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Pet Wellness
CENTER

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Evaluating Feline Pruritus

- What's the problem?
- Cats are not small dogs...
- Differentials for feline pruritus.
- A dermatologists approach...
 - Cookbook
 - Methodical

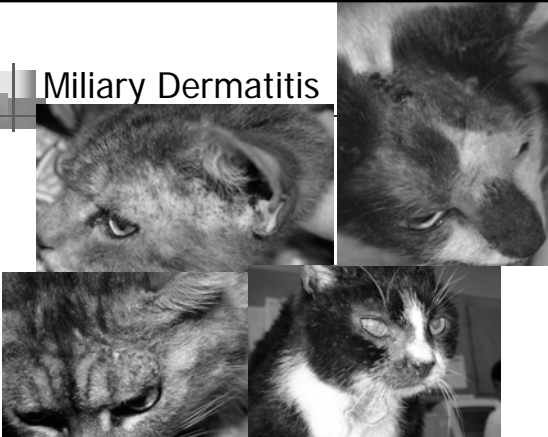
Managing Feline Pruritus

- Cats only eat what THEY want.
- Cats are in touch with the inner barbarian.
- Cats don't like pills.
- Cats don't like elixirs.
- Cats don't like water.
- Cat's remember!

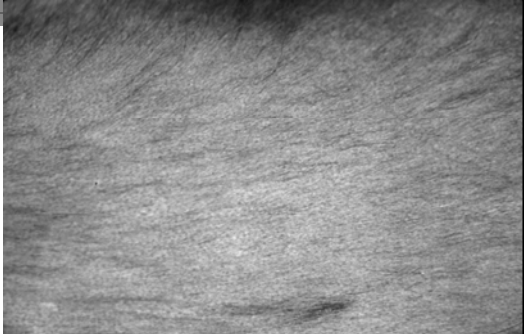
Evaluating Feline Pruritus

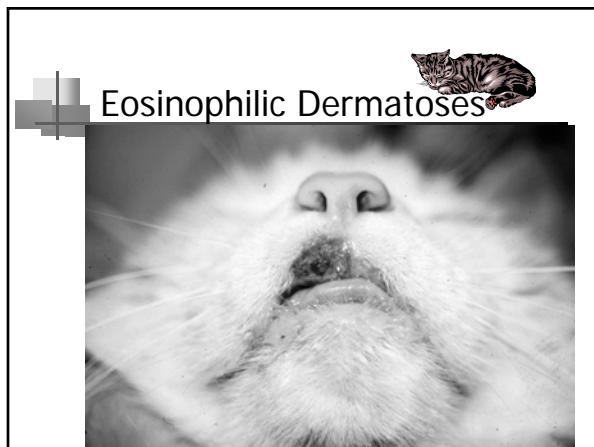
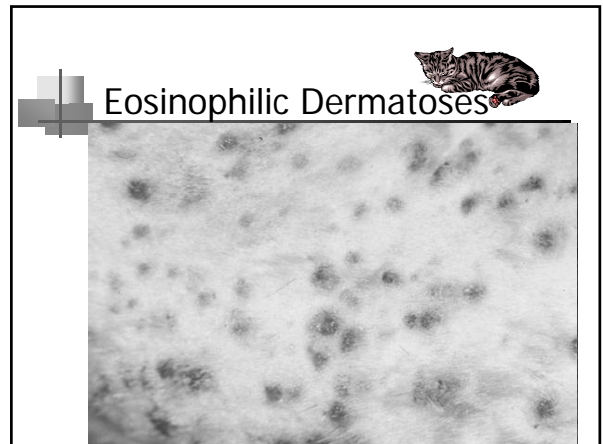
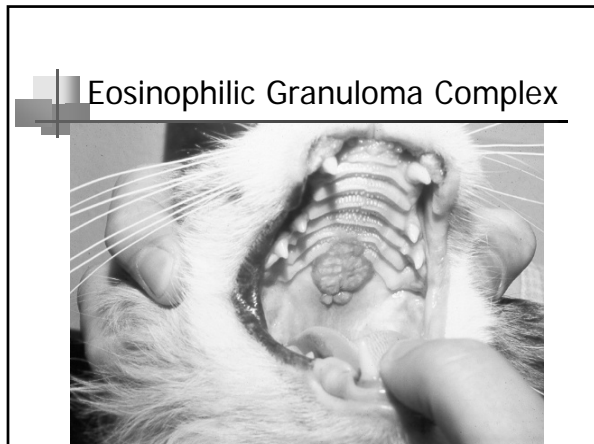
- Distinct Clinical Syndromes?
 - Miliary Dermatitis
 - Allergic Alopecia - Pruritus
 - Eosinophilic Granuloma Complex
 - "Head and Neck Pruritus"
- All have similar etiologies
 - Similar diagnostic strategy
 - Similar therapeutics

