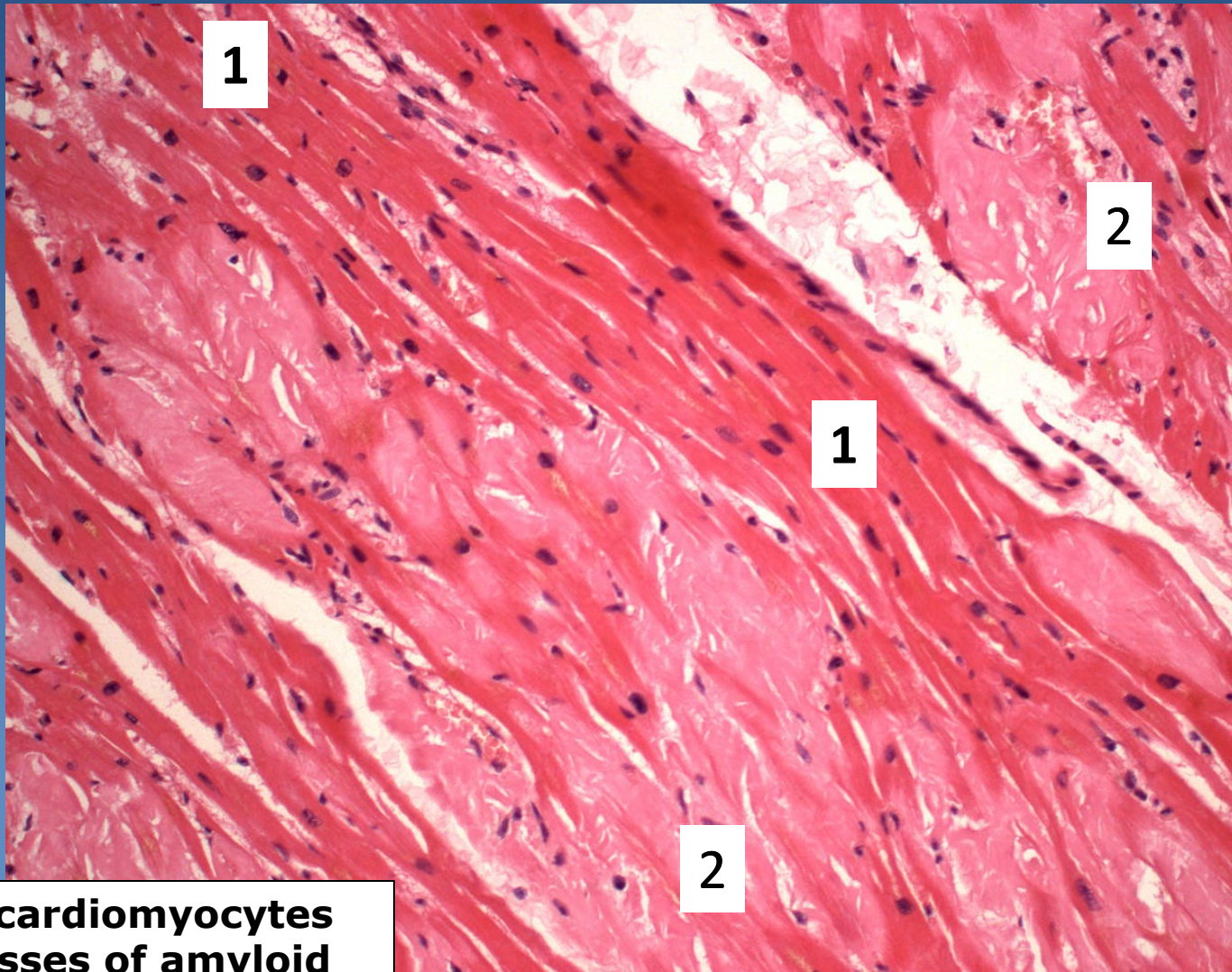
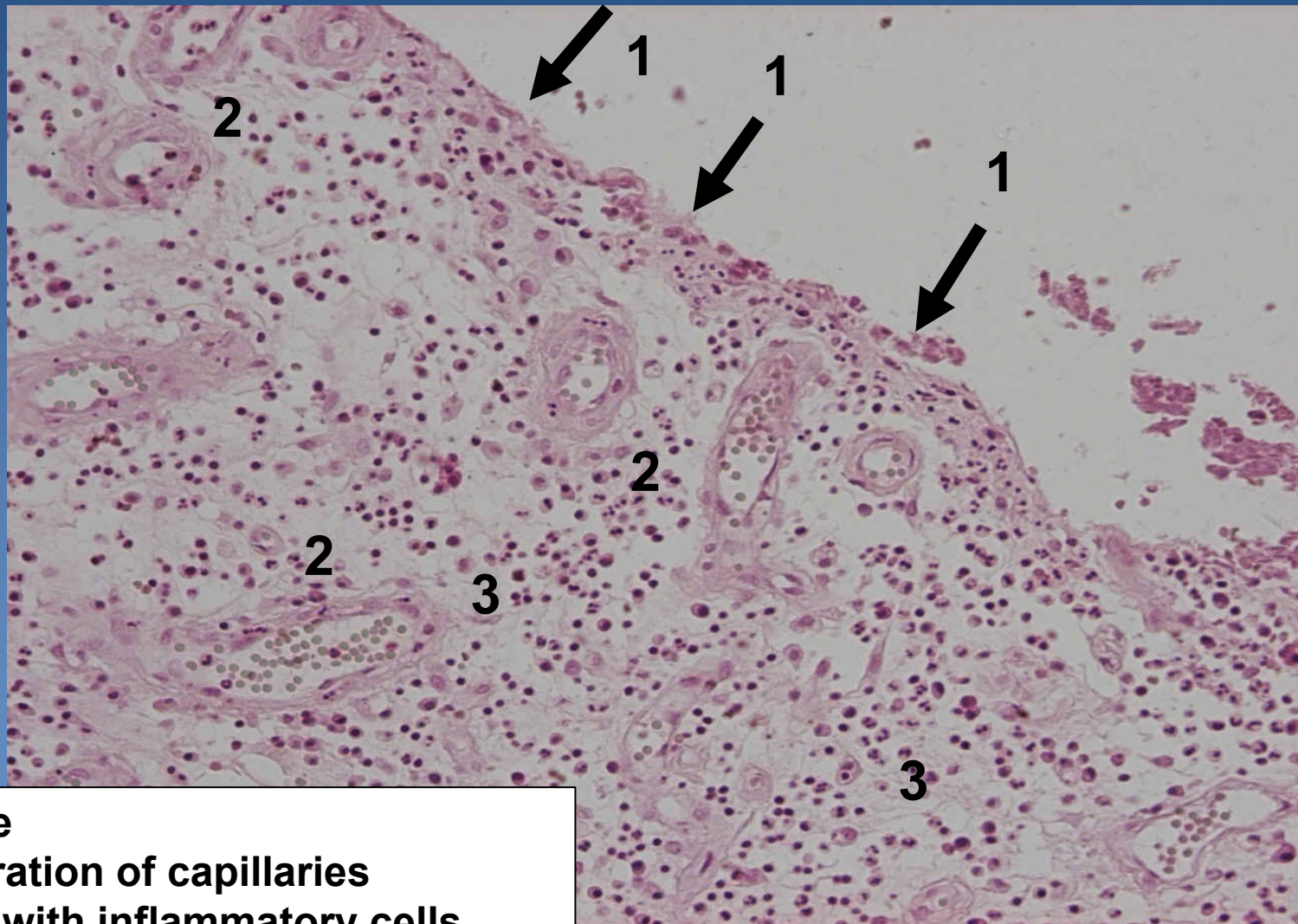
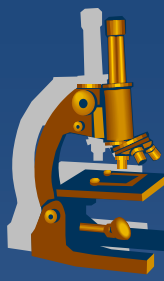


