

DIFFERENTIAL DIAGNOSIS OF

# TINEA INFECTIONS

## HIGHLIGHTS

A READY RECKONER

- > Eczema vs Psoriasis
- > Atopic Dermatitis vs Contact Dermatitis
- > Atopic Dermatitis vs Tinea Corporis
- > Tinea Versicolor vs Tinea Corporis
- > Tinea Pedis vs Contact Dermatitis

**AFDERM-MN**<sup>TM</sup>  
Cream  
Hydrocortisone 1%, Miconazole Nitrate 2% & Mometasone Furoate 0.1%

**AFDERM**<sup>TM</sup> **Plus**  
Cream  
Clofazimine 50mg, Propolis, Miconazole Nitrate & Neomycin Sulphate Cream

**AFDERM**<sup>TM</sup>  
Capsules  
Isotretinoin 150/200 mg

In Tinea infection

**AFDERM™**  
Itraconazole 100 / 200 mg Capsules



**Tinea Corporis**



200 mg / day 1-2 weeks

**Tinea Cruris**



200 mg / day 1-2 weeks

**Tinea barbae**



100 mg OD for 2 weeks

**Tinea pedis**



100-200 mg / day 2-4 weeks

**Tinea Manuum**



100 mg / twice a day for 15-30 days

**Tinea Capitis**



100 mg BD for 2 weeks

**Oral Candidiasis**



100 mg OD for 15 days  
200 mg OD for 7 days  
200 mg OD for 15 days (in AIDS)

**Tinea Versicolor /  
Pityriasis Versicolor**



200 mg OD for 5-7 days

**Recalcitrant  
Dermatophytosis**



100 mg BD for 1 month

**Tinea Unguium /  
Onychomycosis**



FINGER NAIL: Continuous-200 mg/OD/3 months  
TOE NAIL: Pulse - 200 mg/BD/1week for 2 months, with 3 week off  
Continuous - 200 mg / day / 3 months

In Mixed Skin Infection

**AFDERM-MN™**  
Cream  
Nadifloxacin 1%, Miconazole Nitrate 2% & Mometasone Furoate 0.1%

Dosage- Twice a Day for 1-2 weeks



In Inflammatory Tinea Infection

**AFDERM Plus™**  
Cream  
Clobetasol Propionate, Miconazole Nitrate & Neomycin Sulphate Cream

Dosage- Once a day for 1- 2 weeks



## DIFFERENTIAL DIAGNOSIS

ECZEMA

VS

PSORIASIS

Inflammatory disease

Cause

Inflammatory disease

Differentiating  
signs/symptoms

- Itchy, red and inflamed skin; may be scaly, oozing, or crusty
- **More itchy than psoriasis**

- Well-defined, raised red patches; adherent thick silvery scale
- **Skin is thicker and more inflamed than with eczema**

Location

- Insides of elbows, backs of knee, front of ankles

- Elbows, knees, scalp, face, lower back
- Palms of hands, soles of feet

Diagnosis

- Primarily clinical
- History and physical exam

- Clinical findings
- History and examination

Lab test

- Allergy testing, IgE levels, skin biopsy

- Physical exam and medical history is sufficient

## DIFFERENTIAL TREATMENT APPROACH

Corticosteroids,  
phototherapy, systemic  
treatments

Itraconazole (non-response  
to topical steroids);  
dosage: 100-200 mg/day

Medication

Light therapy,  
systemic therapy

Itraconazole (reduces skin  
irritation); dosage: 200 mg/day

Avoid eczema triggers (house dust  
mites, irritants, dietary allergens, stress)

Skin care

Personal  
hygiene

Avoid psoriasis triggers (skin injuries, stress,  
smoking and intense sun exposure)

