

#### عنوان مقاله:

Elevated Levels of Anti-SARS-Covr IgG Antibody in Health Care Workers in Hospitals From Hamadan Province, Iran: A Prospective Study

### محل انتشار:

میکروبیولوژی بالینی و عفونت, دوره 9, شماره 2 (سال: 1401)

تعداد صفحات اصل مقاله: 7

## نویسندگان:

Ebrahim Jalili - Department of Emergency Medicine, School of Medicine, Besat Hospital, Hamadan University of Medical Sciences, Hamadan, Iran

Saeid Bashirian - Department of Public Health, Social Determinants of Health Research Center, Hamadan University of Medical Sciences, Hamadan, Iran

Mohammad Reza Faryabi - Department of Public Health, Social Determinants of Health Research Center, Hamadan University of Medical Sciences, Hamadan, Iran

Mina Noroozbeygi - Department of Immunology, School of Medicine, Besat Hospital, Hamadan University of Medical Sciences, Hamadan, Iran

### خلاصه مقاله:

Aim: Seroprevalence among health care workers (HCWs) has been estimated in different studies in various regions and countries. This study aimed to screen the immunoglobulin M (IgM) and IgG seroprevalences and to assess the durability of IgG seropositivity, as well as the incidence of subsequent severe acute respiratory syndrome coronavirus Y (SARS-CoV-Y) infection in a group of Iranian HCWs. Methods: This voluntary serological screening was prospectively performed on A... HCWs (F9Y females and W.A males) in Hamadan between November Y.Y. and February רואסץ. Anti-SARS-CoV-Y IgG and IgM antibodies were assessed by the enzyme-linked immunosorbent assay method at two-time intervals. Results: Overall, YFT out of A.o. (To.TA%) and FF (A.YA%) cases were IgG and IgM seropositive at their first antibody assessment, respectively. The male staff had a higher seroprevalence than females (W).F9% vs. Y9.FV% for IgG, P = 0.09 and 10.W9% vs. F.91% for IgM, P = 0.0A). Higher prevalences for both antibodies were found in the age group of  $\mathcal{P} \circ \mathcal{P} \circ \mathcal{P} \circ \mathcal{P}$  and  $P = \circ \mathcal{P} \circ \mathcal$ (۵۶.۶%) cases were IgG seropositive. The mean titer of the first IgG antibody assessment in seropositive cases was lower than that of the second titer (Y.9 $\Delta$  ± Y.•Y vs.  $\Delta$ . $\circ A$  ± F. $\circ$ ) cut-off index (COI), P = 1.F×10- $\Delta$ ). Moreover, the comparison of the first and second IgG titers among AI seropositive cases demonstrated a significantly increased level of anti-SARS-CoV-Y antibody (۵.۰۸ ± ۴.۰) vs. ۳.۴۹ ± Y.۴۱ COI, P = ۰.۰۰۲). Conclusions: Our findings revealed that the mean level of the anti-SARS-CoV-Y IgG antibody was significantly increased in the seropositive individuals after Y .months of follow-up

# کلمات کلیدی:

Seroprevalence, Antibody, IgG, SARS-CoV-Y

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1700775

