



#### Seborrhea In Dogs

# Management in Shelters and Foster Homes

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#### 'Seborrhea'- term is obsolete Correct term: **cornification defect**

Excessive scales (flakes, 'dandruff') with or without oily skin and hair.



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### 'Seborrhea' is....

- · Clinical description, not a diagnosis
- · Disruption in production epidermal cells and
- Causes
  - · Primary-Hereditary-noted early in life, life long
  - Secondary-acquired, occurs as a result of other diseases, temporary
- Most common in dogs

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#### Odor and scales that do not wash off...

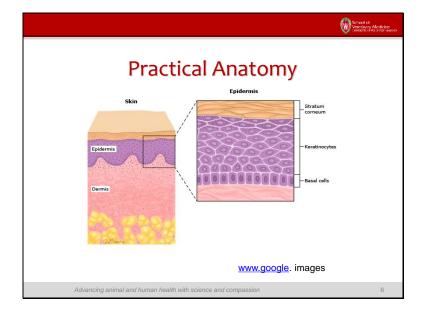




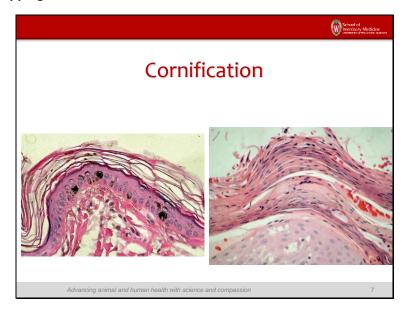




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#### Importance of Epidermal Barrier

- Prevents excessive water loss from skin
- Prevents loss of other bodily fluids
- Protects against UV damage
- · Protects against trauma
- Part of the body's immune system
- Prevents against infection and invasion of micro-organisms

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#### Pathogenesis of Clinical Signs

- Accumulations of scale and crust because of shortened epidermal cell turnover
- Irritation, inflammation, pruritus and odor develop because of changes in the composition of surface oils
- Frequent bacterial and yeast overgrowth/infections often with pruritus due to changes in the skin flora

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# 'Seborrhea sicca'-dry 'Seborrhea oleosa'-greasy

- Clinical descriptors
- · Not a specific disease
- Only of importance when determining topical therapy
- · Avoid use of these terms!!!!

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#### **Primary Cornification Defect**

- Hereditary with breed predisposition or random genetic abnormality
- · Noted early in life for many conditions
- · Manage, not cure
- · Diagnose via ruling out other causes



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#### **Primary Breed Predisposition**

- · Primary cornification disorder
  - West Highland white terrier, cocker spaniel, basset hound, Doberman pincher, German shepherd, English springer spaniel, Irish setter, Labrador retriever.
- · Vitamin A-most notably cocker spaniel
- · Zinc responsive
  - · Alaskan malamute, Siberian husky, Samoyed, Pharaoh hound
- · Epidermal dysplasia-West Highland white terrier
- Ichthyosis-golden retrievers, Jack Russell terrier, Norfolk terrier, American bull dog

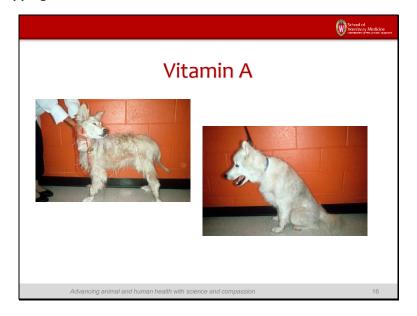
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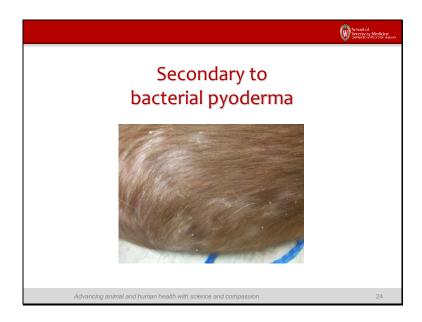










