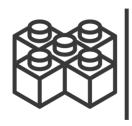
digitalhealth



Sharon Boundy

Director of transformation and digital, Frimley Health and Care ICB



NTEGRATED

Stage Sponsor:









A proactive approach to remote monitoring using population health

Connected Care -

Data driven, digitally enabled transformation



Population Health

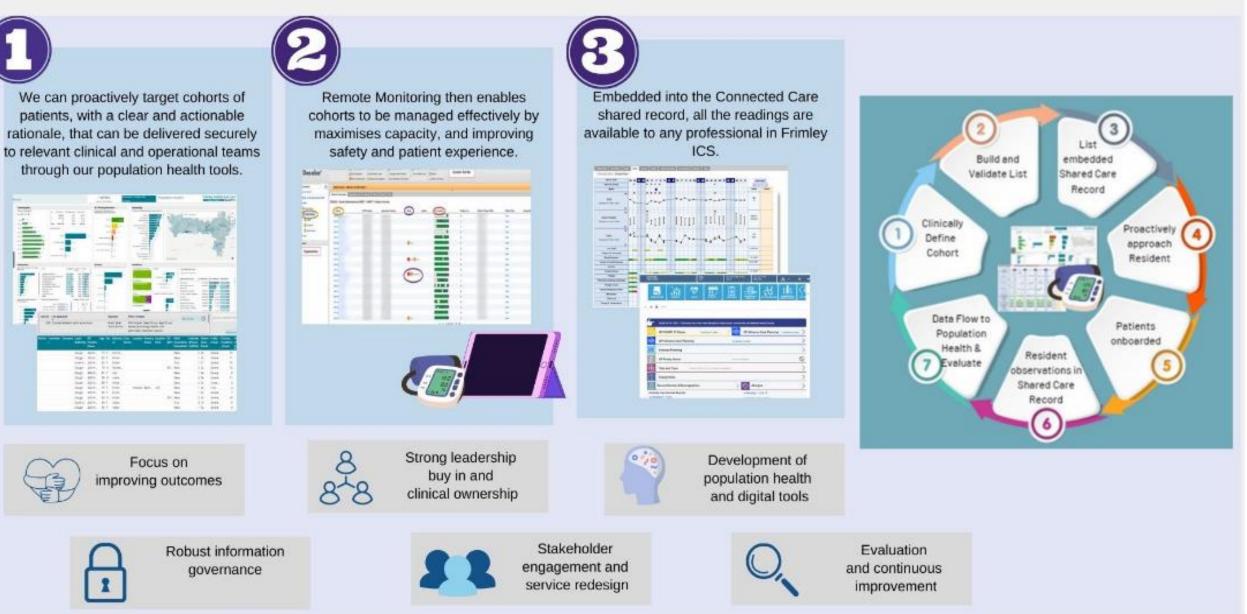
Insight and intelligence at population and individual level supporting integrated and proactive care and evaluate the impact of interventions



Underpinned by our objectives to integrate care around the resident, to move from reactive to proactive care and treatment and empowering our residents to better manage their own health and wellbeing

