

# The Role of the Dermatopathologist in the Diagnosis of soft Tissue and Skin infectious Diseases

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**DERMATOPATHOLOGY UNIT**  
**CHU Saint-Pierre, CHU Brugmann, HUERF**

# **Clinical Cases**

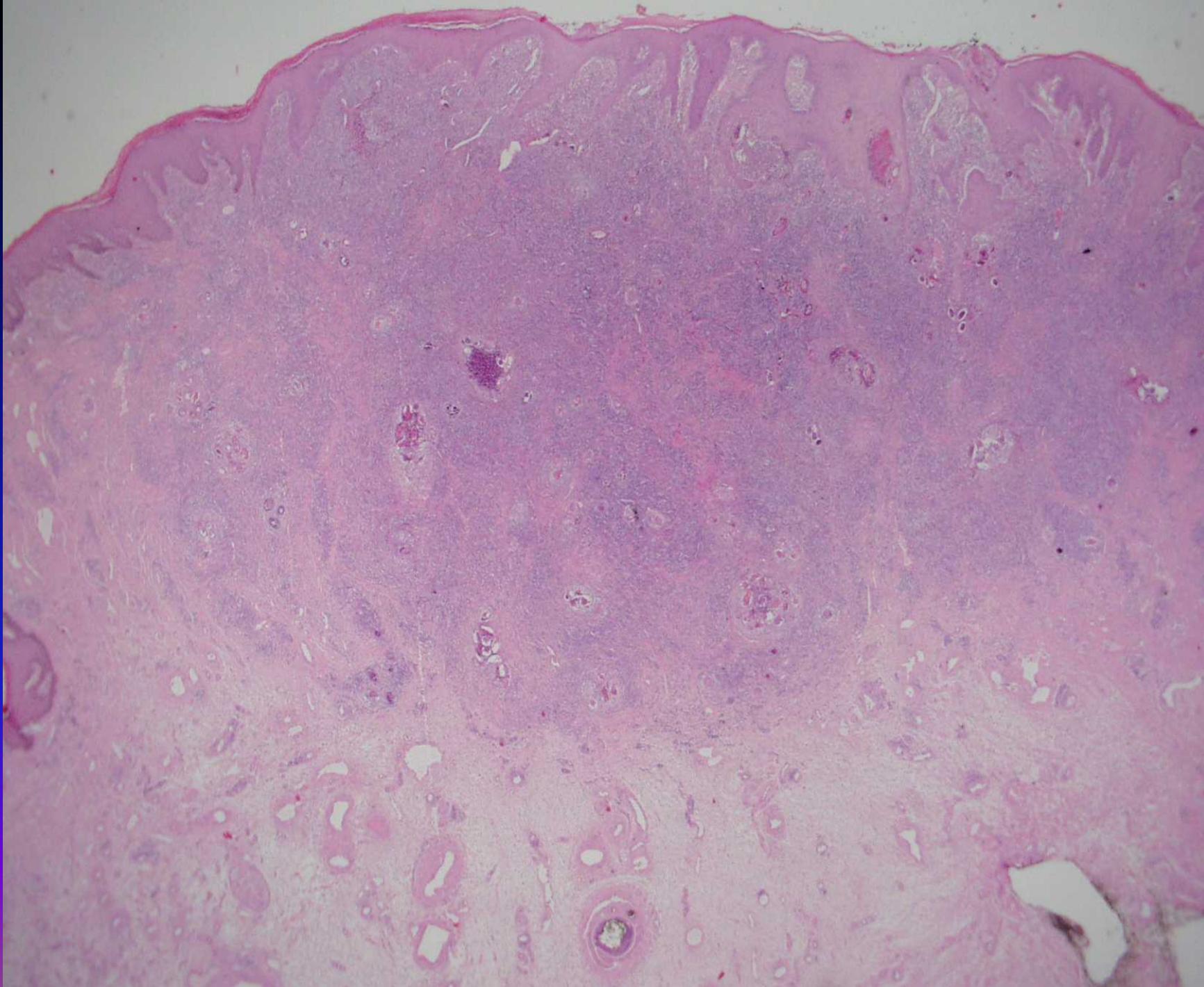
- **Infiltrated, nodular and pseudotumoral lesions**
- **Erythemato-squamous and atrophic lesions**
- **Ulcerative lesions**
- **Blistering lesions**
- **Fasciitis**

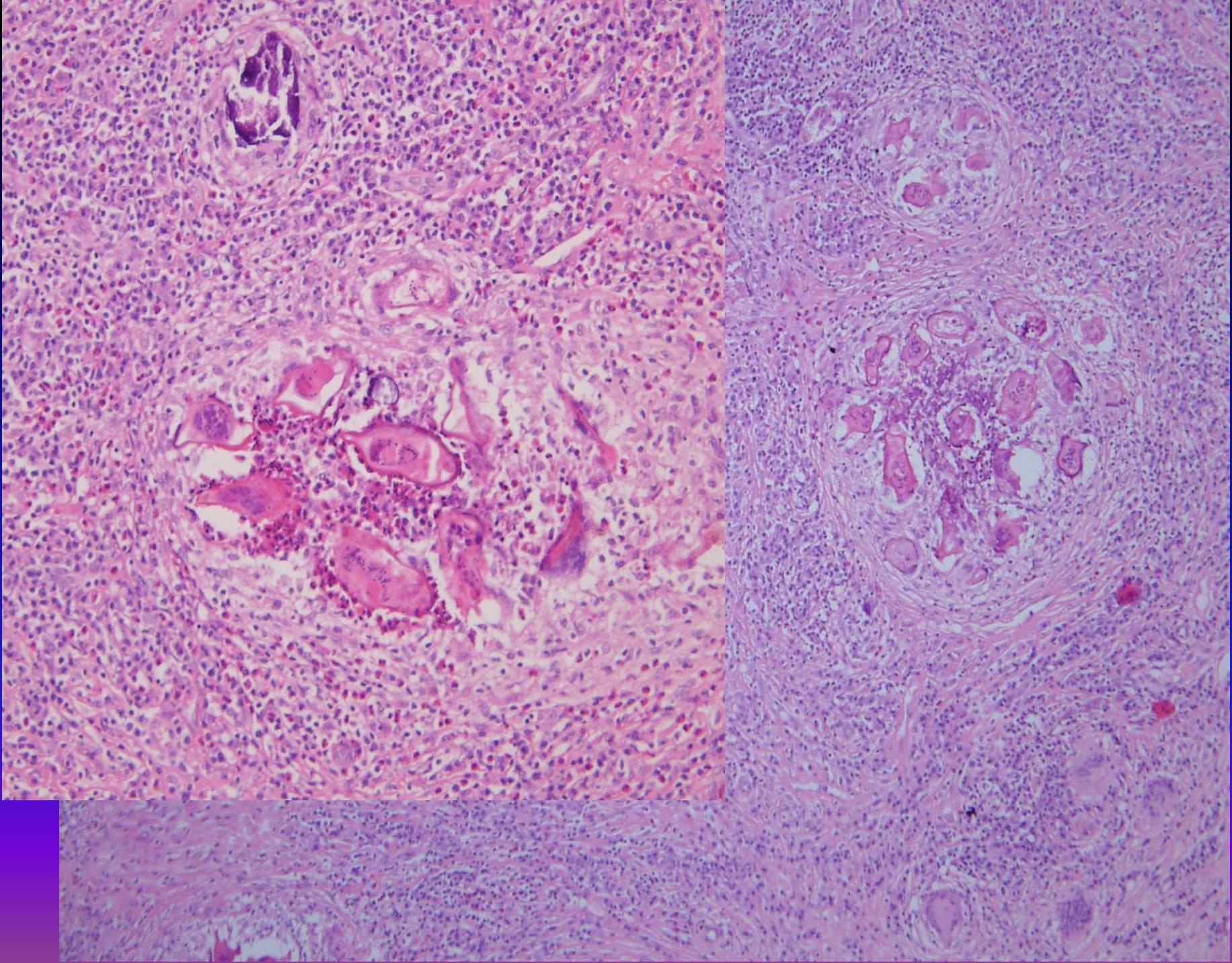
# Infiltrated, nodular and pseudotumoral lesions

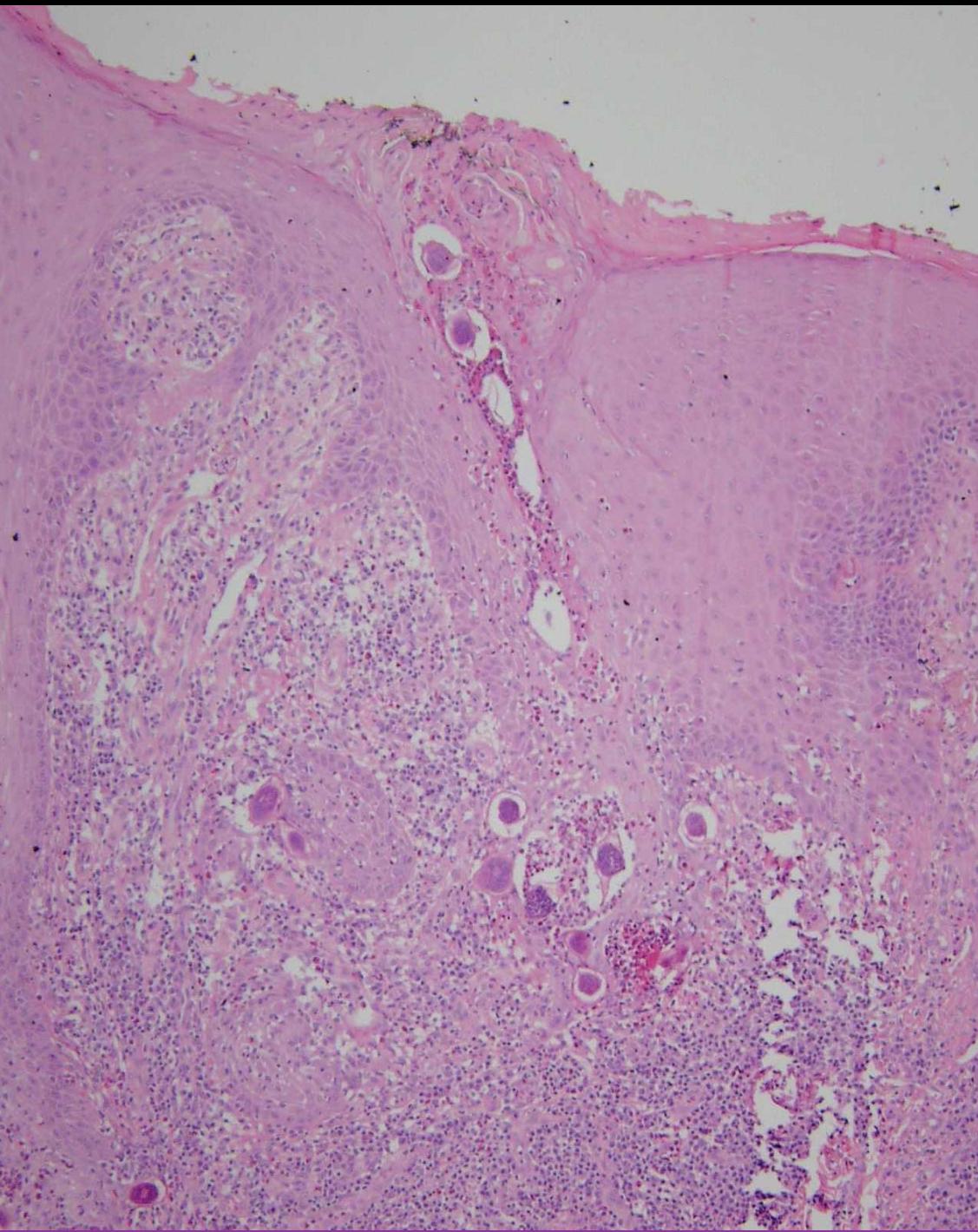


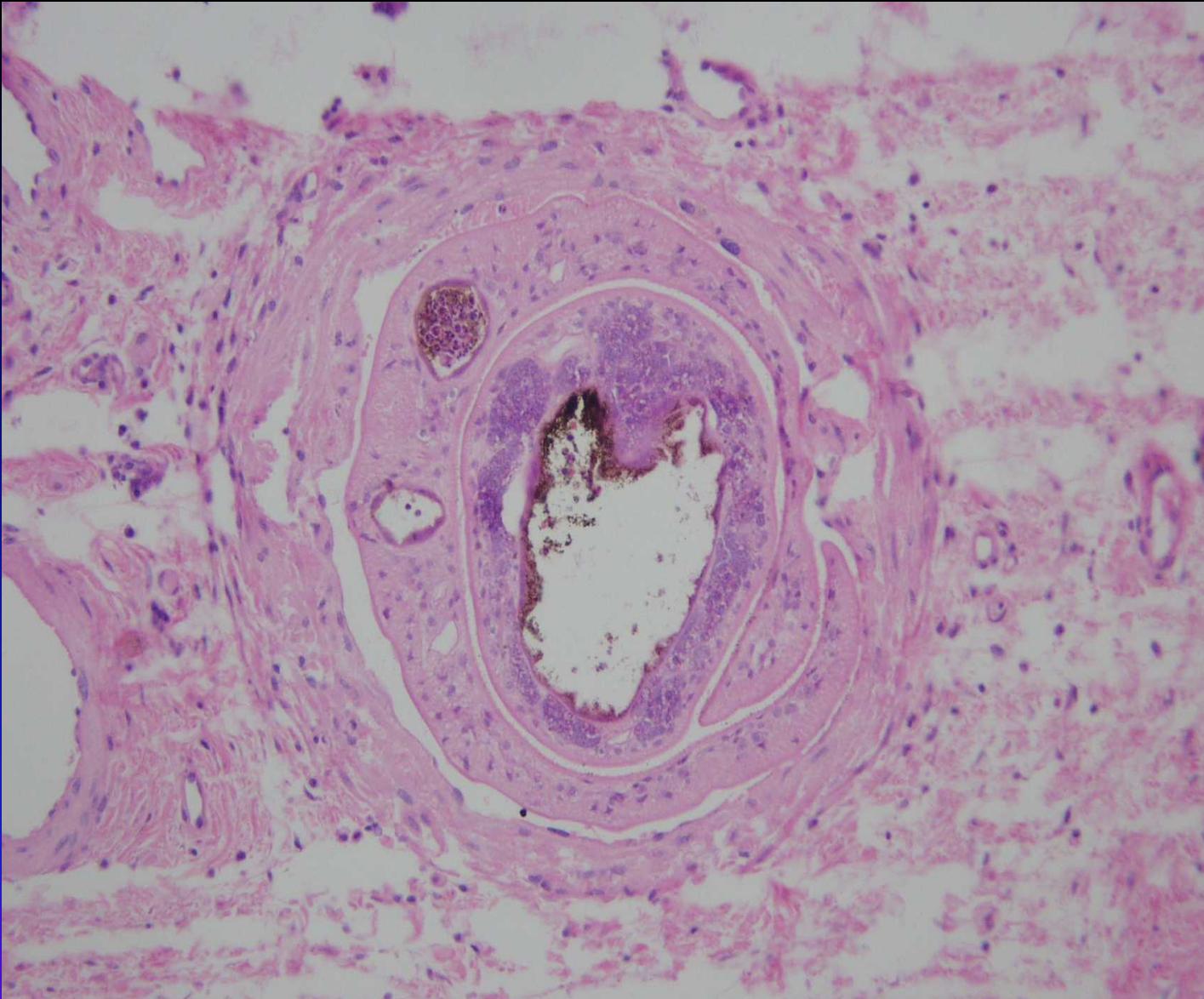
- 19-year-old, African, pregnant woman
- At delivery, removal of a verrucous lesion located on the vulva, evolving for several months





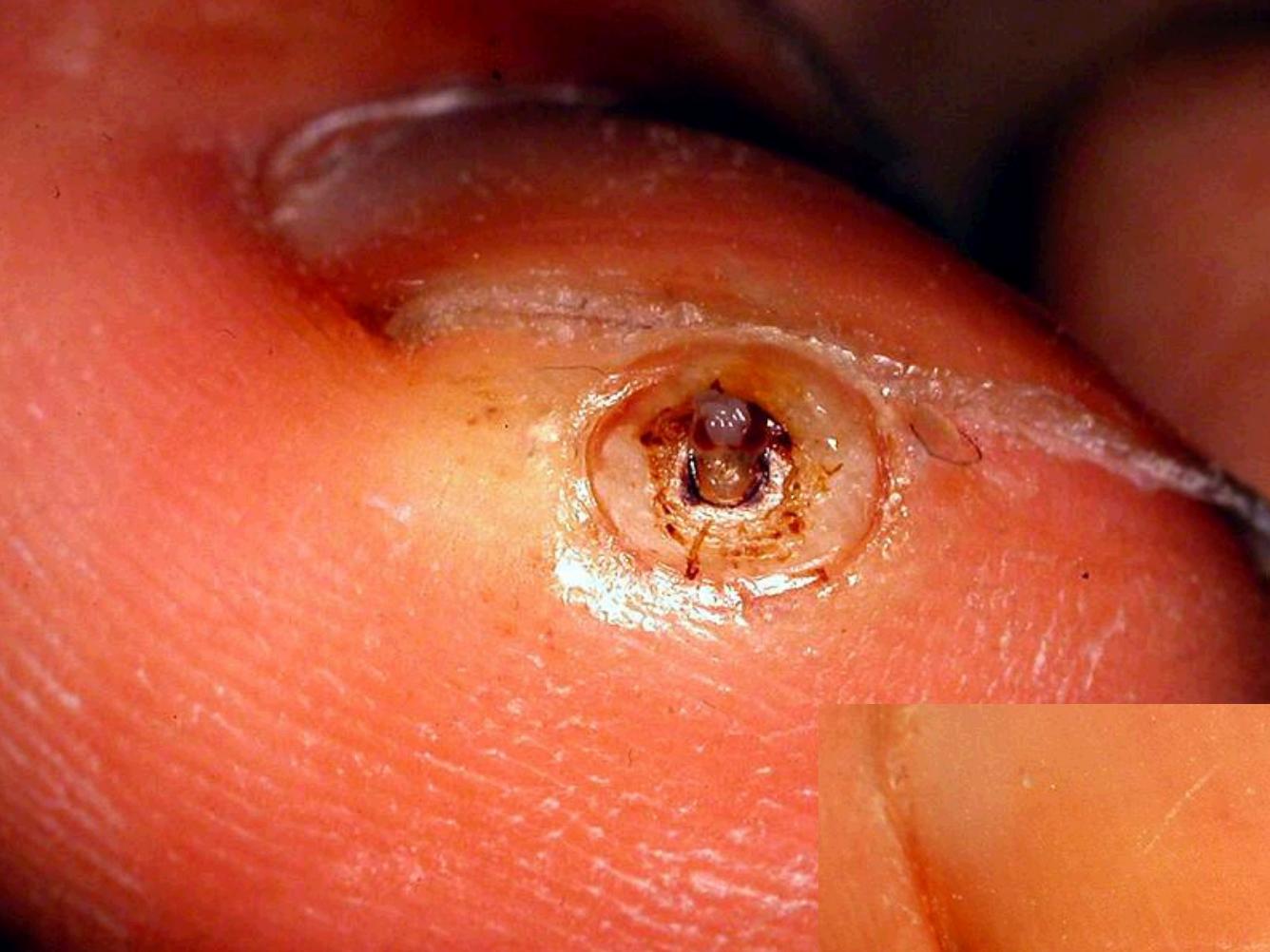






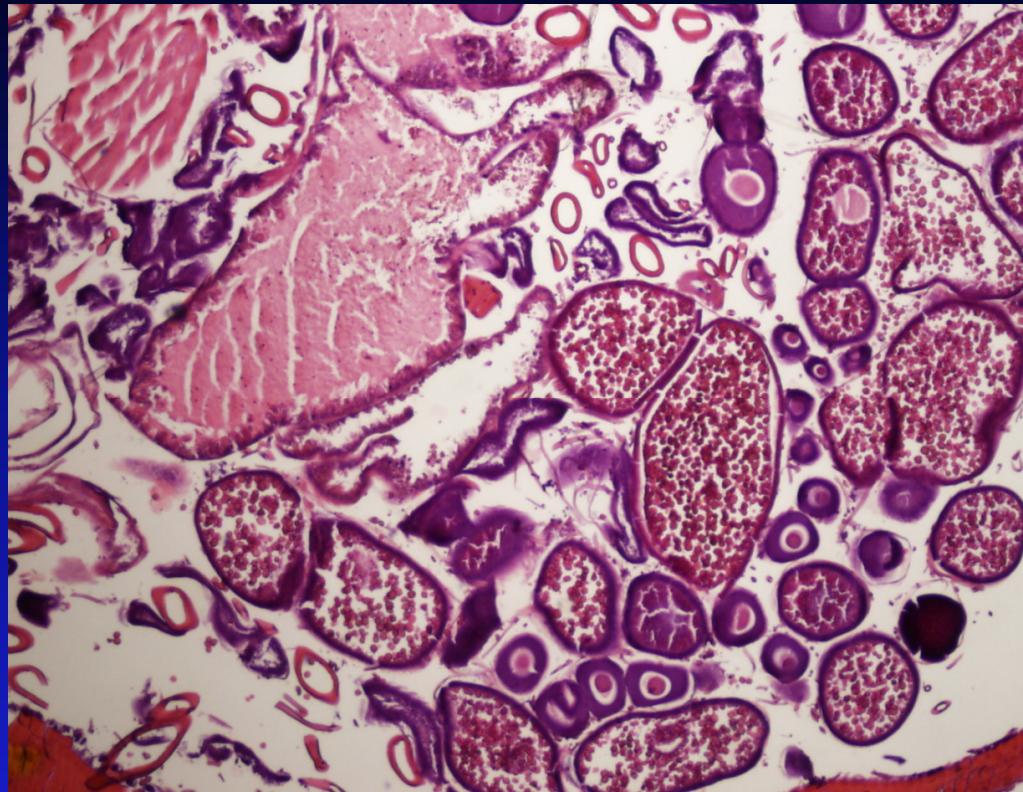
***Schistosoma haematobium***

- Back from holidays..
- Left big toenail
- 31-year-old male





↑ Coll. B. Richert



**Tungiasis (*Tunga penetrans*)**



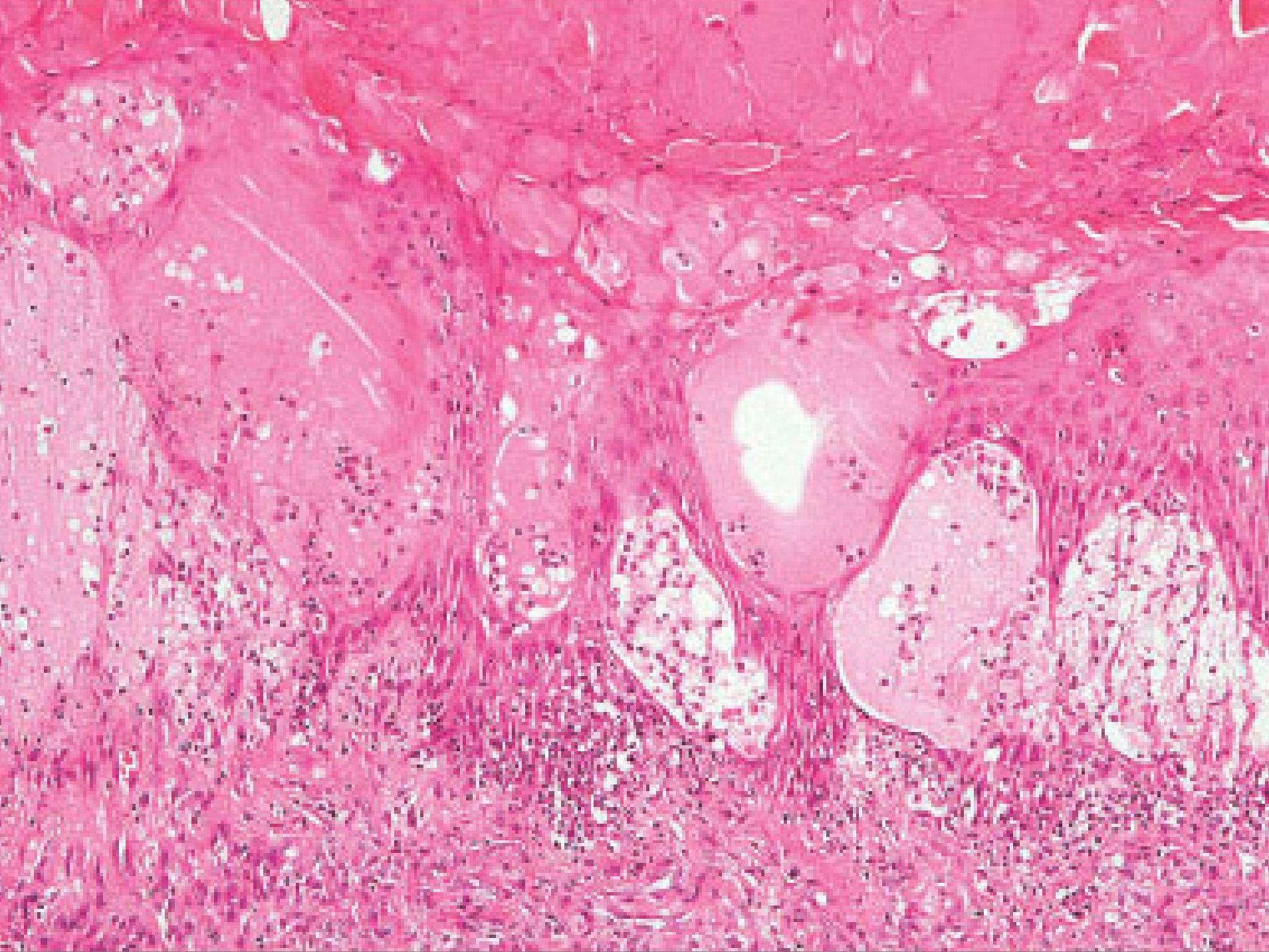
↑ Coll. D. de Berker, UK



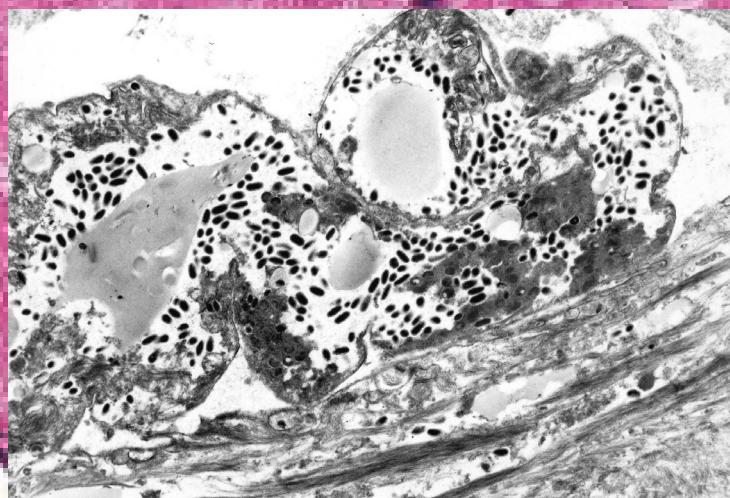
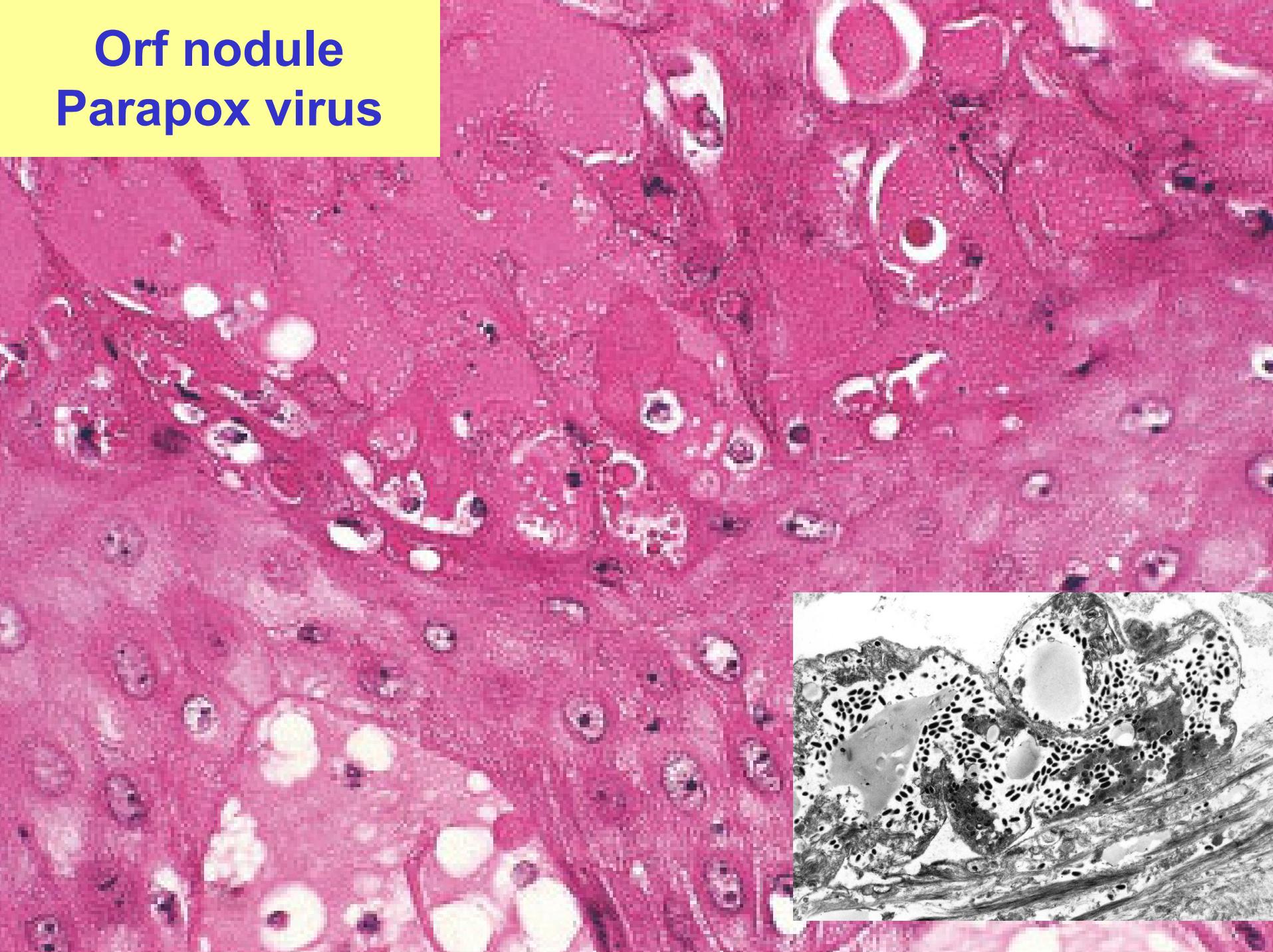
↑ Coll. Prof Dupré, France

