



Psoriasis: Diagnosis and management

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Psoriasis

* Definition:

- Psoriasis is a common, chronic, recurrent inflammatory disease of the skin
- Characterized by circumscribed, round, erythematous, scaly patches of variable sizes, covered by *silvery white scales*



* **Epidemiology:**

- Affects about 1 – 2 % of the general population
- Common in cold countries
- Both sexes are equally affected
- Affects all ages

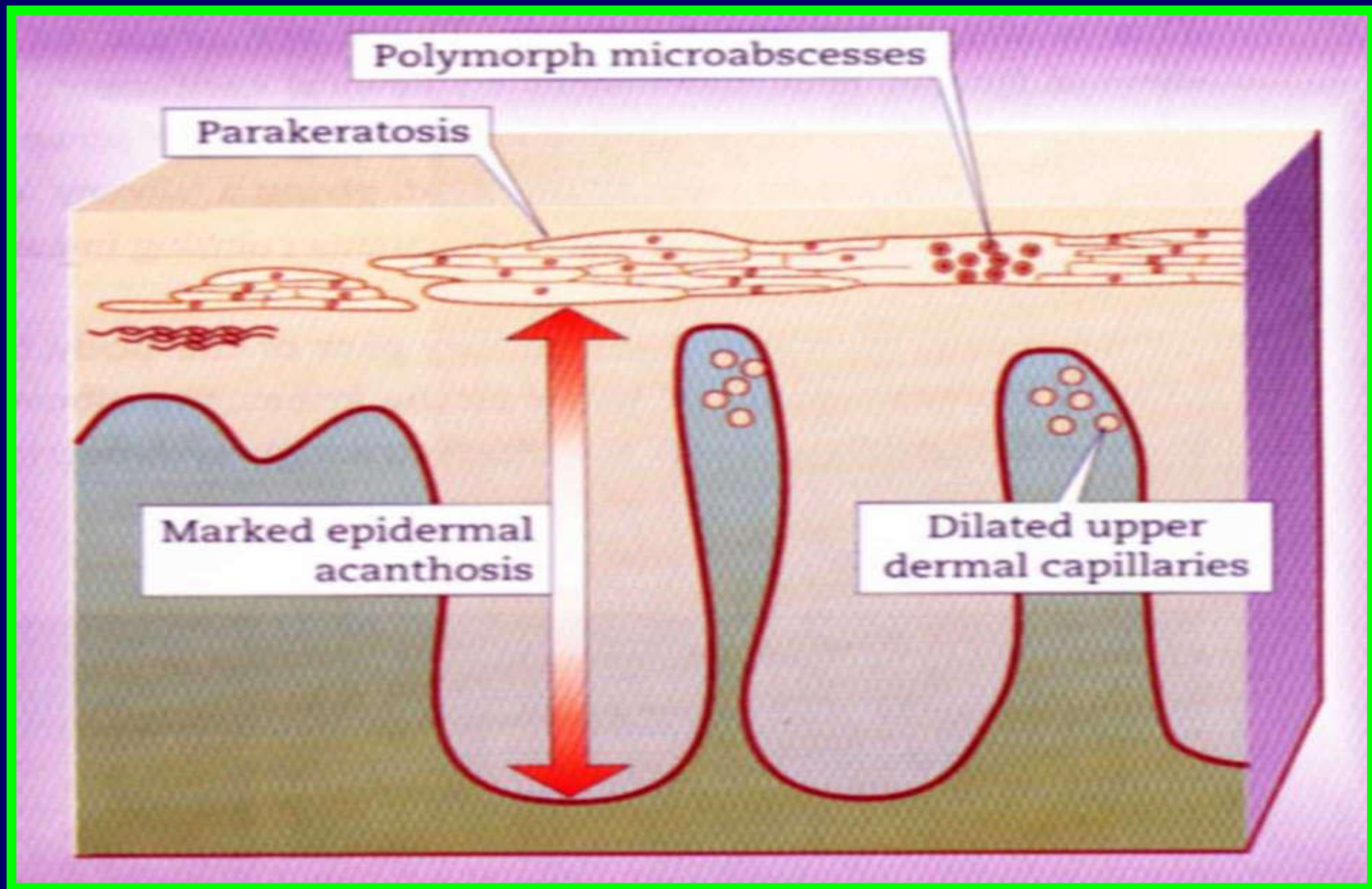
* **Pathogenesis of Psoriasis:**

Rapid proliferation of epidermal keratinocytes with not enough time for maturation resulting in *parakeratosis* and scale formation

* **Etiology:**

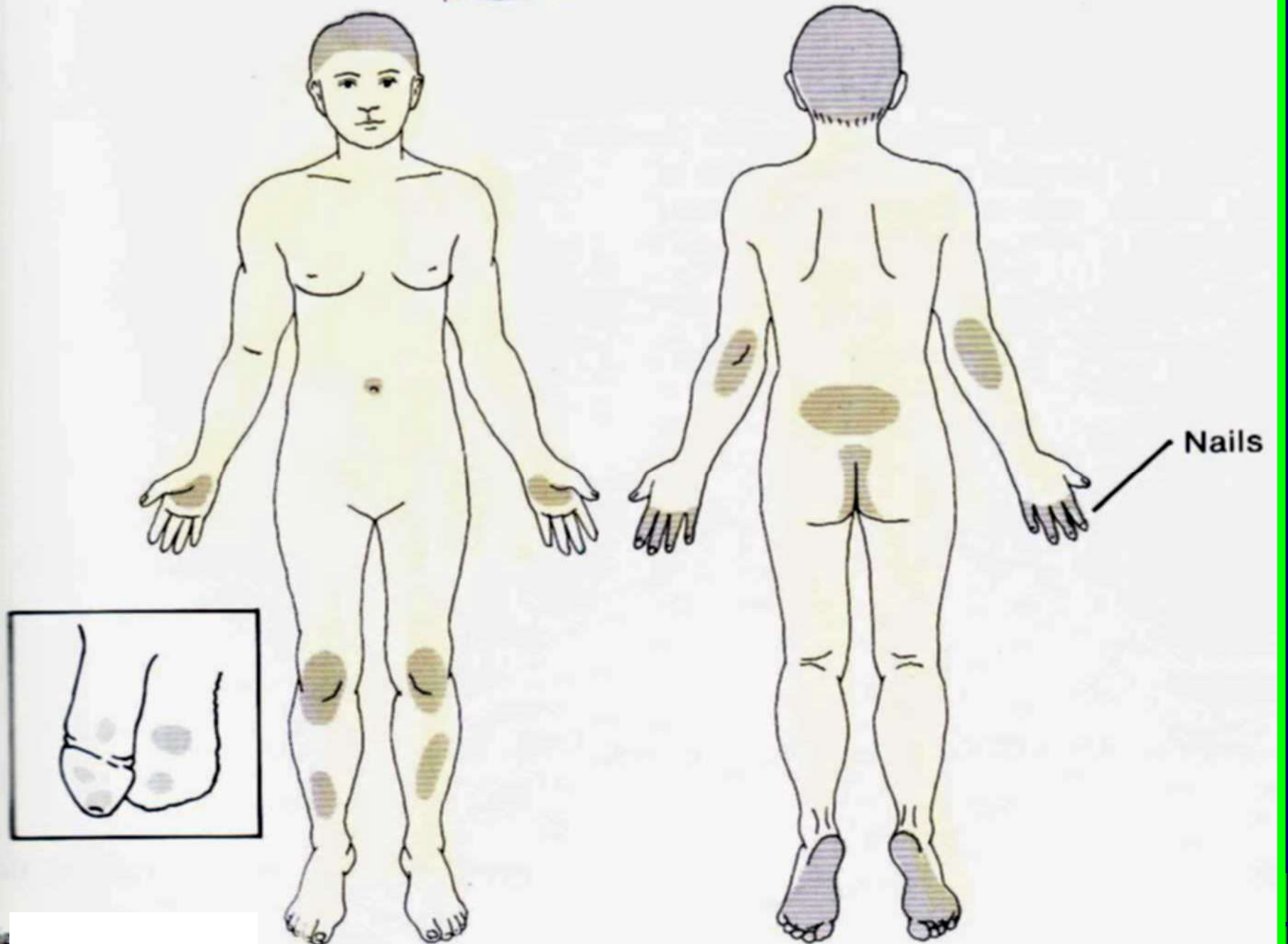
- Genetic predisposition
- Immunological abnormalities
- Infections
- Trauma