Skin care

In Tinea infection

**AFDERM™**  
Itraconazole 100 / 200 mg Capsules



**Tinea Corporis**



200 mg / day 1-2 weeks

**Tinea Cruris**



200 mg / day 1-2 weeks

**Tinea barbae**



100 mg OD for 2 weeks

**Tinea pedis**



100-200 mg / day 2-4 weeks

**Tinea Manuum**



100 mg / twice a day for 15-30 days

**Tinea Capitis**



100 mg BD for 2 weeks

**Oral Candidiasis**



100 mg OD for 15 days  
200 mg OD for 7 days  
200 mg OD for 15 days (in AIDS)

**Tinea Versicolor /  
Pityriasis Versicolor**



200 mg OD for 5-7 days

**Recalcitrant  
Dermatophytosis**



100 mg BD for 1 month

**Tinea Unguium /  
Onychomycosis**



FINGER NAIL: Continuous-200 mg/OD/3 months  
TOE NAIL: Pulse - 200 mg/BD/1week for 2 months, with 3 week off  
Continuous - 200 mg / day / 3 months

In Mixed Skin Infection

**AFDERM-MN™**  
Cream  
Nadifloxacin 1%, Miconazole Nitrate 2% & Mometasone Furoate 0.1%

Dosage- Twice a Day for 1-2 weeks



In Inflammatory Tinea Infection

**AFDERM Plus™**  
Cream  
Clobetasol Propionate, Miconazole Nitrate & Neomycin Sulphate Cream

Dosage- Once a day for 1- 2 weeks



## DIFFERENTIAL DIAGNOSIS

### ATOPIC DERMATITIS

VS

### CONTACT DERMATITIS

Inflammatory disease

Cause

Inflammatory disease

Differentiating  
signs/symptoms

- Itchy, red and inflamed skin; may be scaly, oozing, or crusty
- **Usually symmetric lesions**

- Red rash, without clearly defined edges, swelling, stinging, pruritus
- **Asymmetric lesions**

Location

- Insides of elbows, backs of knee, front of ankles

- Body part in contact with the irritant (metals, latex rubber, scents, essential oils)

Diagnosis

- Primarily clinical
- History and physical exam

- Physical examination
- Positive exposure history to the irritant

Lab test

- Allergy testing, IgE levels, skin biopsy

- Patch testing (for relevant irritant and allergen)
- Limited role for skin biopsy

## DIFFERENTIAL TREATMENT APPROACH

Corticosteroids,  
phototherapy, systemic  
treatments

Itraconazole (non-response  
to topical steroids);  
dosage: 100-200 mg/day

Medication

Topical steroid

Ointments

Emollients

Avoid eczema triggers (house dust  
mites, irritants, dietary allergens, stress)

Skin care

Personal  
hygiene

Avoid contact with the irritant

Appropriate clothing and gloves  
to protect against irritants



In Tinea infection

**AFDERM™**  
Itraconazole 100 / 200 mg Capsules



**Tinea Corporis**



200 mg / day 1-2 weeks

**Tinea Cruris**



200 mg / day 1-2 weeks

**Tinea barbae**



100 mg OD for 2 weeks

**Tinea pedis**



100-200 mg / day 2-4 weeks

**Tinea Manuum**



100 mg / twice a day for 15-30 days

**Tinea Capitis**



100 mg BD for 2 weeks

**Oral Candidiasis**



100 mg OD for 15 days  
200 mg OD for 7 days  
200 mg OD for 15 days (in AIDS)

**Tinea Versicolor /  
Pityriasis Versicolor**



200 mg OD for 5-7 days

**Recalcitrant  
Dermatophytosis**



100 mg BD for 1 month

**Tinea Unguium /  
Onychomycosis**



FINGER NAIL: Continuous-200 mg/OD/3 months  
TOE NAIL: Pulse - 200 mg/BD/1week for 2 months, with 3 week off  
Continuous - 200 mg / day / 3 months

