

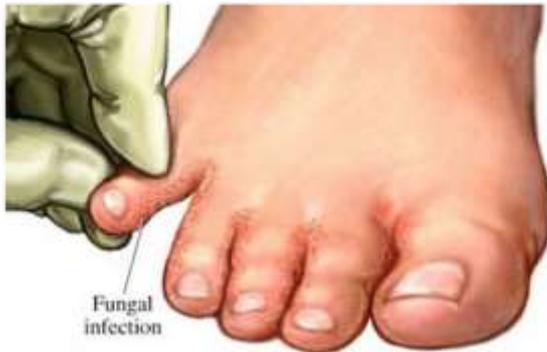
DERMATOMIKOSIS SUPERFISIALIS

S. A. NURAINIWATI

Dept. of Dermato-Venereology
Faculty of Medicine
Muhammadiyah University, Malang

Kutu Air: Penyebab, Gejala, Penularan, dan Pengobatannya

AMAZINE.CO - ONLINE POPULAR KNOWLEDGE



04 ciri penyakit kadas kurap

May Published by Cara Mengobati Kadas Kudis Panu - Categories: #penyakit kadas dan penyebabnya, #penyakit kulit kadas dan kurap, #penyakit kulit kadas dan obatnya, #penyakit panu dan kadas, #cara mengobati penyakit kadas dan kurap



ciri penyakit kadas kurap - Untuk anda yang terkena penyakit kulit yang disebabkan karena jamur kini tersedia pengobatan menggunakan obat herbal dari **De Nature** untuk cara alami menyembuhkan penyakit kadas yang aman tanpa efek samping. Pengobatan kadas dengan obat herbal ini dapat membunuh bakteri penyebab dan menghilangkan bekas penyakit kadas dan kurap dengan cepat - **ciri penyakit kadas kurap**

Pengertian Penyakit Kadas

Penyakit kulit adalah penyakit infeksi yang umum, terjadi pada orang-orang dari segala usia. Gangguan pada kulit sering terjadi karena ada faktor penyebabnya. Antara lain yaitu iklim, lingkungan, tempat tinggal, kebiasaan hidup kurang sehat, alergi dan lain-lain.



Penyakit kadas sangat menular, terutama pada anak-anak, bisa menyebabkan terbentuknya ruam merah bersisik yang kadang terasa gatal atau menyebabkan kerontokan rambut yang meninggalkan bercak-pitak.



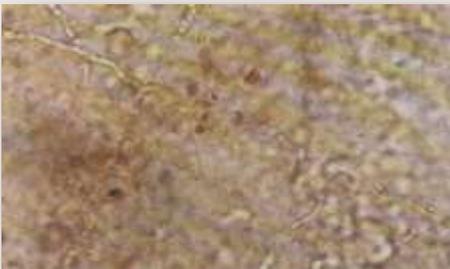


DERMATOMIKOSIS SUPERFISIALIS

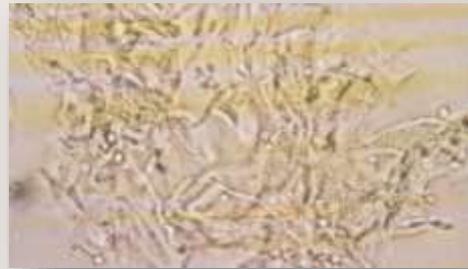
Infeksi jamur pada kulit dan mukosa

- **Dermatofitosis → *Dermatophytes***
- **Kandidiasis → *Candida Sp***
- **Pitiriasis versikolor → *Malassezia furfur***
- **Tinea nigra → *Exophiala werneckii***
- **Piedra hitam & putih → *Piedraia hortae* & *Trichosporon beigelii***

Dermatomikosis Superfisialis



Dermatophytes



Candida



Malassezia furfur



Dermatofitosis

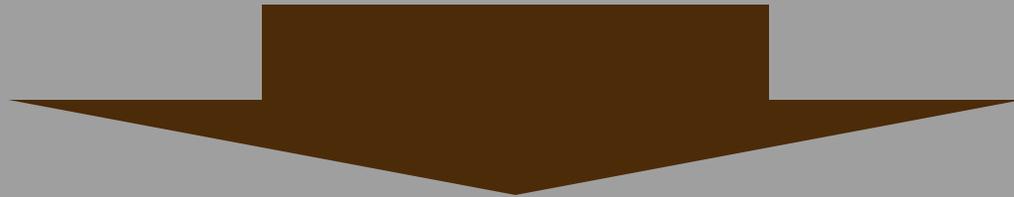


Kandidiasis



P. versikolor

**Prevalensi dermatomikosis di Indonesia masih tinggi,
meskipun jenis obat antijamur bertambah**



- Suhu, kelembaban, higiene**
- Genetik → pitiriasis versikolor**
- Iatrogenik → penggunaan antibiotik, kortikosteroid**
- Kasus imunokompromais : usia (bayi, tua), penggunaan immunosupresan, DM, HIV/AIDS, dsb.**

PATOGENESIS DERMATOFITOSIS

- **Perlekatan** : (\pm 2 jam sejak terjadi kontak)
perlekatan artrokonidia pada keratinosit
- **Penetrasi** : (4 - 6 jam)
penetrasi ke str. korneum, (kolonisasi hifa atau cabang-cabangnya dalam jaringan keratin yang mati)
- Ketahanan pejamu & faktor imunologi menghambat kemampuan jamur dermatofita melakukan penetrasi pada lapisan stratum korneum yang lebih dalam

DERMATOFITOSIS

DEFINISI

- Infeksi jamur dermatofita pada jaringan mengandung keratin
→ kulit, rambut, kuku



DERMATOFITOSIS

ETIOLOGI

- Penyebab 3 spesies :



Microsporum



Trichophyton



Epidermophyton

DERMATOFITOSIS

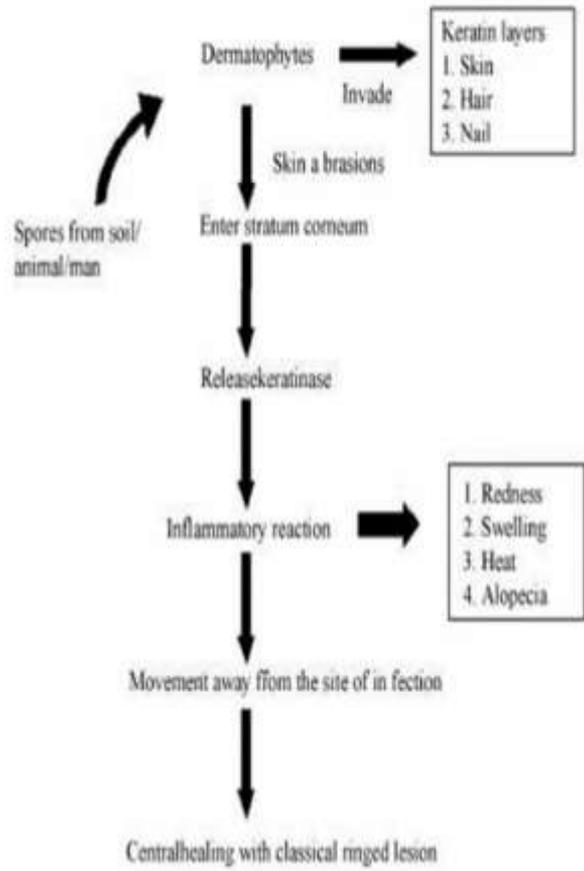
Faktor predisposisi :

- Higiene sanitasi jelek
- Daerah tropis
- Kelembaban yang tinggi
- Kontak dgn manusia, binatang/tanah terinfeksi jamur