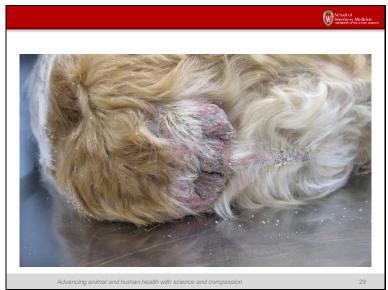


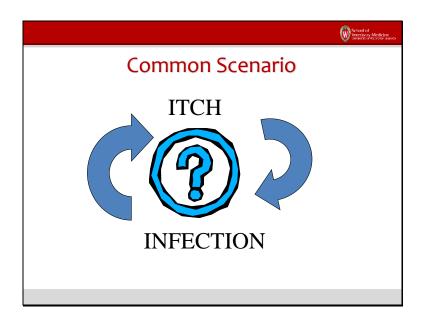












# Spending Money Wisely Consider global health of dog and address issues Vaccination Nutrition Endo-parasite control Assume seborrhea is secondary, until proven otherwise Ectoparasite control Skin cytology for bacterial or/yeast overgrowth

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#### What does this 'look like'?

- Intake: vaccinations, standard deworming, appropriate diet and adequate feeding
- Flea control/contagious parasite treatment q 2 weeks for 6 weeks
- · In house diagnostics
  - · Hair trichogram to look for demodicosis

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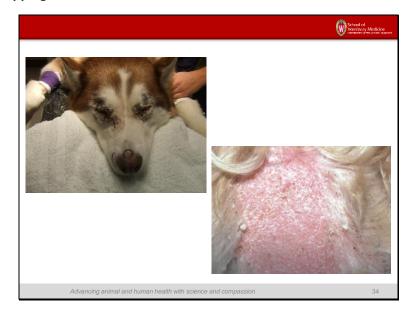
- · Skin cytology for yeast
- · Wood's lamp-high risk of false positives
- · Bacterial overgrowth is common, at least treat topically

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#### Other Diagnostics

- If animal is otherwise healthy, routine laboratory work is rarely helpful
- · Allergy work up?
- Thyroid function tests?
- · Adrenal function tests?
- · Skin biopsy indications

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# Diagnosis Via Biopsy Vitamin A responsive skin disease Zinc responsive skin disease Medical conditions-cutaneous lymphoma Sebaceous adenitis Lichenoid psoriasiform dermatitis of springer spaniels Nasal parakeratosis-when ruling out from immune mediated Maybe helpful in ichyosis, primary cornification diseases..





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#### Topical Therapy-What You Need

- ONE cleansing shampoo
- One combined antibacterial/antifungal shampoo
- One combination tar and sulfur or salicylic acid shampoo
- One good degreasing shampoo
  - Benzoyl peroxide (degreasing and antimicrobial)
- One moisturizing product
  - 50% propylene glycol
  - · Commercial product
- One non-irritating ear cleaner

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## Shampoo Therapy Simplified

- Step 1: Instill ear cleaner
- Step 2: Bathe dog in a cleansing shampoo to remove debris
  - · Apply pre-diluted shampoo (1:2 1:4), wash, rinse
- Step 3: Alternate bathing with antimicrobial shampoo and anti-seborrheic shampoo
  - Apply pre-diluted shampoo (1:2 1:4), wash, rinse
- · Rinse again and again
- · Step 4: Finish cleaning ears

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#### Seborrheic Otitis

- Increased ear secretions
- Ceruminous otitis leads to bacterial overgrowth and chronic inflammation and ODOR
- Treat microbial overgrowth
- · Clean ears at every bath
- Topical ear steroids maybe very helpful
  - 1:1 dilution of propylene glycol and 2mg/kg of dexamethasone

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# What Foster Families Can Do

- Dog with chronic seborrheic otitis
  - Important to determine if medical or surgical
  - 30 day treatment period needs to be done in a home
  - 1 mg/kg orally once daily for 15-30 days

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