

Risk factors associated with the need to use corticosteroids in hospitalized patients with COVID-19

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Abstract

Coronavirus 2019 (COVID-19) is a serious infectious disease that affects humans globally. One of the common therapeutic choices used in treating COVID-19 patient are Corticosteroids. Some studies questioned the safety of Corticosteroids because of its immunosuppressant effect, While Others considered inhaled Corticosteroids as a safe and more targeted treatment for treating respiratory tract infections. Therefore, the present study aimed to evaluate the factors that influence the need to use inhaled Corticosteroids among COVID-19 patients.

According to a stepwise Binary logistic regression analysis on 251 patients, factors associated with the less need to use inhaled Corticosteroids are nonsmoking and having low severity of symptoms at admission to the hospital. The findings of this study may support giving higher dose of inhaled corticosteroids to smoking patients and patients who have high symptoms severity at admission to the hospital.

Key words: COVID-19, Inhaled corticosteroids, SARS-CoV-2, in-hospital stay.