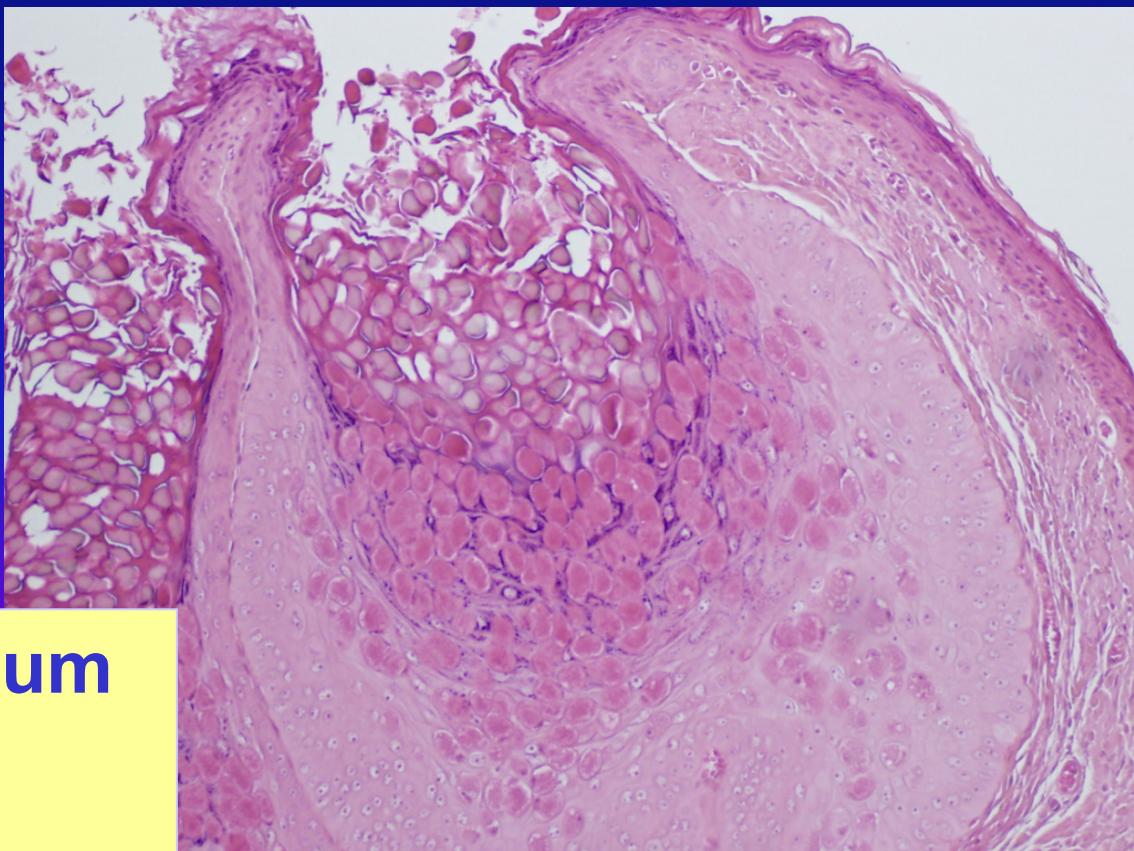
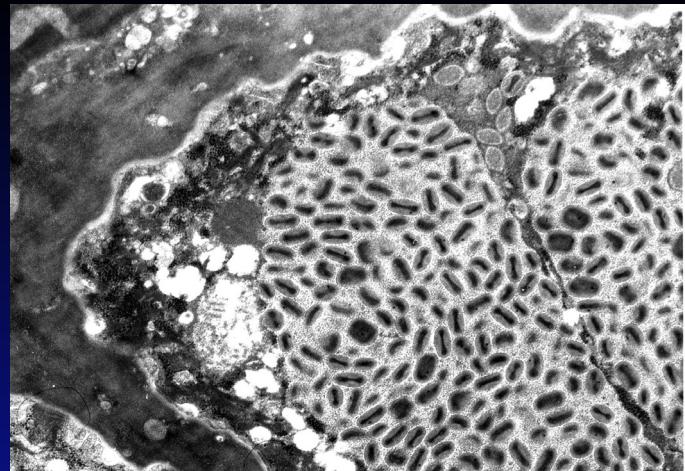
- 50-year-old man
- Nodular, oozing nodule on the right cheek evolving for 2 weeks





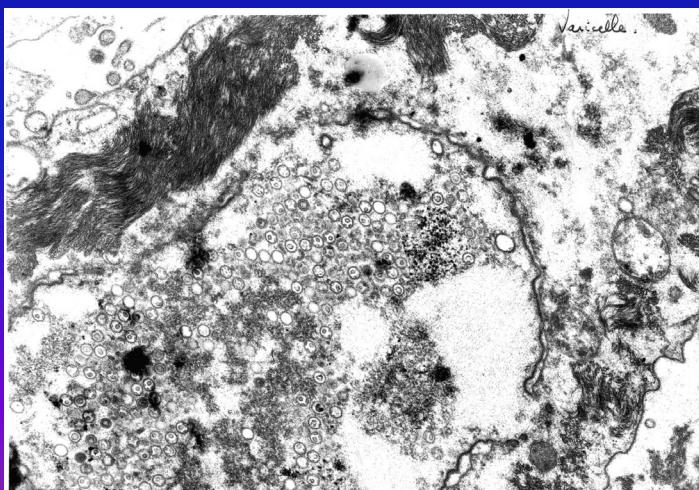
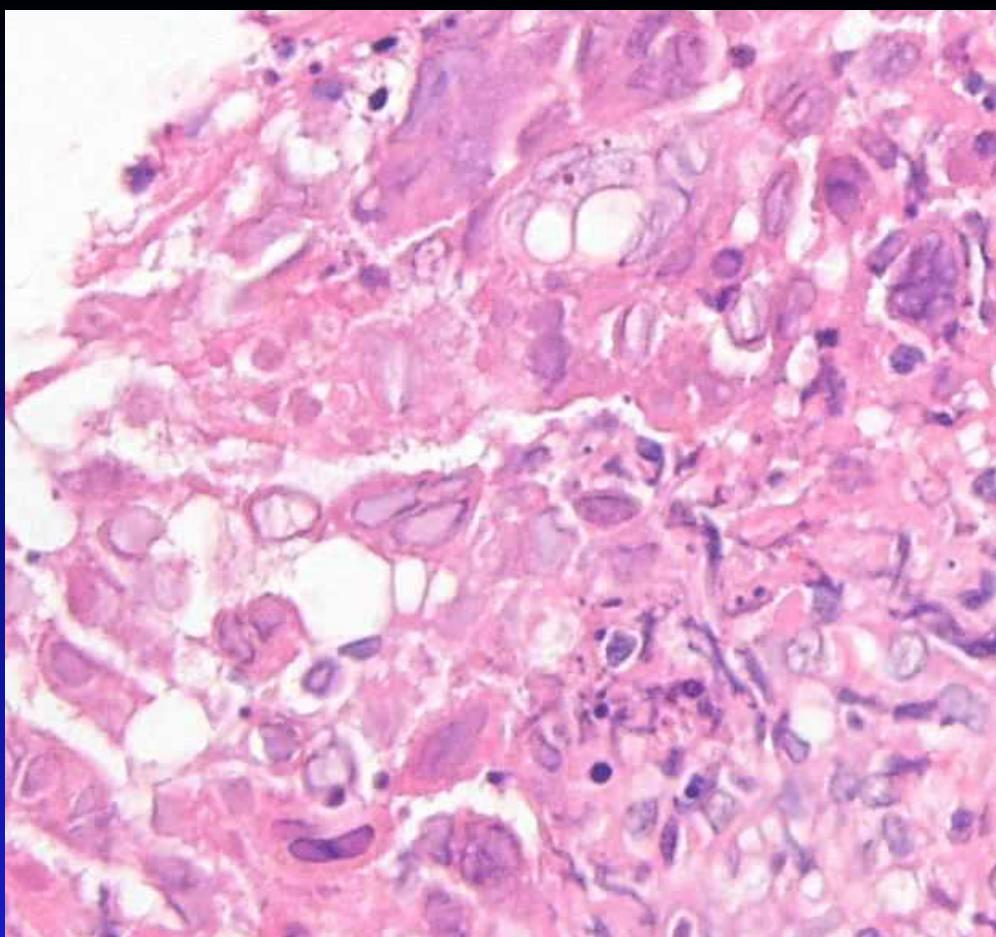
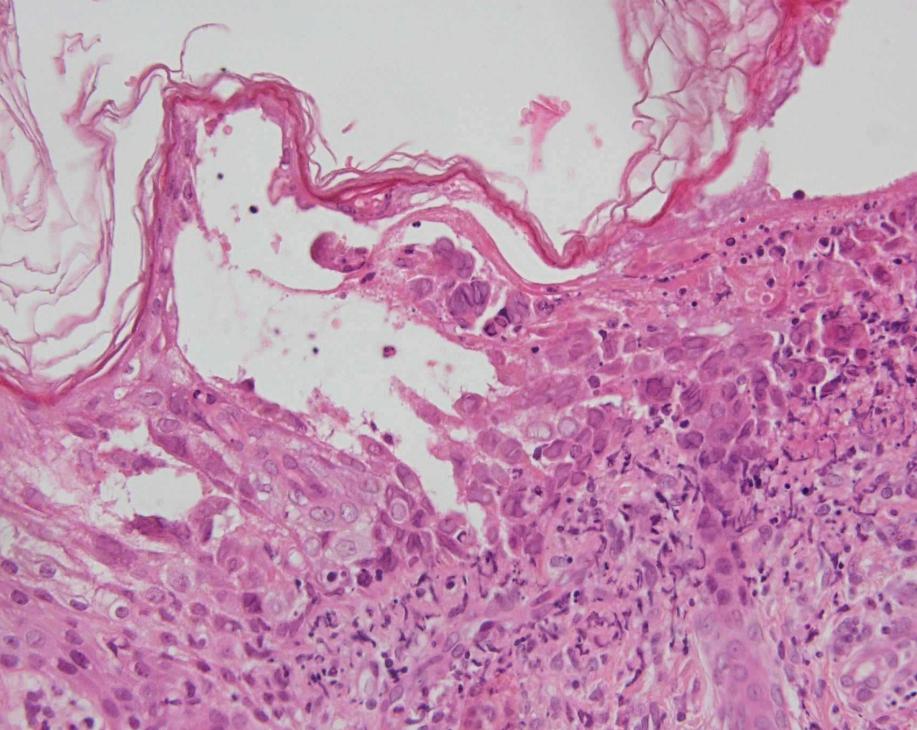
# Orf nodule Parapox virus



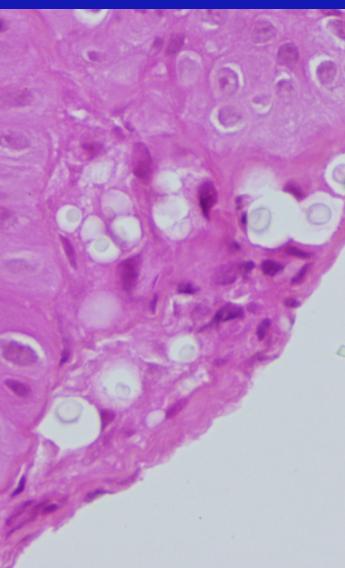
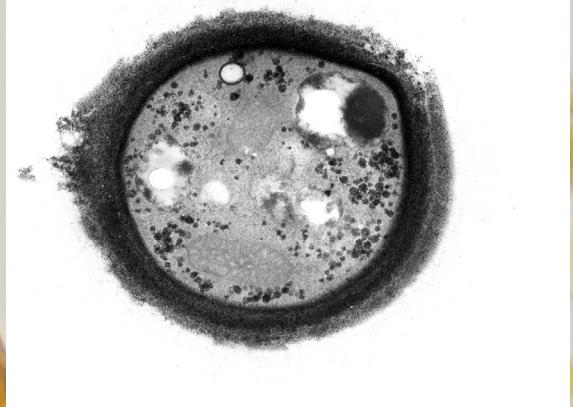
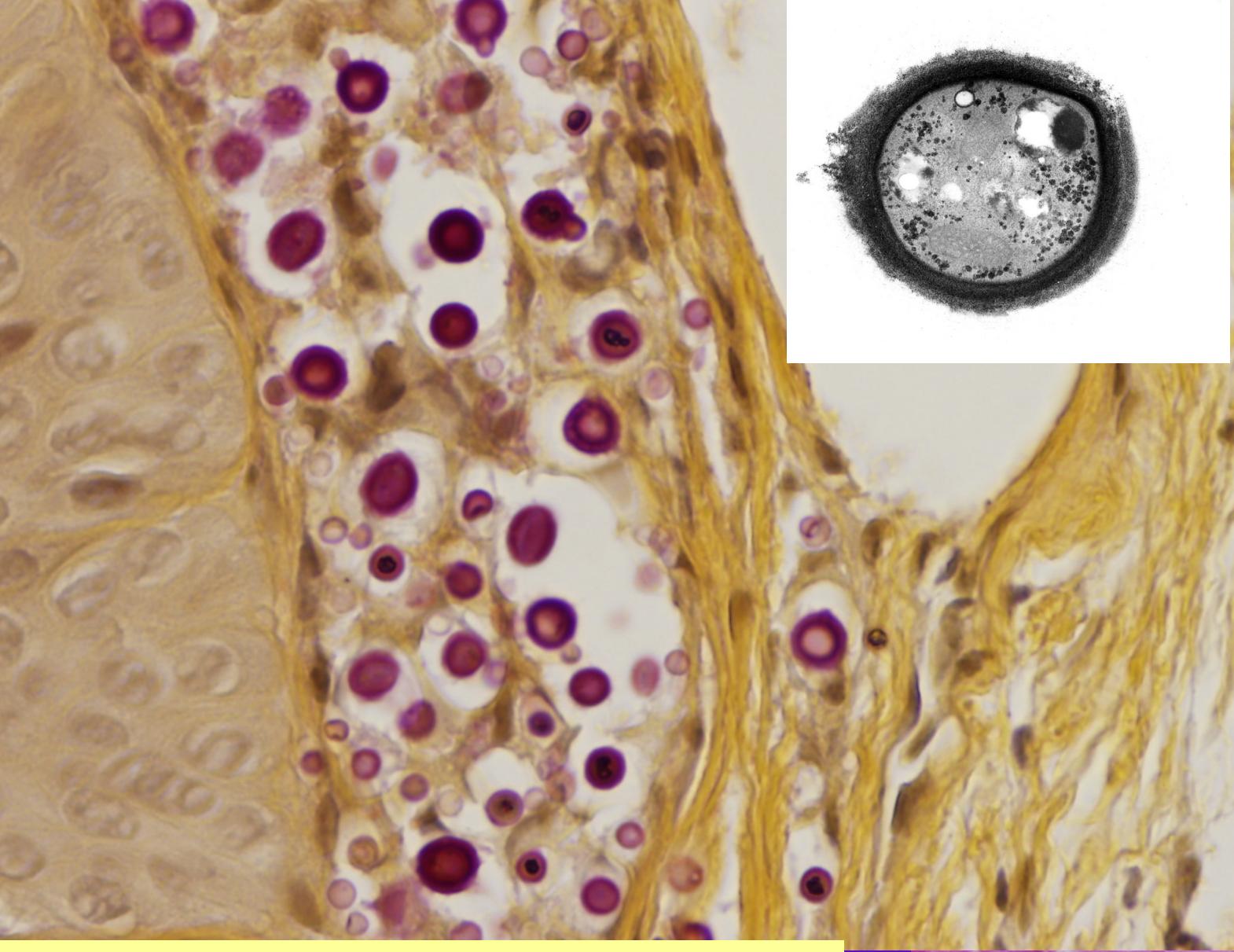


**Molluscum contagiosum**

**Molluscipox virus**

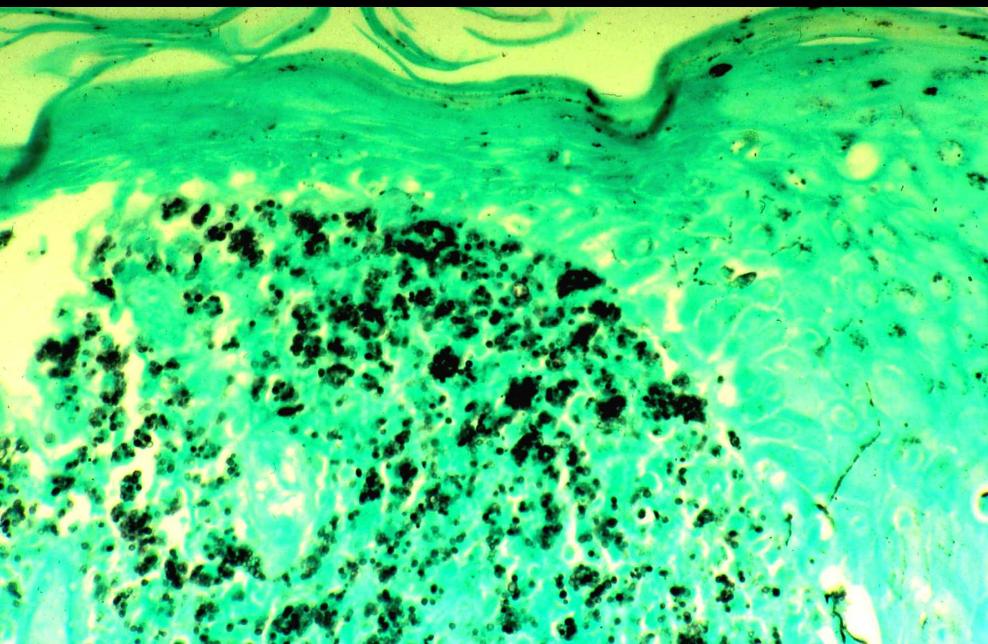


HZV

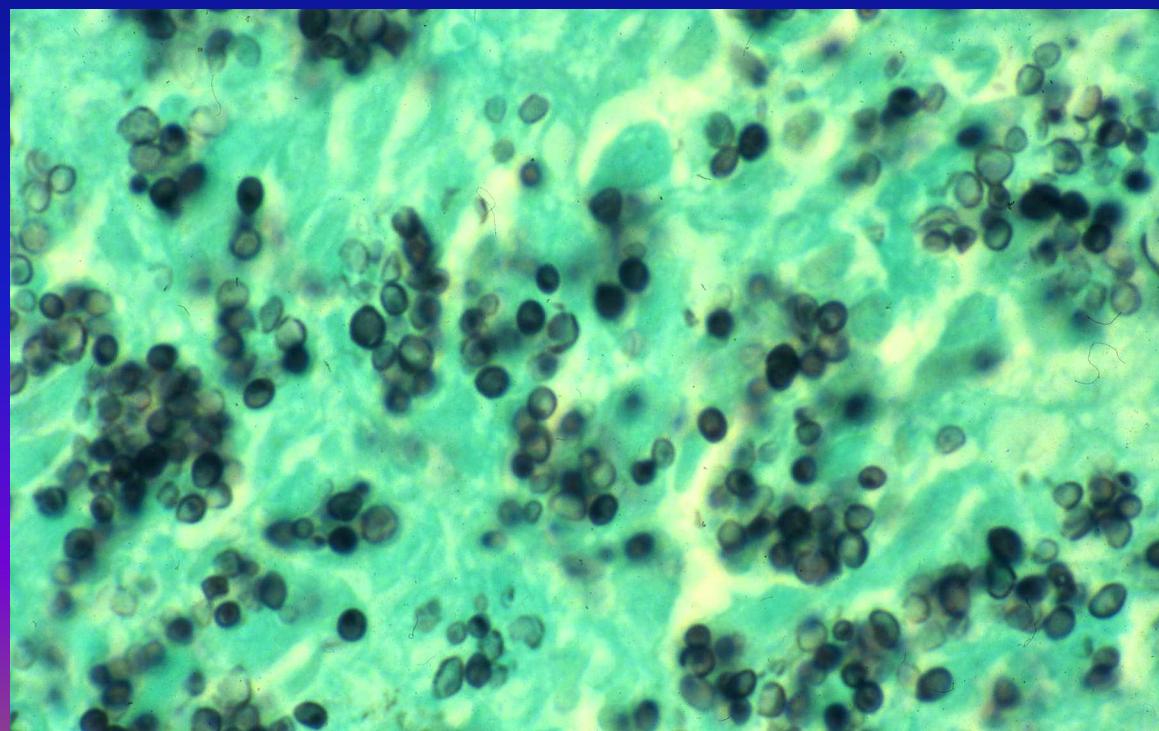


*Cryptococcus neoformans*





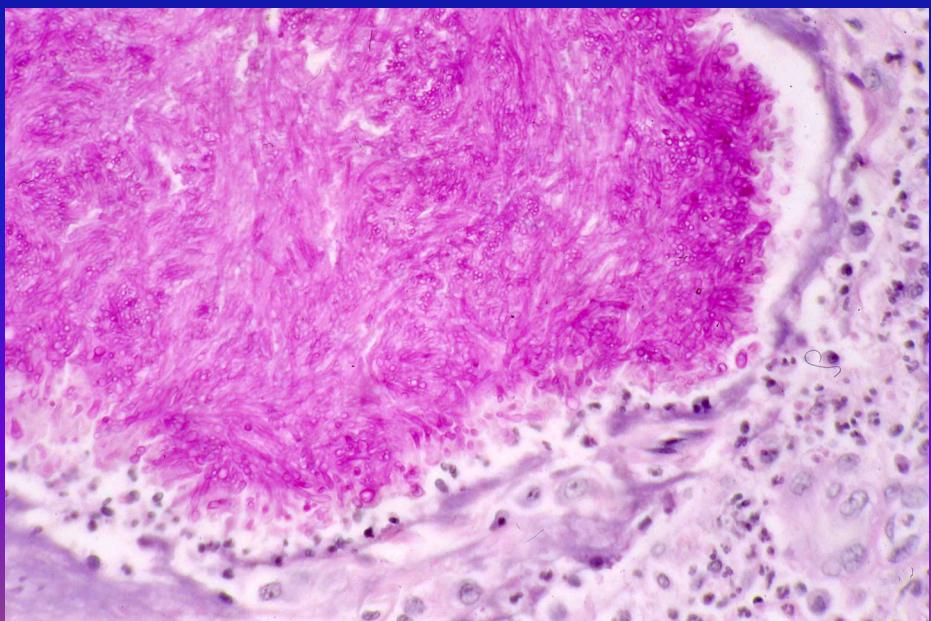
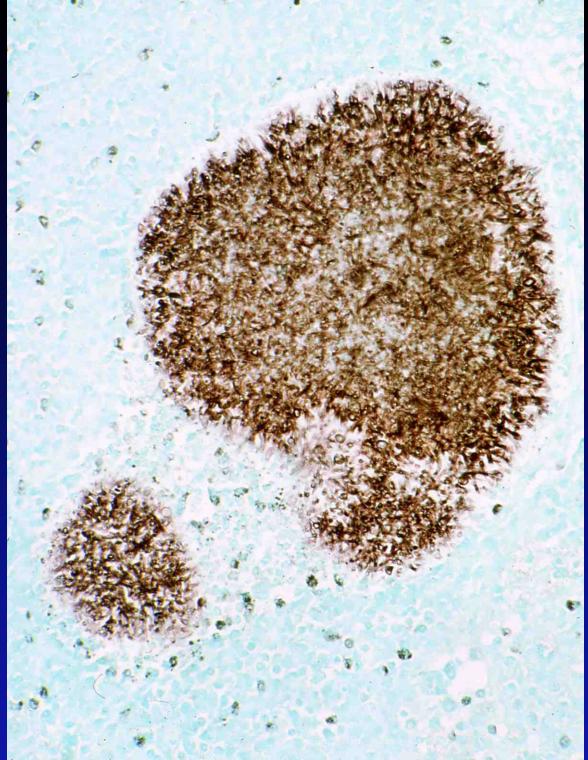
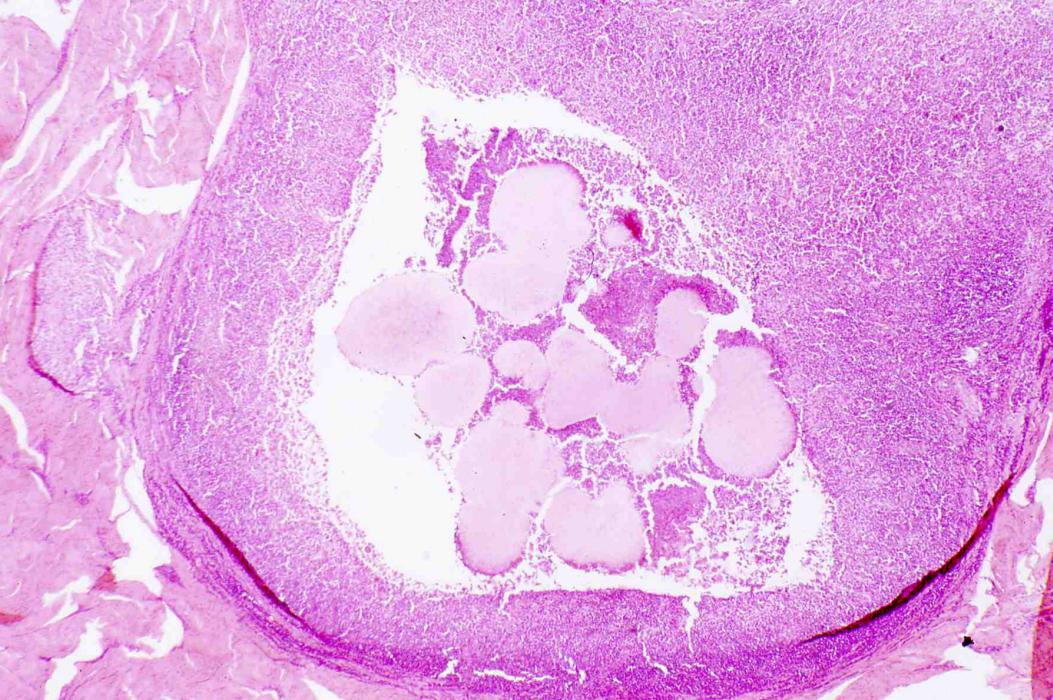
*Histoplasma*





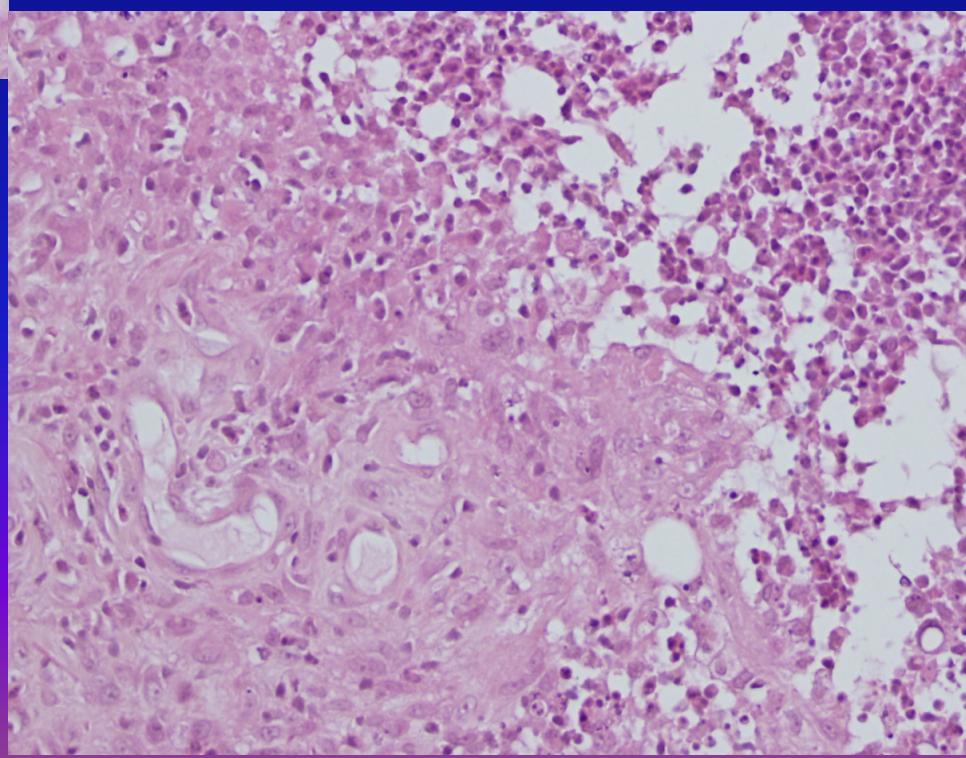
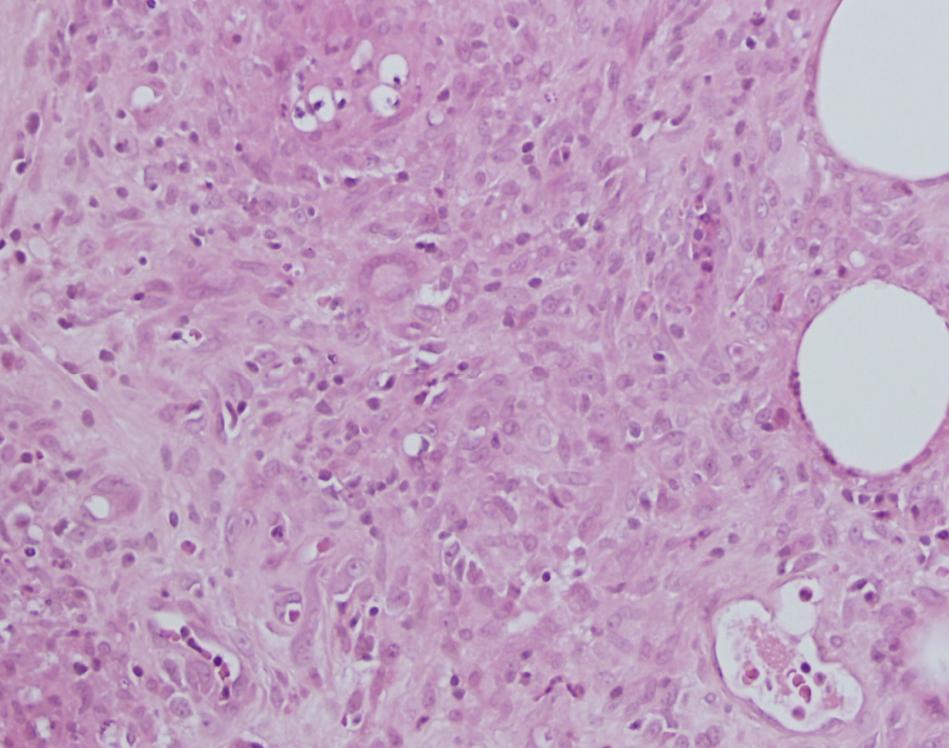
- 43-year-old Black African male
- Hypertrophic scar with 2 subcutaneous nodules and wrist swelling
- Clinical diagnosis
  - Keloid ?
  - Sarcoidosis ?