# 1. Myocardial amyloidosis



**1 Normal cardiomyocytes**  
**2 Pink masses of amyloid**

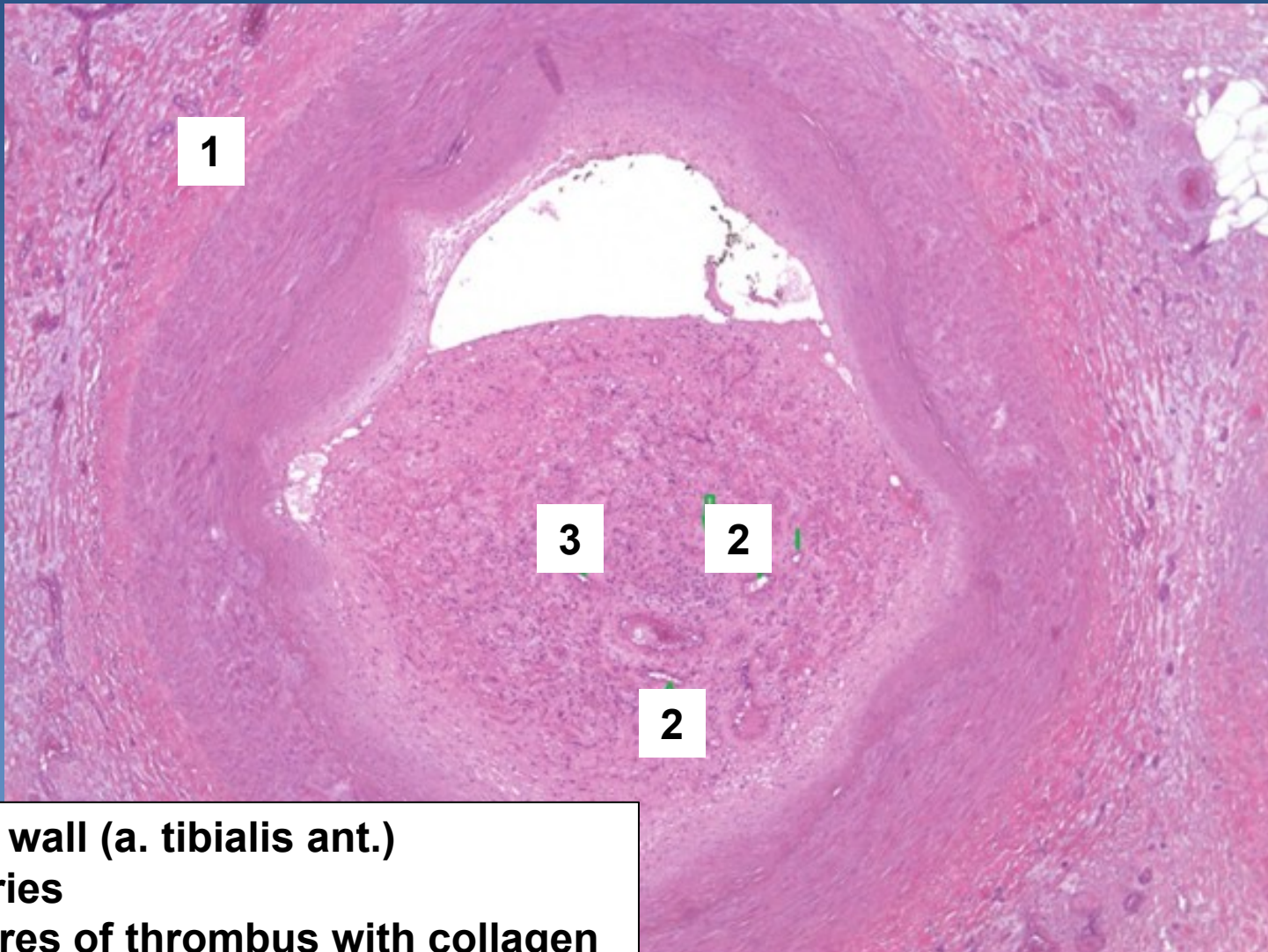
# 2. Granulation tissue



- 1 Surface
- 2 Proliferation of capillaries
- 3 Tissue with inflammatory cells

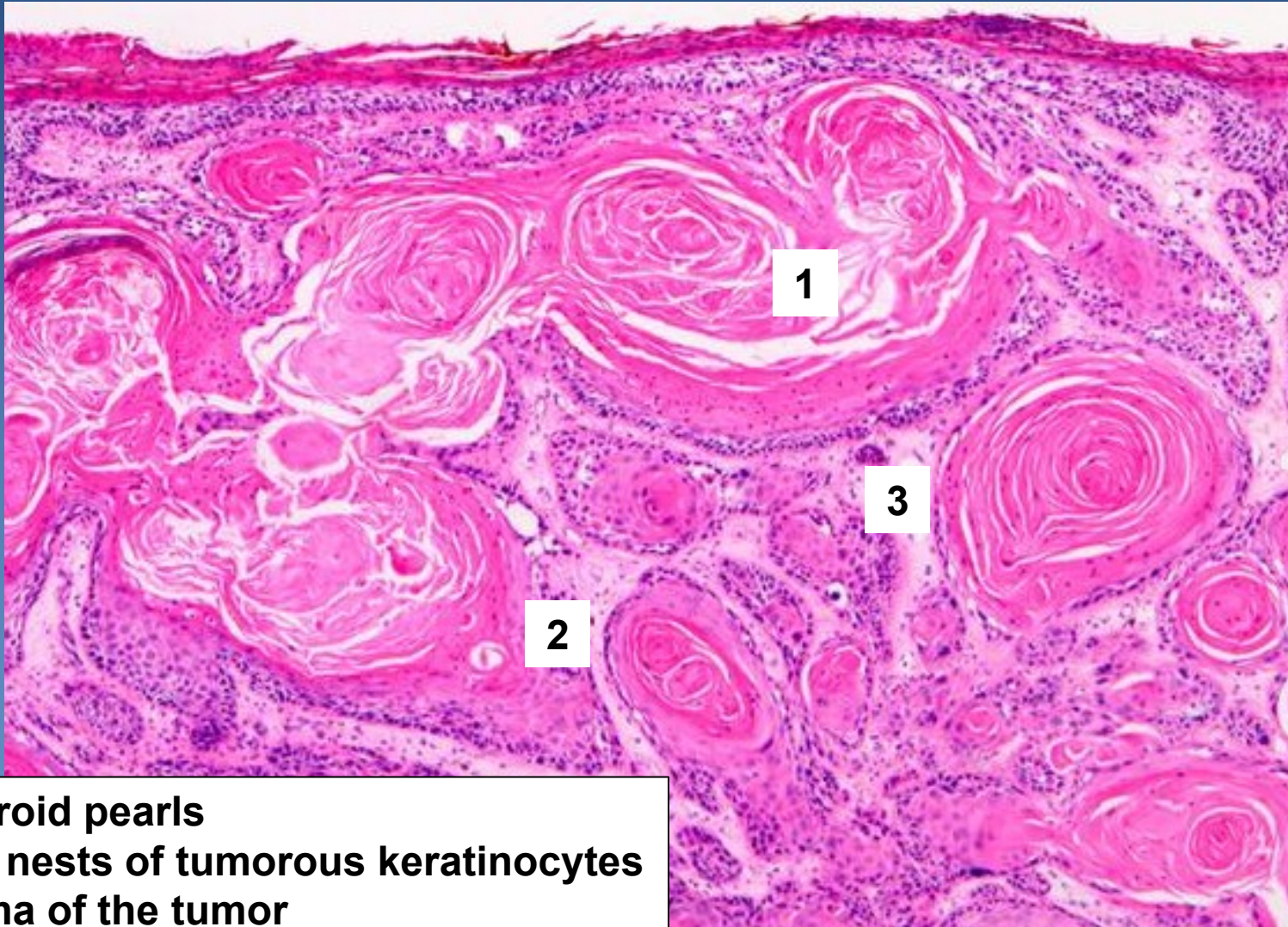


# 3. Organized thrombus



**1 Arterial wall (a. tibialis ant.)**  
**2 Capillaries**  
**3 Structures of thrombus with collagen**

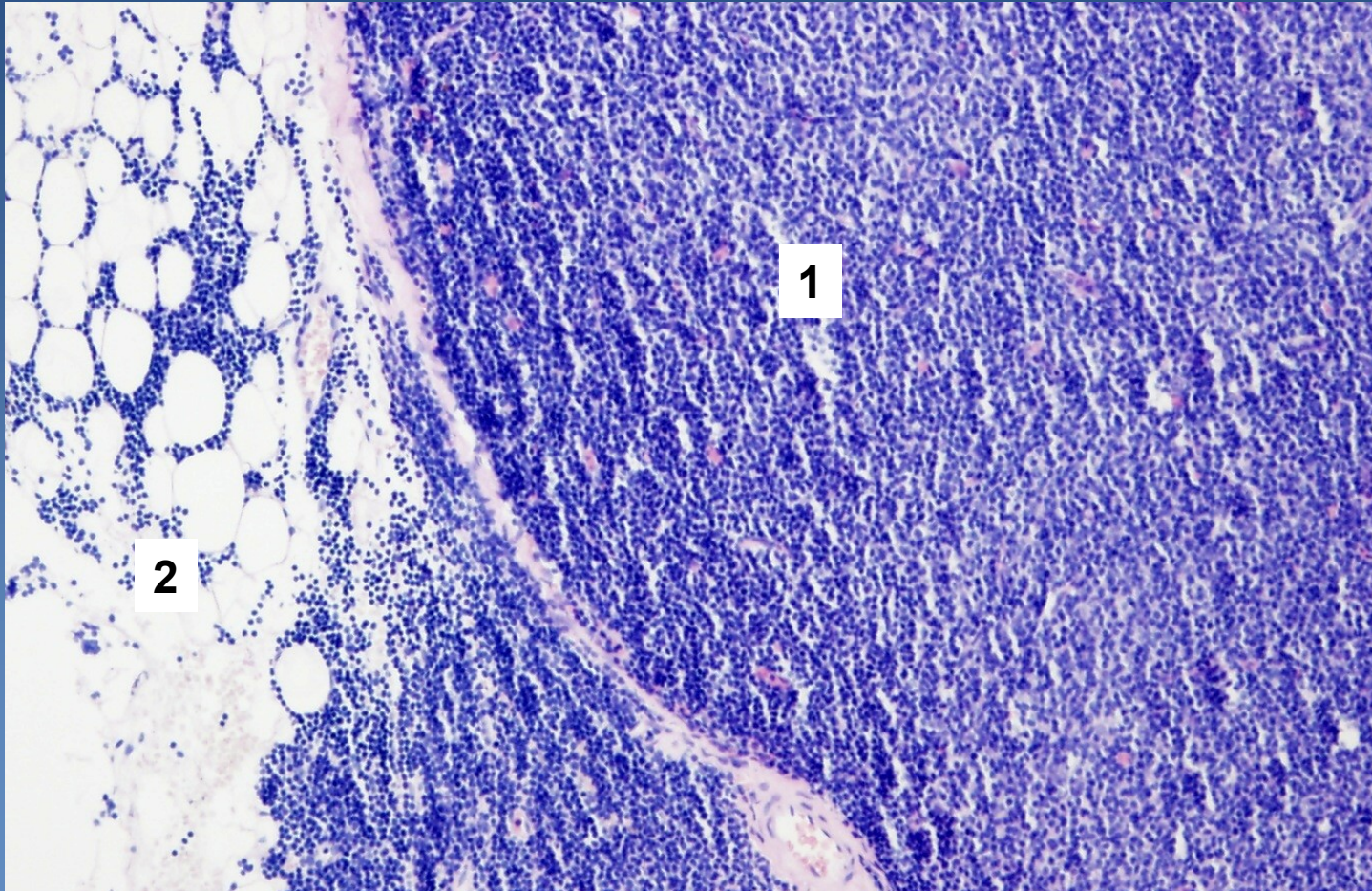
# 4. Squamous cell carcinoma



**1 Cancroid pearls**  
**2 Solid nests of tumorous