

# Kualitas fisik biologis udara di ruang ICU Rumah Sakit : studi kasus rumah sakit umum daerah Tarakan = Physical biological quality of air in ICU room at Hospital : case study Tarakan regional public hospital

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## Abstrak

Kualitas udara di ruang ICU perlu diperhatikan karena kerentanan pasien akan penyakit dan menghindarinya dari infeksi nosokomial. Beberapa indikator dari pencemar udara dalam ruang adalah konsentrasi bakteri dan konsentrasi jamur. Pengambilan sampel bakteri dan jamur di udara menggunakan alat EMS serta media kultur TSA untuk bakteri dan media kultur PDA untuk jamur. Penelitian ini bertujuan untuk mengetahui hubungan antara konsentrasi bakteri dan jamur berdasarkan besarnya intensitas cahaya, kelembaban, dan temperatur. Intensitas cahaya, kelembaban, dan temperatur terhadap konsentrasi bakteri memiliki korelasi Spearman Rank sebesar -0,043; 0,033; -0,194 dan korelasi analisis regresi linear sebesar -0,115; 0,017; -0,168. Intensitas cahaya, kelembaban, dan temperatur terhadap konsentrasi jamur memiliki korelasi Spearman Rank sebesar -0,231; 0,062; -0,095 dan korelasi analisis regresi linear sebesar -0,265; 0,072; -0,192.

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Air quality in ICU Room need to be considered as susceptibility to disease and avoid nosocomial infection. Some indicators of indoor air pollutants are bacteria and fungi. Using EMS and TSA as a media culture for bacteria and PDA as a media culture for fungi. In this study, the concentrations of bacteria and fungi were analyzed based on intensity of ray, humidity, and temperature. Intensity of ray, humidity, and temperature in the room have a relationship with the concentration of bacteria with the Spearman Rank correlation coefficient of -0.043; 0.033; -0.194 and with linear regression analysis correlation coefficient of -0.115; 0.017; -0.168. Intensity of ray, humidity, and temperature in the room have a relationship with the concentration of fungi with the Spearman Rank correlation coefficient of -0.231; 0.062; -0.095 and with linear regression analysis correlation coefficient of -0.265; 0.072; -0.192.