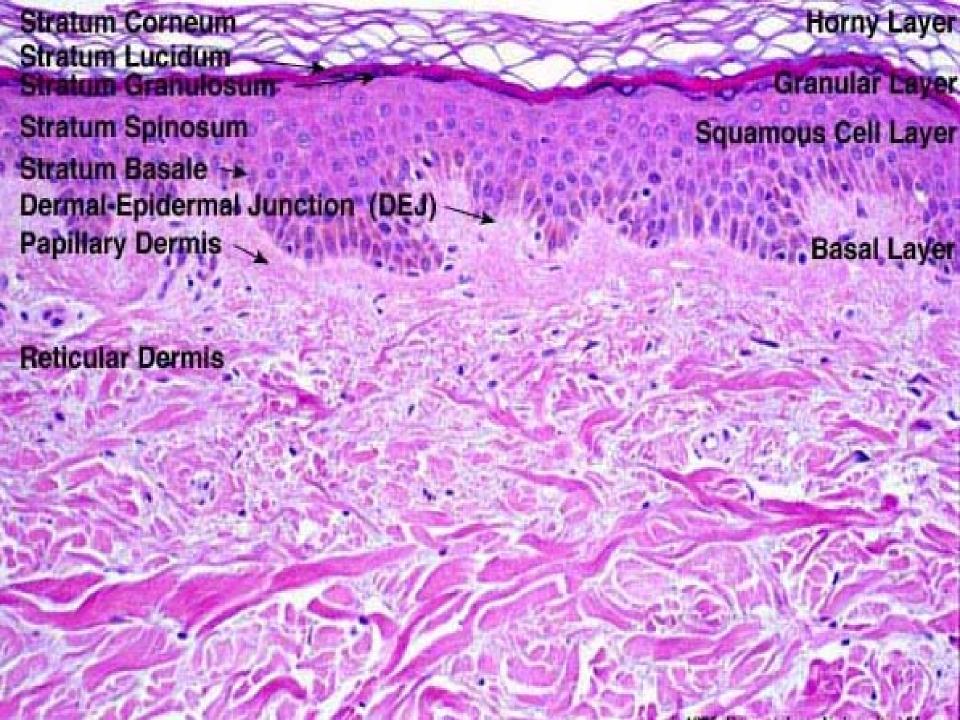


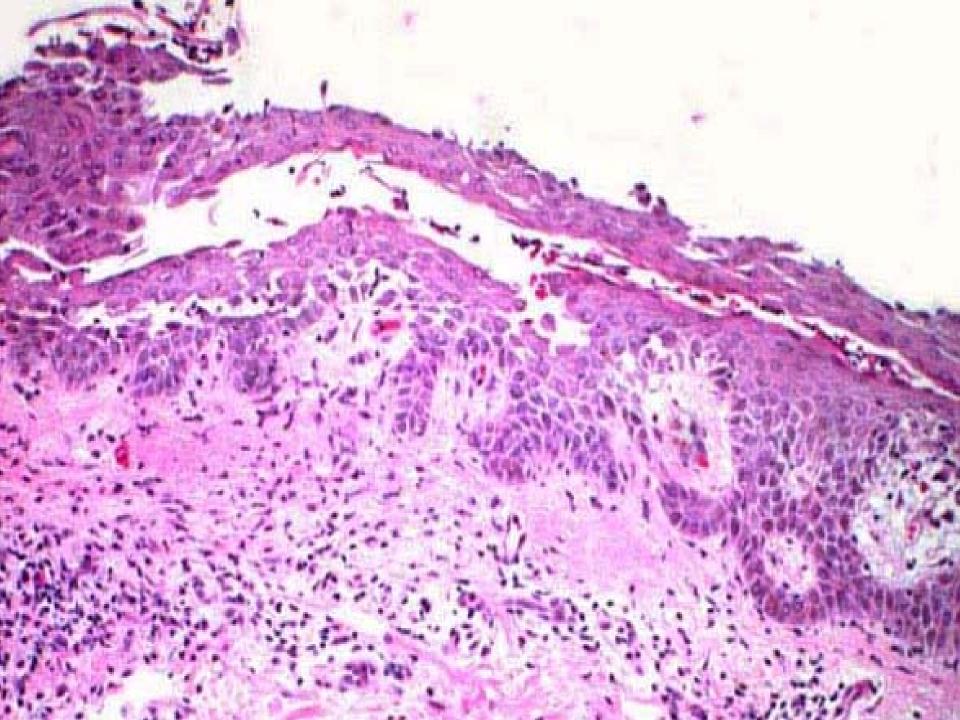
# Dermatopathology

We've Only Just Begun!