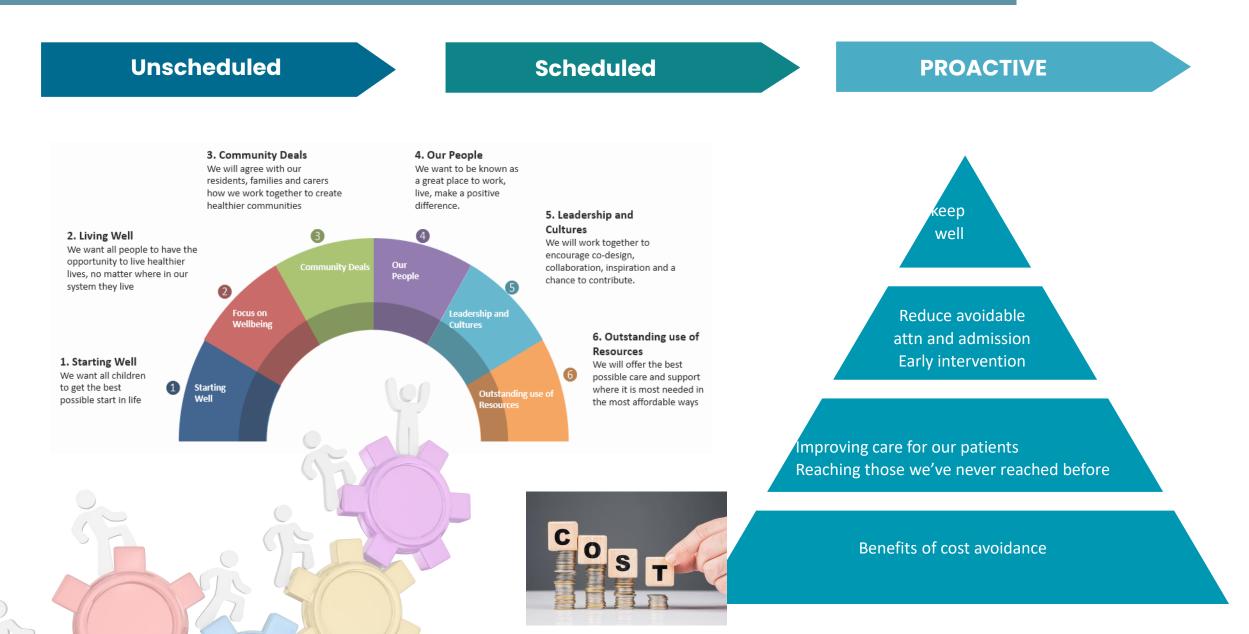
UTILISING DIGITAL TECHNOLOGY, ANALYTICS AND TRANSFORMATION





Whole System Change





Remote Monitoring: Current Status

Frimley Health and Care

• Programme is clinically-led & driven. Through clinical population health leads, clinical leaders are building clinical networks, driving innovation & transformation.

- Patients can be enrolled into multiple interventions & escalate and de-escalate across pathways. Thresholds can be set at patient level to support personalised care.
- Alerts managed through remote monitoring services & when indicated, escalated to primary care or urgent care services.

Proactive Frailty	Care Homes	Long Term Conditions
Use John Hopkins <u>Patient Need</u> <u>Groups</u> (PNG) to segment our population into cohorts.	Each care home receives clinical monitoring hubs which are a certified medical device.	Extend digital capability and delivery approach to support diabetes and heart failure patients.
 61 practices live with 7,000 patients actively monitored. Started in Nov '22 & rapid progression to support winter pressures. First area in the country to deploy PNG best practices. Selected ~60k high risk patients steered by the ICS Medical Director, supported by the ICS clinical reference group. 	 34 care homes live with 950 patients actively monitored. Started the programme to spot early deterioration. A clinical monitoring hub device is setup on each floor of the care home & digitises Sp02, respiration rate, blood pressure, pulse & body temperature. Baselines captured monthly with daily monitoring for a potentially deteriorating patient. 	 700 diabetic patients & 120 heart failure patients being actively monitored. Pilots for disengaged diabetes patients in areas of deprivation and newly diagnosed patients. Remote monitoring heart failure patients who are already on BHFT and FHFT caseloads. Alerts managed by Heart Failure teams.

