

ESTIMATION OF HISTAMINE AND LEUKOTRIENE D4 AS INFLAMMATORY MARKERS IN PATIENTS WITH ASTHMA

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ABSTRACT

This study aimed to estimate the concentrations of histamine and leukotriene D4 by ELISA in patients with asthma, and to indicate the relationship between the disease and the gender in Babylon province, Iraq. Results revealed that there was a significant difference ($p < 0.05$) in concentration of histamine (ng/ml) between males and females of patients in 21-40 years group. No significant differences were found between both sexes in 1-20 and 41-60 years groups. Meantime, the results illustrated that both males and females showed no significant differences ($p < 0.05$) in concentration of leukotriene D4 (ng/ml) in all age categories. Furthermore, the study revealed that the concentration of leukotriene D4 showed significantly increase ($p < 0.05$) in the first and second age groups compared with the third age group of patients and healthy individuals. The results displayed that there was decrease ($p < 0.05$) in the level of histamine in first and third age categories of patients in comparison with control group, also there was no significant differences in levels of this inflammatory mediator between groups of patients.

KEYWORDS: Patients, Asthma, Leukotriene D4, Histamine, ELISA