

عنوان مقاله:

Association of SARS-COV-Y Cycle Threshold Values with Clinical and Epidemiological Features of Children and Adolescents in Iran

محل انتشار:

مجله بين المللي كودكان, دوره 10, شماره 6 (سال: 1401)

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خلاصه مقاله:

Background: The associations between the epidemiological, clinical, and serological features of coronavirus disease ۲-۱۹ (COVID-۱۹) and the nasopharyngeal viral load have not, yet, been understood completely. Methods: This crosssectional single center study of outpatient children and adolescents was conducted between January and March Y°Y1. Reverse transcriptase polymerase chain reaction (RT-PCR) of nasopharyngeal swab specimens was positive for SARS-CoV-Y. Nasopharyngeal Cycle threshold (Ct) values were measured for all patients considering different clinical features, age, and sex, in presence of covid-19 specific serum antibody. Results: The data of Yo individuals with confirmed COVID-19 were analyzed (mean (range) age: 9.5 (Δ-1F) years; ٢9 females (F1%)). Sixty-four children (91.F%) were symptomatic at the time of sampling (mean time of symptom onset, ٣.٩ days). There were no differences in mean Ct values between the symptomatic and asymptomatic patients (٣١.۴ vs ٢٨.٨, p=o.YFY). Ct values were significantly lower in cases with diarrhea (p=∘.∘۴F) and younger children (p=∘.∘۳). No correlation was found between Ct values and gender (p=o.F\Δ). Serum antibody was measured in YΔ (٣5%) patients. Presence of antibody was not associated with Ct values (p=o.1Y1). Fifty-nine cases (AF. 8%) reported exposure to a SARS-CoV-Y positive household. Conclusions: Higher nasopharyngeal Ct values, suggesting lower virus load, are related to older age, but there is no difference in Ct values between genders. Considering that diarrhea may predict lower Ct values in the respiratory system, the importance of early quarantine of children with atypical symptoms (such as gastrointestinal symptoms) or children in contact with a confirmed COVID-19 family member is highlighted

کلمات کلیدی:

Children, viral load, COVID-19, SARS-CoV-Y, cycle threshold, Diarrhea

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