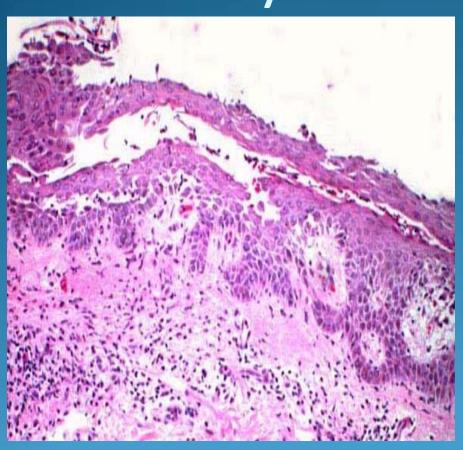
Basic Histopathology

Paul K. Shitabata, M.D. Dermatopathology Institute

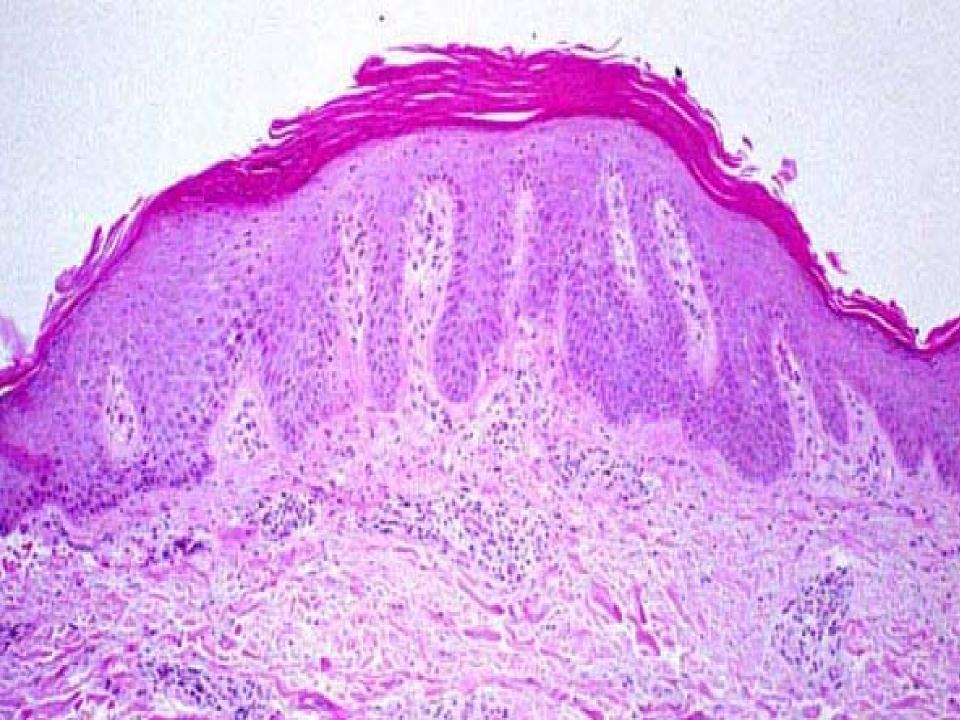




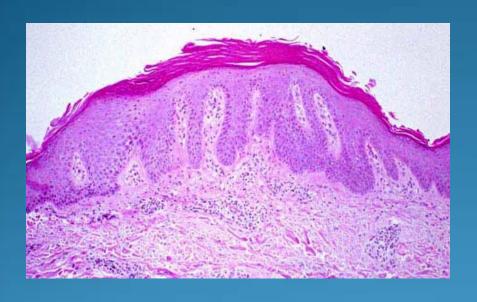
# Acantholysis



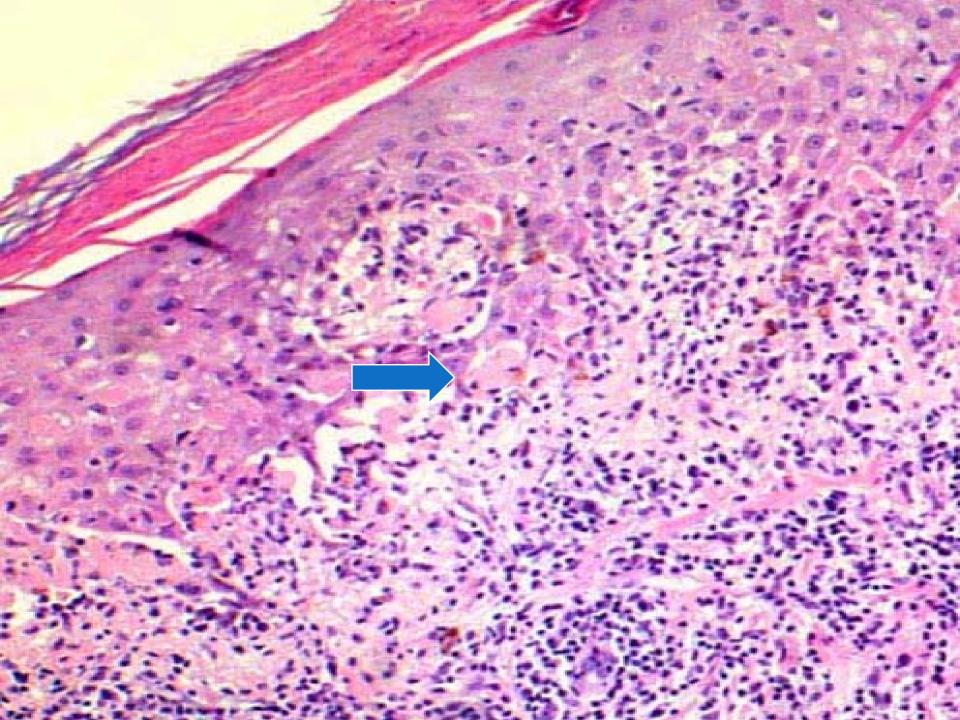
- Loss of cohesion between epidermal or adnexal keratinacytes
- Grover's disease,
  Pemphigus, Darier's disease, Hailey-Hailey



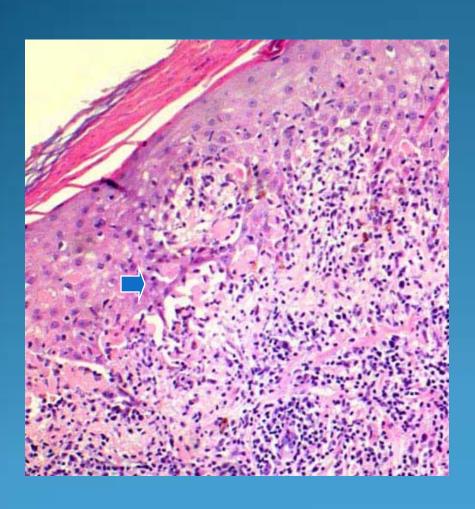
### Acanthosis



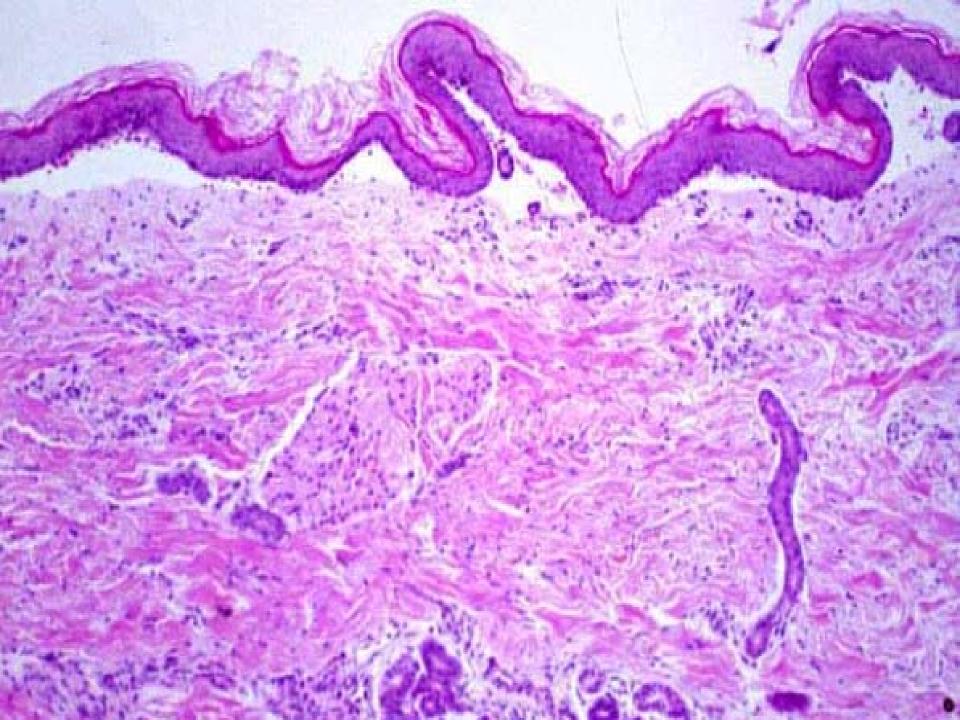
- The increase in the thickness of the stratum malpighii
- Acanthosis nigricans,Pale cell acanthoma



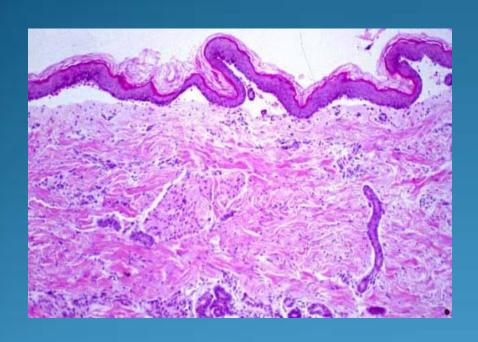
## Apoptosis



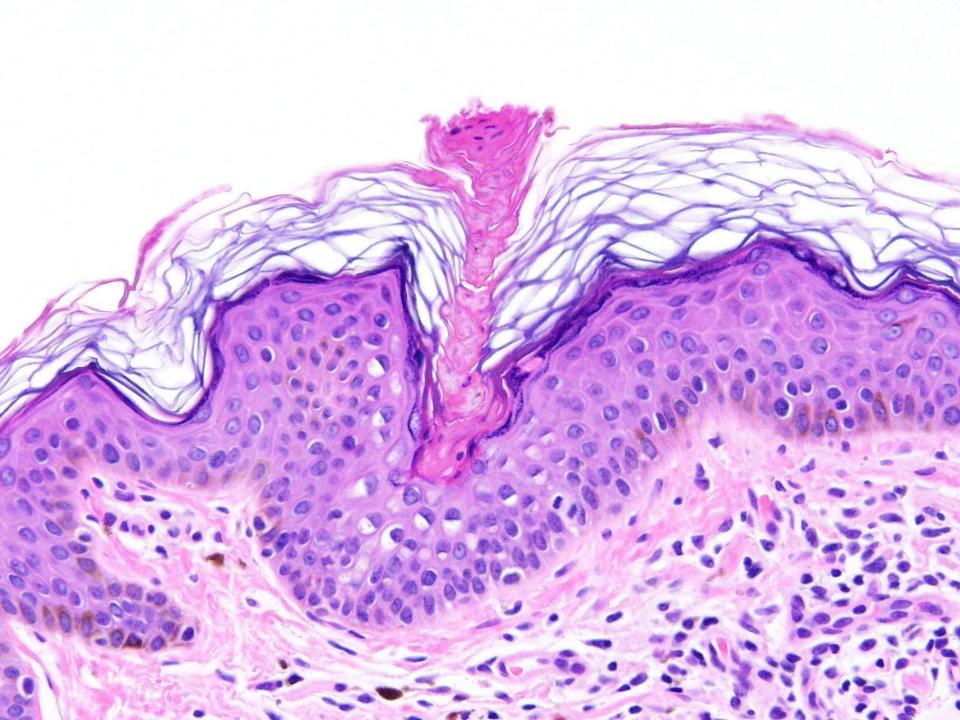
- Dropping off of colloid bodies from the epidermis into the dermis
- Occurs in disorders in which basal cell damage occurs, such as lichenoid tissue reactions
- Lichen planus, LPLK, DLE



