wellbeing sensors

at the heart of safer care

NHS North Tyneside Clinical Commissioning Group

# North Tyneside
2024

**Princes Court is a 74 bed Intermediate care facility: residential, rehab and nursing. The aim is to provide care for individuals who can then return to their home.**

| 67% | 100% | 1 min | 100% | 42 | 12.9 |
|---|---|---|---|---|---|
| Reduction in falls | of falls detected | Typical response time | Reduction in 1:1 | Average welfare checks - per night | Average bed exits attended - per night |

## Reduced falls

15 Falls > 5 Falls

"There was an incident where the family litigated through the Courts based on neglect, as it was presumed that there was inadequate care. We invested in this technology as it had the capability to record events that are time stamped and provides evidence of the time of a fall and how quickly staff had reacted." - **Sylvia Dixon**, Care Home Manager

"

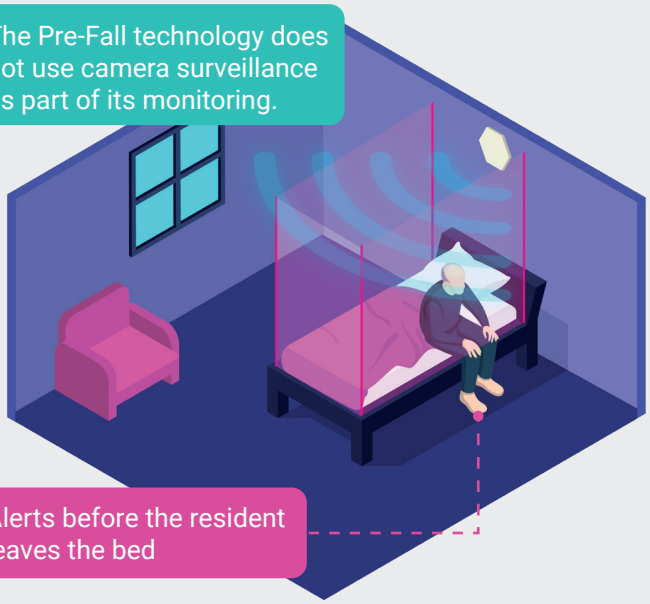
River Fajardo is the Advanced Clinician at the Intermediate Care site. River also led a research project with Northumbria University 'Service Improvement Dissertation' of which he used our technology implementation as a key area for improving care, whilst reducing falls.

"We now have eyes in the back of our head! The system is incredible; the statistics and outcomes are extremely clear and evident. This has been such a brilliant help for staff and reassurance for family members."

**River Fajardo**
Advanced Clinician Practitioner

## How it works

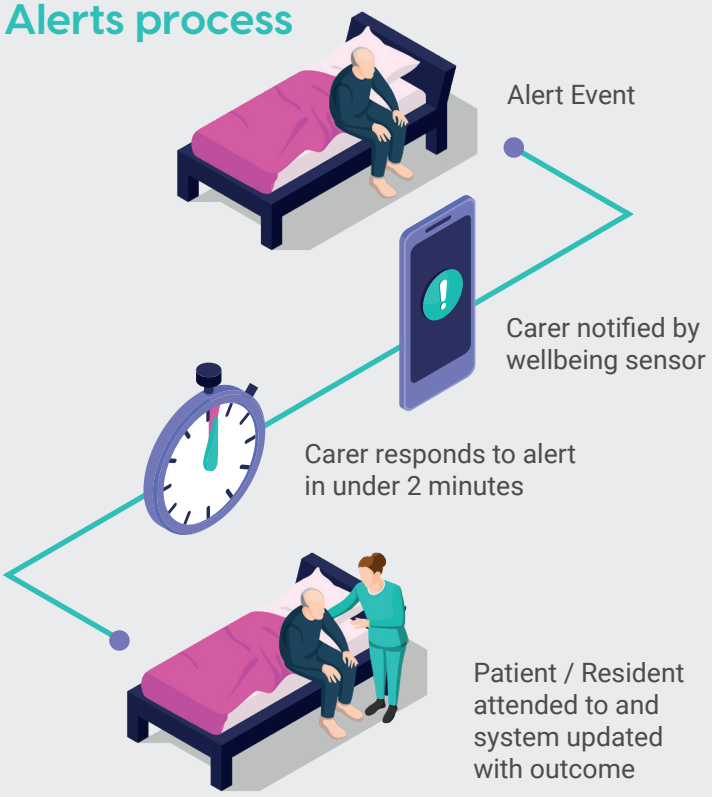
The Pre-Fall technology does not use camera surveillance as part of its monitoring.

