Significance of Serum Specific IgE Food Panel Interpretation in Identifying Potential Food Allergies in Children; A retrospective cohort.

Kaity Fashho, M.D, Matthew Garber, M.D, FAAP and Ejaz Yousef, M.D.

Background

- The prevalence of food allergy in children in the US is 5.6 million children under age 18.
- For the past decade, non-allergists have increasingly used serum specific IgE-mediated (SSIgE) food allergy tests.
- Diagnosis is established by a combination of the clinical history and allergen-specific testing.
- The interpretation of IgE sensitization tests can be challenging in the absence of a clear history of an allergic reaction.

Objective

We sought to determine the most common allergens tested for and investigate the accuracy of using SSIgE food allergy testing in diagnosing primary food allergies.

Methods

- This was a retrospective review of pediatric patients (n=647) seen in the allergy clinic who had positive SSIgE testing done by non-allergists between 2008 and 2018.
- Oral challenge was used as the gold standard to compute the 5 most common allergens.
- Kruskal-Wallis test was used to compare the median age of patients with true/false positives and negatives.
- Pairwise comparisons of true and false positives were performed.

Serum specific lgE testing to diagnose food allergies

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Results with SSIgE







Discussion and conclusion

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Test characteristics for IgE testing of the 5 most common allergens

• SSIgE food allergy testing, while sensitive, has poor specificity. • In our sample, the PPV of all 5 allergens was less than 20%, meaning that 80% of children who tested positive for these allergens were not allergic.