keratinocytes**  
**3 Stroma of the tumor**



# 5. CLL/SLL

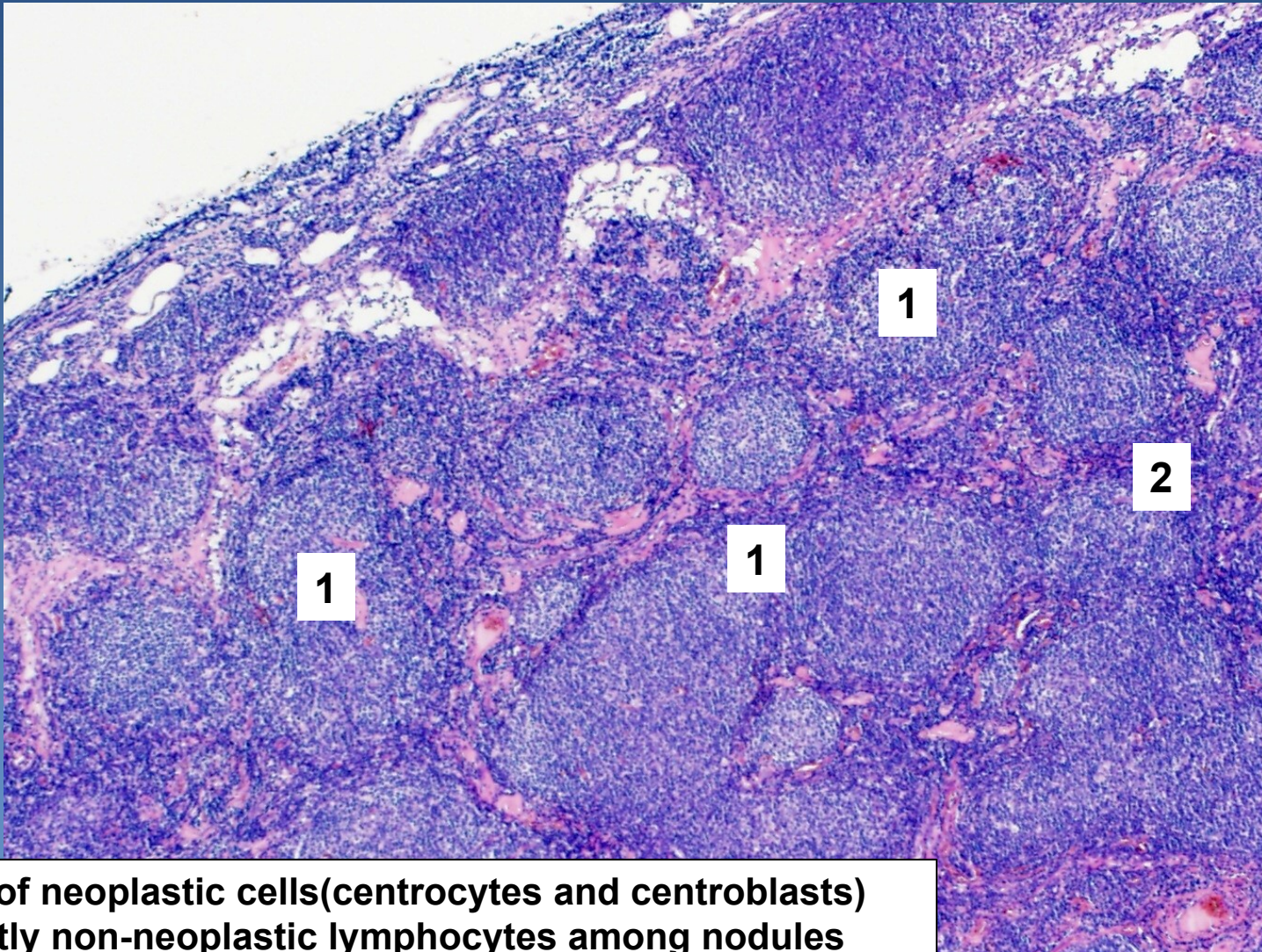


**1 Diffuse infiltration in lymph node (mostly prolymphocytes and small lymphocytes – focally with pseudofollicles)**

**2 Infiltration of perinodal adipose tissue**



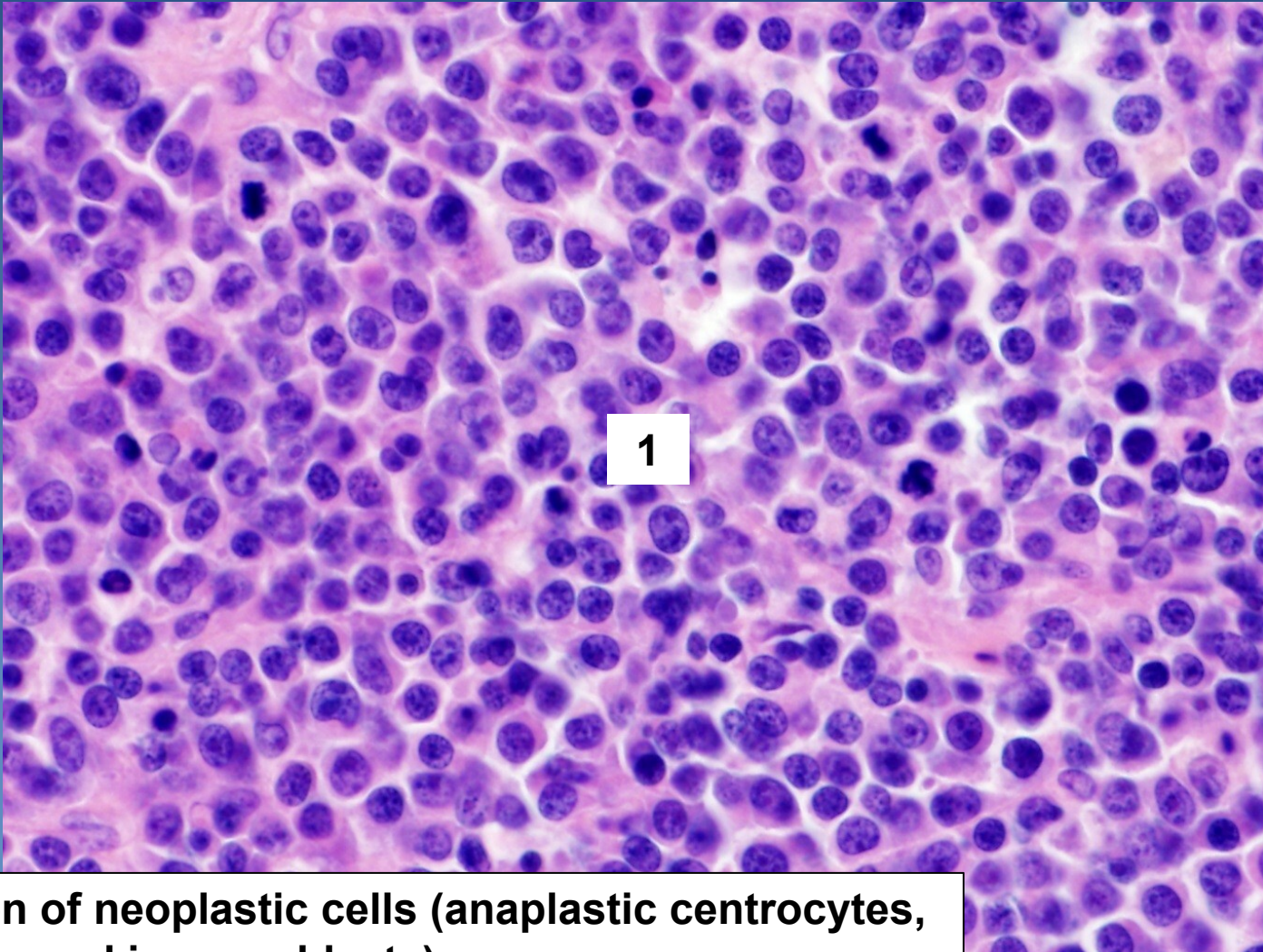
# 6. Follicular lymphoma



- 1 Nodules of neoplastic cells(centrocytes and centroblasts)
- 2 Dominantly non-neoplastic lymphocytes among nodules



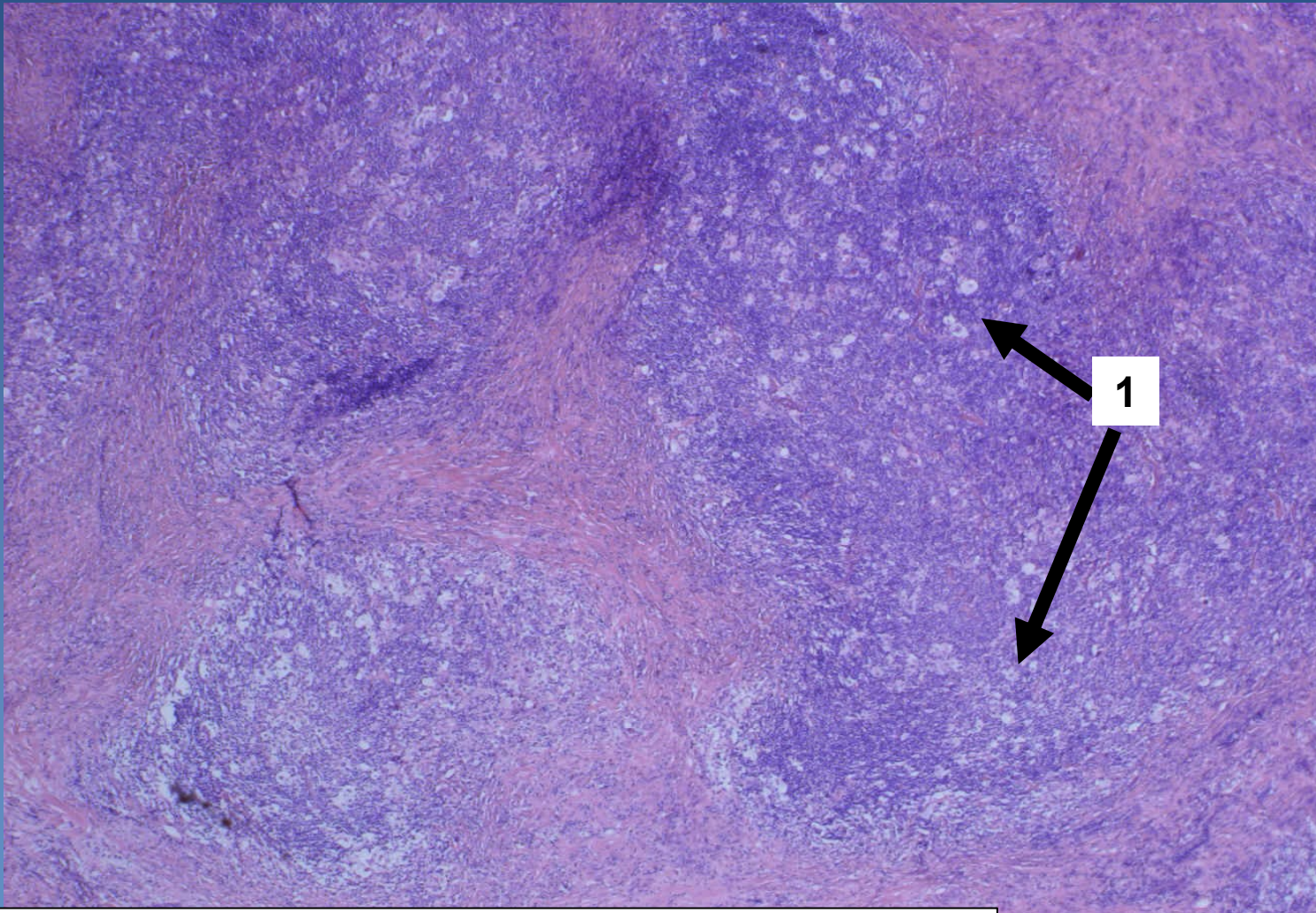
# 7. Diffuse large B-cell lymphoma (DLBCL)



