

The role of immune response in immunocompromised conditions

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Abstrak

A patient is said to be immuno-compromised (1C) if one or more of his or her natural and adaptive defense mechanisms are unable to function normally. Thus, immuno-compromised patients are easily susceptible to infection. Aim of study; to determine the immune response in immuno-compromised patients that makes them easily susceptible to infection. Method: the study was designed as a cross-sectional analytic observational study using multi-variant statistical tests. The samples were classified into the 1C and Non-iC groups, consisting of 14 people, 10 men, and 4 women, who were examined for the following immunological variables: IL-10, IFN- γ , TNF- α , IL-1& IgG, C3, and C4. The results demonstrated a significant difference in the immune response of subjects from the 1C and NIC groups ($p < 0.05$), with a significantly higher TNF-Ct, IL-10 and IgG levels, and a lower C3 level in the 1C group. Conclusion: during 1C conditions, there is a disorder in the natural as well as adaptive C3 natural immune system, making patients more susceptible to infection.