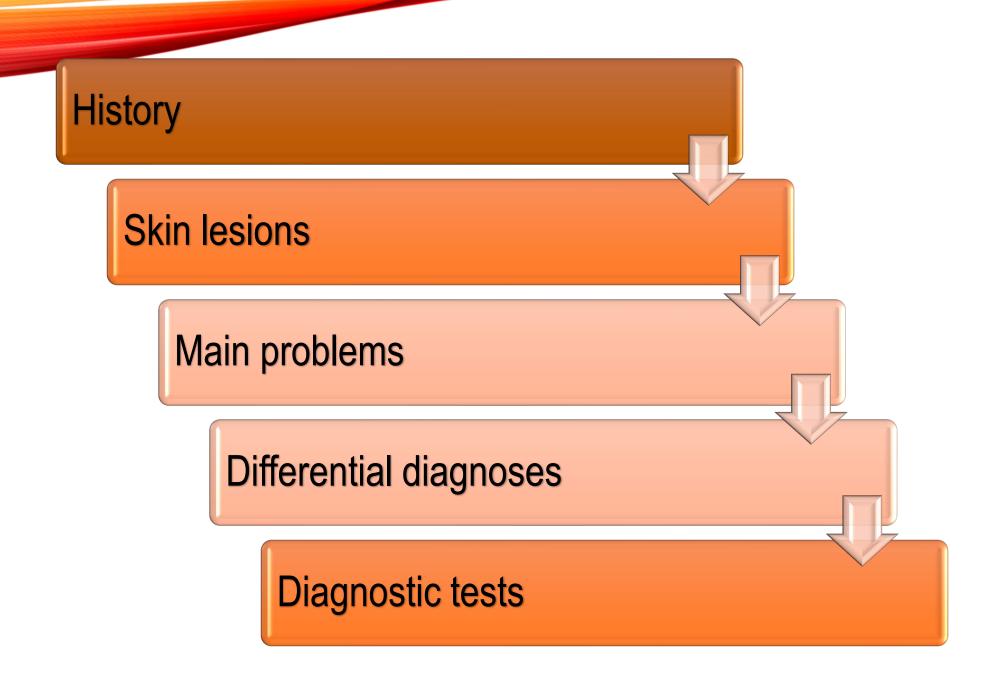
APPROACH TO DERMATOLOGICAL PATIENT

Mendoza-Kuznetsova, DVM, DipECVD

Cummings veterinary school of Tufts University, USA



HISTORY

HISTORY

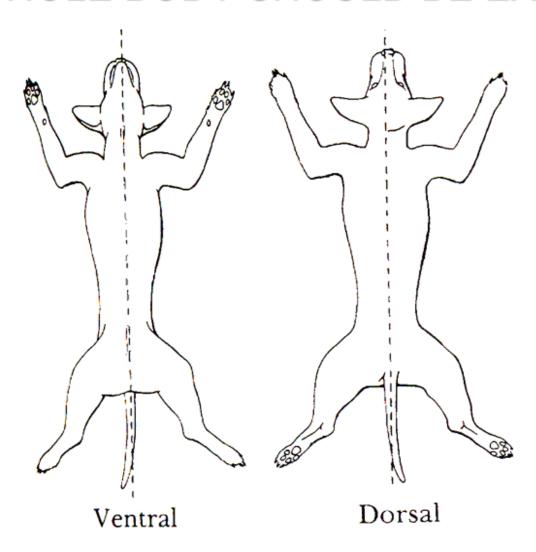
- Indoor/outdoor?
- Are there other pets in the house? Are they healthy?
- Travel history
- Flea/tick prevention. When was the last application?
- Food ingredients history. Any previous diet trail?
- Any other than skin diseases?
- Current medications?
- When did you last time see a flee on a pet?
- Do any people in the house have skin lesions?