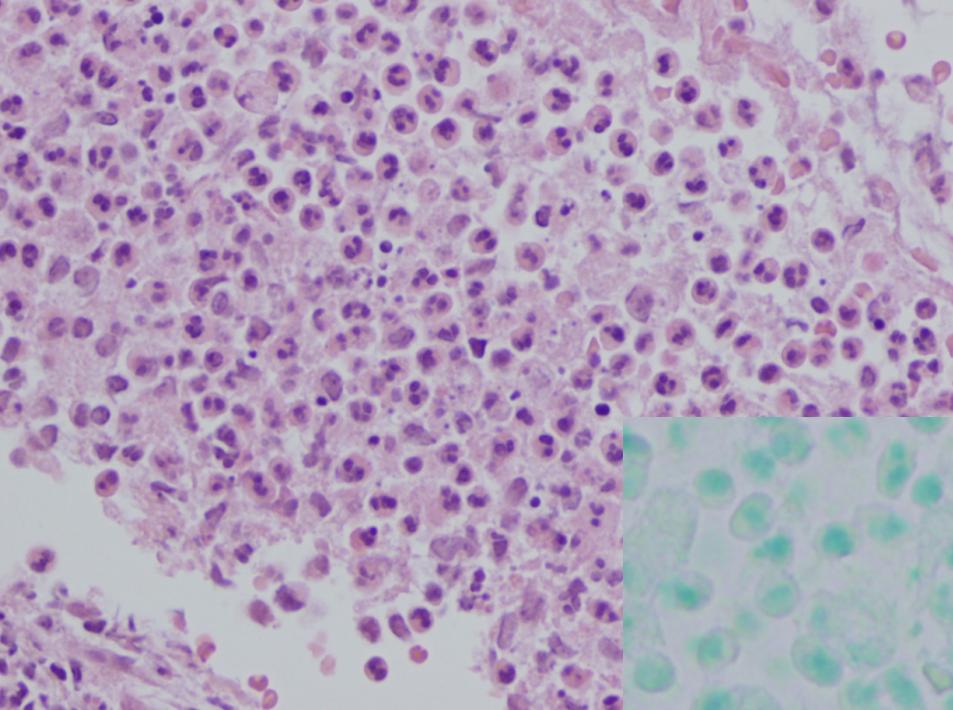




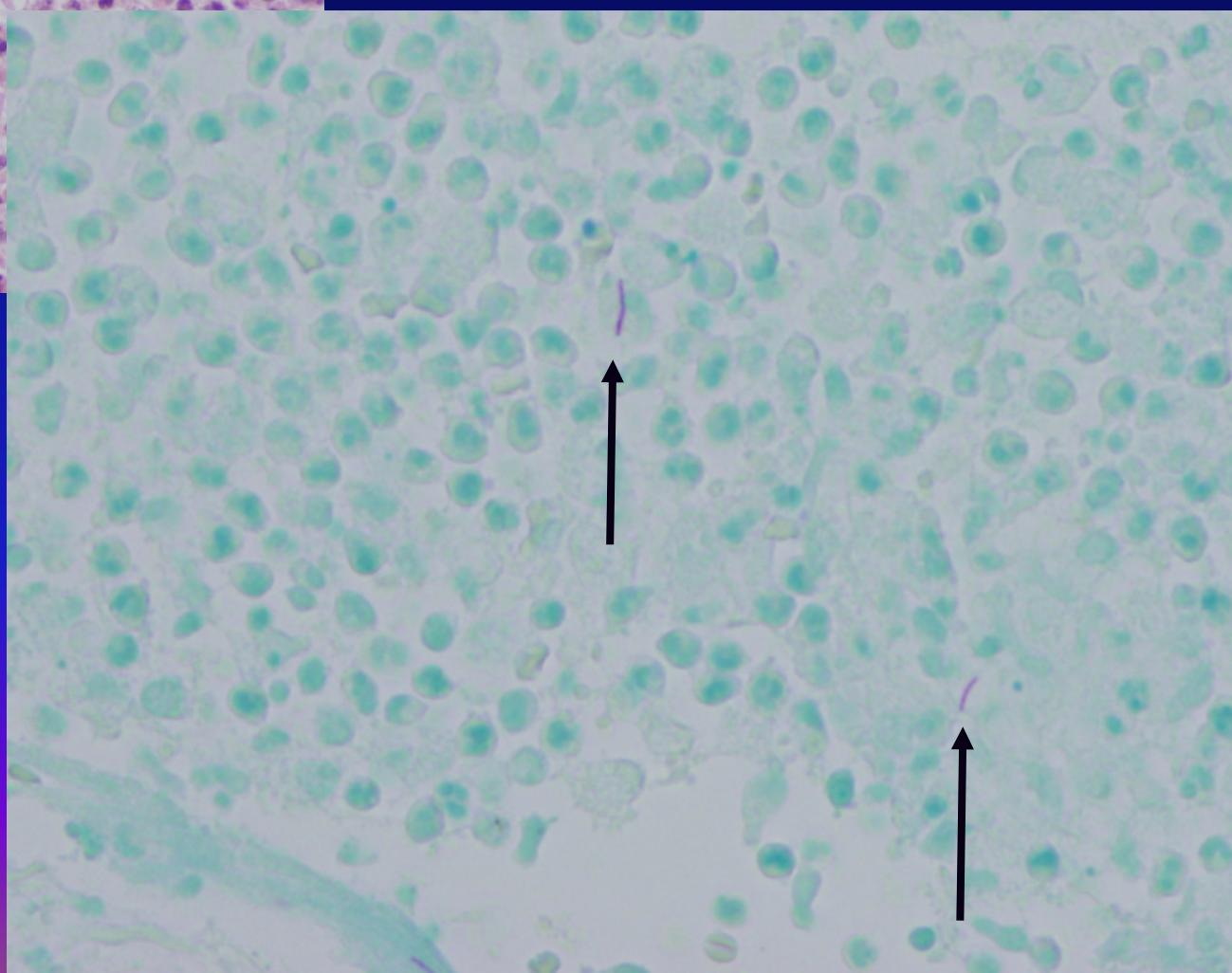
*Fusarium solani*







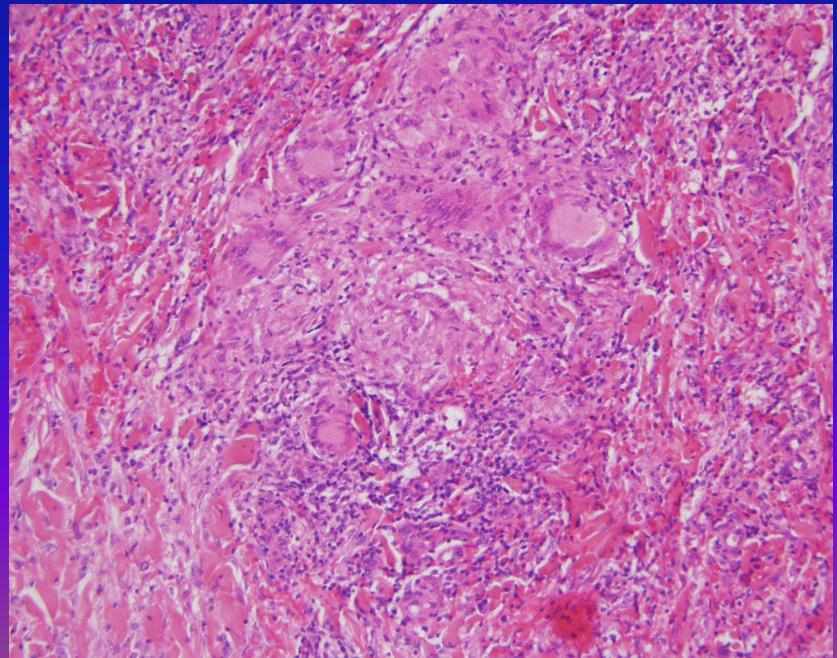
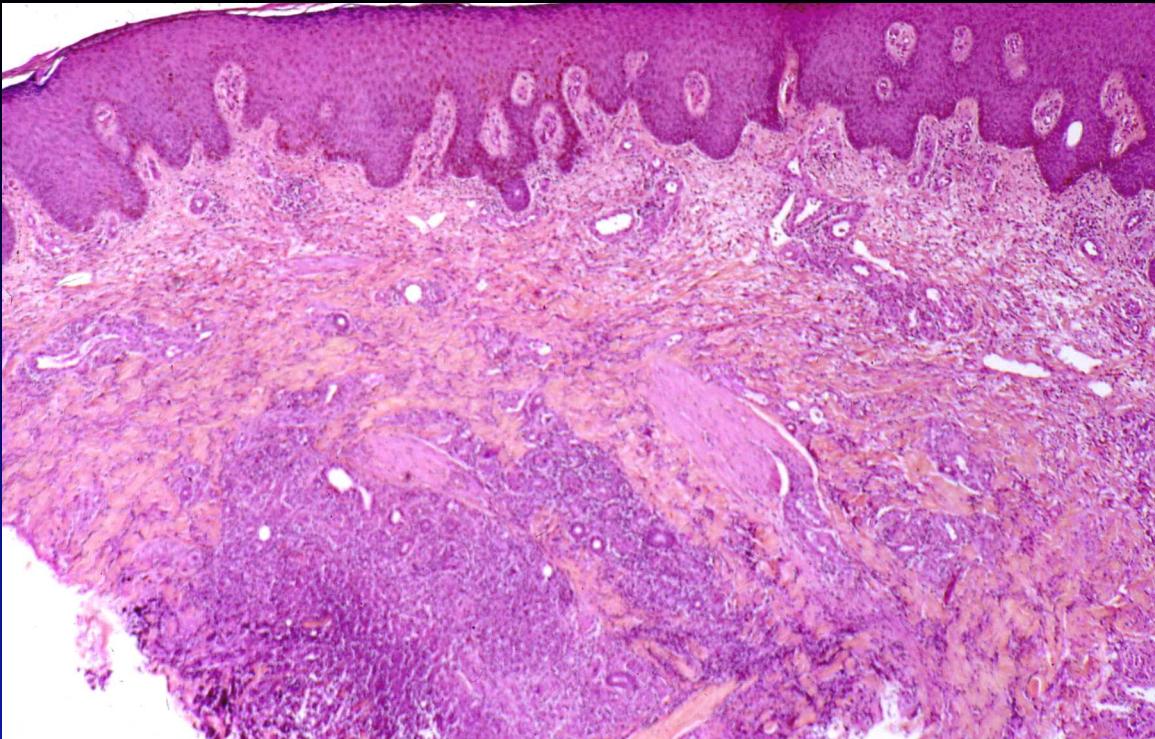
## *Mycobacterium marinum*







↑ Coll. M. de la Brassinne

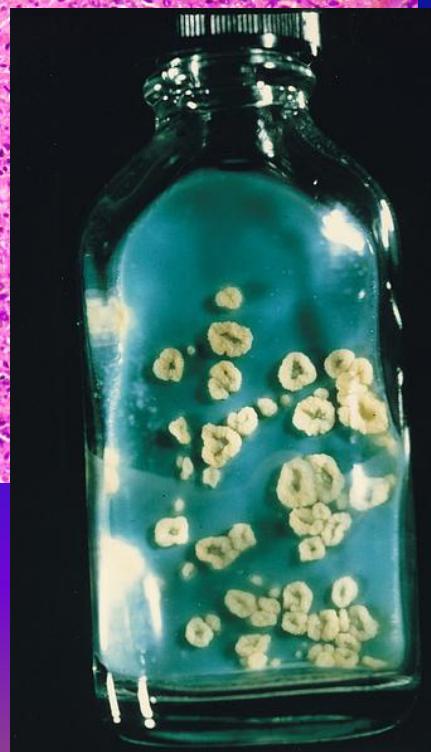
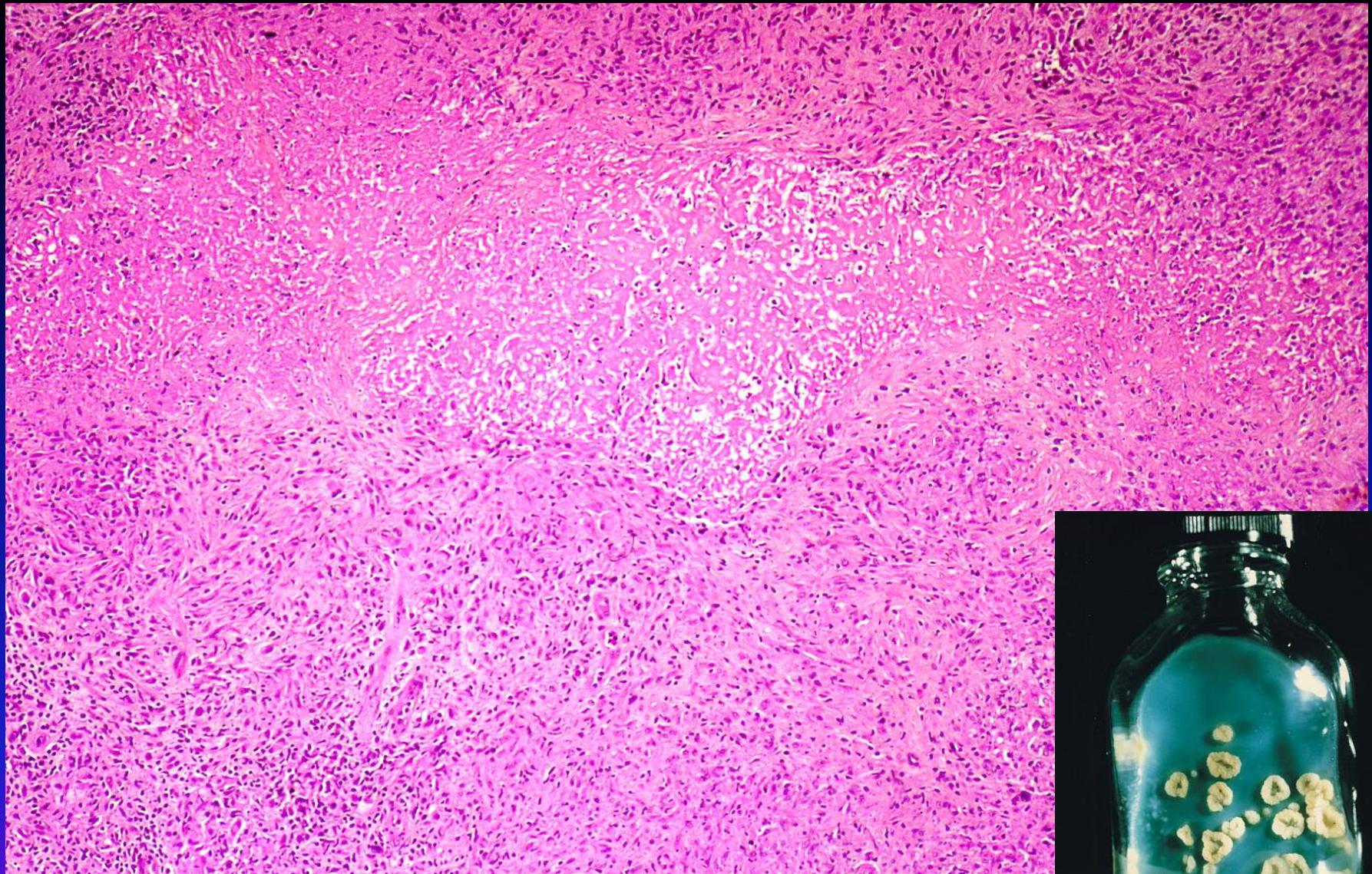


***Mycobacterium chelonae***



↑ Coll. B. Cribier, France

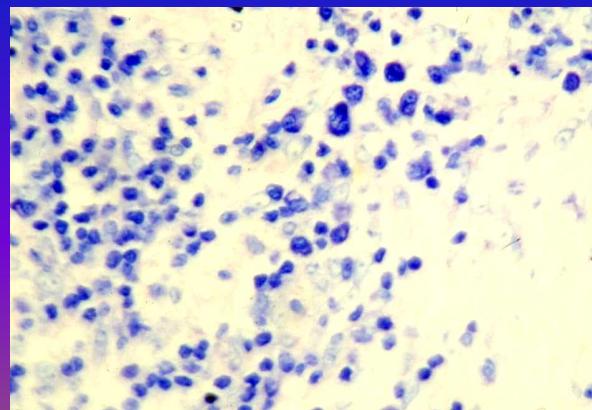
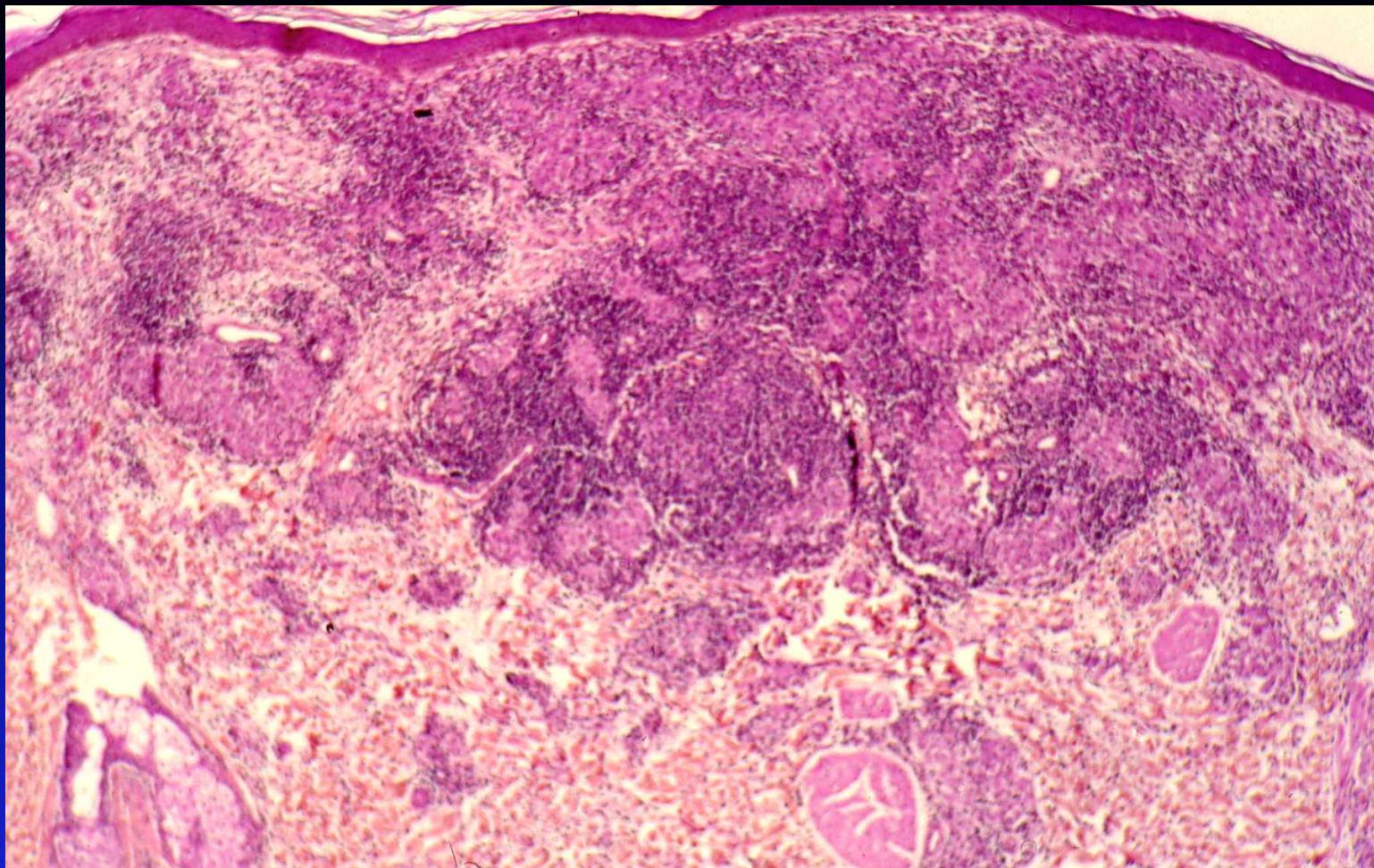


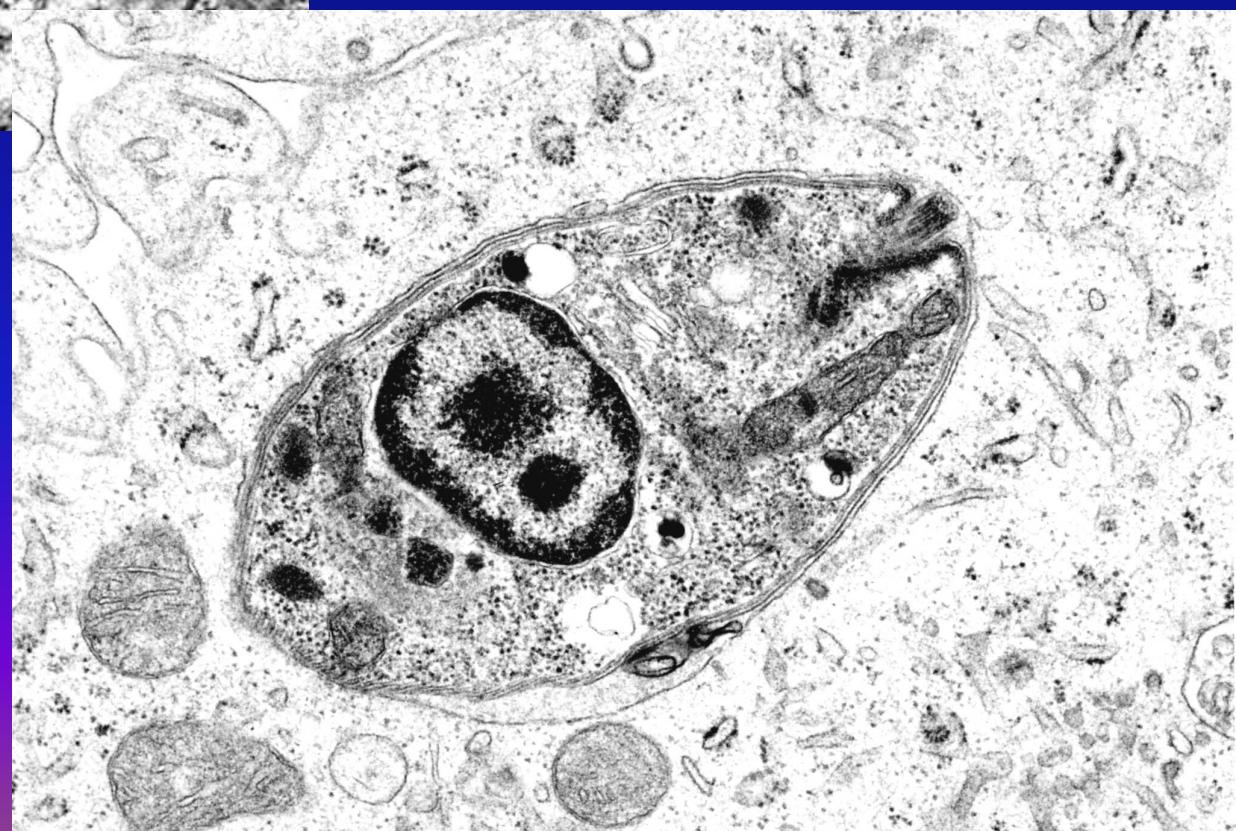


***Mycobacterium tuberculosis***

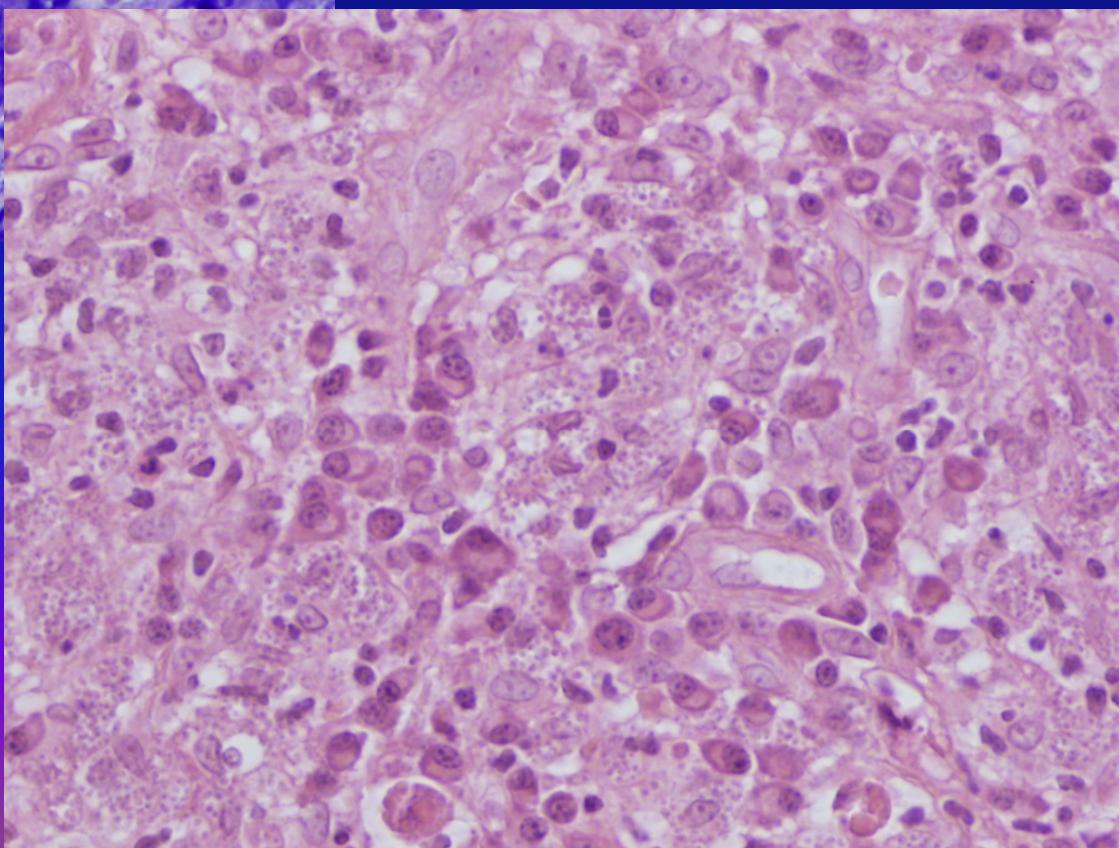
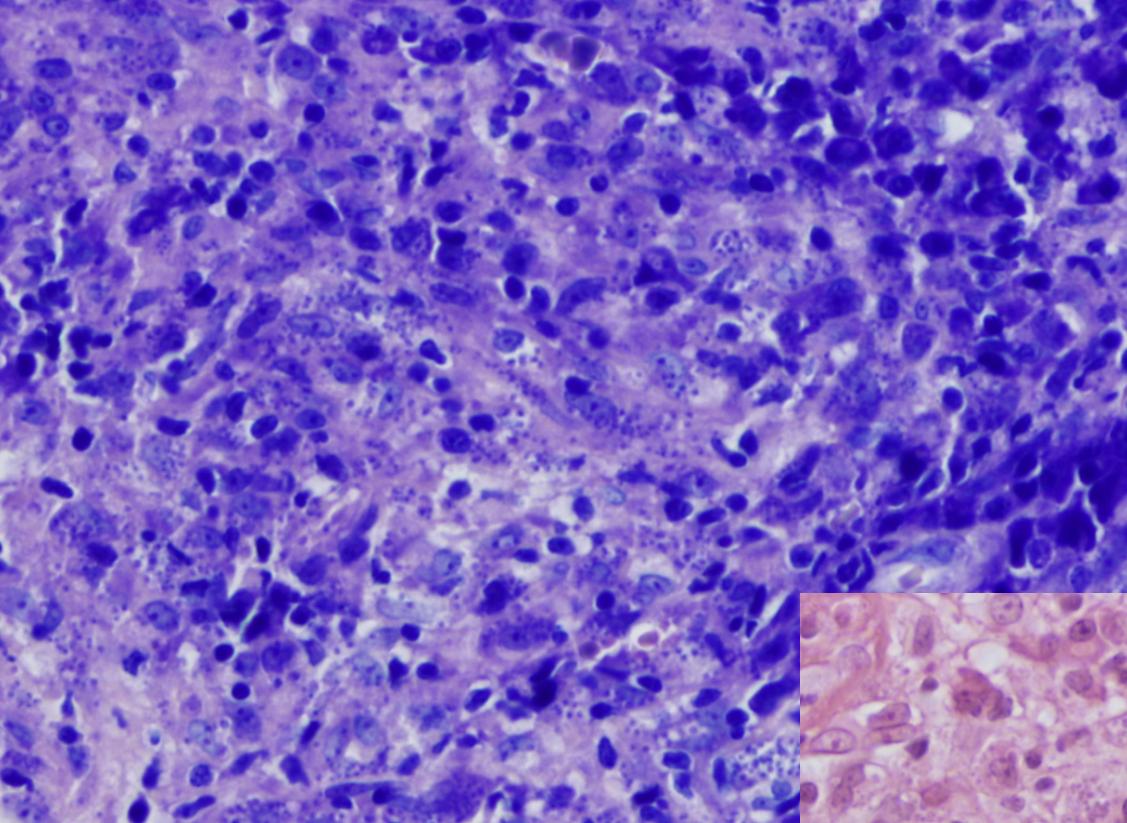
- 66-year-old patient
- Retired professor of medicine
- Back from holidays in the Nice area
- Some erythematous and yellowish nodules located on the trunk





