THE RELATIONSHIP BETWEEN THE CHARACTERISTICS OF PREGNANT WOMEN AND THE INCIDENCE OF PREECLAMPSIA

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ABSTRACT

Background: *Preeclampsia is one of the leading causes of maternal and fetal morbidity and mortality. It is a condition characterized by elevated blood pressure of ≥140/110 mmHg in pregnant women accompanied by proteinuria after 20 weeks of gestation or later. Maternal characteristics, including age, parity, history of hypertension, and Body Mass Index (BMI), are suspected to be associated with the occurrence of preeclampsia.* ***Objective:*** *To determine the association between maternal characteristics, including age, parity, history of hypertension, and Body Mass Index (BMI), and the occurrence of preeclampsia in the working area of Lawang Community Health Center (Puskesmas Lawang).* ***Methods:*** *This study employed a quantitative analytical observational design with a retrospective approach, involving a sample of 56 pregnant women diagnosed with preeclampsia. The samples were selected using a total sampling technique based on medical record data from January to December 2025. Data were analyzed using univariate and bivariate analyses, with the Chi-square test and Spearman's rank correlation test.* ***Results:*** *Most respondents were aged 20–35 years, were nulliparous/primiparous, had no history of hypertension, had a Body Mass Index (BMI) in the Obesity Class I category, and experienced mild preeclampsia. The analysis showed no significant association between age, parity, or BMI and the occurrence of preeclampsia ($p > 0.05$). In contrast, a history of hypertension was significantly associated with the occurrence of preeclampsia ($p < 0.05$).* ***Conclusion:*** *A history of hypertension was significantly associated with the occurrence of preeclampsia, whereas age, parity, and BMI were not significantly associated. These findings highlight the importance of early detection and close monitoring of pregnant women with a history of hypertension to help prevent the development of preeclampsia.*

Keywords: *age, parity, history of hypertension, Body Mass Index (BMI), Preeclampsia*