

(Corneum) Superficial: *Tinea / pityriasis versicolor*

Malassezia furfur / globbosa

- 1) lipophilic yeast → under microscope: clusters of yeast with thick septate hyphae
↳ trunk + proximal limbs
- 2) Normal flora → Not contagious + high recurrence
- 3) hypo/hyper pigmentation → due to carboxylic acid
- 4) Not itchy
- 5) Dx: ① skin scrape + KOH + ink → spaghetti & meat balls
② wood's lamp → pale green
- 6) Trx: ① spontaneous
② Topical azoles, selenium sulfide for 2 weeks
- 7) correlation: seborrheic dermatitis
 - ↳ M. furfur azoles
 - ↳ increased proliferation of skin (dandruff)
 - ↳ red itchy greasy scales common in scalp.

Subcutaneous

Sporothrix schenckii

- 1) dimorphic: yeast is the pathologic form
- 2) enters through trauma
- 3) form nodules
- 4) secondary nodules form along the lymphatic drainage

Ring worm Tinea suffix Dermatophytes

- 1) Moulds
- 2) doesn't spread deep
- 3) Anthropophilic → chronic, ↑ recurrence
Zoophilic / Geophilic → Acute, ↓ recurrence
- 4) Skin trauma + humidity increase risk
- 5) Foot → pedis body → corporis groin → cruris
head → capitis Nail → unguinum hairy skin → barbae
severe capitis → favosa
- 6) hair loss with black dots / yellow, brittle, non inflamed
Not painful Nails
- 7) Red itchy lesions
- 8) Tinea pedis caused by: *T. mentagrophytes*
- 9) Dx: ① skin, hair, nail + KOH → Branching hyphae
↳ endothrix, ectothrix
spindle → microsporum (thick wall)
pencil → Trichophyton (thin wall)
club shaped with microconidia → Epidermophyton
② SDA + cotton blue → colonies
- 10) Trx: Miconazole, oral terbinafine

← cutaneous mycosis →

Candidiasis

Candida albicans

- 1) oval gram +ve budding yeast with pseudohyphae
- 2) Normal flora of upper respiratory tract, GIT, female genital tract
- 3) opportunistic
- 4) Skin → red weeping lesions + Pseudopimples rash
mouth → white patches: oral thrush, moniliasis
leukoplakia, esophagitis, gastritis
Vulvovaginitis → itchy, thick discharge: DM, AB, IUCD, pregnancy
nails → paronychia, red inflamed painful nail bed
systemic → DM, immun-supp
- 5) Finger web erosion
- 6) Dx: ① skin, vaginal discharge, exudate + KOH
→ budding yeast with pseudohyphae and terminal chlamydospores
② culture on: nutrient, SDA, corn meal
Shaws: white, creamy, waxy colonies
diff: germ tube: human serum at 37° for 3h
chlamydospores: corn meal agar
biochem: ferment glucose & maltose
- 7) Trx: skin → nystatin
oral thrush → Nystatin, fluconazole
systemic → caspofungin, amphotericin, ketokonazole