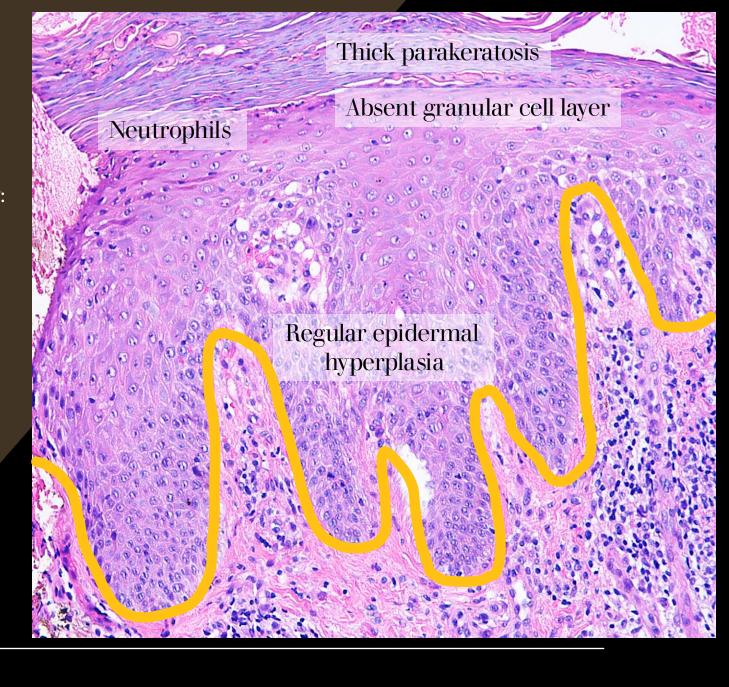
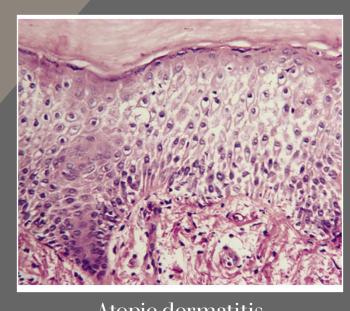


## What is psoriasiform dermatitis?

- A form of inflammatory dermatosis, characterized by: *Epidermal changes*Pattern of inflammation
- Prototype: psoriasis
   Epidermal thickening
   parakeratosis (nucleated scale)
   regular epidermal hyperplasia
   Inflammation
   neutrophils in s corneum (Munro microabscess)
   neutrophils in spinous layer (Kogoj microabscess)
   lymphocytes

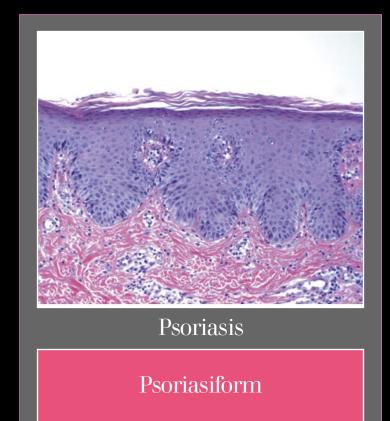


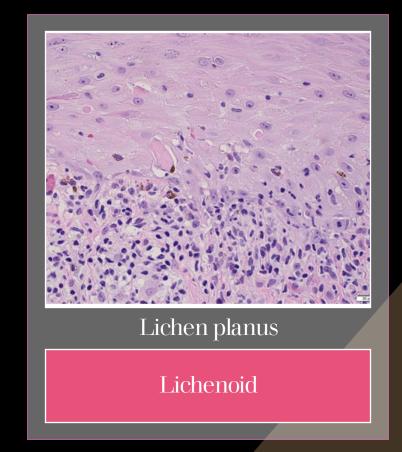
### What are inflammatory skin (dermatosis) reaction patterns?