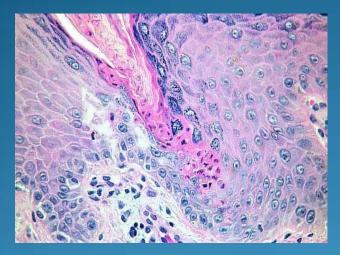
### Bulla

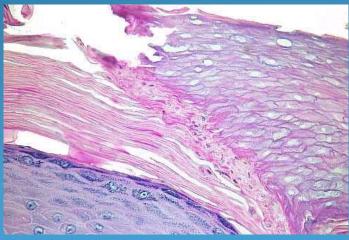


- Cavity of at least 5 mm in diameter forming within or below the epidermis
- Bullous pemphigoid, EBA, DH

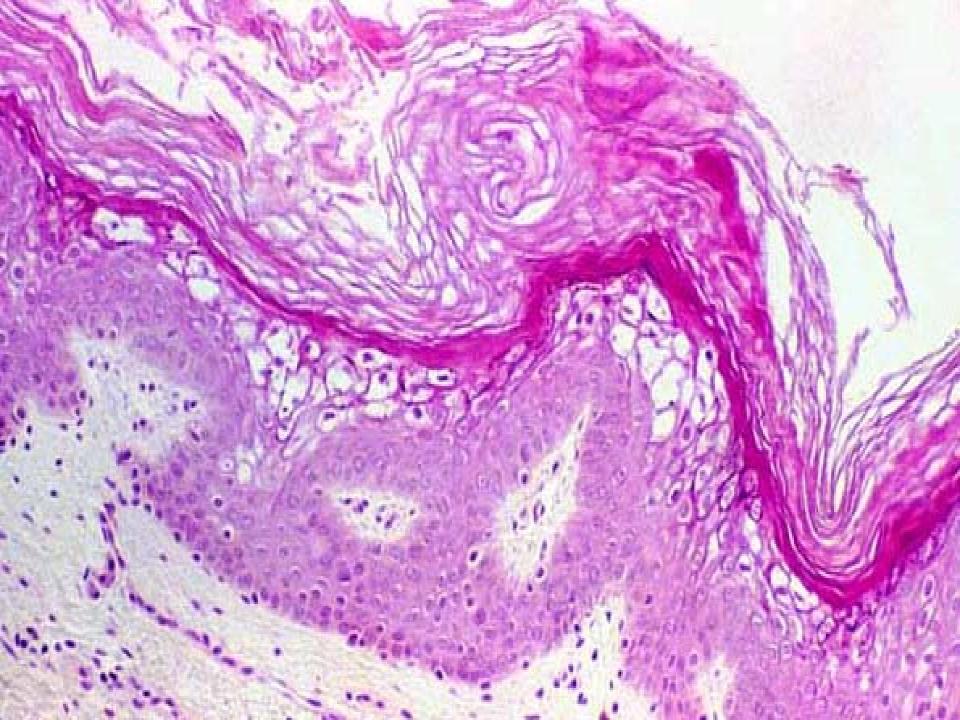


### Cornoid Lamella

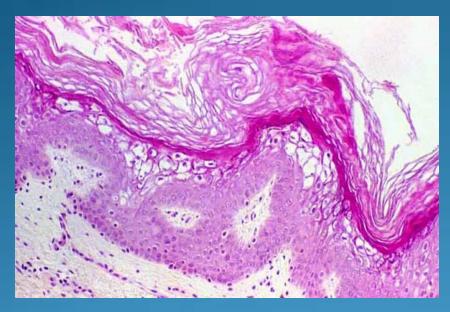




- The cornoid lamella is tilted toward the center of such a lesion
- Peripherally migrating clone of abnormal keratinocytes forming the cornoid lamella
- Porokeratosis



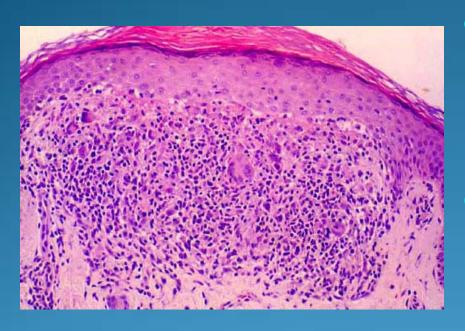
# **Epidermolytic Hyperkeratosis**



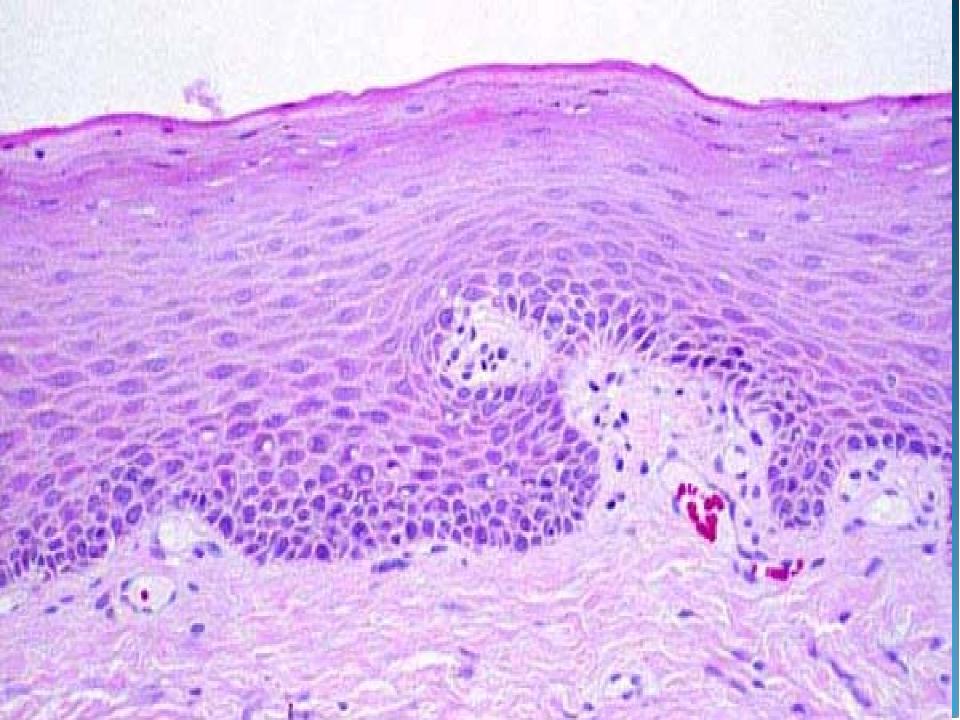
- Vacuolation of the keratohyaline granular layer
- Rule out Congenital Ichthyosiform erythroderma
- Association with dysplastic nevi



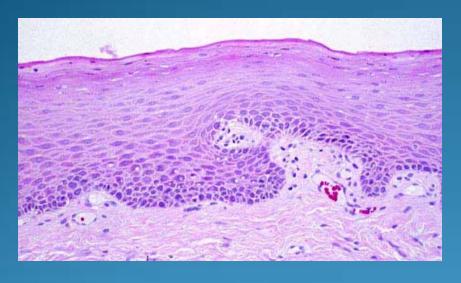
# Lichenoid (Interface)



