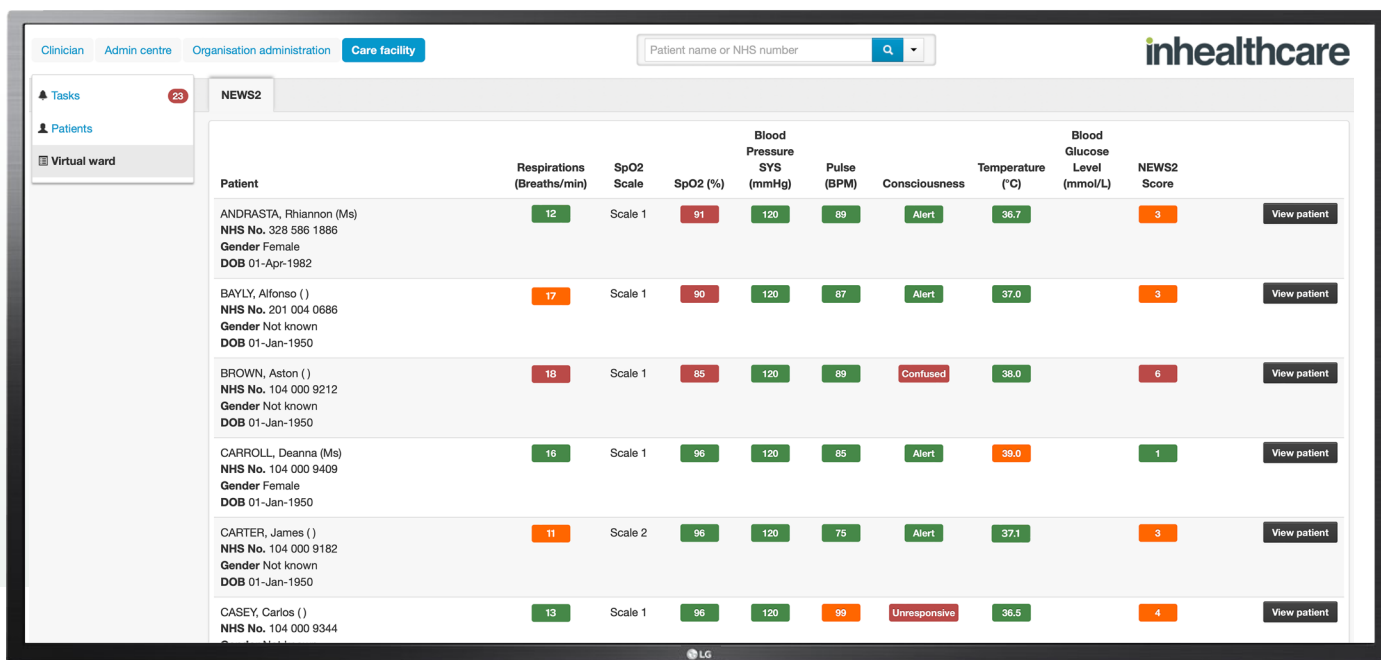


# Respiratory Virtual Wards

Reducing hospital admissions and enabling safe and timely hospital discharge

## Background

Hospitals across the UK are under pressure from increasing numbers of admissions year on year. The backlog of people awaiting operations continues to grow. Virtual Wards create capacity in the system, by caring for patients at home, and not in hospitals.



The screenshot shows the inhealthcare Virtual Ward interface. It features a top navigation bar with tabs for Clinician, Admin centre, Organisation administration, and Care facility. A search bar for 'Patient name or NHS number' is present. On the left, there are links for Tasks (23), Patients, and Virtual ward. The main area displays a table of patients with their vital signs and NEWS2 scores.