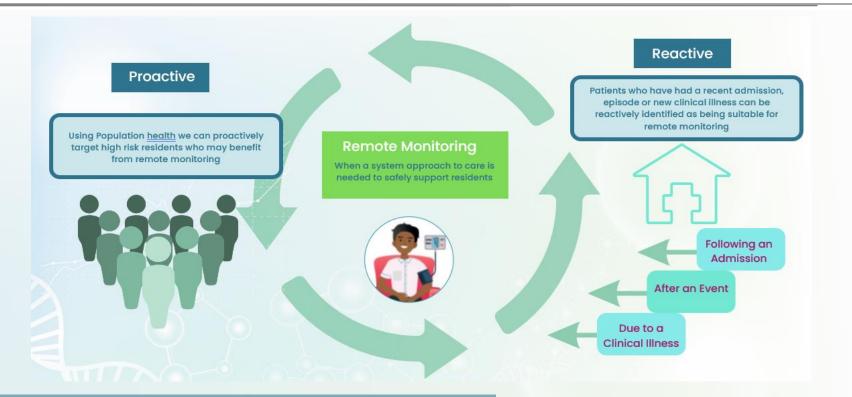
System Approach

Frimley Health and Care

Remote Monitoring supports our highest risk residents -

- **Proactively** by identifying them using Population Health
- Under the care of specialist teams, like Heart Failure or Diabetes
- As part of a care pathway, such as a Virtual Ward or Early Discharge Support
- At the point of contact, when the patient is deemed high risk and would benefit

Or, living in a Care Home



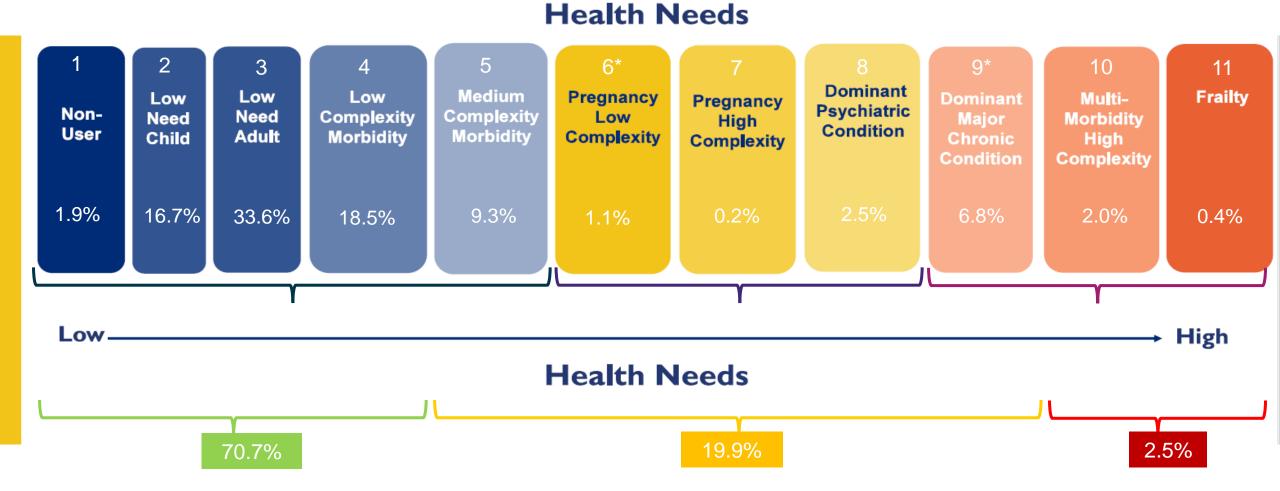
High

High Risk Standard package of care for Remote Monitoring Health Needs 1 2 3 4 5 Median Non-User 2 3 4 5 Median Complexity 2 Median Complexity 2 Median Morbidity 2 Median Complexity 2 Me