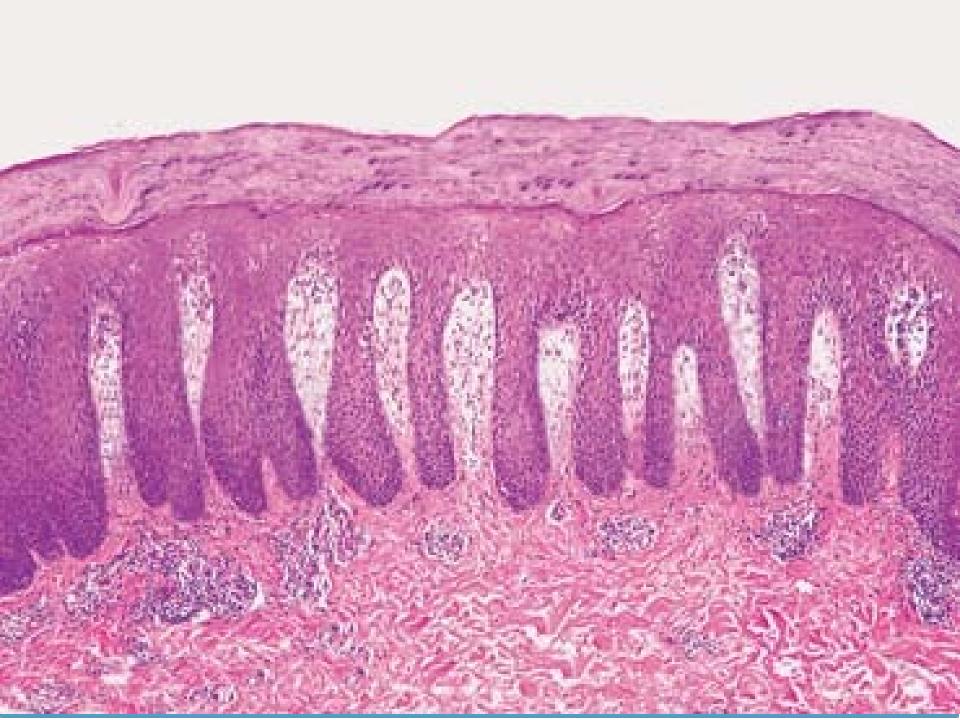
- Epidermal basal cell damage manifested with cell death or liquefactive degeneration (basal vacuolar change)
- Interface sometimes applied only to poikilodermatous reactions with mild basal damage with vacuolar change
- Lichen planus, Fixed drug eruption, LPLK



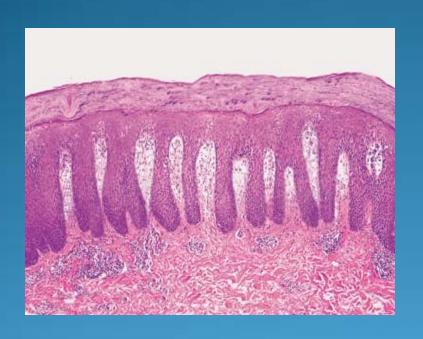
### Parakeratosis



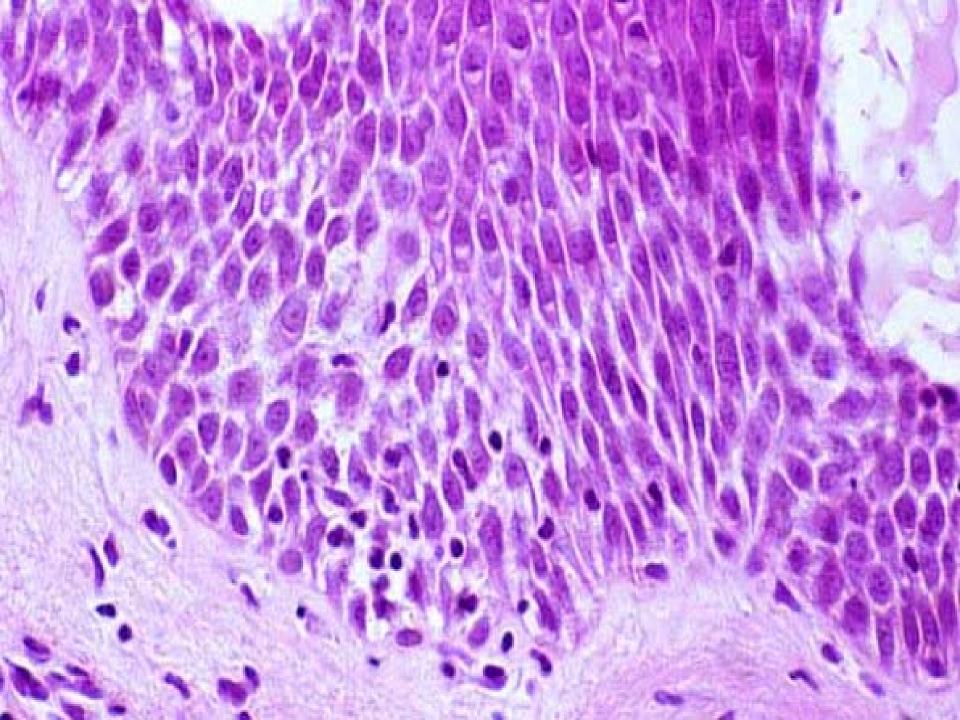
- Retention of nuclei in the stratum corneum
- Normal finding on mucous membranes
- Spongiotic dermatitis (Eczema)



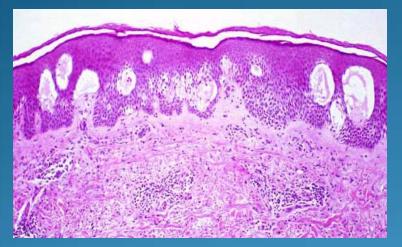
### **Psoriasiform**

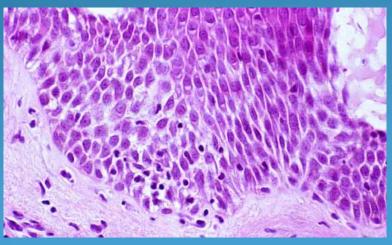


- Epidermal hyperplasia with regular elongation of rete ridges
- Several layers of scale resulting from bouts of activity
- Psoriasis, PRP, Lichen striatus, MF

