

عنوان مقاله:

The Cytokines Responses against Parvovirus B19 in Miscarriage Women and the Susceptibility of their RhD Blood Type to Contract Parvovirus B19 in South of Iraq

محل انتشار:

مجله گزارش های بیوشیمی و زیست شناسی مولکولی، دوره 10، شماره 3 (سال: 1400)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

Background: Parvovirus B19 (B19) infection is linked with various diseases. Cytokines play critical roles in cellular response to viral infection. It has also been reported that's susceptibility of the ABO blood type people to several viral infection. In this study, we evaluated interleukin 6 (IL-6), interleukin 8 (IL-8), and interferon gamma (IFN-γ) levels in aborted women infected with parvovirus B19 (B19+/Abr+) and uninfected with B19 (B19-/Abr+) in comparison with healthy women (B12-/Abr-) and susceptibility of their RhD blood type to contract B19. Methods: B19+/Abr+ were diagnosed using IgM and IgG antibodies against B19, and the concentrations of IL-6, IL-8, and IFN-γ were determined using enzyme-linked immunosorbent assay (ELISA) test in both B19+/Abr+, B19-/Abr+, and B19-/Abr-. Here, we also collected blood groups, number of abortion, and gestational ages from ۲۰۰ B19+/Abr+ along with the same number of B19-/Abr+ and B19-/Abr-. Results: The levels of IFN-γ were higher in serum of B19-/Abr+ and B19+/Abr+ group in comparison to B19-/Abr-, while the serum levels of IL-6, IL-8 were increased in B19+/Abr+ group in comparison to B19-/Abr+ and B19-/Abr-. Our analyzed data also showed that aborted women with RhD+ are more susceptible to contract s B19 than people with RhD- blood type. Conclusions: B19 infection may differently modulate the amount of cytokines in the plasma of aborted women. So, it can be suggested that IL-6, IL-8, and IFN-γ potentially useful as markers for inflammation intrauterine. The susceptibility/protection of aborted women against B19 might be determined based on RhD blood type.

کلمات کلیدی:

.Aborted women, IL-6, IL-8, IFN-γ, Parvovirus B19, RhD blood type

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