Miliary Dermatitis




Allergic Alopecia





Evaluating Feline Pruritus

Fleas	Food allergy
Fleas	Atopy
Fleas	Contact Dermatitis
Mites	Pyoderma
Demodex gatoi	Malassezia
Otodectes	Dermatophytosis
Cheyletiella	Drug Reaction
Notoedres	Paraneoplastic
Insect Hypersensitivity	Pemphigus
Mosquitoes	Mycosis Fungoides
Moth, Cockroach	Psychogenic
Flies	Herpes Virus
	FelV/FIV
	Papilloma virus

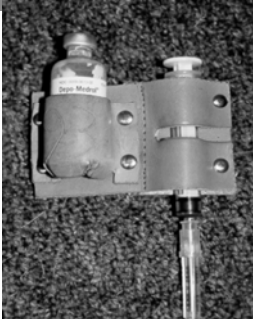



Cat Dermatitis: Easy or NOT

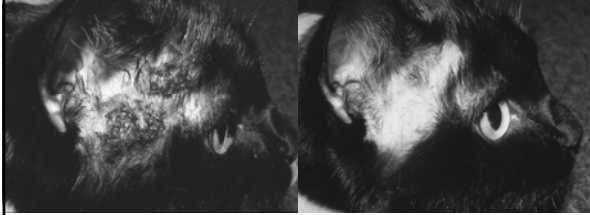
1. Eliminate fleas
Capstar qod for 30 days
2. Ring worm
3. Eliminate mites
Revolution
Lime sulfur
4. Food trial
5. Cyclosporine

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Dr. Depo approach

Evaluating Feline Pruritus

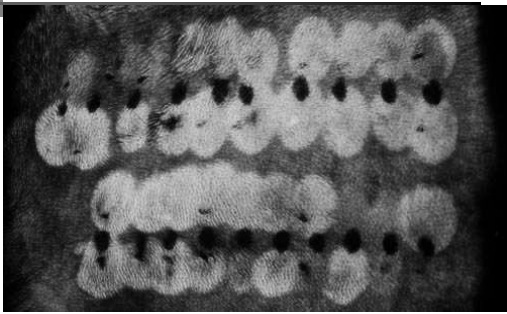


5 days post Depomedrol

When Steroids Go Bad - Cats

- Diabetes
- Corticoid-associated Congestive Heart Failure in 29 Cats. Smith SA, et al.
 - 271 cats with CHF
 - 29 with steroid administration in previous 90 days (11%)
- VIN search
 - apx >30 cats with CHF after steroid administration

Allergy Testing



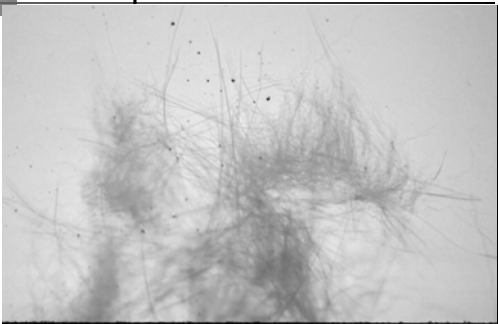
http://www.cvm.ncsu.edu/docs/dermat_allergyclinic.htm

Managing Feline Pruritus

- Go with the odds
 - Fleas
 - Fleas
 - Fleas
 - Demodex
 - Demodex
 - Insects/Mites
 - Food