* Histopathology:



* **Clinical features of ordinary psoriasis :**

- Circumscribed, round, erythematous, scaly patches of variable sizes, covered by *silvery white scales*
- Vary from a solitary lesion to more than 100
- Affects extensors
- Bilateral and symmetrical
- The course is chronic and unpredictable

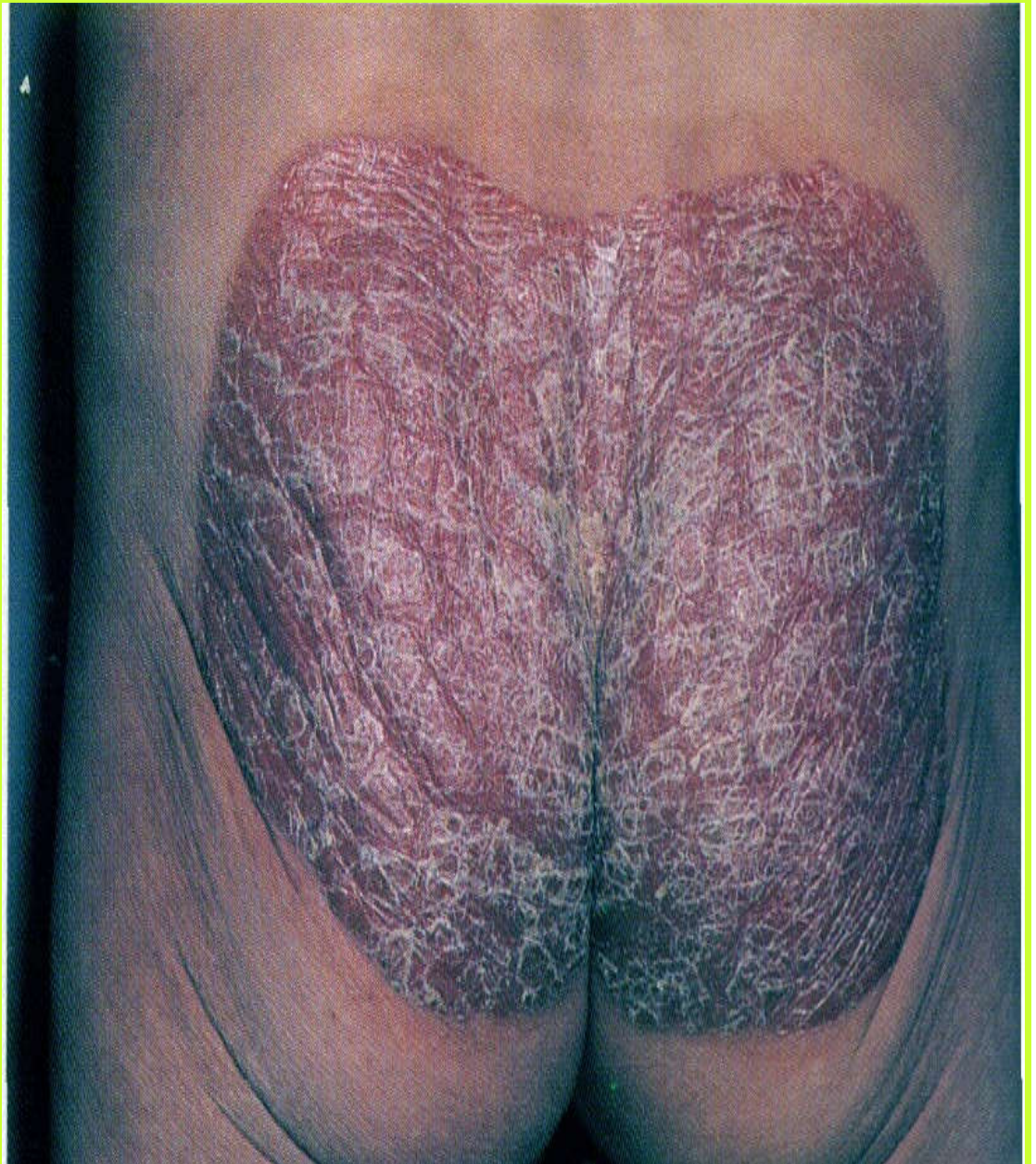
















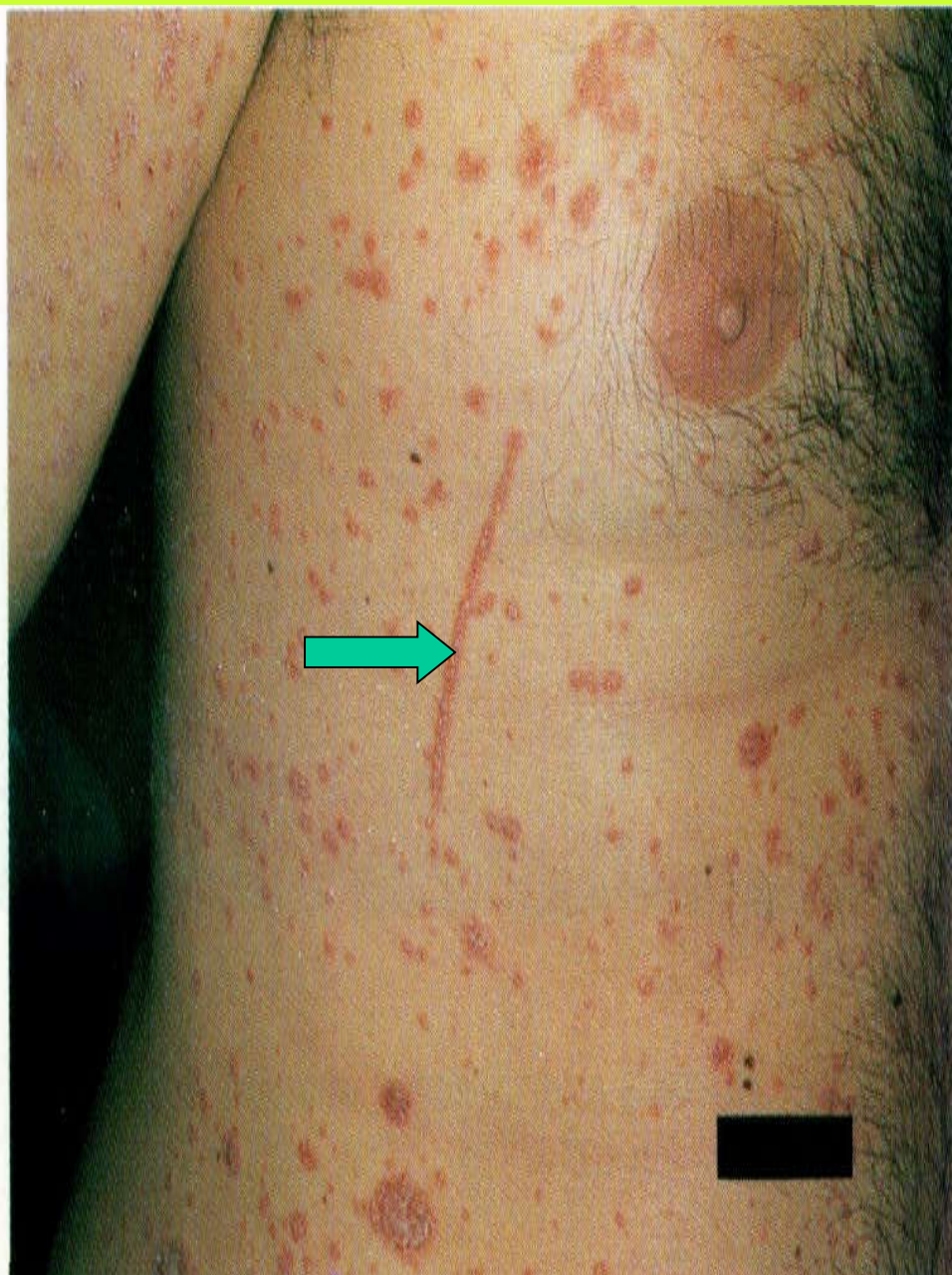
* Grattage test:



