To the editor:

Chronic Inducible Urticarias (CIU) including mainly symptomatic dermographism (SD) are heterogen disorders which are commonly seen, generally not life threatening however negatively effecting quality of life. In most situations, the disease aetiology is unclear which has an important role in treatment failure. Although they are not commonly accepted, there are some hypothesis for the role of IgE in dermographic urticaria. It was showed that dermographism might be passively transferred to the skin of healthy individuals and it was attributed to an IgE-mediated immune reaction [1]. It was shown that the rate of dermographism is higher in atopic children as compared with healthy controls [2]. Increased IgE levels in patients with SD, compared to healthy control group may be associated with mediator release and this leads to an increase in receptor expression and can be a reason for increase in excitability of cutenous and bronchial tissues [3]. Bronchial asthma is characterized by inflammation of the lower respiratory tract leading to hyperactivity and a variable degree of reversible airway obstruction. Elevated serum IgE is a sign of atopy, and causes bronchial hyperactivity in atopic individuals. Omalizumab is a monoclonal IgG anti-IgE antibody, which has been approved for its use in severe asthma. Although the use of omalizumab has been reported to improve Dermatology Life Quality Index (DLQI) in patients with chronic urticaria, its effectiveness has not been widely studied in patients with physical urticaria.

We retrospectively retrieved our records and identified five patients who had used omalizumab due to allergic asthma and co-existing physical urticaria (symptomatic dermographism) which can not be controlled first and second generation high dose antihistaminic drugs. Patients received initial omalizumab treatment at a dose of 150 to 300 mg/month for 16 weeks. DLQI was measured before and after three months of omalizumab treatment [4]. There were 3 female and 2 male patients (mean age, 28.4 ± 10.1 years). All patients laboratory tests were in normal limit. One patient received omalizumab for 2 months and the remaining completed initial omalizumab treatment. In addition to allergic asthma and physical urticaria, one patient has contact dermatitis and one patient has atopic dermatitis. Allergy scin prick tests were positive for house dust mite mix in all patients. Life quality of all patients was promingly improved and DLQI scores were observed to significantly decline following omalizumab treatment (17.8 ± 4.4 vs.4.8 ± 2.2; p<0.05)

It was shown that anti IgE treatment was effective in patients with symptomatic dermographism. [5] Although, the diagnosis of CIU was established by standartized provocation tests, probable triggering and/or associated factors (psychic factors, atopy, thyroid diseases, diabetes, menopause, existence or history of infectious and/or other systemic diseases, drug reaction etc) were not mentioned in previous studies.

Beneficial effectiveness of anti-IgE treatment in both allergic asthma and physical urticaria, as seen in our cases, shows that IgE has a central role in the pathogenesis of both disorders, at least in some cases. Whether anti-IgE treatment is more effective in some types of urticaria or some condition associated with urticaria (atopic asthma etc) remains to be answered.

In conclusion, effectiveness of omalizumab treatment in both asthma and physical urticaria may be a clue for the presence of broncho-cutaneous hyperreactivity.

References