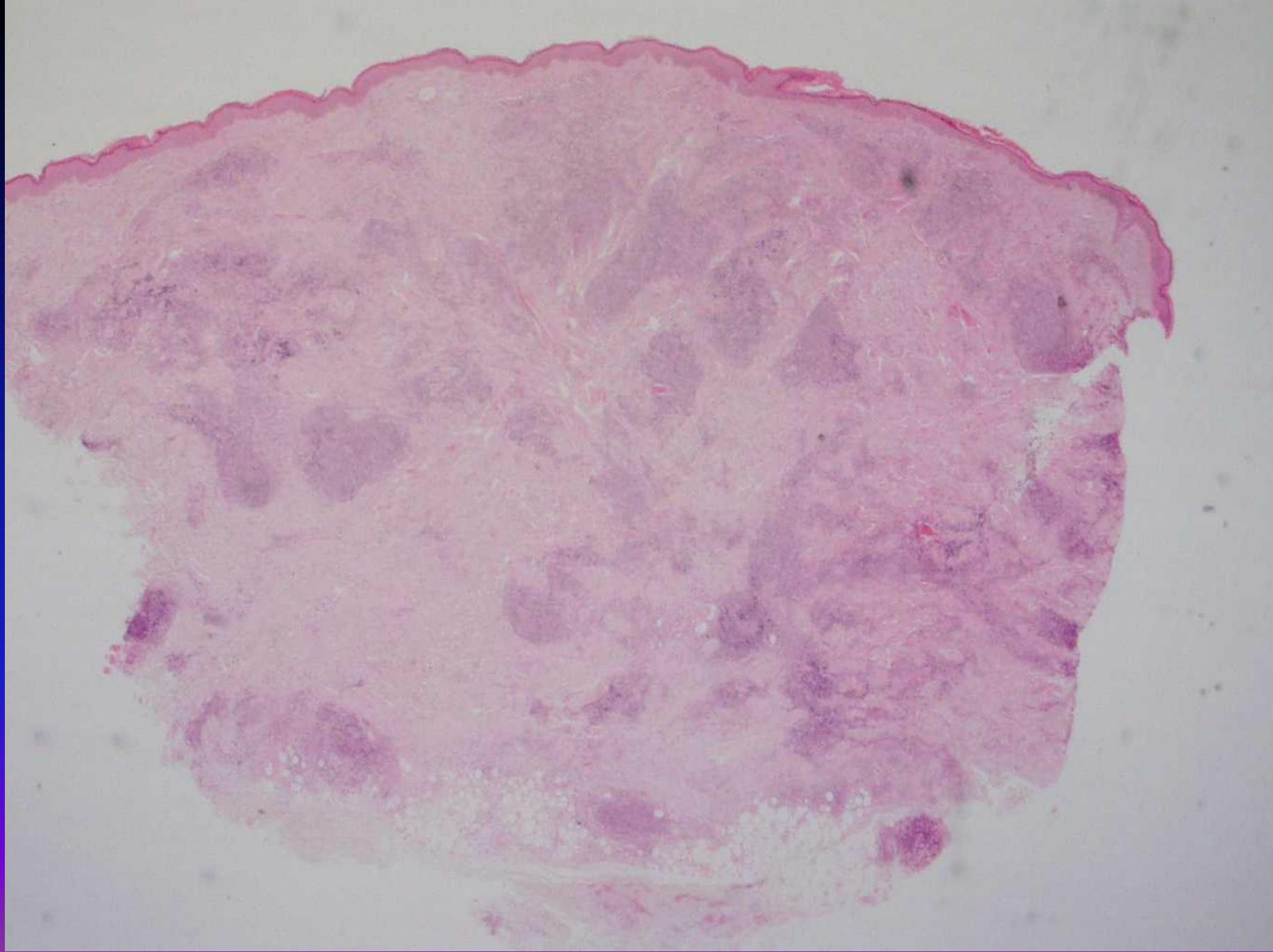


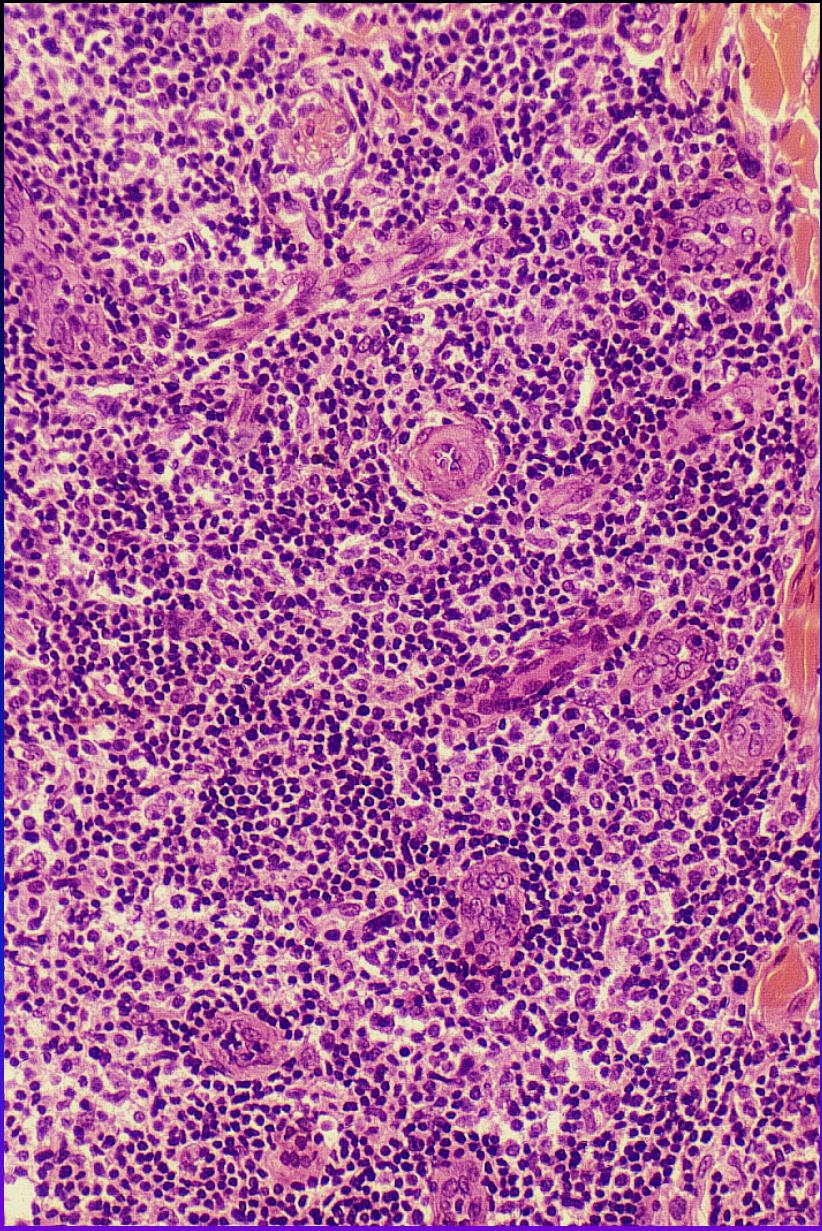
# Leishmania



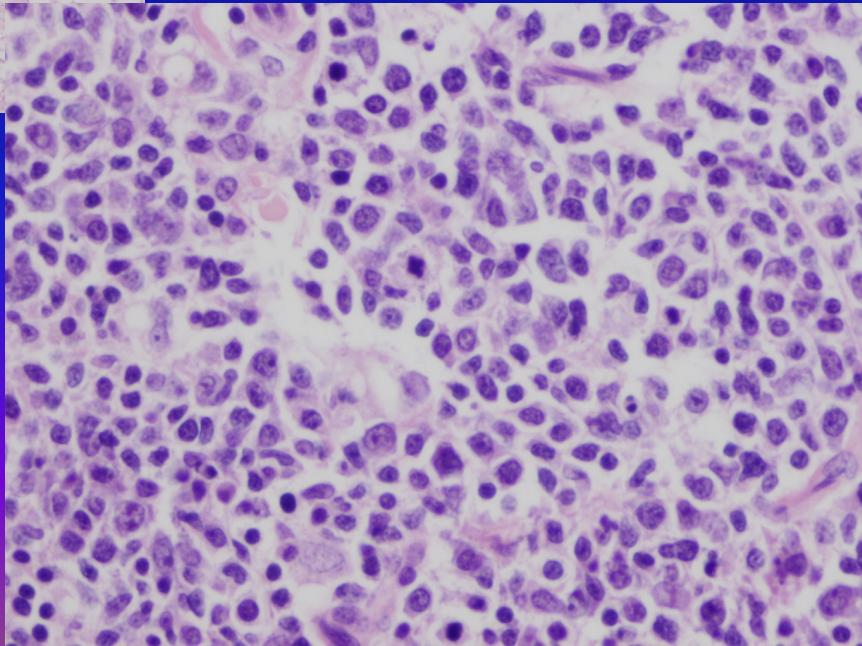
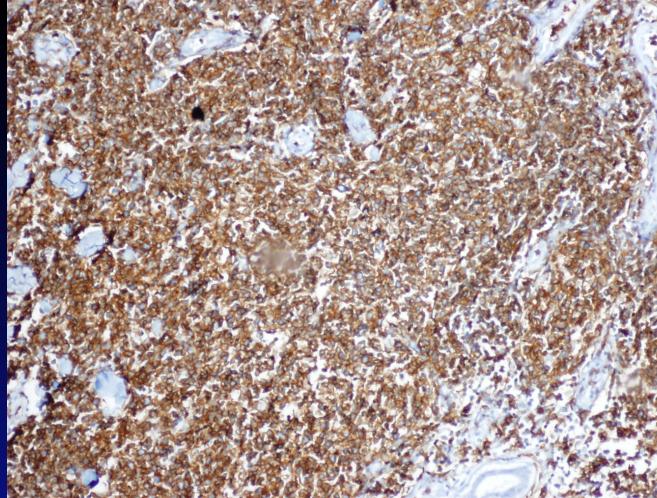
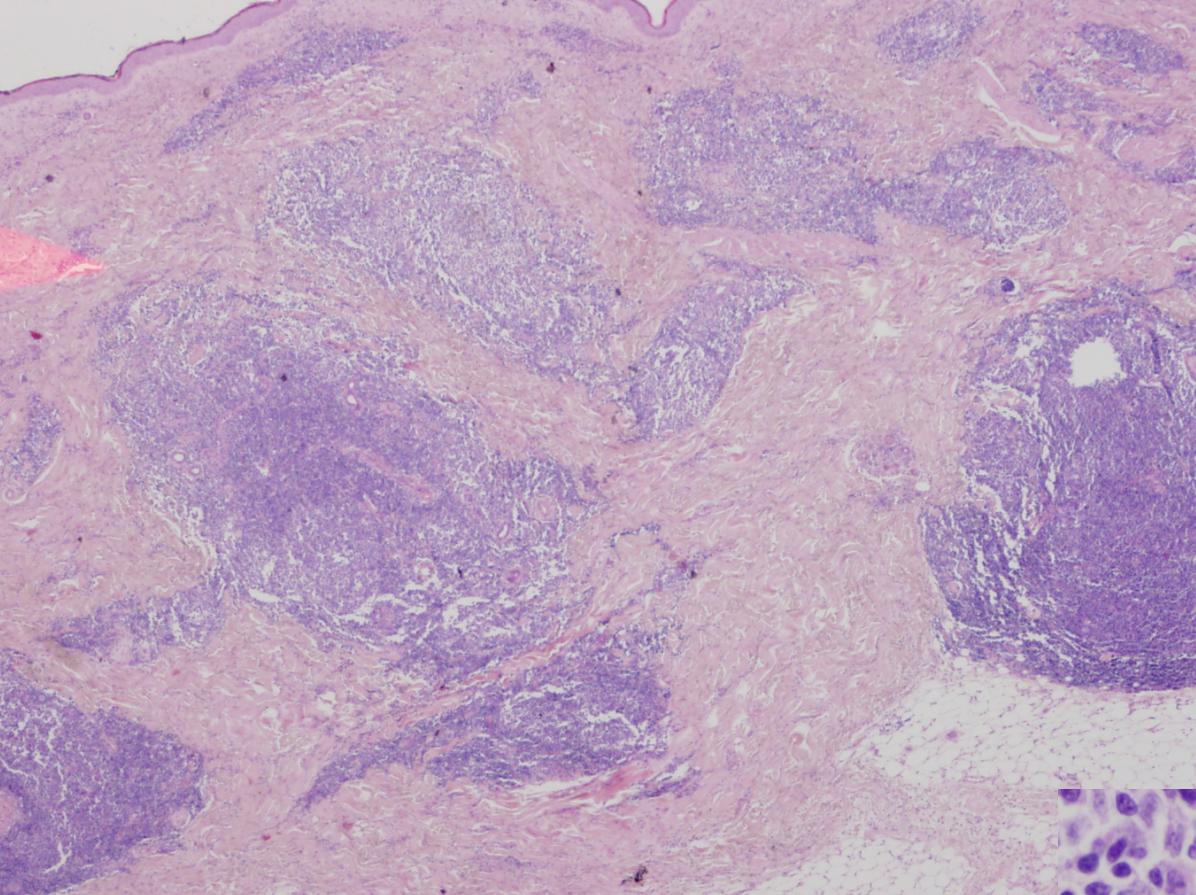


↑ Coll. B. Cribier, France





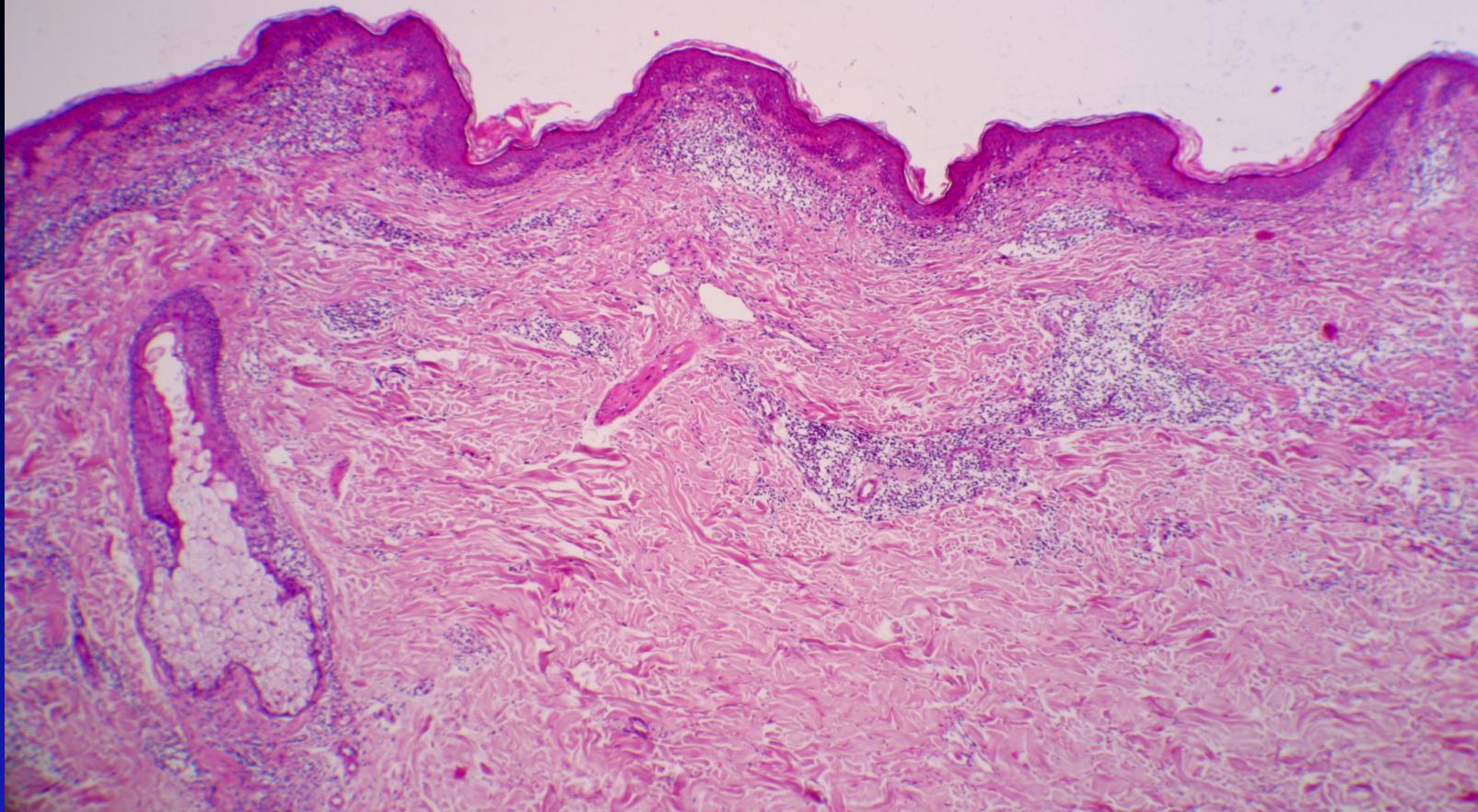
Lyme disease  
Pseudo lymphoma



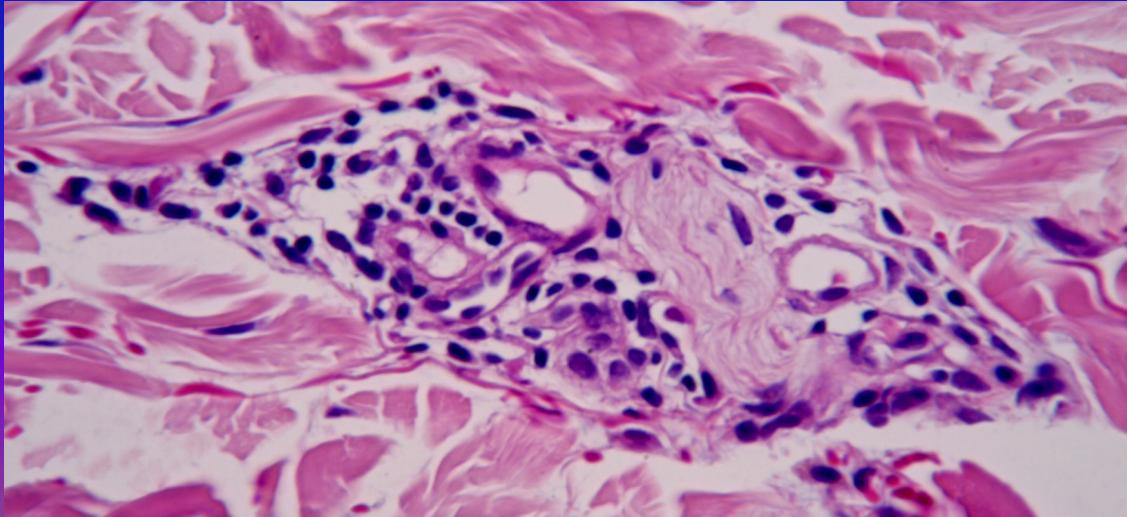
**Marginal zone lymphoma  
(PCR + Borrelia)**

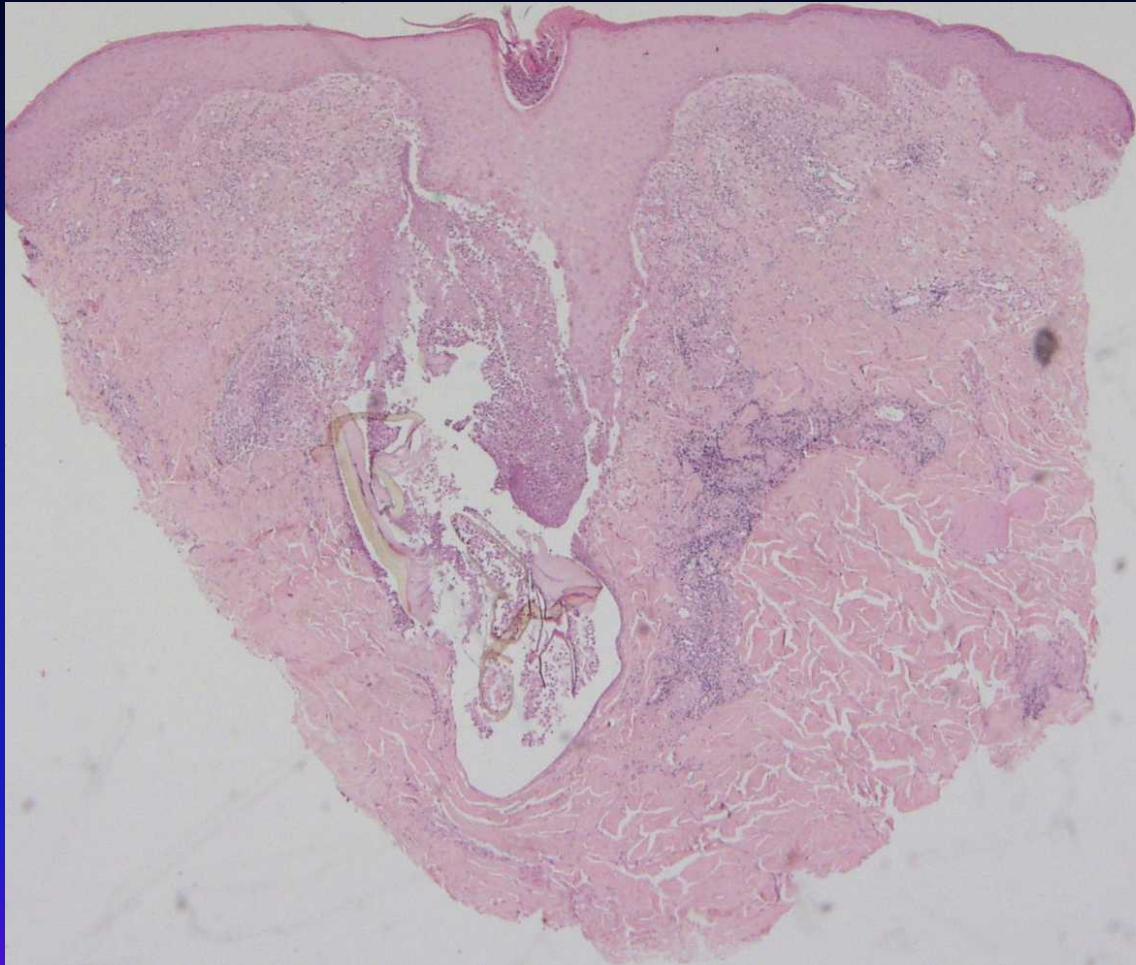
# Erythemato-squamous and atrophic Lesions





