

Grass pollinosis

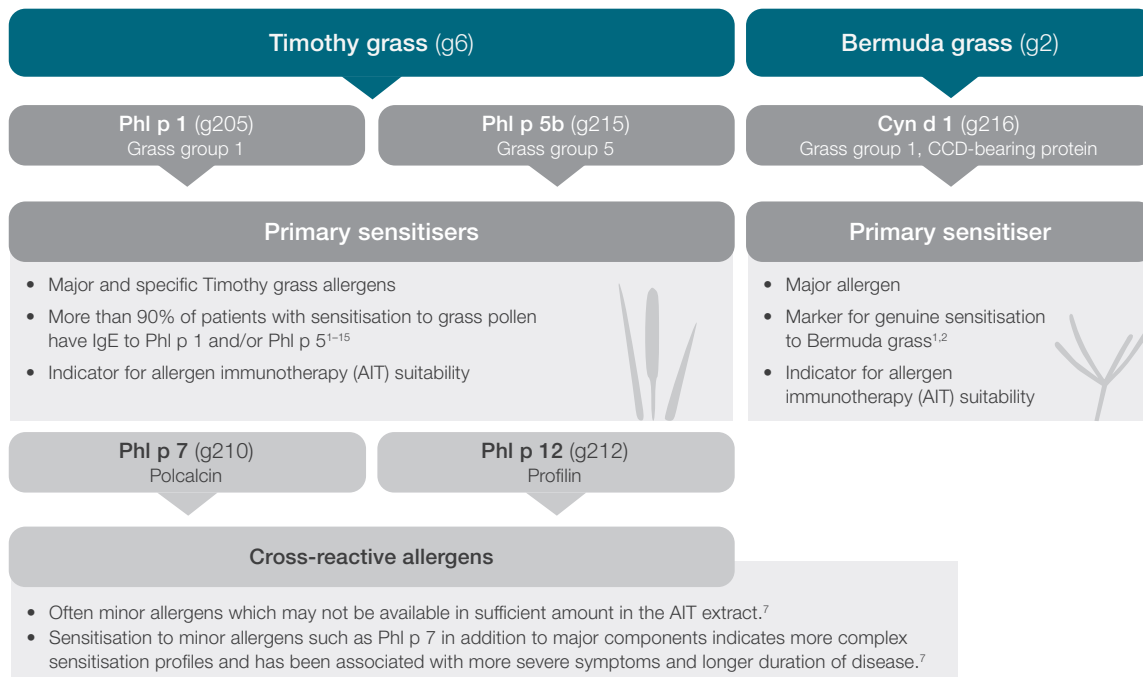
ImmunoCAP™ Specific IgE tests

















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Grass pollen is one of the principal causes of respiratory allergic diseases globally. The IgE reactivity to these allergens is manifested by about 40% of allergic patients and 20% of the general population. Grass pollen season overlaps with weed pollen, in most parts of Europe, but also with tree pollen, especially in southern Europe.¹

ImmunoCAP™ Whole Allergens

ImmunoCAP™ Allergen Components



Whole extract Timothy grass/ Bermuda grass	Primary sensitisers Phl p 1/Phl p 5b	Cross-reactive allergens Phl p 7/Phl p 12*	Primary sensitisers Cyn d 1	Interpreting results*	Management considerations
				<ul style="list-style-type: none"> Primary Timothy grass sensitisation is likely Sensitisation to Phl p 1 usually precedes other grass pollen component sensitisation in the development of rhinitis symptoms¹⁻¹⁵ 	<ul style="list-style-type: none"> Consider prescription of AIT Grass pollen exposure reduction Targeted antihistamines around Timothy grass pollen season¹⁻¹⁵
				<ul style="list-style-type: none"> Primary sensitisation to Bermuda grass is likely when CCD sensitisation is excluded.^{1,2} 	<ul style="list-style-type: none"> Consider prescription of AIT Grass pollen exposure reduction Targeted antihistamines around Bermuda grass pollen season¹
				<ul style="list-style-type: none"> Sensitisation to cross-reactive minor allergens⁷⁻¹⁵ Primary sensitizer should be identified 	<ul style="list-style-type: none"> Consider further investigations to identify the primary allergen Grass pollen exposure reduction Consider targeted antihistamines around grasspollen season⁷⁻¹⁵
				If all components of the algorithm are negative and g6/g2 is positive, the patient could be sensitised to an untested allergen. As such, in the context of clinical history, exposure reduction may still be recommended. ¹	

* Results should always be interpreted in the context of the clinical history. * Profilin (Bet v 2, Phl p 12) and polcalcin (Bet v 4, Phl p 7) from birch and Timothy grass can be used as marker for almost all pollen due to structural similarity.¹⁶

References: 1. Dramburg S, et al. *Pediatr Allergy Immunol* 2023;34(Suppl 28):e13854. 2. Barber D, et al. *Allergy* 2008;63(11):1550–1558. 3. Fuertes E, et al. *J Allergy Clin Immunol* 2023. 4. Barreto, et al. *Front. Allergy, Sec. Allergy Diagnosis* 2023. 5. Sekerkova A, et al. *Allergol Int* 2012;61(2):339–346. 6. Tripodi S, et al. *J Allergy Clin Immunol* 2012;129(3):834–839 e8. 7. Cipriani F, et al. *Allergy* 2017. 8. Hauser M, et al. *Allergy Asthma Clin Immunol* 2010;6(1):1. 9. Schmid-Grendelmeier P. *Der Hautarzt* 2010;61(11):946-953. 10. Focke M, et al. *Clin Exp Allergy* 2008;38(8):1400–1408. 11. Almeida, et al. *Allergologia et Immunopathologia* 2019; Volume 47, Issue 6. 12. Valenta R, et al. *J Investig Allergol Clin Immunol* 2007;17(Suppl 1):36–40. 13. Canonica GW, et al. *World Allergy Organization Journal* 2013;6(1):17. 14. Asero R, et al. *Eur Ann Allergy Clin Immunol* 2012;44(5):183-187. 15. Kleine-Tebbe J and Jakob T. Springer International Publishing Switzerland 2017. 16. Akdis CA, Agache I (Eds.) *Global atlas of allergy* 2014. **Official product names:** ImmunoCAP Allergen g6, Timothy grass; ImmunoCAP Allergen g205, Allergen component rPhl p 1, Timothy; ImmunoCAP Allergen g215, Allergen component rPhl p 5b, Timothy; ImmunoCAP Allergen g210, Allergen component rPhl p 7 Polcalin, Timothy; ImmunoCAP Allergen g212, Allergen component rPhl p 12 Profilin, Timothy; ImmunoCAP Allergen g2, Bermuda grass; ImmunoCAP Allergen g216, Allergen component rCyn d 1 Bermuda grass

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