TECH OFFER

On-Bed Monitoring And Notification System

KEY INFORMATION

TECHNOLOGY CATEGORY:
Electronics - Sensors & Instrumentation
- Healthcare

TECHNOLOGY READINESS LEVEL (TRL): TRL9

COUNTRY: THAILAND

ID NUMBER: TO174248

OVERVIEW

This Technology Offer is a monitoring and notification system of on-bed movements to assess the conditions of patients, especially those with stroke-induced mobility impairments. Equipped with sensors and digital devices, the system helps reduce risks of the patient falling off from a bed. This system can also notify the caregiver to change the position of the patient if it detects that the patient is in the same position for a prolonged period of time. In this way, it can help to reduce the risk of the patient developing pressure sores.

TECHNOLOGY FEATURES & SPECIFICATIONS

Equipped with sensors and digital devices, the system has been continually developed and upgraded. There are three versions available: 2019 Beta, 2020 Alpha, and 2020 Beta; all of which have passed required standards.

- Anti-Bacteria / Waterproof
• 1-second Response time
• Customizable Intranet Database / Web-app
• Chance-to-Fall Score
• Bedsore Prevention
• IEC 60950-1 Certified

POTENTIAL APPLICATIONS

The technology is based on an IoT sensor mat to monitor activities of patients on the bed, via a web application dashboard. Bedsores are one of the critical issues from patients who are bedridden. The system helps monitor the pressured points of patients, and can notify caregivers of the patients’ condition, so that intervention can be given to prevent bedsores. The system can also help to reduce the risk of the patient falling off the bed by giving early warning notifications to caregivers.

BENEFITS

This technology is an early warning system for the prevention of falls off the bed, and for the prevention of bedsores.