1 Population of neoplastic cells (anaplastic centrocytes, centroblasts and immunoblasts)



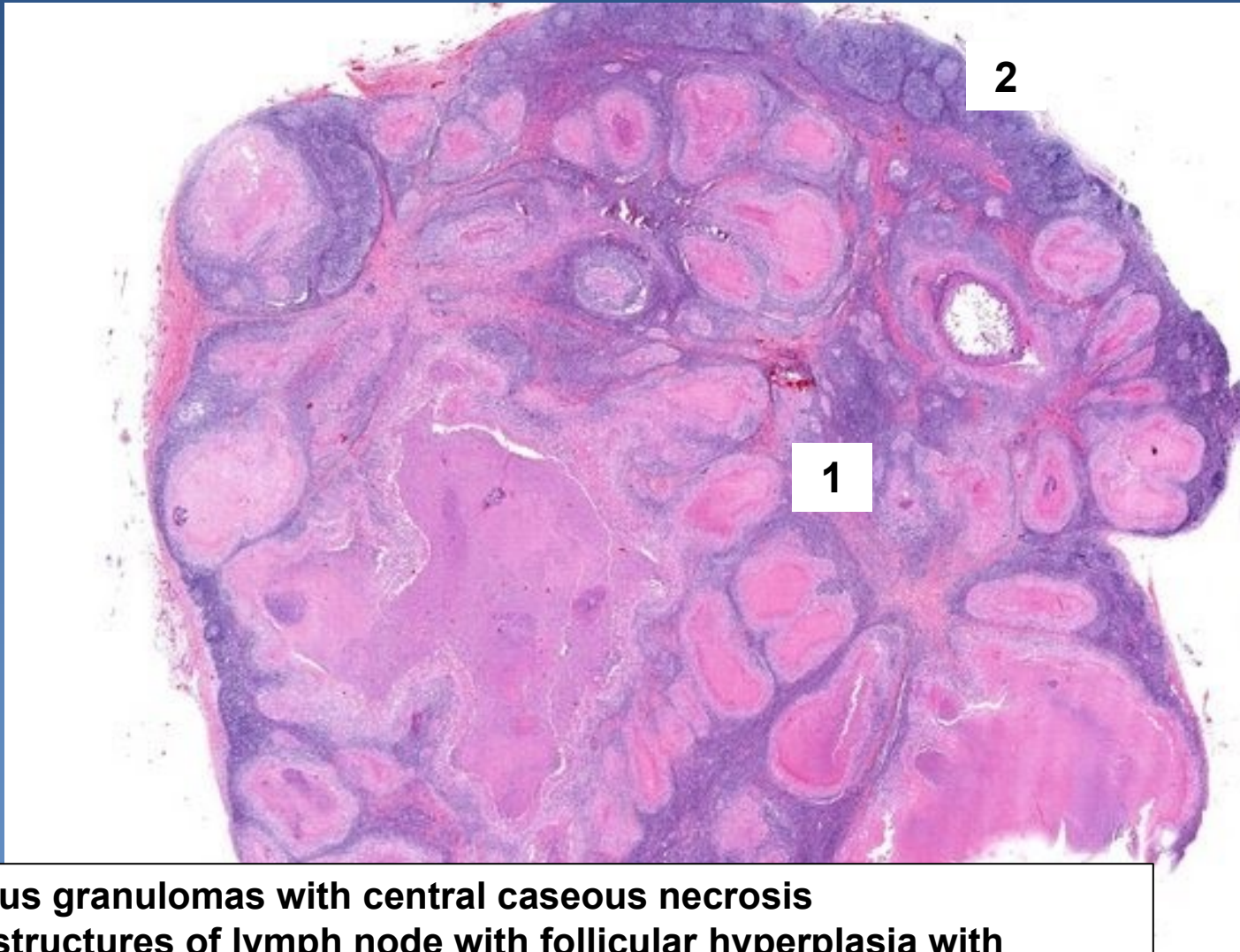
# 8. Hodgkin lymphoma, classical, nodular sclerosis



1 Lacunar cells in reactive non-neoplastic background

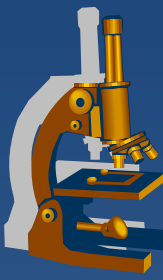


# 9. TBC lymphadenopathy

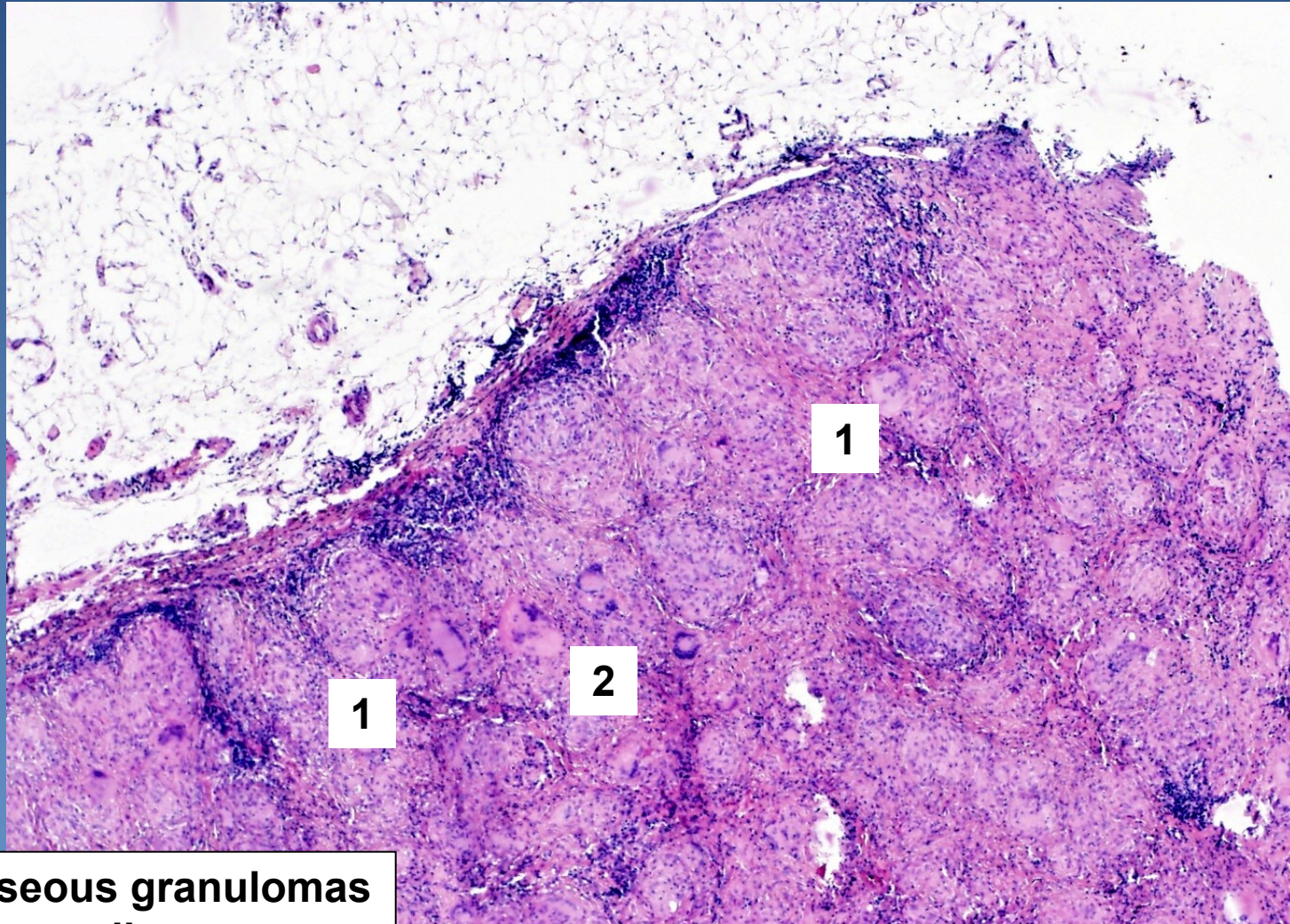


- 1 Tuberculous granulomas with central caseous necrosis
- 2 Remnant structures of lymph node with follicular hyperplasia with





