

Digitising outpatients

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Barts Health
NHS Trust



Disclaimer



- Dr Das is CEO of Ortus-iHealth as well as a Cardiologist at Barts

The Problem

- The number of hospital outpatient appointments has almost **doubled to 94million** in the last 10 years, costing **£8billion**
- Over a quarter of doctors** say many **need not have come** to clinic or be seen in person
- In 2016-17, almost **8 million outpatient appointments were missed** due to patients not attending , costing nearly **£1billion**
- In 2017-2019, there were **5.5m Telehealth consultations in NHS Hospitals** (2.9% of all consultations)

The Problem

- Lots of virtual clinic solutions
- But who is all of this for?
- We can't forget about patients!

The Problem



Dear Doctor Das,

I'm sorry to email you however, I am at a loss as where to go next apart from making a **complaint to NHS England**. You kindly saw me 6 months ago. You decided to see me 6 months later. 8 months have passed and I have had **3 appointments cancelled** so far. I have tried to call Byron ward at Whipps Cross Hospital, who gave me the cardiology secretary number which I called on numerous occasions only getting an answer phone once, which I left a message on with all my contact details **to date no reply**. I have sent an email to bhnt.electrophysiology@nhs.net two weeks ago which was not even acknowledged, I have also been to my GP who states that he would write to you again!

I am a serving **police officer** and currently on restricted duties until cleared by my occupational health dept. Please can you forward this to someone who can help!

Paul

Were we ready?

Barts Video Clinic Strategy & Local CCG agreement

- Tariff agreement at present to pay **same tariff** as face to face
- Senior **management buy-in** – to do things differently
- Great **work already** within Barts to set the agenda

News

Newham diabetes Skype pilot success increases young people's clinic attendance

📅 19 January 2016

Diabetes Digital

As a new NHS England service specification is launched on diabetes transition, Newham's

Were we ready?

Barts Video Clinic Working Group

- Senior management
- Clinicians
- IT representation
- Outpatient booking & clinical support services
- Information governance lead

Were we ready?

Barts Video Clinic Working Group

- Standard Operating Protocol devised with video clinic appointment generation in Cerner