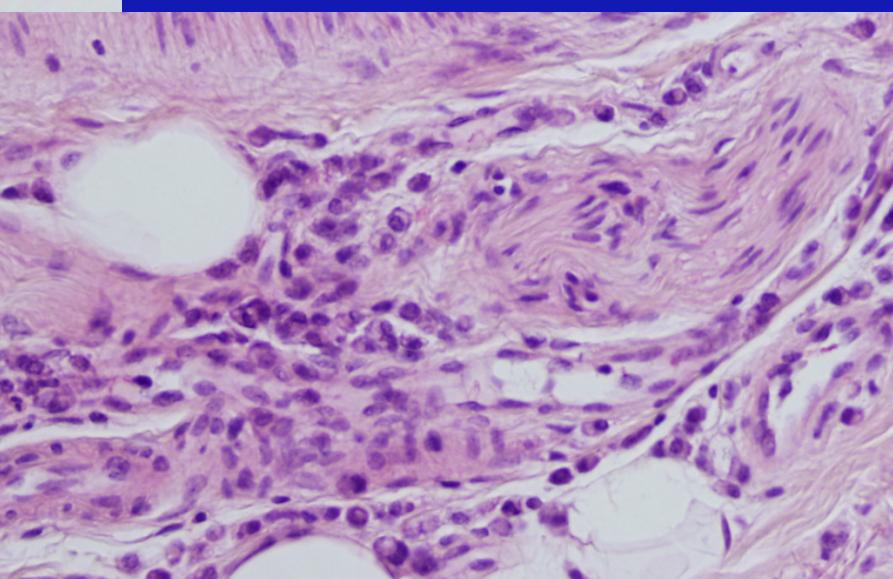
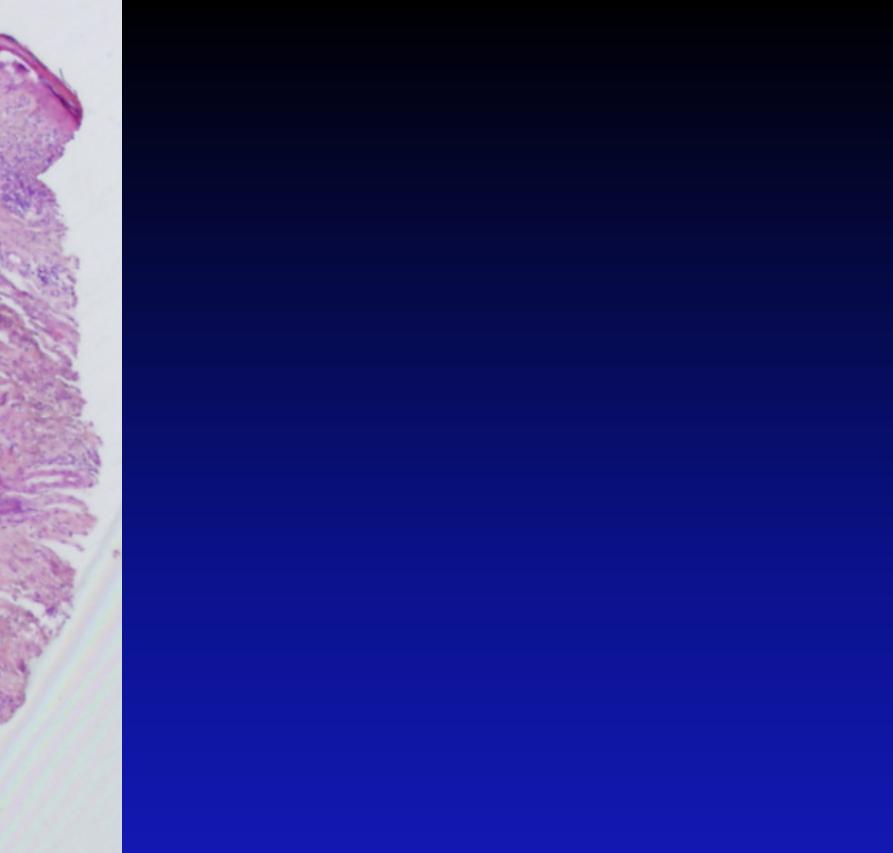
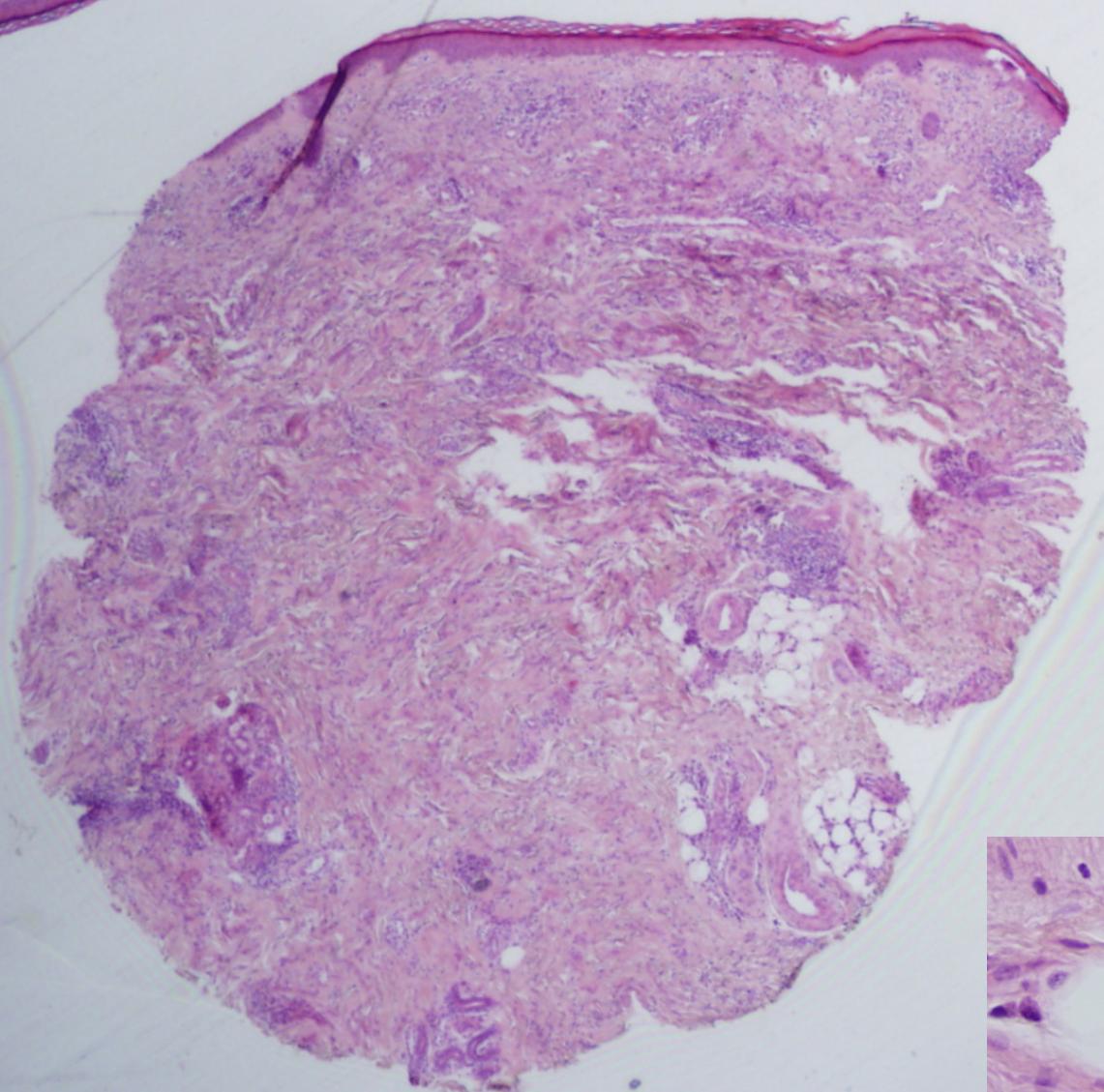
Lyme disease  
Erythema chronicum  
migrans







*Coll. B. Cribier, France*

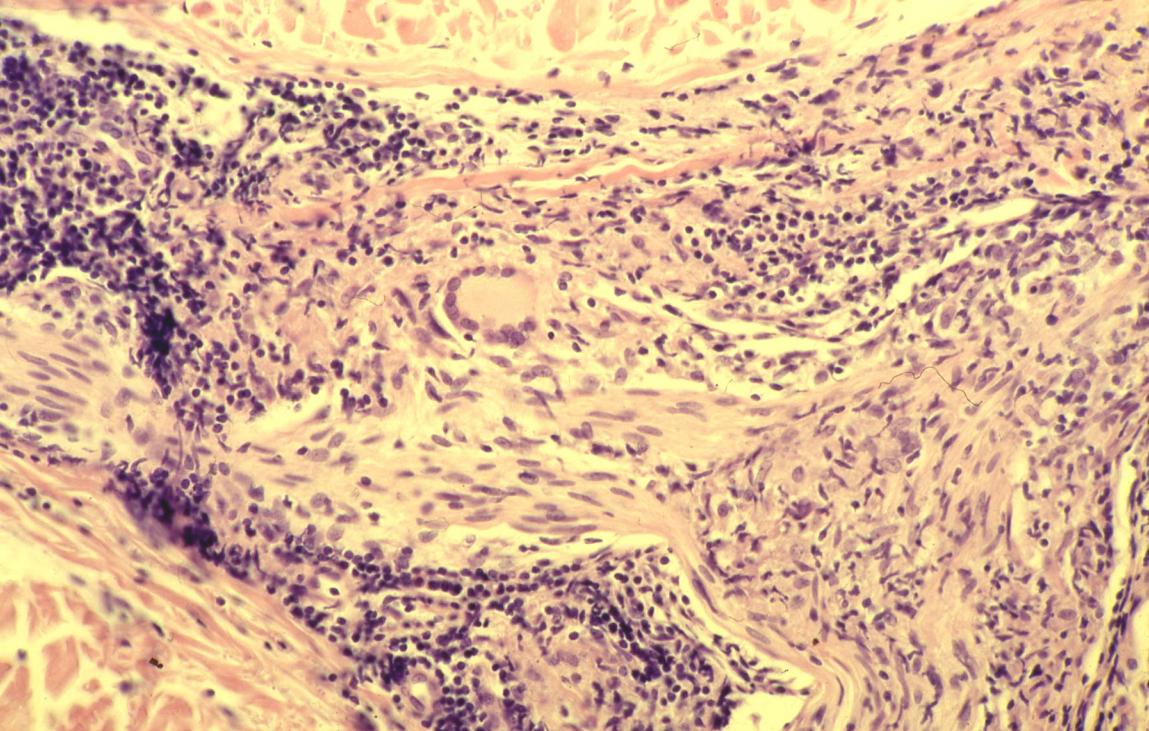


Lyme disease  
*Acrodermatitis chronica  
atrophicans*

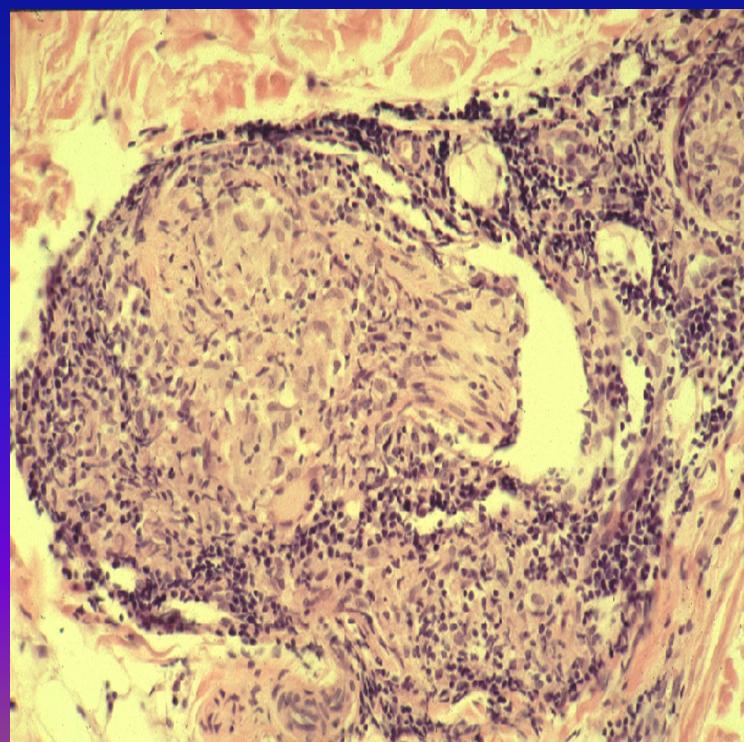
- 28-year-old man from Mali
- Hypopigmented, anesthetic macules
- Infiltrated edges







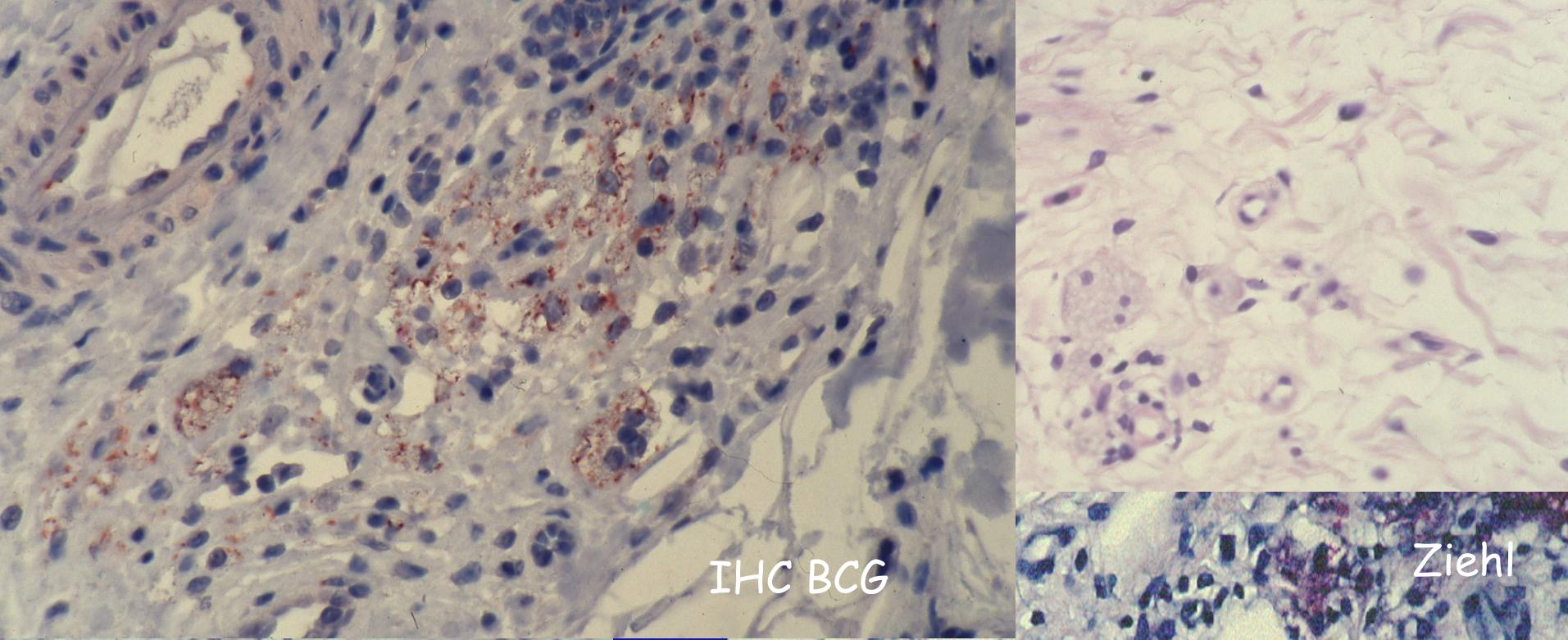
*Mycobacterium leprae*  
Tuberculoid leprosy



- 38 year-old male from Guinea
- Hypoesthetic papules and nodules on ear lobes



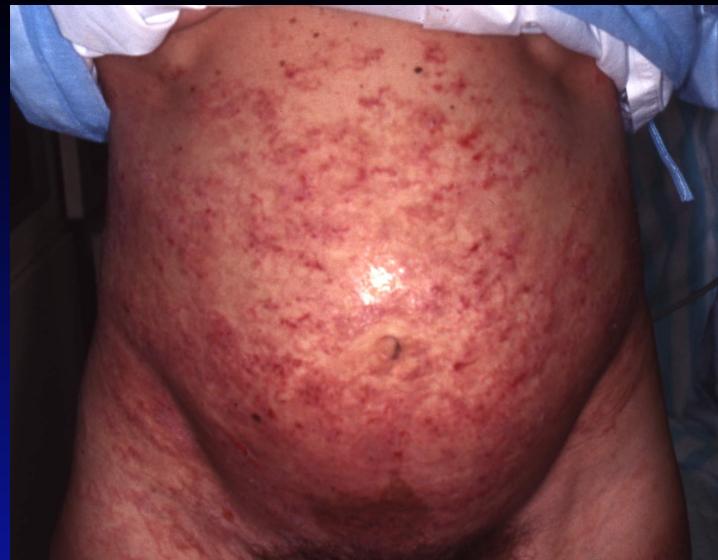




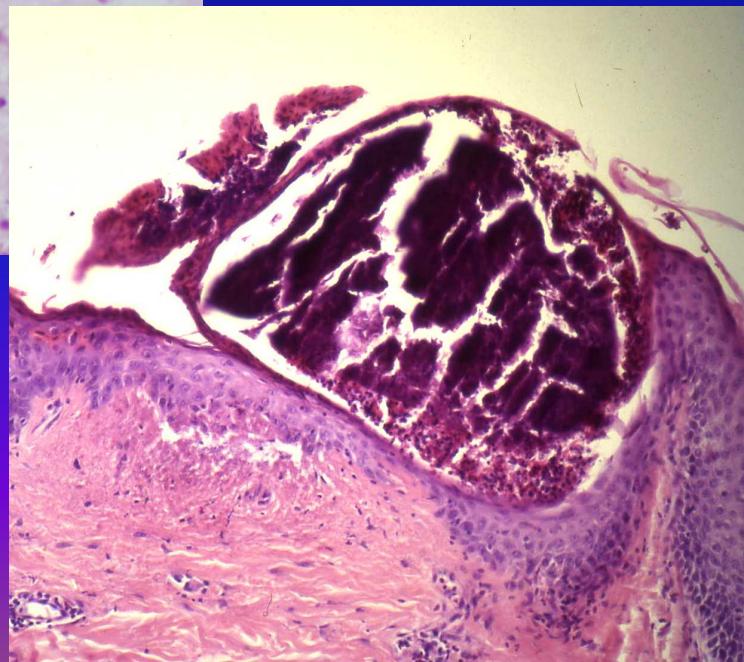
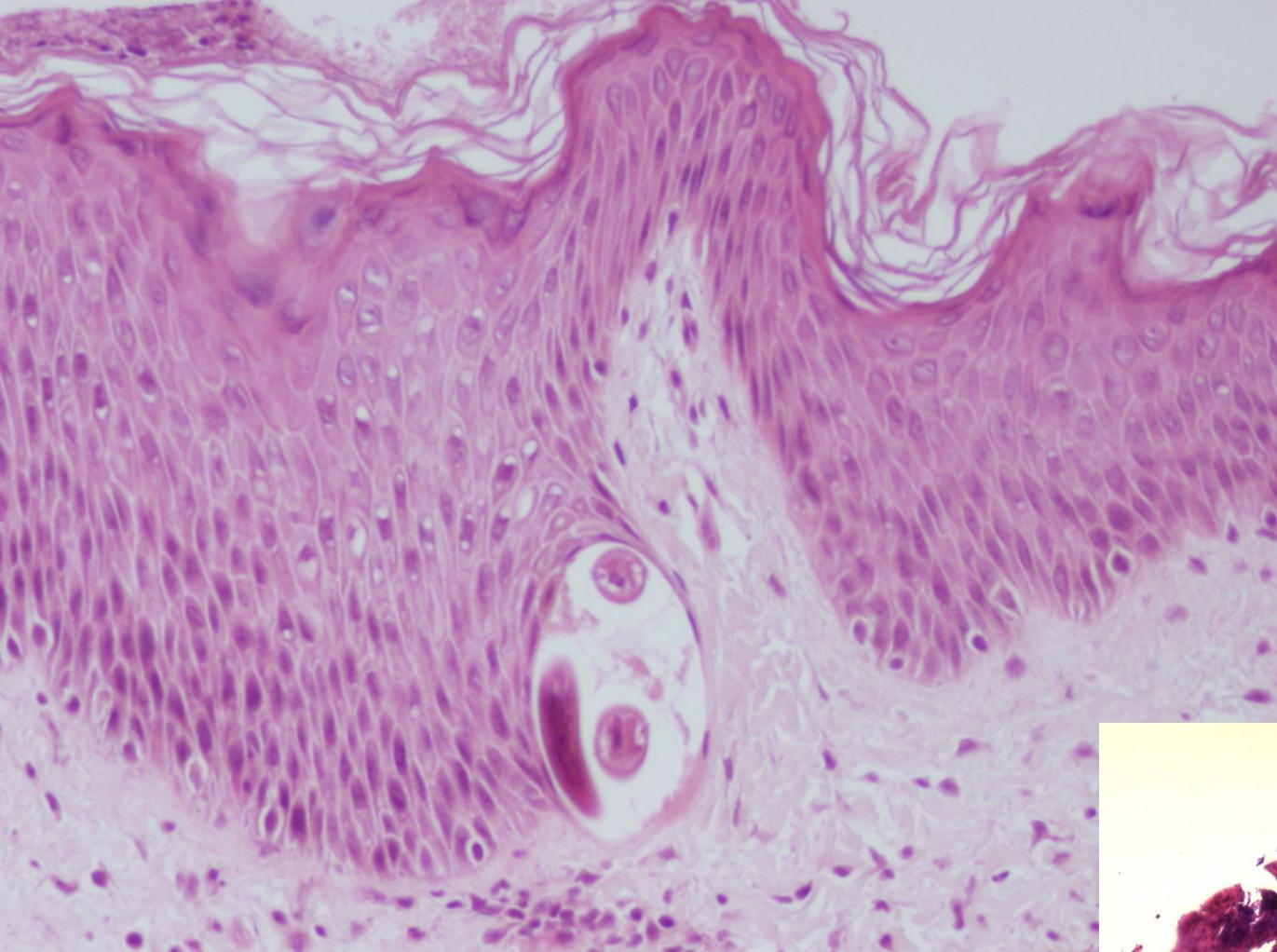
IHC BCG

Ziehl

***Mycobacterium leprae***  
**Lepromatous leprosy**





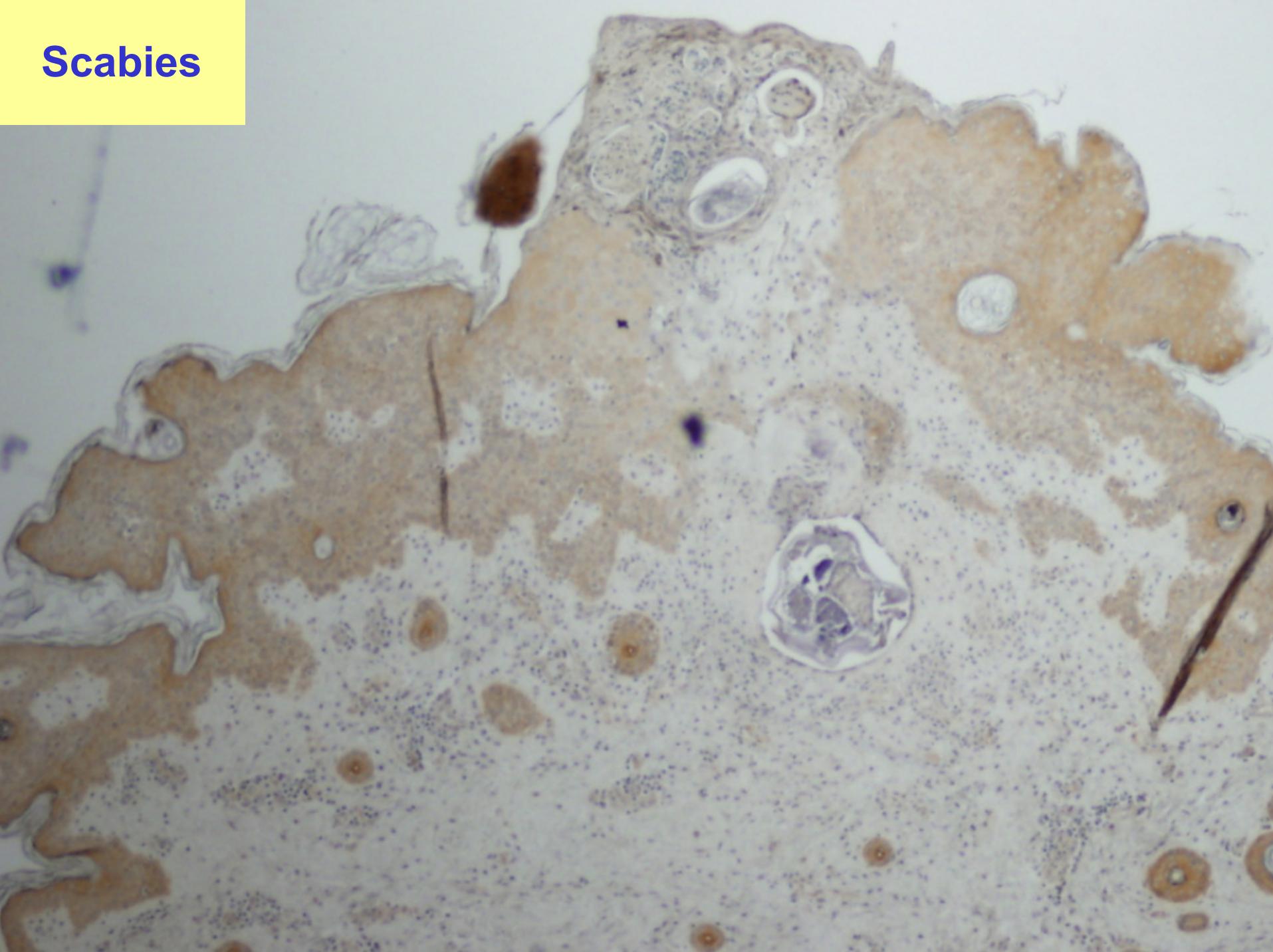


Ankylostoma (Larva migrans)



- 2-year-old girl
- Papules in the axillary folds and in the genital area
- Clinical diagnosis : Langerhans cell histiocytosis?

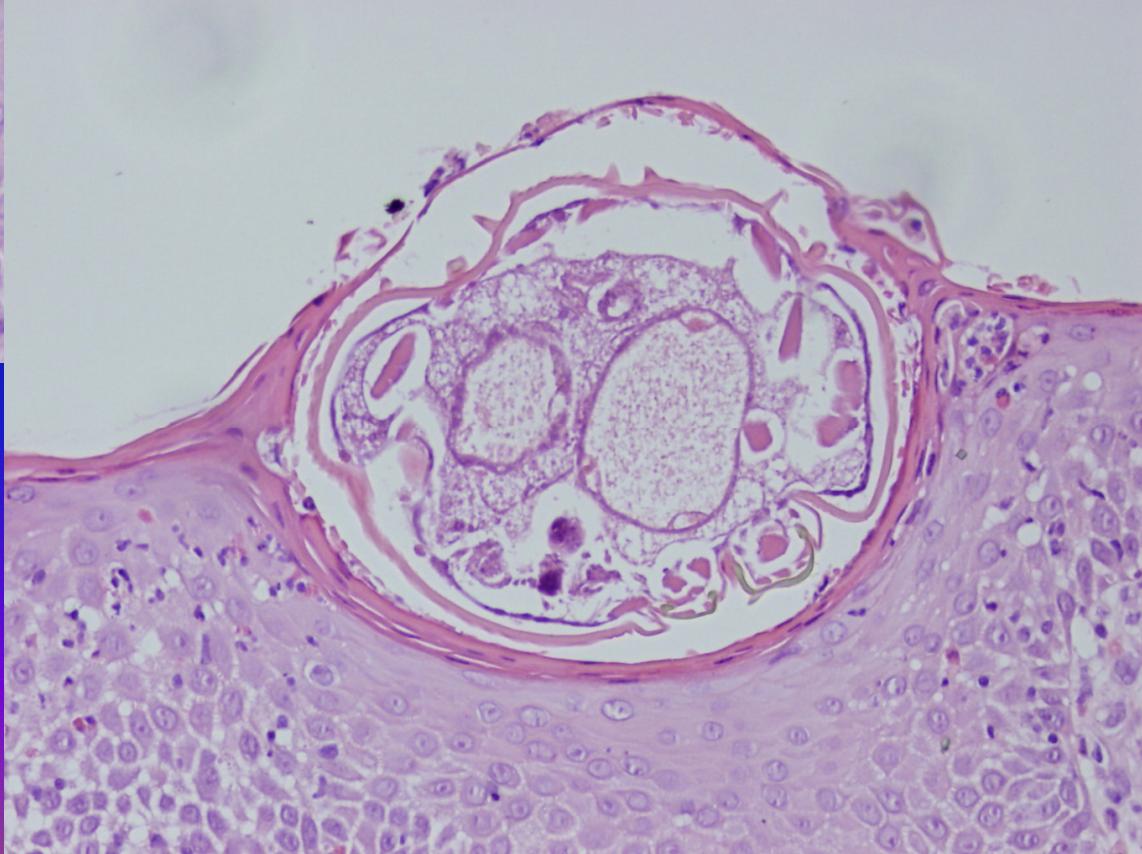
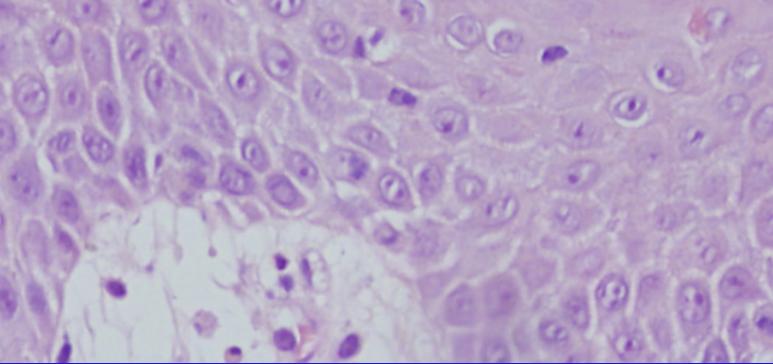
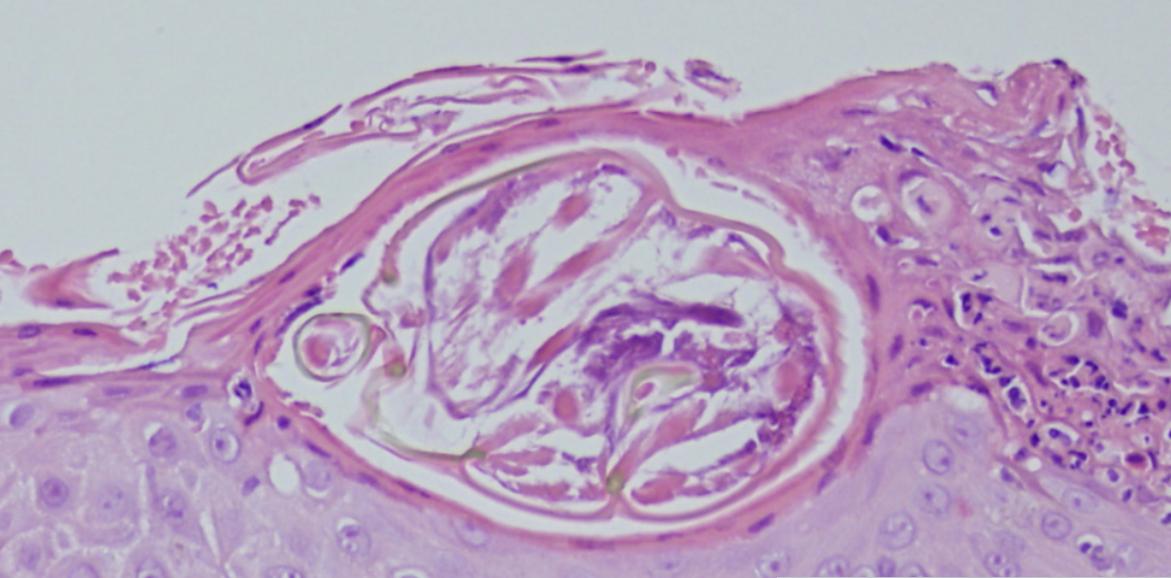
# Scabies