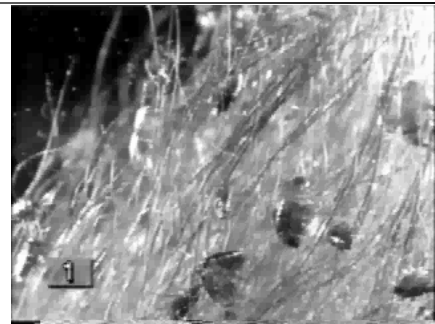



Eosinophilic Dermatoses



Evaluating Feline Pruritus

Ciba AH
Novartis



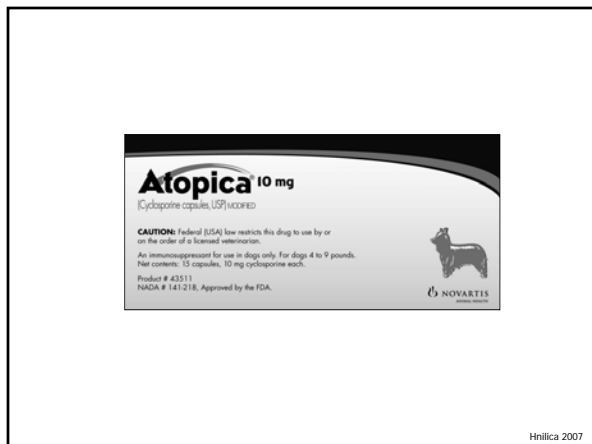
Cat Dermatitis: Easy or NOT

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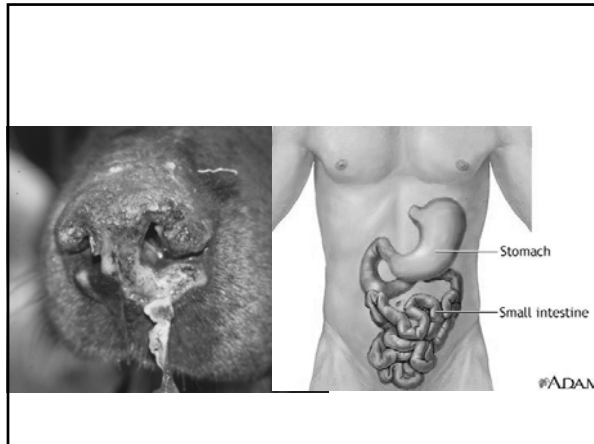
Finally,
we have a NSAID
for Allergies . . .

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Cyclosporine and Dermatology

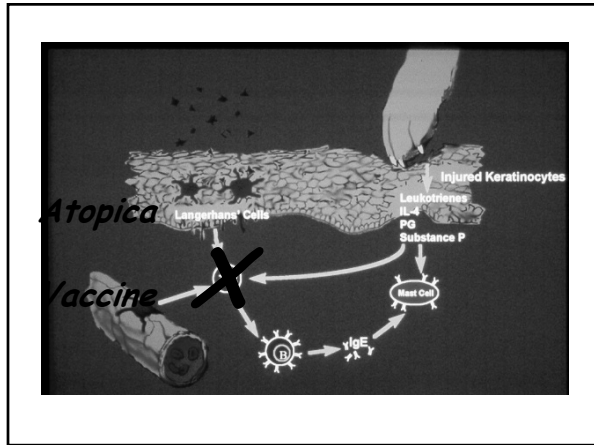
- Macrolactams
 - Cyclosporine, tacrolimus, pimecrolimus
 - Derived from
 - *Tolypocladium inflatum* – cyclosporine
 - *Streptomyces tsukubaensis* - tacrolimus
 - 1979 improved psoriasis
 - Decreased lymphocytes infiltrates



Atopica is a registered trademark of Novartis Animal Health US, Inc.

Allergic Inflammation

Novartis AH Atopica[®] 2003



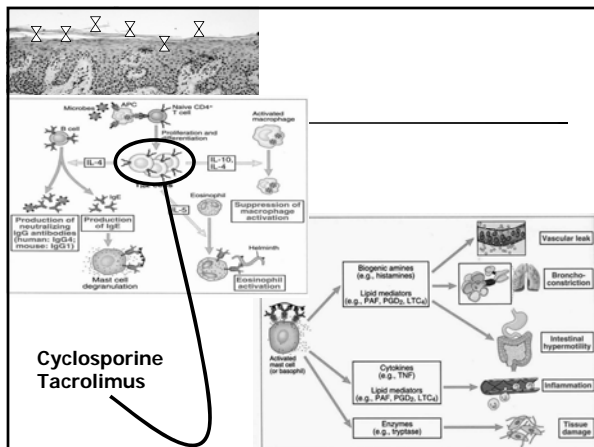
T-cells
inhibits cytokines

Langerhans cells
↓ IgE receptor
↓ tissue migration
↓ Antigen processing

Mast Cells
↓ histamine release

Keratinocytes
↓ IL-8 receptors

Macrolactam immunomodulators for topical treatment of inflammatory skin diseases. Bornhove E et al. JAAD 2001.



