

Seasonal Allergy Testing

Optimized testing



What is the optimal number of allergens for seasonal allergy panels focused on tree, weed, grass, and mold allergens?



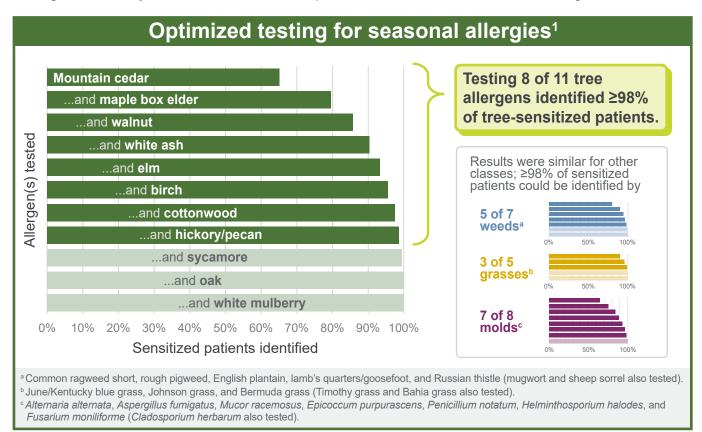
Background

Diagnosing the cause of seasonal allergies may involve testing for many allergens, which may be both impractical and costly. A test panel consisting of a combination of specific allergens may help address these issues, but the optimal number and combination of allergens is unclear due to limited national data.



Methods and Results

The study population consisted of patients (n=5,379) who were tested for specific seasonal allergies (ie, presence of IgE to allergens) at a large US clinical reference laboratory in 2019. Testing data were retrospectively analyzed to determine the minimum number and species of tree, weed, grass, and mold allergens to identify at least 98% of sensitized patients for each of these classes of allergens.





A seasonal allergy test panel consisting of at least 23 allergens would identify ≥98% of patients sensitized to one or more of those allergens. This finding may help optimize testing for seasonal allergies.

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Kwong KY, Chen Z, Scott L, Hilborne LH. Optimizing identification of allergic sensitization to seasonal inhalant allergens in the USA: implications for constructing optimal panels to evaluate patients with allergy. *Int Arch Allergy Immunol.* 2024 May 23:1-8. doi: 10.1159/000538420