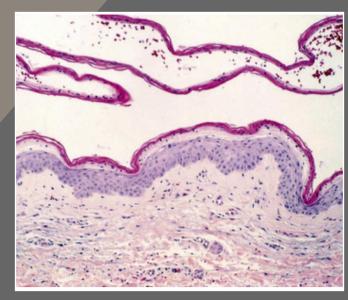
Atopic dermatitis

Spongiotic



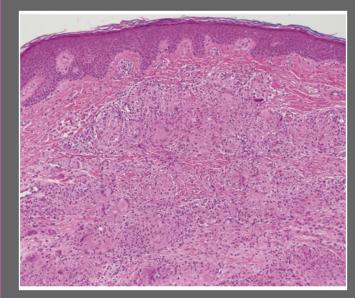


## What are inflammatory skin (dermatosis) reaction patterns?



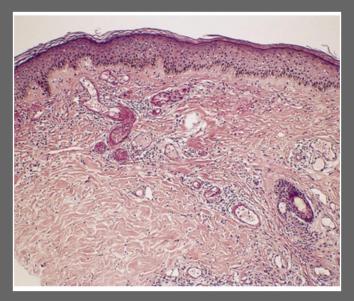
Bullous pemphigoid

Vesiculobullous



Granuloma annulare

Granulomatous



Atrophie blanche

Vasculopathic

## What are the major psoriasiform dermatoses?







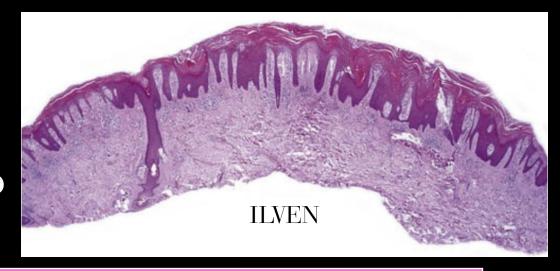








# What are 'other' psoriasiform dermatoses?



- Subacute & chronic spongiotic dermatitis
  - Chronic candidiasis & dermatophytosis
  - Erythroderma
    - Pityriasis rosea

- Inflammatory linear verrucous epidermal nevus (ILVEN)
  - Pseudoepitheliomatous hyperplasia (PEH)
    - Clear cell acanthoma
    - SCCIS (Bowen disease)

## What are 'metabolic/systemic' psoriasiform dermatoses?



Cutaneous T-cell lymphoma (mycosis fungoides)

Secondary syphilis

Lamellar ichthyosis

Bazex syndrome

Pellagra

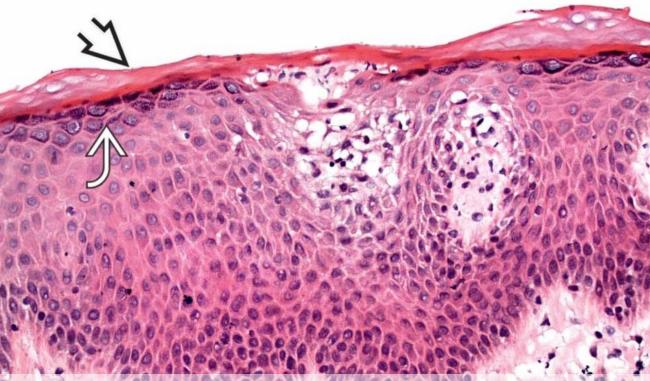
Glucagonoma

Acrodermatitis enteropathica



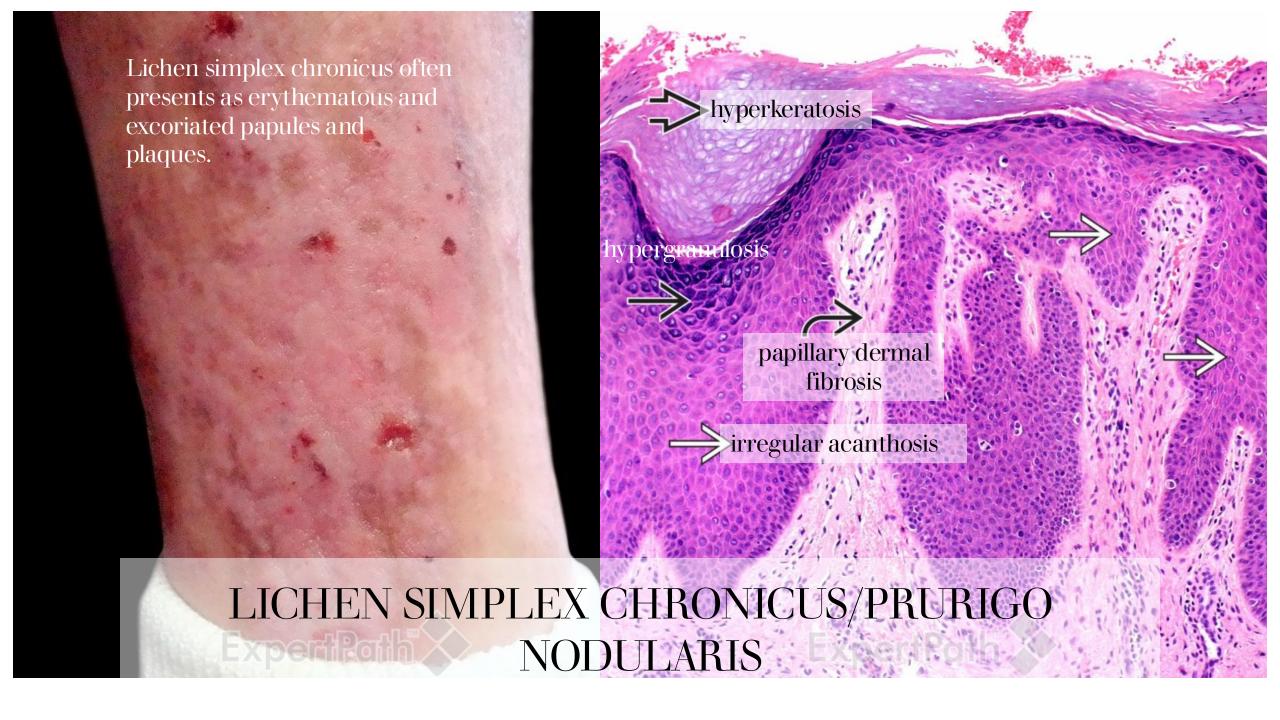
Clinical photo shows scattered erythematous papules (cyan solid arrow) with minimal scale on the lower face, neck, and upper chest. (Courtesy E. Lilly, MD.)





