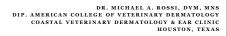
Cutaneous adverse food reactions in the canine patient



Canine atopic dermatitis (cAD)



- Inflammatory and pruritic
- Typical clinical signs
- Immunoglobulin E (IgE)
- Multifaceted
- Genetic
- Frequent diagnosis



Nonenvironmental allergens and cAD



- Relationship of nonenvironmental allergens and cAD o Primarily food
- Hillier et al. (2001)
 - \circ ACVD Task Force on canine atopic dermatitis
 - o Is there a relationship between canine atopic dermatitis and cutaneous adverse food reactions?

FIAD/AFR

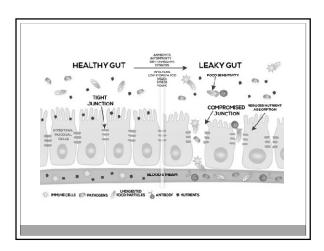


- Food can trigger clinical cAD lesions Canine AD sensu lato
- Indistinguishable from environmental disease
 Pruritus (glucocorticoid responsive)
 Distal limbs, face, ventrum, pinnae
 Young age of onset
 Pruritus of facial mucous membranes

- May have signs not typical of environmental
 Poor response to glucocorticoids
 Perianal pruritus
 Atypical age of onset
 GI issues

AFR....simplified!?

- Common cause of nonseasonal pruritus due to immunological and nonimmunological reactions
- Recent study with 259 dogs
- \circ 70.7% aeroallergen-induced
- o 25.1% food-induced
- o 4.2% combination
- Clinical signs between aeroallergen-induced and food-induced can be identical
 - o Some evidence supports seasonal AFR



AFR clinical signs

- 0
- Clinical signs can mimic aeroallergen-induced atopic disease
- No known breed, sex, or age predilection
 - Labradors, miniature schnauzers, poodles, wheaten terriers, dalmations
 - o 33-50% < 1 year of age
- No pathognomonic clinical signs for AFR

AFR clinical signs



- · Primary lesions
- Papules, macules, erythema, wheals, plaques
- · Secondary lesions
- o Due to pruritus and self trauma
- Ulcerations, excoriations, alopecia, etc, etc
- May have only one area affected or multiple areas
- Secondary infections are common



AFR clinical signs



- Systemic signs
 - \circ GI disturbance in 10-15% of affected individuals
 - o Vomiting
 - o Diarrhea
 - \circ Increased bowel movements
 - \circ Increased flatulence
 - $\circ \ Tenesmus$
 - o Fecal mucus and blood

Diagnosing AFR



- Difficult and frustrating for owners!
- · Long list of differentials
- · Gold standard
- o 8-12 week elimination diet
- $\circ \ \ Provocative \ exposure \ testing$
- Why so long?!?
- Why 80 10ng; #:

 Rosser EJ (1993) Diagnosis of food allergies in dogs

 * 1-3 weeks for 13 dogs

 * 4-6 weeks for 25 dogs

 * 7-8 weeks for 10 dogs

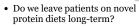
 * 9-10 weeks for 3 dogs

Diagnosing AFR



- Pay attention to dietary history when prescribing diet trial
- Novel is key!
- Commercially prepared "hypoallergenic" diets
- Home-cooked diets can be very beneficial
- None of the diets are 100% effective

Managing AFR



- o www.balanceit.com
- o www.petdiets.com



- o Old, maintenance diet challenge
- o Individual ingredient challenges
- Probiotics can be very useful in some patients
- Heart worm and flea preventatives?





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Managing AFR

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- Avoid offending allergens
 - o Balanced diet is important!
- Use antiprurituc and antimicrobial therapy when relapses occur
 - $\circ\,$ May or may not be glucocorticoid responsive
 - $\circ\,$ May respond to Atopica, but poor choice
 - \circ Apoquel may be beneficial
 - \circ Cytopoint may also be a poor choice

Summary



- AFR is a relatively common cause of nonseasonal pruritus in canine patients
- Good data supporting a specific immunological basis for the disease is lacking
- Proteins are the most likely culprits
- Novel protein diet trial of appropriate length
- Control acute flares and secondary infections
- There will be bumps in the road!

Questions?