Auspitz sign

* Koebner's phenomenon:





Clinical varieties of Psoriasis

- Psoriasis vulgaris
- Guttate psoriasis
- Discoid psoriasis
- Annular psoriasis
- Flexural psoriasis
- Psoriasis of the nails
- Psoriasis of the scalp
- Pustular psoriasis
- Erythrodermic psoriasis
- Arthropathic psoriasis

Guttate psoriasis





Guttate psoriasis



Discoid psoriasis

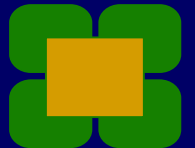
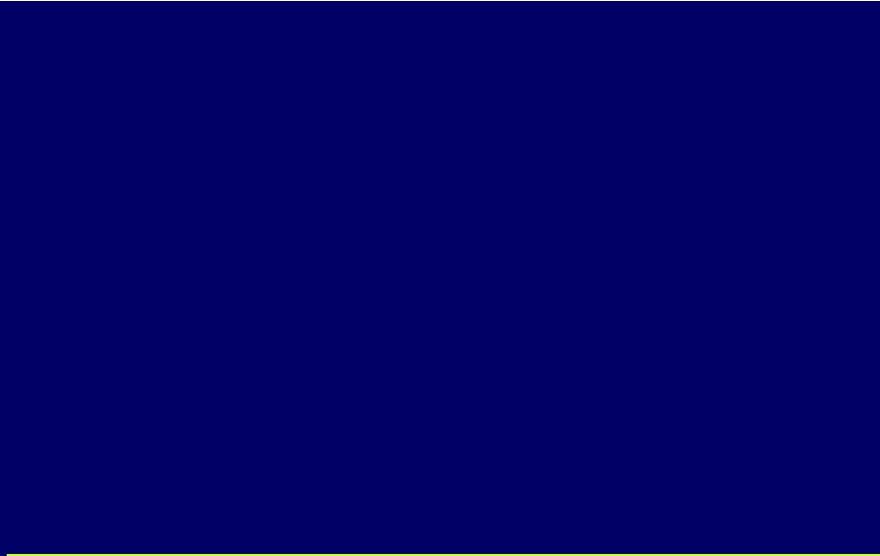