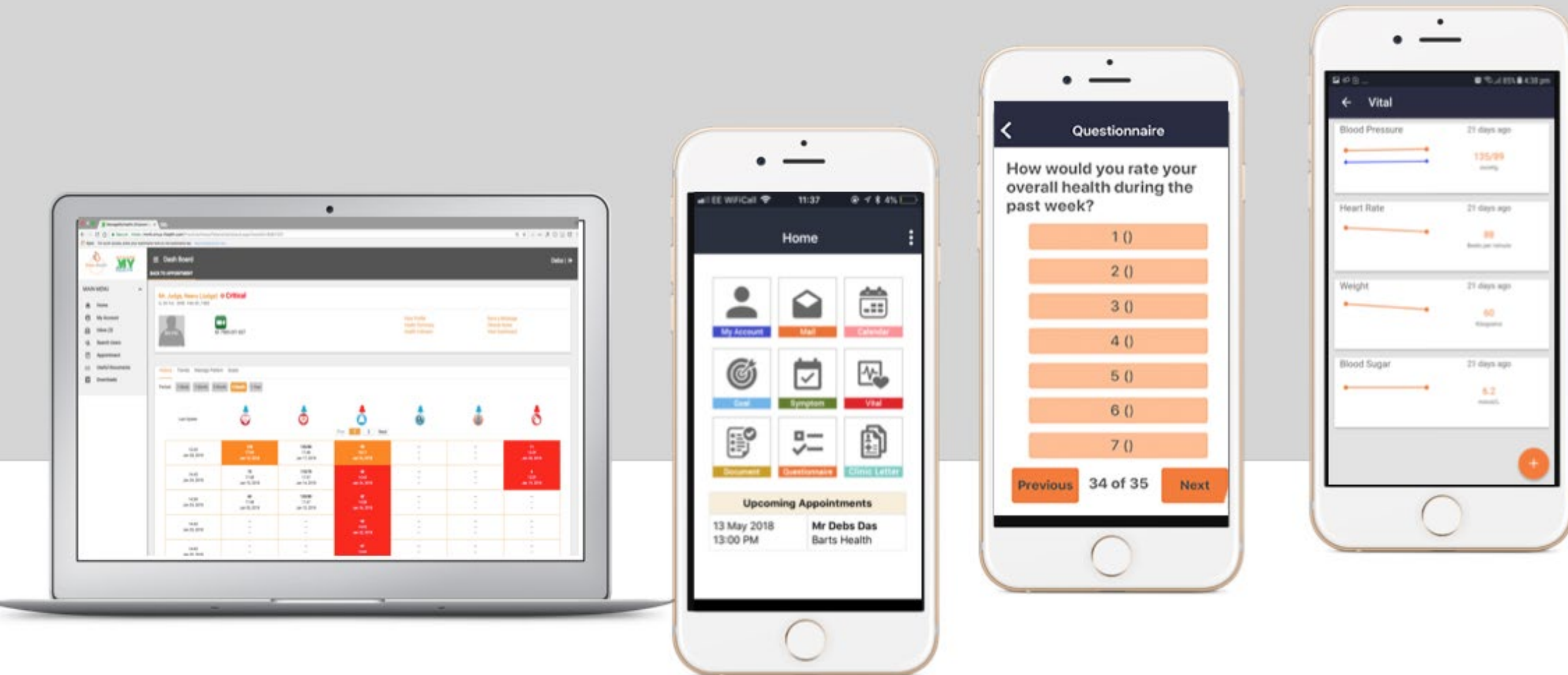
Standard Operating Procedure Title CAG/Service: SOP Ref Number:		Barts Health NHS NHS Trust	
Nurse-led follow-up Video Clinic for post ablation EP Patients			
Date approved		Review Date	
Effective from		Version:	1
CAG/Service	Cardiology - Electrophysiology		
Author	Paula Martinez, Arrhythmia Nurse Specialist		
Approving Committee (s)			
Consultation	Video Follow Up Clinic		
Related Policy	DNA/cancellation policy, CRS booking guide		
Standards	List externally generated standards that the SOP must meet, (CQC, NICE etc)		
Superseded Documents			
Keywords	"video" "post ablation"		
Intranet Locations	http:// [file location]		
Document Revision Record			
Amendment Date	Version Replaced	Sections Involved	Amendments

Standard Operating Procedure Title CAG/Service: SOP Ref Number:		Barts Health NHS NHS Trust	
1 PURPOSE			
A Standard Operating Procedure (SOP) is a detailed written document that defines how a particular process is to be performed. This SOP aims to provide clear guidance on the steps required for both scheduling and running a nurse-led Video clinic. This clinic will be the primary responsibility of the Arrhythmia Clinical Nurse Specialists and one of the Electrophysiology consultants.			
The aim is that by following the guidance we will:			
1.1	Improve access to outpatient care for all arrhythmia patients, but particularly those who are too infirm to have face-to-face consultations or those that live at a far distance from the hospital.		
1.2	Decrease the volume of outpatient DNA rates.		
1.3	Conform with the Trust's strategic objective to transition more outpatient services over to an online domain, whilst simultaneously freeing more outpatient rooms for necessary face-to-face consultations.		
1.4	Give patients the opportunity to discuss their conditions in the comfort of an environment which suits them and their lifestyles.		
1.5	Minimise long waits as a source of complaint, principally because patients can occupy themselves at work or home (for instance) whilst they wait for their appointment to commence.		
1.6	Develop a better sense of how online clinics work and, in turn, use the Arrhythmia Post Ablation Follow Up Clinic as a modality for spreading this practice to other specialties.		
1.7	Ensure that every contributing party understands their role and thus works to mitigate/avoid any potential risks to the project.		
1.8	Make sure staff covered by this SOP are clear about the policy and legal framework within which they work.		
2 SCOPE			
2.1	This SOP covers both the clinical and administrative steps which are activated whenever a patient is deemed eligible for a Video consultation.		

