

CONTEXTUAL EFFECT OF COMMUNITY HEALTH CENTER ON HEALTH SURVEILLANCE PERSONNEL PERFORMANCE IN EARLY DETECTION OF PREECLAMPSIA IN SEMARANG, CENTRAL JAVA

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ABSTRACT

Background: Although the precise pathophysiology of pre-eclampsia remains unknown, this condition continues to be a major cause of maternal and fetal mortality. Good performance is needed by health workers in detecting early preeclampsia. The purpose of this study was to determine the contextual effect of community health center on health surveillance personnel performance in early detection of preeclampsia in Semarang, Central Java.

Subjects and Method: A cross sectional study was conducted in 26 community health centers in Semarang, from October to December 2018. A sample of 148 health surveillance personnels was selected by exhaustive sampling. The dependent variable was performance. The independent variables were motivation, stress, satisfaction, age, education, incentive, leadership style, and supervision. The data were collected by questionnaire and analyzed by a multilevel linear regression.

Results: Health surveillance personnel performance was positively associated with motivation ($b = 0.09$; 95% CI= 0.05 to 0.14; $p < 0.001$), stress ($b = 0.08$; 95% CI= 0.01 to 0.16; $p = 0.035$), satisfaction ($b = 0.09$; 95% CI= 0.04 to 0.14; $p < 0.001$), incentive ($b = 0.56$; 95% CI= 0.09 to 1.03; $p = 0.021$), leadership style ($b = 0.20$; 95% CI= 0.07 to 0.33; $p = 0.002$), and supervision ($b = 0.27$; 95% CI= 0.14 to 0.40; $p < 0.001$). Health surveillance personnel performance was negatively associated with age ($b = -0.09$; 95%CI= -0.17 to -0.02; $p = 0.019$). It was negatively associated with education but it was statistically non-significant ($b = -0.27$; 95% CI= -1.01 to 0.48; $p = 0.483$). Community health center had contextual effect on performance with ICC= 10.5%.

Conclusion: Health surveillance personnel performance is positively associated with motivation, stress, satisfaction, incentive, leadership style, and supervision. Health surveillance personnel performance is negatively associated with age. It is negatively associated with education but it was statistically non-significant. Community health center has a considerable contextual effect on performance.

Keywords: health surveillance, performance, early detection, preeclampsia, multilevel analysis

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