Patient	Respirations (Breaths/min)	SpO2 Scale	SpO2 (%)	Blood Pressure SYS (mmHg)	Pulse (BPM)	Consciousness	Temperature (°C)	Blood Glucose Level (mmol/L)	NEWS2 Score	View patient
ANDRASTA, Rhiannon (Ms) NHS No. 328 586 1886 Gender Female DOB 01-Apr-1982	12	Scale 1	91	120	89	Alert	36.7		3	View patient
BAYLY, Alfonso ( ) NHS No. 201 004 0686 Gender Not known DOB 01-Jan-1950	17	Scale 1	90	120	87	Alert	37.0		3	View patient
BROWN, Aston ( ) NHS No. 104 000 9212 Gender Not known DOB 01-Jan-1950	18	Scale 1	85	120	89	Confused	38.0		6	View patient
CARROLL, Deanna (Ms) NHS No. 104 000 9409 Gender Female DOB 01-Jan-1950	16	Scale 1	96	120	85	Alert	39.0		1	View patient
CARTER, James ( ) NHS No. 104 000 9182 Gender Not known DOB 01-Jan-1950	11	Scale 2	96	120	75	Alert	37.1		3	View patient
CASEY, Carlos ( ) NHS No. 104 000 9344 Gender Not known DOB 01-Jan-1950	13	Scale 1	96	120	99	Unresponsive	36.5		4	View patient

## Solution

Our technology-enabled respiratory virtual ward monitors patients in their own home through our digital health platform. Patients or carers measure agreed vital signs and enter data using a communication method that suits them, including:



Email



Bluetooth devices



SMS



Automated phone call



Online

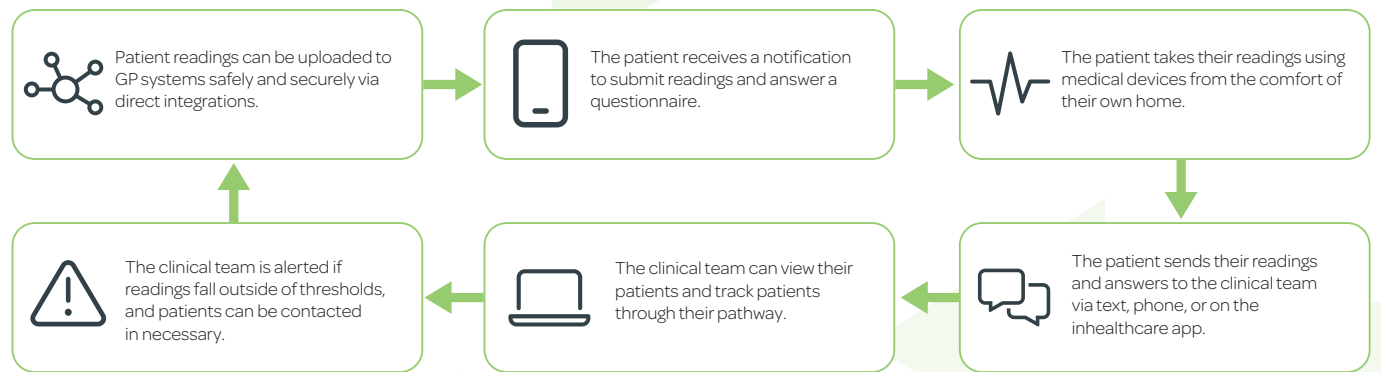


Smartphone app

Readings are presented to the clinical team on a patient caseload dashboard and the platform calculates and presents a NEWS2 score. The clinician is alerted if readings fall outside agreed parameters.

The Inhealthcare platform integrates into SystmOne and EMIS Web.

## How does the service work?



Patients can input a range of health observations, including respiratory rate, oxygen saturation, systolic blood pressure, diastolic blood pressure, pulse rate, level of consciousness, new confusion and temperature.

### The observations collected include:

- ✓ Respiration rate (per minute).
- ✓ Are you on any supplementary oxygen?
- ✓ Blood oxygen (%).
- ✓ Systolic BP.
- ✓ Diastolic BP.
- ✓ Heart rate (bpm).
- ✓ Level of consciousness.
- ✓ Temperature (°C).

### The care team at anytime can:

- Create an ad-hoc note.
- Schedule a video conference.
- Change the patient contact method.
- Change the patient conditions.
- Change the patient monitoring settings (including specific non-responder count).
- Send an ad-hoc message to the patient (SMS, email).
- Submit unscheduled patient observations.
- Discharge the patient with full summary.

## Benefits of service

- Enhances the safety and speed of the service by ensuring healthcare professionals are able to access relevant information quickly and effectively.
- Supports better decision-making for workflow and capacity management across primary and urgent care.
- Enables vital patient data to be seen across all settings, making it easier and quicker for healthcare teams and services to work together.
- Helps to identify when a patient may be deteriorating and to prioritise patients who need urgent treatment.
- Enables timely hospital discharge, freeing up bed capacity.
- Supports step-up/step-down models of care.

