

Setting the Standard

ImmunoCAP™ Specific IgE Sesame Seed Allergen Component*




Testing with whole allergen and allergen components provides additional information that can help diagnose allergy more precisely, allowing for a more comprehensive management plan.^{1,4,5}

Did you know?

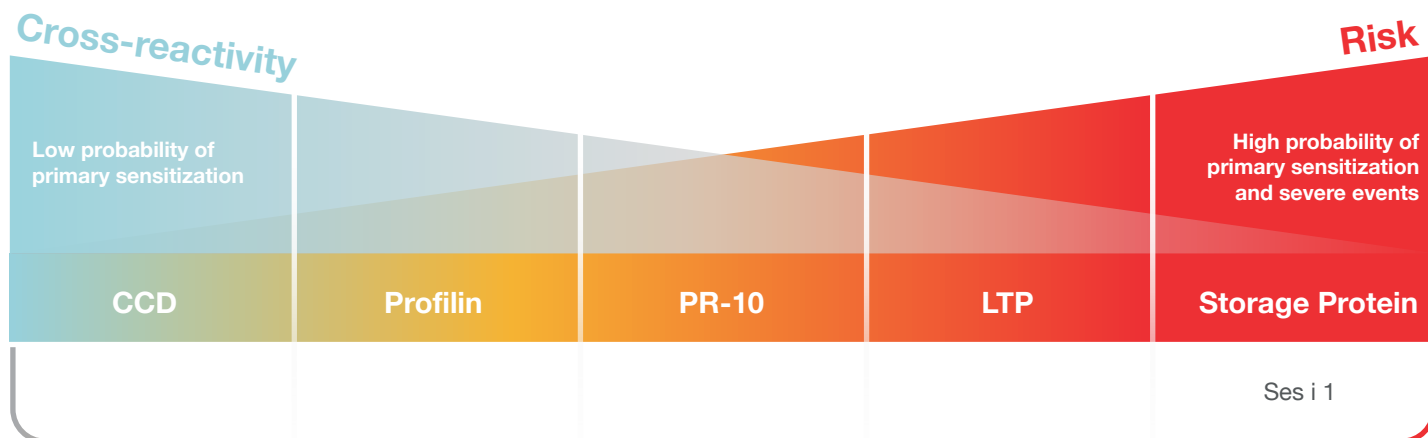
Sesame allergy can cause allergic symptoms with the highest severity?^{2,10}

Component resolved diagnostic testing using Ses i 1 component can help identify primary sesame sensitization and assess risk of severe reaction.¹⁻⁷

Testing with sesame component can help to:¹⁻⁷

-  Assess risk for systemic allergic reactions
-  Improved diagnosis and management
-  Aid in diagnosis of sesame seed allergy

Characteristics of individual proteins^{1-5,8}



Characteristics of Ses i 1:^{2,4-8}

- Ses i 1 is the major protein of sesame seed
- Associated with **HIGHER RISK** of systemic reaction including anaphylaxis
- Sensitization to Ses i 1 is nearly always associated with clinical sesame allergy

Management considerations^{2-7,9}

Sesame Seed

Ses i 1

+	+	<p>If clinical symptoms are present, high probability of clinical sesame allergy and severe, systemic reactions.^{2,5} Patient likely to react to Oral food challenge (OFC).^{3,5,8} Consider other co-sensitizations (e.g. peanut and tree nuts).⁷⁻¹⁰ Consider the following:⁶</p> <ul style="list-style-type: none"> • Avoiding contact or consumption of sesame seed and sesame products • Prescribing epinephrine auto-injector • Making family, colleagues, and teachers aware of the allergy and have a plan
+	-	<p>If clinical symptoms are present, consider further investigation to identify the primary allergen by investigating what other allergens your patient is exposed to. It's possible that cross reactivity is the cause of symptoms.⁷⁻¹⁰ Consider the following:</p> <ul style="list-style-type: none"> • Further testing for tree nuts and seeds. OFC with a specialist may be recommended^{3-5,7,8} • If patient passes an OFC, foods prepared with or around sesame may be consumed • Prescribing epinephrine auto-injector
-	-	<p>If there are no clinical symptoms and no detection of specific sIgE, primary sesame allergy and severe reactions are unlikely. OFC with a specialist may be recommended.^{3-5,7,8} Consider the following:</p> <ul style="list-style-type: none"> • If patient passes an OFC, foods prepared with or around sesame may be consumed