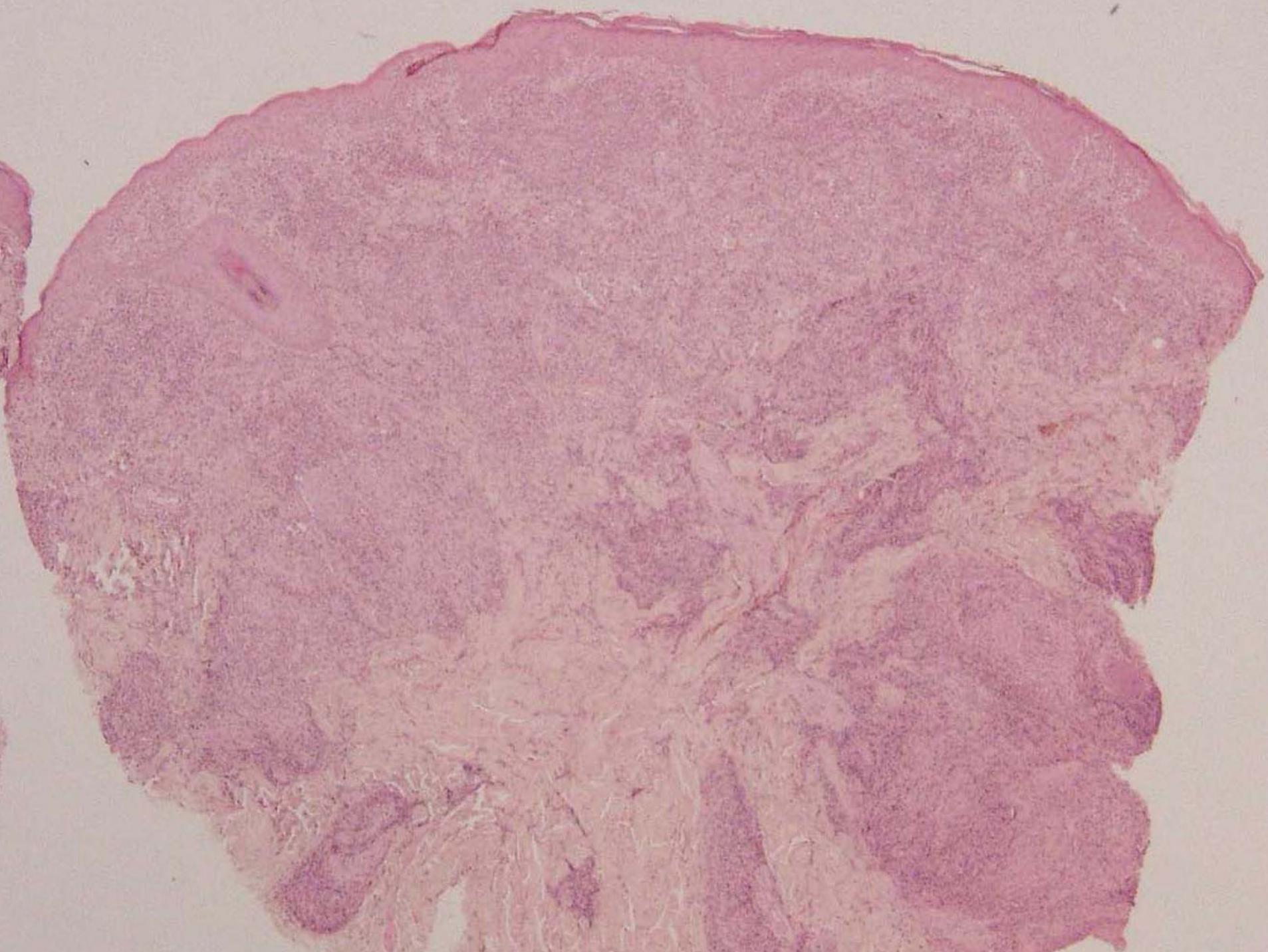


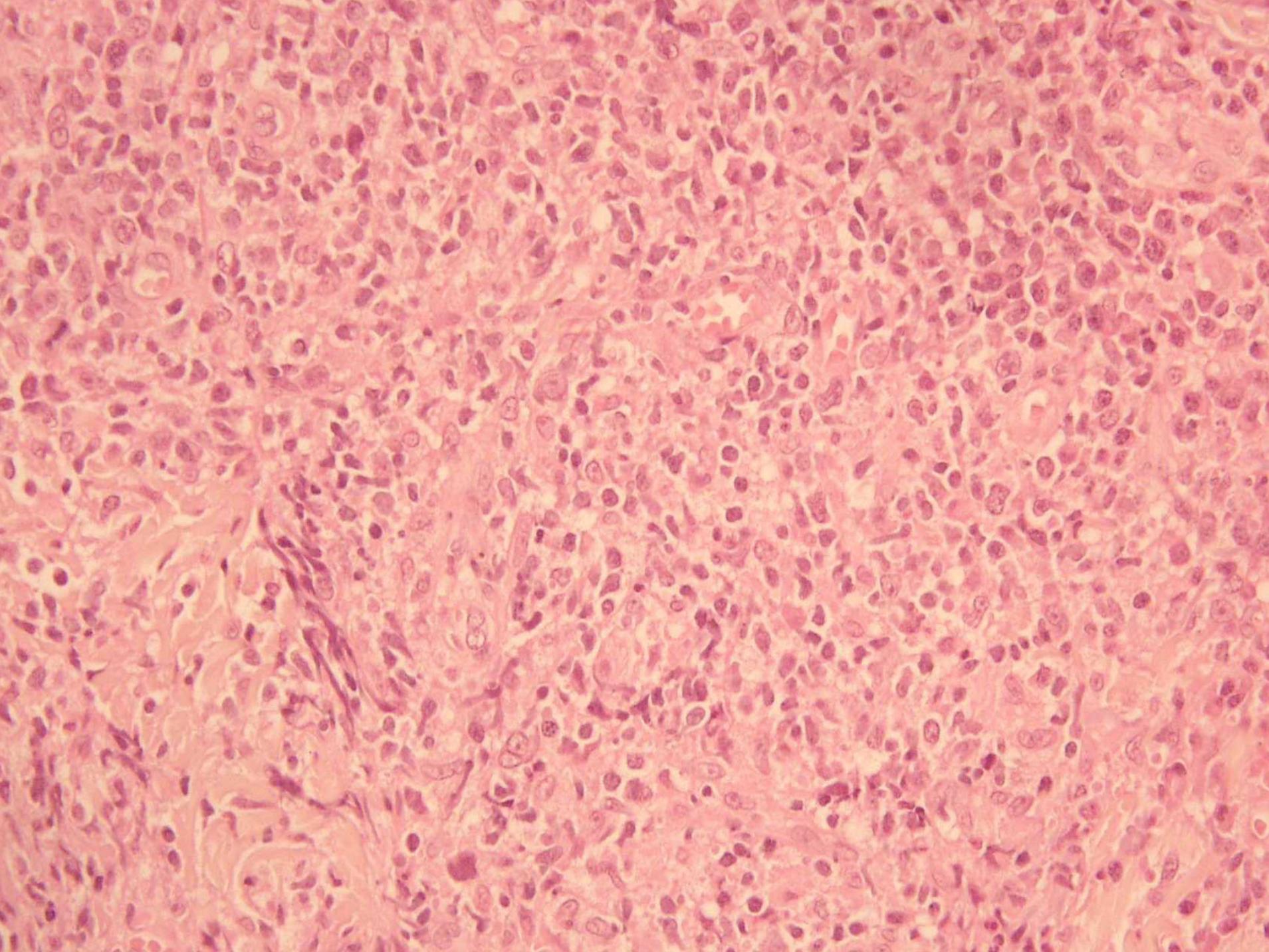


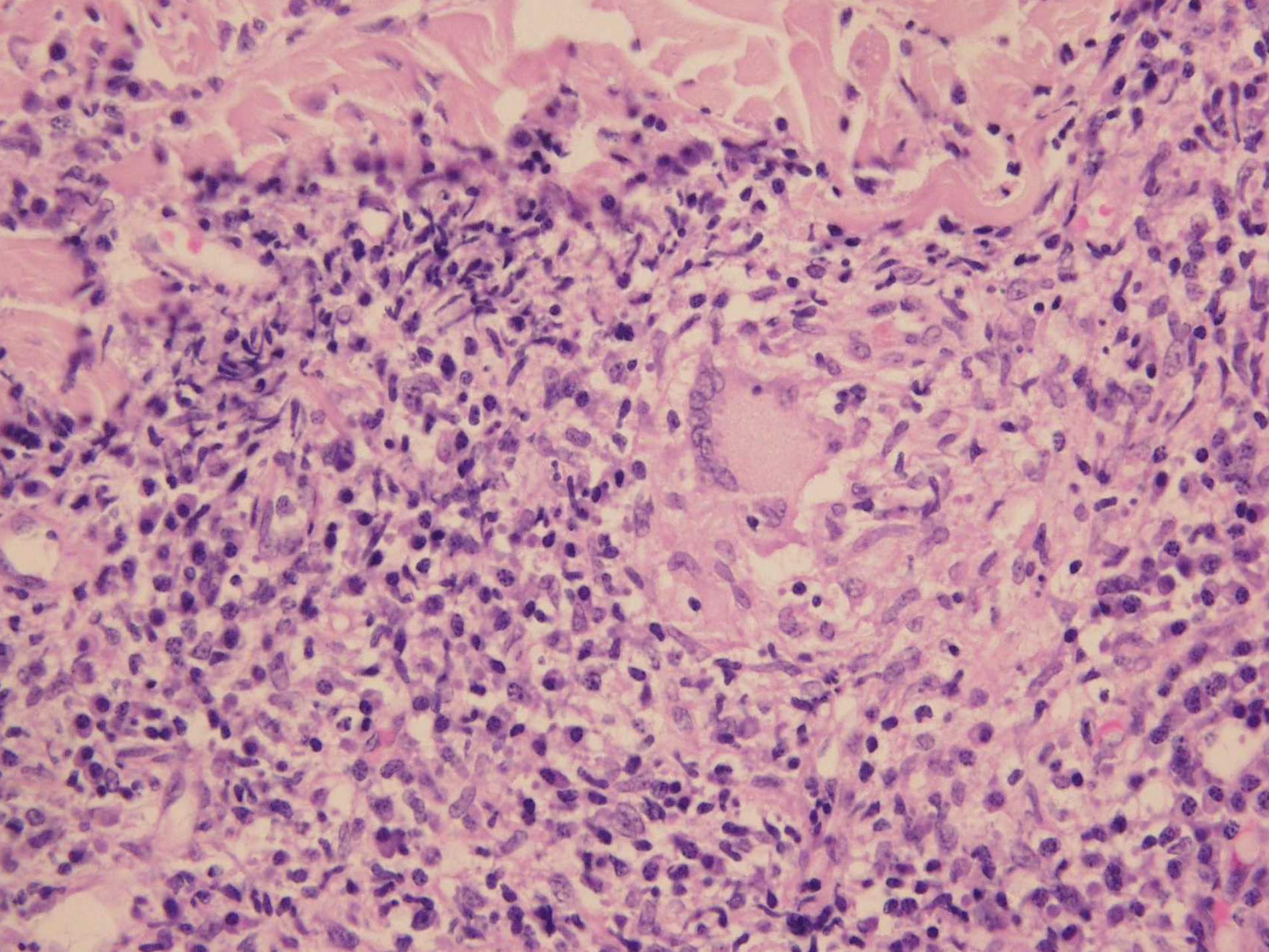


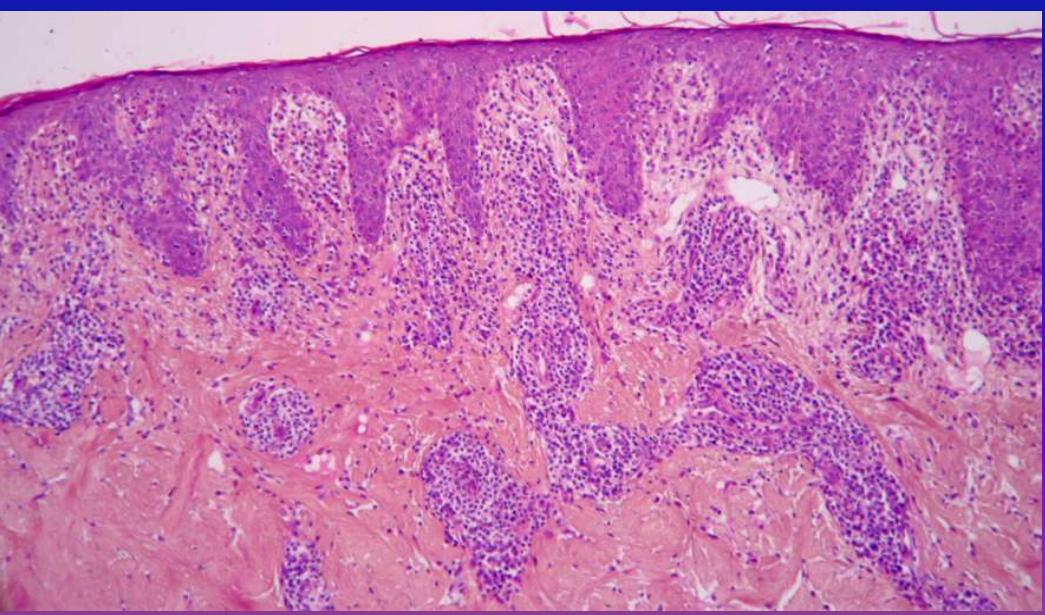
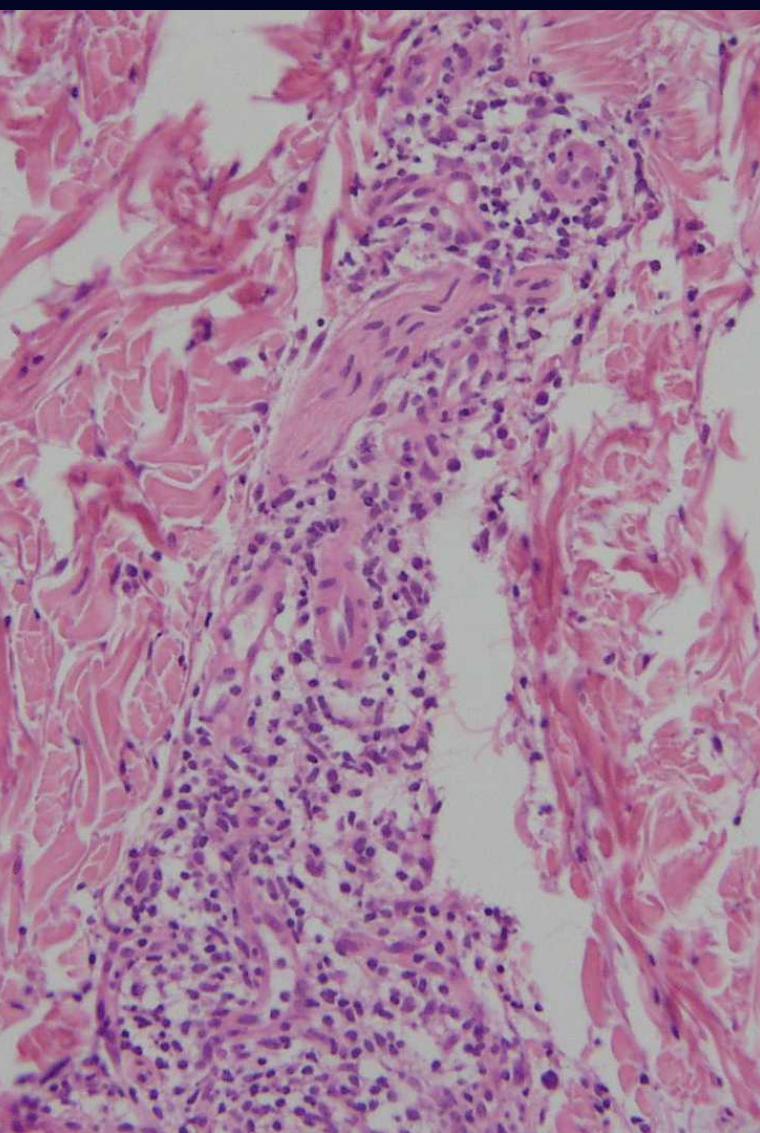
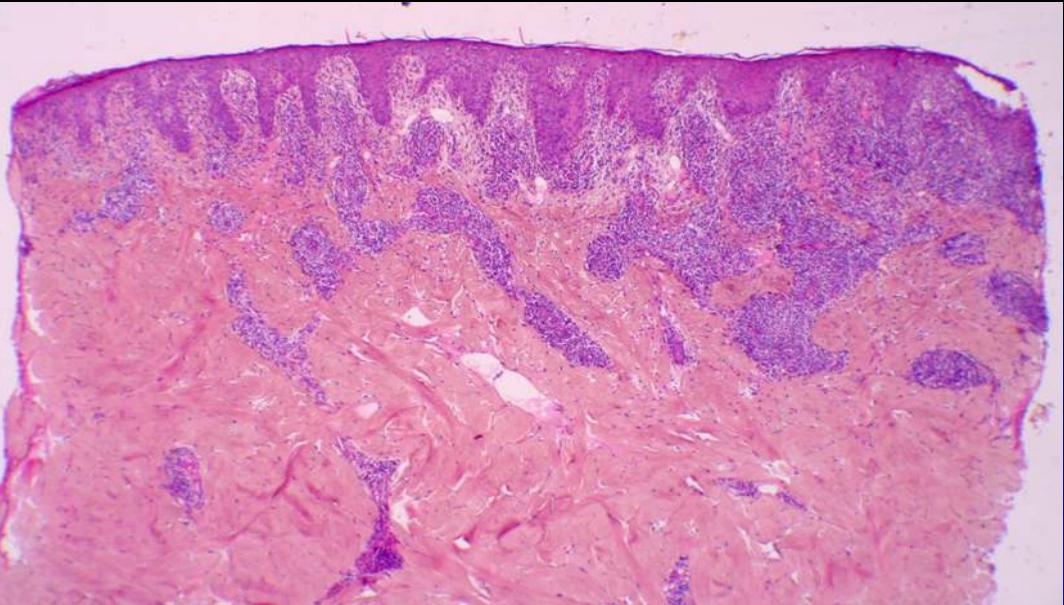


35 year-old female  
Maculo-papular eruption  
Weakness + weight loss  
Adenopathy

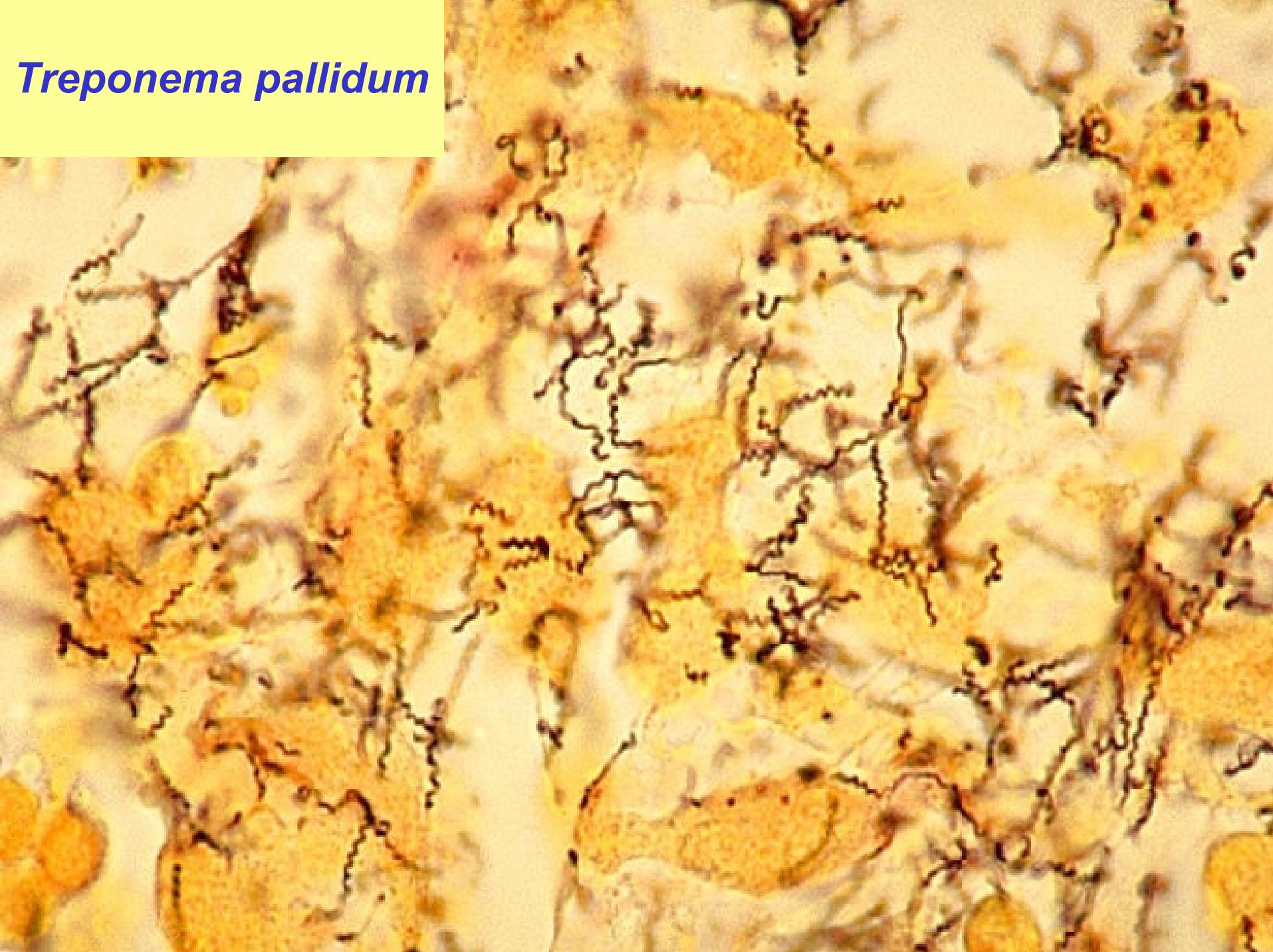








*Treponema pallidum*

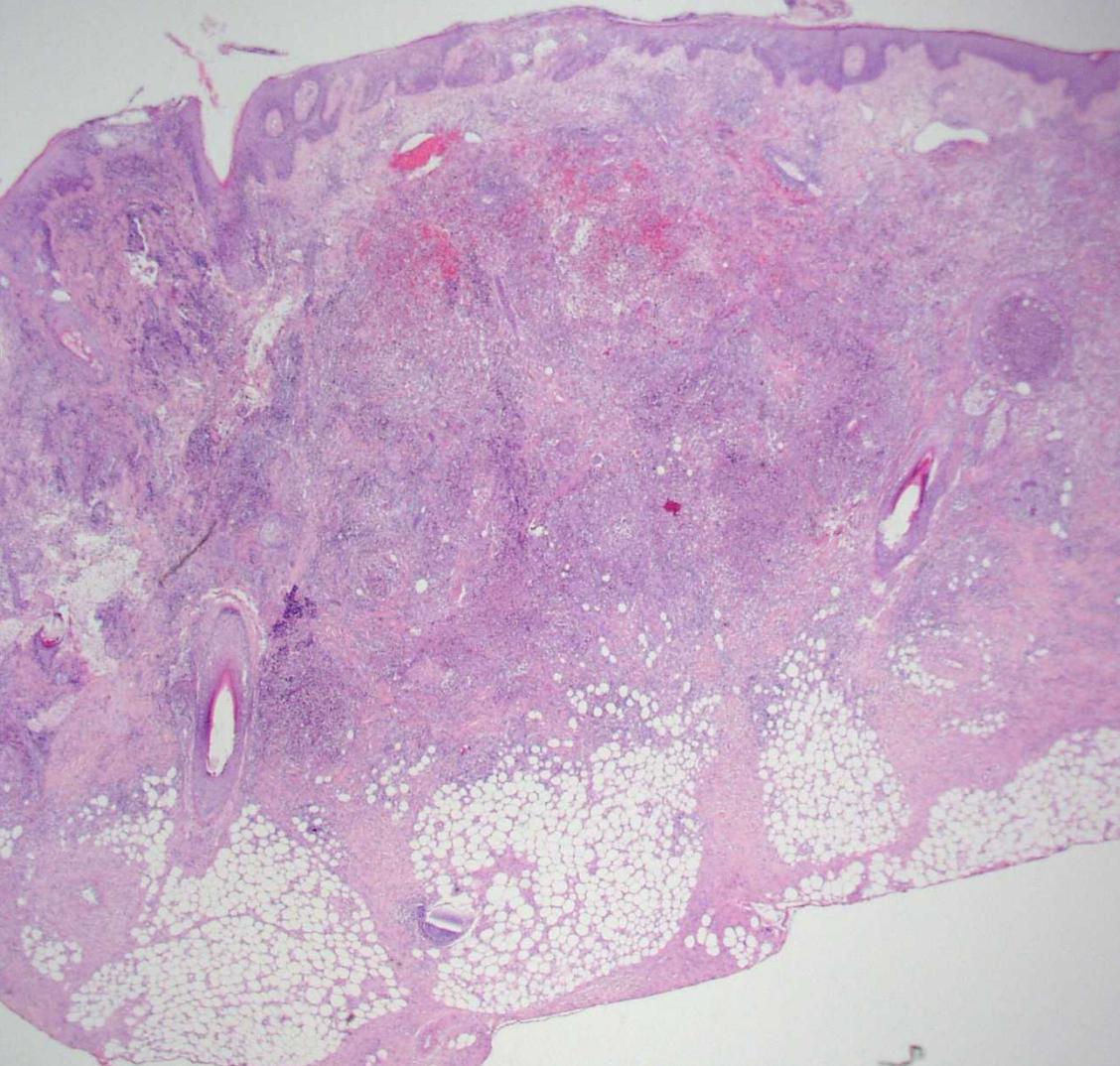
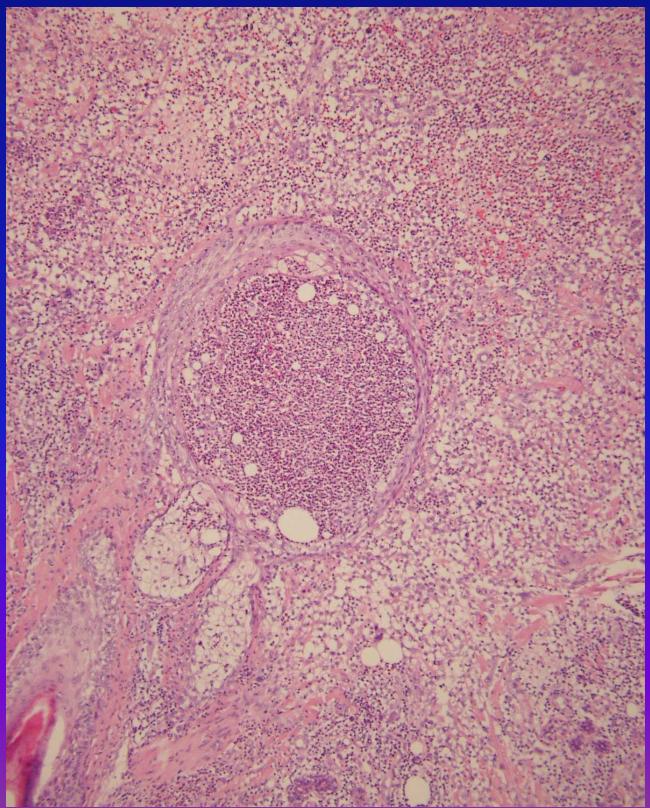