Atopica in Cats

- Currently off Label
- 5-10mg/kg (7mg/kg/day)
- Useful for many diseases
- Fewer side effects
- +/- faster response

Atopica in Cats

- Toxo risk
 - "Super absorbers"
 - Titers not useful – negative more risky
 - Keep inside to limited exposure
- Felv/FIV negative
- Other infections
- Safer than steroids

Idiopathic Pruritus - Cyclosporine

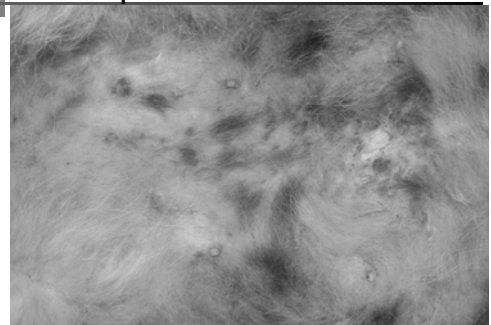


Idiopathic Pruritus

Dr. A. Vercelli, Italy
Novartis Proceedings, 5th World Congress of Veterinary Dermatology

86% improvement by day 30
97% improvement by day 60
100% improvement by day 90

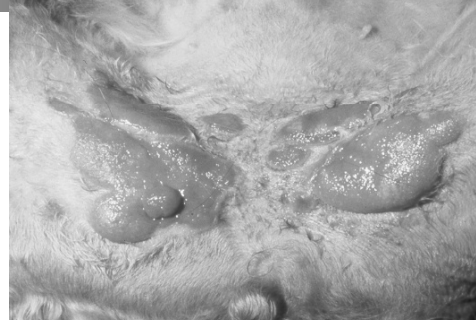
Eosinophilic Dermatoses

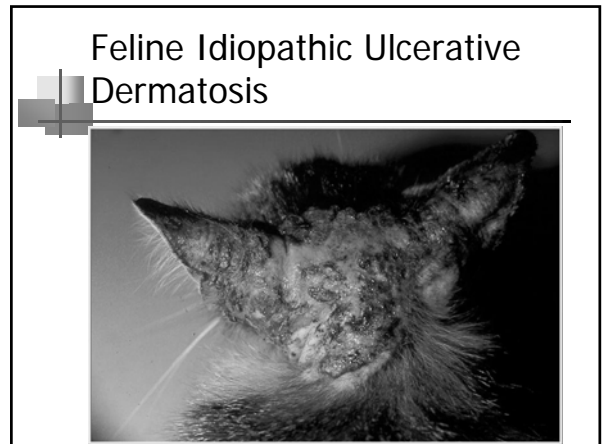


Eosinophilic Granuloma



Idiopathic Pruritus - Cyclosporine

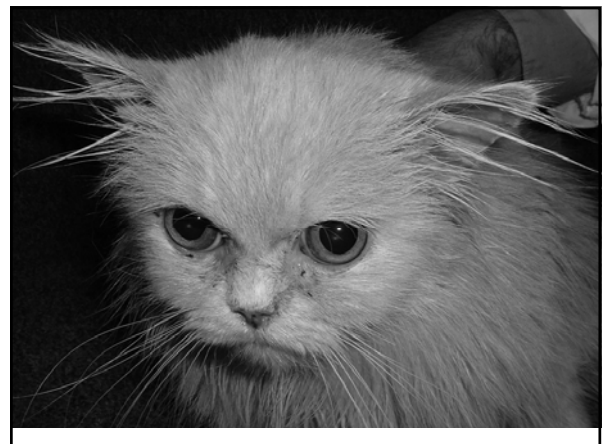




Eosinophilic Granuloma

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78% improvement by day 30
97% improvement by day 60
100% improvement by day 90



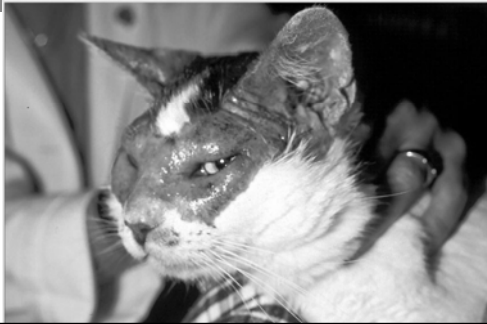
Macrolactams

Allergic Dermatitis	Vasculitis	Poison Ivy
Discoid Lupus	Urticaria	
Pemphigus	Rheumatoid arthritis	AIHA
Bullous pemphigoid	Sweet's syndrome	Colitis
Systemic Lupus	Panniculitis	Organ Transplants
Sebaceous Adenitis	Erythema multiforme	
Granulomatous dermatoses	Hypereosinophilic syndrome	Androgenic alopecia
Psoriasis	Eosinophilic granulomas	Vitiligo
Actinic dermatitis	Scleroderma	Ichthyosis
Dermatomyositis	Senile pruritus	Mycosis fungoides

