

CASE STUDY

Safety Across the Care Floor How Litum Enhanced Patient and Staff Protection at St. Joseph's



Key Challenge

St. Joseph's Brantford, a prominent healthcare and rehabilitation center in Canada, faced challenges in managing patient safety and staff security. The center, being the largest long-term care home in the region with 205 beds, needed a sophisticated solution to monitor patients, particularly those with cognitive challenges, who are at risk of wandering. Additionally, ensuring the safety of the staff and maintaining a high quality of care were other key concerns.

Solution

To address these challenges, Litum deployed an end-to-end solution leveraging ultra-wideband (UWB) technology for wander management and staff duress. For patient safety, Litum implemented a wander management system using compact, tamper-proof wristband tags designed to monitor the movements of patients, especially those with cognitive challenges, thus mitigating the risks associated with wandering. In parallel, staff safety was reinforced through the deployment of wearable tags equipped with a distress button, enabling staff to instantly signal for assistance in emergencies.

Features



Real-Time Location Tracking: Continuous visibility into patient and staff location across monitored areas



Fall Detection: Automatic detection of patient falls to trigger alerts and enable timely intervention



Staff Duress Alerts: Wearable staff tags with an integrated duress button to instantly request assistance, with precise location information



Zone Entry and Exit Alerts: Monitoring of movement into and out of predefined zones to support wander management and controlled-area oversight



Tamper Alerts: Notifications generated if patient tags are removed or interfered with



Low Battery Alerts for Tags: Automated alerts indicating low battery levels to ensure continuous operation and reduce monitoring gaps



Third-Party Software Integration: Integration with existing healthcare and security systems to support coordinated workflows and centralized visibility

Results

Litum's deployment led to notable improvements in patient and staff safety. For patients, the system ensured increased safety through continuous, secure monitoring, which also allowed for more nuanced and effective care strategies. This contributed to patient well-being and reduced the need for constant physical supervision, thereby enabling more efficient staff allocation. The introduction of staff duress alerts with precise location tracking drastically decreased emergency response times, contributing to a safer and more secure working environment.



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