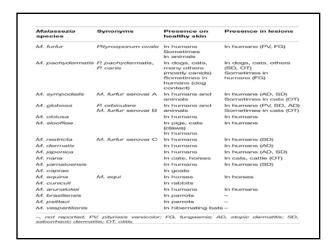


### Malassezia History □ 1889 - M furfur in humans $\hfill\Box$ 1925 - Indian rhinoceros with an exfoliative dermatitis $\hfill\Box$ 1950 - otic pathogen of dogs $\hfill\Box$ 1990's - common cause of canine dermatitis □ Currently 18 species and counting



Malassezia pachydermatis □ Lipophilic, Lipid-dependent yeast □ 97% M. pachydermatis in allergic dogs □ Commensal organism ■ Dogs (M. globosa and M. restricta) □ Cats (M. restricta, M. globosa >> M. sympodialis, M. furfur, M. nana (especially in ears), and M. slooffiae (especially claw folds), M. pachydermatis, M. japonica, M. obtusa, M. dermatis, and M. yamatoensis)  $\blacksquare$  Symbiotic relationship with commensal staphylococci

8

### Malassezia in dogs

- □ Moderate to INTENSE PRURITUS
  - Erythema of chin / perioral skin lower lip fold
  - Frenzied facial pruritus in dogs
  - Misdiagnosed as neurological disease
  - Steroid/Apoquel/Cytopoint NON-responsive
- Malodorous seborrheic dermatitis
- Lichenification and hyperpigmentation
- □ Reddish brown stain of claws
- □ Paronychia, pododermatitis
- Otitis externa with inflammation extending onto the pinnae







Malassezia in Cats

- □ Devon rex and Sphynx cats
- a especially M. globosa and M. restricta □ Pruritus, erythema, self-excoriation
- Less commonly lichenification
- $\hfill \Box$  Feline chin acne
- □ Allergies & Otitis Externa
- M. pachydermatis and M. sympodialis
- □ Idiopathic facial dermatitis
- Persian/Himalayan
- $\hfill\Box$  Paraneoplastic alopecias
  - Pancreatic adenocarcinoma ■ Thymoma Exfoliative dermatitis



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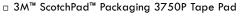
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Dog with yeast on its back.

Not all of them Are this obvious!

Don't forget to do cytology Adhesive Tape Impression Tips

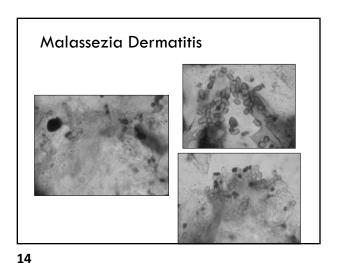


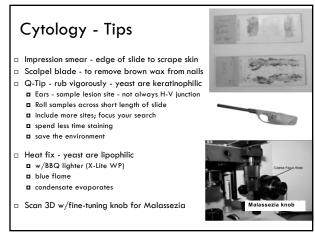
- Purchase online, supply store
- Stickier (especially for Malassezia)
- Tends not to curl as readily
- □ Can also use as pharmacy label cover

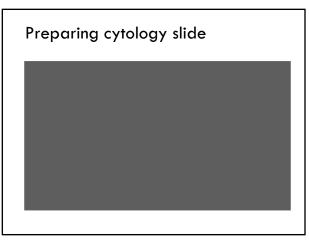


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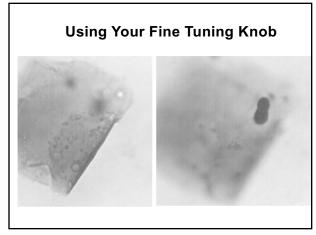


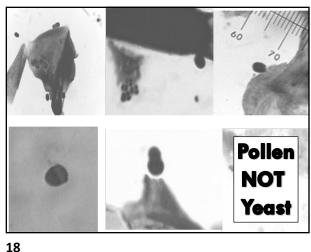


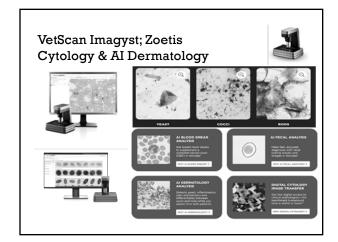


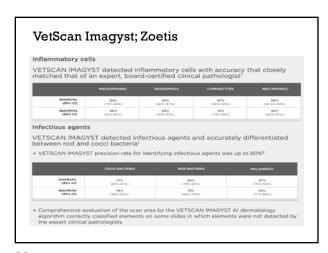


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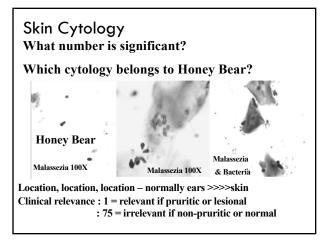








19 20



LFundi (Based). 2020 Jun; 6(2): 93.