HISTORY OF THE PROBLEM

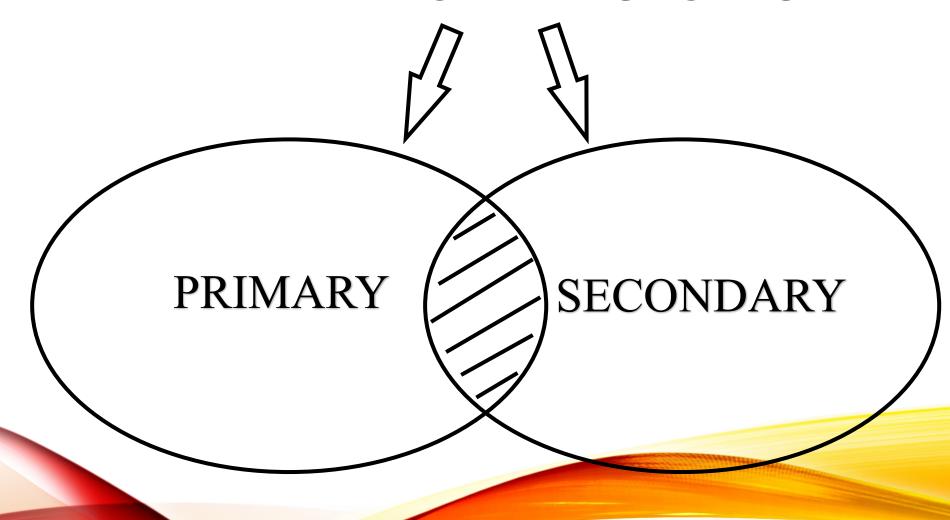
- At which pet's age did you notice the first skin problem?
- What was it itch or lesions?
- Which areas of the body were affected first?
- What was the course of the disease?
- Is there any seasonality noticed?
- Which treatment did help temporarily?
- How severe the symptoms now?
- Does the pet lick the paws? Rubs the face? Shakes the head?
- Are there any changes in general condition?

SKIN EXAMINATION

THE WHOLE BODY SHOULD BE EXAMINED!

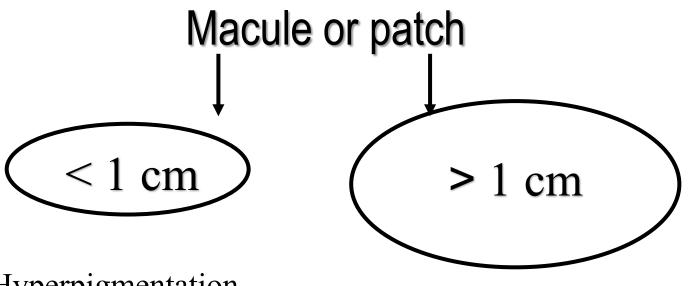






PRIMARY: Macule and patch

Focal circumscribed nonpalpable spot of changing the skin color.



- •Hyperpigmentation
- Depigmentation
- •Erythema
- •Focal hemorrhage (purpura).



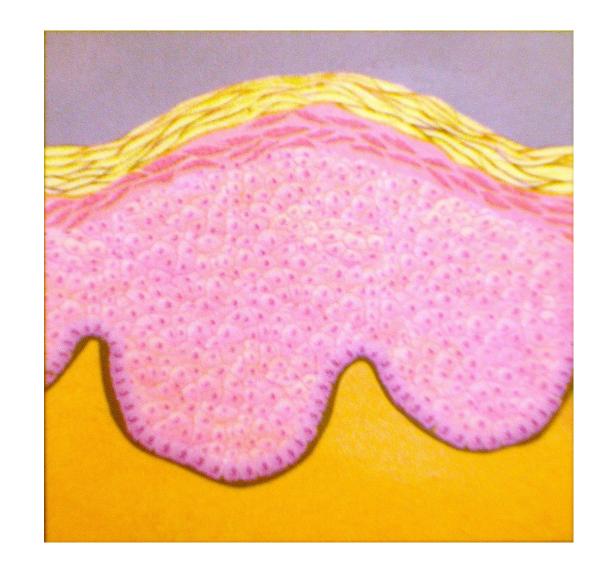
HOW TO DISTINGUISH HEMORRHAGE AND ERYTHEMA?



PRIMARY: Papule

Small solid palpable elevation of he skin up to 1 cm in diameter

- Accumulation of the inflammatory cells
- Focal hyperplasia
- Early neoplasia.



PRIMARY: Papule

Pyoderma

- Scabies
- Flea allergy dermatitis
- Demodicosis
- Mosquito bite hypersensitivity.



Larger, flat-top elevation formed by coalition and fusing of papules



PRIMARY: plaque



- Pyoderma
- Eosinophilic plaque
- Kerion (dermatophytosis)
- Flea allergy dermatitis
- Mosquito bite hypersensitivity.

PRIMARY: Pustule and abcsess

Pustule – small circumscribed elevation filled with pus.

- Intraepidermal
- Subepidermal
- Follicular or non-follicular.

Abscess - Intradermal or subcutaneous pus accumulation

Larger and deeper than pustule.



PRIMARY: Pustule

• PYODERMA

- Dermatophytosis
- Pemphigus foliaceous.