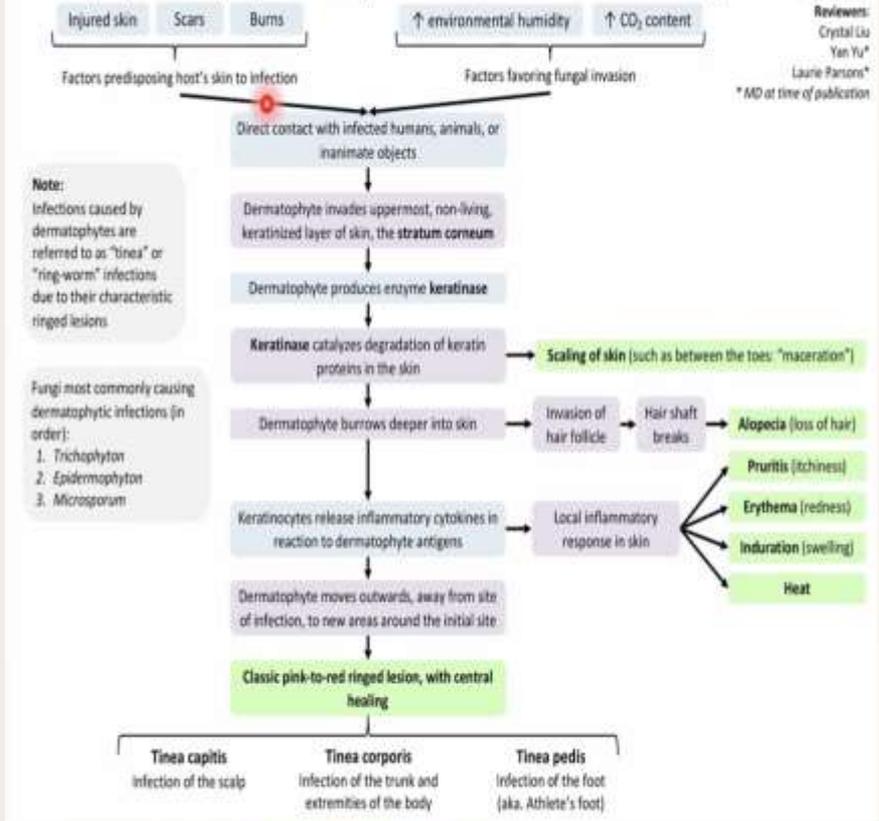
3 cara penularan :

- Antropofilik (manusia ke manusia)
- Zoofilik (binatang ke manusia)
- Geofilik (tanah ke manusia)





Tinea capitis, tinea corpora, and tinea pedis: Pathogenesis and Clinical Findings

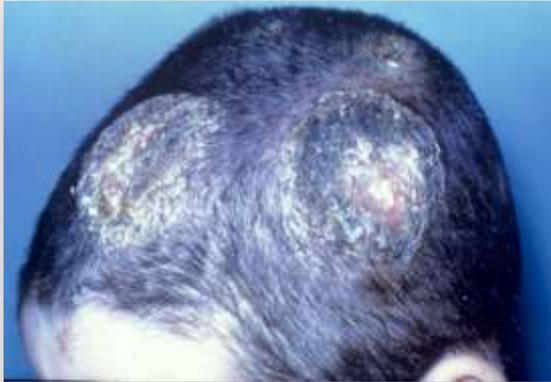


Note: Infections caused by dermatophytes are referred to as "tinea" or "ring-worm" infections due to their characteristic ringed lesions

Fungi most commonly causing dermatophytic infections (in order):
 1. Trichophyton
 2. Epidermophyton
 3. Microsporum

Author:
Kara Hawler
 Reviews:
Crystal Gu
Yan Yu*
Laurie Parsons*
 * MD at time of publication

MANIFESTASI KLINIS



Tinea capitis



Tinea barbae



Tinea kruris



Tinea corporis

Dermatofitosis



Tinea manum



Tinea pedis



Tinea unguium

TINEA KAPITIS

- ☐ Anak >>
- ☐ Manifestasi klinis :

1. *Gray Patch*

- Skuama ---- bercak pucat bersisik → rambut jadi abu-abu, tidak berkilat
- *Seborrheic form Tinea Capitis*



Manifestasi klinis tinea kapitis

2. *Black dot*

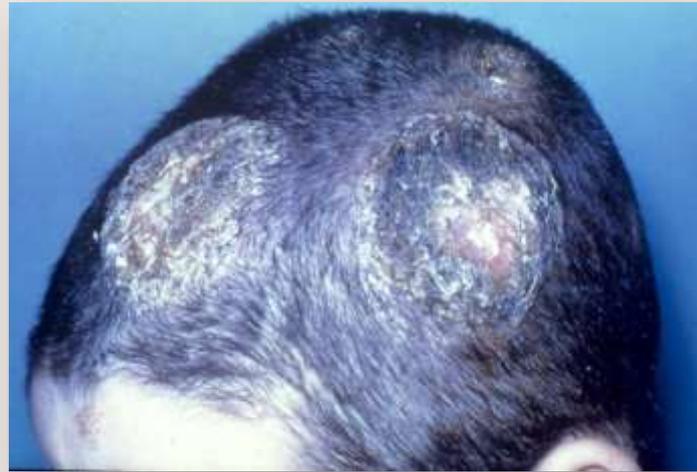
- rambut patah tepat pada muara folikel



Manifestasi klinis tinea kapitis

3. Kerion

- pustula, nodul eritematosa, inflamasi → jaringan parut → alopesia
- limfadenopati





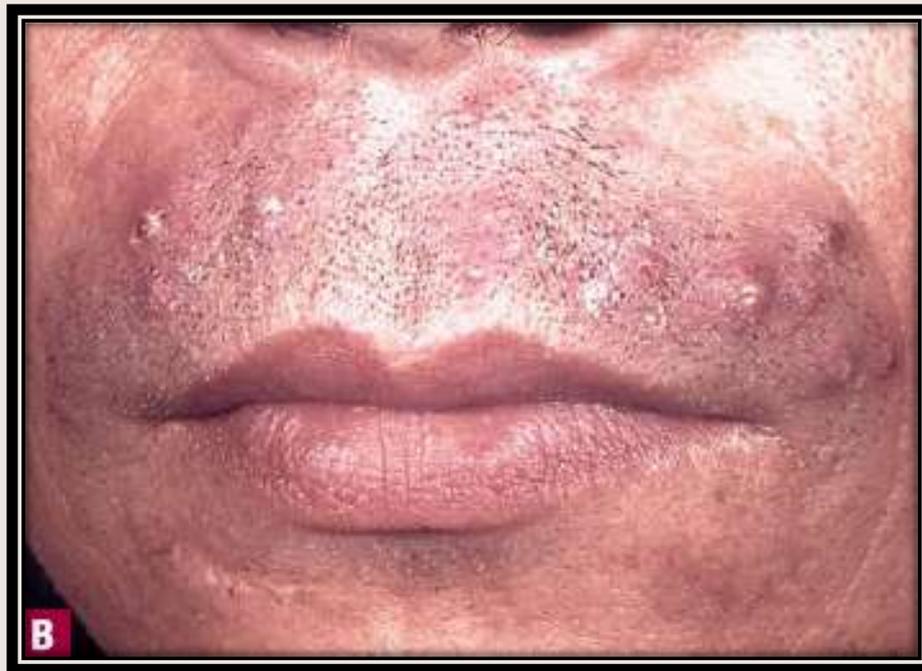
□ **TINEA BARBAE**



- Pada janggut, jambang, kumis
- Jarang terjadi
- Sering terjadi pada orang yang sering kontak dengan tanah dan hewan

TINEA BARBAE

- Gambaran klinis :
 - Gatal, rambut patah
 - Lesi eritropapuloskuamosa → tepi polisiklis



TINEA KORPORIS

- *Glabrosa* skin, **kecuali** inguinal, telapak tangan & kaki
- Bentuk :
 - ✓ Anular / *ringworm*
 - ✓ Polisiklik
- Makula eritematosa, batas jelas, tertutup skuama, tepi aktif, tengah menyembuh (*central healing*)





▲ **FIGURE 188-10** Annular tinea corporis on the thigh. Note multiple, confluent annular lesions with a scaly and partially vesicular border. This type of lesion is usually seen with zoophilic dermatophytic infection.