In Mixed Skin Infection

**AFDERM-MN™**  
Cream  
Nadifloxacin 1%, Miconazole Nitrate 2% & Mometasone Furoate 0.1%

Dosage- Twice a Day for 1-2 weeks



In Inflammatory Tinea Infection

**AFDERM Plus™**  
Cream  
Clobetasol Propionate, Miconazole Nitrate & Neomycin Sulphate Cream

Dosage- Once a day for 1- 2 weeks



## DIFFERENTIAL DIAGNOSIS

### ATOPIC DERMATITIS

VS

### TINEA CORPORIS

Inflammatory disease

Cause

Fungal infection

Differentiating signs/symptoms

- Itchy, red and inflamed skin; may be scaly, oozing, or crusty
- Less likely to have active border with central clearing

- Red, annular, scaly patch; commonly itchy
- Central clearing, active border

Location

- Insides of elbows, backs of knee, front of ankles

- Body part other than bearded area, scalp, groin, hands or feet

Diagnosis

- Primarily clinical
- History and physical exam

- Visual inspection
- Laboratory investigation

Lab test

- Allergy testing, IgE levels, skin biopsy

- Wood's light examination; KOH preparation
- Culture and antifungal sensitivity

## DIFFERENTIAL TREATMENT APPROACH

Corticosteroids,  
phototherapy, systemic  
treatments

Itraconazole (non-response  
to topical steroids);  
dosage: 100-200 mg/day

Medication

Topical and oral  
antifungals

Itraconazole 100-200  
mg/day (1-2 weeks)

Topical  
corticosteroids

Avoid eczema triggers (house dust  
mites, irritants, dietary allergens, stress)

Skin care

Personal  
hygiene

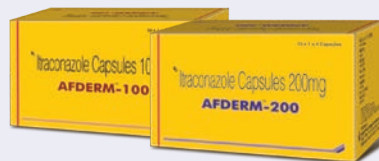
Loose-fitting garments

Avoid sharing  
garments and  
towels

Regular cleaning  
of undergarments,  
socks, and caps

In Tinea infection

**AFDERM™**  
Itraconazole 100 / 200 mg Capsules



**Tinea Corporis**



200 mg / day 1-2 weeks

**Tinea Cruris**



200 mg / day 1-2 weeks

**Tinea barbae**



100 mg OD for 2 weeks

**Tinea pedis**



100-200 mg / day 2-4 weeks

**Tinea Manuum**



100 mg / twice a day for 15-30 days

**Tinea Capitis**



100 mg BD for 2 weeks

**Oral Candidiasis**



100 mg OD for 15 days  
200 mg OD for 7 days  
200 mg OD for 15 days (in AIDS)

**Tinea Versicolor /  
Pityriasis Versicolor**



200 mg OD for 5-7 days

**Recalcitrant  
Dermatophytosis**



100 mg BD for 1 month

**Tinea Unguium /  
Onychomycosis**



FINGER NAIL: Continuous-200 mg/OD/3 months  
TOE NAIL: Pulse - 200 mg/BD/1week for 2 months, with 3 week off  
Continuous - 200 mg / day / 3 months

In Mixed Skin Infection

**AFDERM-MN™**  
Cream  
Nadifloxacin 1%, Miconazole Nitrate 2% & Mometasone Furoate 0.1%

Dosage- Twice a Day for 1-2 weeks



In Inflammatory Tinea Infection

**AFDERM Plus™**  
Cream  
Clobetasol Propionate, Miconazole Nitrate & Neomycin Sulphate Cream

Dosage- Once a day for 1- 2 weeks





## DIFFERENTIAL DIAGNOSIS

### TINEA VERSICOLOR

VS

### TINEA CORPORIS

Fungal infection

Cause

Fungal infection

- Small, finely scaling patches; red, yellow, brown or pink color
- Darker or lighter than normal skin color

Differentiating signs/symptoms

- Red, annular, scaly patch; central clearing, active border
- **Commonly itchy**

- Back, chest, neck, arms, tummy

Location

- Body part other than bearded area, scalp, groin, hands or feet

- Visual inspection
- Laboratory investigation

Diagnosis

- Visual inspection
- Laboratory investigation

- Wood's light (**yellowish fluorescence**)
- KOH preparation; skin biopsy, culture

