



Abstract

- **Introduction**

Quarantine Unit, Ministry of Health, Nutrition and Indigenous Medicine, Sri Lanka is the focal point of preventing internationally spread of diseases. Main aim of the unit is to take necessary actions to implement International Health Regulations (IHR2005) However, to provide countless services in preventing spread of diseases worldwide, paper based information management and lack of electronic surveillance mechanism are identified as major weaknesses at present.

- **Objectives**

Design, Develop, Pilot and Implement of an Electronic Health Record Management and Surveillance System to the Quarantine Unit, Ministry of Health, Nutrition and Indigenous Medicine, Sri Lanka.

- **Methodology**

Initially, the requirements for an Electronic Health Record Management and Surveillance system were identified by studying the existing information flow. A Feasibility study was performed before the design and development of the electronic system. The District Health Information System Version 2 (DHIS2), which is free and open source software platform is used to develop Quarantine Health Record Management and Surveillance System (QHRMS). QHRMS meant to collect, analyse, visualise and present the data obtained from all points of entries of Sri Lanka.

- **Results**

Islandwide implementation of developed QHRMS was completed with conducting workshops and onsite hands-on training sessions for the users. The QHRMS accommodates all the health related data generated from the points of entries and act as a data warehouse for data analysis, data visualisation and report generation -which are essential for implementing IHR 2005.

- **Conclusion**

User feedbacks and practical benefits of the the QHRMS confirms that QHRMS can be used as a better alternative to the existing paper based information management. Transformation from paperbased systems to fully automated information management and surveillance system can be considered in QHRMS evaluation.