

Analysis of the Relationship Between Age, Gender, Comorbidities and Accompanying Diseases, and Type of Treatment with the Length of Stay of Pneumonia Patients at Kaliwates General Hospital, Jember

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ABSTRACT

Pneumonia remained a health problem at Kaliwates general Hospital Jember, with 1.075 inpatient cases recorded in 2025. In addition, patients with lengths of stay shorter or longer than the 7-day standard and repeated hospitalizations among pneumonia patients were still found. This study aimed to determine the relationship between age, gender, comorbidities and accompanying diseases, and type of treatment with the length of hospital stay among pneumonia patients at Kaliwates General Hospital Jember. This study used a quantitative method with a cross-sectional design and secondary data obtained from medical records of pneumonia inpatients during the January-December 2025 period. The population in this study consisted of 1,075 patients, with a sample of 284 patients selected using a simple random sampling technique. Data analysis was conducted using univariate analysis with frequency distribution tables and bivariate analysis using the Chi-Square statistical test. The result showed that most pneumonia patients were dominated by toddlers and elderly groups, were male, had no comorbidities and accompanying diseases, received non-ICU treatment, and had a length of stay of ≤ 7 days. Bivariate analysis showed a significant relationship between age as well as comorbidities and accompanying diseases with length of stay (p value $\leq 0,05$), while gender and type of treatment had no significant relationship with the length of stay (p value $> 0,05$). The study concluded that age as well as comorbidities and accompanying diseases were associated with the length of stay among pneumonia patients. Hospitals are expected to increase vigilance toward high-risk age groups and optimize medical record documentation.

Key words : *pneumonia, length of stay, medical records*