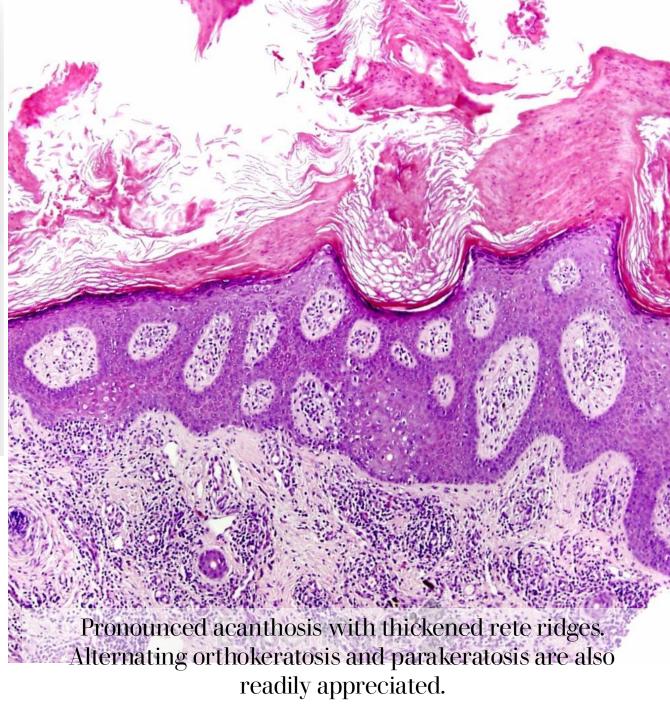
Chronic lesion shows mild spongiosis with irregular epidermal acanthosis. There is compact orthokeratosis (black open arrow) and hypergranulosis (white curved arrow), features of chronic rubbing.