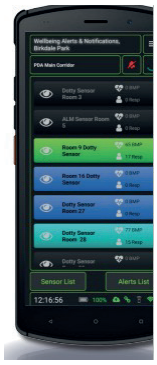


Alerts before the resident leaves the bed

Acoustic · Heart Rate · Microwave · Respiratory Rate · Thermographic

## Alerts process







## Nightly Checks

“I received an alert to say there was a fall whilst I was in another resident’s room. I immediately rushed to the room to find the resident on the floor. I had just done the nightly 3am check and would not have gone back to that room for several hours”

**Carer, Akari Care**

## 100% Falls Detection

“The system alerted us to 5 falls across an 8-month period. There were zero falls missed in any of the rooms.”

| | JAN | FEB | MARCH | APRIL | MAY | JUNE | JULY | AUG | SEPT |
|---|---|---|---|---|---|---|---|---|---|
| 30-RQ | | | 25/03/22 14:30 | | | | | | |
| 26-RQ | | | | | | 12/06/22 03:00 | | | |
| 32-RQ1 | | | | 24/04/22 12:40 | | | | | |
| 40-RQ1 | | | | | | | 06/07/22 17:15 | | |
| 40-RQ2 | | | | | | | | 22/08/22 06:20 | |
| 32-RQ2 | | | | | | | | | 13/09/22 03:45 |
| 40-RQ3 | | | | | | | | | 22/09/22 17:00 |
| Legend: | ALM - not alarmed | NO documentation from staff | Directed by ALM | SIX rooms that have ALM at RQ 22, 26, 30, 32, 39, 40 | | | | | |

The average cost NHS hip fracture is

**£13,000**

including rehabilitation care

## Falls Reduction

“Resident in room 22 had seven falls from April 2023 – August 2023, including one which hospitalized her with a hip fracture. Since the sensor was installed in August, she’s had zero falls”

“When comparing the data to the previous year (same 8 months) in 2022, we saw 15 falls across that period, compared to the 5 with the technology installed”

## Improved Response Times

“A gentleman was lying in bed when the care staff received an alert for breathing and heart rate issues. The nurse attended the resident who was indeed having breathing issues. The paramedic on site assessed the gentleman which resulted with him being admitted to hospital. The staff said “an incredible system which has meant we attended a resident in rapid time and therefore improved the speed of response and care””

“The system allowed us to react immediately to alerts – all falls recorded a response time under 1 min for staff”

## White paper

This project has a white paper available which was completed by an Independent Clinician. This paper documents the evidence, outcomes and data collected by the provider’s Clinical Governance Lead.

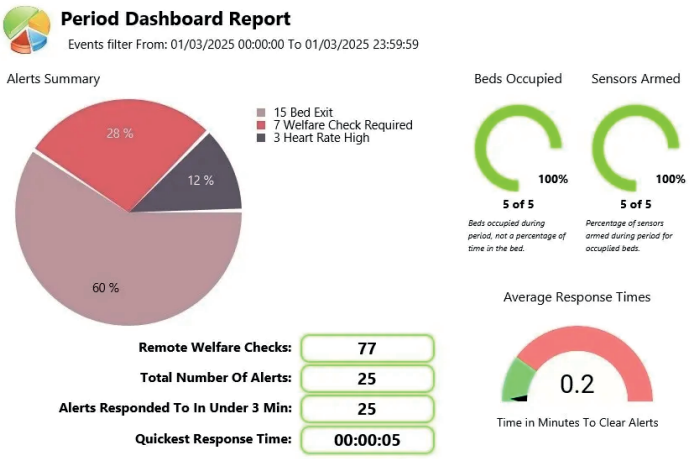
**Please contact us for a copy.**

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**Visit our website here.**




## Challenging Behaviour

“The sensor was used for 1-6 hour and 6–12 hour periods, daily. Those exposed to 12 hours showed significant changes in positive behaviour and zero noticeable negative changes occurred during this period”

## Baseline Stats

“We took away all of the technology for 3 weeks to see if the stats and outcomes would change. The falls, challenging behaviour and nutrition/hydration all regressed back to the previous baseline. This is when we truly knew the impact” **River Fajardo**

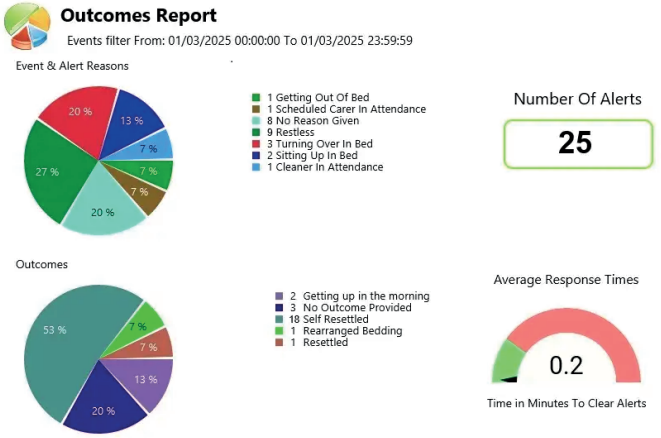


## A Tailored System For Your Service Users

No two people have exactly the same health issues. With its own person-centred approach, the Wellbeing Sensors can adapt and support individuals’ needs. This means that you can still deliver exceptional care while customising the system according to every service user’s needs.

## Nutrition and Hydration

“83% of service users showed gradual increase in nutrition and hydration, comparing the data across a 9 month period in the same year. This was due to improved sleep cycle and staff attending bed exits quicker”




## A complete 360 Solution

The wellbeing sensors deliver a full 360-degree solution. With the goal of ensuring that the best care is provided, around-the-clock, and in a way that keeps service users safe whilst they maintain their privacy & dignity.

In addition to delivering proactive service user protection, the back-office reporting suite is able to produce expansive reports (real time data and historic data), highlighting the strengths and potential weaknesses of current practices and identifying areas for improvement. This allows for more informed decision-making and smarter targeted solutions going forward.