

عنوان مقاله:

The Effects of Royal Jelly on the Pro-Inflammatory Innate Immunity Cytokines in Patients Infected with Hepatitis B Virus and Its Antiviral Activity

محل انتشار:

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نویسندگان:

Maryam Naghib - *Department of Microbiology, Kerman Branch, Islamic Azad University, Kerman, Iran*

Ashraf Kariminik - *Department of Microbiology, Kerman Branch, Islamic Azad University, Kerman, Iran*

Mahammad Arababadi - *Immunology of Infectious Diseases Research Center, Research Institute of Basic Medical Sciences, Rafsanjan University of Medical Sciences, Rafsanjan, Iran*

Farokh Rokhbakhsh-Zamin - *Department of Microbiology, Kerman Branch, Islamic Azad University, Kerman, Iran*

خلاصه مقاله:

Introduction: Innate immunity cytokines conduct significant functions in the stimulation and induction of liver complications in Hepatitis B infected patients. It has been reported that Royal Jelly (RJ) has important roles in decreasing the pro-inflammatory cytokines in both in vitro and in vivo conditions. This project aimed to investigate the impacts of 1 month RJ administration on interleukin 1 beta (IL-1 β), tumor necrosis factor-alpha (TNF- α), and interleukin 6 (IL-6) serum levels in the Hepatitis B patients. **Materials and Methods:** In this research, 30 Hepatitis B cases (patients) were entered in order to be under the treatment of RJ for 1 month. Before and after treatment with RJ, Hepatitis B Virus (HBV) copy numbers were evaluated using Real-Time PCR and IL-1 β , TNF- α , and IL-6 serum levels were evaluated using the ELISA technique. **Results:** The RJ treatment significantly reduced the number of HBV-DNA copies and led to down-regulation of TNF- α and IL-6, which were not substantial. The IL-1 β , TNF- α , and IL-6 serum levels were not changed after RJ treatment in both men and women. **Conclusions:** Based on the findings of the present study, it seems that RJ plays anti-viral and anti-inflammatory roles in the in vivo conditions in infected patients with HBV.

کلمات کلیدی:

Royal Jelly, IL-1 β , TNF- α , IL-6, Hepatitis B

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