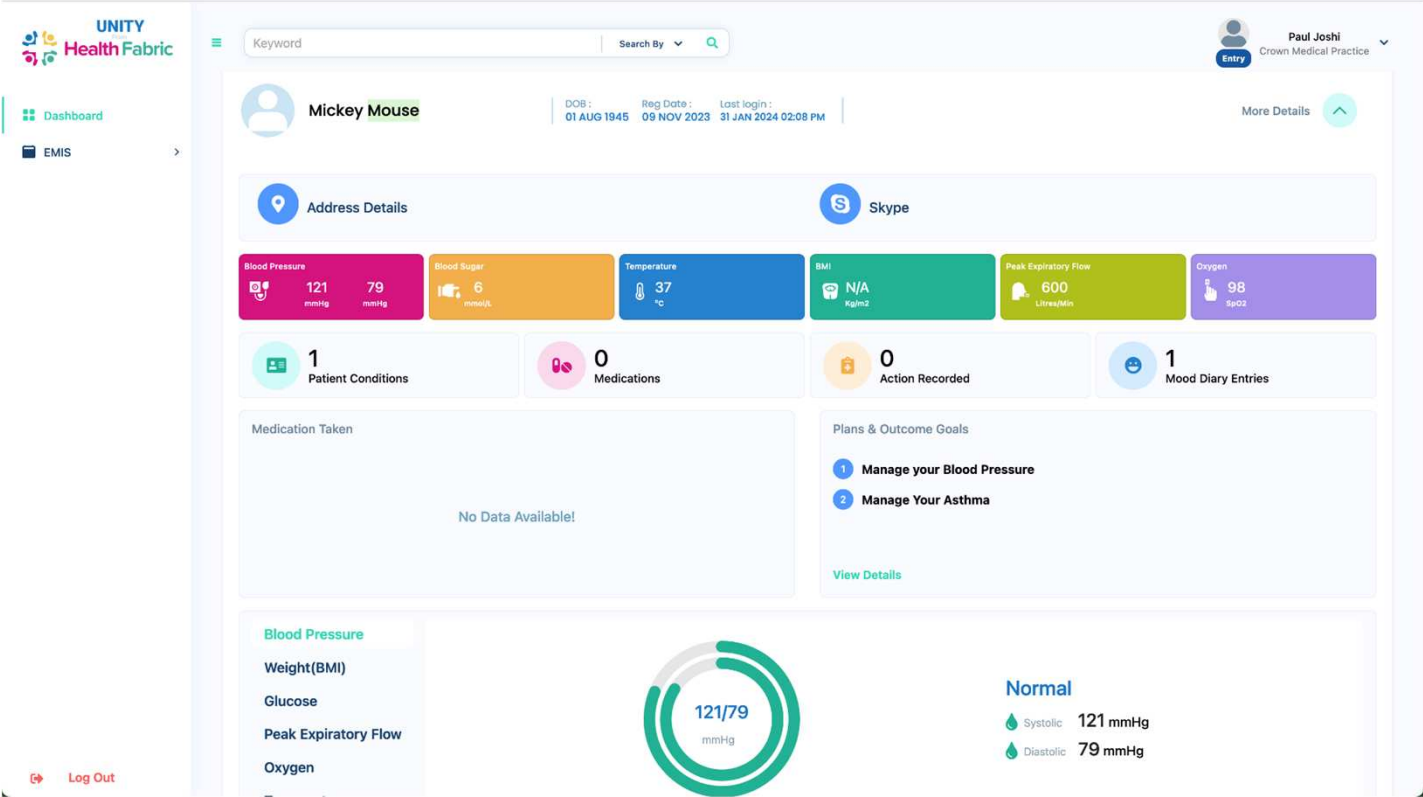
Get Support – Add people to your network and choose what data they see to provide you remote monitoring and support. This could be a friend, family or even a coach or clinician.



Community powered co-creation in health and care

EMIS integration

Care plans can be sent from EMIS and patient recorded data such as pulse rate, BP, saturation, blood sugar, mood can be seen in the dashboard or EMIS web