▲ **FIGURE 188-11** Tinea corporis with typical "ringworm-like" configuration.















Majocchi Granuloma

- **Papul/nodul perifolikular eritematosa, anular**
- **Karena pemberian steroid topikal**

TINEA KRURIS



- **Pria >>**
- **Pada inguinal, genitalia, perineum, perianal**
- **Simetris**
- **Batas jelas, tepi meninggi, tengah menyembuh → coklat kehitaman**



Tinea Pedis & Manum

- Sering pada orang dewasa yang bekerja di tempat basah / memakai sepatu tertutup (tukang cuci, petani, tentara, olahragawan)
- Lesi pada telapak tangan / kaki dan interdigital
- Manifestasi klinis :
 1. Interdigital
 2. Hiperkeratotik
 3. Vesikobulosa
 4. Ulceratif

TINEA PEDIS



Figure 160-14 Tinea pedis. **A**, Interdigital type. The interdigital space is macerated with opaque white scales and has erosions. **B**, Moccasin type. Patchy erythema and scaling in a moccasin distribution on the foot. The arciform pattern of scales is characteristic. **C**, Bullous type. Ruptured bullae, erosions and erythema on the plantar aspect of the great toe. Hyphae were detected on KOH 10% preparation obtained from epithelial cell on the roof of the inner aspect of the bulla.

TINEA MANUM



TINEA UNGUIUM

- **3 TIPE :**

- ✓ **DLSO : distal lateral subungual onikomikosis**
- ✓ **PSO : proksimal subungual onikomikosis**
- ✓ **White onikomikosis**
- ✓ **Lain lain : Total distropic**





Figure 188-14 Tinea unguium. **A.** Distal subungual type. Discoloration, thickening and subungual debris of the distal aspect of the toenails. **B.** Proximal subungual type. Discoloration and thickening of the proximal nail in a patient with acquired immunodeficiency syndrome; Kaposi sarcoma is also seen on the fourth toe. **C.** White superficial type. Irregular opaque white patches on various parts of the nail plates.

Terapi Topikal

- Indikasi : DLSO, WSO, KI terapi sistemik
- Macam :
 1. Ciclopirox 8% lacquer : dioleskan setiap hari selama 48 minggu
 2. Amorolfine 5% lacquer : dioleskan 2x seminggu

Terapi Sistemik

Terbinafine : 250 mg setiap hari selama 6 minggu untuk kuku tangan, 12-16 minggu untuk kuku kaki

Spektrum lebih sempit → fungistatik dan fungisida terhadap dermatofita, *Aspergillus*, dan sedikit pada *Scopulariopsis*. Tidak untuk candida

Kesembuhan 50%
Kekambuhan 20%

Itraconazole : 400 mg setiap hari selama 1 minggu per bulan, dengan dosis 2 denyut untuk kuku tangan, dan minimal 3 denyut untuk kuku kaki

Spektrum lebih luas → fungistatik terhadap dermatofita, non-dermatofita, dan yeast

Kesembuhan 25%
Kekambuhan 50%

Fluconazole : 150-300 mg sekali seminggu selama 3-12 bulan **Spektrum luas** → fungistatik terhadap dermatofita, non-dermatofita, dan *Candida*

Onychomycosis

Ciclopirox
Amorolfine
Tioconazole
Efinaconazole

Adults

- Terbinafine 250 mg/day × 6 to 12 weeks
- Itraconazole 200 mg/day × 2 to 3 months, *or*
- Pulse 400 mg daily × 1 week/month × 2 to 3 months
- Fluconazole 150 to 300 mg/week × 3 to 12 months

Children

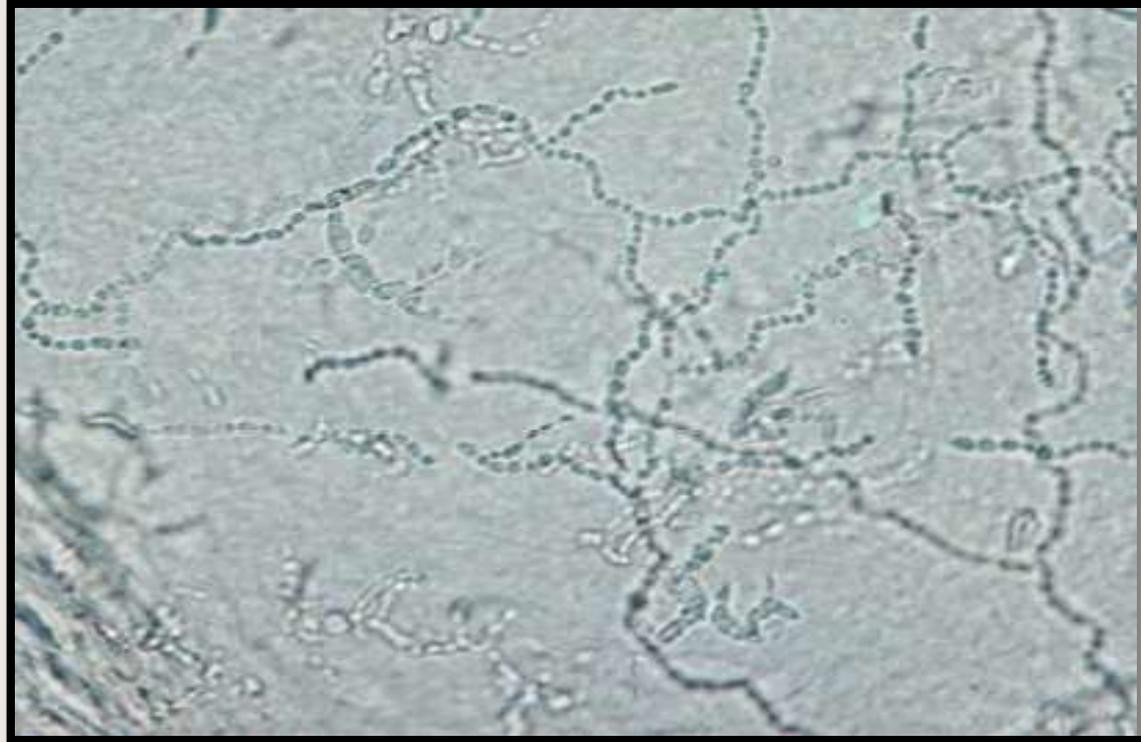
- Terbinafine daily × 6 to 12 weeks
 - Weight 10 to 20 kg: 62.5 mg/day
 - Weight 20 to 40 kg: 125 mg/day
 - Weight >40 kg: 250 mg/day
- Itraconazole 1 week/month × 2 to 3 months
 - Weight <20 kg: 5 mg/kg/day
 - Weight 20 to 40 kg: 100 mg/day
 - Weight 40 to 50 kg: 200 mg/day
 - Weight >50 kg: 200 mg twice daily
- Fluconazole 3 to 6 mg/kg/week × 3 to 6 months

PEMERIKSAAN PENUNJANG

- **Pemeriksaan mikroskopis langsung :**
 - Kerokan kulit / skuama, rambut, kuku
 - KOH 10 - 20%
 - Hifa bersepta
- **Lampu wood :**
 - Untuk tinea kapitis
 - Positif : Hijau terang kekuningan
- **Kultur :**
 - KOH negatif, klinis menyokong
 - Menentukan spesies