PRIMARY: Vesicle and bulla

Small circumscribed elevation filled with clear fluid

- Intraepidermal
- Subepidermal.



Vesicle larger than 1 cm
Usually deeper than vesicle
Commonly appear to be abscesses.



PRIMARY: Vesicle and bulla

- Burns
- Immune-mediated dermatitis
- Viral skin diseases
- Mucinosis in shar-pei dogs.



PRIMARY: Wheal

Well circumscribed raised flat edema which appears and disappear in minutes/hours.

Intercellular edema

- Urticaria
- Arthropod bites
- Other types of hypersensitivity
- Drug reactions.

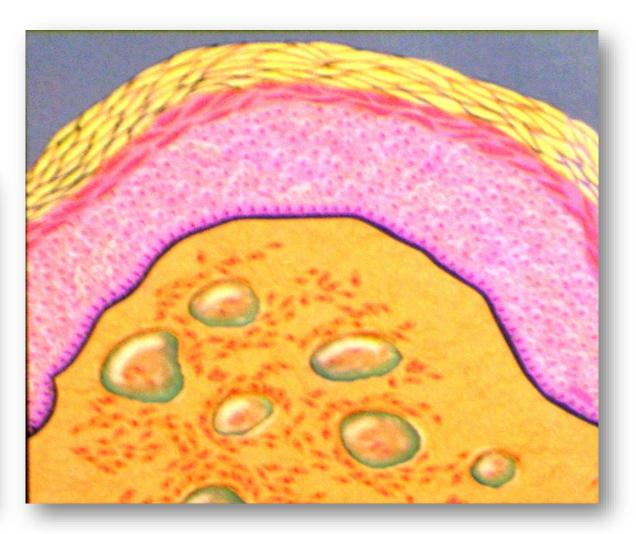


Firm palpable elevation of the skin larger than 1 cm in diameter, usually deeply located.

Massive infiltration by inflammatory or neoplastic cells.



PRIMARY: Nodule



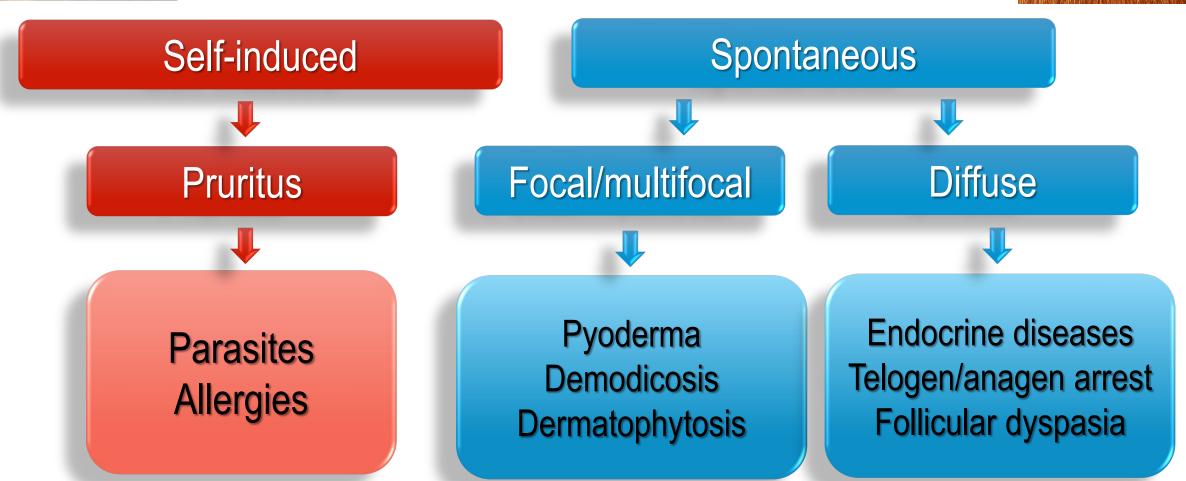
PRIMARY OR SECONDARY: ALOPECIA AND HYPOTHRICHOSIS







ALOPECIA - CLINICAL ASSESSMENT



ERYTHEMA

- Primary
 - Allergy



- Secondary
 - Pyoderma



PRIMARY OR SECONDARY: SCALES AND FOLLICULAR CASTS





FOLLICULAR CASTS AND SCALES

Primary

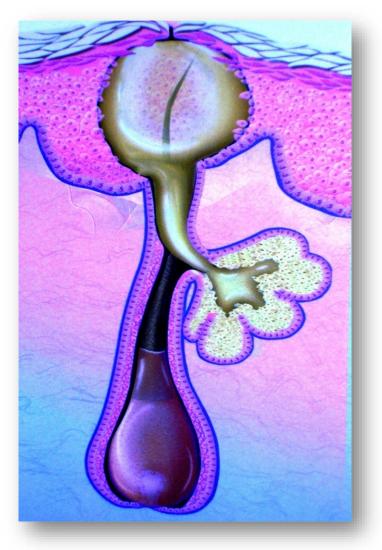
- Cornification disorders:
 - Primary "seborrhea"
 - Ichthyosis
- Sebaceous adenitis.