Our solution



A comprehensive virtual clinic platform

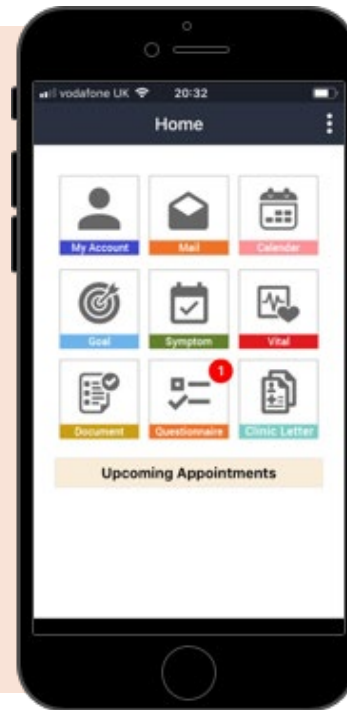


Our solution

For patients, a smartphone app

Manage appointments

- View appointments
- Receive reminders
- Reschedule appointments



Better aftercare

- View clinic letters
- Receive medication reminders
- E-mail clinicians



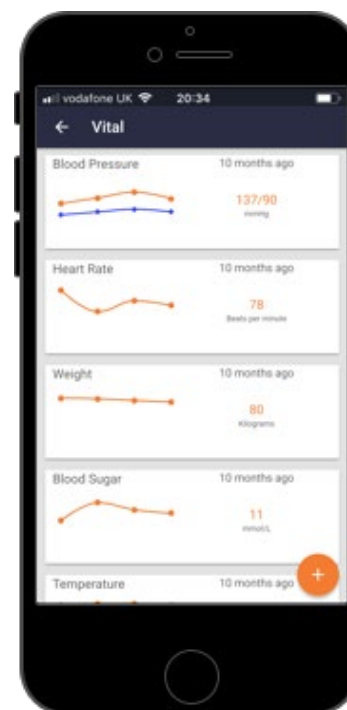
Interact with clinicians

- Clinician-approved questionnaires
- More focussed discussions
- Video consultations