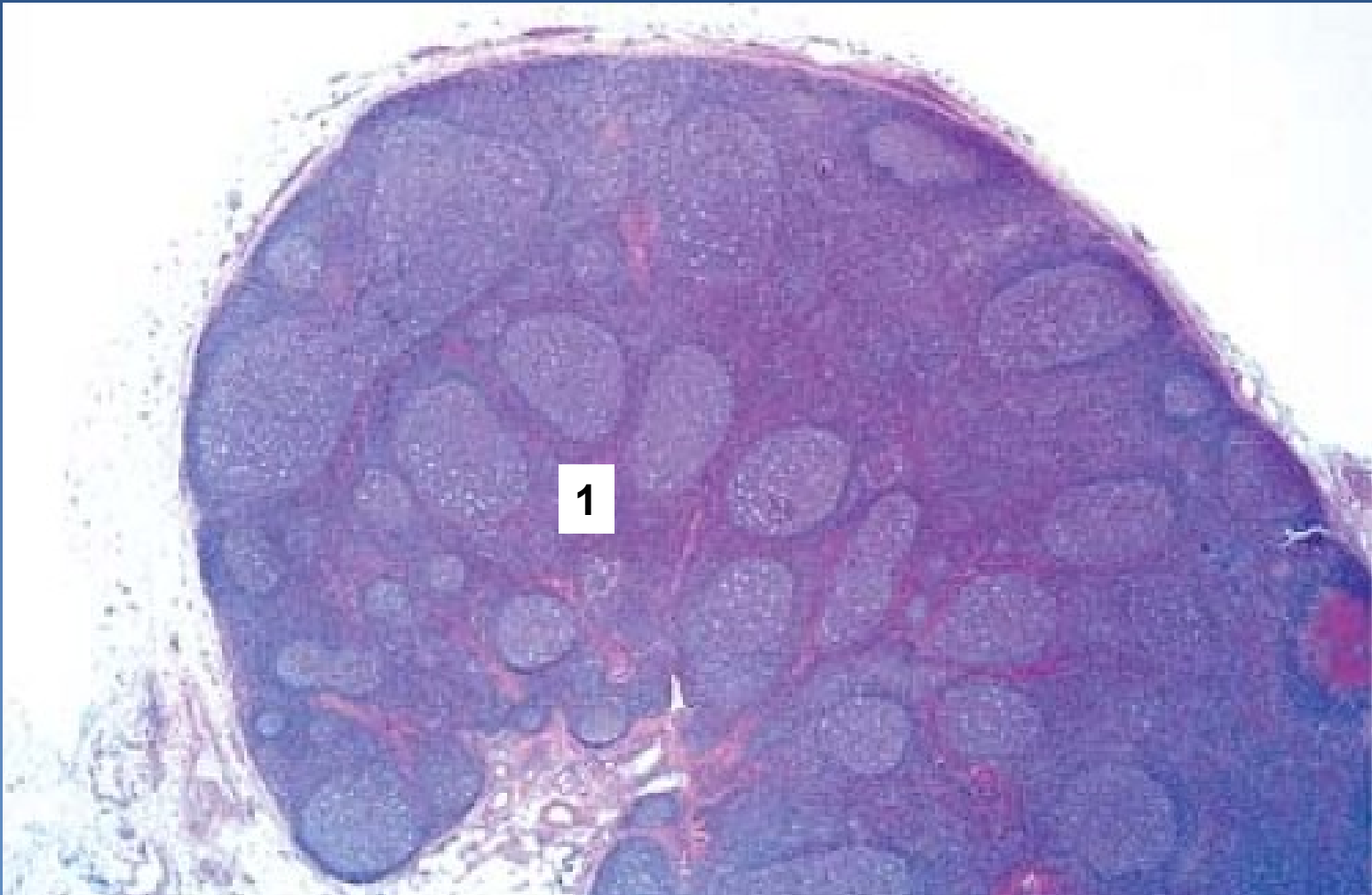
# 10. Sarcoidosis of lymph node



1 Non-caseous granulomas  
2 Langhans cells



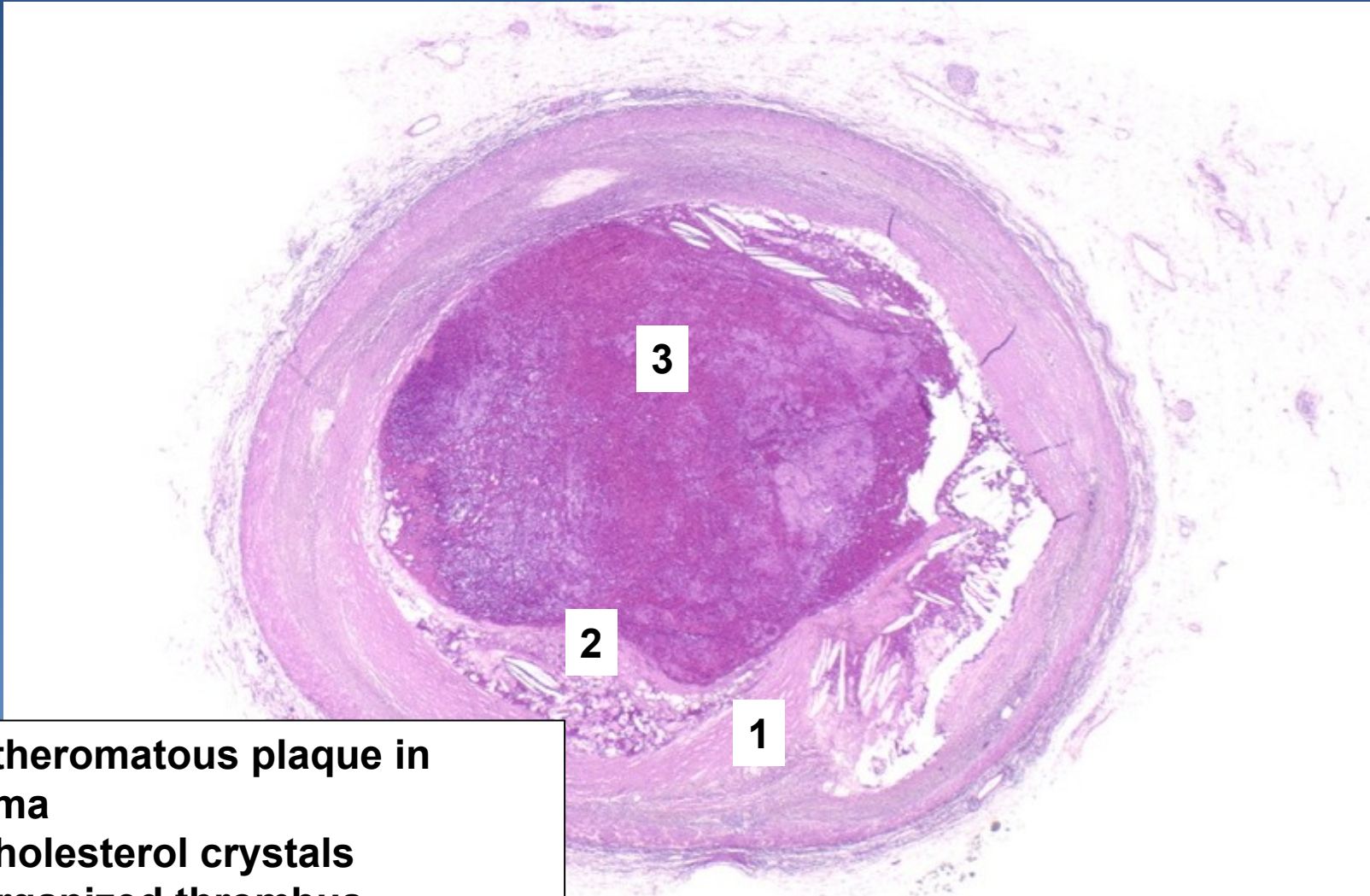
# ***11. Reactive lymphadenopathy***



**1 Structures of lymph node with follicular hyperplasia with germinal centers**



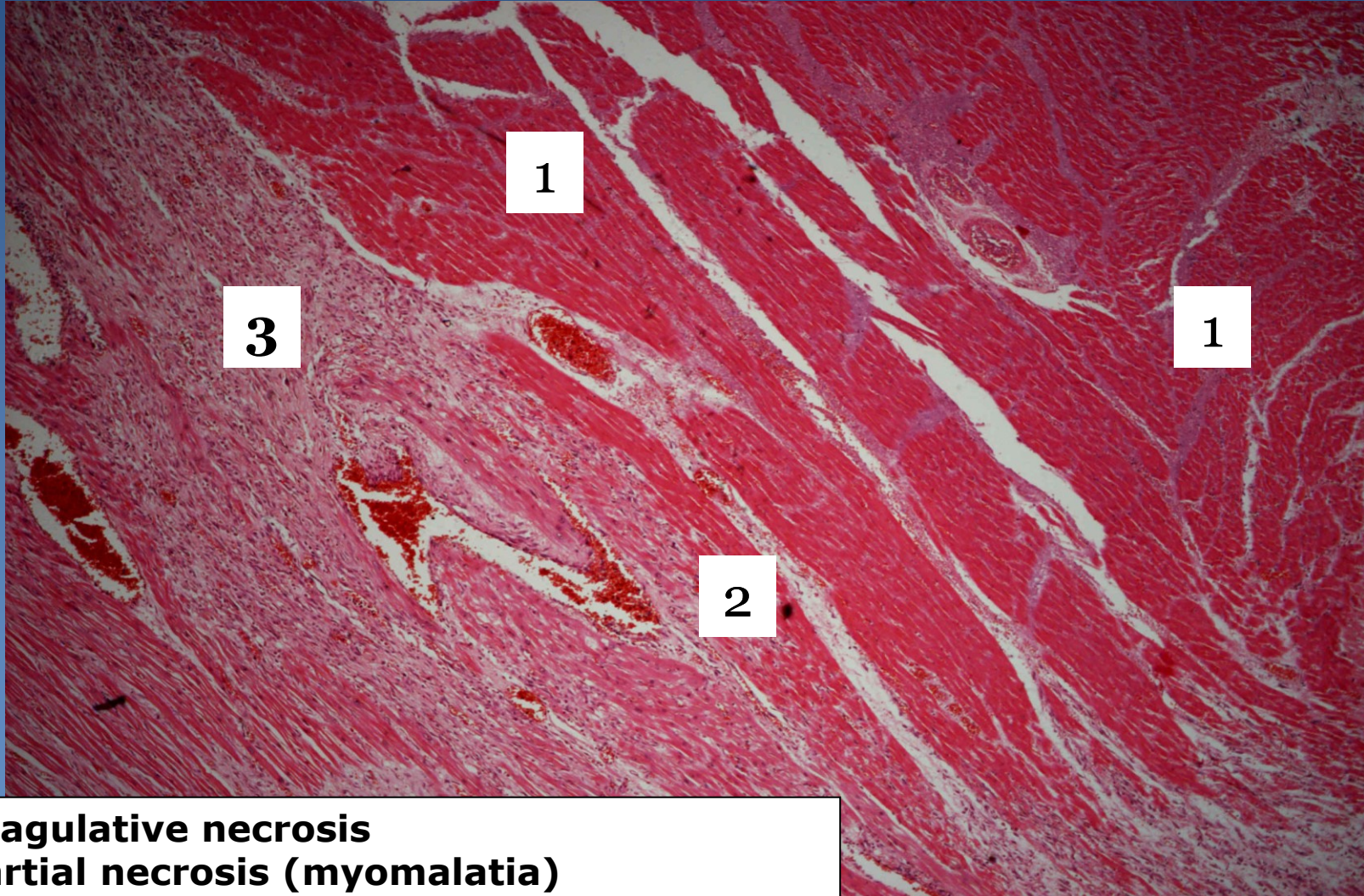
# ***12. Atherosclerosis with mural thrombosis***



