

Alpha-Gal syndrome

ImmunoCAP™ Specific IgE tests

ThermoFisher
SCIENTIFIC

ImmunoCAP™
Whole Allergens

Pork (f26) +/- Beef (f27)
+/- Lamb (f88)

ImmunoCAP™
Allergen Component

Alpha-Gal (o215)

Good to know







Isolated gastrointestinal (GI) symptoms can be due to sensitisation to alpha-Gal.¹



In a typical alpha-Gal allergic patient:

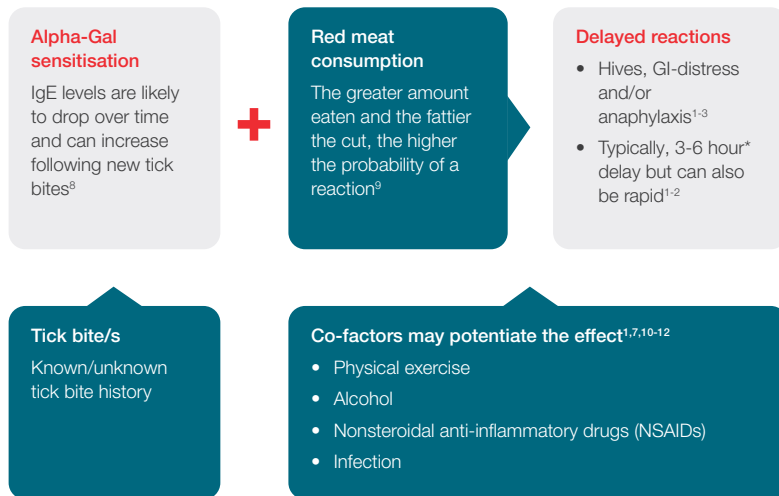
- Diagnosis is supported by IgE to several mammalian meat.²⁻³
- IgE levels to alpha-Gal > IgE to mammalian meat.³⁻⁴

References: 1. Wilson JM, et al. Allergy. 2024 Jun;79(6):1440-1454. 2. Commins SP, et al. J Allergy Clin Immunol. 2014;134:108-15. 3. Kennedy JL, et al. Pediatrics. 2013;131:e1545-52. 4. Hamsten C, et al. J Allergy Clin Immunol. 2013;132:1431-4. 5. Platts-Mills T, et al. J Allergy Clin Immunol Pract. 2020; 8(1): 15-23. e1. 6. Jackson WL. Oxf Med Case Reports. 2018 Feb 21;2018(2):omx098. 7. Dramburg S, et al. Pediatr Allergy Immunol 2023;34(Suppl 28):e13854. 8. Commins SP, et al. J Allergy Clin Immunol. 2011;127:1286-93 e6. 9. Commins SP, et al. Curr Allergy Asthma Rep. 2013;13:72-7. 10. Morisset M, et al. Allergy. 2012;67:699-704. 11. Caponetto P, et al. J Allergy Clin Immunol Pract. 2013;1:302-3. 12. Fischer J, et al. J Allergy Clin Immunol. 2014;134:755-9 e1. **Official product names:** ImmunoCAP Allergen f26, Pork, ImmunoCAP Allergen f27, Beef, ImmunoCAP Allergen f88, Mutton, ImmunoCAP Allergen o215, Component nGal-alpha-1,3-Gal (alpha-Gal) Thyroglobulin, bovine

Red meat	Alpha-Gal	Interpreting results ^{5-7*}
		<p>Interpreting results:* Consider alpha-Gal syndrome (AGS)</p> <p>Management considerations:</p> <ul style="list-style-type: none"> • Avoidance of all mammalian (red) meat • Possible need to avoid milk, gelatin containing food and certain medications • Consider prescribing epinephrine auto injector
		<p>Interpreting results:* Consider a meat allergy due to sensitisation to one or more red meat allergens (beef, lamb, pork)</p> <p>Management considerations:</p> <ul style="list-style-type: none"> • Avoidance of specific sensitised mammalian meat • Consider prescribing epinephrine auto injector • May need to consider testing cross reactive proteins (e.g. milk, pork-cat syndrome)
		<p>Interpreting results:* Consider other clinical factors or findings</p> <p>Management considerations:</p> <ul style="list-style-type: none"> • Consider other clinical factors or findings • Oral food challenge (OFC) with a specialist may be recommended. High likelihood that patient may pass OFC.

* Results should be interpreted in the context of the clinical history

Multiple factors may explain the sudden reactions:



Risk of reaction in AGS:⁵

	Food	Medications / biologic therapies
Higher risk	Beef, pork, lamb, innards	Cetuximab
		Gelatin plasma expanders
		Anti-venom (e.g. CroFab)
Lower risk	Dairy	Bovine/porcine heart valves
		Gelatin-containing vaccines (e.g. Zostavax, MMR)
		Pancreatic enzyme replacement (e.g. pancrelipase)
Lower risk	Gelatin-containing foods	Heparin
		Gelcaps

Adapted from Platts-Mills T et al. *Diagnosis and management for patients with alpha-Gal syndrome. J Allergy Clin Immunol Pract.* .2020; 8(1): 15-23. e1.

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