

Asthma and allergy

ImmunoCAP™ Specific IgE tests

ThermoFisher
SCIENTIFIC

Specific IgE testing can support in getting the diagnosis right the first time for patients with allergic rhinitis symptoms, which can be connected to asthma.¹

Indication

Evaluation of suspected allergy in perennial/seasonal asthma/rhinitis



Global asthma guidelines²⁻⁸

Global and country-specific guidelines recommend testing patients with symptoms of or diagnosis of asthma for allergen sensitization.²⁻⁸

For example: "NICE guidelines recommends testing for aeroallergens to identify triggers after a diagnosis of asthma has been made."⁵



Common perennial/seasonal allergens in asthma⁹⁻¹⁴

Pollen allergens (regional specific)

- Timothy grass (g6)
- Common silver birch (t3)
- Common ragweed (w1)
- Mugwort (w6)
- Olive (t9)

Perennial allergens

- House dust mite (d1)
- Cat dander (e1)
- Dog dander (e5)
- Mould mix (mx1)



References: 1. Demoly P, et al. J. Asthma Allergy. 2022;15:1069–1080. 2. Casale TB, et al. J Allergy Clin Immunol Pract. 2020;8(8):2526-2532. 3. NAEPPCC. 020 Focused Updates to the Asthma Management Guidelines: A Report. J Allergy Clin Immunol 2020;146(6):1217-1270. 4. Nationale VersorgungsLeitlinien (NVL). NVL Asthma 4th edition. Available from: <https://www.leitlinien.de/themen/asthma/4-auflage/kapitel-2>; last accessed December 2022. 5. National Institute for Health and Care Excellence (NICE). Asthma: diagnosis, monitoring and chronic asthma management (NG80). <https://www.nice.org.uk/guidance/ng80>; last accessed December 2022. 6. Global Strategy for Asthma Management and Prevention (GINA) 2022. Available from: <https://ginasthma.org/wp-content/uploads/2022/07/GINA-Main-Report-2022-FINAL-22-07-01-WMS.pdf>; last accessed December 2022. 7. Raheison-Semjen C, et al. Update of the 2021 recommendations for the management and follow-up of adult asthmatic patients under the guidance of the French Society of Pulmonology and the Paediatric Society of Pulmonology and Allergy. Revue des Maladies Respiratoires. 2021;38:1048-1083. 8. Chabane H, et al. Recommendations for the prescription and interpretation of laboratory tests that can be used in the diagnosis or monitoring of allergies, available in France. Part 1: preamble. Revue française d'allergologie. 2021;61:459-478. 9. Burbach G J, et al. GA2LEN skin test study II. Allergy. 2009;64(10):1507-15. 10. Ciprandi G, et al. The POLISMAIL study. Eur Ann Allergy Clin Immunol 2008;40(3):77-83. 11. Bousquet J, et al. In collaboration with the World Health Organization, J Allergy Clin Immunol 2001;108(5):S147-S334. 12. Wickman M. Allergy. 2005;60(s79):14-8. 13. Allen-Ramey F, et al. J Am Board Fam Med (Online). 2005;18(5):434-9. 14. Host A, et al. Allergy 2000;55(7):600-8. 15. Schreiber J, et al. J Allergy Clin Immunol 2019;143(6):2279-2280.e2. 16. Schreiber J, et al. Congress Abstract V529 at DGP 2019. Pneumologie 2019;73(S 01). Georg Thieme Verlag KG Stuttgart · New York. DOI: 10.1055/s-0039-1678315. 17. Lücke E, et al. J Asthma 2023. DOI: 10.1080/02770903.2023.2213327.

Severe asthma and allergen sensitisation

ImmunoCAP Specific IgE tests

Indication

Evaluation of suspected allergy in severe, persistent asthma (GINA Step IV)⁹



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

1st Allergen test profile for severe asthma¹⁵⁻¹⁷

- *D. pteronyssinus* (d1)
- *D. farinae* (d2)
- Cat dander (e1)
- Dog dander (e5)
- *Aspergillus fumigatus* (m3)
- *Candida albicans* (m5)
- Staphylococcal enterotoxin B (m81)
- Moth, *Bombyx mori* (i8)

Sensitivity 94%¹⁶

If 1st test profile is negative, test 2nd allergen profile.

2nd Allergen test profile for severe asthma¹⁵⁻¹⁷

- Horse dander (e3)
- German Cockroach, *Blattella germanica* (i6)
- *Alternaria alternata* (m6)
- Staphylococcal enterotoxin A (m80)
- Storage mite, *Acarus siro* (d70)
- Storage mite, *Blomia tropicalis* (d201)
- Storage mite, *Euroglyphus maynei* (d74)
- Storage mite, *Tyrophagus putrescentiae* (d72)

Sensitivity 99%¹⁶
(combined with 1st profile)

Official product names: ImmunoCAP Allergen d1, House dust mite; ImmunoCAP Allergen d2, House dust mite; ImmunoCAP Allergen d70, Storage mite; ImmunoCAP Allergen d72, Storage mite; ImmunoCAP Allergen d74, House dust mite; ImmunoCAP Allergen d201, House dust mite; ImmunoCAP Allergen e1, Cat dander; ImmunoCAP Allergen e3, Horse dander; ImmunoCAP Allergen e5, Dog dander; ImmunoCAP Allergen g6, Timothy; ImmunoCAP Allergen i6, Cockroach, German; ImmunoCAP Allergen i8, Moth; ImmunoCAP Allergen m3, *Aspergillus fumigatus*; ImmunoCAP Allergen m5, *Candida albicans*; ImmunoCAP Allergen m6, *Alternaria alternata*; ImmunoCAP Allergen m80, Staphylococcal enterotoxin A; ImmunoCAP Allergen m81, Staphylococcal enterotoxin B; ImmunoCAP Allergen mx1, Moulds; ImmunoCAP Allergen t3, Common silver birch; ImmunoCAP Allergen w1, Common ragweed; ImmunoCAP Allergen w6, Mugwort; ImmunoCAP Allergen t9 Olive.

Learn more at thermofisher.com/immunocap