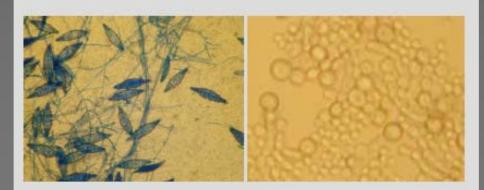
Three clinical cases Diagnostic and treatment challenges in skin and mucosal fungal infections

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Programme

Superficial Fungal Infections.

- During a 6 month period 5 children were referred to hospital with diagnoses i) therapy resistent tinea capitis ii) tinea capitis obs pro
 - Only partial efficacy from terbinatine for 3 months



Previous mycology:

Different outcomes from different laboratories

- Negative

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- Positive cultures for T. rubrum, M. canis



- Idea that some children belonged to the same kindergarten and that other children had scaly, itchy lesions
- Contact to health authorities to delimit the problem
- Focus 1 kindergarten

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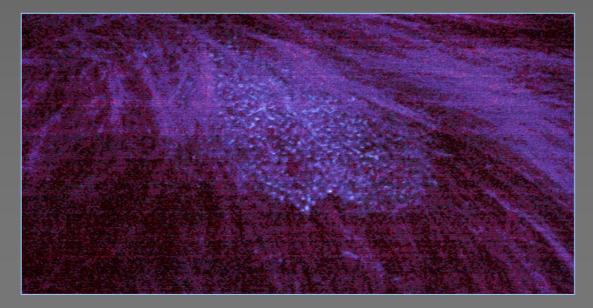
- Survey of children, family members and staff
- 98 persons examined clinically and mycologically during 1 month
- 12 patients identified:

8 tinea capitis 4 tinea corporis



• Wood's light:

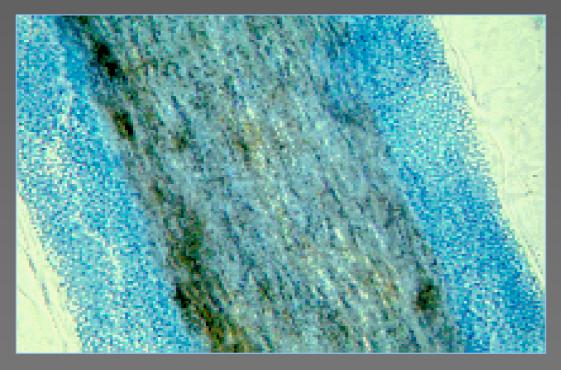
Positive with yellow-green fluorescence

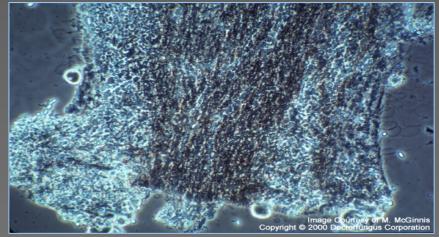






- Microscopy:
- Ectothrix small spores



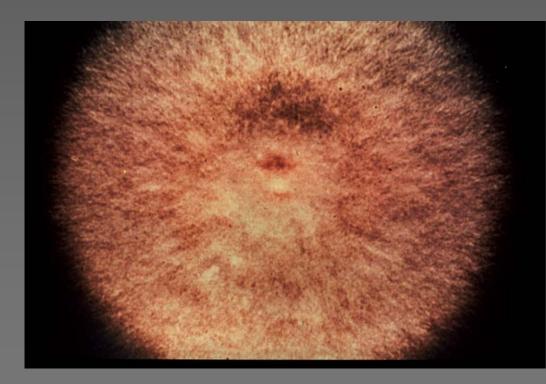


 arthroconidia mainly on the outside of the hair shaft



• Culture:

• Microsporum audouinii



- Flat, spreading culture
- Greyish white to light tan-white



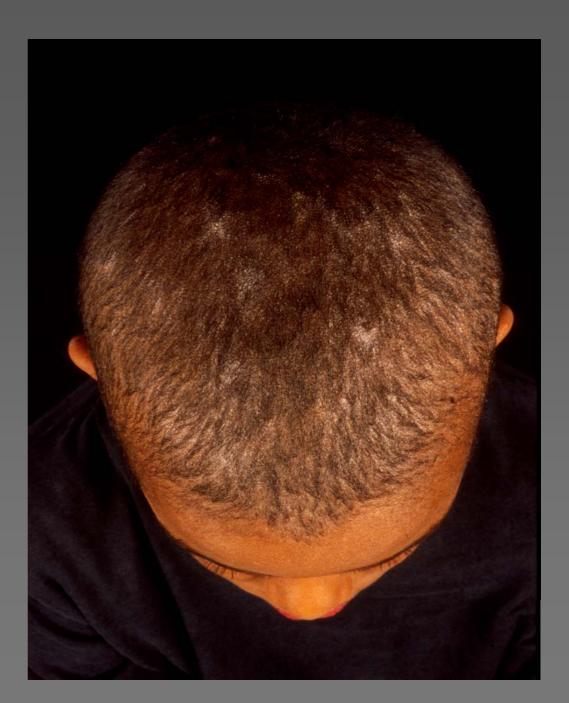


- Chlamyconidia
- Macroconidia rare, resemble
 - M. canis, more irregular in shape



- Microsporum audouinii
- Antrophofilic infection Transmitted by direct and indirect contact between humans
- Index patients
 Siblings of Danish/African
 nationality

Probably infected during visit to Tanzania



Ref: An outbreak of tinea capitis in a child care centre Merete Hædersdal, Jørgen Stenderup, Bente Møller, Tove Agner & Else Lyngsøe Svejgaard Danish Medical Bulletin 2003; 50 (1): 83-4. 12 patients identified: 8 tinea capitis 0 4 tinea corporis No healthy carriers

Treatment experiences

| Treatment experiences - M. audouinii: | | |
|---------------------------------------|---|--|
| <u>Tinea capitis</u> | | |
| Not easy | | |
| Terbinafine: | 3 months — partial efficacy | |
| Itraconazole: | Not registered for treatment of children in Dk | |
| Fluconazole: | 8-16 mg/kg/week for 9 months — 2 patients cured | |
| Griseofulvin: | Unregistered in Dk Permission from the Danish Medicines Agency 20 mg/kg/day for 3 months — all patients cured | |

Treatment experiences - M. audouinii:

<u>Tinea capitis</u>

Topical terbinafine and ketoconazole to prevent dissemination of disease

Children stayed at home from kindergarten for 2 weeks after diagnosis

<u>Tinea corporis</u>

Easy....

Responded well to topical and systemic treatments

Tinea capitis - take home messages

- Problems with spread of anthropophilic infections
 - Evt. contact to the health authorities in order to coordinate the efforts to prevent fungal transmission
- Difficulties with treatment of Microsporum infections:

Griseofulvin - 1. choice of treatment







Skin rash from terbinafine - 3 cases -

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Terbinafine:

- Allylamine with fungicidal efficacy for dermatophytes
- Systemic treatment ineffective for candida infections due to high MIC-values
- Topical treatment effective for cutaneous candidosis





Terbinafine - case 1:

 69 year-old woman with intertriginous redness in skin folds

- Systemic terbinafine given for 4 weeks due to suspected candidiasis
- After 3 weeks the patient develops generalised exanthema with intensive redness and pustules



Terbinafine - case 2:

- 44 year-old man with with abnormal nails suspected for fungal infection
- Mycology not performed
- Terbinafine given for 3 months
- The patient develops a truncal rash with erythema, scaling and annular elements
- Clinically and histologically consistent with subacute cutaneous lupus erythematosus



Terbinafine - case 3:

- 56 year-old man with psoriasis and abnormal nails suspected for fungal infection
- Mycology not performed
- Terbinafine given for 4 months



Terbinafine - case 3:

 After 4 months the patient develops itch and rash on truncus and extremities with intense erythema and papulo-pustulous elements







Always mycologic examination and diagnosis before systemic antifungal therapy !



Candidiasis:

Systemic terbinafin is not efficient for candidiasis !





Onychomycosis obs:

Terbinafine may provoke subacute cutaneous lupus erythematosus !

Case 3:



Psoriasis:

Psoriasis nails may be misdiagnosed as onychomycosis !

Adverse effects to antimycotic drugs

| Fluconazole | Gastrointestinale reactions 10% Skin rash 1 - 10%, headache, increased liver-enzymes |
|--------------|--|
| Griseofulvin | Gastrointestinale reactions Skin rash, headache, dizziness, depression |
| Itraconazole | Gastrointestinale reactions 10% Increased liver-enzymes - 4% Skin rash 1 - 10%, headache, dizziness |
| Ketoconazole | Toxic hepatitis <1% |
| Terbinafine | Gastrointestinale reactions 5% Skin rash > 10% including LE cutaneous, urticaria Reversible taste-disturbance <1% Pain from joints and muscles Liver- and bonemarrow influence |



Thank you !