Secondary

- Folliculitis
- Allergy
- Cheyletiellosis
- Demodicosis
- Leishmaniosis.

PRIMARY OR SECONDARY: COMEDONES





PRIMARY OR SECONDARY: COMEDONES





PRIMARY OR SECONDARY: COMEDONES

Primary

- Feline acne
- Endocrine diseases
- Schnauzer comedo syndrome

Secondary

- Demodicosis
- Dermatophytosis.

PRIMARY OR SECONDARY: LEUKODERMA AND LEUKOTRICHIA

Primary

- Vitiligo
- Cutaneous lupus
- Alopecia areata.

Secondary

- Post-inflammatory
- Post-trauma.

PRIMARY OR SECONDARY: HYPERPIGMENTATION

Primary

Lentigo



Secondary

Post-inflammatory





SECONDARY: CRUST AND EPIDERMAL COLLARETTE

Keratinocytes, sebaceous gland secret and debris with exudate or blood.

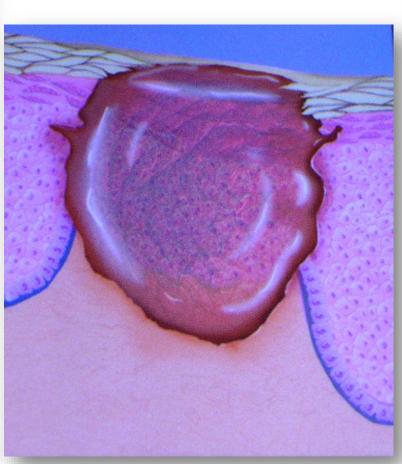
- Pyoderma
- Pruritus
- Many others...

