

[Circulating immune complexes, specific IgE against food and inhalation allergens, serum histamine levels and disorders of intestinal permeability in atopic patients before and after test meals]

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Abstract

Specific IgE antibodies against 25 food and 3 respiratory allergens were investigated in 35 AD patients and 26 healthy controls before and after challenge meals (CM). The frequency of positive results showed a significant increase after CM (+ 58%) with no influence on reaction specificity. Increased serum CIC levels with IgG, IgE and IgM were recorded in 34, 47 and 54% of the 35 AD patients respectively, whereby only the IgE-CIC demonstrated an increase of frequency and mean levels after CM. In 4 out of 5 atopic patients, significant higher histamine values were registered half an hour after CM, furthermore 23 out of 61 fasted patients demonstrated increased serum histamine levels. However, no direct correlation could be noticed between the increased intestinal permeability of the investigated patients on the one hand and the serum histamine levels or the presence of IgE-CIC on the other hand. The relations between single parameters as well as their clinical significance in AD patients after CM administrations are discussed.