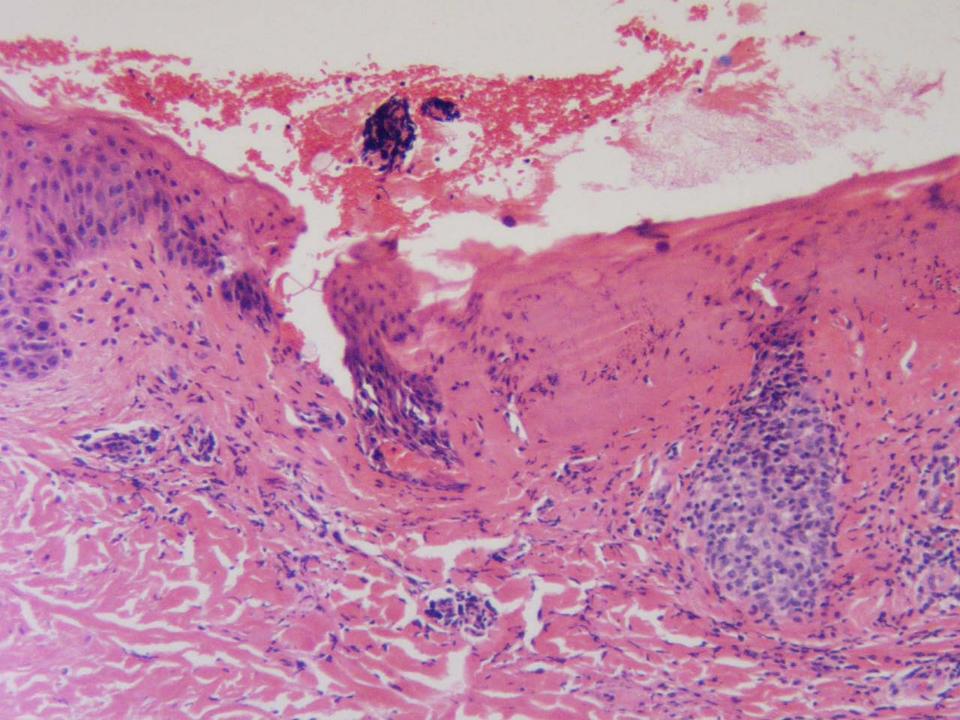


# Spongiotic

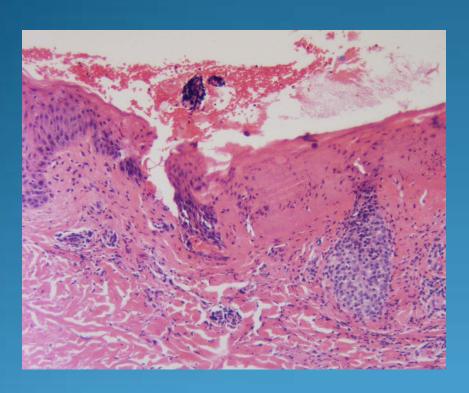




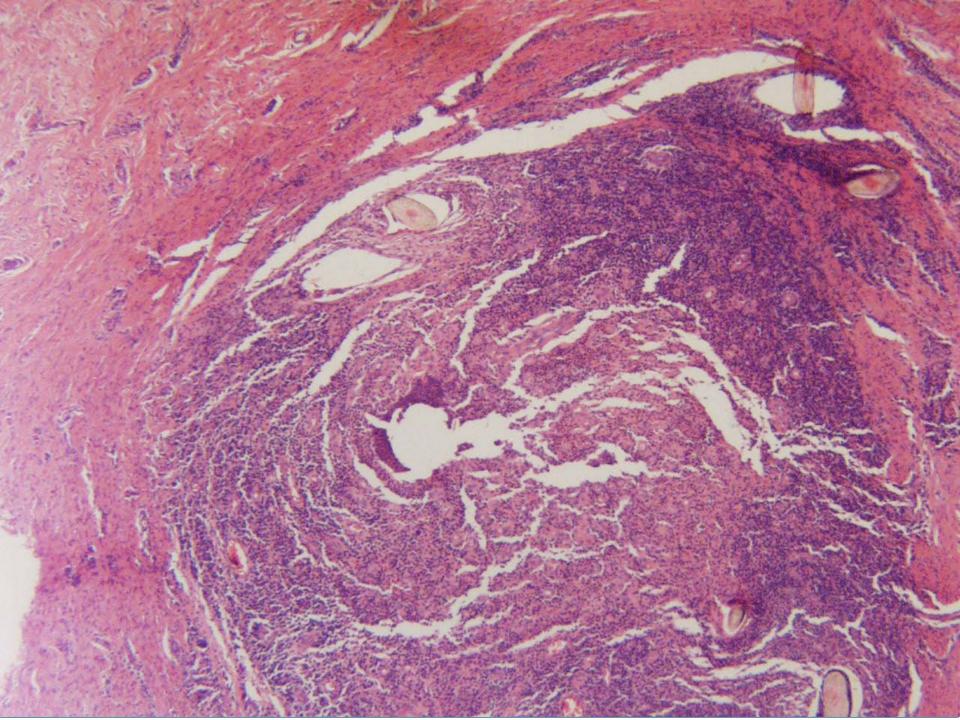
- Intraepidermal intercellular edema with widened intercellular spaces and elongation of intercellular bridges
- Subclassify by inflammatory cell type
- Eczema

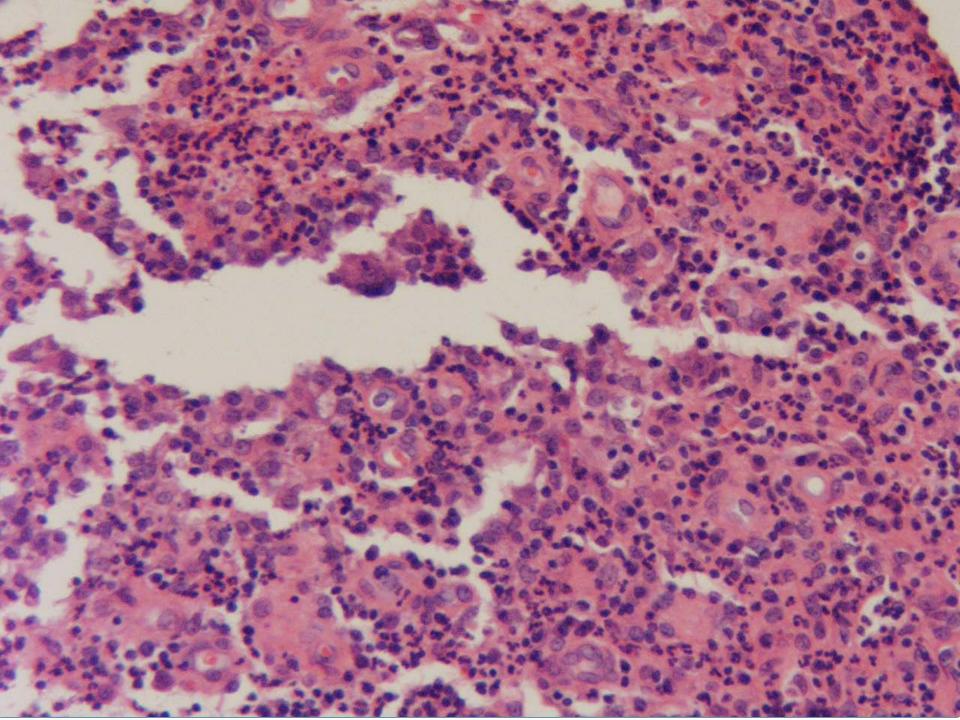


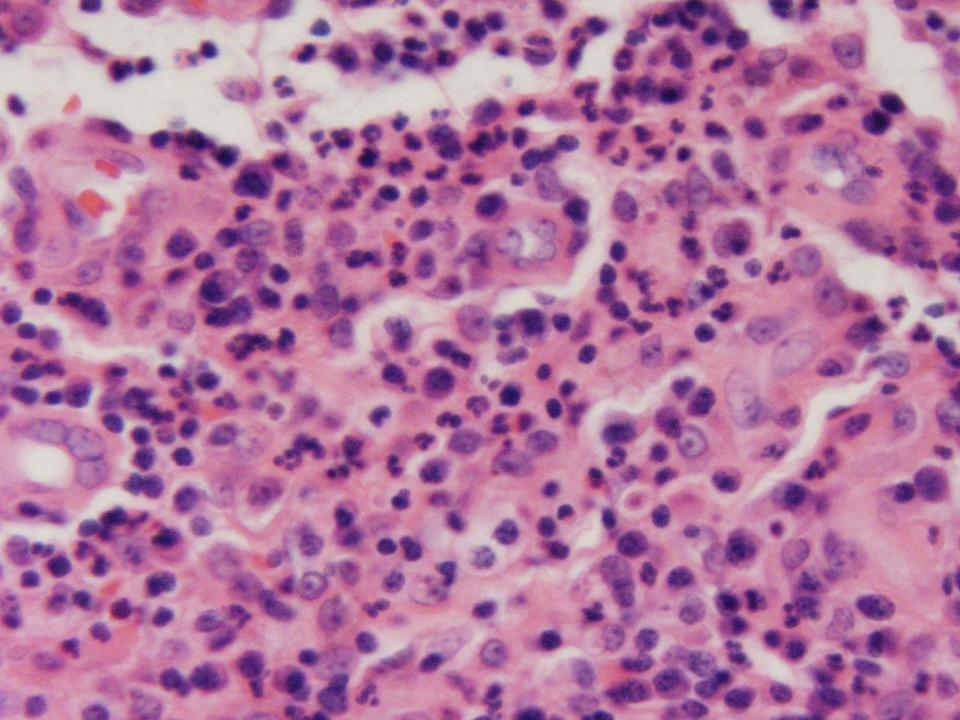
### Ulcer



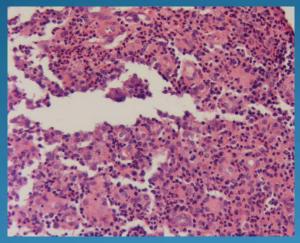
- Obliteration of a mucosal surface
- Usually fibrinopurulent base