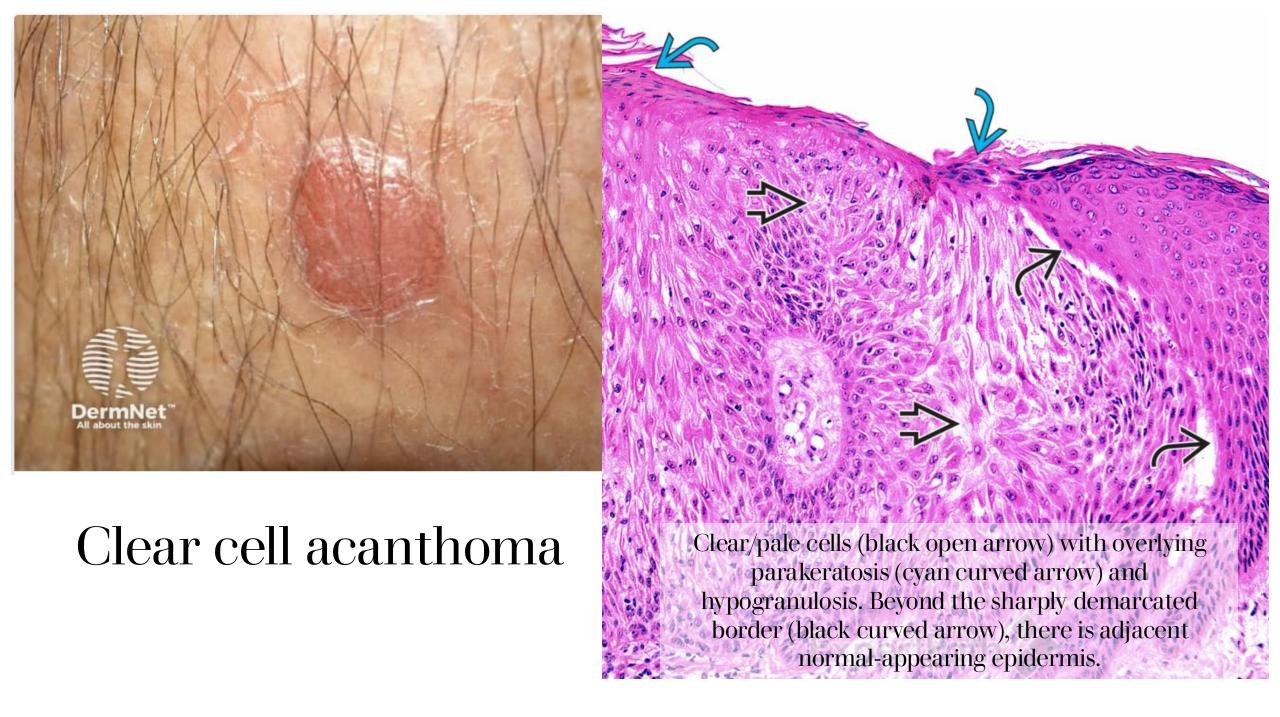
CHRONIC SPONGITOTIC DERMATITIS



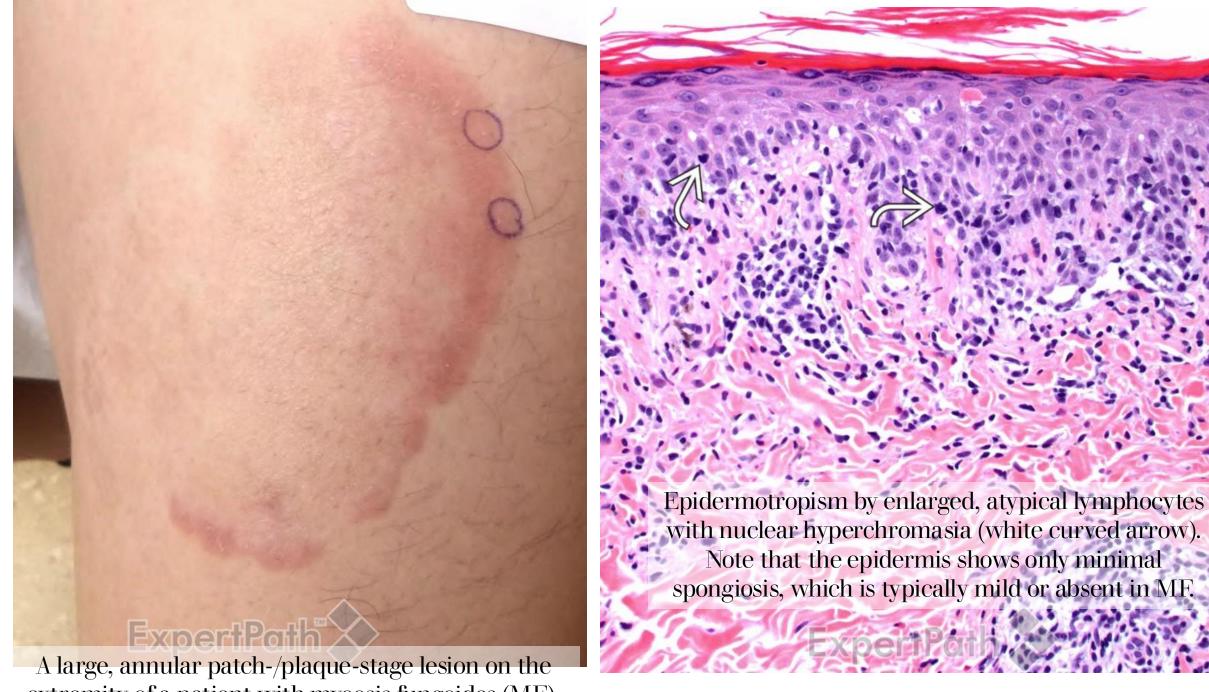


Inflammatory linear verrucous epidermal nevus (ILVEN)