High Risk Acute Increase frequency to support acute

High Risk +

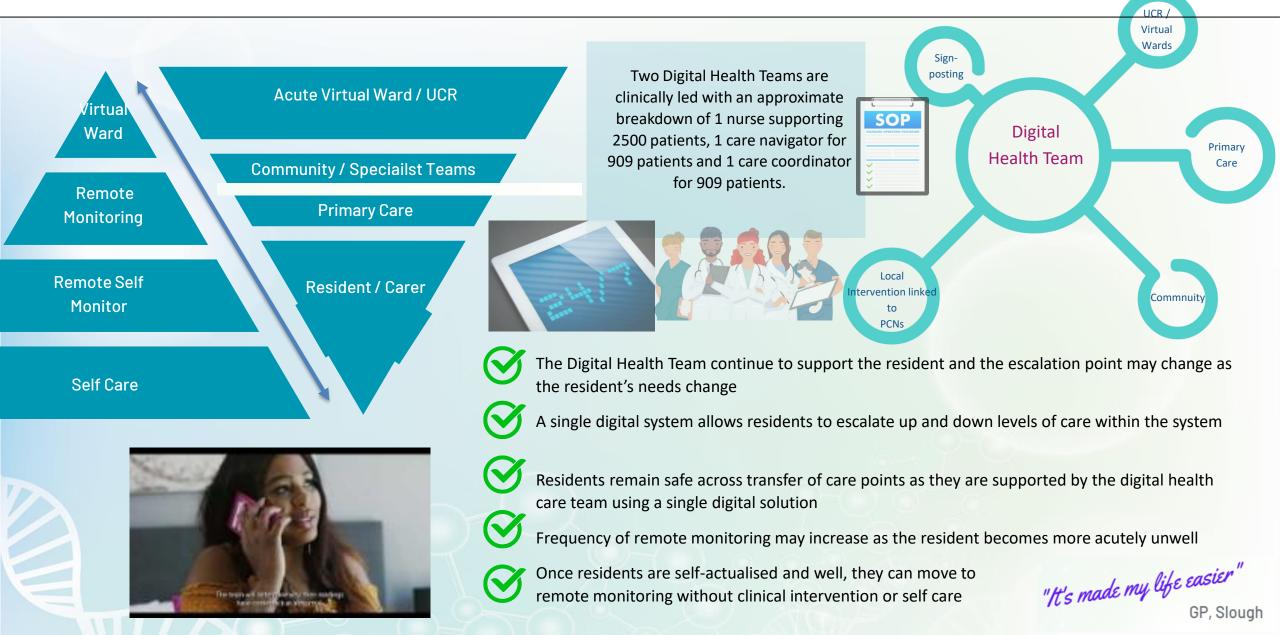




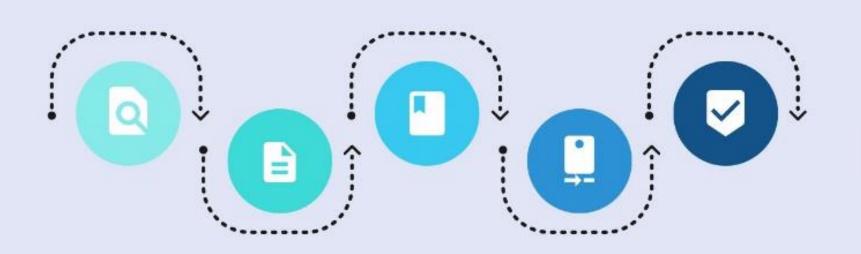
ASCOT • BRACKNELL • FARNHAM • MAIDENHEAD • NORTH EAST HAMPSHIRE • SLOUGH • SURREY HEATH • WINDSOR

Clinical Model

Frimley Health and Care



PROCESS



1 - The Cohort

2 - Introduction

Connected Care Population Health identifies cohort of residents who will benefit most (High Risk PNG Groups 10 and 11)

Residents are sent an introductory text from their practice recommending they take part in the service

3 - Onboarding

The Digital Health Team contact residents by phone and explain the service

Thermometer

4 - Equipment

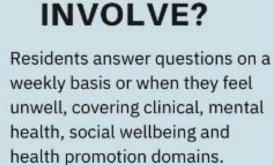
Residents are provided with a pulse oximeter, thermometer, blood pressure monitor and smart device if required

5 - Monitoring

The Digital Health Team review the responses that residents send and make sure appropriate action is taken

Approximately 2000 alerts flag

team deal with around 98% of these.



WHAT DOES IT

ONNECTED CARE



The questions will trigger RAGrated responses which in the main can be dealt with by the Digital Health Team, a nurse led clinical team.