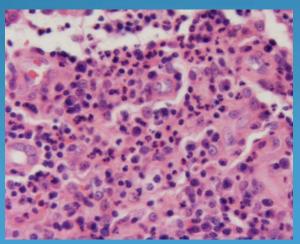




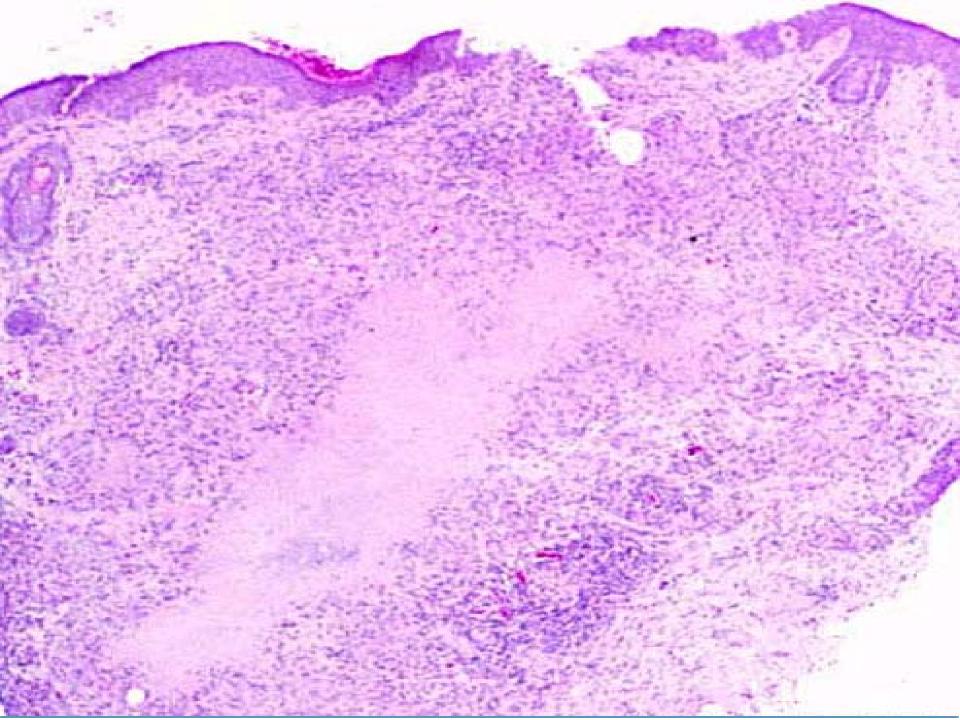


### Abscess

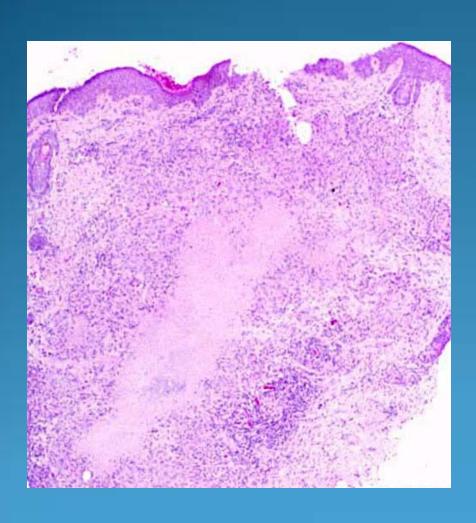




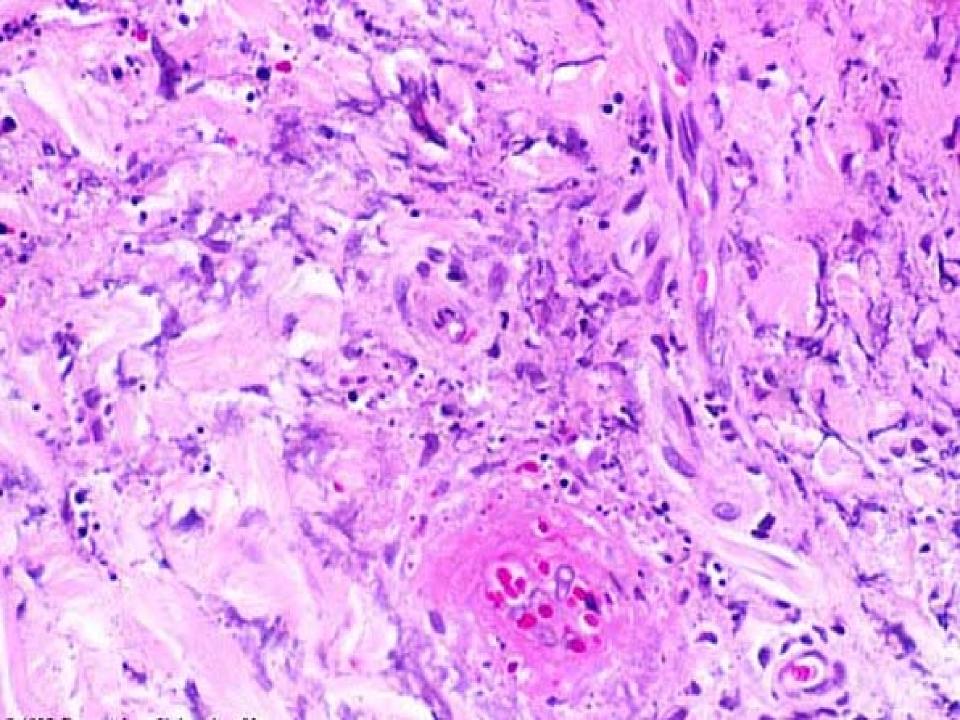
- Obliteration of tissue by suppurative necrosis
- May have foreign body giant cells
- Consider correlation with cultures
- Consider special stains



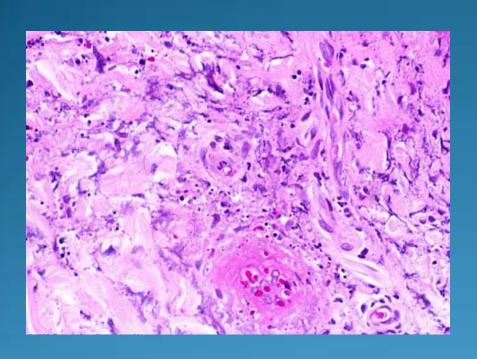
### **Caseation Necrosis**



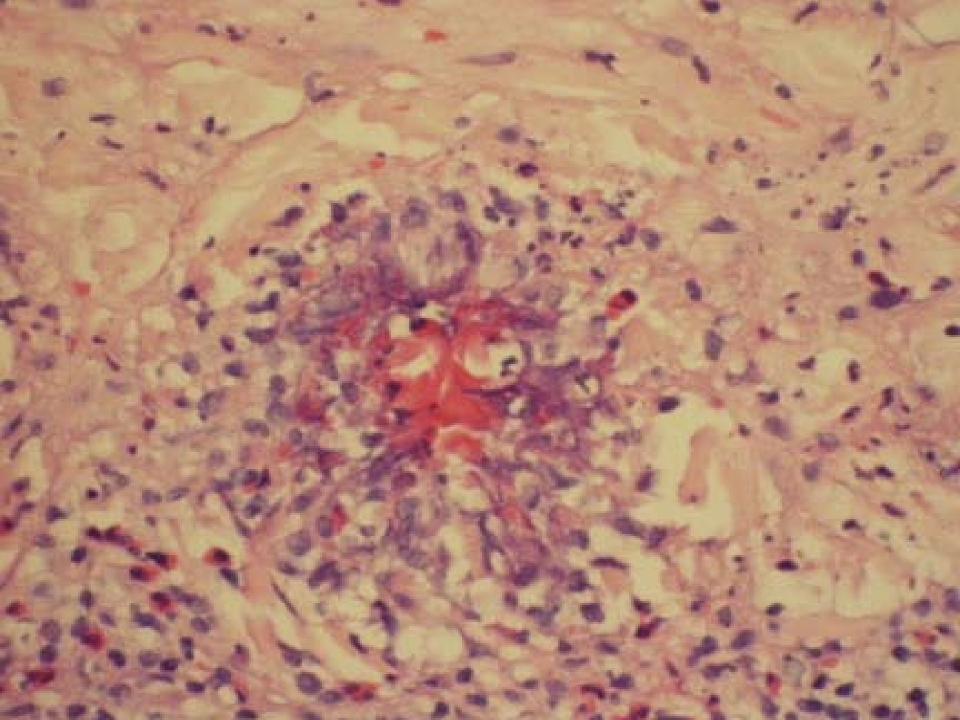
- Identical to coagulation necrosis and ischemic necrosis
- Affected tissue has lost its structural outline and appears as pale eosinophilic, amorphous and finely granular
- Tuberculosis, Necrobiotic xanthogranuloma



