

Surgical Instrument Tracking and Maintenance System for the University Hospital, KDU

KPPT Gunaratne^{1#}, HRWP Gunathilake¹ and KDW Wijenayake¹

¹General Sir John Kotelawala Defence University, Sri Lanka

#36-se-0010@kdu.ac.lk

Lack of attention to the correct use of surgical instruments leads to errors in practice and especially, it is difficult to control losses. The present research aims to effectively use a surgical instrument tracking and maintenance system at University Hospital KDU, Sri Lanka. The features required to develop a system for the institution were identified by studying the existing literature about traceability systems. We decided to use the QR code technology to detect and find the location of an individual surgical instrument. While securing the main purpose of the health and safety of patients, the system would increase labour efficiency and lessen worker responsibility, even though statistically significant data have not yet been discovered. The paper also demonstrates the benefits of using a surgical instrument tracking and maintenance system in a hospital's Central Sterile Supply Department. The outcomes of this study will be used for future implementation purposes of the system.

Keywords: QR code, instrument tracking system, medical equipment management system