Pemeriksaan mikroskopis langsung



- Kerokan kulit / skuama, rambut, kuku
- KOH 10 - 20%
- Hifa bersepta

DIAGNOSIS

- **ANAMNESIS**
- **KLINIS**
- **PEMERIKSAAN PENUNJANG**
 - **KOH**
 - **KULTUR**

DIAGNOSIS BANDING

- **TINEA KAPITIS :**
 - Alopesia areata, dermatitis seboroik
 - Psoriasis
 - Impetigo
- **TINEA BARBAE :**
 - Karbunkel
 - Sikosis barbae
- **TINEA KORPORIS :**
 - Pitiriasis rosea, psoriasis vulgaris
 - Morbus Hansen
 - Lues stadium II

DIAGNOSIS BANDING

- **TINEA KRURIS :**
 - Eritrasma, dermatitis seboroik
 - Psoriasis
 - Dermatitis kontak, kandidiasis
- **TINEA UNGUIUM :**
 - Kandidiasis, psoriasis
- **TINEA PEDIS / MANUM :**
 - Lues stadium II
 - Dermatitis kontak

TERAPI

TOPIKAL

- Gol Alilamin
- Gol Imidazol



SISTEMIK

- Griseofulvin
- Golongan Alilamin
- Golongan Imidazol



TABLE 160-11
Topical Antifungal Agents

MEDICATION	CLASS/MECHANISM	FORMULATION	USE	ADMINISTRATION	WARNING/PRECAUTIONS
Amorolfine	Morpholine	Liquid, 250 mg/ 5 mL	Onychomycosis (dermatophyte or <i>Candida</i>) treatment and/or relapse prophylaxis	Apply 1 to 2 times/week after gentle nail filing × 6 to 12 months	Not available in the United States
Butenafine	Synthetic allylamine	Cream, 1%	Tinea corporis, cruris, pedis, versicolor	Apply 1 to 2 times daily for 1 to 4 weeks	Pregnancy category C Children ≥12 years of age
Ciclopirox	Inhibits DNA, RNA, and protein synthesis	Cream, 0.77% Suspension, 0.77% Gel, 0.77%	Tinea corporis, cruris, pedis, versicolor; cutaneous <i>Candida</i> ; seborrheic dermatitis	Apply twice daily	Pregnancy category B Cream and suspension, children >10 years of age Gel and shampoo, children >16 years of age Solution, children ≥12 years of age
		Shampoo, 0.1%	Seborrheic dermatitis	Apply, wait 5 to 10 minutes prior to rinsing; use 2 to 3 times/week to treat, 1 to 2 times/week to maintain	
		Solution, 8%	Onychomycosis	Apply to nail and surround- ing skin at bedtime × 7 days, then remove with rubbing alcohol and repeat	
Clotrimazole	Imidazole	Cream, 1% Ointment, 1% Solution, 1%	Tinea corporis, cruris, pedis, versicolor	Apply twice daily × 1 to 4 weeks	Pregnancy category B
Econazole	Imidazole	Cream, 1% Foam, 1%	Tinea corporis, cruris, pedis, versicolor	Apply 1 to 2 times daily × 2 to 4 weeks	Pregnancy category C Children ≥12 years of age

TABLE 160-11
Topical Antifungal Agents (Continued)

MEDICATION	CLASS/MECHANISM	FORMULATION	USE	ADMINISTRATION	WARNING/PRECAUTIONS
Efinaconazole	Triazole	Solution, 10%	Onychomycosis	Apply daily × 48 weeks	Pregnancy category C
Gentian violet	Antifungal Antibiotic	Solution, 1% and 2%	Superficial cutaneous infections, effective against some Gram+ bacteria (<i>Staphylococcus</i> sp.), fungi, some yeasts	Apply 1 to 2 times daily	Pregnancy category not classified Stains skin and clothing May tattoo open wounds
Ketoconazole	Imidazole	Cream, 2% Foam, 2% Gel, 2% Shampoo, 1% and 2%	Tinea corporis, cruris, pedis, versicolor; cutaneous <i>Candida</i> ; seborrheic dermatitis Tinea capitis adjuvant, tinea versicolor, seborrheic dermatitis	Apply 1 to 2 times daily Apply, wait 5 to 10 mins prior to rinsing; use 2 to 3 times/week to treat, 1 to 2 times/week as prophylaxis	Pregnancy category C Children ≥12 years of age
Miconazole	Imidazole	Aerosol, 2% Cream, 2% Lotion, 2% Ointment, 2% Powder, 2% Solution, 2%	Tinea corporis, cruris, pedis	Apply twice daily × 4 weeks	Pregnancy category not classified Children ≥2 years of age May increase serum concentration of vitamin K agonist
Povidone-iodine	Broad-spectrum germicidal agent	Wash, 7.5% Shampoo, 7.5%	Tinea capitis and barbae adjuvant, seborrheic dermatitis	Use twice weekly until controlled, then once weekly	Pregnancy category C Use with caution in children Hypersensitivity to iodine contraindication
Selenium sulfide	Cytostatic effects on keratinocytes	Foam, 2.25% Lotion, 2.25% Shampoo, 1% and 2.3%	Tinea capitis adjuvant, tinea versicolor, seborrheic dermatitis	Foam: twice daily Lotion: Apply, rinse after 10 minutes once daily × 1 week, then once monthly × 3 months Shampoo: Apply, wait 5 to 10 mins prior to rinsing; use 2 to 3 times/week to treat, 1 to 2 times/week as prophylaxis	Pregnancy category C Children ≥2 years of age
Terbinafine	Allylamine	Cream, 1% Gel, 1% Solution, 1%	Tinea corporis, cruris, pedis, versicolor; cutaneous candidiasis	Apply 1 to 2 times daily × 1 to 2 weeks	Pregnancy category not classified Children ≥12 years of age
Tioconazole	Imidazole	Solution, 28%	Onychomycosis	Apply twice daily × 6 to 12 months	Not available in the United States Possible allergic contact dermatitis
Tolnaftate	Distorts hyphae and mycelial growth	Aerosol, 1% Cream, 1% Lotion, 1% Powder, 1% Solution, 1%	Tinea corporis, cruris, pedis	Apply twice daily × 2 to 4 weeks	Pregnancy category not classified Children ≥2 years of age
Zinc pyrithione	Keratolytic	Bar, 2% Liquid/wash, 0.5% Shampoo, 2%	Tinea capitis and barbae adjuvant; seborrheic dermatitis	Use at least 2 times/week	Pregnancy category C

