

ABSTRACT

ANALYSIS STUDY OF GERM NUMBER INDEX IN THE OPERATING ROOM OF THE CENTRAL SURGICAL INSTALLATION OF RSUD DR. R. KOESMA TUBAN

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The incidence of nosocomial infections in hospitals in Indonesia is still very high, there is still a high incidence of infection in government hospitals of 55.1% and 35.75% in private hospitals. In developing countries including Indonesia, the prevalence of infection is on average 9.1% with a variation of 6.1%-16.0% (Ratnawati & Sianturi, 2021). Meanwhile, at rsud dr. R. Koesma, Tuban Regency, the incidence of Plebhitis in the first month, the highest incidence in February was 4.19% and the lowest incidence in January was 3.9% (PPI Team, 2022)

Type of research with descriptive dengan Cross *Secsional* research design. The sample population is the entire functioning operating room which is 5 (five) operating rooms. The size of the sampling is in each room, 1 (one) sample is taken. So that the sample size is 5 (five) samples. Sampling technique by means of total sampling. Data analysis using multivariate analysis.

The results showed that the average germ number index of 14.40 CFU / m³ met the established Quality Standard of 35 CFU / m³. (Permenkes RI Number 02 of 2023). The P-Value < 0.05 in the free variable indicates that temperature, humidity and air pressure greatly affect the value of the germ number index. The higher the temperature variable, the greater the germ number index value. The higher the humidity variable, the lower the germ number value.

It is recommended to adjust the temperature in Room OK 3, it needs to be raised so that it reaches the Quality Standard which is 22 ° C -27 ° C. Humidity that does not meet the Quality Standards can be done by increasing the intensity of lighting. And always record the temperature and humidity periodically so that the temperature and humidity are maintained

Keywords : germ number, air germ