PMCID: PMC7345796
Published ordine 2020 Jun; 6(2): 93.

Antifungal Resistance Regarding Malassezia pachydermatis: Where Are We Now?
Prodrea Peano, \*\* Elizabeth Johnson.\* Elisa Chievassa.\* Paolo Tizzani.\* Jacoues Guillot.\* and Mario Pasauetti\*

Potential mechanisms of resistance based

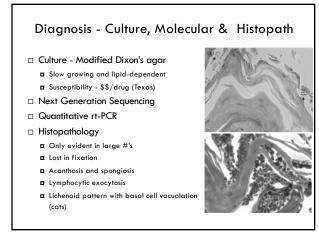
1) reduced affinity of the target (lanosterol demethylase) for the azole;

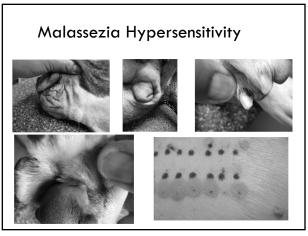
2) an energy-dependent efflux mechanism that causes the decreased intracellular accumulation of azoles;

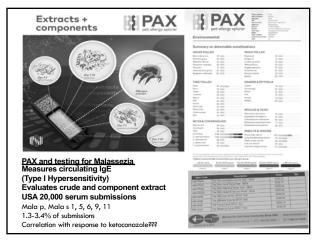
3) up-regulation of target enzyme, with the antifungal agent being consequently overwhelmed; and

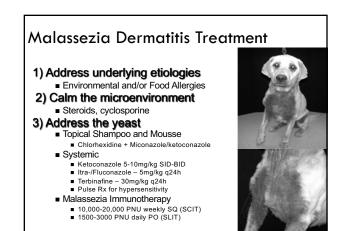
4) the development of bypass pathways, through which ergosterol is replaced by its precursor 14α-methylfecosterol

21 22









25 26

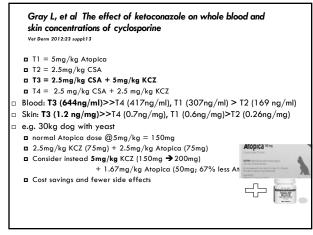


Atopy & Malassezia Dermatitis

Letoconzol
Le

28

27







YU Pile it on/Peel it off approach to severe allergies

Dietary trial

4wk (50%); 8-12wk (100%)

Symptomatics for atopy

6 weeks

Apoquel®, Cytopoint®

Steroids, Atopica

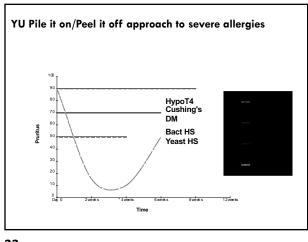
Antimicrobials

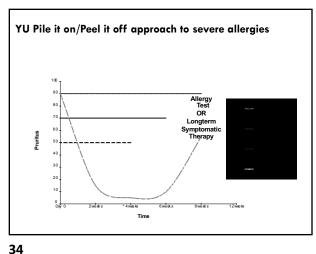
Min 4wks based on cytology

R/O Sarcoptes

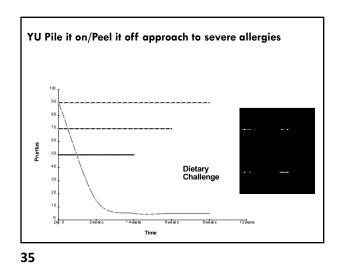
Ilsoxazolines e.g. Simparica®

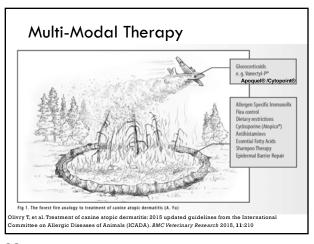
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**Bathing Pets with Atopy** 

- Use COOL/COLD H2O
- Once weekly
- Shampoo selection based on cytology

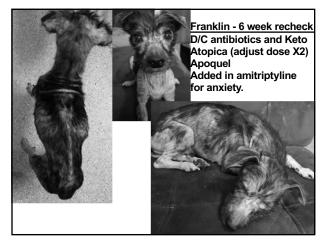
#### Benefits:

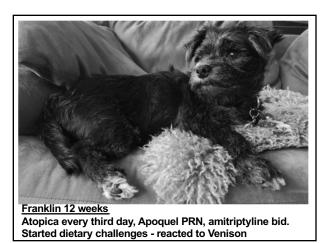
- 1)Wash off superficial allergens
- 2) Rehydrate the skin
- 3) Control bacterial & yeast overgrowth



Franklin rescued by vet Atopica /Keto daily Convenia q2weeks for 6weeks Dexamethasone Apoquel Chlorhexidine:Miconazole Hypo HP food.

37 38





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