TABLE 160-9

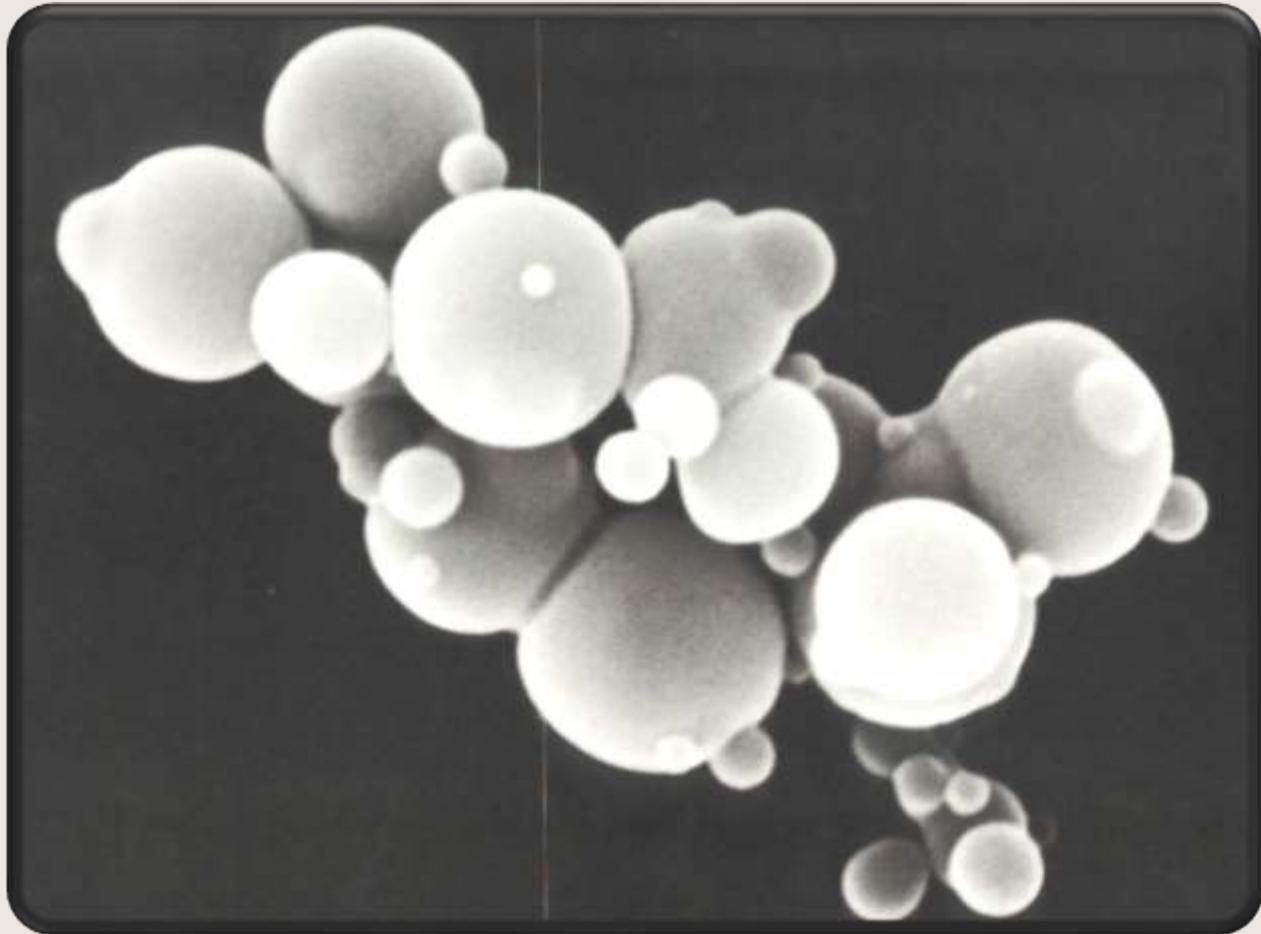
Treatment of Dermatophytes

DISEASE	TOPICAL TREATMENT	SYSTEMIC TREATMENT
Tinea capitis (requires systemic treatment)	Only as adjuvant Selenium sulfide 1% or 2.5% Zinc pyrithione 1% or 2% Povidone-iodine 2.5% Ketoconazole 2%	<p>Adults</p> <ul style="list-style-type: none"> Griseofulvin, 20 to 25 mg/kg/day × 6 to 8 weeks Terbinafine, 250 mg/day × 2 to 8 weeks Itraconazole, 5 mg/kg/day × 2 to 4 weeks Fluconazole, 6 mg/kg/day × 3 to 6 weeks <p>Children</p> <ul style="list-style-type: none"> Griseofulvin, daily × 6 to 8 weeks <ul style="list-style-type: none"> Age 1 month to 2 years: 10 mg/kg/day Age ≥2 years: 20 to 25 mg/kg/day (micro) Age ≥2 years: 10 to 15 mg/kg/day (ultramicro) Terbinafine daily × 2 to 4 weeks <ul style="list-style-type: none"> Weight <20 kg: 62.5 mg/day Weight 20 to 40 kg: 125 mg/day Weight >40 kg: 250 mg/day Itraconazole <ul style="list-style-type: none"> 3 to 5 mg/kg/day × 2 to 4 weeks 5 mg/kg/day × 1 week/month × 2 to 3 months Fluconazole (not standard therapy) <ul style="list-style-type: none"> 6 mg/kg/day × 3 to 6 weeks 6 mg/kg once weekly × 8 to 12 weeks
Tinea barbae (requires systemic treatment)	Only as adjuvant Zinc pyrithione 1% or 2% Povidone-iodine 2.5%	<ul style="list-style-type: none"> Griseofulvin 1 g/day × 6 weeks Terbinafine 250 mg/day × 2 to 4 weeks Itraconazole 200 mg/day × 2 to 4 weeks Fluconazole 200 mg/day × 4 to 6 weeks
Tinea corporis/cruis	Alylamines Imidazoles Tolnaftate Butenafine Ciclopirox Gentian violet	<p>Adults</p> <ul style="list-style-type: none"> Terbinafine 250 mg/day × 2 to 4 weeks Itraconazole 100 mg/day × 1 week Fluconazole 150 to 300 mg/day × 4 to 6 weeks Griseofulvin 500 mg/day × 2 to 4 weeks <p>Children</p> <ul style="list-style-type: none"> Terbinafine 3 to 6 mg/kg/day × 2 weeks Itraconazole 5 mg/kg/day × 1 week Griseofulvin 10 to 20 mg/kg/day × 2 to 4 weeks
Tinea pedis/manuum	Alylamine Imidazoles Ciclopirox Benzylamine Tolnaftate Undecenoic acid	<p>Adults</p> <ul style="list-style-type: none"> Terbinafine 250 mg/day × 2 weeks Itraconazole 200 mg twice daily × 1 week Fluconazole 150 mg/week × 3 to 4 weeks <p>Children</p> <ul style="list-style-type: none"> Terbinafine 3 to 6 mg/kg/day × 2 weeks Itraconazole 5 mg/kg/day × 2 weeks
Onychomycosis	Ciclopirox Amorolfine Tincnazole Efinaconazole	<p>Adults</p> <ul style="list-style-type: none"> Terbinafine 250 mg/day × 6 to 12 weeks Itraconazole 200 mg/day × 2 to 3 months, or Pulse 400 mg daily × 1 week/month × 2 to 3 months Fluconazole 150 to 300 mg/week × 3 to 12 months <p>Children</p> <ul style="list-style-type: none"> Terbinafine daily × 6 to 12 weeks <ul style="list-style-type: none"> Weight 10 to 20 kg: 62.5 mg/day Weight 20 to 40 kg: 125 mg/day Weight >40 kg: 250 mg/day Itraconazole 1 week/month × 2 to 3 months <ul style="list-style-type: none"> Weight <20 kg: 5 mg/kg/day Weight 20 to 40 kg: 100 mg/day Weight 40 to 50 kg: 200 mg/day Weight >50 kg: 200 mg twice daily Fluconazole 3 to 6 mg/kg/week × 3 to 6 months

PENYULUHAN

- **Mengeringkan daerah lipatan-lipatan sesudah mandi**
- **Pakaian, handuk sering dicuci/direndam air panas**
- **Hewan peliharaan yg terinfeksi diobati**

PITIRIASIS VERSIKOLOR



PITIRIASIS VERSIKOLOR

DEFINISI :

- Infeksi jamur superfisialis, kronis, asimtomatis, menyerang stratum korneum dari epidermis

ETIOLOGI :

- *Malassezia furfur*
= *Pityrosporum orbiculare*
= *Pityrosporum ovale*



EPIDEMIOLOGI

50%

Prevalensi di seluruh dunia dengan lingkungan panas

Ras & Jenis Kelamin

Tidak ada perbedaan

1,1%

Prevalensi di seluruh dunia di iklim dingin

Usia

Remaja & dewasa muda

Perubahan dari bentuk *budding yeast cell* (flora normal kulit)

