



# Installing the future of mobile monitoring

## Royal Derby and Queen's Hospital Burton



### Customer

University Hospitals of Derby and Burton  
NHS Foundation Trust

### Location

Derby, UK

### Solution

Mobile Viewer & CMS Viewer

### Customer Profile

With five hospitals spread across the historic Peak District and South Derbyshire, University Hospitals of Derby and Burton (UHDB) NHS Foundation Trust serves a population of more than one million people. The Trust employs 12,000 staff and provides clinical services in 48 specialities, supported by a teaching partnership with the University of Derby and an active focus on research.

### Introduction

In September 2020, UHDB embarked on a patient monitoring standardisation project with Mindray. As part of the project, the Trust wanted to futureproof its systems through the M-Connect total connectivity solution, particularly the MobileViewer and CMS Viewer systems. The Trust was looking for a solution which allowed caregivers to see live monitor data away from the traditional nurse's station.

### Challenges

- Implementing mobile technology to multiple devices
- Changing dedicated local networks to accept new infrastructure
- Setting up user access to restrict departments' view to only their patients

### A new take on central monitoring

By combining MobileViewer for their iPads with the CMS Viewer application for their PCs, the Trust has, in a range of acuity settings, created an extremely flexible monitoring system. In rooms where all monitors can be heard but not always seen due to screening or room design, having iPads that can display bedside monitoring allows for total visibility and peace of mind. This level of surveillance is further boosted in some departments with the inclusion of central monitoring stations to give caregivers complete flexibility when observing patients at any point in their workflow.

“Being able to access bedside monitoring from our iPads has been useful for departments across the Trust. The single room areas of our hospitals particularly like the way that all their patients are now instantly visible. With MobileViewer and CMS Viewer we've created a more flexible central monitoring system that is suited to our own environment and workflow.”

Russel Turner, Equipment Library Senior Trainer & Specialist, University Hospitals of Derby and Burton NHS





Used initially in Royal Derby Hospital's Coronary Care Unit (CCU) to provide complete visibility of patient data where each patient has their own room, MobileViewer is now used in several departments – each with access to only the patients in their own department.

CMS Viewer goes even further to expand the capabilities of a traditional central monitoring system. Simply by installing the application to their existing screens, users can see one-way feeds from all connected monitors in the hospital, providing a cost-effective alternative to a fixed central station. Users can even print case reports and 12-lead ECG readings, by reviewing events on CMS Viewer.

## The Solution

**CMS Server:** The CMS Server collects all data from connected bedside monitors and distributes it to the CMS Viewer and Mobile Viewer systems.

**Customisable interface:** CMS Viewer can be customised and colour-coded to the user's preference.

**Alarm Visibility:** Caregivers watching their patients on Mobile Viewer can see medium and high priority alarms.

**Monitoring:** Mobile Viewer and CMS Viewer display all monitoring information from connected monitors.

**Reporting:** CMS Viewer allows users at any connected PC to view events and produce reports, including case reports and 12-lead ECG readings.

**Security :** On Mobile Viewer, departments have secure logins to view only their own patients.

## Conclusion

By largely 'de-centralising' central monitoring in certain departments, the Trust has made patient monitoring data more accessible than ever for its caregivers. The increase in surveillance capabilities offers greater peace of mind for patients and caregivers alike, freeing up more time for more in-person care. In future, consultants may be able to print reports and view patient data from home through the Trust's VPN and Mindray's CMS Viewer, while Mobile Viewer can currently support up to 500 mobile devices, fusing data from 600 beds to allow for plenty of expansion.

By supporting an increase in patient safety without compromising the integrity of patient data, Mindray and UHDB have created a scalable system that can safely futureproof the patient monitoring in Royal Derby and Burton hospitals.

Results from this case study are specific to the organisation featured. Results in other cases may vary.

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