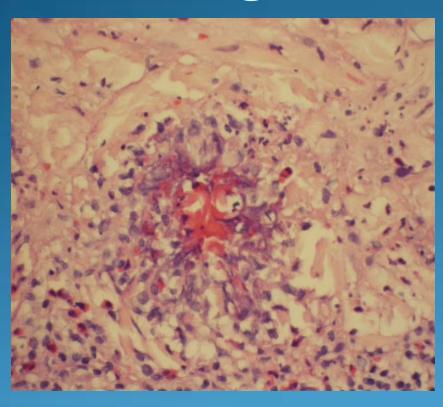
### Fibrinoid Necrosis



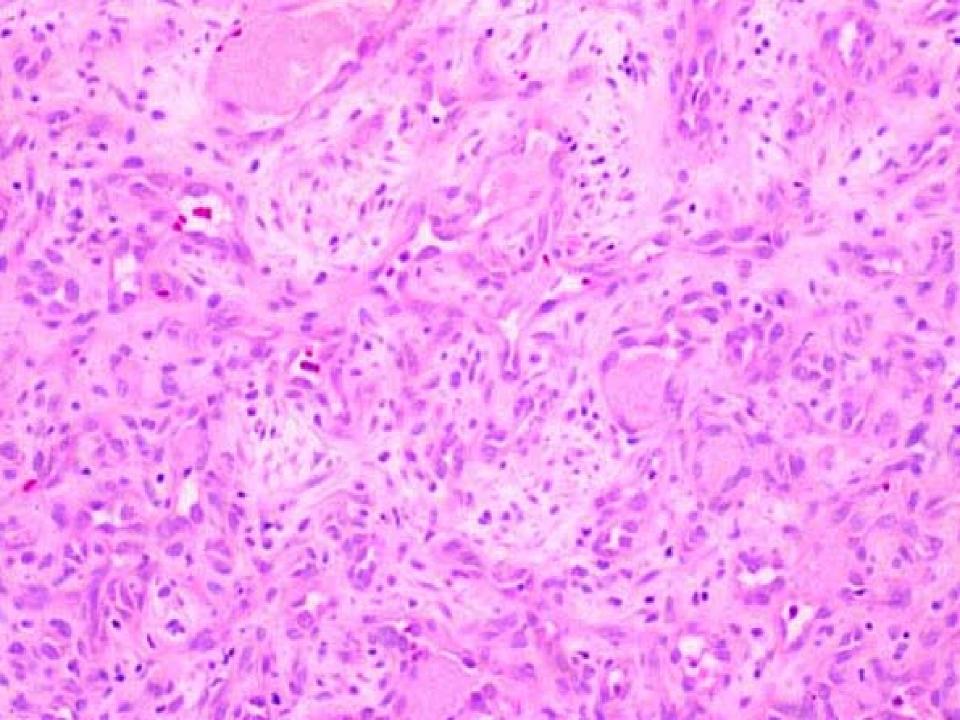
- Fibrin deposition in the wall of small vessels
- Commonly associated with leukocytoclastic vasculitis



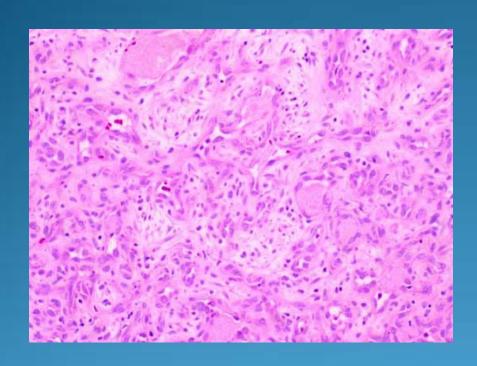
# Flame Figure



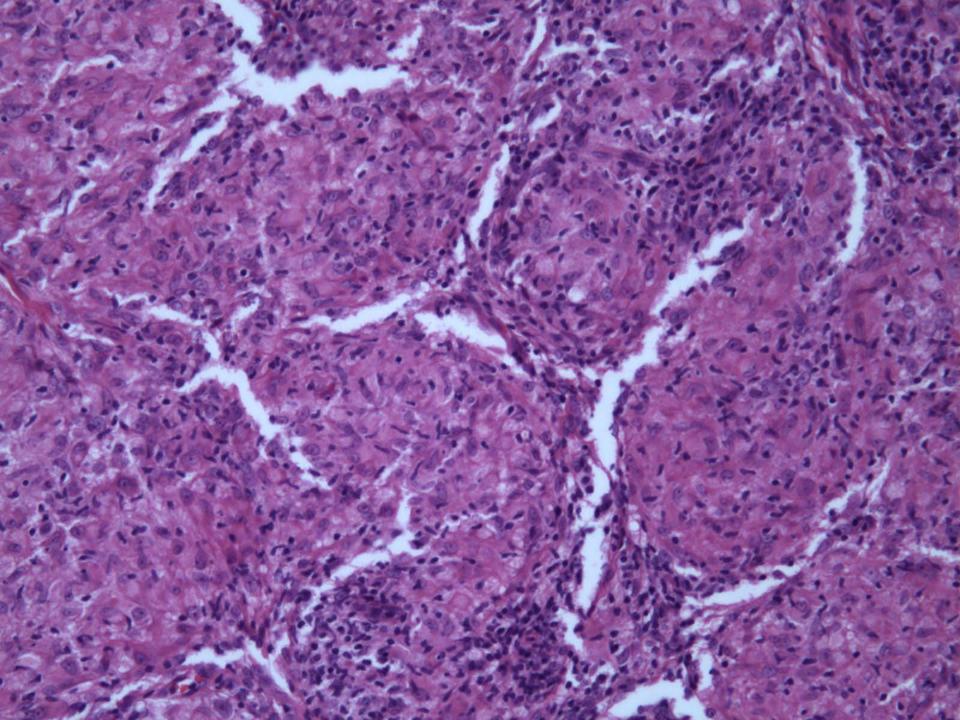
- Encrustation of eosinophilic granules around collagen
- Frequent in conditions with dermal eosinophilia
- Well's syndrome, arthropod, drug reactions



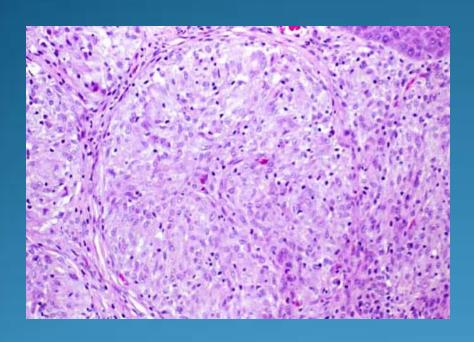
### **Granulation Tissue**



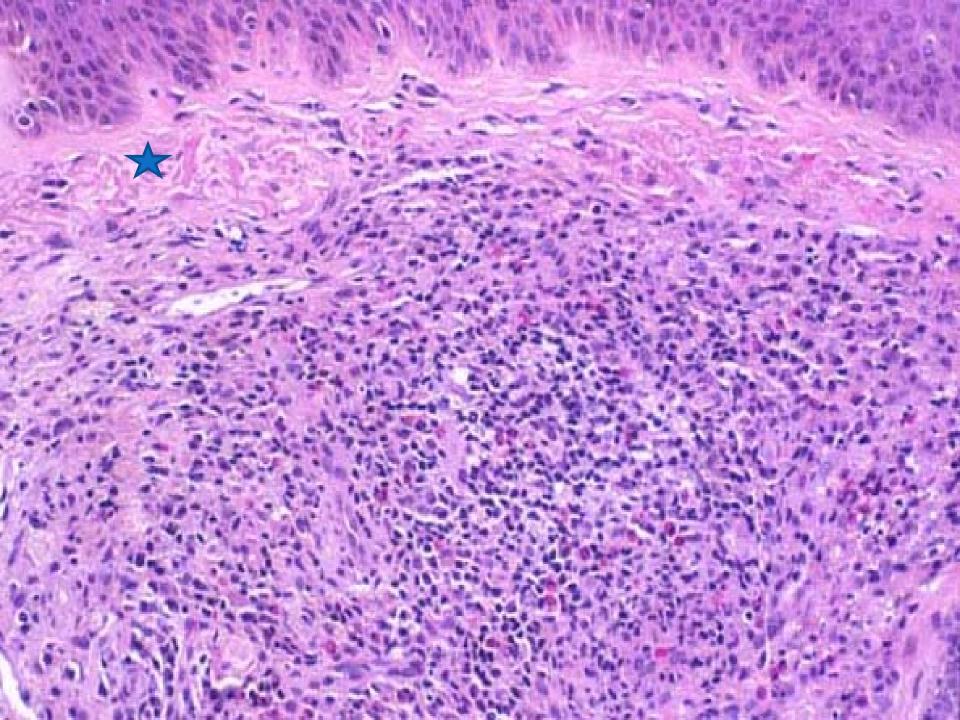
- Newly formed dermis arising in healing wounds and characterized by numerous fibroblasts and new capillaries and an infiltrate consisting of lymphoid cells, macrophages, and plasma cells
- Decubitus ulcer



