Zyrtec influence on cytokine levels in experimental anaphylactic shock and Arthus and Ovary phenomena

T.R. Aliyeva
Azerbaijan Medical University, Baku, Republic of Azerbaijan

Aim: To study the effect of anti-allergic drug Zyrtec (cetirizine dihydrochloride, blocker of histamine H1-receptors) on the level of IL-4 and IL-6 in the blood of mice with experimental allergic reactions to horse serum — anaphylactic shock and Arthus and Ovary reactions. Concentrations of IL-4 and IL-6 were assessed by ELISA. The results of the control animals showed that by the time of induction of anaphylactic shock and Ovary reaction the levels of both cytokines, IL-4 and IL-6, increase, but under the Arthus reaction IL-6 level increases, while the level of IL-4 decreases. Under the influence of Zyrtec levels of IL-4 and IL-6 were reduced in all groups. Reduction in the concentration of IL-4 was more pronounced than the IL-6. (Cytokines and Inflammation 2012. Vol. 11. № 4. P. 41–44.)

Key words: anaphylaxis, Arthus phenomenon, Ovary phenomenon, interleukin-4, interleukin-6, Zyrtec.