Ratio analysis

Thermo Fisher

The power of ratio analysis is also supported by INTEGRA publication¹

Clinical suspicion	Respiratory allergy	Allergy to Hymenoptera ve	enom Food aller	gy Anaphylaxis	
Initial diagnosis	Medical history + physical examination + other complementary tests				
Personalised diagnosis of allergy	Diagnostic orientation skin prick test/slgE/intradermal test ²				
	Determination of IgE, 3 levels tlgE / we-slgE / c-slgE*				
	If we-sigE clearly lower than tigE	If we-sigE / tigE relevant and suggestive symptoms	If c-sigE clearly lower than we-sigE	If c-slgE / we-slgE relevant	
	Other allergens involved ¹	Clinical symptoms caused by whole allergen ¹	Other components involved ¹	Clinical symptoms caused by component	

^{*} tlgE: total serum immunoglobulin E, we-slgE: whole extract serum specific IgE, c-slgE: allergen molecule serum specific IgE ("c" stands for "component")



How to include ratios in clinical practice?

Authors recommendations (Delphi validated)1

Ratio 1	we-slgE tlgE	Ratio 2	c-slgE we-slgE			
What to do?	Determine ratio 1 before clinical decision-making.	What to do?	Determine ratio 2 before clinical decision-making			
Why?	To evaluate of the extent sensitisation attributable to whole extract, before clinical decision.	Why?	To determine the involvement of a given allergic component, especially minor allergens			
How? Using the same slgE determination platform in both measurements						

Good to know!

The Delphi method entails use of a group technique that aims to obtain the most valid and reliable consensus from the panel of skillful and knowledgeable individuals by using a series of questionnaires. Delphi studies have been used in educational settings in predicting trends, standards and in forming guidelines.^{3,4}

References: 1. Pascal M, et al. Integration of in vitro allergy test results and ratio analysis for the diagnosis and treatment of allergic patients (INTEGRA). Clin Transl Allergy 2021;e12052. 2. Santos AF, et al. EAAC guidelines on the diagnosis of IgE-mediated food allergy 2023;78:3057-3076. 3. Dalkey, N, et al. Management Science 1963;vol. 9, no. 3, 458–467 4. Green R. Sage Onen 2014.



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