CANINE ATOPY

DR. SAGAR SAHOO

MVSC, VETERINARY SURGERY & RADIOLOGY





@vetsurgeryatease

@vet_essentials



@DrSagarSahoo







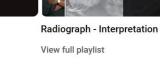




Solved MCQ (Vety. Science)

Private View full playlist

Liked videos



Updated today

(

View full playlist

Field Anes Protocol Updated yesterday

View full playlist

Case Reports View full playlist View full playlist



Vety. Anesthesiology (VSR -Unit 2) Updated yesterday View full playlist



Ð

Canine Diseases

View full playlist

Surgery Practical View full playlist

Ð







PET ANIMAL Care Updated today

View full playlist



General Surgery (VSR Unit 1)

View full playlist



Surgery (Lab Animal)

View full playlist

Abscess

(Under Gene



View full playlist



Surgery (Dog & Cat)

View full playlist

13

-



Surgery (Sheep & Goat)

Updated 4 days ago View full playlist



Surgery (Cattle & Buffalo) Updated 2 days ago

View full playlist

Fourth Edition

Small Animal Dermatology

A Color Atlas and Therapeutic Guide



Keith A. Hnilica • Adam P. Patterson

ELSEVIER

Introduction

- 1. Dysfunction of skin barrier is the main cause of this disease.
- 2. Reaction to environmental antigen (Inhalation or cutaneously)
- 3. Genetically predisposed
- 4. Age 6M to 6Y (typically 1Y-3Y)
- 5. Lifelong disease

Symptoms

- 1. Typically begin as skin erythema & pruritus
- 2. Pruritus may be seasonal or non-seasonal
- Pruritus leads to licking, chewing, rubbing & scratching
- 4. Self trauma may result in secondary skin lesions (crust, hyperpigmentation, lichenification)



FIGURE 7-1 Canine Atopy. Subtle symptoms, including alopecia, erythema, and excoriations on the face, extremities, and flank of an adult Shar pei.



FIGURE 7-2 Canine Atopy. Alopecia with erythema and hyperpigmentation on the ventrum of an atopic dog, demonstrating typical lesion distribution for atopy. Note the similarity in distribution with *Malassezia* dermatitis.



FIGURE 7-3 Canine Atopy. Generalized alopecia and hyperpigmentation in a severely pruritic Labrador. The lesions are especially noticeable on the face, axilla, and flank.



FIGURE 7-4 Canine Atopy. Close-up of the dog in Figure 7-3. The periocular alopecia and hyperpigmentation caused by facial pruritus are typical of allergic disease.

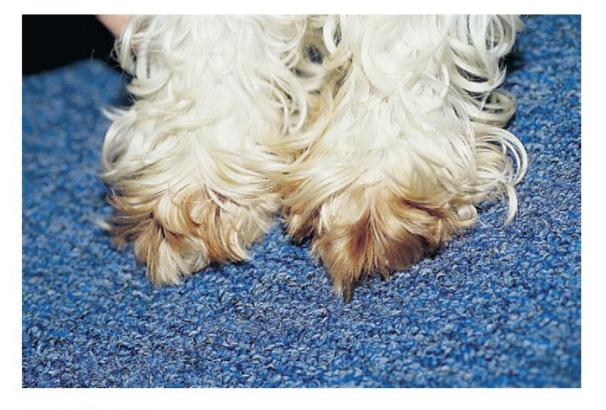


FIGURE 7-7 Canine Atopy. Pododermatitis demonstrating the salivary staining caused by chronic licking.



FIGURE 7-8 Canine Atopy. Pododermatitis with alopecia and erythema affecting the interdigital tissue between the central pad and digits. Pododermatitis and foot pruritus are some of the most consistent findings of atopy.



FIGURE 7-9 Canine Atopy. Pododermatitis demonstrating alopecia, erythema, hyperpigmentation, and lichenification caused by a secondary yeast infection associated with underlying allergic disease.



FIGURE 7-10 Canine Atopy. Alopecia and erythema on the caudal aspect of the distal extremities just proximal to the central footpad is a common finding in allergic dogs.

Differential Diagnosis

Food Allergy
 Scabies
 Malassezia
 Bacterial Pyoderma

Diagnosis

Seasonal Foot Licking Allergy Testing



FIGURE 7-19 Canine Atopy. This intradermal allergy test (IDAT) demonstrates positive reactions with classic erythematous, well-demarcated, raised reactions.



FIGURE 7-20 Canine Atopy. Same patient as in Figure 7-19. This intradermal allergy test (IDAT) demonstrates positive reactions with classic erythematous, well-demarcated, raised reactions. Note the difference between negative and positive reactions.