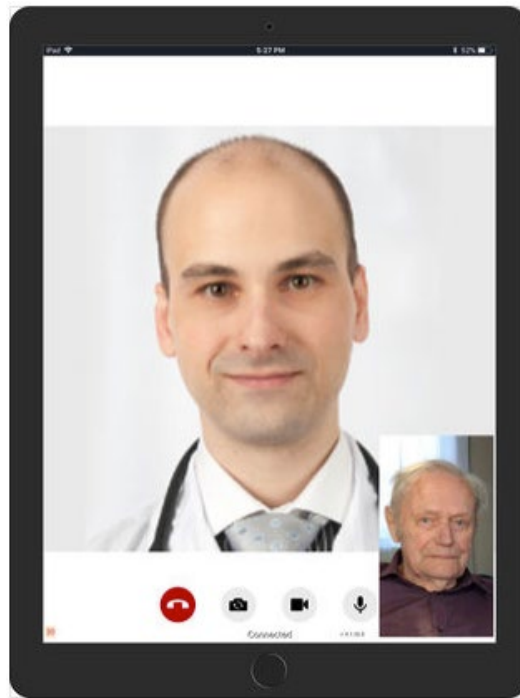
Track symptoms

- Monitor vitals
- Keep a symptom diary
- Set goals and monitor progress



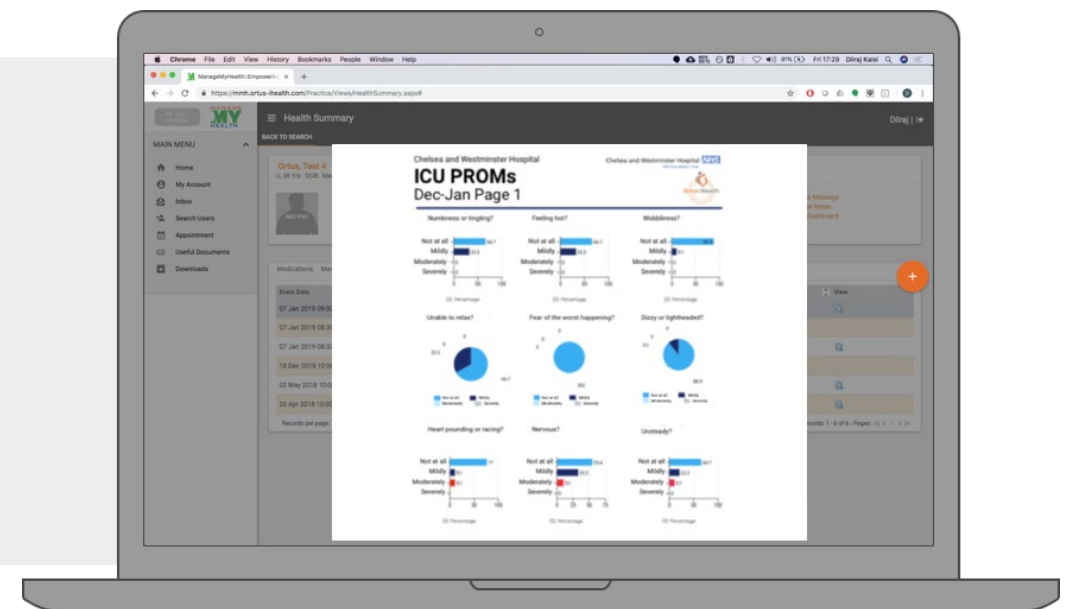
Our solution

For providers, a web portal



- Improved attendance and reduced DNAs
- Secure, effective video consultations

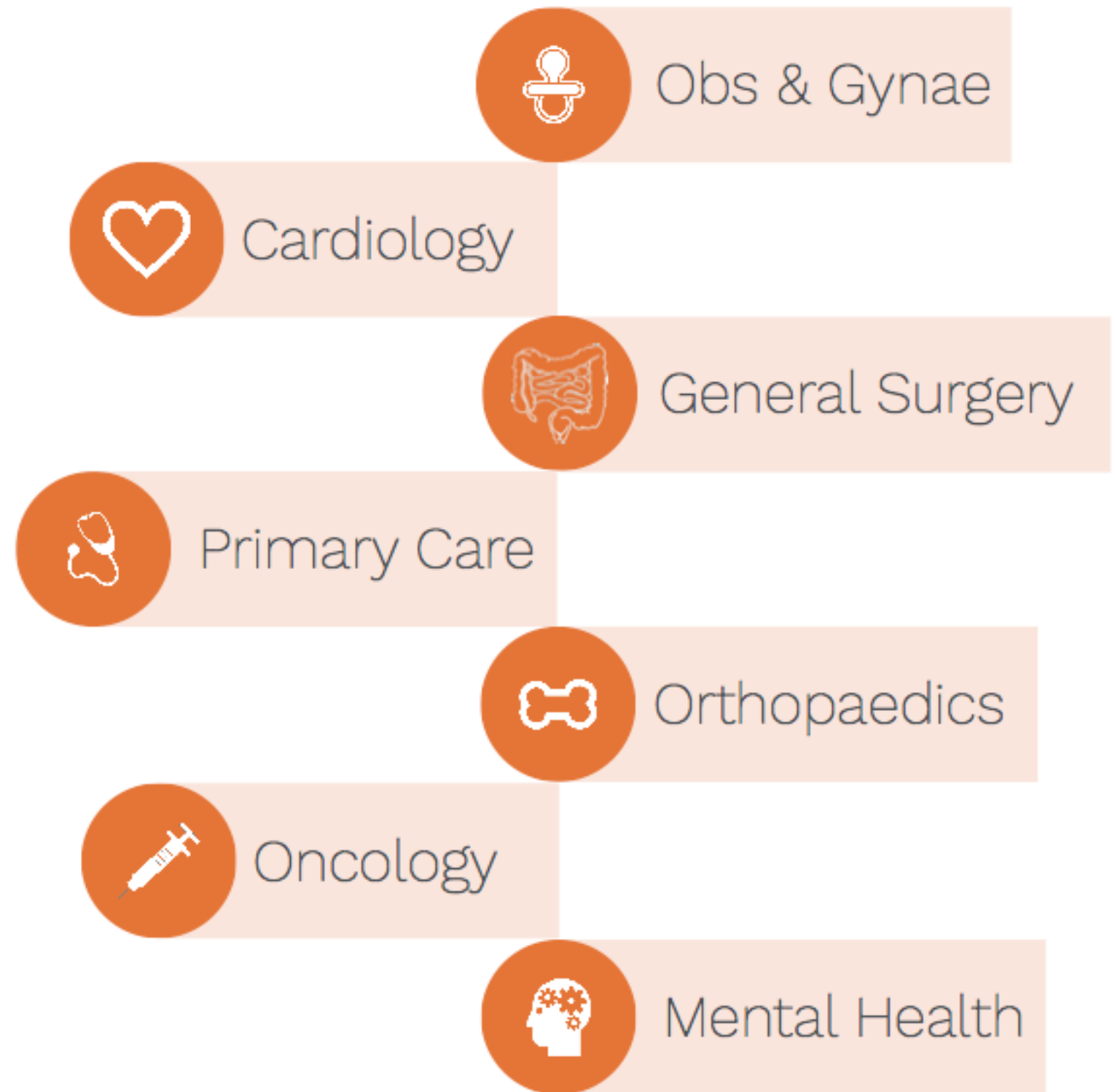
- Remotely monitor symptoms and vitals to tailor care
- Gather PROMs data and view live