Lab test

- Wood's light examination (**no fluorescence**)
- KOH preparation; culture and antifungal sensitivity

## DIFFERENTIAL TREATMENT APPROACH

Topical and oral antifungals

Itraconazole 200 mg/day  
(seven days)

Medication

Topical and oral antifungals

Itraconazole 100-200 mg/day (1-2 weeks)

Topical corticosteroids

Remove excess oils and dirt from the skin

Keep dry in hot and humid weather

Avoid excess exposure to sunlight

Personal hygiene

Loose-fitting garments

Avoid sharing garments and towels

Regular cleaning of undergarments, socks, and caps

In Tinea infection

**AFDERM™**  
Itraconazole 100 / 200 mg Capsules



**Tinea Corporis**



200 mg / day 1-2 weeks

**Tinea Cruris**



200 mg / day 1-2 weeks

**Tinea barbae**



100 mg OD for 2 weeks

**Tinea pedis**



100-200 mg / day 2-4 weeks

**Tinea Manuum**



100 mg / twice a day for 15-30 days

**Tinea Capitis**



100 mg BD for 2 weeks

**Oral Candidiasis**



100 mg OD for 15 days  
200 mg OD for 7 days  
200 mg OD for 15 days (in AIDS)

**Tinea Versicolor /  
Pityriasis Versicolor**



200 mg OD for 5-7 days

**Recalcitrant  
Dermatophytosis**



100 mg BD for 1 month

**Tinea Unguium /  
Onychomycosis**



FINGER NAIL: Continuous-200 mg/OD/3 months  
TOE NAIL: Pulse - 200 mg/BD/1week for 2 months, with 3 week off  
Continuous - 200 mg / day / 3 months

In Mixed Skin Infection

**AFDERM-MN™**  
Cream  
Nadifloxacin 1%, Miconazole Nitrate 2% & Mometasone Furoate 0.1%

Dosage- Twice a Day for 1-2 weeks



In Inflammatory Tinea Infection

**AFDERM Plus™**  
Cream  
Clobetasol Propionate, Miconazole Nitrate & Neomycin Sulphate Cream

Dosage- Once a day for 1- 2 weeks



## DIFFERENTIAL DIAGNOSIS

### TINEA PEDIS

VS

### CONTACT DERMATITIS

Fungal infection

Cause

Inflammatory disease

- Red and cracked skin between toes; scaly and often itchy
- Can extend to soles, heels and edges of the feet

Differentiating signs/symptoms

- Red rash; without clearly defined edges; swelling, stinging, pruritus
- **Asymmetric lesions**

- Usually between toes, on the soles, and on the sides of the feet

Location

- Body part in contact with the irritant (metals, latex rubber, scents, essential oils)

- History, clinical evaluation

Diagnosis

- Physical examination
- Positive exposure history to the irritant

- KOH wet mount, fungal culture

Lab test

- Patch testing (for relevant irritant and allergen)
- Limited role for skin biopsy

## DIFFERENTIAL TREATMENT APPROACH

Topical and oral antifungals

Itraconazole

Moisture reduction and drying agents

Medication

Topical steroid

Ointments

Emollients

Dry the toes thoroughly after bathing

Dusting with good antiseptic powder on the feet after bathing

Personal hygiene

Avoid contact with the irritant

Appropriate clothing and gloves to protect against irritants

In Tinea infection

**AFDERM™**  
Itraconazole 100 / 200 mg Capsules



**Tinea Corporis**



200 mg / day 1-2 weeks

**Tinea Cruris**



200 mg / day 1-2 weeks

**Tinea barbae**



100 mg OD for 2 weeks

**Tinea pedis**



100-200 mg / day 2-4 weeks

**Tinea Manuum**



100 mg / twice a day for 15-30 days

**Tinea Capitis**



100 mg BD for 2 weeks

**Oral Candidiasis**



100 mg OD for 15 days  
200 mg OD for 7 days  
200 mg OD for 15 days (in AIDS)

