



**West London**  
NHS Foundation Trust

**STORIES FROM THE WARD**

# PAUL

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**FORENSIC PSYCHIATRY**

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Spotting infection through behaviour patterns

As told by Dr Jessica Cross<sup>1</sup>

oxehealth

Paul<sup>2</sup> is a young man with a diagnosis of schizophrenia. Paul has been in mental health services for a substantial period of time due to his complex mental health problems and is treatment-resistant.

Jessica<sup>1</sup> and her team care for Paul in a bedroom equipped with Oxevision. He regularly isolates himself in his bedroom, and it is difficult for Jessica to get Paul out of his room.



**Paul finds it difficult to communicate** how he is feeling, and if he needs help. His response is often limited to 'I feel unwell', and he attributes physical symptoms to side effects of his medications and not to other physical or mental health problems he may be having.

Recently, we introduced reviewing Oxehealth's Activity Reports into our team meetings. Whilst reviewing Paul's Activity Report, **we noticed that he had been into his bathroom over 30 times overnight.** When we cross-checked our observation sheets, **only a handful of these had been observed** due to the intermittent nature of checks.

**Dr Jessica Cross, Clinical Team Leader**

Jessica and her team use Oxevision's Activity Report in their clinical team meetings to support their care decisions for Paul.

The Activity Report provides staff with 24/7 information of Paul's activity and behaviour in his bedroom, including time in bed, the number of bathroom visits and the number of room entries by staff.

From the number of times he visited his bathroom, we suspected that **Paul had a urinary tract infection**. We collected a urine sample for testing, which came back positive, **so we started treatment immediately**.

Paul wouldn't have been able to communicate his symptoms, and infection would have been **difficult to diagnose**. Without the system, **his infection could have gone unnoticed** for much longer.

Having the objective data from the system was brilliant because **we quickly identified a change in his behaviour**, and we started treatment for his infection much sooner than we would have.

**Dr Jessica Cross, Clinical Team Leader**

<sup>1</sup>A pseudonym has been used to maintain staff anonymity

<sup>2</sup>A pseudonym has been used to maintain patient anonymity

## ABOUT OXEHEALTH

Oxehealth supports clinicians to improve patient experience in inpatient services by helping them to deliver safer, higher quality, and more efficient care.

Our contact-free vision-based patient monitoring platform, Oxevision, uses an optical sensor (an infrared camera housed in a secure unit on the wall). With Oxevision's Vital Signs module, staff can confirm a patient is safe through a short, 15 second, visual check where they can take remote spot-check measurements of a patient's vital signs entirely contact-free. Oxevision can also notify staff of activity that may indicate a patient needs help or assistance.

Oxehealth has won several HSJ Partner Awards and the HSJ Patient Safety Award for "Best HealthTech Solution" and Regional Parliamentary "The Future NHS" Award. Oxevision has been highlighted as an example of outstanding practice by the CQC<sup>1</sup>.

### FOOTNOTES

Oxehealth Vitals Signs module is cleared as a class IIa medical device in Europe and a class II medical device in the USA. It is intended for non-invasive spot measurements of pulse rate and estimated breathing rate (chest wall movements). It is a fixed-installed device for use within single occupancy rooms within hospitals, general care, and secured environments where a framework exists which mandates period checks by a trained professional to ensure subject safety. Federal law (U.S.) restricts this device to sale by or on the order of a licensed healthcare practitioner. See Instructions for Use for intended use, contraindications, warnings, cautions, usage directions and maintenance.

All other features within Oxevision, including the activity detection, fall risk, activity tracker and sleep products only track activity and do not have a medical purpose or functionality. They are not patient monitors or vital signs monitors. They cannot be used to make a medical or clinical decision.

<sup>1</sup>See <https://oxe.health/cqc-cwpt>