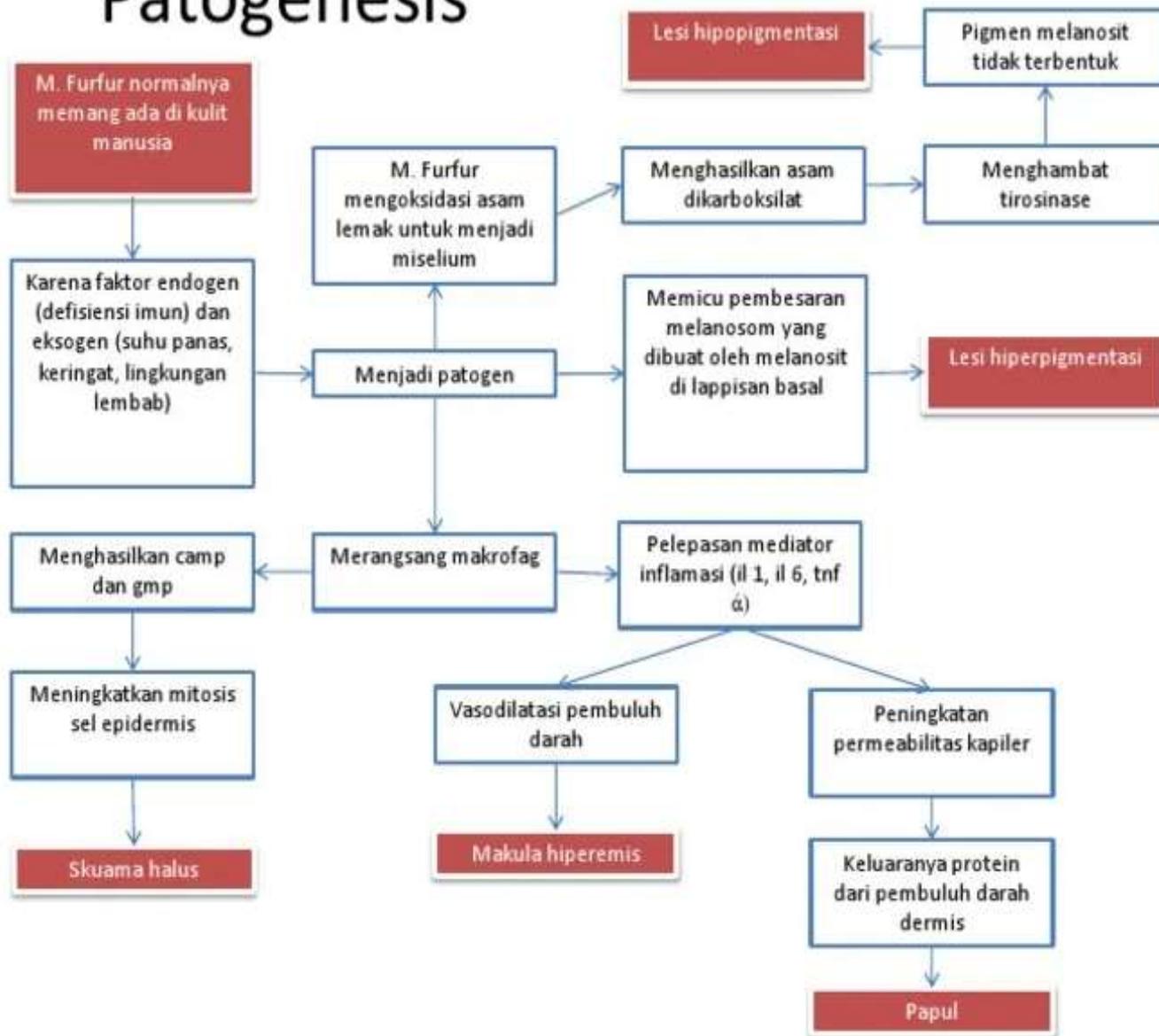
filamen hifa (patogen)

faktor-faktor predisposisi

Endogen
Genetik
Imunodefisiensi
Sindroma Cushing
Malnutrisi

Eksogen
Kelembapan
Higiene jelek
Pakaian tertutup
Pemakaian emolien

Patogenesis



GAMBARAN KLINIS

- Kadang-kadang tanpa keluhan
- Gatal bila berkeringat
- Warna putih / coklat kehitaman/ kemerahan
- Lesi kulit :
 - Makular :
soliter / saling bertemu (koalesen), skuama
 - Papular / gutata :
bulat kecil-kecil, perifolikular, skuama

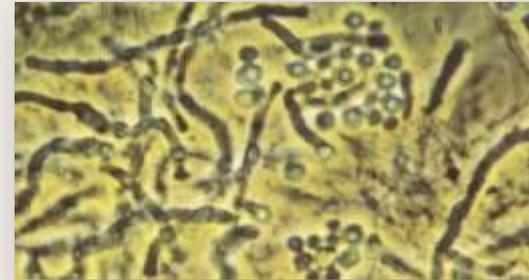






PEMERIKSAAN PENUNJANG

- **MIKROSKOPIS LANGSUNG**
 - Kerokan kulit
 - KOH 10-20%
 - *Spagetti meat ball*
- **LAMPU WOOD**
 - Kuning keemasan
- **KULTUR**



Mikroskopis langsung



Kerokan kulit

KOH 10-20% → *Spagetti meat ball*

DIAGNOSIS

- ANAMNESIS
- KLINIS
- PEMERIKSAAN PENUNJANG



DIAGNOSIS BANDING

- **HIPERPIGMENTASI**
 - Pitiriasis rosea
 - Dermatitis seboroik
 - Tinea corporis
 - Eritrasma
- **HIPOPIGMENTASI**
 - Pitiriasis alba
 - Vitiligo
 - MH tipe tuberkuloid
 - Hipopigmentasi paska inflamasi

DIAGNOSIS BANDING



Idiopathic guttate hypomelanosis

Malassezia (-)

Aging processes (>40 th)

Sun exposed area



DIAGNOSIS BANDING



***Idiopathic progressive macular
hypomelanosis***

Malassezia (-)

Diduga peran *P. acnes*

Tx : anti *P. acnes* & UVA/UVB

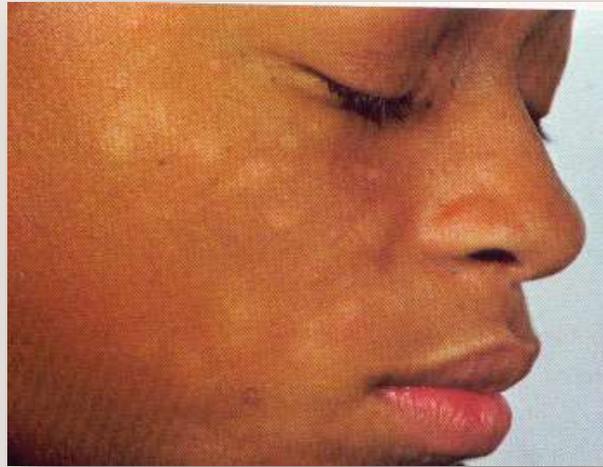


Vitiligo

Malassezia (-)

Depigmentasi

DIAGNOSIS BANDING



Pityriasis alba

Malassezia (-)

Sun exposed area

Terutama pada anak-anak



MH PB

Malassezia (-)

