

## Sublingual Allergen-specific Immunotherapy, what is new?

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Allergen-specific Immunotherapy (ASIT) is the only causative treatment of atopic dermatitis in dogs.

Subcutaneous application is the traditional route of administration of immunotherapy (SCIT), but recently sublingual (SLIT) and intralymphatic (ILIT) routes have been implemented for this treatment.

Several studies have shown the beneficial effects that Sublingual immunotherapy (SLIT) has on humans and dogs with atopic dermatitis. The first study reporting the SLIT efficacy in cats with hypersensitivity reactions was presented at the ESVD-ECVD congress held September 2019 in Liverpool.

### Study

Twenty-two cats, with clinical signs and dermatological lesions compatible with hyper-sensitivity against mites, were treated with SLIT for six months.

### Result

The treatment induced a significant improvement of clinical signs and reduced pruritus in the hypersensitive cats after an average of three months of therapy.

### Conclusion

Results of this study conclude that SLIT should be considered as a rapid, effective and safe treatment in cats with non-flea non-food induced hypersensitivity dermatitis.

**BattLab** offers sublingual and subcutaneous allergen-specific immunotherapy for your patients. You can choose the route that fits your patients and their owners the best.

### Literature:

*Clinical efficacy of sublingual allergen-specific immunotherapy in cats with non-flea non-food induced hypersensitivity dermatitis against mites. Foj et al. 31 ESVD-ECVD Con-gress 2019 (Liverpool)*



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### Atopic Dermatitis (AD) and Allergen-specific Immunotherapy (ASIT)

The diagnose of atopic dermatitis is clinical and is made in a patient with history and clinical signs of allergic disease after ruling-out ectoparasites, flea allergic dermatitis, food induced allergic dermatitis and control of all secondary infections, which can produce pruritus.

A **serological allergy tests** or intradermal test (IDT) is used to identify the allergens, which the animal is allergic to. Currently, IgE serology is preferred, as only a small amount of blood is needed and the disadvantages are many for the IDT.

Most allergic patients are allergic to more than one allergen, therefore it is recommended to test for groups of allergens (profiles), in order to identify all offending allergens.

As for the IgE serological tests, their reliability depends on two principal points:

- 1) Sensitivity and specificity for the identification of IgE (with lack of cross-reactivity with IgG) and
  - 2) Identification and blocking of cross-reactive carbohydrate determinants (CCD)
- It is shown that false positive results affect the composition of the ASIT and its treatment efficacy.

BattLab IgE serological tests avoid the problem of false positive results by:

- Using the high affinity Fc-ε-receptor test method (Allercept® by Heska) lacking cross-reactivity with IgG
- Using the anti-CCD blocking system

Results of any serological allergy test must always be interpreted with a correlating clinical picture.



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By identifying the offending allergens, the allergen-specific immunotherapy (ASIT) can be produced. **Treatment with ASIT is recommended for atopic dermatitis (AD)**, as it can reeducate the immune response, thereby being the only treatment that can change the course of an otherwise progressing chronic disease.

**Allergen-specific immunotherapy** is a safe and effective long-term treatment, used successfully for AD. According to studies,

success rate ranges from 60-80% and improvements are seen from 2-16 months, so efficacy should be evaluated over a minimum of a 16 months period.

## Allergy Tests at BattLab

### Allergy tests and Profiles

Screening test  
Pruritus profile  
Dermatology profile  
Food allergy profile  
Mediterranean panel  
Perennial panel

### Allergen-specific immunotherapy

ASIT incl. insects  
Sublingual or injectable solutions

### Ectoparasites

Sarcoptes Ab - PCR  
Demodex PCR

### Histopathology

Biopsies, FNA, etc.  
Result after just 3-5 working days

### Microbiology

Bacteriology, Mycology and species  
specific antibiograms

### Dermatologists available

— ready to assist you with your  
dermatology cases —

**admin@battlab.com**