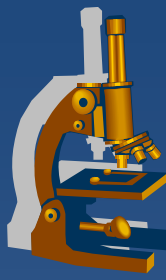
- 1 Atheromatous plaque in intima**
- 2 Cholesterol crystals**
- 3 Organized thrombus**



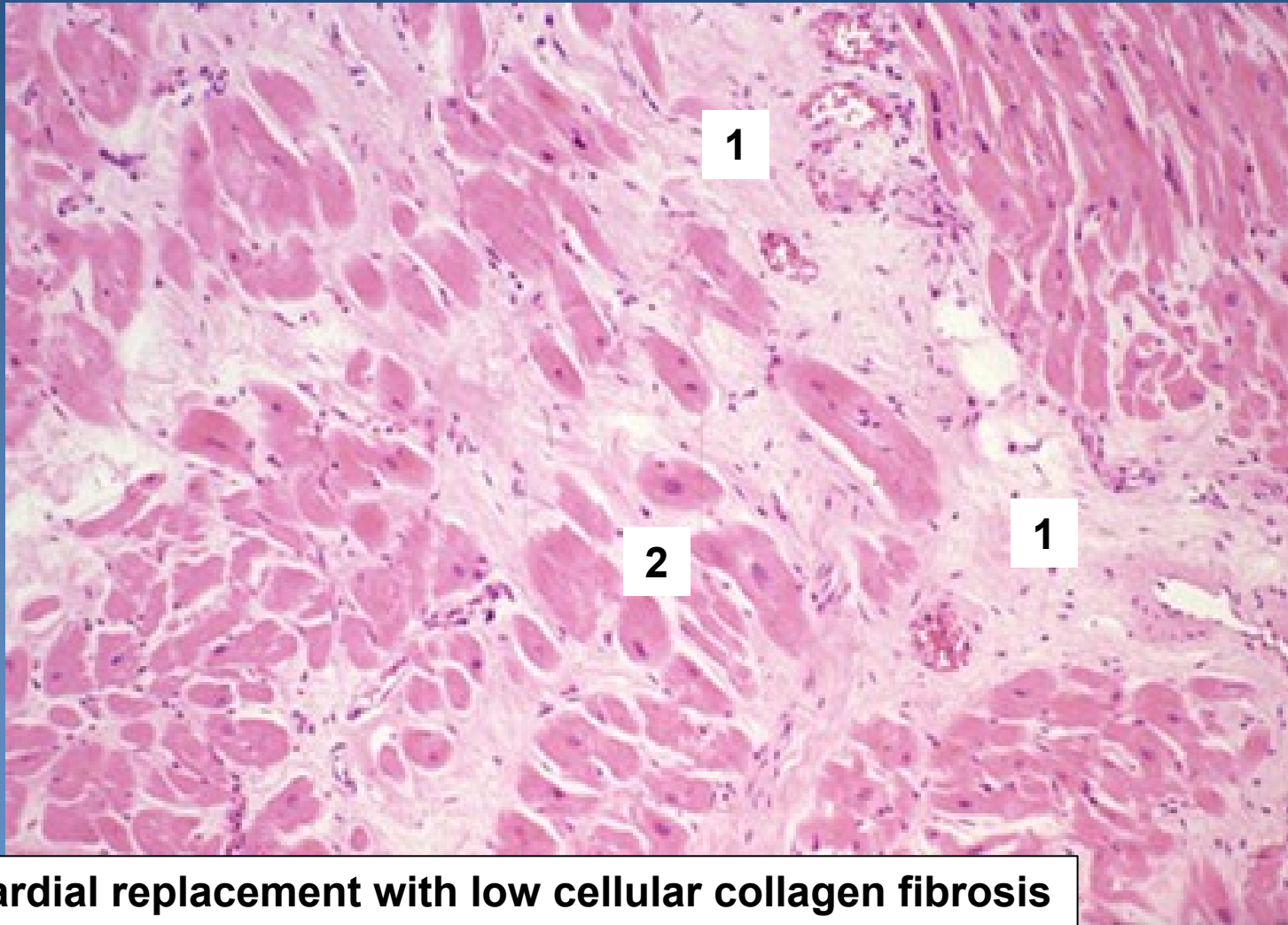
# 13. Myocardial infarction



- 1 coagulative necrosis**
- 2 partial necrosis (myomalacia)**
- 3 granulation tissue, inflammatory infiltrate**