Our solution



Digital pathway design



Where we are

2 successful pilots in Cardiology and Breast Cancer patients,
demonstrating...

Where we are

Increased efficiency

3% DNA rate, significantly less than Barts' average of 10-12%

10 additional patients seen per week due to extra capacity

0 adverse events

Where we are

Patient savings

- 80%** reported an important saving
- 33%** saved £10 or more
- 97%** saved >30 minutes

Where we are

Patient satisfaction

90% satisfied with the virtual clinic experience

100% found appointment reminders useful

83% valued access to clinic letters

Where we are

Scale up in 2019 with at least **12 clinical pathway changes** catering to **>3000 patient appointments** across a wide **variety of specialties** including Cardiology and Oncology

Where we are

Established

- Post atrial fibrillation ablation clinic with PROMs data
- Post acute myocardial infarction video clinics with remote pharmacy-led up-titration of medications
- Inherited arrhythmia clinic with questionnaire and ECG based follow-up

Where we are

Post acute myocardial infarction clinics

- Need to uptitrate prognostic medication after heart attacks
- Early review is beneficial
- Neither tend to happen due to lack of capacity

Where we are

Virtual acute myocardial infarction pathway

- Patient has heart attack
- Discharged home with app and advice to regularly input BP/HR
- 2 week and 4 week remote review of observations only and advice given through messaging facility in the app
- 8 week video review

Surely this is too long-winded and cumbersome?

Where we are

Virtual acute myocardial infarction pathway

- Virtual medications optimisation clinic - 8 patients in 30mins
- Video clinic with use of pre-filled questionnaires
 - Average 8mins from time of call to finishing admin
 - Average 8 patient clinic takes 70 minutes

Where we are

Delivering more efficient care in a personalised way

Medication

Due now, upcoming and missed medication section with the option to take or skip.