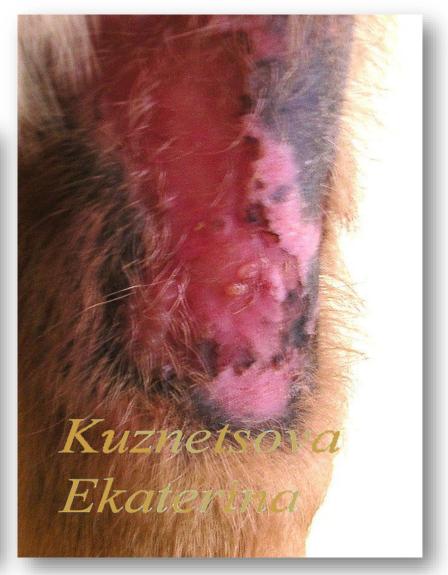
SECONDARY: SCAR AND EXCORIATION



SECONDARY: EROSION AND ULCER









SECONDARY: LICHENIFICATION



SECONDARY: DRAINING TRACT



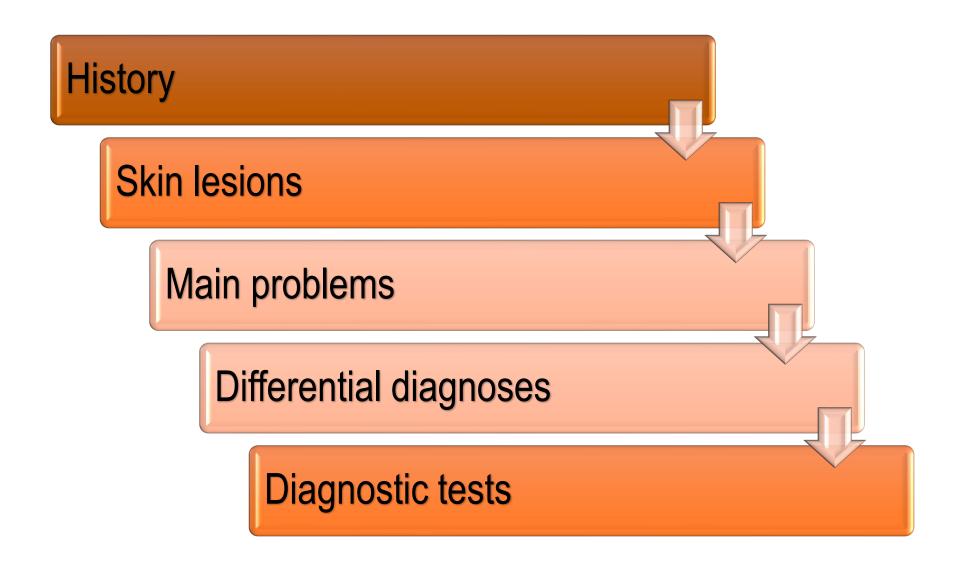
LESION STAGES



EXAMPLES OF THE MAIN PROBLEMS

- Pustule dermatitis (papules, pustules, crust, spontaneous focal alopecia, epidermal collarettes, erosions with crusts)
- Deep abscess dermatitis (nodules, draining tracts, ulcers)
- Pruritus (erythema, self-induced alopecia or hypotrichosis, excoriations)
- Otitis (discharge from the ears, erythema and edema in the ear canals)
- Superficial pododermatitis (erythema, prurirus or lichenification on the paws)
- Deep pododermatitis (nodules and draining tracts on between the toes)
- Spontaneous diffuse alopecia
- Keratinisation disorder/seborrhea (scales, follicular casts, comedones)
- Skin / mucosal depigmentation (leukoderma focal or diffuse, leukotrichia)
- Hyperpigmentation (pigmented macules or patches or diffuse hyperpigmentation)
- Vesiculobullous dermatitis
- Erosive/ulcerative dermatits of mucosal or mucocutaneous areas
- Nodule dermatitis
- Miliary dermatitis (in cats small crusted papules)
- Otitis
- Cheilitis (lip inflammation)
- Skin fold dermatitis (in diagnosis will be as intertrigo).

WHAT IS NEXT?



DIFFERENTIAL DIAGNOSES CASE #1

Pustule dermatitis
Prurtitus
Otitis

- Pyoderma
- Food adverse reactions
- Atopic dermatitis
- Microbial otitis

DIFFERENTIAL DIAGNOSES CASE #2

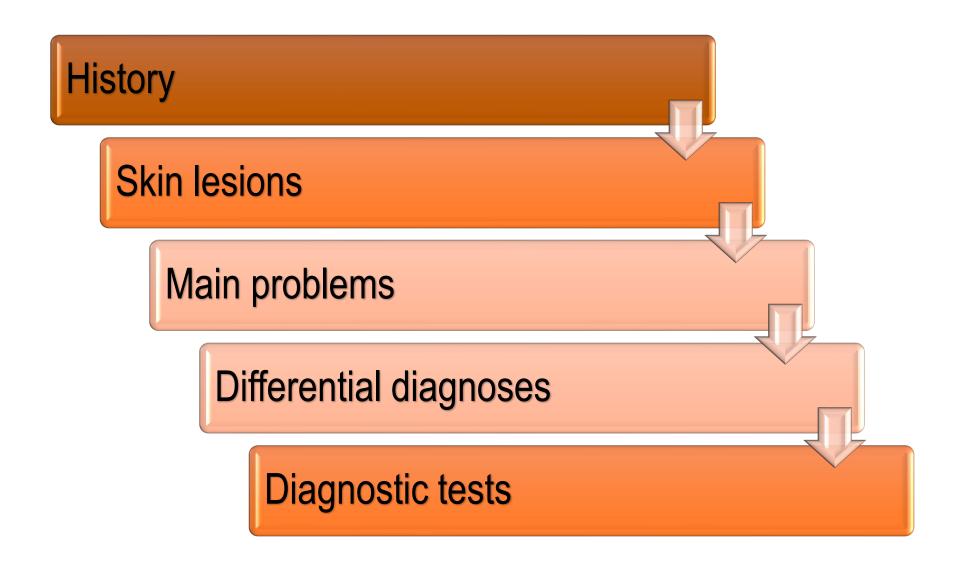
Deep abscess pododermatitis

Comedones

Spontaneous multifocal alopecia

- Deep pyoderma / bacterial furunculosis
- Foreign body reaction
- Demodicosis
- Bacterial folliculitis / pyoderma

WHAT IS NEXT?



HOW TO CHOOSE THE RIGHT TEST?

Pyoderma Microbial otitis

Cytology

Flea bite allergy

Food adverse reactions

Atopic dermatitis

- Strict flea control
- Diet trial for 6-8 weeks
- Ruling out other causes of pruritus