# Ulcerative lesions



↑ Coll C. Arroyo,  
Columbia



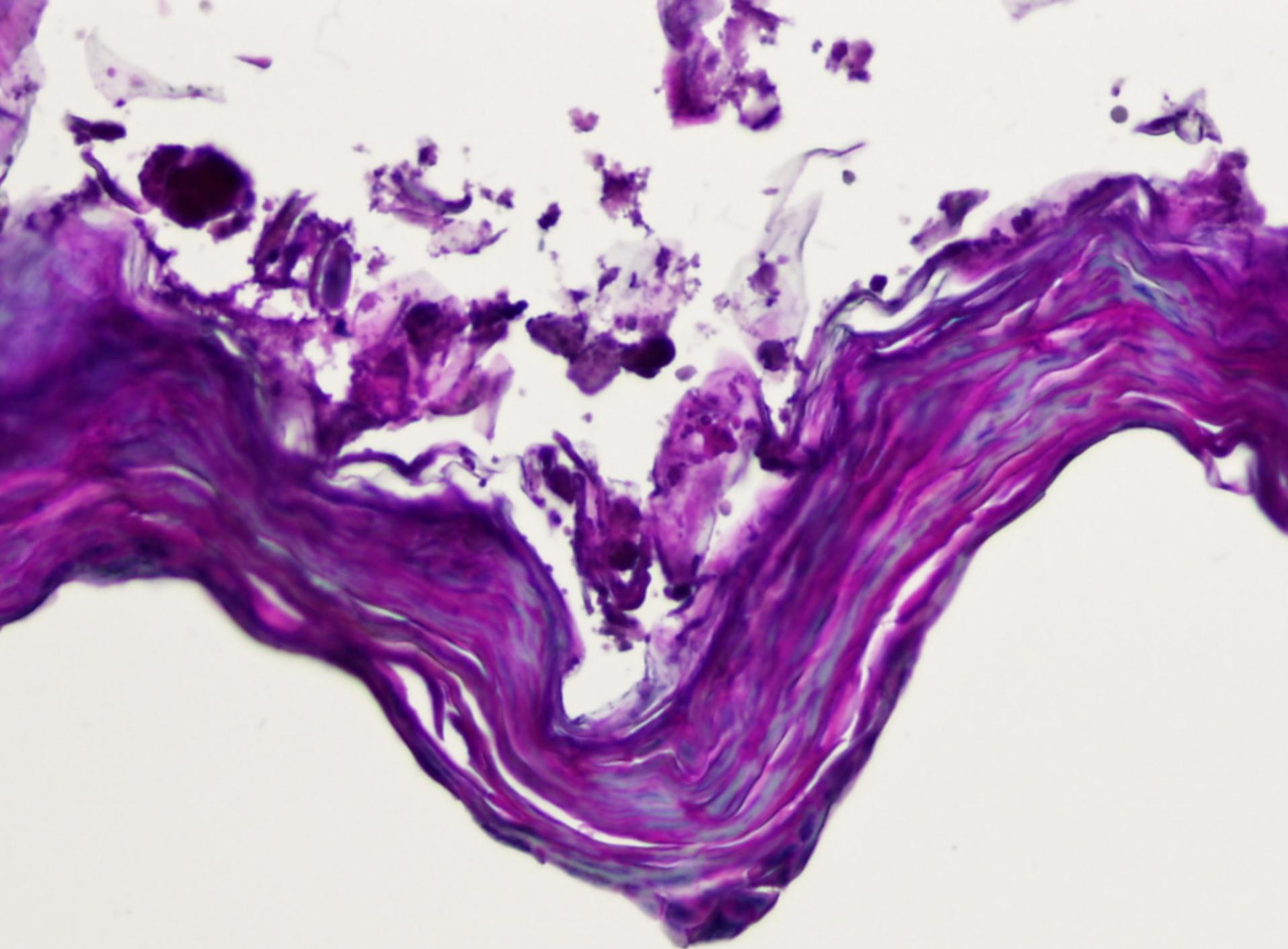


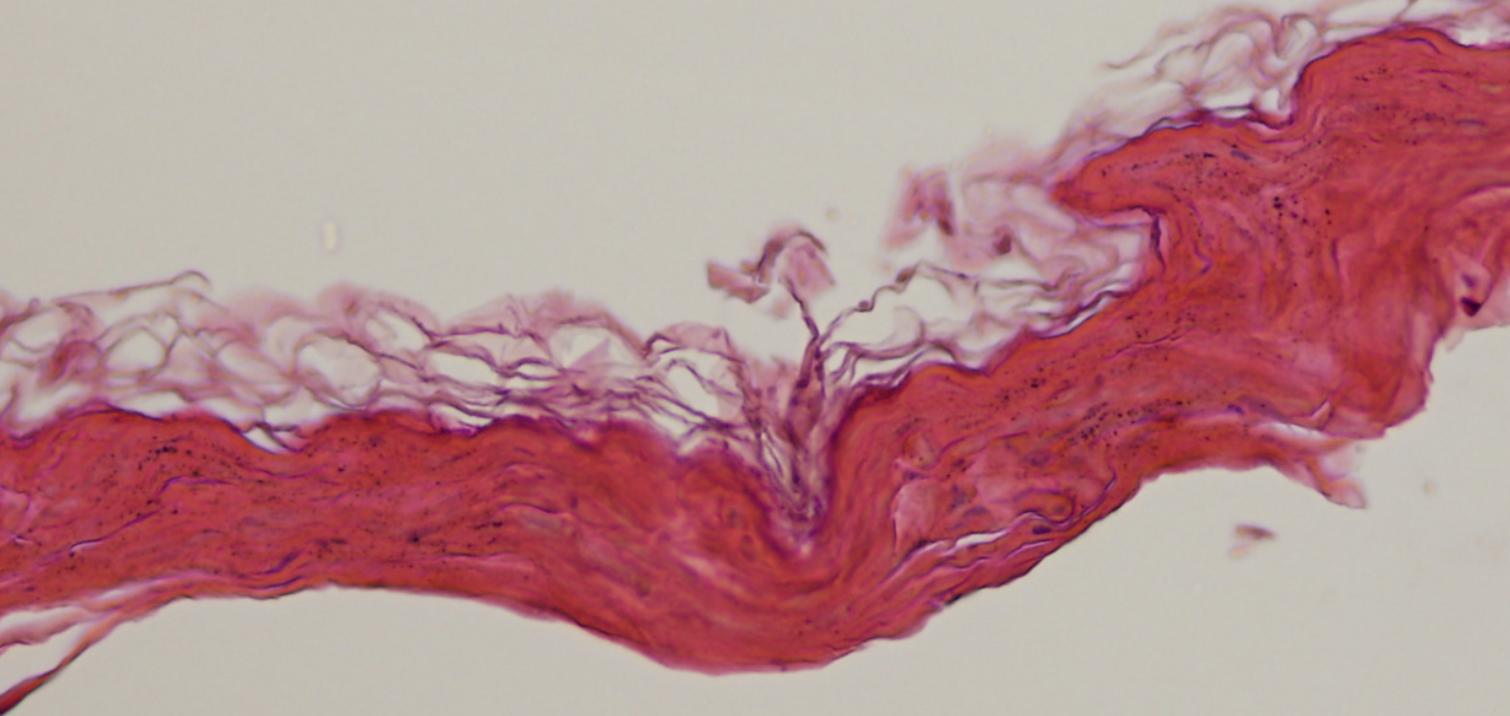
**Pyoderma gangrenosum**

# Blistering Lesions

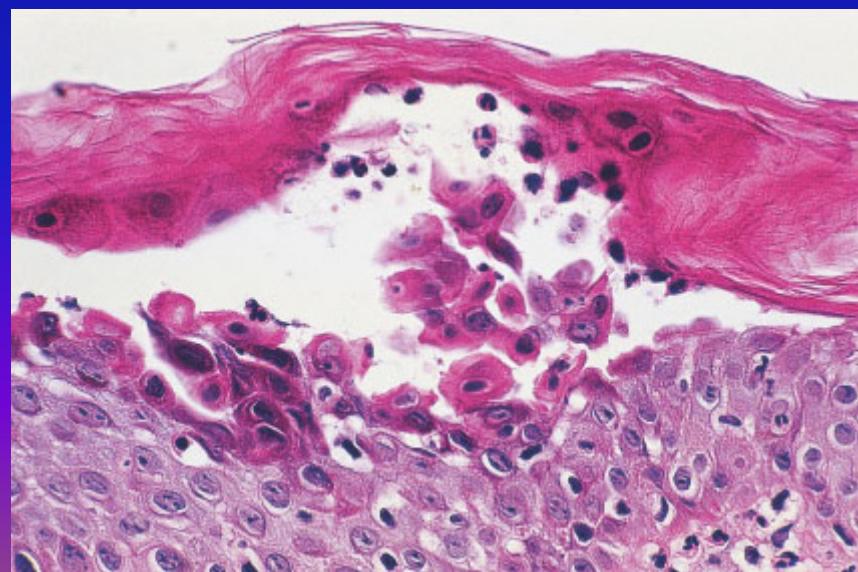




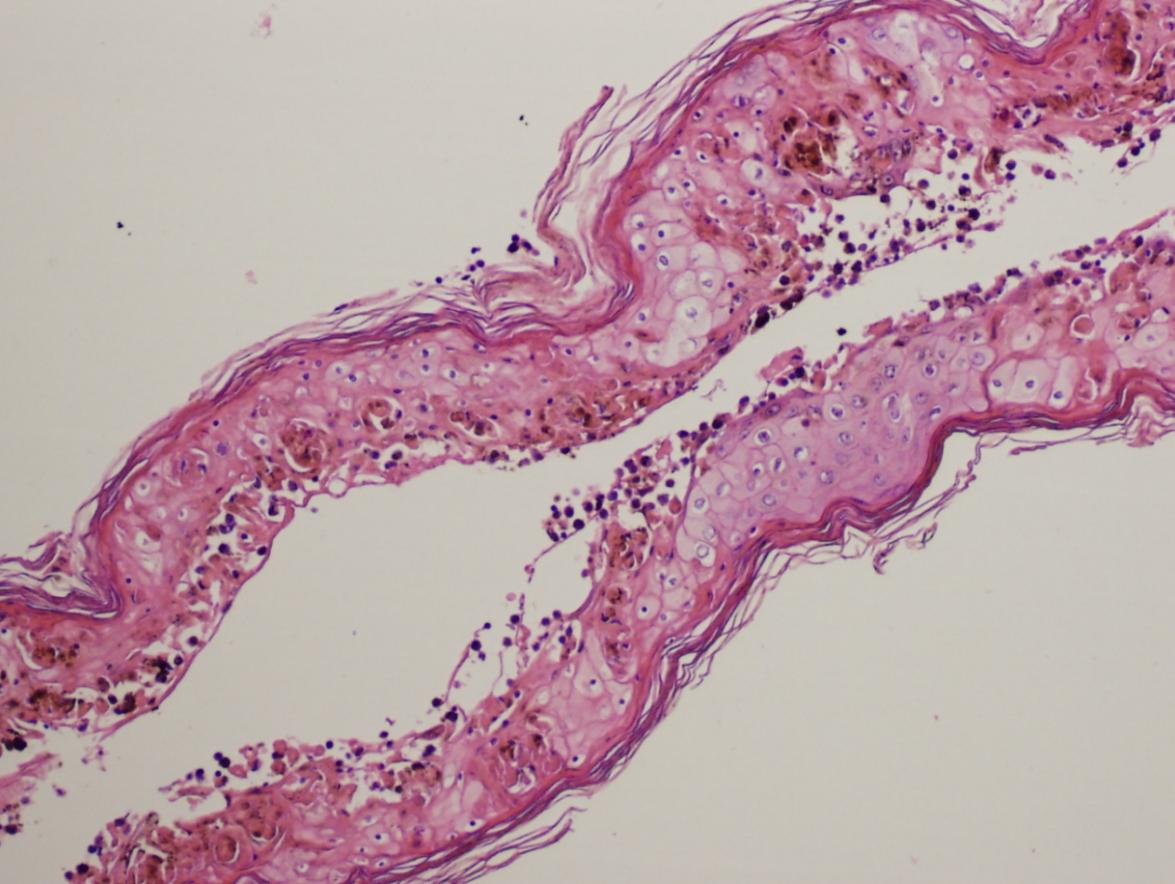




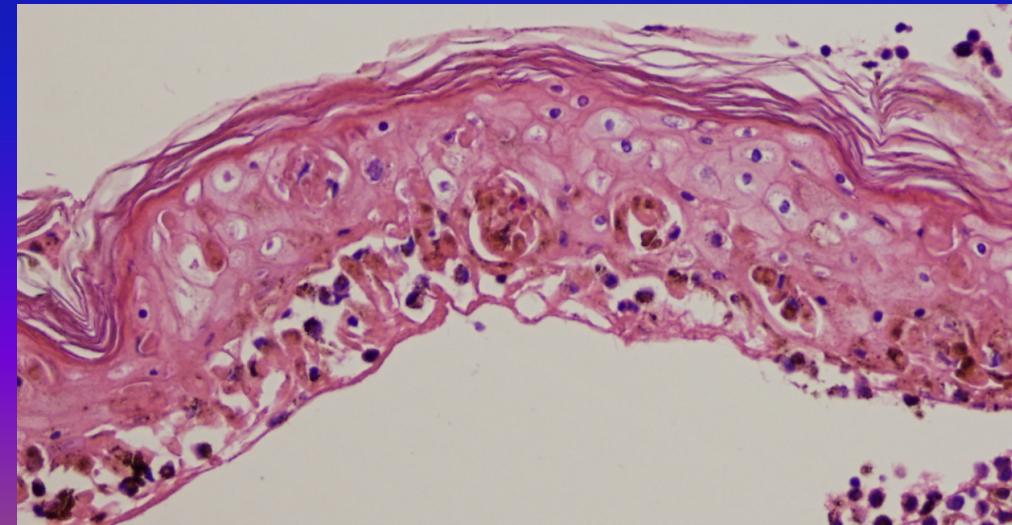
*Staphylococcus aureus*  
**SSSS**

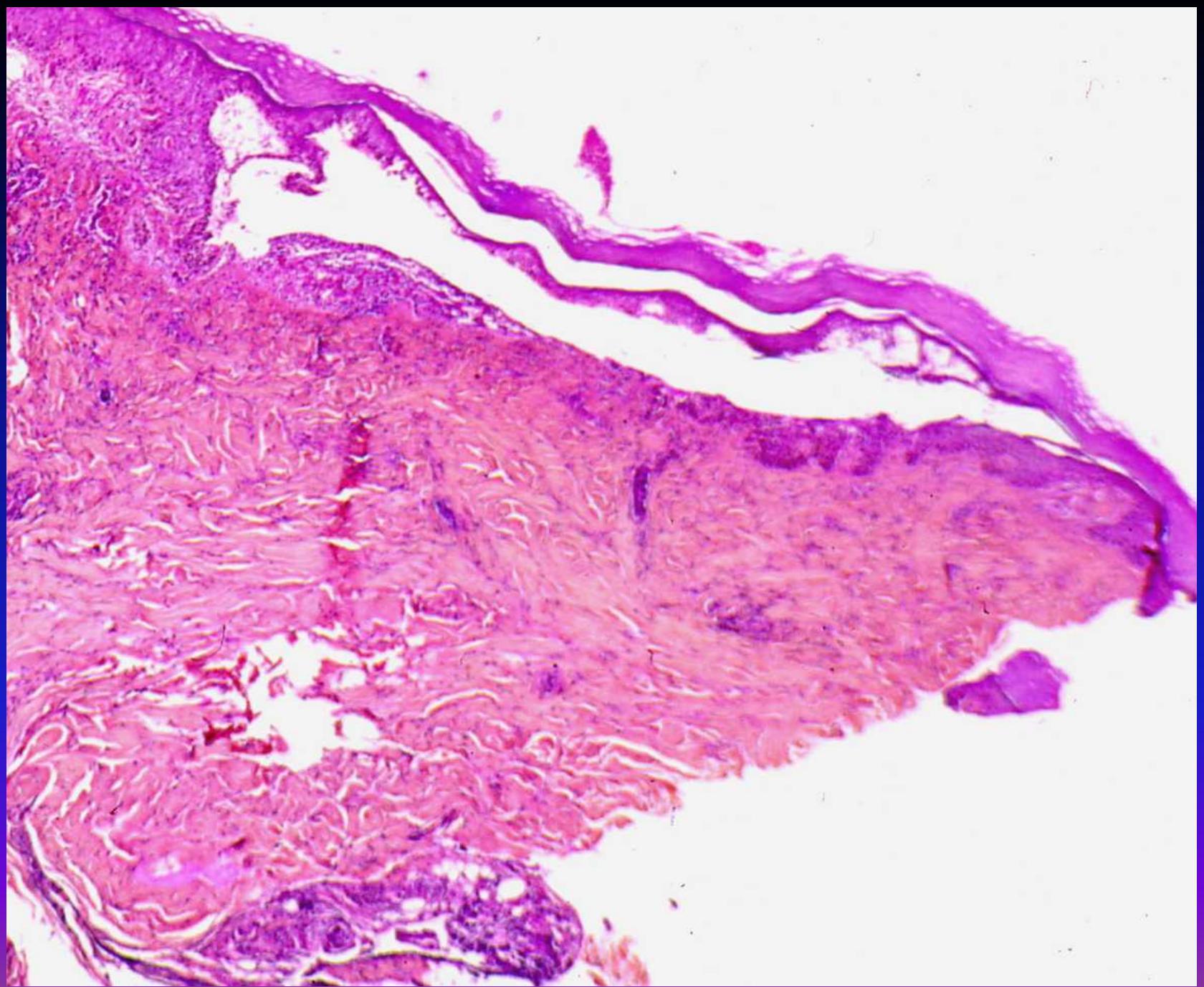


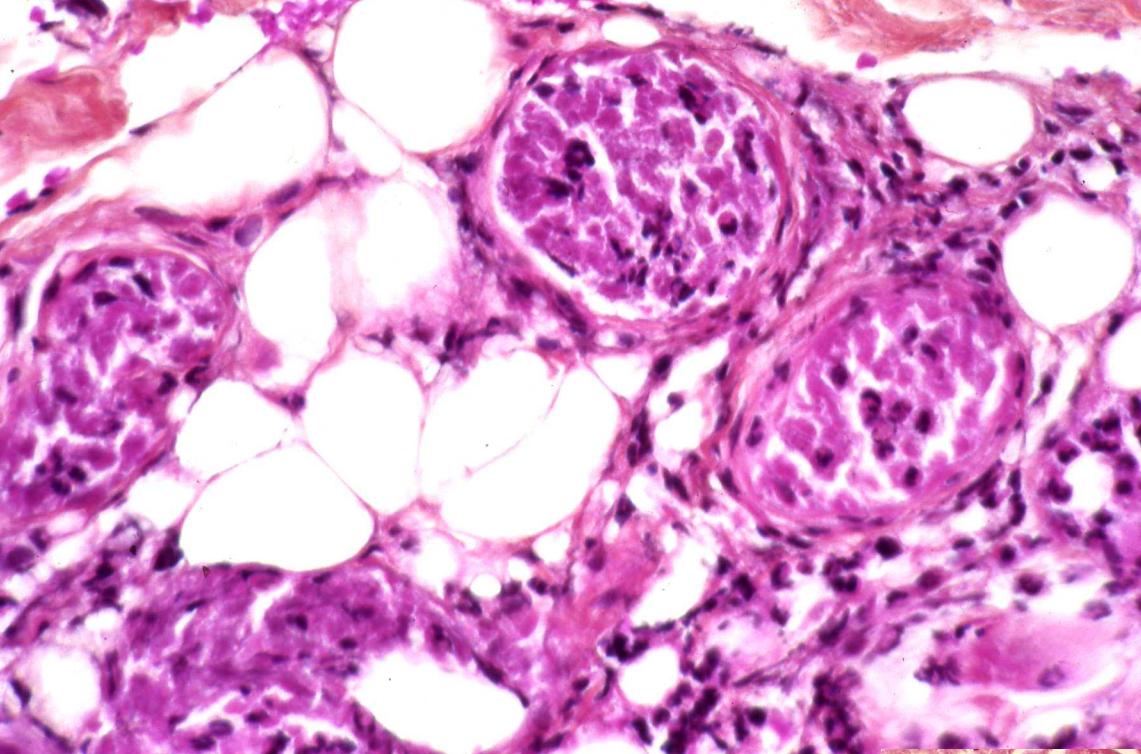




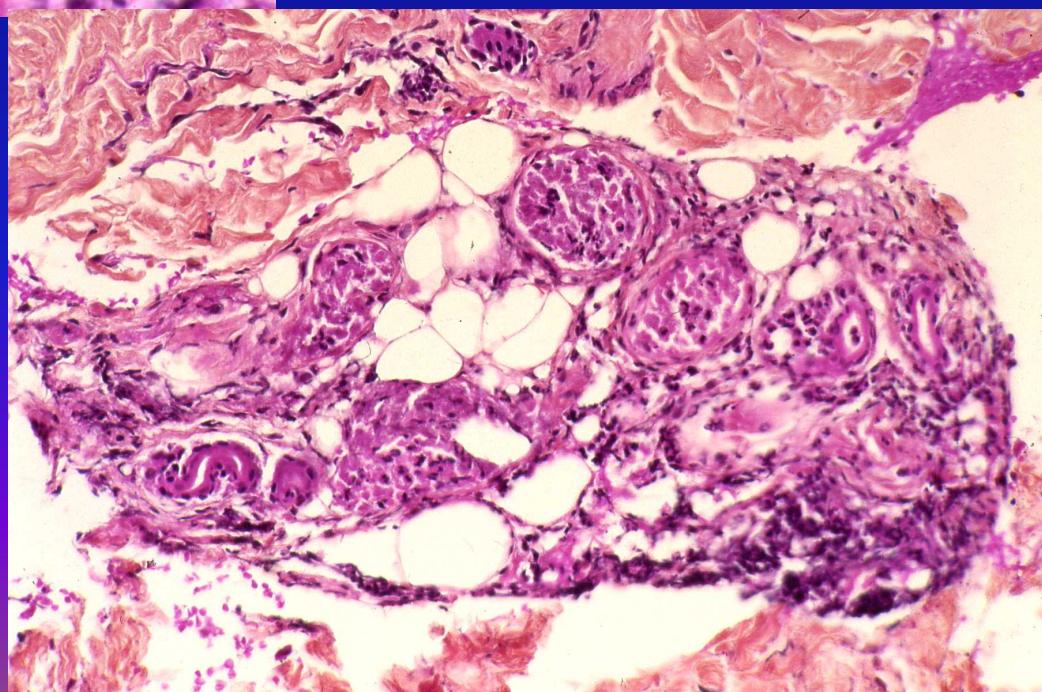
Toxic epidermal necrolysis  
(TEN)



