Reducing falls
in mental health hospitals
22-month clinical study findings

Coventry and Warwickshire Partnership NHS Trust
with support from Oxehealth

Coventry and Warwickshire Partnership NHS Trust have been working with Oxehealth's Oxevision technology to reduce falls and associated injuries in their 24-bed inpatient dementia facility, Manor Hospital.
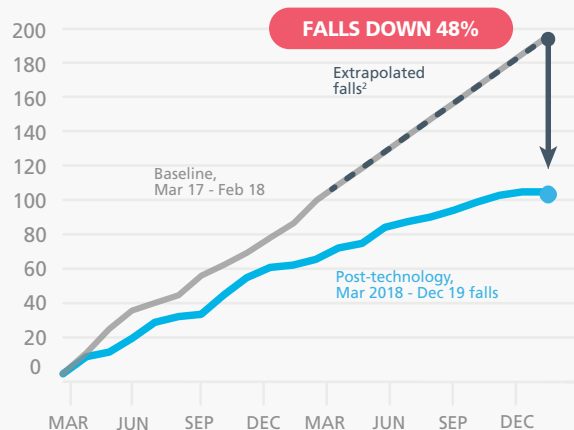
At the facility, 12 of the 24 bedrooms are equipped with the technology.

Patients at Manor Hospital are at a high risk of falling with half of falls occurring in the bedroom. Injuries from falls can be life-changing.

In March 2019, the initial 8-month results were published in a clinical study entitled "Safer dementia care in Mental Health hospitals".

In early 2020, the Trust evaluated the 22-month falls incident data. The results were:

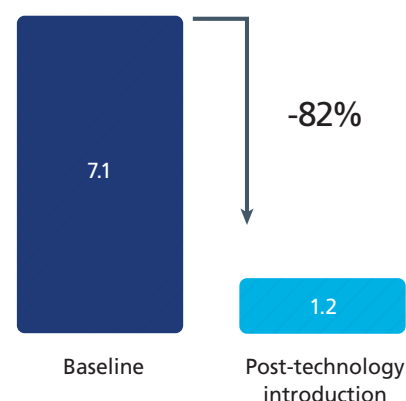**Accumulative bedroom falls at night**

FALLS DOWN 48%

Extrapolated falls[2]

Baseline, Mar 17 - Feb 18

Post-technology, Mar 2018 - Dec 19 falls

MAR JUN SEP DEC MAR JUN SEP DEC

48% reduction in bedroom falls at night

■ Bedroom falls at night have reduced by 48%.[1]

■ For Manor Hospital, this has saved 94 falls during the period.

82% reduction in harmful falls

■ Moderate harm falls have decreased by 82%, from 7 to 1 per year[4].

■ A moderate harm fall is a fall that resulted in significant but not permanent harm, a e.g. a fracture.

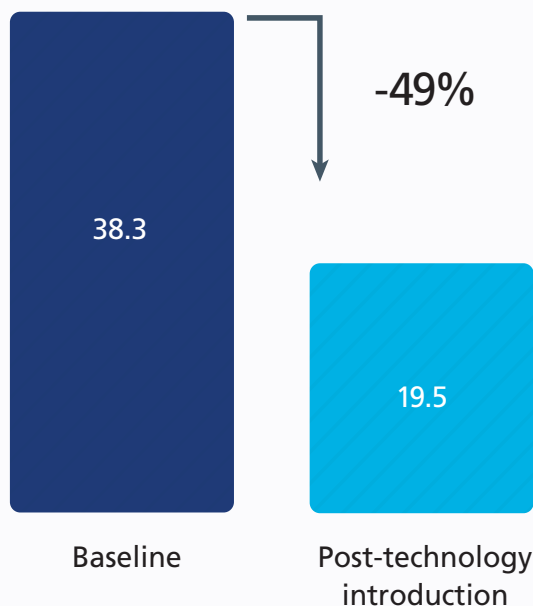■ Staff are able to get to a patient's bedroom faster and intervene earlier.

Moderate severity bedroom falls at night

7.1

-82%

1.2

Baseline

Post-technology introduction

49% reduction in emergency service
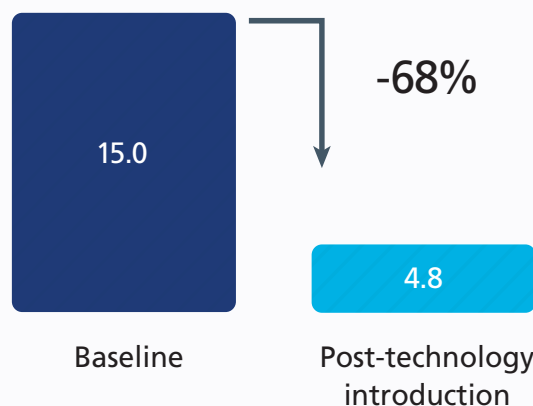
68% reduction in A&E visits

The reduction in falls and associated injuries has reduced the need for emergency services to visit the hospital (ambulances and paramedics) by 49% and reduced the need for patients to visit A&E by 68%.

Annual emergency services visits

38.3 — Baseline

-49%

19.5 — Post-technology introduction

Annual A&E visits

15.0 — Baseline

-68%

4.8 — Post-technology introduction

FULL REPORT

Safer dementia care in Mental Health hospitals

Coventry and Warwickshire Partnership NHS Trust published the results of an 8-month clinical study on the impact of using Oxevision on their dementia wards.

Read the updated summary: **https://www.covwarkpt.nhs.uk/our-news/oxehealth-announce-new-data-demonstrating-48-reduction-in-falls-1873**

For full details of the clinical outcomes, including staff and patient family member interviews, operational benefits and financial implications, you can read the full report, Safer dementia care in Mental Health hospitals, here: **https://oxe.health/cwpt**

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[1] CWPT Falls analysis, March 2017 to December 2019

[2] Accumulative projected falls are calculated using the monthly average bedroom falls at night prior to the implementation of Oxevision.

[3] Cohort study: falls (in bedrooms, at night) incident data was collected over a 22-month period between March 2018 (go-live) and December 2019. This data was compared to a 12-month baseline between March 2017 to February 2018. The initial 8-months results were compared like-for-like to an 8-month baseline to account for seasonal variation. With more data available, all data was analysed leading to revised baseline period of 12 months compared to the 22-month outcomes data. All figures are adjusted to 100% occupancy to account for occupancy variation during the study period. Oxevision is installed in 12 bedrooms (6 male, 6 female) of the 24-bed facility and provides staff with early warning alerts to patients getting out of bed, enables staff to witness unwitnessed falls and take contactless medical grade breathing and pulse rate readings. There is no device connected to the patient, and the technology works even in total darkness.

[4] Moderate harm: A fall that resulted in a moderate increase in treatment, possible surgical intervention, cancelling of treatment, or transfer to another area, and which caused significant but not permanent harm, to one or more patients.