

# Hubungan Antara Karakteristik Klinis Pasien Kanker Ginekologi dengan COVID-19 Terhadap Tingkat Mortalitas di Rumah Sakit Dr. Cipto Mangunkusumo Tahun 2020-2022 = Relationship Between Clinical Characteristics of Gynecological Cancer Patients and COVID-19 Against Mortality Rates at Dr. Cipto Mangunkusumo in 2020-2022

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## Abstrak

Seluruh aspek kehidupan telah dipengaruhi oleh pandemi COVID-19 termasuk bidang kesehatan. Disisi lain, terdapat peningkatan jumlah penderita kanker setiap tahunannya. Hubungan karakteristik klinis kanker ginekologi dengan infeksi COVID-19 terhadap mortalitas belum banyak diteliti. Dalam penelitian ini digunakan metode retrospective cross-sectional yang menggunakan data pasien penderita kanker ginekologi dengan infeksi COVID-19 yang terdaftar pada Departemen Obstetri Ginekologi RSPUN Dr. Cipto Mangunkusumo pada tahun 2020-2022. Penelitian ini menggunakan analisis uji Chi Square untuk menentukan variable yang akan dimasukkan kedalam analisis regresi logistik backward stepwise. Dalam penelitian ini ditemukan usia  $>59$  (OR, 0.020; CI 95% 0.001-0.577;  $P= 0.023$ ), anemia (OR, 0.053; CI 95% 0.005-0.565;  $P= 0.015$ ), ARDS (OR, 50,010; CL 95%, 1,145-2185.101;  $P = 0.042$ ), Hyperkalemia (OR, 11,189; CI 95% 1,491-83.992;  $P = 0.019$ ), Sepsis (OR, 18,386; CI 95% 2,220-152.253;  $P= 0.007$ ), ECOG  $>2$  (OR, 12.859; CI 95% 2.582-64.020;  $P= 0.002$ ), and Degree of Severe-Critical COVID-19 (OR, 111.310; CI 95% 3.961-3128.117;  $P= 0.006$ ). Dapat disimpulkan ARDS, hyperkalemia, sepsis, ECOG  $>2$ , dan derajat COVID-19 berat-kritis memiliki signifikansi baik terhadap statistik maupun klinis dengan mortalitas, namun usia  $> 59$  dan anemia secara klinis tidak memiliki signifikansi.

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All aspects of life have been affected by the COVID-19 pandemic, including the health sector. On the other hand, the number of cancer patients is continuously increasing every year. The relationship between clinical characteristics of gynecological cancer with COVID-19 infection and mortality has not been widely studied. This study used a retrospective cross-sectional method using data on patients with gynecological cancer with COVID-19 infection registered in the gynecology department of Dr. Cipto Mangunkusumo Hospital in 2020-2022. This study used chi-squared test analysis to determine the variables to be included in backward stepwise logistic regression analysis. In this study, it was found that age  $>59$  (OR, 0.020; CI 95% 0.001-0.577;  $P = 0.023$ ), anemia (OR, 0.020; CI 95% 0.001-0.578;  $p= 0.023$ ), ARDS (OR, 48.796; CI 95%, 1.131-2105.921;  $P=0.043$ ), hyperkalemia (OR, 10.960; CI 95% 1.462-82.187;  $p= 0.020$ ), sepsis (OR, 18.087; CI 95% 2.192-149.271;  $P= 0.007$ ), ECOG  $>2$  (OR, 12.629; CI 95% 2.538-62.854;  $P= 0.002$ ), and degree of severe-critical COVID-19 (OR, 108.771; CI 95% 3.917-3020.095;  $P= 0.006$ ). It can be concluded that ARDS, hyperkalemia, sepsis, ECOG  $>2$  and degree of severe-critical COVID-19 have both statistical and clinical significance with mortality, but age  $>59$  and anemia have no clinical significance.