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Microchimerism in chronic idiopathic urticaria

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Chronic urticaria is defined as hives, typically occurring daily, for greater than 6 weeks duration. Autoimmunity is the most emphasized etiopathogenetic factor. Microchimerism is the existence of an allogeneic DNA in a living creature. The most frequent sample is fetomaternal cell trafficking during pregnancy. Hematopoietic cell, solid organ transplantation and blood transfusion are iatrogenic causes. There are variable studies investigating the role of microchimerism on the etiopathogenesis of autoimmune diseases. To our knowledge, no report has investigated the relationship between the microchimerism and Chronic Idiopathic Urticaria (CIU). We aimed to investigate the possible role of microchimerism on the CIU as an autoimmune skin disease. We analysed SRY gene as an indicator of fetal microchimerism in our patient and healthy control groups. Patients were 31 women with chronic urticaria over 18 years old who had applied to our clinic between 2011–2014. Patients divided into two groups as group 1 with 16 patients having son and group 2 with 15 patients being nullipar or having daughter. Control women are also divided into two groups according to having or not having son as Group 3 (n=51) and Group 4 (n=52) respectively. A total of 31 patients, 8 of them (25, 8)% and 4 of 103 control women (3, 9)% showed SRY gene presence. The difference between patient and control group was statistically significant ($p < 0.01$). As result of our study, microchimerism may be associated with the etiopathogenesis of chronic idiopathic urticaria. But we think there is a need for larger series of studies to support this hypothesis.

Biography

Belma Tursen has completed his dermatology resident period at the age of 25 years from Dışkapı Health Training and Education Hospital and post-resident studies from Mersin State Hospital. She is the dermatologist of Mersin State Hospital, a Government organization. She has published more than 20 papers in reputed journals and serving as an editorial board member of repute. She is also a general secretary of INDERCOS Congress (International Dermatology and Cosmetology Congress) and also she is a member of th board of Mersin Dermatology and Cosmetology Association.

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