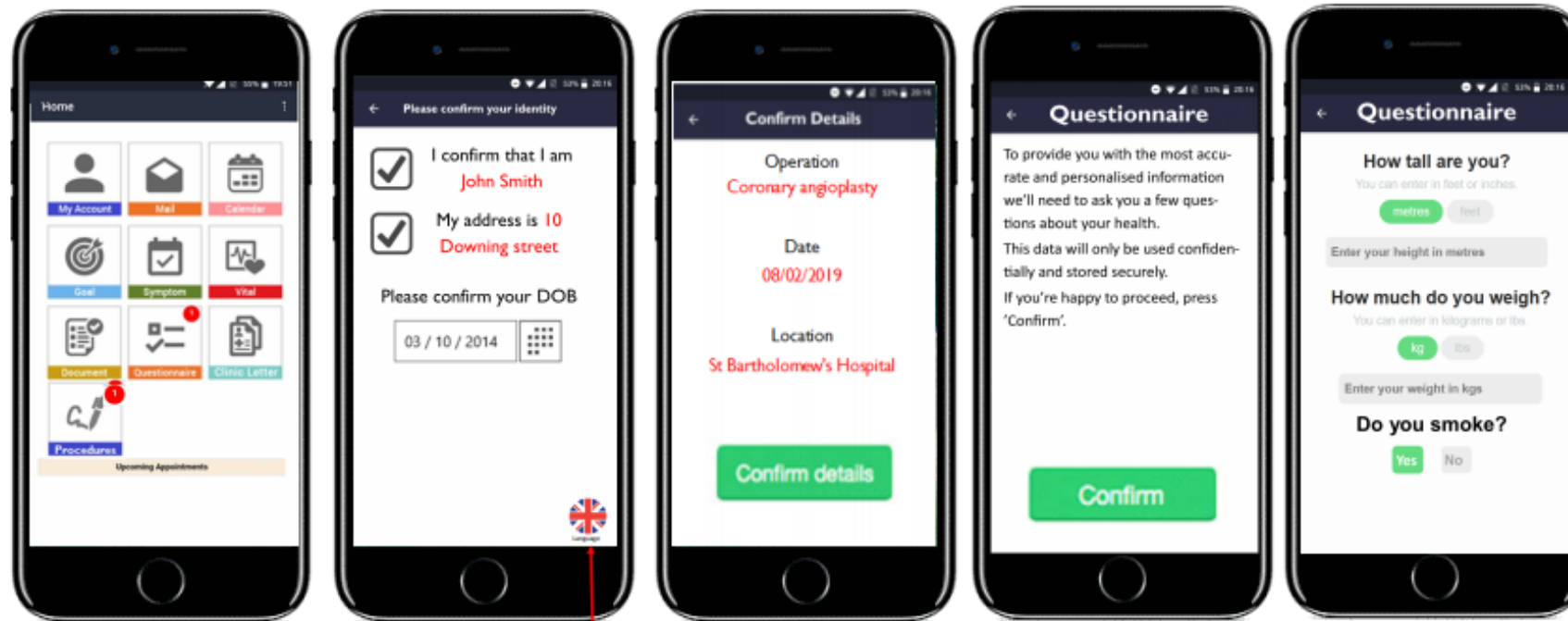
Add all the details for medication, doses, time to take, additional information.