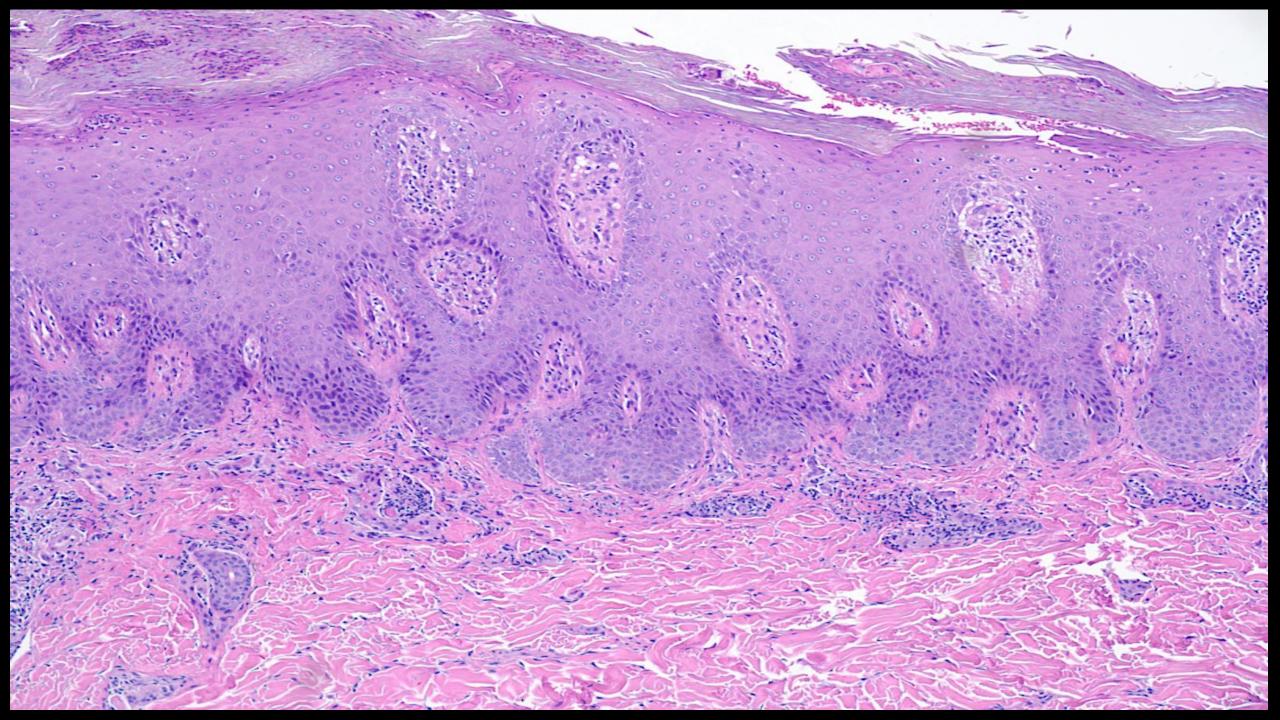






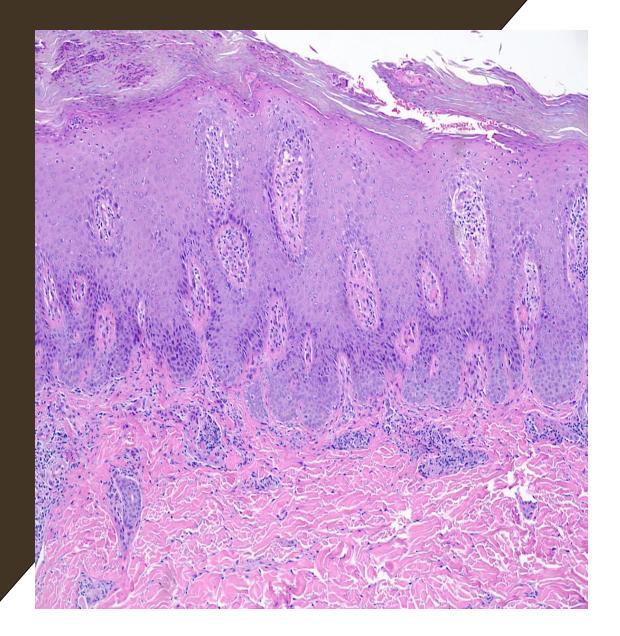


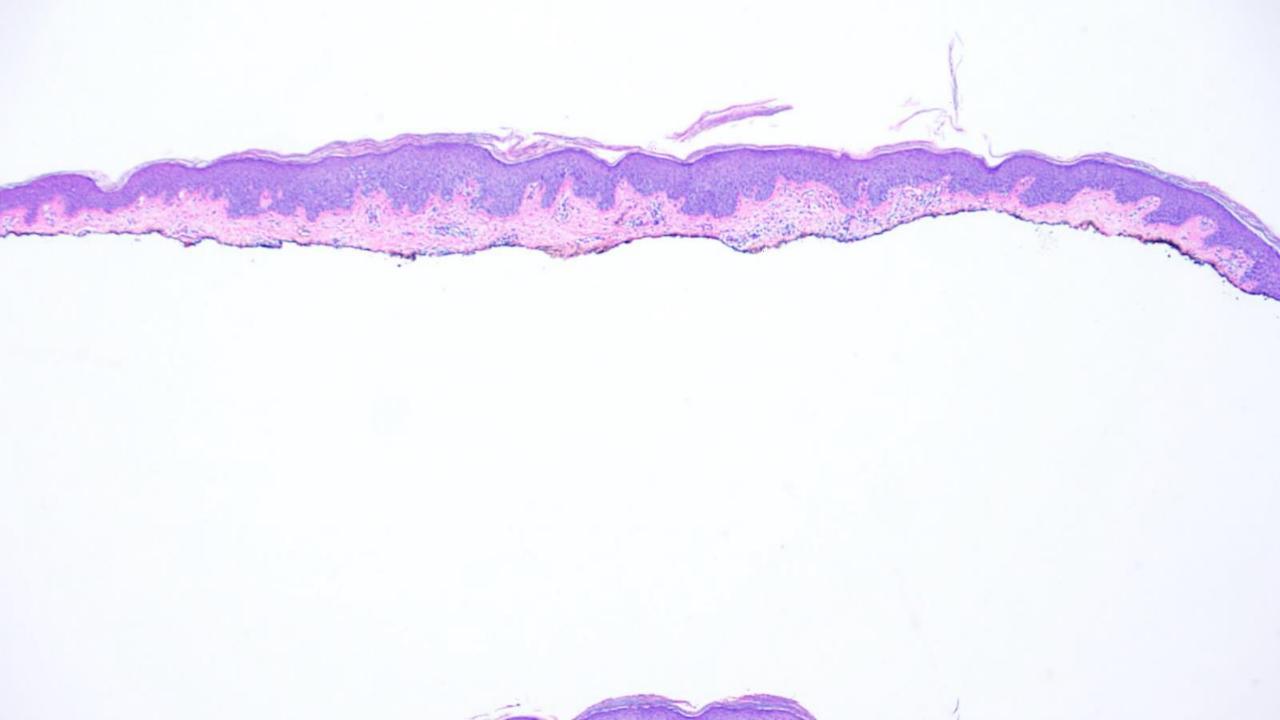
extremity of a patient with mycosis fungoides (MF).

