

VENOMS CASE #1



INDICATION FOR DOUBLE OR SINGLE VENOM SIT?

Guilia, 45 years old

BACKGROUND

Guilia 45 years old:

- Stung by an unknown insect in the middle finger of the right hand. After several minutes occurrence of generalized itching, red spots on the trunk, shortness of breath and tightness in the throat. Improvement of symptoms after emergency medical treatment with systemic glucocorticosteroids and antihistamines.

General case history:

- High blood pressure

Conventional diagnostics

- Positive skin prick test: bee venom (100 µg/ml)++, wasp venom (300 µg/ml)++
- Positive ImmunoCAP® test:

ImmunoCAP® test results

Bee venom	i1	5.9 kU _A /l
Wasp venom	i3	1.3 kU _A /l
	i77	1.0 kU _A /l
ImmunoCAP® Total-IgE:		16.7 kU _A /l
ImmunoCAP® Tryptase:		5.4 µg/l

Result interpretation:

- The skin tests as well as the specific IgE-determination depict a double sensitization to bee and wasp venom. A decision cannot be made whether there is a true double sensitization or a cross-reaction. The basal tryptase value is in normal range.
- There is an indication for SIT. It is unclear whether this should be performed with bee and / or wasp venom.

Molecular diagnostics with ImmunoCAP® Allergen components

ImmunoCAP® test results

Bee venom	rApi m 1	4.7 kU _A /l
Wasp venom	rVes v 1	<0.1 kU _A /l
	rVes v 5	<0.1 kU _A /l
	rPol d 5	<0.1 kU _A /l
CCD	MUXF3	1.3 kU _A /l

Interpretation of findings:

- The molecular allergy testing, with the CCD-free recombinant allergens rVes v 1, rVes v 5, rPol d 5 and rApi m 1, shows a high sensitization to the major allergen in bee venom Api m 1, and no sensitization to the major allergens in wasp venom. Specific IgE to cross-reactive carbohydrate determinants (CCD MUXF3) explains the positive test for wasp venom (i3 and i77).

Diagnosis: A specific sensitization to bee venom supporting a bee allergy
 Treatment: According to these findings a SIT with only bee venom is performed



DISCUSSION AND CONSEQUENCES

What difference does ImmunoCAP[®] Allergen component testing make?

- Differentiate between bee and wasp allergy
- Decide the appropriate SIT
- Improve patient management



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