PP101

Recurrent anaphylaxis in a patient with LTP syndrome

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Background: Lipid transfer proteins are a wide spread family of food allergens. Sensitization usually occurs through the consumption of LTP containing food and the primary sensitizer usually is peach. The marker of LTP syndrome is an elevated level of peach LTP - Pru p 3, in some cases mugwort LTP - Art v 3. The disease is often variable and unpredictable.

Report: Patient, 38, female, was admitted to the Department of Allergology, Clinical Immunology and Internal Diseases in December 2015 because of recurrent symptoms of anaphylaxis: swelling of the upper and lower limbs, edema of both eyelids, lips and tongue, with shortness of breath and increased heart rate. Only in 2015, she experienced 4 anaphylactic reactions after eating poppy seed, sunflower seed and peach. In 2013 Polycheck found elevated level of IgE specific to peach (5,5 kU/l), apple (10 kU/l), rye flour (2,7 kU/l), wheat flour (0,39 kU/l). During hospitalization we performed skin prick test, spirometry, established the level of asIgE directed against selected allergens and the level of IgE directed against allergen components using ImmunoCap ISAC. SPT were positive to weed, Artemisia vulgaris, cat, birch, alder, carp, strawberry, wheat and rye flour. Patient had elevated level of IgE specific to rye flour - 1.38 IU / ml and peach - 2.02 IU / ml, but the level of specific IgE against wheat flour and apple was <0.35 IU / ml. In ImmunoCap ISAC we found elevated levels of IgE directed against nsLTP from different plant sources: rAra h 9 - 7 ISU-E, rCor a 8 - 2 ISU-E, nJug r 3 - 4,7 ISU-E, rPru p 3 - 6,3 ISU-E, nArt v 3 - 1,4 ISU-E, nOle e 7 - 1,4 ISU-E, rPla a 3 - 3,4 ISU-E. Thye level of IgE directed against all other allergen components available in ISAC were not elevated.

Clinical Relevance of Report: Results of ImmunoCap ISAC changed the way we interpret this case. Before the results it was possible to suspect pollen-food syndrome, although it was not consistent with the clinical picture. In ImmunoCap high levels of IgE specific to Pru p 3 and Art v 3, markers of LTP syndrome, allow as to diagnose patient with this disease. We explained the nature of the disease and the need to carry rescue kit containing epinephrine in auto-syringe. This patient could benefit from Pru p 3 immunotherapy.

Statement of Consent for Presentation and Publication: Patient consented to the publication of this abstract.