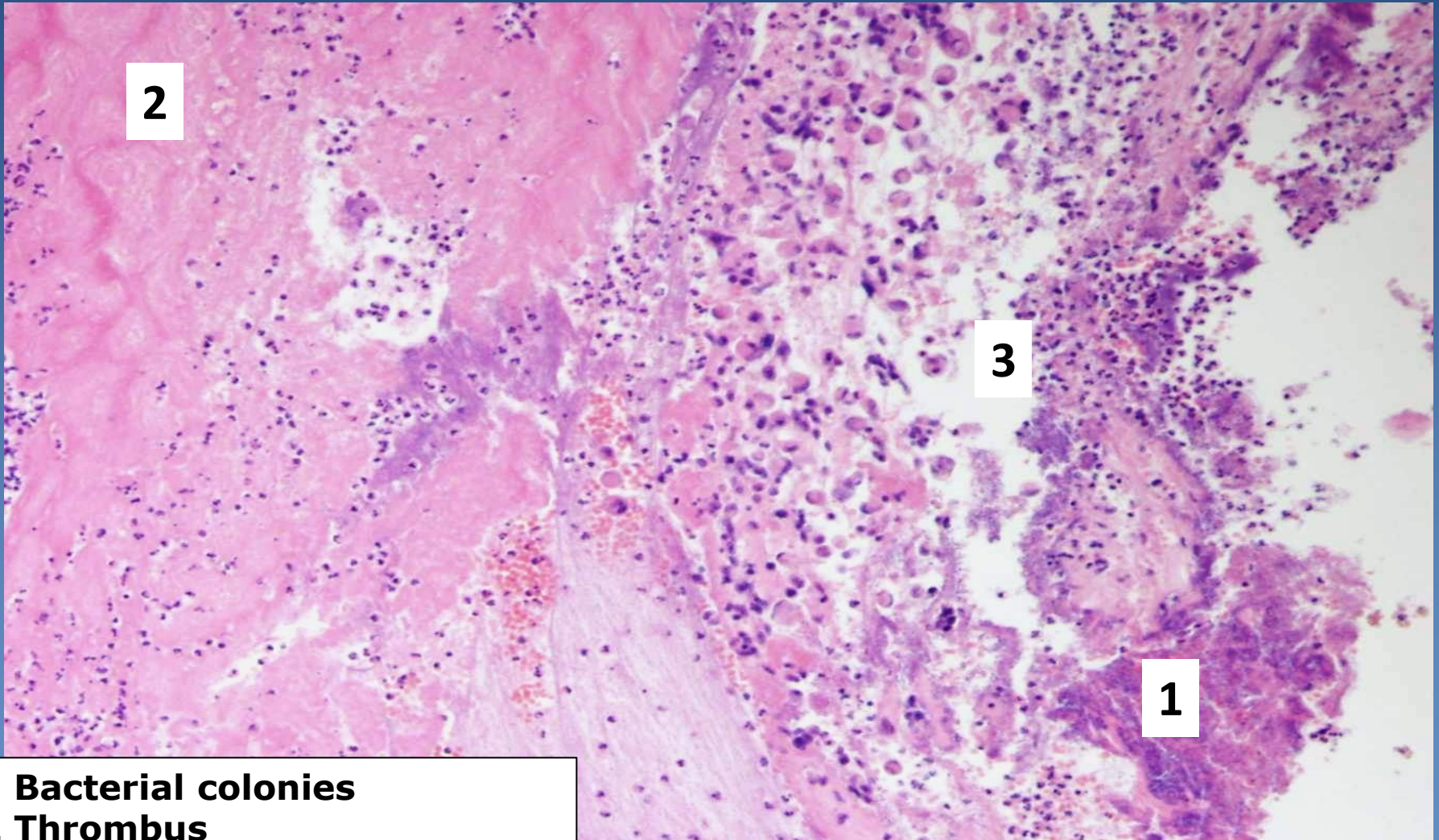
# 14. Dispersive myocardial myofibrosis



**1 Myocardial replacement with low cellular collagen fibrosis**  
**2 Hypertrophic cardiomyocytes**



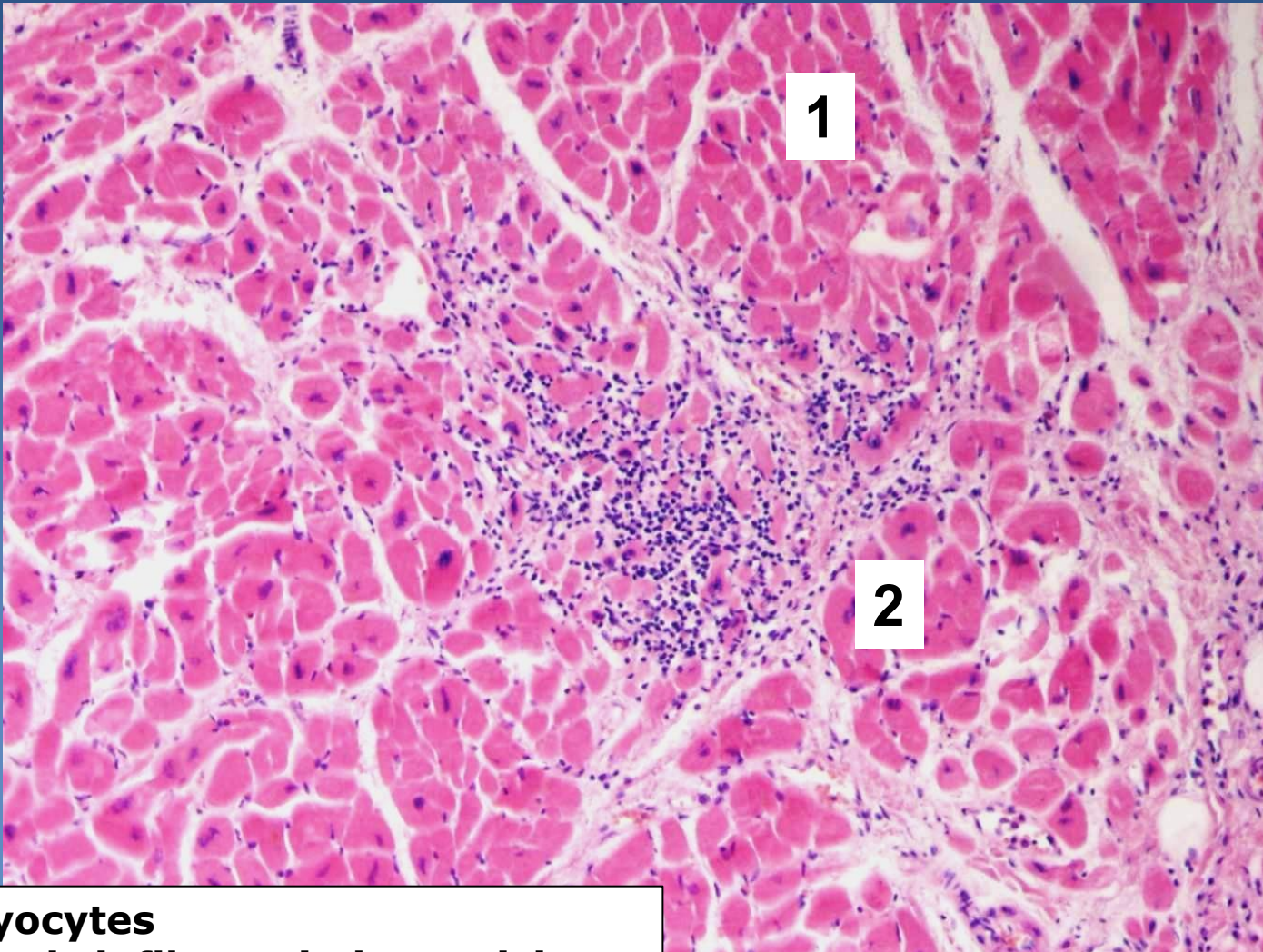
# 15. *Acute infective endocarditis*



**1 Bacterial colonies**  
**2 Thrombus**  
**3 inflammatory infiltrate**



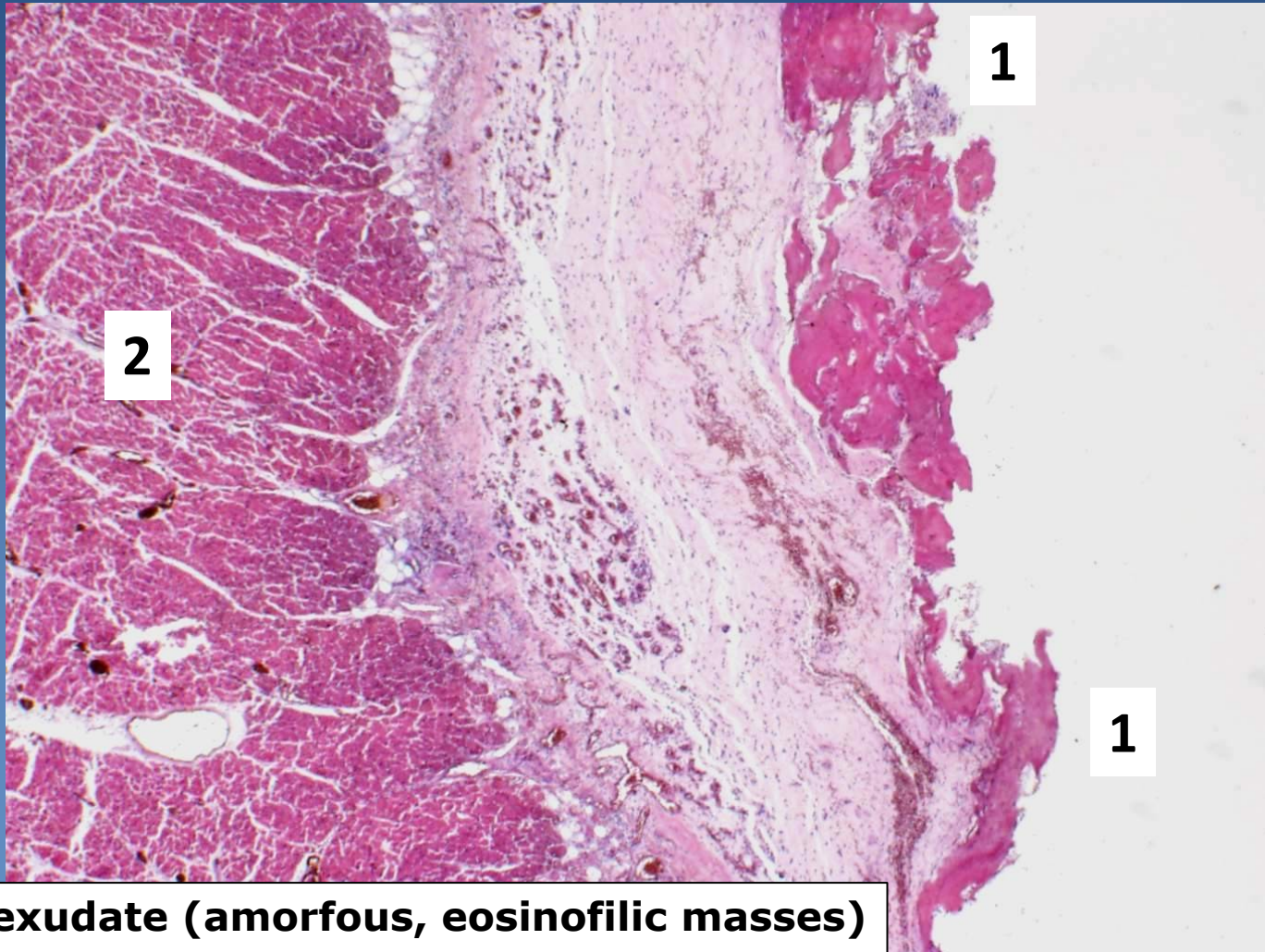
# 16. Viral myocarditis



**1** Cardiomyocytes  
**2** Lymphocytic infiltrate in interstitium

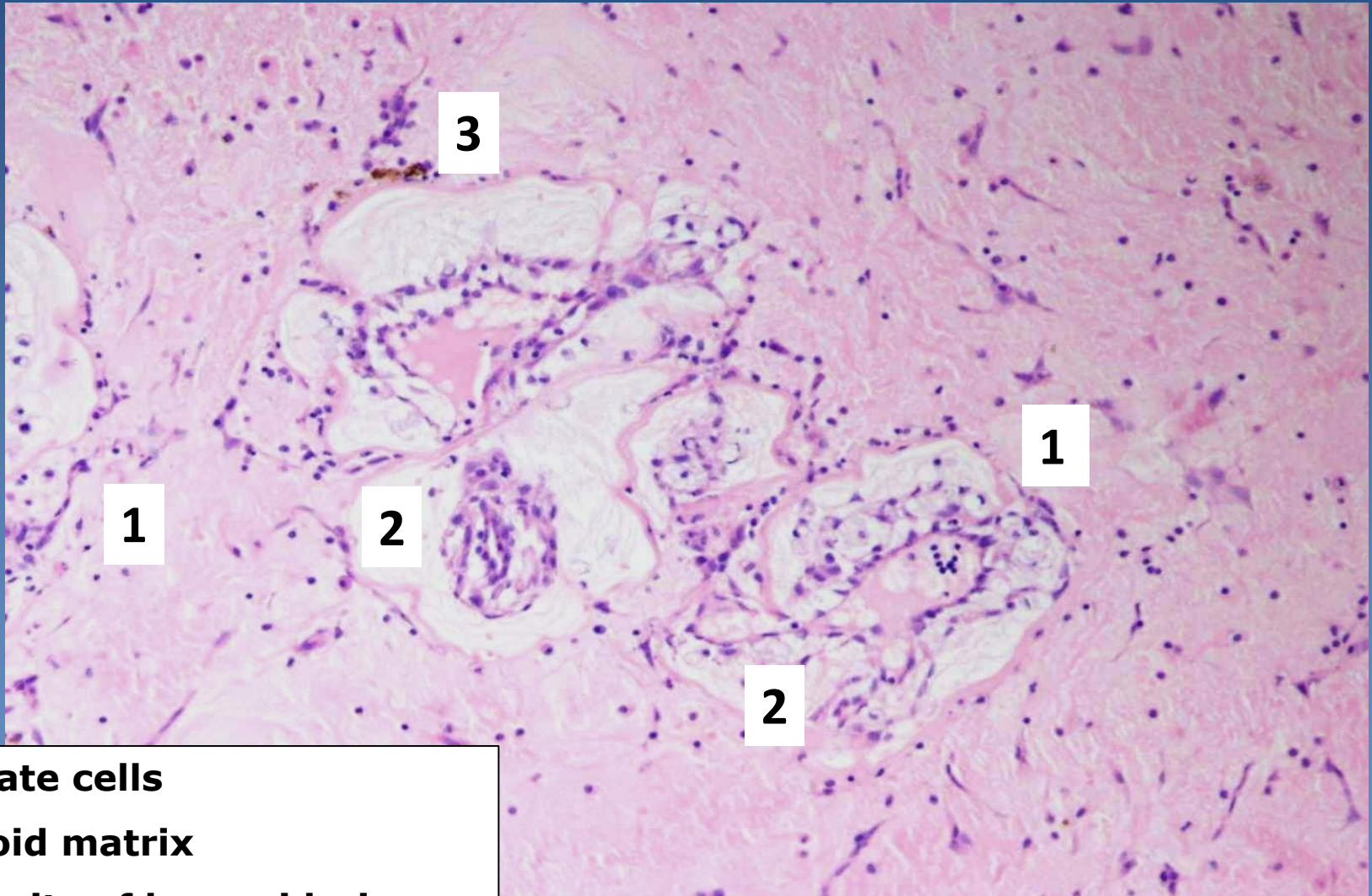


