

FACTORS ASSOCIATED WITH COMPLETENESS AND ACCURACY OF ELECTRONIC MEDICAL RECORD ENTRY IN COMMUNITY HEALTH CENTER IN YOGYAKARTA

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ABSTRACT

Background: The implementation of electronic patient records in primary care is a key objective of many health care systems, including Indonesia. This reflects a growing recognition of the potential benefits of electronic records on the safety, quality and efficiency of healthcare. Documentation in the medical record is expected to be complete, accurate, concise, and timed/dated. This study aimed to analyze factors associated with completeness and accuracy of electronic medical record entry in community health center in Yogyakarta.

Subjects and Method: This was an analytic observational study with a cross-sectional design. The study was conducted in 25 community health centers in Yogyakarta, from March to June 2018. A sample of 200 patient medical records was selected by simple random sampling. The dependent variables were completeness and accuracy of medical record. The independent variables were tenure, multi task, and accreditation status of puskesmas. The data were collected by questionnaire and analyzed by a multiple logistic regression.

Results: Completeness of electronic medical record was positively associated with longer tenure ($b= 0.58$; 95% CI= 0.10 to 1.05; $p=0.018$), but negatively associated with multiple task occupation ($b= -2.12$; 95% CI= -3.44 to -0.81; $p= 0.002$). Accuracy of electronic medical record was positively associated with longer tenure ($b= 1.10$; 95% CI= 0.34 to 1.85; $p= 0.005$), but negatively associated with multiple task occupation ($b= -4.20$; 95% CI= -6.30 to -2.11; $p<0.001$). Accreditation status of puskesmas did not affect completeness and accuracy.

Conclusion: Completeness and accuracy of electronic medical record are positively associated with longer tenure, but negatively associated with multiple task occupation. Accreditation status of puskesmas does not affect completeness and accuracy.

Keywords: electronic medical record, completeness, accuracy, tenure, occupation, community health center

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