

***Analysis of Spontaneous Abortion (O03) Risk Factor at Citra Husada Hospital  
Jember***

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***ABSTRACT***

*Spontaneous abortion is a pregnancy-related problem that has significant impact on maternal morbidity and mortality, and reduces live birth rates. At Citra Husada Hospital Jember, abortion cases increased significantly from 57 cases in 2022 to 95 cases in 2024 and ranks among the top ten maternal-related diseases. This study aimed to analyze the association between maternal age, parity, interpregnancy interval, history of comorbid diseases, and history of abortion with the incidence of spontaneous abortion at Citra Husada Hospital Jember. An observational analytic study with a case-control approach. The case population consisted of 149 while the control consisted of 165 medical records. Samples were selected using a fixed disease sampling technique, with 68 medical records both in the case group (spontaneous abortion) and control group (pregnancy without abortion). Data were analyzed using univariate and bivariate analyses with the chi-square test using SPSS. The results showed a significant association between maternal age and the incidence of spontaneous abortion ( $p = 0.036$ ;  $OR = 3.179$ ). Meanwhile, parity ( $p = 0.217$ ), interpregnancy interval ( $p = 0.647$ ), history of comorbid diseases ( $p = 0.058$ ), and history of abortion ( $p = 1.000$ ) were not significantly associated with spontaneous abortion. In conclusion, maternal age below 20 years and above 35 years during pregnancy is associated with an increased risk of spontaneous abortion at Citra Husada Hospital Jember. It is recommended that the hospital provide regular education and more comprehensive antenatal monitoring, particularly for high-risk pregnant women aged below 20 years and above 35 years.*

***Keywords*** : *spontaneous abortion, risk factors, interpregnancy interval, parity, comorbidities, medical records, maternal age.*