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# Correlation between IL-6 concentration and TNF-α with the stages of infection for patients infected with HSV-1 and the control group

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**Abstract:**It aims to Evaluationthe level of IL-6 concentration and TNF-α with the stages of infection for patients infected with HSV-1 and the controls. **Methodology:**The study was conducted at Hakim General Hospital and Al - Sadr Teaching Hospital. was divided the number of samples that have been collected 64 samples from patients with herpes simplex virus type I by 32 blood samples during the primary infection and recurrent and 32 blood samples after recovery from of infection as well as 16 blood samples collected from healthy donors and promised as a control groupand carried her diagnosis specific of Immunoglobulin IgM and IgG HSV-1.The statistical analysis, by using (statisticalpackage for socialsciences) SPSS and one way ANOVAtest. The least significant difference was calculated at the level P<0.05.**Results**:The results were obtained, and there was a significant increase (P <0.05) the level between concentration of interleukin -6 and TFN-α in patients during primary and latent infection compared with the control group.**Conclusion:**Increase the level of interleukin -6 and TNF-αplays an important role in the resistance to the virus during primary infection and maintain the Status latent virus. **Recommendation:**Study detection of herpes simplex virus type I in patients with thyroid and know the level of some cytokines.
**Keywords:** Herpes Simplex Virus -1 , Interleukin-6,TNF-α ,cold sore infection.



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