Community powered co-creation in health and care

Dashboard for proactive population management

UNITY HealthFabric

Keyword Search By

Paul Joshi
Crown Medical Practice

PCNs and GPs Plan Mapping

PCN Code	PCN Name	Plan Category	Plans	Actions
U03298	RICHMONDSHIRE PCN	Alcohol	Test20Jan2023	<input type="button" value="Eye"/> <input type="button" value="Refresh"/>
U00203	ECCLES & IRLAM PCN	Diabetes	Diabetes and Fasting	<input type="button" value="Eye"/> <input type="button" value="Refresh"/>
U00203	ECCLES & IRLAM PCN	Diabetes	Diabetes Footcare	<input type="button" value="Eye"/> <input type="button" value="Refresh"/>
U00203	ECCLES & IRLAM PCN	Diabetes	Managing Type 2 Diabetes	<input type="button" value="Eye"/> <input type="button" value="Refresh"/>
U00254	BLACKHEATH AND CHARLTON PCN	Other	Dehydration	<input type="button" value="Eye"/> <input type="button" value="Refresh"/>
U79533	MERCIAN PCN	Hypertension	Manage your Blood Pressure	<input type="button" value="Eye"/> <input type="button" value="Share"/>
U79533	MERCIAN PCN	Asthma	Manage Your Asthma	<input type="button" value="Eye"/> <input type="button" value="Share"/>
U79533	MERCIAN PCN	Asthma	How to Manage an Asthma Attack	<input type="button" value="Eye"/> <input type="button" value="Share"/>
U79533	MERCIAN PCN	Asthma	How to Manage Your Asthma Getting Worse	<input type="button" value="Eye"/> <input type="button" value="Share"/>
U79533	MERCIAN PCN	Asthma	How to Manage your Daily Asthma Care	<input type="button" value="Eye"/> <input type="button" value="Share"/>
U79533	MERCIAN PCN	Diabetes	Gestational Diabetes	<input type="button" value="Eye"/> <input type="button" value="Share"/>

1 - 18 of 18 items

Community powered co-creation in health and care

Multiple customizable care plans for Surgery, PCN, ICB

The screenshot displays the 'GP Content' management interface in the UNITY HealthFabric system. The interface includes a search bar at the top, a user profile for Paul Joshi, and a sidebar with navigation options. The main content area features a table of care plans with the following data:

Plan Category	Plan Name	Language	User Message	User URL	Actions
Asthma	Manage Your Asthma	English	Your GP has sent you information on how to manage your asthma using the UNITY app from Health Fabric. Click the link to get started.	http://bit.ly/3YxNIGD	
Diabetes	Managing Type 2 Diabetes	English	Your GP has sent you information on how to manage type 2 diabetes using the UNITY app from Health Fabric. Click the link to get started.	http://bit.ly/3xkD5pg	
Diabetes	Diabetes and Fasting	Punjabi	Your GP has sent you information on how to manage your diabetes whilst fasting, using the UNITY app from Health Fabric. Click the link to get started.	http://bit.ly/3ZUTFix	
Diabetes	Diabetes and Fasting	Urdu	Your GP has sent you information on how to manage your diabetes whilst fasting, using the UNITY app from Health Fabric. Click the link to get started.	http://bit.ly/3l8kFp7	
Mental Health	How to Manage Anxiety	Polish	Your GP has sent you information on how to manage anxiety using the UNITY app from Health Fabric. Click the link to get started.	http://bit.ly/3YAEpPV	

At the bottom of the table, there is a pagination control showing '1 - 20 of 72 items' and a 'Log Out' button in the bottom left corner.

Community powered co-creation in health and care

All Snomed codes are available for mapping

The screenshot shows the UNITY HealthFabric interface. On the left is a navigation menu with options: Dashboard, EMIS, PCNs and GPs Plan Mapping, GP Practice and PCNs Mapping, GP Content, SNOMED Code (highlighted), Audit Log, and Manage Health Measurement Range. At the bottom left is a 'Log Out' button. The main area is titled 'SNOMED Code' and features a search bar with 'Keyword' and a 'Search By' dropdown. A user profile for Paul Joshi, Crown Medical Practice, is shown in the top right with an 'Add New' button. Below the search bar is a table with 10 rows of SNOMED codes. Each row includes columns for Plan Category, Sub Category, Display Name, SNOMED Code, Colloquial Name, and Actions (edit and delete icons). At the bottom of the table is a pagination control showing '1 - 10 of 10 items'.

Plan Category	Sub Category	Display Name	SNOMED Code	Colloquial Name	Actions
Blood Pressure	Systolic	Self reported systolic blood pressure	1162737008	Home systolic BP (Top reading)	
Blood Pressure	Diastolic	Self reported diastolic blood pressure	1162735000	Home diastolic BP (Bottom reading)	
Glucose	Glucose	Glucometer Blood sugar	166900001	Finger prick blood glucose	
Temperature	Temperature	Tympanic Temperature	415974002	Temperature using ear thermometer	
BMI	BMI	Self reported body weight	784399000	Home body weight	
Oxygen	Oxygen	Peripheral oxygen saturation	431314004	Finger oxygen saturation	
Peak Expiratory Flow	Peak Expiratory Flow	Peak expiratory flow rate	18491006	PEFR	
Mood	Normal	Normal mood	134417007	Normal mood	
Mood	Very Happy	Elevated mood	81548002	Very happy mood	
Mood	Low	Depressed mood	366979004	Low mood	

Community powered co-creation in health and care

