

INTISARI

HUBUNGAN STATUS VAKSINASI TERHADAP TINGKAT KEPARAHAN COVID YANG DINILAI DENGAN SKOR NATIONAL EARLY WARNING SCORE 2 (NEWS2) PADA PASIEN COVID-19 DI RSUP DR. SARDJITO YOGYAKARTA

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Latar Belakang: Vaksinasi dinilai sebagai pendekatan yang paling menjanjikan dalam mengatasi pandemi COVID-19. Vaksinasi COVID-19 telah terbukti bermanfaat dalam menurunkan transmisi (30-80% pasca dosis pertama dan >90% pasca dosis ke 2), kejadian infeksi berat (65%) dan kematian (69%) akibat COVID-19. Hingga saat ini, pengaruh dari vaksinasi COVID-19 terhadap penurunan tingkat keparahan dan kematian pasien COVID-19, khususnya pada pasien yang membutuhkan perawatan di rumah sakit masih belum diketahui. Vaksinasi COVID-19 telah diimplementasikan secara luas di seluruh dunia, termasuk di Indonesia.

Tujuan: Mengetahui hubungan status vaksinasi COVID-19 terhadap tingkat keparahan COVID yang dinilai dengan skor NEWS2 pada pasien COVID-19 yang dirawat di RSUP Dr. Sardjito.

Metode: Penelitian ini menggunakan metode penelitian potong lintang dengan mengambil data seluruh pasien COVID-19 yang dirawat di RSUP Dr. Sardjito pada periode 1 Januari 2021 hingga 31 Desember 2022. Analisa statistik bivariat menggunakan uji *Chi-Square* dan menghitung OR (*Odds Ratio*) untuk mengetahui pengaruh status vaksinasi terhadap skor NEWS2 pada pasien COVID-19, hasil dinyatakan bermakna secara statistik bila nilai $p < 0.05$ dengan interval kepercayaan 95%.

Hasil: Diperoleh 1852 subyek yang diteliti, kelompok tidak vaksin dan vaksin dibandingkan skor NEWS2. Pada kelompok status vaksin diperoleh *odds ratio* sebesar 0,701 yang artinya kelompok yang melakukan vaksin berhubungan dengan skor NEWS2 dimana tindakan vaksinasi mengurangi risiko terjadinya skor NEWS2 ≥ 7 sebesar 29,9% dibandingkan kelompok tidak vaksin dengan nilai p 0,021.

Kesimpulan: Status dan kelengkapan vaksinasi COVID-19 berpengaruh terhadap skor NEWS2 pada pasien COVID-19 yang dirawat di RSUP Dr. Sardjito. Kelompok vaksin tidak lengkap dan vaksin lengkap memiliki efek protektif.

Kata Kunci: Vaksin, COVID-19, NEWS2

ABSTRACT

CORRELATION OF VACCINATION STATUS ON THE SEVERITY OF COVID ASSESSED BY THE NATIONAL EARLY WARNING SCORE 2 (NEWS2) IN COVID-19 PATIENTS AT DR. SARDJITO YOGYAKARTA

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Background: Vaccination is considered the most promising approach in overcoming the COVID-19 pandemic. COVID-19 vaccination has been proven to be useful in reducing transmission (30-80% after the first dose and >90% after the 2nd dose), the incidence of severe infections (65%) and deaths (69%) due to COVID-19. Until now, the effect of COVID-19 vaccination on reducing the severity and mortality of COVID-19 patients, especially in patients who require hospital treatment is still unknown. COVID-19 vaccination has been implemented widely throughout the world, including in Indonesia.

Objective: To determine the correlation of COVID-19 vaccination status on the severity of COVID as assessed by the NEWS2 score in COVID-19 patients treated at Dr. Sardjito Hospital.

Methods: This research uses a cross-sectional research method by taking data on all COVID-19 patients treated at Dr. Sardjito Hospital in the period 1 January 2021 to 31 December 2022. Bivariate statistical analysis using the Chi-Square test and calculating the OR (Odds Ratio) to determine the effect of vaccination status on the NEWS2 score in COVID-19 patients, the results are declared statistically significant if the *p* value <0.05 with a 95% confidence interval.

Result: There were 1852 subjects studied, the non-vaccinated and vaccine groups compared NEWS2 scores. In the vaccine status group, an odds ratio was obtained of 0.701, which means that the group that received the vaccine was related to the NEWS2 score, where vaccination reduced the risk of a NEWS2 score > 7 by 29.9% compared to the group that did not receive the vaccine with a *p* value of 0.021.

Conclusion: The status and completeness of COVID-19 vaccination influences the NEWS2 score in COVID-19 patients treated at Dr. Sardjito Hospital. The incomplete vaccine and complete vaccine groups had a protective effect.

Keywords : Vaccine, COVID-19, NEWS2