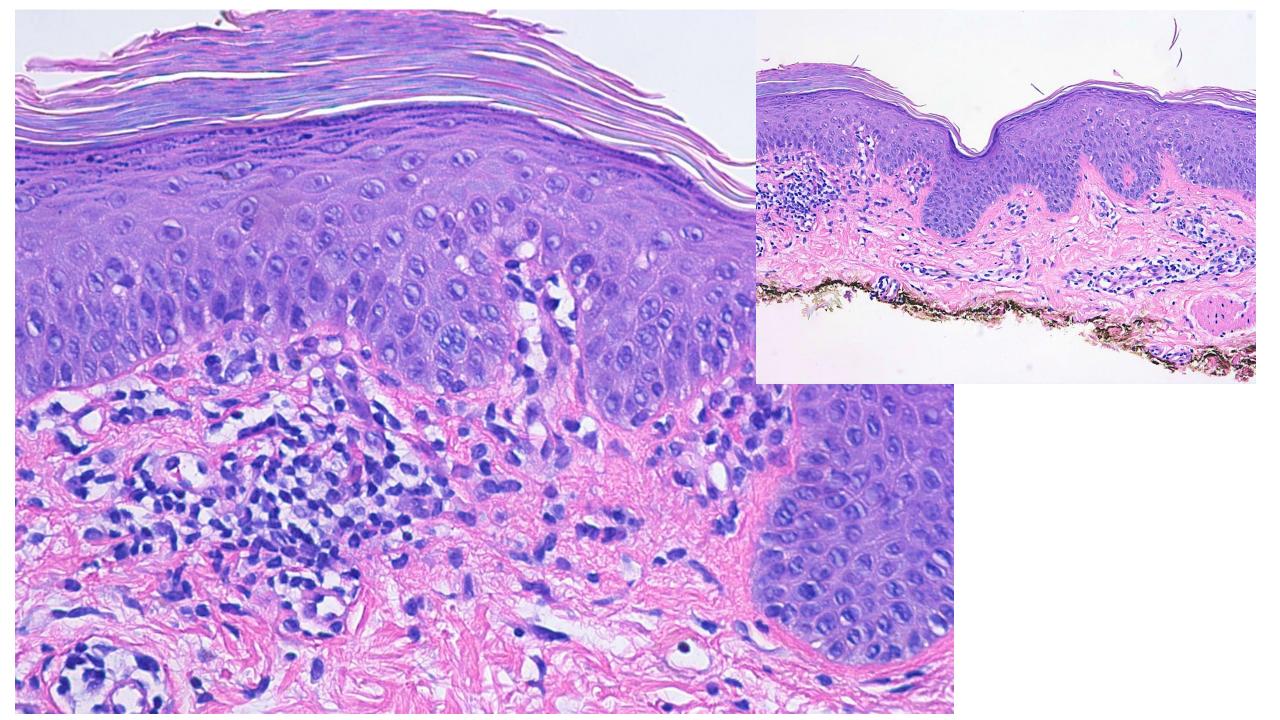


# What are the histologic features of psoriasis?

- Uniform elongation of rete ridges
- Hyperkeratosis with confluent parakeratosis
- Loss of granular cell layer
- Papillary dermal edema with dilated tortuous capillaries
- Thinned, suprapapillary plates
- Neutrophils within the stratum corneum
- Neutrophils within the spinous layer
- Superficial perivascular lymphocytic infiltrate
- DDX: Chronic spongiotic dermatitis, Superficial cutaneous fungal infections, Secondary syphilis, Reiter syndrome, and Lichen simplex chronicus

