

Mini Pre-Preclampsia Integrated Estimate of Risk Score in Predicting Adverse Maternal Outcomes in Pre-Eclampsia

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Pre-eclampsia is a systemic syndrome that is characterized by new-onset hypertension and proteinuria in pregnancy. Early identification of women with pre-eclampsia at high risk of complication will aid in reducing the maternal morbidity and mortality. The aim of this study was to study miniPIERS calculator in predicting adverse maternal outcomes in pre-eclampsia. This hospital based descriptive study was carried out in Central Women's Hospital, Mandalay during the period of one year from January 2021 to December 2021. The study include 185 pregnant women with pre-eclampsia. The development of the adverse maternal outcomes was assessed within 48 hours of admission. The mini Pre-eclampsia Integrated Estimate of Risk Score (miniPIERS) calculator consists of 8 predictor variables. Diagnostic accuracy was calculated by sensitivity, specificity, positive predictive value and negative predictive value. The adverse maternal outcomes occurred in 13% (n=24) within 48 hours. At the predicted probability of adverse outcome, the cut-off score ≥ 1.65 had significantly high and equally distributed sensitivity (100%), specificity (95.8%), PPV (83.3%) and NPV (100%) with the diagnostic accuracy of 96%. It was statistically significant in identifying high risk cases of pre-eclampsia. The AUC ROC of 0.975 for the 48 hours data indicated outstanding performance and statistically significant, p-value < 0.001 . In this study, the miniPIERS score was a useful tool for predicting adverse maternal outcomes in pregnant women with pre-

eclampsia. Indeed, to validate and refine the accuracy of the miniPIERS model, further assessment through multicentric, prospective, and large-scale studies is essential.

Reference

1. Dr Hsu Myat Noe. Mini pre-eclampsia integrated estimate of risk score in predicting adverse maternal outcomes in pre-eclampsia. Central Women's Hospital, Mandalay. 2024.

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