Treatment – Step 1

1. Control of secondary infection (bacterial & fungal)

Treatment – Step 2

- 1. Getting rid of environmental antigen load **Bathing** in every 2-7 days
- 2. Systemic **anti-histaminics** (can be combined with glucocorticoids & EFAs)
- 3. Essential Fatty Acid supplementation. Beneficial effects are seen after 8-12 weeks (2-3 months)
- 4. **Dextromethorphan** @2mg/Kg PO BD. Beneficial effects are seen within 2 weeks
- 5. Systemic **Glucocorticoids** Prednisolone @0.25-1mg/Kg q24-48hr & Methylprednisolone @0.2-0.8mg/Kg q24-48hr for 3-7 days(avoid long acting steroids and dosage should be tapered)
- Temaril P (Trimeperazine + Prednisolone) @1tab/10-20Kg PO q24-48hr

TABLE 7-1 Antihistamine Therapy in Dogs*

Antihistamine	Dose
Chlorpheniramine	0.2–3 mg/kg PO q 8–12 hours
Diphenhydramine Hydroxyzine	1–4 mg/kg PO q 8 hours 3–7 mg/kg PO q 8 hours
Amitriptyline Cyproheptadine	1–2 mg/kg PO q 12 hours 0.1–2 mg/kg PO q 8–12 hours
Trimeprazine Brompheniramine	0.5–5 mg/kg PO q 8–12 hours 0.5–2 mg/kg PO q 12 hours
Clemastine	0.05–1.5 mg/kg PO q 12 hours
Terfenadine	0.25–1.5 mg/kg PO q 12–24 hours
Astemizole	1 mg/kg PO q 12–24 hours
Promethazine	1–2.5 mg/kg PO q 12 hours
Loratadine	0.5 mg/kg PO q 24 hours
Cetirizine	0.5–1 mg/kg PO q 24 hours
Doxepin	0.5–1 mg/kg PO q 8–12 hours
Dimenhydrinate	8 mg/kg PO q 8 hours
Tripelennamine	1 mg/kg PO q 12 hours
Clomipramine	1–3 mg/kg PO q 24 hours

*Antihistamines in bold are preferred by the author.

Treatment – Step 3

1. Installation of Air Filter & Dehumidifier

- 2. Acaricide treatment (for dust mite) Once a month for 3 months, then every 3 months
- 3. Cyclosporine @5mg/Kg PO OD. Beneficial effects are seen after 4-6 weeks (1-1.5 months). Dosage should be tapered down to 48-72hr dose frequency.
- 4. Immunotherapy (Allergy vaccine) good to excellent response. Clinical improvement is seen after 3-5 months. It may take upto 12 months in some dogs.

Correspondence Open Access Published: 16 August 2015

Treatment of canine atopic dermatitis: 2015 updated guidelines from the International Committee on Allergic Diseases of Animals (ICADA)

<u>Thierry Olivry</u> ^I, <u>Douglas J. DeBoer</u>, <u>Claude Favrot</u>, <u>Hilary A. Jackson</u>, <u>Ralf S. Mueller</u>, <u>Tim Nuttall</u> & <u>Pascal</u> <u>Prélaud</u> for the International Committee on Allergic Diseases of Animals</u>

BMC Veterinary Research 11, Article number: 210 (2015) Cite this article

95k Accesses | 137 Citations | 27 Altmetric | Metrics

Abstract

Background

In 2010, the International Task Force on Canine Atopic Dermatitis (now International Committee on Allergic Diseases of Animals, ICADA) published the first consensus guidelines for the treatment of atopic dermatitis (AD) in dogs. This is the first 5-year minor update of

Download PDF	$\mathbf{\tau}$	
Collection <u>International Committee on Allergic Diseases of</u> <u>Animals (ICADA) Consensus and Guideline Papers</u>		
Sections	References	
Abstract		
<u>Background</u>		
<u>Conclusion</u>		
<u>Abbreviations</u>		
<u>References</u>		
<u>Acknowledgements</u>		
Author information		

2015 - USA

- Oclacitinib (Janus Kinase Inhibitor)
 @0.4-0.6mg/Kg PO BD. Do not combine with glucocorticoids.
- 2. Recombinant Canine Interferon gamma @5000-10000U/Kg SC thrice a week for 4 weeks, then once weekly.
- 3. Recombinant feline interferon omega

Wiley Online Library

Veterinary Dermatology

Scientific Paper 🔂 Open Access 🖾 🛈 🗐 🏵

A blinded, randomized clinical trial evaluating the efficacy and safety of lokivetmab compared to ciclosporin in client-owned dogs with atopic dermatitis

Hilde Moyaert 🔀, Leen Van Brussel, Stasia Borowski, Monica Escalada, Sean P. Mahabir, Rodney R. Walters, Michael R. Stegemann

First published: 14 September 2017 | https://doi.org/10.1111/vde.12478 | Citations: 54

Source of funding: This study was initiated and funded by Zoetis Inc, Parsipanny, NJ, USA. The test article (lokivetmab or ciclosporin) was provided at no cost to the clinic and clinicians were compensated for the costs associated with each dog's clinic visit.