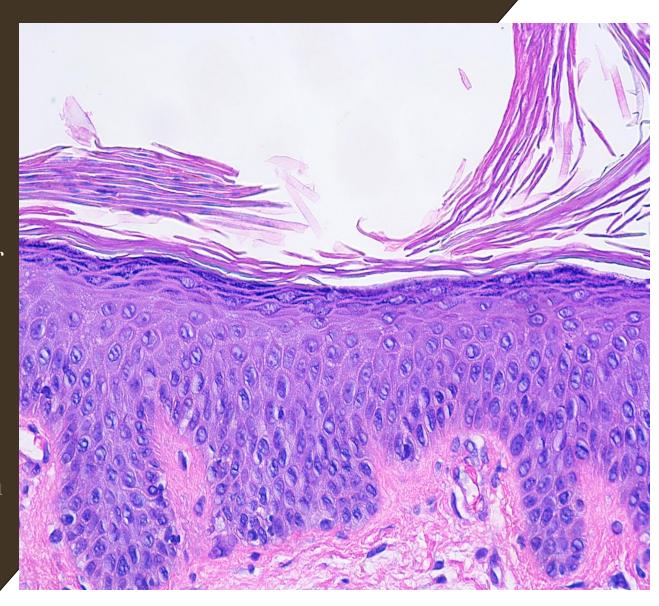


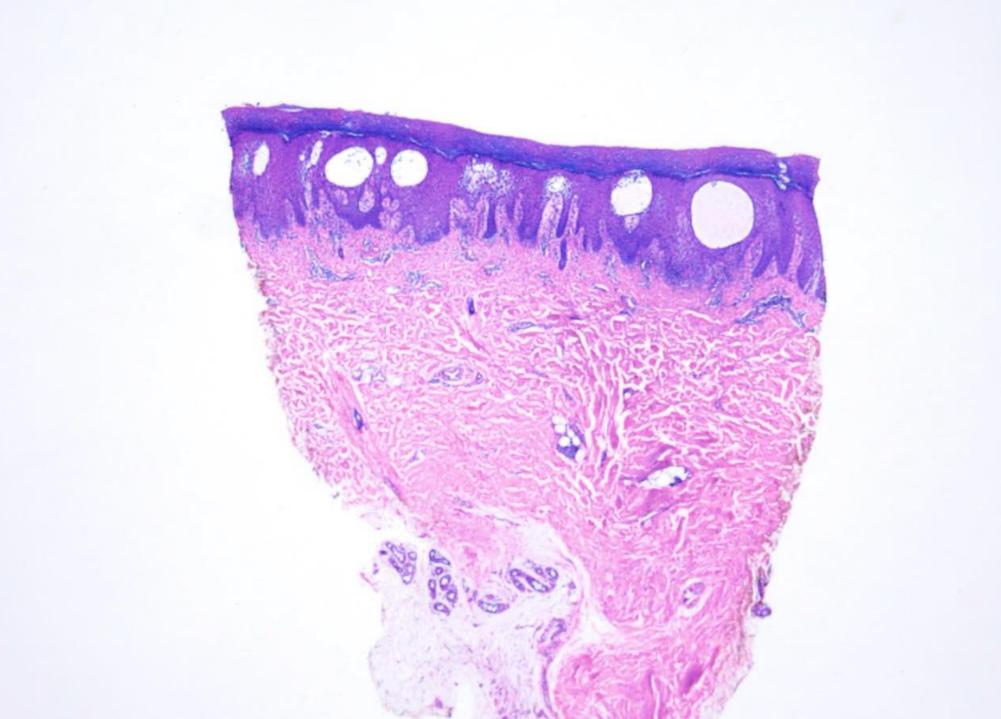


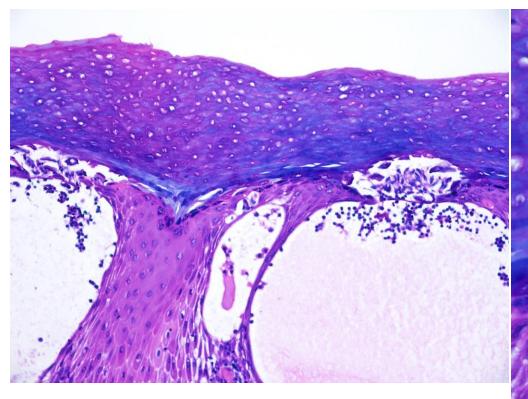


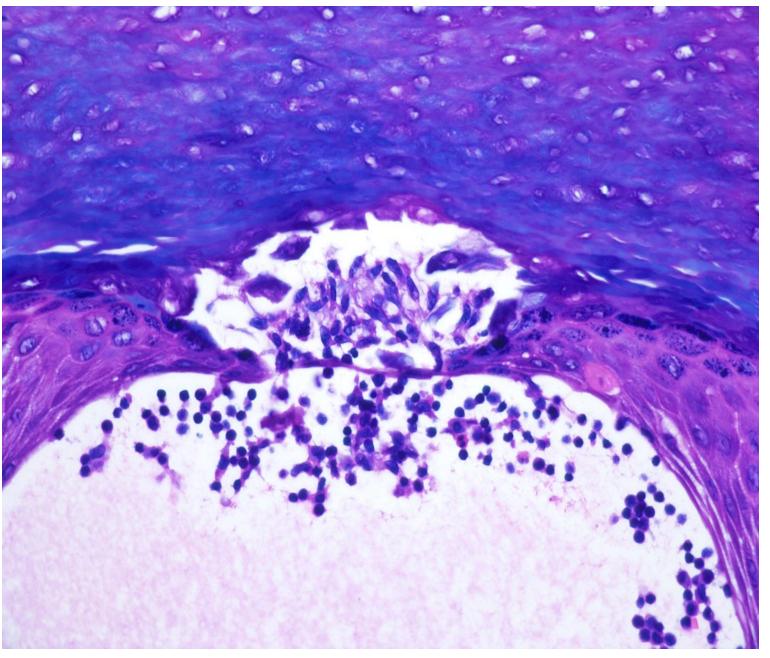
# What are the histologic features of pityriasis rubra pilaris?

- Vertical and horizontal foci of orthokeratosis alternate with parakeratosis
- Parakeratotic mounds at follicular ostia (shoulder parakeratosis)
- Follicular plugging
- Rete ridges irregularly elongated and thickened
- Thickened suprapapillary plates
- Superficial perivascular lymphocytic information
- DDX: psoriasis, seborrheic dermatitis, keratosis pilaris



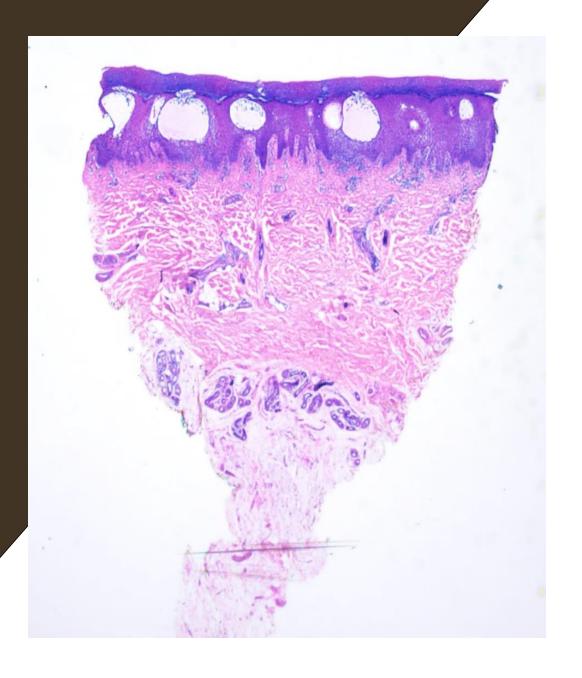






# What are the histologic features of chronic spongiotic dermatitis?

- Hyperkeratosis, hypergranulosis
- Intraepidermal vesicle/spongiosis (acute on chronic)
- Irregular epidermal hyperplasia/acanthosis
- Rete\_ridges irregularly elongated and pointed
- Thickened suprapapillary plates
- Papillary dermal fibrosis (feature of LSC)
- Stellate fibroblasts (feature of LSC)
- Superficial perivascular lymphocytic information
- DDX: Psoriasis, Seborrheic dermatitis, Superficial cutaneous fungal infections, and Lichen simplex chronic



## What are the phases of spongiotic dermatitis?

Acute