Examples of Equipment needed:

Pulse Oximeter

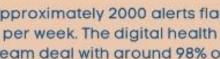






Smart Device











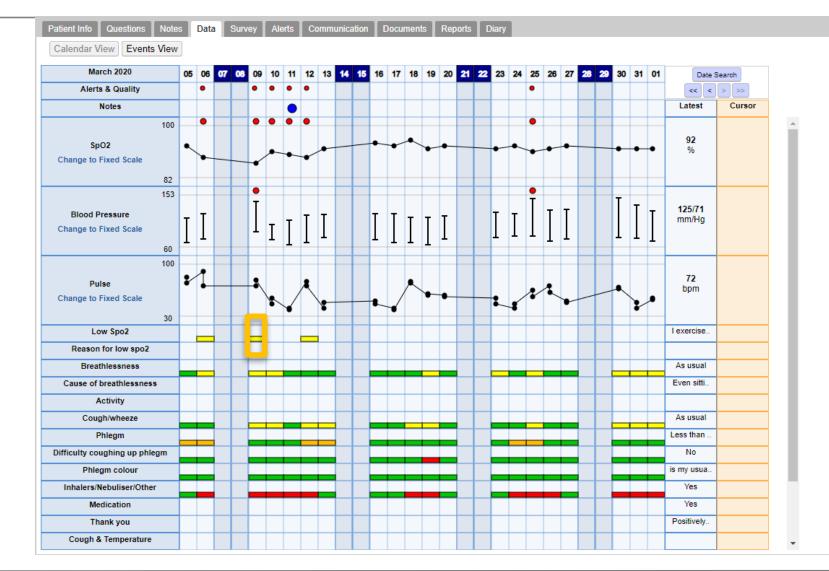


Clinician View



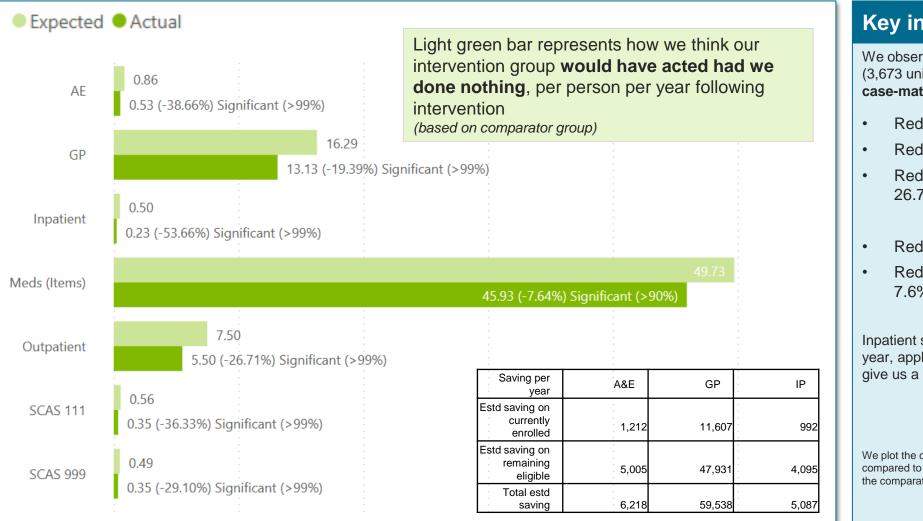
Double clicking on a date column will highlight it and present a detailed summary of information input on that date.

Red and amber markers indicates when alerts have been triggered and a threshold breached.





Frimley Health and Care



Key insights

We observed the following service outcomes in our (3,673 unique) enrolled patients **compared to our case-matched comparator group** (n = 14,607):

- Reduced A&E attendance by 38.6%
- Reduced Admissions by 53.7%
- Reduced Outpatient appointments by 26.7%
- Reduced GP contacts by 19.4%
- Reduced volume of prescriptions issued by 7.6%

Inpatient stays have fallen by 0.27 per person per year, applying this to the total eligible population would give us a reduction of 5,087 admissions per year

We plot the change in activity before and after intervention, this is compared to their expected activity if they exhibited the same trend as the comparator group.