**Tinea Versicolor /  
Pityriasis Versicolor**



200 mg OD for 5-7 days

**Recalcitrant  
Dermatophytosis**



100 mg BD for 1 month

**Tinea Unguium /  
Onychomycosis**



FINGER NAIL: Continuous-200 mg/OD/3 months  
TOE NAIL: Pulse - 200 mg/BD/1week for 2 months, with 3 week off  
Continuous - 200 mg / day / 3 months

In Mixed Skin Infection

**AFDERM-MN™**  
Cream  
Nadifloxacin 1%, Miconazole Nitrate 2% & Mometasone Furoate 0.1%

Dosage- Twice a Day for 1-2 weeks







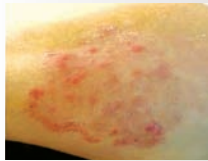

In Inflammatory Tinea Infection

**AFDERM Plus™**  
Cream  
Clobetasol Propionate, Miconazole Nitrate & Neomycin Sulphate Cream

Dosage- Once a day for 1- 2 weeks



## SUMMARY

CLINICAL PRESENTATION	Psoriasis	Eczema (Atopic dermatitis)	Contact dermatitis	Tinea pedis	Tinea corporis	Tinea versicolor
						
	<ul style="list-style-type: none"> <li>Well-defined, raised red patches; adherent thick silvery scale</li> <li>Mild itching</li> </ul>	<ul style="list-style-type: none"> <li>Itchy, red and inflamed skin</li> <li>May be scaly, oozing, or crusty</li> </ul>	<ul style="list-style-type: none"> <li>Red rash, often without clearly defined edges</li> <li>Swelling, stinging, pruritus</li> <li>Asymmetric lesions</li> </ul>	<ul style="list-style-type: none"> <li>Red and cracked skin between toes</li> <li>Scaly and often itchy</li> <li>Can extend to soles, heels and edges of the feet</li> </ul>	<ul style="list-style-type: none"> <li>Red, annular, scaly patch</li> <li>Commonly itchy</li> <li>Central clearing, active border</li> <li>Single or multiple lesions</li> </ul>	<ul style="list-style-type: none"> <li>Small, finely scaling patches</li> <li>Red, yellow, brown or pink color</li> <li>Darker or lighter than normal skin color</li> </ul>
TREATMENT	<ul style="list-style-type: none"> <li>Light therapy, systemic therapy</li> <li>Itraconazole (reduces skin irritation); dosage: 200 mg/day</li> </ul>	<ul style="list-style-type: none"> <li>Itraconazole (non-response to topical steroids); dosage: 100-200 mg/day</li> <li>Corticosteroids, systemic treatments</li> </ul>	<ul style="list-style-type: none"> <li>Topical steroid</li> <li>Ointments</li> <li>Emollients</li> </ul>	<ul style="list-style-type: none"> <li>Topical and oral antifungals</li> <li>Itraconazole</li> <li>Moisture reduction and drying agents</li> </ul>	<ul style="list-style-type: none"> <li>Topical and oral antifungals</li> <li>Itraconazole 100-200 mg/day (1-2 weeks)</li> </ul>	<ul style="list-style-type: none"> <li>Topical and oral antifungals</li> <li>Itraconazole 200 mg/day (seven days)</li> </ul>