Annular Psoriasis





Psoriasis of scalp





Flexural psoriasis





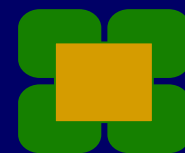
Psoriasis of soles



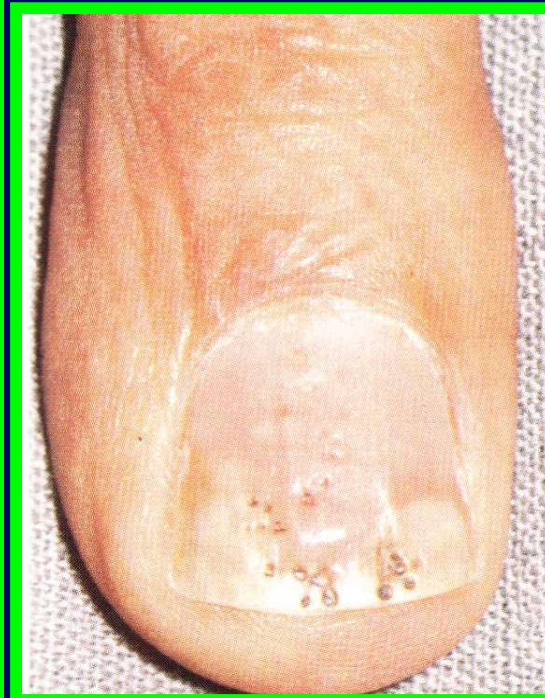


Psoriasis of palms









**Psoriasis
of nails**



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Pustular psoriasis



Pustular psoriasis





Erythrodermic
psoriasis



Erythrodermic psoriasis

DIFFERENTIAL DIAGNOSIS

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- Localised patches/plaques
 - Tinea
 - Eczema
 - Superficial basal cell carcinoma and Bowen's disease
 - Seborrhoeic dermatitis
 - Cutaneous T-cell lymphoma (mycosis fungoides)
- Guttate
 - Pityriasis rosea
 - Drug eruption
 - Secondary syphilis
- Flexural
 - Tinea
 - Eczema
 - Candidiasis
 - Seborrhoeic dermatitis
- Erythrodermic
 - Eczema
 - Cutaneous T-cell lymphoma
 - Pityriasis rubra pilaris
 - Lichen planus
 - Drug
- Palmoplantar
 - Tinea

LOCALISED PATCHES/PLAQUES

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☐ Tinea corporis

- Affects body
- Lacks symmetrical lesions
- Presence of peripheral scale and central clearing



Tinea corporis



Psoriasis

LOCALISED PATCHES/PLAQUES

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- **Discoid eczema**
 - Individualised patches more pruritic than psoriasis
 - Lack silvery scale
 - Less vivid colour than psoriasis



Discoid eczema



Psoriasis

LOCALISED PATCHES/PLAQUES

36

- **Seborrhoeic dermatitis**
 - Characterised by yellowish scaling and erythema
- Localised to many of the same areas as psoriasis
 - Diffuse scaling differs from sharply defined psoriasis plaques
 - Affects furrows of face (facial psoriasis is generally restricted to hairline)



Dermatitis



Psoriasis

GUTTATE PSORIASIS

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- **Pityriasis rosea**
- Difficult to distinguish from acute guttate psoriasis
- Presents first as single large patch, progresses to a truncal rash of multiple red scaly plaques ('Christmas tree' distribution)
- Resolves over 8–12 weeks



< Psoriasis

^ Pityriasis rosea



GUTTATE PSORIASIS

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– Secondary syphilis

- Search for characteristic primary syphilitic lesion, lymphadenopathy, and lesions of face, palm and soles
- Conduct serology and skin biopsies to confirm



< Psoriasis

^ Secondary syphilis

FLEXURAL PSORIASIS

40

– Tinea cruris

- Affects groin area
- Characterised by central clearing with advancing edge
- Non-silvery lesion with fine scale, particularly at periphery
- Lesion frequently extends more on left side



< Psoriasis

^ Tinea cruris

FLEXURAL PSORIASIS

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- Atopic eczema
 - Often associated with asthma and hay fever
 - Lacks classic psoriatic nail involvement and sharply demarcated scaly plaques



