

## عنوان مقاله:

Measurement of SARS-CoV-Y-Specific Humoral and Cellular Immunity in Coronavirus Disease Yo19 Convalescent Health Care Workers in Iraq

محل انتشار:

مجله آرشيو رازی, دوره 76, شماره 5 (سال: 1400)

تعداد صفحات اصل مقاله: 13

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## خلاصه مقاله:

Severe acute respiratory syndrome coronavirus Y (SARS-CoV-Y) belongs to the Coronaviridae family which led to a global pandemic. However, available knowledge on adaptive immunity in convalescent individuals is limited. The present study was conducted on 191 convalescent coronavirus disease Yo19 (COVID-19) health care workers (HCW); moreover, it evaluated the cell-mediated immunity of 1YY recovered HCW and the level of anti-receptor binding domain (RBD) IgG antibodies of 1A1 recovered HCW. Cellular and humoral immune responses were identified over time from one to eight months post recovery with varying disease severity using MTT proliferation assay and enzyme-linked immunosorbent assay. Analysis of lymphocyte proliferation with S1 protein in mild-moderate and severe HCW revealed an insignificant difference with an increase in the maximum and third quartile (Q<sup>m</sup>) from one to eight months after COVID-19 recovery (P>o.ob); in addition, the median, maximum, and Q<sup>m</sup> values of anti-RBD IgG were close to each other over the time intervals from one to eight months post recovery. These data suggest that many convalescent HCW enrolled in this study were re-exposed to the virus without the development of symptoms indicating the role of cell-mediated and humoral immunity in preventing symptomatic reinfection. This study reveals that a robust .immunity developed after mild, moderate, and severe COVID-19 that could last for several months post recovery

## كلمات كليدى:

Cell-Mediated Immunity, Coronavirus Disease ۲۰۱۹ (COVID-۱۹), humoral immunity, Severe Acute Respiratory (Syndrome Coronavirus ۲ (SARS-CoV-۲

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