Gejala kardinal MH positif

TABLE 161-4

Treatment Algorithm for Cutaneous *Malassezia* Infections

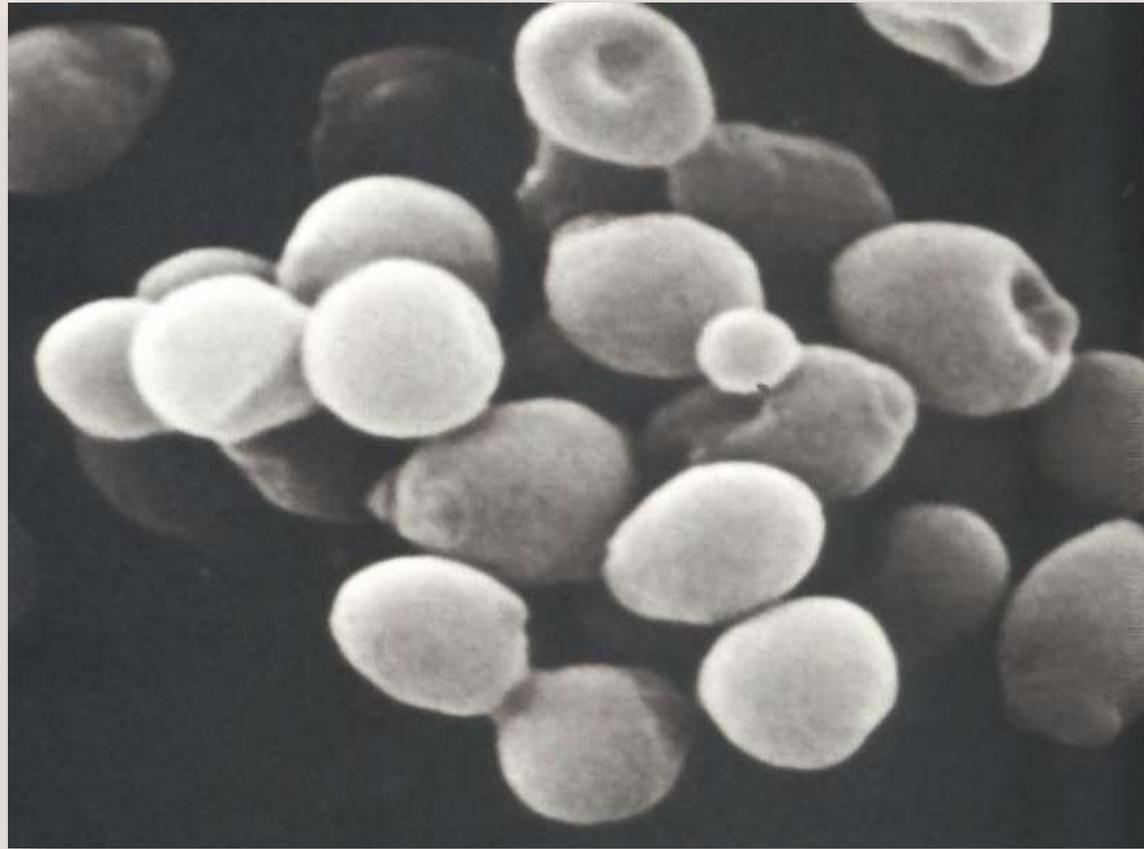
	FIRST LINE	SECOND LINE
Pityriasis versicolor	Shampoos (pyrithione zinc or selenium sulfide) Propylene glycol in aqueous solution Topical imidazoles (ketoconazole)	Oral fluconazole Oral itraconazole
<i>Malassezia</i> folliculitis	Topical antifungal ± keratolytic (propylene glycol)	Oral itraconazole

- Itrakonazol 200 mg / hr – selama 7 hari
- Flukonazol 300 mg dibagi 2 dosis (jarak 1 minggu)

PROGNOSIS

- Angka kekambuhan tinggi
- Mencegah kekambuhan :
 - ✓ Itrakonazol 200 mg / bulan selama 6 bln
 - ✓ Selenium sulfid sekali / minggu

KANDIDIASIS SUPERFISIALIS



KANDIDIASIS

- Penyakit jamur karena kandida, bersifat akut / kronis, menyerang kulit, kuku, selaput lendir dan organ
- Penyebab utama : *Candida albicans*



PATOGENESIS

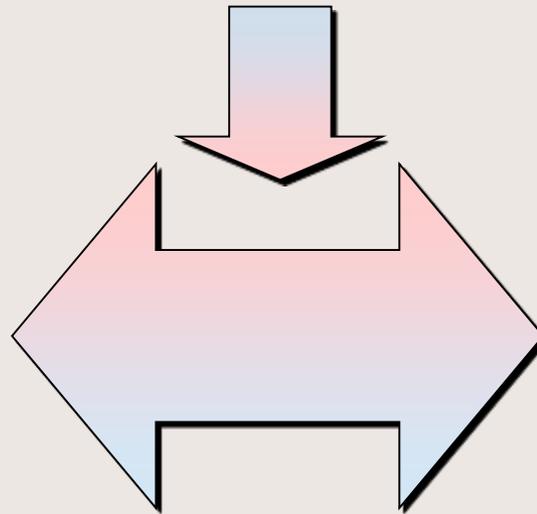
- Belum diketahui dengan pasti
- **Langkah pertama :**
perlekatan ragi *Candida* sp. pada epitel
- **Langkah kedua :**
mekanisme invasi → **enzim proteinase & fosfolipase**

PATOGENESIS

**FAKTOR
PREDISPOSISI**

**PATOGENITAS
KANDIDA**

**MEKANISME
PERTAHANAN
HOST**



PATOGENESIS



**FAKTOR
PREDISPOSISI**



Pemakaian antibiotika

Kehamilan

Diabetes mellitus

Hormonal

Imunosupresi

Kelembapan tinggi

PATOGENESIS

CANDIDA Sp.

• Spesies: > 80 spesies.

• *C. albicans* patogenisitas paling tinggi

• Daya lekat → tingkat hidrofobisitas (hipa lebih kuat)

• Dimorfisme : blastospora bentuk istirahat, hipa bentuk patogen

• Toksin : gliotoksin → menghambat fagositosis & sistem imun lokal

• Enzim fosfolipase & proteinase → perlekatan pada sel epitel & endotel, kerusakan sel pejamu, penetrasi kolonisasi *Candida*

Gambaran klinis

KANDIDIASIS INTERTRIGINOSA

- Gemuk >>, lipatan-lipatan (inguinal, aksila, infra mamma)
- Makula eritematosa, dikelilingi **lesi satelit**, ditengah bisa ada erosi, skuama





KANDIDIASIS KUKU

- Paling sering terutama pada orang yang tangannya sering kena air
- Nyeri
- Infeksi lipatan kuku proksimal → PARONIKIA
- Eritema, edema, pus putih membentuk kantong





Kandidiasis kuku



Tinea unguium



KANDIDIASIS MUKOSA

- **Oral**

Thrush :

- pseudomembran, putih - krem / keabu-abuan, lekat pada lidah, pipi, palatum, ginggiva, bibir, bila diangkat dasar kemerahan



KANDIDIASIS MUKOSA :

Perleche :

