

**ASSESSMENT ON DATA QUALITY OF ROUTINE PUBLIC HEALTH
MANAGEMENT INFORMATION USING DISTRICT HEALTH INFORMATION
SOFTWARE VERSION 2 IN EAST DISTRICT, YANGON REGION**

**KHINE KHINE SAW
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ABSTRACT

Health Management Information System (HMIS) is one of six key attributes, or building blocks of health system. Health information systems are increasingly important for measuring and improving the quality and coverage of health services for community. Nowadays, in developing countries, data from health information system are processed by using with District Health Information Software Version 2 (DHIS2).

A cross-sectional descriptive study was conducted to assess completeness and quality of routine public health management information using DHIS2 in East district of Yangon region during first quarter of year 2016. In order to get the quality of documentations, one of four districts and one of four quarters were randomly selected and thus 42 studied reports of 14 townships for January, February, March (monthly report form 1 and Diseases under National Surveillance (DUNS) for each report) were obtained to assess the quality and completeness of routine public health management information using DHIS2. These records were evaluated using checklists. The reporting rate summaries for all reports were complete (100%). The overall consistency was satisfactory (99.5%). The discrepancy of data items were 0.5% between paper-based and electronic-based reporting. Timeliness of paper-based reporting was 50% and all electronic-based reporting were not in time. Therefore, the result of this study pointed out to develop training regarding with electronic-based reporting, provision of facilities and appointed adequate health personnel in right place. The perception of all respondents in Yangon regional public health department was explored with the key informant interview and in-depth interview. All the respondents answered that electronic reporting with DHIS2 is important and they told that complete, real time and good data quality of DHIS2 documentation support health care system. Regarding to the facing difficulties and challenges, limited skillful human resources in health information system at various levels, insufficient facilities, limited knowledge about role and importance of health information system especially township and health facilities level and also about electronic-based reporting at all respective levels of health personnel were the main problems. And then, it is needed to create opportunity of career development for motivation of health personnel in their working environment. Continued onsite support supervision and mentorship, infrastructure enhancements, including internet connectivity, in-service training are needed to strengthen the functional HMIS with utilization of DHIS2 software.