Currently deceased patients excluded

Remote Monitoring – High Risk summary

Definitions	efinitions						
Intervention group	Patients enrolled onto Frimley Remote Monitoring – High Risk Care Package between 1 st December 2022 and 30 th September 2023	3,673 unique patients					
Remaining eligible cohort	Patients aged 30+, with higher needs (as defined by John Hopkin's Patient Need Groups), who currently meet enrolment criteria and are registered in a Frimley practice	15,168 unique patients					

Deprivation distribution					Ethnicity distribution					
Group Deprivation Pentile	Control # Population	Intervention % of Population # Population % of Population			Group Ethnicity L1	Control # Population	Intervention % of Population # Population		% of Population	
(Blank)	44	0.3%	9	0.2%		Asian or Asian British	1,504	9.9%	606	16.5%
1	352	2.3%	111	3.0%	Shape of plum bars	Black or Black British	234	1.5%	66	1.8%
2	2,161	14.2%	656	17.9%	indicates accessibility	Insufficient data	191	1.3%	29	0.8%
3	2,501	16.5%	613	16.7%	of service, comparing	Mixed	105	0.7%	27	0.7%
4	2,863	18.9%	683	18.6%	intervention group against remaining eligible cohort	Other Ethnic Groups	638	4.2%	187	5.1%
5	7,247	47.8%	1,601	43.6%		White	12,496	82.4%	2,758	75.1%
Total	15,168	100.0%	3,673	100.0%		Total	15,168	100.0%	3,673	100.0%

Currently deceased patients excluded



Testimonials





- · The pandemic has resulted in an immense backlog with patients with patients not optimised for their long-term conditions
- · Primary care are under extreme pressure from urgent day to day issues + playing catch up on services such as screening. immunisations and helping with Covid vaccinations

Dr Lalitha lyer Chief Medical Officer Frimley ICS

A key service to address pressures and benefit people and their care professionals is remote monitoring and management

- The ICS has a mature integrated record and population health management tool
- A remote monitoring model was first developed during the Covid pandemic with community providers
- The same principles are now being applied for the remote monitoring of long-term conditions and care homes.

Our providers in the community have the skills and capacity to monitor those indivduals we decide need to be monitored for their long-term conditions.



John Daniels COO East Berkshire Primary Care

Lead provider **Diabetes Workstream** and Out of Hours services

On our remote monitoring programme we currently have:

- 25 dedicated staff members
- Who can monitor up to 3,000 patients
- And have serviced +20,000 patients without incident

Remote monitoring offers some great benefits for our system as a whole. The ability to:

- React quickly to deteriorating patients
- Monitor and get a good baseline
- Reduce ED appointments
- Reduce GP appointments required for monitoring

The list goes on. The benefits for our system and our patients are definitely there to be seen.



Value of using the remote monitoring approach are:

- Data is available in one place on a digital record
- Alerts and responses are getting managed by a centralised team
- Reducing pressure on practices
- Providing a safe and more efficient way of monitoring patients

Within months of deploying in Care Homes we're experiencing tangible benefits:

- · A drop in care home contact with us and practices
- · GPs only engaged when warranted
- Fewer alerts getting generated as timely interventions are making residents more stable
- Admissions are being avoided

You can look after more patients safer using less resources.



Dr Nithva Nanda GP **Clinical Director** SPINE PCN Diabetes + CVD lead

Frimley ICS



Kailash Khanal **Registered Manager Beech House Care** Home

Looking after Dementia, complex and frail patients



- · Used monitoring system to raise an alert to the monitoring hub
- · Within 30 mins we got a call from the clinician

Remote management has assumed greater significance now because:

- · Pandemic reduced footfall to practices
- · Increased need for remote follow ups and interventions for the frail and housebound and to address the backlogs in primary and secondary care

Operational Value

- The platform generates alerts when readings go beyond defined parameters
- A centralised clinical team refers patients to primary care for intervention when appropriate

Benefits for professionals and patients:

- · Enabling remote management of more patients by the practice
- · Earlier interventions reduce hospital admissions and medical complications

Case study

- Resident had advanced dementia and was typically confused
- Declined overnight
- Appeared more confused, mobility reduced, fluid intake and urinary output were low

Before:

- · Call the practice, speak to admin to request a call back from the doctor
- Wait for them to call could be hours and patient continuing to deteriorate

Now:

Operational value:

- · Easy access to data
- Time efficiencies reduce time to getting clinical quidance
- Captures patients daily status
- · Analysing this over time informs clinical reviews

Benefits for our patients:

- Identifies deterioration sooner
- Promotes prompt treatment at home
- Avoids unnecessary hospitalisation

