

## THE PROBLEM

By definition, seclusion room monitoring is expensive, labour intensive and time consuming. Monitoring of priority seclusion room clients can involve one staff member monitoring one client on a 24 hour basis. Even with this intensive level of care, preventable and costly incidents are still occurring, particularly in relation to seclusion, sedation or overdose. Seclusion room events can lead to internal investigations or Coroner Inquests, which can be lengthy, expensive and inconclusive.

## THE SOLUTION

VitalGuard accurately surveys and displays life signs without requiring the client to wear any agitating physical attachments. The VitalGuard platform also facilitates migration from paper-based to fully digital seclusion room records. VitalGuard offers a range of safety, resource management health record benefits:

### Save lives

VitalGuard™ triggers an alarm seconds after a respiratory event occurs, allowing staff to react quickly and appropriately. Respiratory events can imply cardiac issues according to 'The Chain of Survival', if one responds to a cardiac event within four minutes, the chance of successful resuscitation is 80% and the chance of brain damage or death is 20%. If the response occurs after four minutes, the chance of successful resuscitation is 20% and the chance of brain damage or death is 80%.

### Paperless Seclusion Room Record

Recording of routine observations and doctors' visits in seclusion room environments is still often a paper-based exercise. There are significant drawbacks and risks associated with paper-based recording systems. Using Paperless Seclusion Room Record™ technology, VitalGuard digitises your existing paper record format, allowing you to seamlessly and cost-effectively migrate to a fully paperless seclusion record. A paperless approach has a number of significant advantages:

- Real-time, accurate document recall
- Instant sharing of care notes between relevant clinicians, staff and departments
- Authoritative information for internal investigation, Coroner Inquest, Inquiry, litigation and also Research & Development
- Clinical Decision Support
- Robust access control to sensitive documents

## THE INFRASTRUCTURE

### VitalGuard monitor

The VitalGuard monitor uses cutting-edge, Industrial, Scientific and Medical (ISM) band radar technology to survey client life signs in a completely contactless manner. ISM band radar is safe for exposure to humans and will provide readings through non-metallic media such as clothing, bedding and wooden furniture. The monitor is fixed at a centre ceiling location and is incorporated into an anti-ligature, vandal proof dome which is certified for use in high secure settings.

### Touch computer

The touch computer runs software required to view and record VitalGuard telemetry. The touch computer can be equipped with an Uninterruptible Power Supply to provide continuous system up-time even in the event of a power outage.

The VitalGuard solution is quick and easy to install or retrofit. One CAT 5 cable runs from the VitalGuard monitor in the seclusion room interior, to a Power-over-Ethernet switch, to the touch computer on the seclusion room exterior.

### VitalGuard software

The VitalGuard software determines the presence of a client in the scan area. The user interface is simple, effective, flexible and user friendly.

## THE MAINTENANCE

Full maintenance and support is provided to ensure every VitalGuard network runs efficiently and effectively at all times.



🏠 Unit A1 Hume Centre  
Parkwest Business Park  
Dublin 12 | Ireland  
✉ info@vitalguard  
☎ +353 1 645 4111