

Abstract:

Introduction and Objectives:

In mental health facilities in Sri Lanka, in-ward patient data are captured by indoor morbidity and mortality records, while outpatient data are captured from aggregated paper-based returns generated at clinic level. Paper-based returns inherits limitations of timeliness, accuracy and quality.

Objectives of this study were to revise the national mental health returns, design, implementation and training of electronic Mental Health Management Information System (eMHMIS) and evaluation of the system usability.

Methods:

Existing national mental health returns were revised with adaptation of minimal data set principle. System requirements identified and eMHMIS was developed using District Health Information System Version 2 (DHIS2). The system was implemented island-wide at the Regional Director of Health Services offices. Out-patient data capture and analysis were provided through the system at Regional, Provincial and National levels.

An evaluation of system usability was done using an online self-administered questionnaire (International System Usability Scale) which is a validated tool in Sri Lanka. A score ≥ 70 indicated good system usability. The online questionnaire was developed using google forms and sent to the 44 users. We analysed data using Statistical Package for Social Sciences (SPSS) Version 22.

Results:

Out of 44 eMHMIS users, 31 participated in the system evaluation. Of them, 61.3% were female and 38.7% were male. A vast majority of the users were university graduates (90.7%). Of them, 51.6% were Medical Officers and 22.5% were Developmental Officers. The median usability score of the participants was 70.0(IQR 57.5-77.5).

Conclusion:

According to the International System Usability Scale, the participants have evaluated eMHMIS as 'Good' in its usability.