Course	Master of Public Health	Name	Moe Moe Linn

Thesis Title	Determinants of quality of clinical codes in the hospital information systems in Myanmar: a retrospective study at two public hospitals

Abstract of Master's Dissertation

Background :

Clinical codes are one of the important clinical data for making clinical decisions and management at health facilities. No study has been conducted yet on quality of clinical codes in district health information software version-2 (DHIS2), a web-based hospital information system, in Myanmar.

Objectives :

To assess quality of clinical codes in DHIS2 and identify its determinants.

Methods :

This is a retrospective study at two public hospitals in Myanmar. Report submission of MRs in DHIS2 in 2021 was reviewed, and accuracy of clinical codes among 384 MRs was estimated. The determinants of accuracy of clinical codes were identified by conducting bivariate and multivariate analyses. An online survey based on semi-structured questionnaires was conducted by targeting 11 medical records technicians at these public hospitals.

* The abstract, containing background, objectives, methods, results and conclusion should not exceed 300-500words and printed double sided on A4 paper)

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Results :

Overall report submission rate of MRs on Form II in DHIS 2 was 68.3% in two hospitals. Overall accuracy of clinical codes was 88.2% (95% CI: 84.6-91.3%). MRs produced at the orthopedic ward, and MRs for "neoplasm", and MRs for "endocrine, nutritional, and metabolic diseases" were significantly more likely to have inaccurate clinical codes ($p = 0.031$, $p < 0.001$, and $p = 0.004$ respectively). MRTs stated their self-perceived challenges in the open-ended questions of the survey.

Conclusion :

This study identified the determinants of accuracy of clinical codes and additionally hypothetical casualties for quality of clinical codes. This study is expected to serve as a useful tool for improving hospital information systems in Myanmar.