Note: As in all diagnostic testing, any diagnosis or treatment plan must be made by the clinician based on test results, individual patient history, the clinician's knowledge of the patient, as well as their clinical judgment. Patients can be sensitized to more than one allergen component.¹

“
It has been a challenge for clinicians and parents to determine if a child is truly allergic to sesame”¹¹

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*Official product names mentioned within this document: ImmunoCAP Allergen f10, Sesame seed; ImmunoCAP Allergen 1449, Allergen component rSes i 1 Sesame seed

References

1. Kleine-Tebbe J, Jappe U. Molecular allergy diagnostic tests: development and relevance in clinical practice. *Allergologie select.* 2017;1 (2):169-1893.
2. Pastorello EA, Varin E, Farioli L, Pravettoni V, Ortolani C, Trambaioli C et al. The major allergen of sesame seeds (*Sesamum indicum*) is a 2S albumin. *J Chromatogr B Biomed Sci Appl.* 2001;756(1-2):85-9
3. Yanagida N, Ejiri Y, Takeishi D, Sato S, Maruyama N, Takahashi K et al. Ses i 1-specific IgE and sesame oral food challenge results. *J Allergy Clin Immunol Pract.* 2019;7(6):2084-86.
4. Sato S, Yanagida N, Ebisawa M. How to diagnose food allergy. *Curr Opin Allergy Clin Immunol.* 2018;18(3):214-21.
5. Foong RX, Dantzer JA, Wood RA, Santos AF. Improving Diagnostic Accuracy in Food Allergy. *J Allergy Clin Immunol Pract.* 2021;9(1):71-80.
6. Nachshon L, Goldberg MR, Levy MB, Appel MY, Epstein-Rigbi N, Lidholm J, et al. Efficacy and Safety of Sesame Oral Immunotherapy – A Real-World, Single-Center Study. *J Allergy Clin Immunol Pract.* 2019;7:2775-81.
7. Maruyama N, Nakagawa T, Ito K, Cabanos C, Borres MP, Movérare R et al. Measurement of specific IgE antibodies to Ses i 1 improves the diagnosis of sesame allergy. *Clin Exp Allergy.* 2016;46(1):163-71.
8. Saf S, Sifers TM, Baker MG, Warren CM, Knight C, Bakhl K et al. Diagnosis of Sesame Allergy: Analysis of Current Practice and Exploration of Sesame Component Ses i 1. *J Allergy Clin Immunol Pract.* 2020;8(5):1681-88.
9. Tuano KT, Dillard KH, Guffey D, Davis CM. Development of sesame tolerance and cosensitization of sesame allergy with peanut and tree nut allergy in children. *Ann Allergy Asthma Immunol.* 2016;117(6):708-10.
10. Brough HA, Caubet JC, Mazon A, Haddad D, Bergmann MM, Wassenberg J et al. Defining challenge-proven coexistent nut and sesame seed allergy: A prospective multicenter European study. *J Allergy Clin Immunol.* 2020;145(4):1231-39.
11. NIH Researchers Estimate 17% of Food-Allergic Children Have Sesame Allergy [Internet]. National Institutes of Health (NIH). 2021 [cited 2021 Oct 29]. Available from: <https://www.nih.gov/news-events/news-releases/nih-researchers-estimate-17-food-allergic-children-have-sesame-allergy#:~:text=Only%20an%20estimated%20%25%20to,published%20study%20funded%20by%20NIAID%20>

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