**References:** 1. Psoriasis vs. Eczema: How to Tell the Difference. Available at: <https://www.webmd.com/skin-problems-and-treatments/psoriasis/psoriasis-or-eczema#1->. Accessed on 09-01-2019. 2. Atopic dermatitis. Available at: <https://online.epocrates.com/diseases/8735/Atopic-dermatitis-Differential-Diagnosis>. Accessed on 09-01-2019. 3. Thomsen SF. *ISRN Allergy*. 2014;2014:354250. 4. Avner S, Nathansohn N, Trau H, et al. *JAAD*. 2005;52(3):6. 5. Clarke P. *RACGP*. 2011; 40(7): 468-73. 6. Smith CH, Barker JN. *BMJ*. 2006;333(7564):380-4. 7. Kim WB, Jerome D, Yeung J. *Can Fam Physician*. 2017;63(4):278-285. 8. Faergemann J, Diehl U, Bergfelt L, et al. *Acta Derm Venereol*. 2003;83(6):438-41. 9. Allergic contact dermatitis: Overview. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK447113/>. Accessed on 09-01-2019. 10. Dermatitis, Contact. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK459230/>. Accessed on 09-01-2019. 11. Corrales CE, Walker C, Murphy L, et al. *Am Fam Physician*. 1999;60(4):1191-8. 12. Ely JW, Rosenfeld S, Stone MS, et al. *Am Fam Physician*. 2014;90(10):702-11. 13. Hsu S, Le EH, Khoshevis MR. *Am Fam Physician*. 2001;64(2):289-97. 14. Evidence and recommendations on tinea infections. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK305423/>. Accessed on 09-01-2019. 15. Noble SL, Forbes RC. *Am Fam Physician*. 1998;58(1):163-74. 16. Boonk W, de Geer D, de Kreek E, et al. *Mycoses*. 1998;41(11-12):509-14. 17. Pityriasis rosea. Available at: <https://online.epocrates.com/u/2935279/Pityriasis-rosea>. Accessed on 09-01-2019. 18. Tinea Pedis. Available at: <https://emedicine.medscape.com/article/1091684-overview>. Accessed on 09-01-2019. 19. Usatine RP, Riojas M. *Am Fam Physician*. 2010;82(3):249-55. 20. Tinea Pedis. Available at: <https://www.msdmanuals.com/professional/dermatologic-disorders/fungal-skin-infections/tinea-pedis>. Accessed on 09-01-2019.

**Disclaimer:** The contents of this scientific issue have been developed by Passi HealthCom Pvt. Ltd. (formerly Passi Publications Pvt. Ltd.) exclusively for Anglo-French Drugs & Industries Ltd. Although great care has been taken in compiling and checking the information, the authors, Passi HealthCom Pvt. Ltd. and its agents and sponsors shall not be responsible, or in anyway liable for any errors, omissions or inaccuracies in this publication whether arising from negligence or otherwise, however, or for any consequences arising therefrom.

In Tinea infection

**AFDERM™**  
Itraconazole 100 / 200 mg Capsules



**Tinea Corporis**



200 mg / day 1-2 weeks

**Tinea Cruris**



200 mg / day 1-2 weeks

**Tinea barbae**



100 mg OD for 2 weeks

**Tinea pedis**



100-200 mg / day 2-4 weeks

**Tinea Manuum**



100 mg / twice a day for 15-30 days

**Tinea Capitis**



100 mg BD for 2 weeks

**Oral Candidiasis**



100 mg OD for 15 days  
200 mg OD for 7 days  
200 mg OD for 15 days (in AIDS)

**Tinea Versicolor /  
Pityriasis Versicolor**



200 mg OD for 5-7 days

**Recalcitrant  
Dermatophytosis**



100 mg BD for 1 month

**Tinea Unguium /  
Onychomycosis**



FINGER NAIL: Continuous-200 mg/OD/3 months  
TOE NAIL: Pulse - 200 mg/BD/1week for 2 months, with 3 week off  
Continuous - 200 mg / day / 3 months

In Mixed Skin Infection

**AFDERM-MN™**  
Cream  
Nadifloxacin 1%, Miconazole Nitrate 2% & Mometasone Furoate 0.1%

Dosage- Twice a Day for 1-2 weeks



In Inflammatory Tinea Infection

**AFDERM Plus™**  
Cream  
Clobetasol Propionate, Miconazole Nitrate & Neomycin Sulphate Cream

Dosage- Once a day for 1- 2 weeks

