Ringworm:

Microsporum spp,
Trichophyton spp
Candidia

Systemic fungal infections:

Aspergillus spp





ANTIMICROBIALS ANTIFUNGALS Griseofulvin

GRISEOFULVIN

(Penicillium griseofulvum)

Microtubular toxin - active uptake by fungi

- inhibits fungi (slow acting fungistatic)
- * keratin precoursor/stratum corneum



ANTIMICROBIALS ANTIFUNGALS GRISEOFULVIN (microsize, ultramicrosize)

Absorption: improved with fatty foods
Distribution: keratinised tissues, fat, liver, skeletal muscle
Liver metabolism: inactivated
induces hepatic mixed function oxidase

Excretion: urine

GRISEOFULVIN Contraindications:

- liver disease
- hypersensitivity
- pregnancy
- cats with FIV





- teratogenic
- · diarrhoea, depression, anorexia, fever
- · anaemia, leukopaenia, neutropenia
- hepatotoxicity (uncommon)
- neurological effects in kittens ataxia

ANTIMICROBIALS

ANTIFUNGALS

AMPHOTERICIN B

- Polyene antibiotic

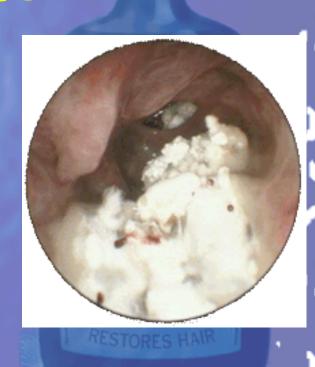
Binds to ergosterol

• fungal cell membrane



AMPHOTERICIN B - USES:

- Systemic infections
 - · Aspergillosis, etc
- Yeast infections
 - candidia



ANTIMICROBIALS

AMPHOTERICIN B

- · Not absorbed orally
- IV in 5% dextrose
- Poor distribution to CNS, eye, muscle or bone
- Elimination slow binds to lipids

· AMPHOTERICIN B - Adverse Effects.

Renal toxicity

Monitor renal function

Note: Newer formulations with liposomes or lipid complexes reduce nephrotoxicity

· AMPHOTERICIN B - Side Effects

- Fever
- · Anorexia
 - Nausea



AZOLES

- MICONAZOLE
- KETOCONAZOLE
- CLOTRIMAZOLE
- ITRACONAZOLE
- FLUCONAZOLE
- ENILCONAZOLE





ANTIMICROBIALS

AZOLES

- Inhibit ergosterol synthesis
- Broad spectrum
- Dose dependent static or cidal

AZOLES - USES

- systemic fungal infections
 - nasal aspergillosis
- yeast infections
- hyperadrenalcorticism

PHARMACY-ONLY MEDICINE FOR EXTERNAL USE ONLY

Nizoral

SHAMPOO.

MPOO. FUH THE THEMIMENT OF BRIND

KETOCONAZOLE 2% w/w
For dandruff and seborrhoeic dermatitis of the scale

PHYSICIAN'S SAMPLE

Directions: Shampoo twice weekly for 2-4 weeks, then once every 1-2 weeks to maintain control. Apply to wet hair and scalp and leave in contact for 3-5 minutes before rinsing thoroughly.



Surolan

suspension for otitis externa and skin infections in dogs and cats

ACTIVE CONSTITUENTS:
MICONAZOLE NITRATE 23.0 mg/mL
POLYMYXIN B SULPHATE
0.696 mg/mL
PREDNISOLONE ACETATE 5.0 mg/mL
For the treatment of
otitis externa and skin infections
caused by fungi, yeasts,

AZOLES - SIDE EFFECTS

- · anorexia, vomiting and/or diarrhoea
- depression
- hepatotoxicity
- suppression of adrenal & gonad steroids

SUMMARY

Griseofulvin

Fungistatic, ringworm, slow action, keratin deposition, teratogenic, fatty meals \uparrow absorption

Polyenes (amphotericin B) - nephrotoxic Azoles (ketoconazole) - systemic mycoses