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Flies	Herpes Virus
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	Papilloma virus

Managing Feline Pruritus



Eosinophilic Dermatoses



Persian Facial Dermatitis

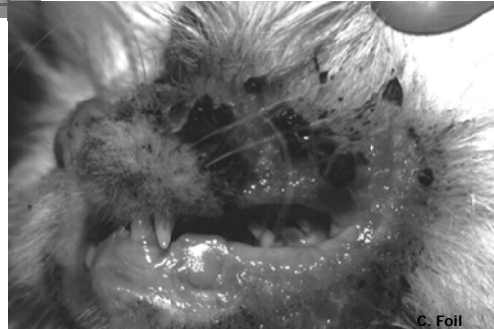
- Idiopathic Facial Dermatitis
- Facial Dermatitis
- Persian Seborrhea

Is it a new disease or
a fixed reaction pattern?

Persian Facial Dermatitis

- What is it?
- Characteristic symptoms
 - Young adults
 - Face
 - Seborrhea
 - Inflammation
 - Pruritus after skin changes
 - Otitis
 - Lymphadenopathy

Persian Facial Dermatitis



Persian Facial Dermatitis

- Primary or Secondary
 - Genetics – reaction pattern or keratinization defect
 - FeLV, FIV, Herpes virus
 - Dermatophytosis
 - Pyoderma
 - Malassezia
 - Demodex
 - Allergies
 - Food

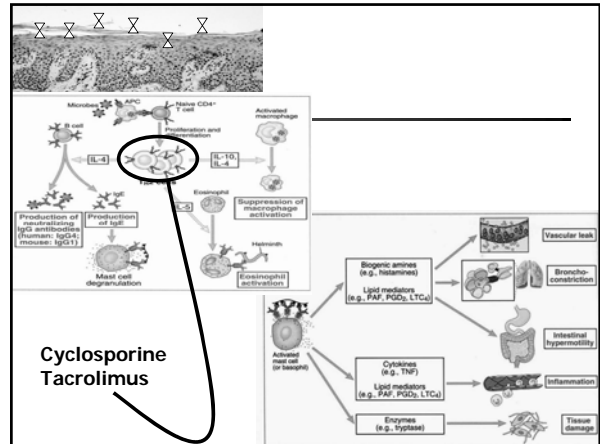
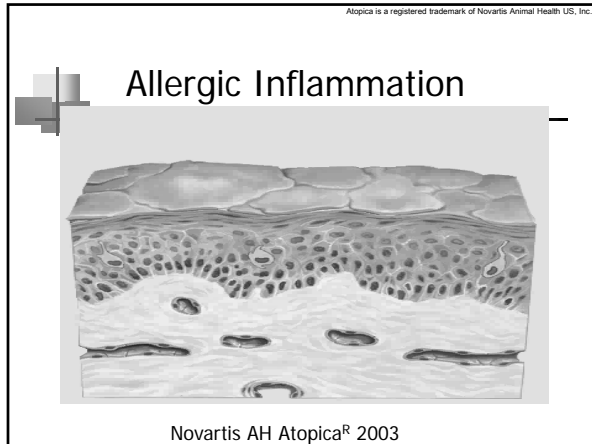
Persian Facial Dermatitis

- Histopathology
 - Inflammatory dermatitis
 - Neutrophils, eosinophils, mast cells
 - Interface
 - Spongiosis

Persian Facial Dermatitis

- How do you treat it?
 - Treat any identifiable disease
 - Topical antiseborrheics
 - Degreasing shampoo
 - Benzoyl peroxide
 - Sulfur/salicylic acid
 - Systemic antimicrobials
 - Antibiotics
 - Itraconazole
 - If idiopathic?





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 - "Super absorbers"
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 - Felv/FIV negative
 - Other infections
 - Safer than steroids

Generics?? (7 Dersms say . . .)
 Lose 10-50% efficacy
 Lose control of dispensed product
 Not FDA veterinary approved
 Only cheaper through outside pharmacies
 Not wise practice management

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