Conflict of interest: All authors are employees of Zoetis Inc.



EN FR ES DE IA ZH PT

Search



<u>A masked, randomised clinical trial</u> <u>evaluating the efficacy and safety of</u> <u>lokivetmab compared to saline control in</u> <u>client-owned dogs with allergic dermatitis</u>

Leen Van Brussel, Hilde Moyaert, Monica Escalada, Sean P. Mahabir, Michael R. Stegemann

Veterinary Dermatology

Abstract

SECTIONS

2017 - Belgium

Cyclosporine @5mg/Kg PO OD for 3 months

Vs Lokivetmab @1-3.3mg/Kg SC once a month for 3 months

Lokivetmab is non-inferior to cyclosporine in pruritus reduction

Review Article

Update on pathogenesis, diagnosis, and treatment of atopic dermatitis in dogs

Timothy J. Nuttall BVSC, PhD Rosanna Marsella DVM Michele R. Rosenbaum VMD Andrea J. Gonzales PhD Valerie A. Fadok DVM, PhD

From the Royal (Dick) School of Veterinary Studies, Colleges of Medicine and Veterinary Medicine, University of Edinburgh, Midlothian, EH25 9RG, England (Nuttall); Department of Small Animal Clinical Sciences, College Veterinary Medicine, University of Florida, Gainesville, FL 32610 (Marsella); Veterinary Professional Services, Zoetis Inc, 10 Sylvan Way, Parsippany, NJ 07054 (Rosenbaum, Fadok); and Global Therapeutics Research, Zoetis Inc, 333 Portage St, Kalamazoo, MI 49007 (Gonzales). Improved understanding of the pathogenesis of atopic dermatitis in dogs has led to more effective treatment plans, including skin barrier repair and new targeted treatments for management of allergy-associated itch and inflammation. The intent of this review article is to provide an update on the etiologic rationale behind current recommendations that emphasize a multimodal approach for the management of atopic dermatitis in dogs. Increasing knowledge of this complex disease process will help direct future treatment options.

2019 - England

4 step diagnostic process to identify atopic dermatitis

- 1. Step 1 Encourage ectoparasite control
- 2. Step 2 Topical treatment to control bacterial & yeast infections
- 3. Step 3 Avoidance of food triggers (8 weeks of restricted diet, then back to original diet)
- 4. Step 4 Diagnosis of atopic dermatitis

Highlights

Abstract

- Abbreviations
- Keywords
- 1. Introduction
- 2. Materials and methods
- 3. Results
- 4. Discussion
- Funding sources
- CRediT authorship contribution statement
- Declaration of Competing Interest
- Acknowledgements

References

Appendix A. Supplementary material



Veterinary Immunology and Immunopathology Volume 258, April 2023, 110574

Laboratory safety evaluation of lokivetmab, a canine anti-interleukin-31 monoclonal antibody, in dogs

Matthew Krautmann Q 🖂 , Rodney R. Walters, Vickie L. King, Kevin Esch, Sean P. Mahabir, Andrea Gonzales, Paul J. Dominowski, Laurel Sly, Duncan Mwangi, Dennis L. Foss, Sharath Rai, James E. Messamore, Genevieve Gagnon, Adam Schoell, Steven A. Dunham, Olivier M. Martinon

Show more 🥆

+ Add to Mendeley 😪 Share 🍠 Cite

https://doi.org/10.1016/j.vetimm.2023.110574 7

Under a Creative Commons license 🛪



Get rights and content **A**

open access

Recommended articles

^

The role of TLR4-mediated MyD88/TRAF6/NF-κB signaling and... Veterinary Immunology and Immunopathology... C. Zhang, ..., D.J. Li

🔁 Purchase PDF

Immunotolerance of dairy heifers in response to repeated exposure to...

Veterinary Immunology and Immunopathology... T. Sullivan, ..., N.A. Karrow

🔁 Purchase PDF

Characterization of expression and prognostic implications of...

Veterinary Immunology and Immunopathology... Jacqueline D. Murphy, ..., Sandra Axiak-Bechtel

🔁 Purchase PDF

Show 3 more articles 🗸 🛛 🛛



2023 - USA

No hypersensitivity
 Well tolerated by dog (3 times the recommended dose)
 No effect on immune system

THANK YOU