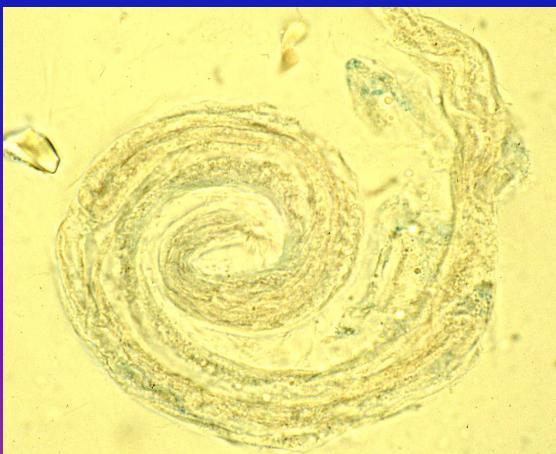




Septic emboli

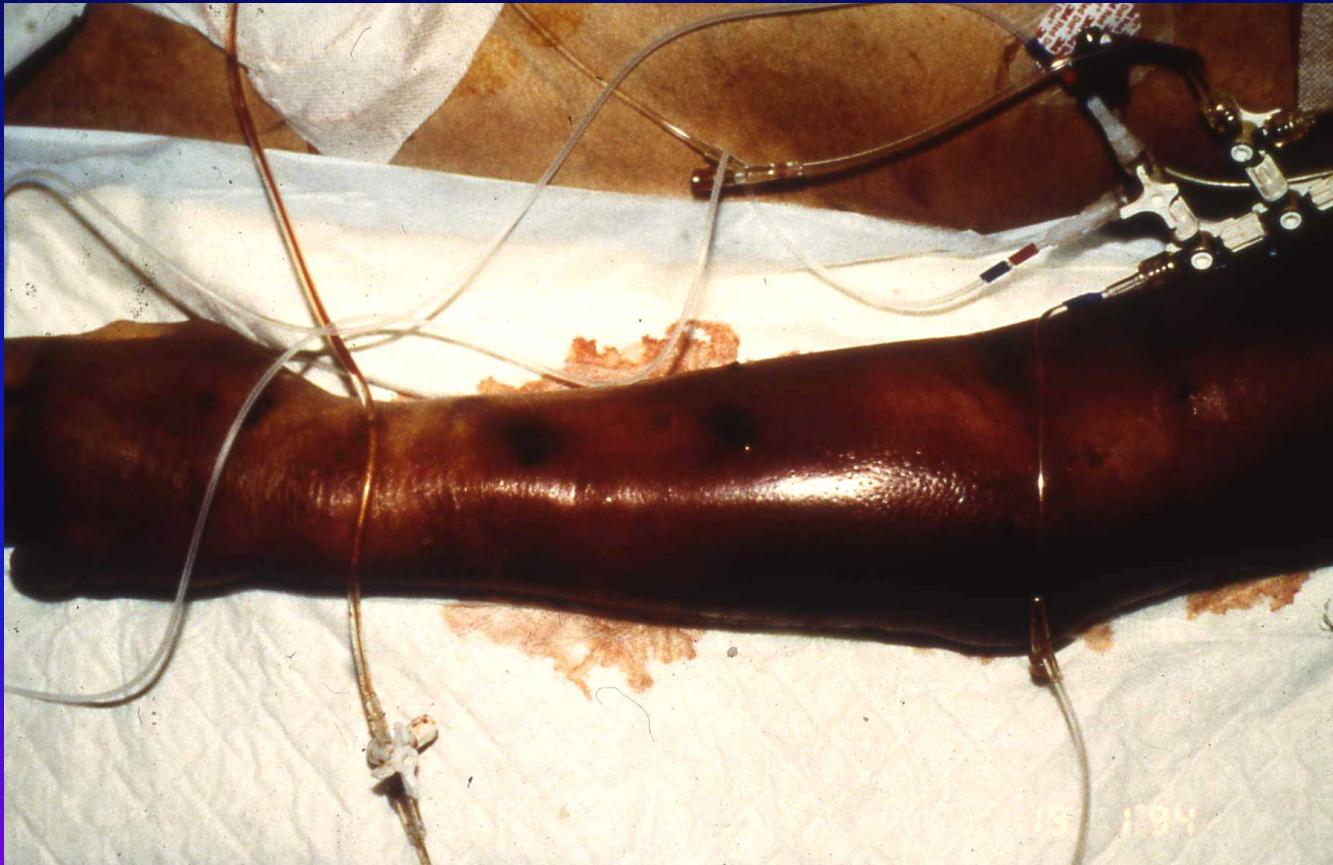


Coll Dr Keystone, Canada



**Ankylostoma (Larva migrans)**

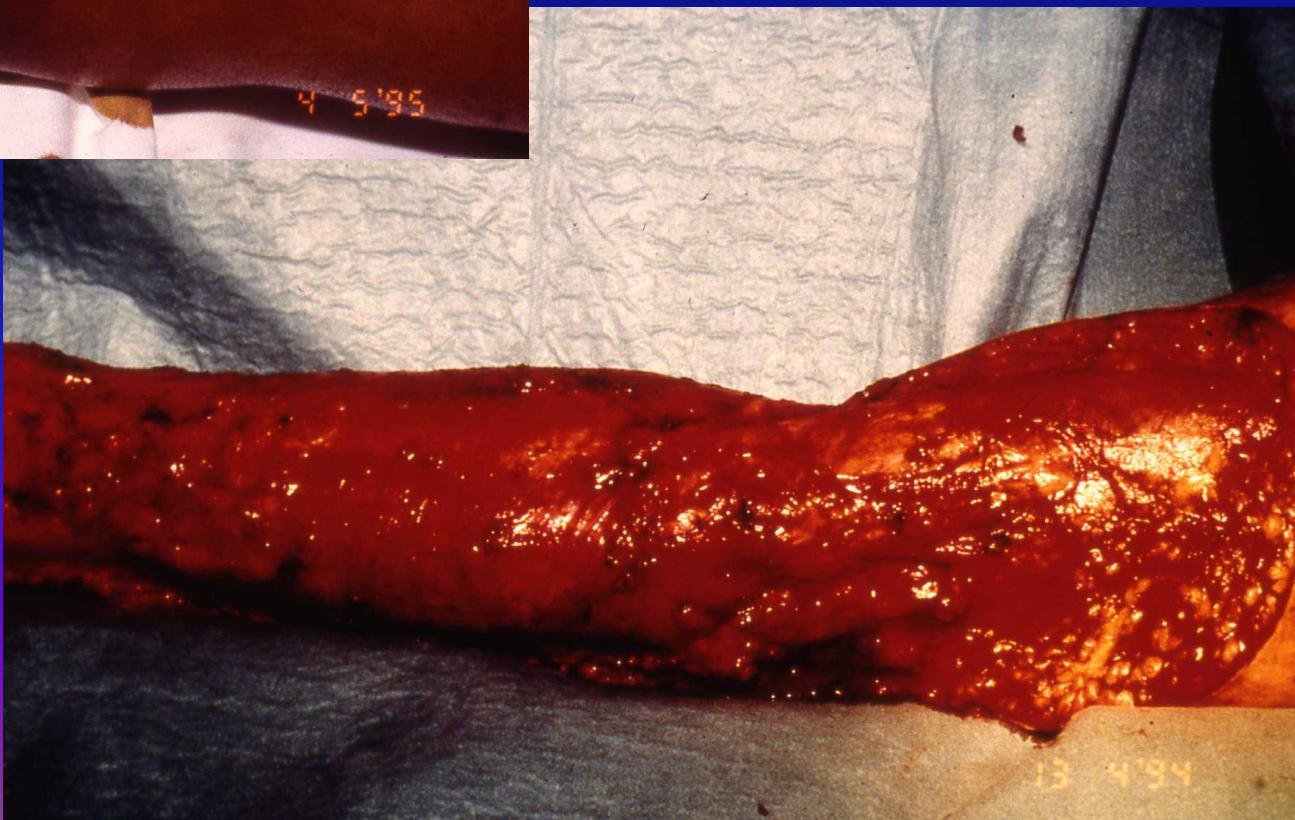
# Fasciitis



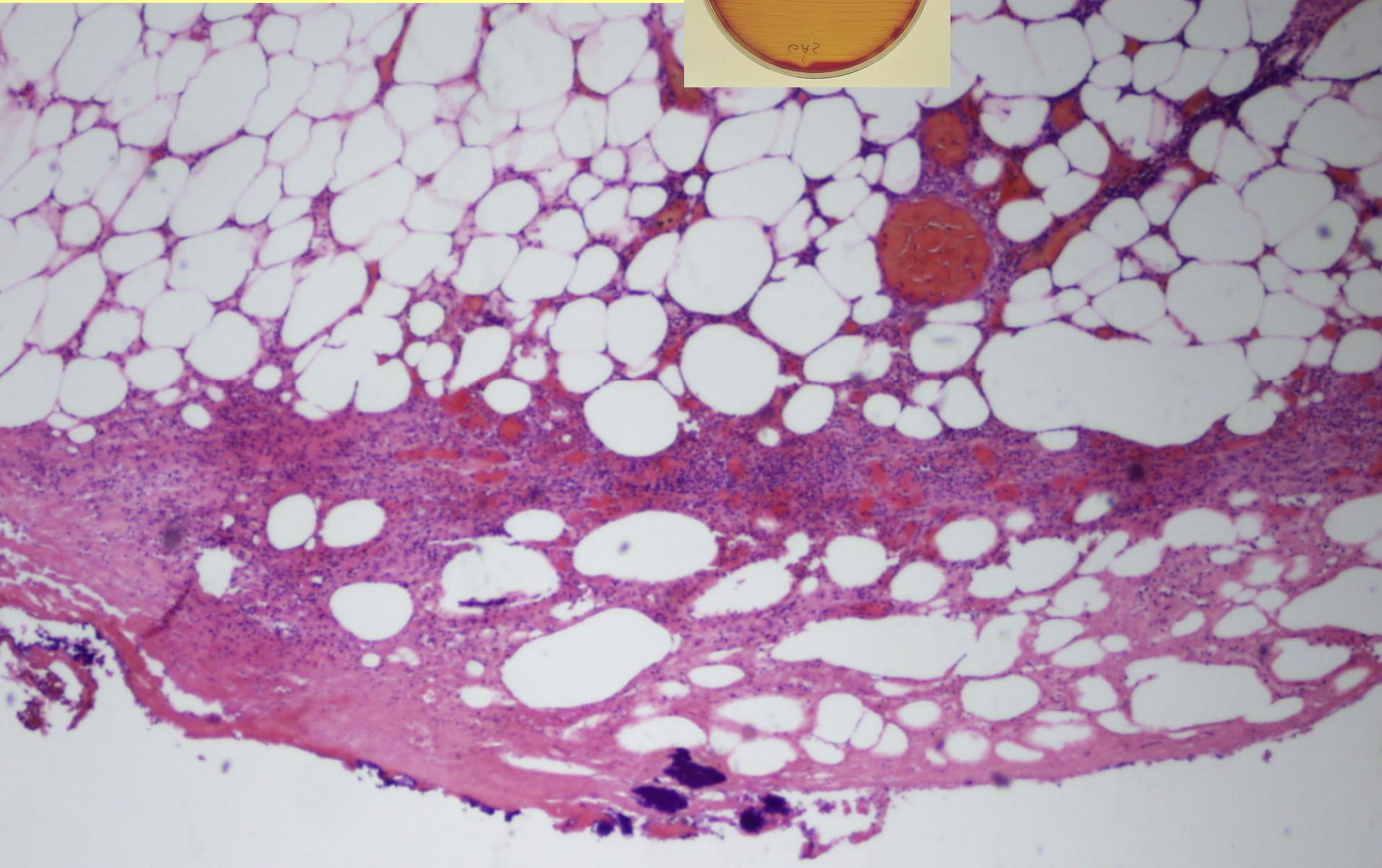
66.4 EI

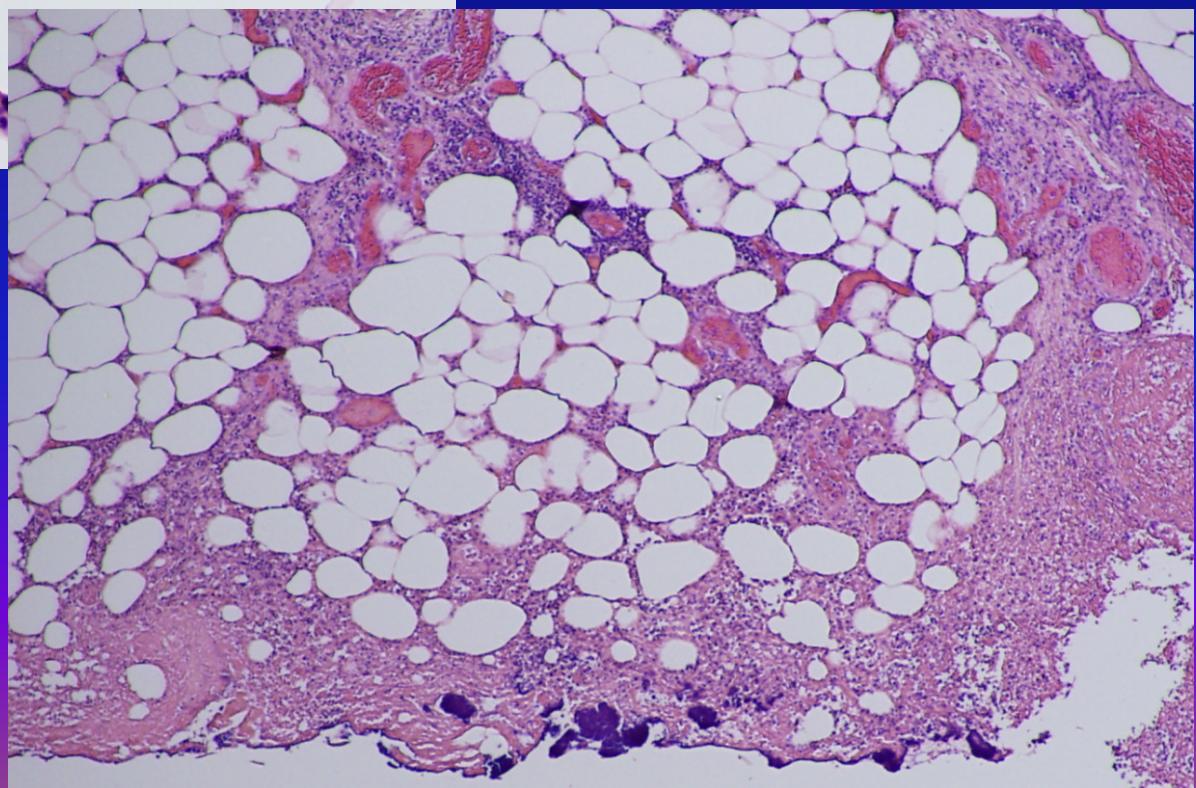
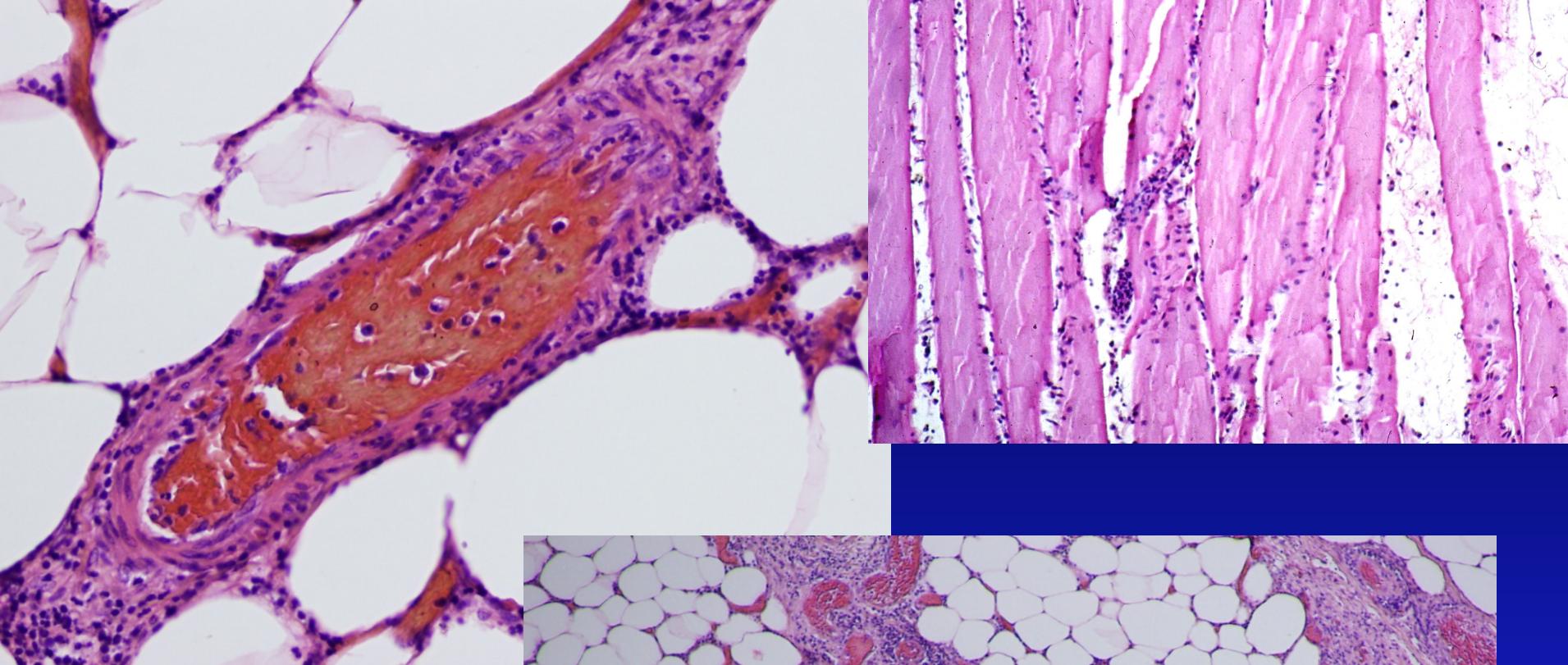


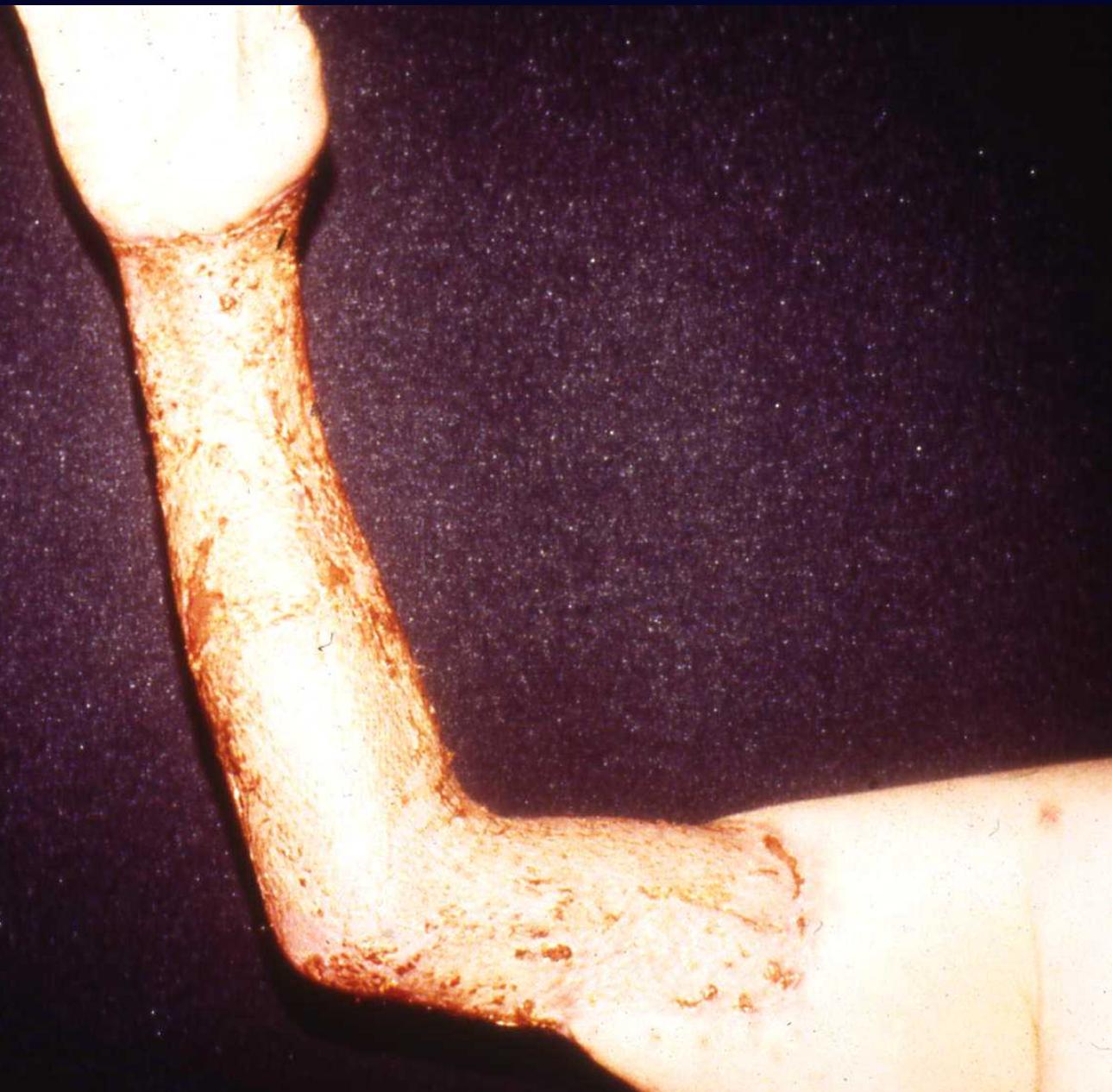
4595



# *Streptococcus pyogenes*

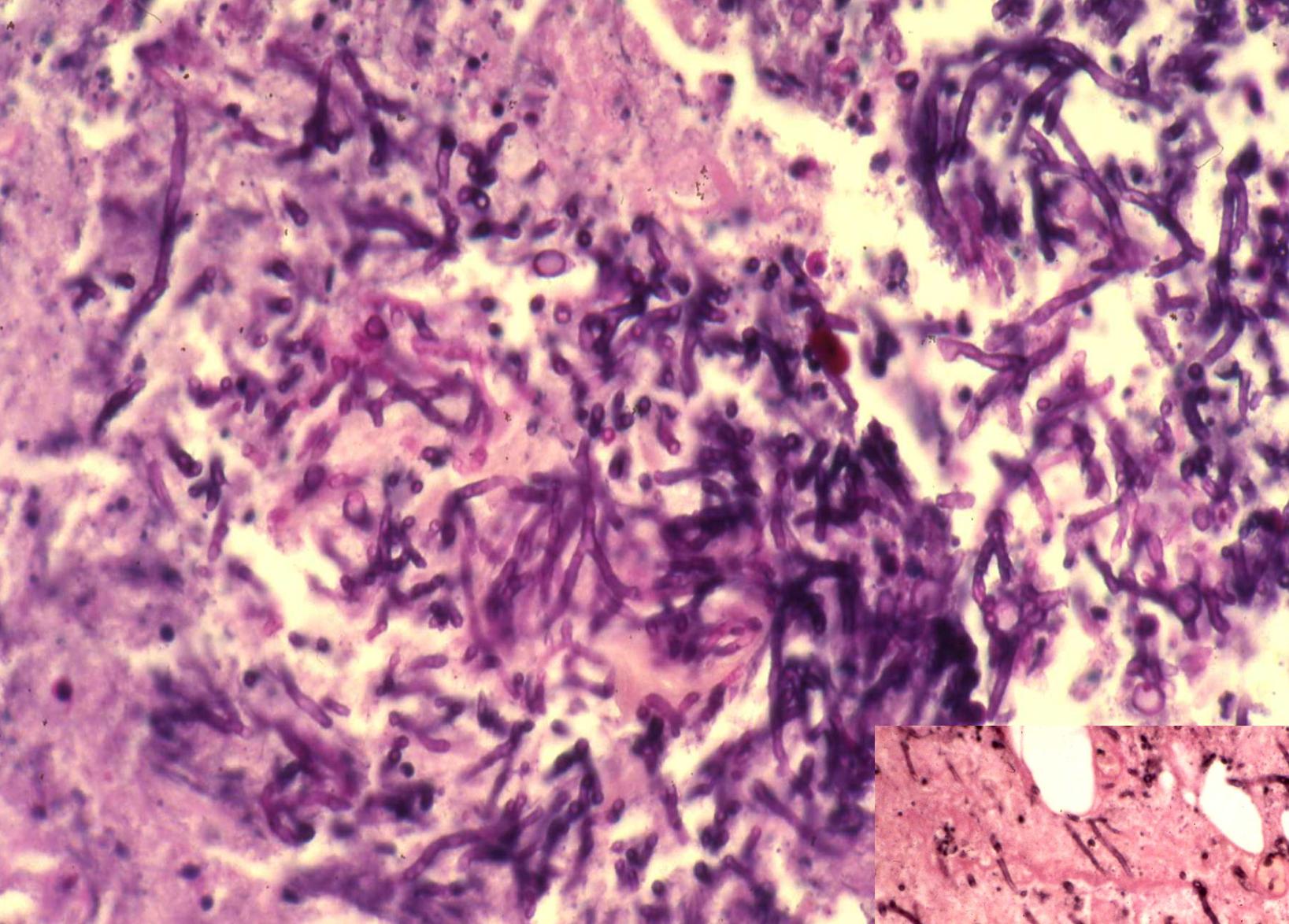


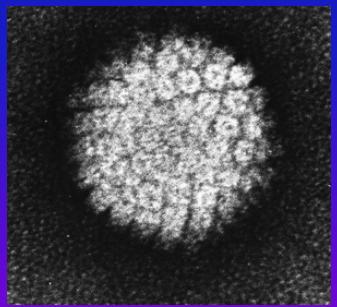
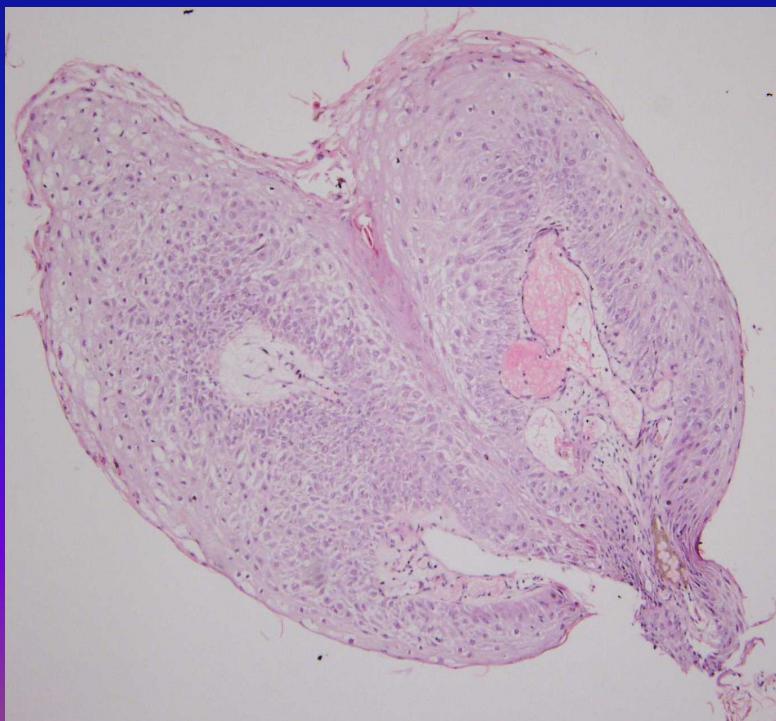
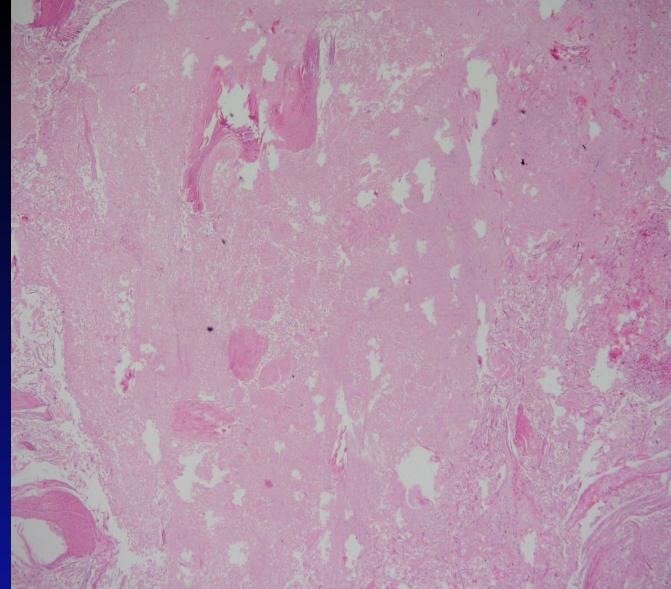
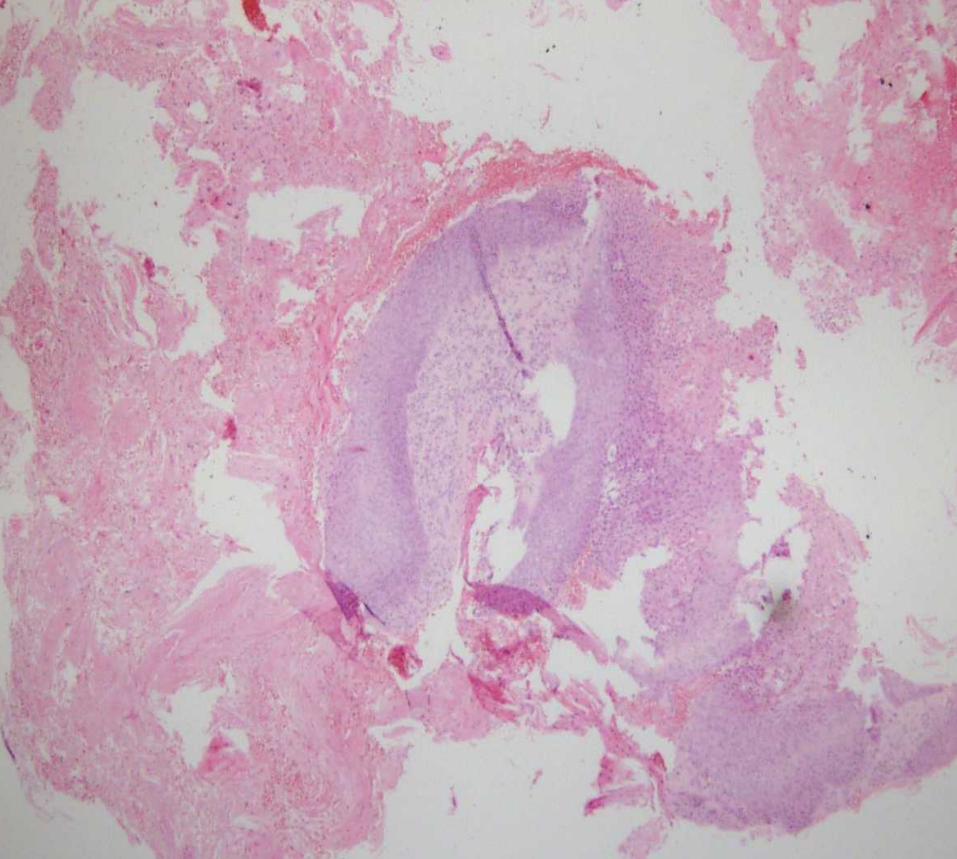




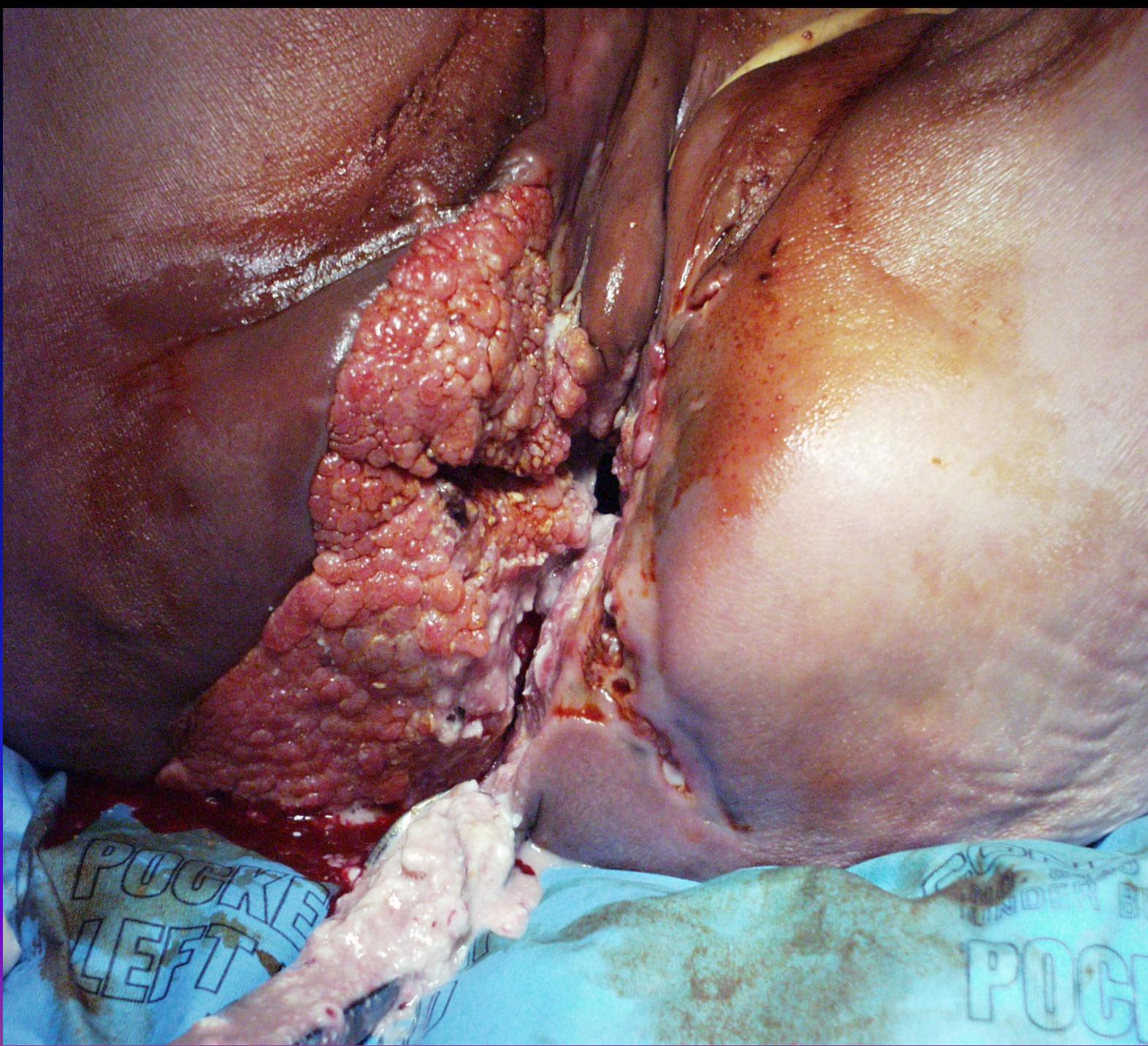


**Aspergillus**





**HPV low grade**



# Conclusion

- Interest of the dermatopathology in the diagnosis of some infectious diseases
- Biopsy including subcutaneous fat
- Ulcerations: biopsy in the edge
- Blistering lesions: blister roof and biopsy at the periphery
- Frozen sections (fresh tissue)
  - Differential Diagnosis SSSS – TEN
  - Fasciitis : diagnosis and margins evaluation

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