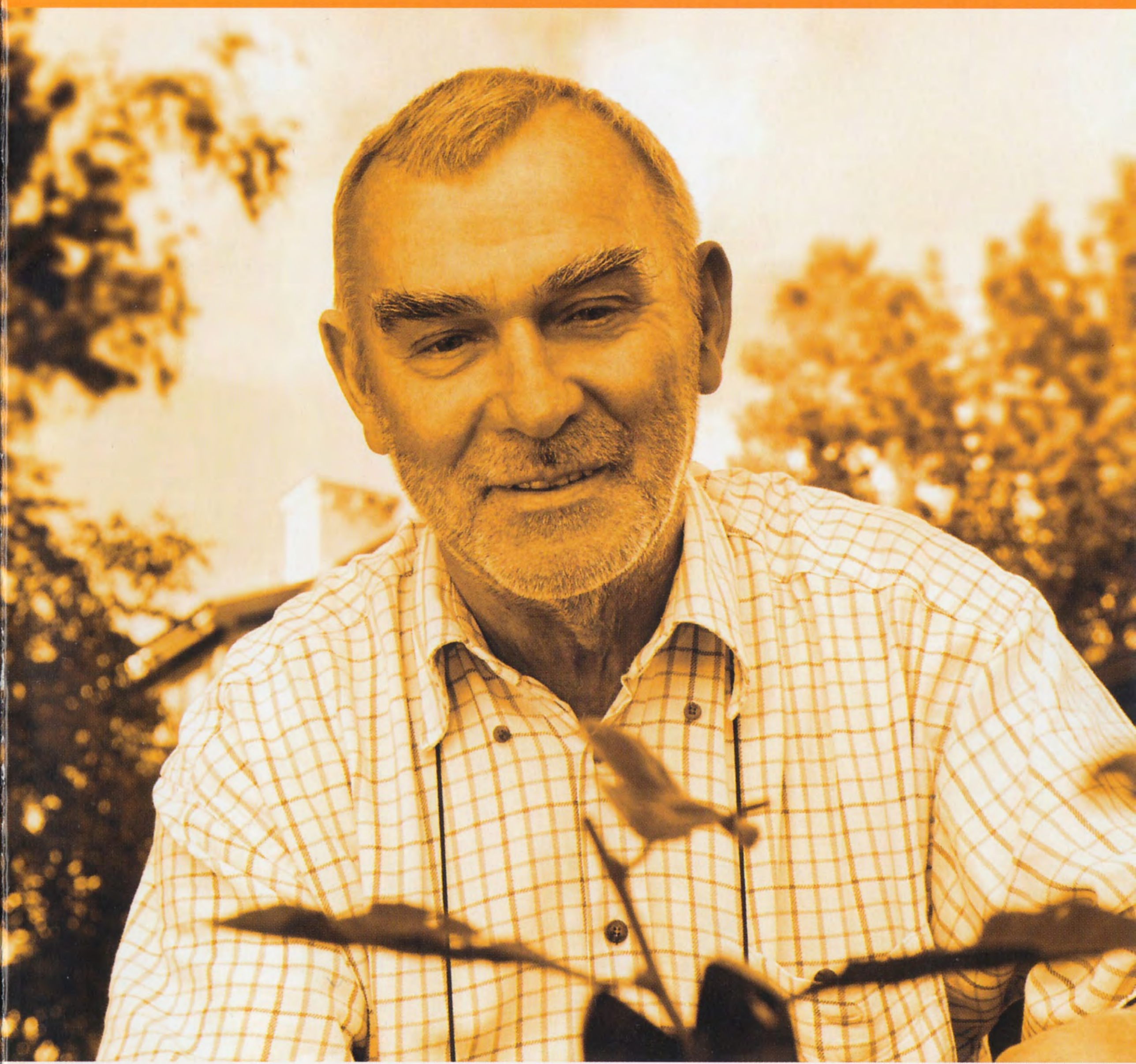
VENOMS CASE #2



INDICATION FOR DOUBLE OR SINGLE VENOM SIT?

Thomas, 68 years old

BACKGROUND

Thomas 68 years old:

- Stung by an unidentified insect in the right shoulder. After about 30 minutes appearance of a general sensation of heat, itching, generalized rash, facial edema, and dizziness. Improvement of symptoms after treatment by a general practitioner with intravenous glucocorticosteroids and oral antihistamine.

Conventional diagnostics

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

	ImmunoCAP® test results	
Bee venom	i1	3.5 kU_A/l
Wasp venom	i3	4.0 kU_A/l
ImmunoCAP® Total-IgE:		460 kU_A/l
ImmunoCAP® Tryptase:		1,1 µg/l

Result interpretation:

- The results of conventional skin testing and insect venom extract based serological diagnosis cannot clarify whether the anaphylactic reaction was caused by a true double sensitization or by 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	3.9 kU_A/l
Wasp venom	rVes v 1	1.1 kU_A/l
	rVes v 5	3.7 kU_A/l
CCD	MUXF3	<0.1 kU_A/l

Interpretation of findings:

- The molecular allergy diagnosis shows a genuine double sensitization to both the specific major allergens of wasp Ves v 1, Ves v 5 and the specific major allergen of bee Api m 1. The positive response to both extract-based tests (i1, i3) is thus not only due to CCD reactivity.

Diagnosis: A double sensitization to bee and wasp venoms supporting true bee and wasp allergies

Treatment: According to these findings a SIT with bee venom as well as with wasp venom is performed

DISCUSSION AND CONSEQUENCES

What difference does ImmunoCAP® Allergen component testing make?

- Clarify whether bee and wasp positivity is due to a true double sensitization or a cross-reaction
- Decide the appropriate SIT
- Improve patient management

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ImmunoCAP® Molecular Allergology

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