- Spongiosis, intraepidermal vesicle; intraepidermal and perivascular lymphocytes
- No hyperkeratosis; No epidermal hyperplasia; No papillary dermal fibrosis

Subacute

- $\bullet$  Less spongiosis,  $\pm$  intraepidermal vesicle; some lymphocytes
- Some hyperkeratosis (orthokeratosis); Some acanthosis (epidermal thickening)

Chronic

- No spongiosis or vesicle (dry); less lymphocytes
- Hyperkeratosis; Psoriasiform hyperplasia; Papillary dermal fibrosis/fibroblasts

## What are the histologic terms 'hyperkeratosis' and 'epidermal hyperplasia'?

#### HYPERKERATOSIS

- Increase in the thickness of the scale normal: basket weave, thin
- In disease state: hyperkeratosis

  Orthokeratosis (compact keratin,
  without nuclei)

  Parakeratosis (compact keratin,
  with nuclei)
- Tiers of ortho or parakeratosis can alternate or stack

#### EPIDERMAL HYPERPLASIA

• Thickened layers of epidermis

Acanthosis: slight increase

Regular: significant, club shaped rete ridges

Irregular: significant, pointed rete ridges
Pseudoepitheliomatous: marked, mimics
epidermal neoplasm

### References

- ExpertPath.com by Elsevier
- Own slides/images
- Dermatopathology Raymond L. Barnhill 3<sup>rd</sup> Edition
- McKee's Pathology of the Skin

## Case-by-case Series

https://digitalskinpathology.com