NHS
Coventry and Warwickshire Partnership
NHS Foundation Trust

STORIES FROM THE WARD

EDWARD

PICU

Tracking trends in vital signs – COVID-19

As told by Dr Faith Ndebele

oxehealth

Edward[1] was admitted onto the PICU on 27th April[2]. Four days later, Edward had a fever and reported feeling unwell. Dr Faith Ndebele and her team used Oxevision to take measurements of Edward's pulse and breathing rates whilst he was in his bedroom.

"We were concerned for Edward because he was **experiencing COVID-19 symptoms**. When his temperature spiked, we ran blood tests and a COVID-19 test and continued to regularly measure Edward's pulse and breathing rate using the system. By lunchtime, **his MEWS (Modified Early Warning Score) was high enough that we had to transfer him to A&E** to be treated, before his test results came back.

Dr Faith Ndebele, Consultant Psychiatrist

Edward returned to the PICU later that evening. Dr Faith Ndebele and her team continued to use Oxevision to frequently measure Edward's pulse and breathing rates without entering his bedroom and tracked changes over time using the Vital Signs Trends functionality.

We used the system over the night to measure Edward's pulse and breathing rates, whilst he was resting in his bedroom and **to track his vital signs trends.** His pulse and breathing rates were gradually increasing and early the next morning, **Edward's resting pulse rate spiked to 125** bpm and he was transferred back to A&E.

Using the system to track the trends in his vital signs measurements was useful because we knew that, if we observed a change in his MEWS (Modified Early Warning Score), **we could act immediately** to get him the care he needed.

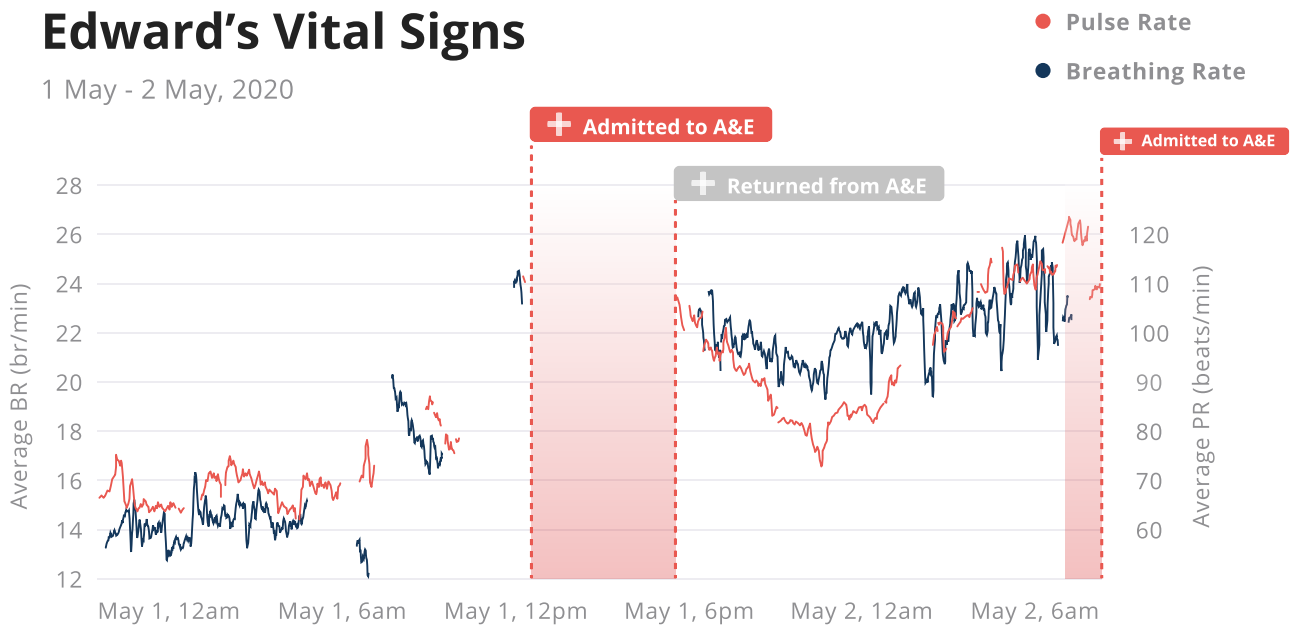
Dr Faith Ndebele, Consultant Psychiatrist

Edward's trends on the next page →

[1]A pseudonym has been used to maintain patient anonymity
[2]The date has been changed to maintain patient anonymity

Edward's Vital Signs

1 May - 2 May, 2020



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, Oxevison, 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[1].

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.

[1]See https://oxe.health/cqc-cwpt