- eritema dan fisura pada sudut mulut**

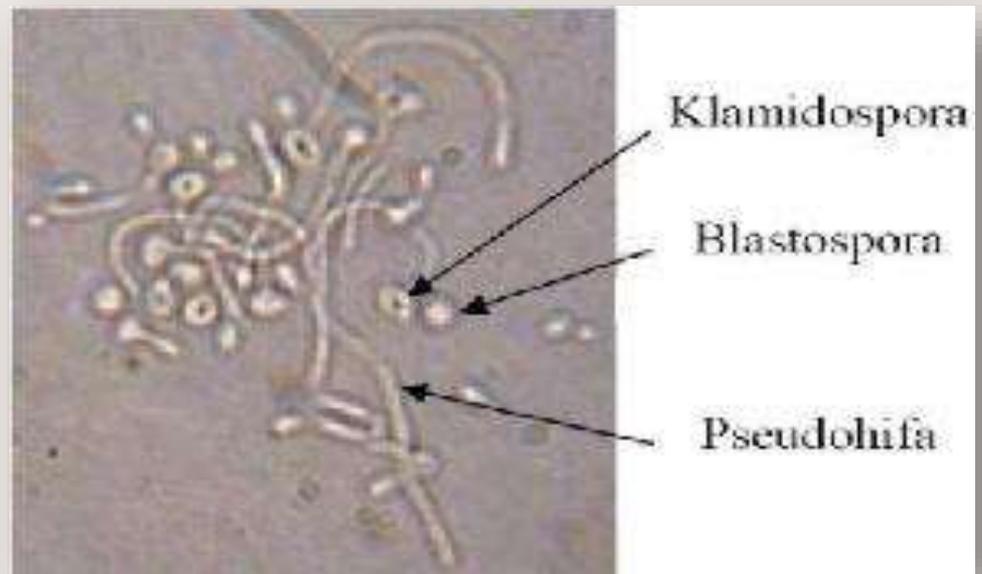


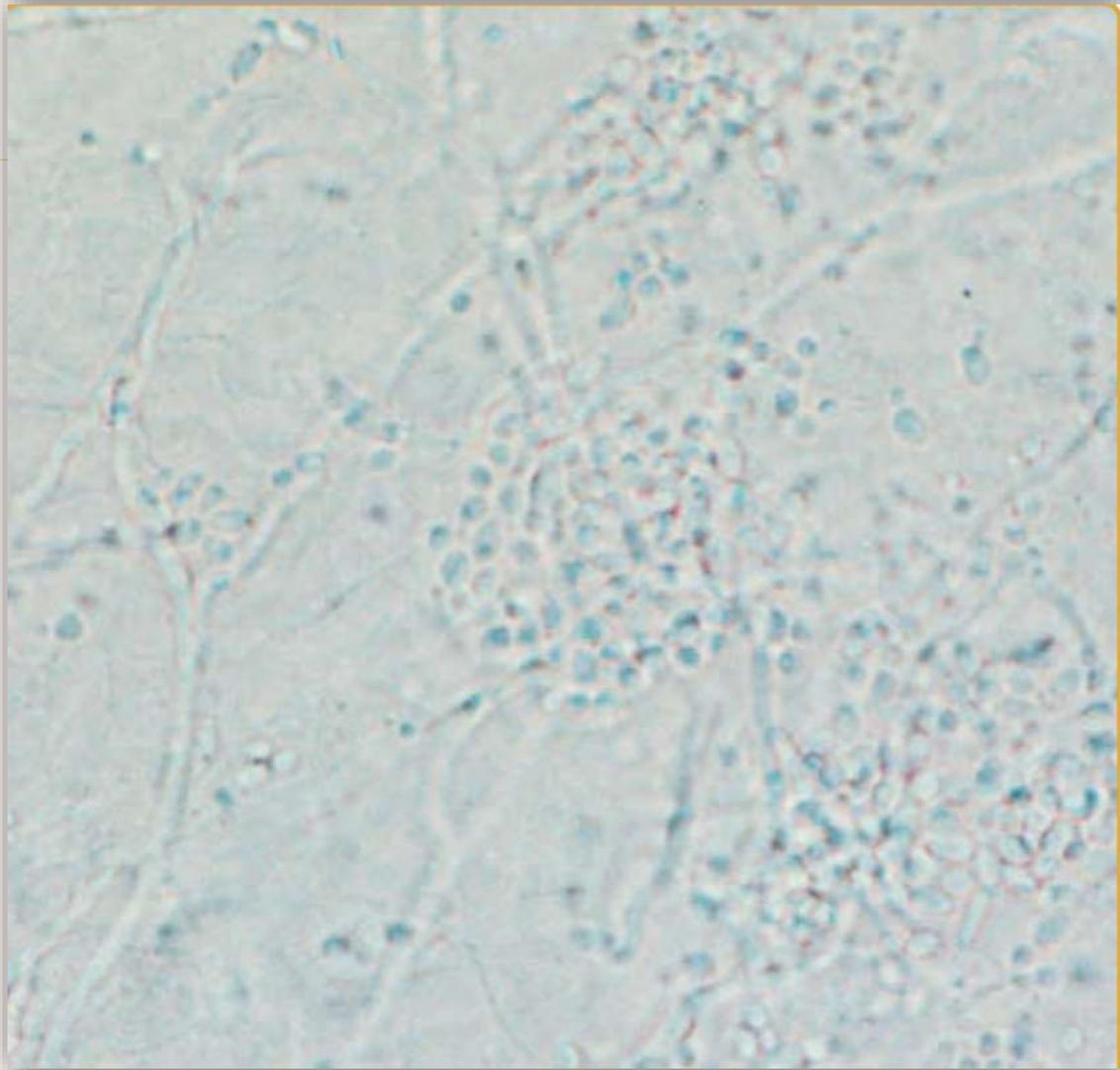
PEMERIKSAAN PENUNJANG

- Gram / KOH 10% - 20%
➔ Blastospora, pseudohyphae, yeast cell
- Kultur

DIAGNOSIS

- Anamnesis
- Klinis
- Laboratorium





DIAGNOSIS BANDING



TABLE 161-2

Candidiasis Treatment Algorithm

	FIRST LINE	SECOND LINE
Cutaneous	Topical imidazoles Topical nystatin	Oral fluconazole
Paronychia	Avoid wet work/use of gloves Topical corticosteroids Topical tacrolimus	Topical imidazole solutions Thymol 40% in ethanol Dilute acetic acid soaks
Onychomycosis	Oral itraconazole Oral fluconazole	Oral terbinafine
Oral (thrush)	Mild: <ul style="list-style-type: none"> ▪ Clotrimazole troches ▪ Miconazole buccal tablets ▪ Disinfect dentures Severe or immunosuppressed: <ul style="list-style-type: none"> ▪ Oral fluconazole 	Nystatin suspension Itraconazole, posaconazole, voriconazole, or amphotericin B solutions/suspensions
Vulvovaginitis	Topical miconazole, clotrimazole, terconazole	Oral fluconazole
Balanoposthitis	Topical antifungal creams	Low- to mid-potency topical corticosteroids (adjunctive)
Chronic mucocutaneous	Oral imidazoles Oral triazoles (voriconazole and posaconazole) Long courses often required	Resistant disease: <ul style="list-style-type: none"> ▪ Echinocandins ▪ Liposomal amphotericin ▪ Flucytosine
Disseminated (candidemia) <i>Infectious disease consultation is required</i>	Hemodynamically stable immunocompetent patients: <ul style="list-style-type: none"> ▪ Echinocandin (caspofungin, micafungin, or anidulafungin) ▪ Fluconazole Neutropenic patients: <ul style="list-style-type: none"> ▪ Empiric echinocandin ▪ Switch to fluconazole once stable 	Liposomal amphotericin

TAKE HOME MESSAGE

- Penatalaksanaan dermatomikosis superfisialis perlu diperhatikan :
 - Identifikasi faktor predisposisi & pencetus
 - Diagnosis tepat → peran pemeriksaan penunjang
 - Obat yang tersedia banyak → pemilihan harus tepat
 - Mengatasi sumber penularan



Perempuan 48 tahun pekerjaan jualan di pasar, datang dengan keluhan bercak merah di ketiak kiri sejak 3 minggu yang lalu disertai dengan rasa gatal terutama kalau berkeringat. Riwayat pengobatan sebelumnya disangkal, tetapi masih belum membaik. Riwayat DM sejak 3 th yll dan tidak terkontrol.

SOAL :

1. Sebutkan efloresensi
2. Sebutkan diagnosis dengan tepat
3. Sebutkan 2 pemeriksaan penunjang
4. Sebutkan etiologi





Terima kasih