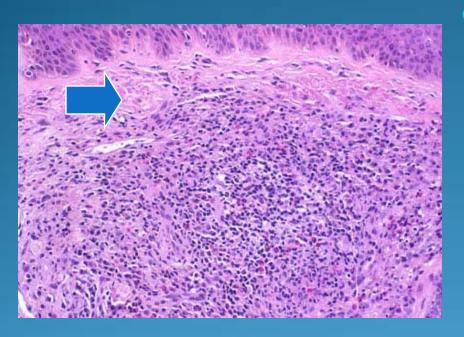
### Granuloma



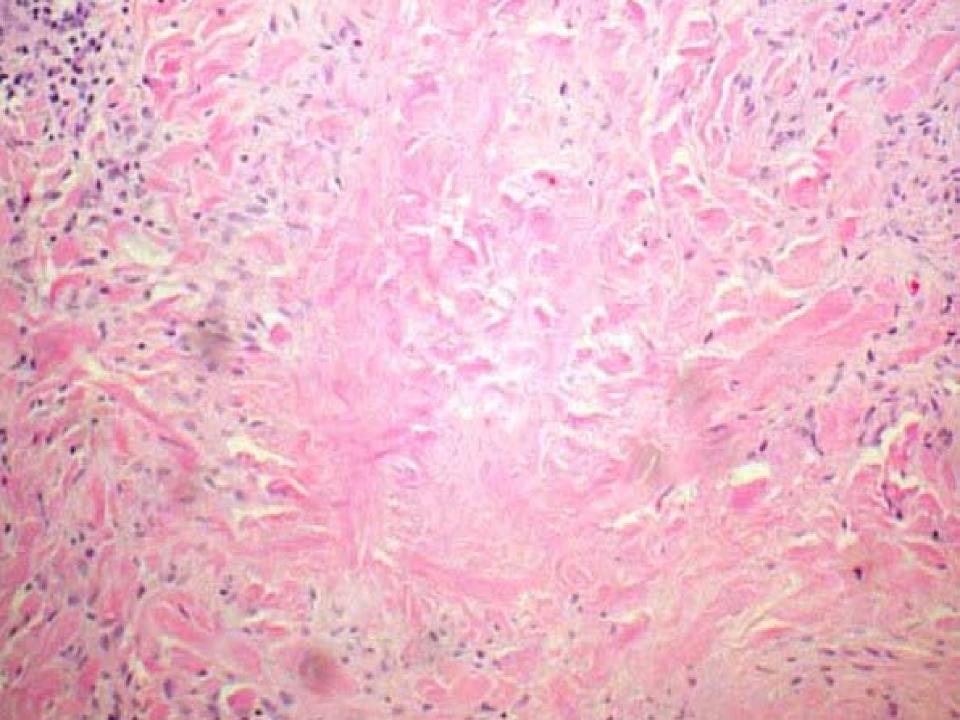
- Chronic proliferative lesion consisting of mononuclear cells and epithelioid cells or multinucleated giant cells or both
- Cells lie in groups and are often surrounded by lymphoid cells
- "Naked" granulomas have few to none of these surrounding lymphoid cells
- Sarcoidosis, foreign body



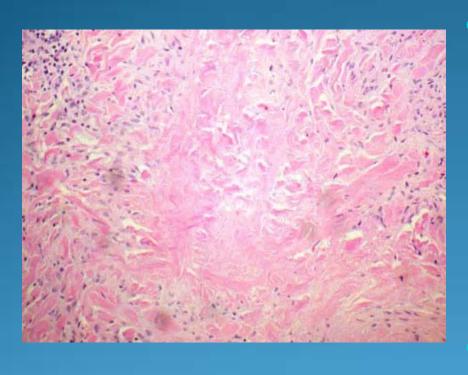
### Grenz Zone



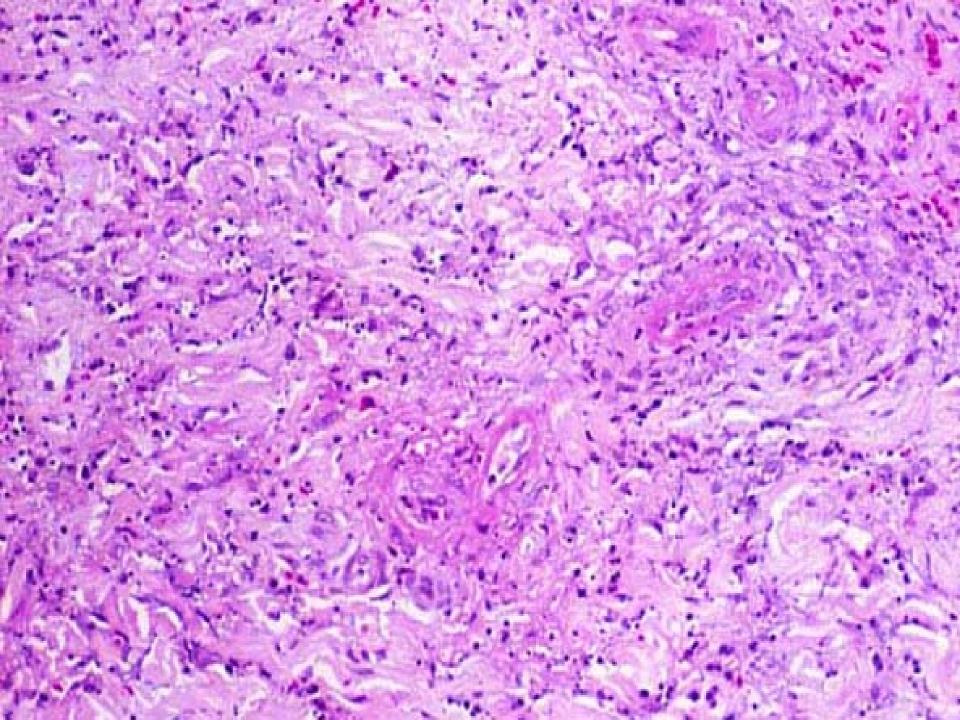
- A narrow area of uninvolved dermis between the epidermis and a dermal inflammatory or neoplastic infiltrate. "Grenz" is German for "border"
- Some lymphomas, granuloma faciale



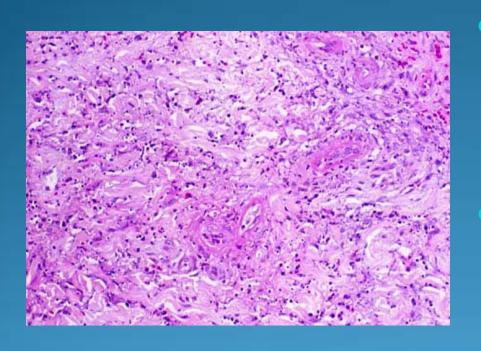
### Necrobiosis



- Altered collagen that loses its normal eosinophilic coloration and fibrillar appearance, becoming slightly bluish and "smudged"
- Necrobiosis lipoidica, some infections



### **Nuclear Dust**



- Fragmented nuclei scattered in the dermis, predominantly around blood vessels
- Leukocytoclastic vasculitis, granuloma faciale, Sweet's syndrome

