

discussion & consequences

What difference does ImmunoCAP® Allergen component testing make?

- The clinical risk for reactions to egg can be assessed
- Relevant dietary advice is ensured
- Selection of patients for food provocation, avoiding unnecessary food provocations
- By following the specific IgE levels over time with ImmunoCAP® Allergen components, tolerance development to egg can be detected
- Improving the quality of life of the patient and family

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EGG CASE #2
Molecular Allergology



Components are useful for
**following development of
egg tolerance over time**

Charlie, 5 years

background

Previous symptoms:

- Eczema from 3 months of age
- Gastrointestinal symptoms upon egg intake from 1 year of age

Family history:

- Atopic father, pollen allergy to grass

Previous visit	at 1 year	at 3 years
Skin Prick Test results:		
Egg white	+4	+3
ImmunoCAP sIgE results kUA/l :		
Egg white	18	13
Gal d 1 (Ovomucoid)	12	8.2
Gal d 2 (Ovalbumin)	4.1	3.9
Gal d 3 (Conalbumin)	2.4	2.2
Gal d 4 (Lysozyme)	<0.1	<0.1
Diagnosis:	Egg allergy	Egg allergy
Treatment:	Dietary restriction to egg	Dietary restriction to egg remains

current visit

(at 5 years of age)

Anamnesis:

- Eczema and gastrointestinal symptoms have resolved
- No apparent symptoms after accidental intake of egg in the form of sherbet

ImmunoCAP® Allergen component test results

	Results (kUA/l)
Egg white	6.3
Gal d 1 (Ovomucoid)	1.1
Gal d 2 (Ovalbumin)	2.1
Gal d 3 (Conalbumin)	1.5
Gal d 4 (Lysozyme)	<0.1

Doctor's conclusion: The absence of symptoms together with decreasing levels of IgE to Gal d 1 suggests that the egg allergy has resolved

Treatment: Try re-introducing egg into the diet. The doctor performs an oral egg challenge in the clinic, which Charlie passes without any symptoms

Final diagnosis: The egg allergy has resolved

Interpretation of the Allergen component test results

- Decreasing levels of IgE to Gal d 1 over time suggest that Charlie is developing tolerance to egg
- Low levels of sensitization to Gal d 1 indicate tolerance to cooked egg, and suggest that egg may be re-introduced into the diet