Reports

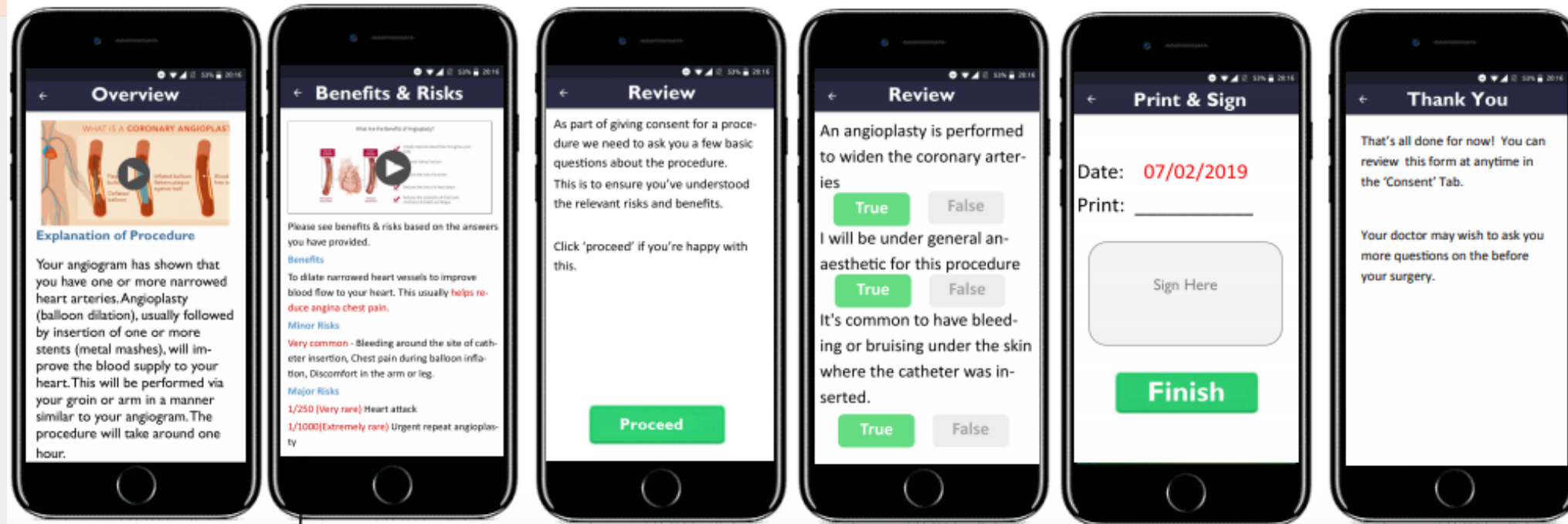
Reports section, with all the tabs in one page for convenience. All reports will be displayed in chronological order with an option to pin the most important reports at the top



Consent



Can change language



My Activity





BACK TO SEARCH

MAIN MENU

- Home
- My Account
- Inbox
- Search Users
- Appointment
- Add Patient
- Clinic
- Appointment Template
- Useful Documents
- Downloads

SET-UP MENU

Add Procedure

Procedure Details

Diagnosis * :
Procedure * :
Clinician * :
Date of Procedure 01/04/2019
Pathways AFB Ablation

Additional Information

Notes:

View Pathway

SAVE

CANCEL

May 09 2018

Humulin 20/80 Injection
(Cartridge) 100 U/mL 1.5
mL Qty: 5 x10

100 U/mL 1.5 mL Injection of
strength 100 U/mL 1.5
mL,frequency Daily for 1 Month(s)

Medtech Demo
Practice

Historic

Clinical
Notes

Send a Message
Clinical Notes
View Dashboard

More Info Edit Reminder





MANAGE
MY
HEALTH

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SET-UP MENU

Mr.Sushma_Pati_0....pdf

Pathways

Location

Age Range

Questionnaire

Clinicians

Gender

Questions

Show

Clear

From

To

Drinking enough fluids - 2 litres fluids?

Pie / Bar Chart



No Yes

Eating small frequent meals?

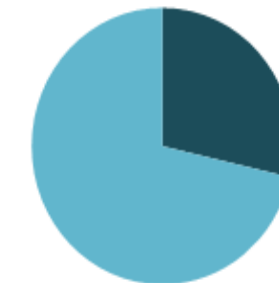
Pie / Bar Chart



No Yes

tingling/numbness hands/feet?

Pie / Bar Chart



No Yes

Excel

PDF

Where we are

Using our clinical expertise, we are digitally enhancing outpatient journeys to provide efficient, personalised care

- Reduce DNAs
- Increase capacity and efficiency
- Improve clinical outcomes

Lessons learned

- Requires **stepwise changes**
- Find **early adopters** and like-minded clinicians
- Embed into the **current need** to deliver video or virtual clinics
- **Establish the technology** then further pathway changes

Any questions?



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