< Psoriasis

^ Atopic eczema



PALMOPLANTAR PSORIASIS

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– **Tinea manum**

- Ringworm of hands
- Fine powdery scale, particularly involving palms and palmar creases
- Usually asymmetrical



Tinea corporis



Psoriasis

MANAGING PSORIASIS

- Before starting treatment
 - Establish relationship of trust with patient
 - Provide patient with information
 - Emphasise benign nature of disease
 - Explain that psoriasis tends to be chronic and recurrent

MANAGING PSORIASIS

- Determine clinical setting before selecting treatment, considering
 - Disease pattern, severity and extent
 - Sites of disease
 - Coexistent medical conditions
 - Patient's perception of disease severity
 - Time commitments and treatment expense
 - Previous treatments for psoriasis

TREATMENT OPTIONS FOR PSORIASIS

- Stepwise approach is advised
- Treatments include:
 - General measures and topical therapy
 - Phototherapy
 - Systemic and biological therapies
- Combination therapies : may reduce toxicity and improve outcomes

TREATING PSORIASIS: GENERAL MEASURES

- Reduce/eliminate potential trigger factors:
 - Stress
 - Smoking
 - Alcohol
 - Trauma
 - Drugs
 - Infections

Treatment of Psoriasis

Topical therapy:

- Corticosteroids
- Tar preparations
- Salycilic acid ointment 3% – 5%
- Vitamin D₃ analogue (Calcipotriol)
- UVB

OTHER THERAPIES

- Phototherapy
- Systemic therapies
- Biological agents

PHOTOTHERAPY

- For psoriasis resistant to topical therapy and covering > 10% of body surface area
- Immunomodulatory and anti-inflammatory effects
- Three main types of phototherapy:
 - Broadband UVB
 - Narrowband UVB
 - PUVA (administration of psoralen before UVA exposure)
- Treatment usually administered 2–3 times/week

Systemic therapy:

Indicated for *erythrodermic, pustular or arthropathic psoriasis*

- Corticosteroids
- PUVA therapy
- Methotrexate
- Cyclosporine A
- Retinoids

BIOLOGICAL AGENTS

- Proteins derived from living organisms that exert pharmacological actions
- For adults with moderate-to-severe chronic plaque-type psoriasis who are candidates for phototherapy or systemic therapy
- Most administered sub-cutaneously

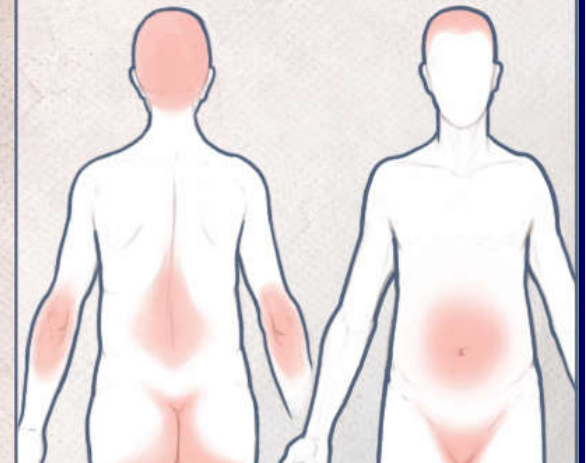
DIAGNOSIS AND MANAGEMENT OF PSORIASIS: SUMMARY

- **Chronic, inflammatory disease of skin**
- **T-cell mediated disorder**
- **Classic presentation characterised by red, scaly plaques**
- **Management should address both medical and psychological aspects**
- **Treatments include topical therapy, phototherapy, systemic therapy and biological agents**

Plaque psoriasis



Commonly affected areas



Types of treatment

Topical medication



Phototherapy



Biologics



Oral medication



Associated disorders

Psoriatic arthritis
Depression
Cardiovascular disease
Metabolic syndrome
Inflammatory bowel disease





THANK YOU

Please, don't hesitate to contact me for any further information



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