

عنوان مقاله:

Immunological Evaluation of Individuals Infected with *Acinetobacter baumannii*

محل انتشار:

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خلاصه مقاله:

Acinetobacter baumannii (*A. baumannii*) is a spherical rod-shaped Gram-negative non-lactose fermenting (Coccobacilli, Aerobic bacteria) bacteria. It is a member of the Moraxellaceae family. *A. baumannii* is a pathogenic, opportunistic organism that infects humans in society and hospitals. In particular, patients with immune system defects are at risk, especially those with burn infections and those hospitalized in intensive care (ICU). It plays a vital role in many illnesses, including septicemia, pneumonia, meningitis, soft tissues, skin infection, endocarditis, and urinary tract infection (UTI). The current study included immunological evaluation of infection with *A. baumannii*. In the current study, 150 blood samples were obtained as follows: 100 blood samples were collected from infected individuals with *A. baumannii* admitted to hospitals in Baghdad. Fifty blood samples were obtained from healthy individuals and considered as the control. 10 ml of blood samples were collected from the venous blood of the participants. *A. baumannii* was collected and isolated from infected patients and diagnosed by traditional methods, using different culture media (MacConkey agar, blood agar, and Chromogenetic agar) and by biochemical assays, then the bacteria diagnosis was confirmed using the VITEK 2 ID-GN cards. Microscopic examination and culture diagnosis of bacteria were conducted, and the diagnosis was confirmed by complete biochemical examinations using VITEK2 Compact System. Assessments included the serum level of IL-17A and TNF- α for hospitalized patients infected with *A. baumannii*. The study recorded a significant increase in the serum level of IL-17A for patients infected with *A. baumannii* (479.83 \pm 26.21 pg/ml) compared to control subjects (69.37 \pm 4.53 pg/ml). The recorded data showed a significant increase in the serum level of TNF- α for patients infected with *A. baumannii* (98.05 \pm 28.89 pg/ml) compared (to control) (1.40 \pm 25.12 pg/ml).

کلمات کلیدی:

IL-17A, TNF- α , *Acinetobacter baumannii*

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