# 17. Fibrinous pericarditis



**1 Fibrinous exudate (amorphous, eosinophilic masses)**  
**2 Myocardium**

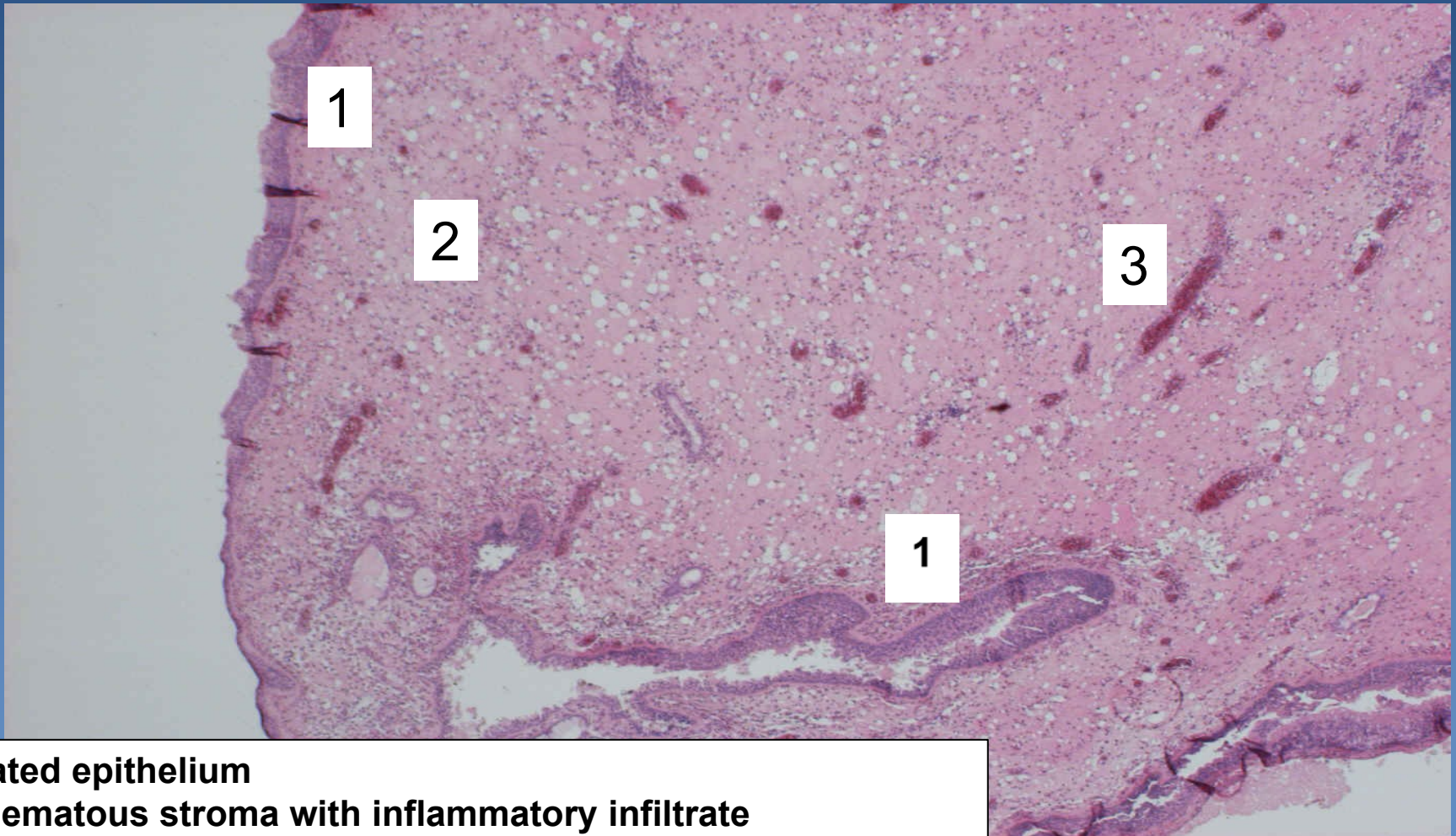
# 18. Myxoma of the left atrium



- 1 Stellate cells**
- 2 Myxoid matrix**
- 3 Deposits of hemosiderin**



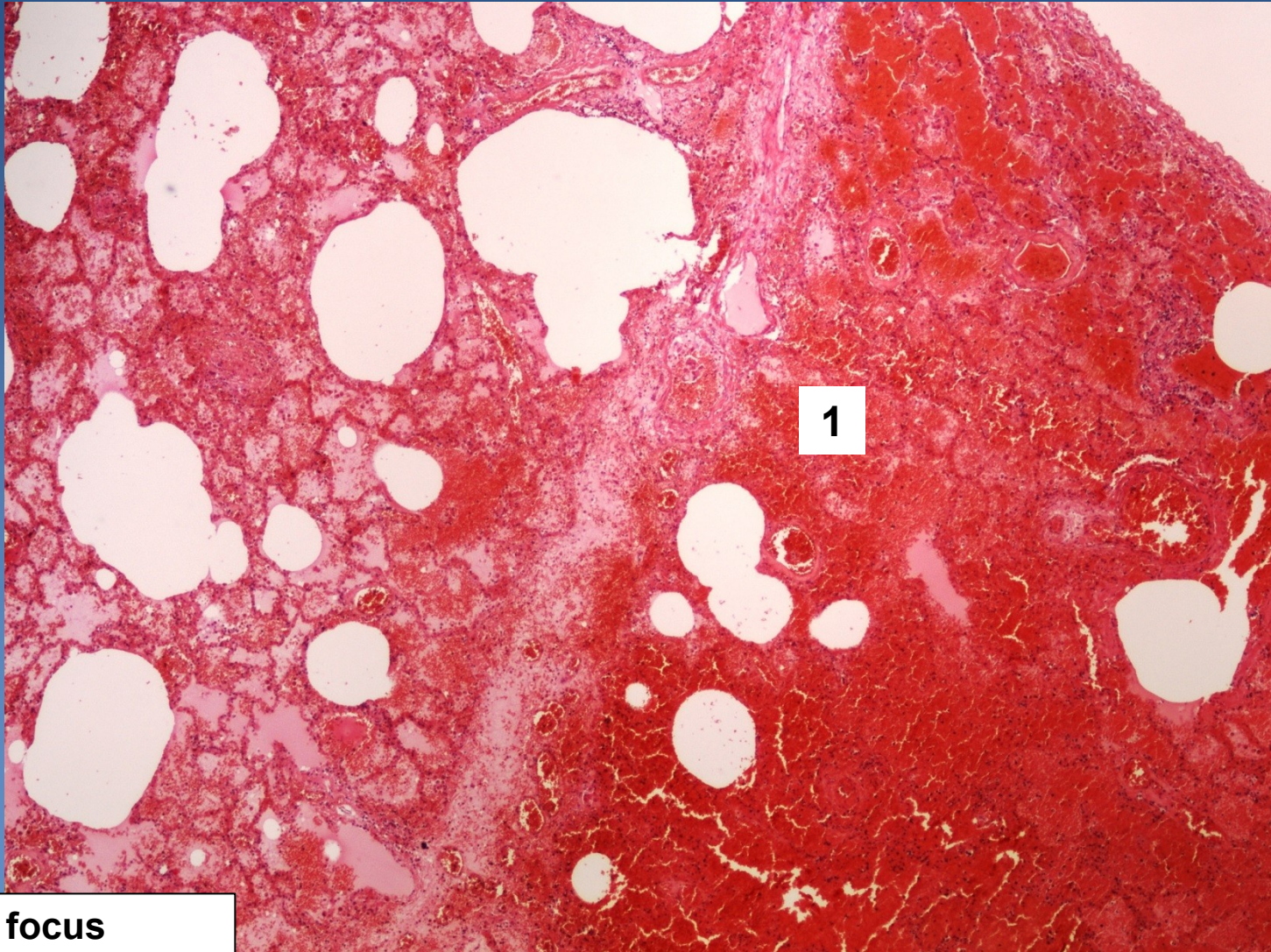
# 19. *Polypous chronic rhinitis*



**1 Ciliated epithelium**  
**2 Oedematous stroma with inflammatory infiltrate**  
**3 Capillary**



# 20. Hemorrhagic pulmonary infarction

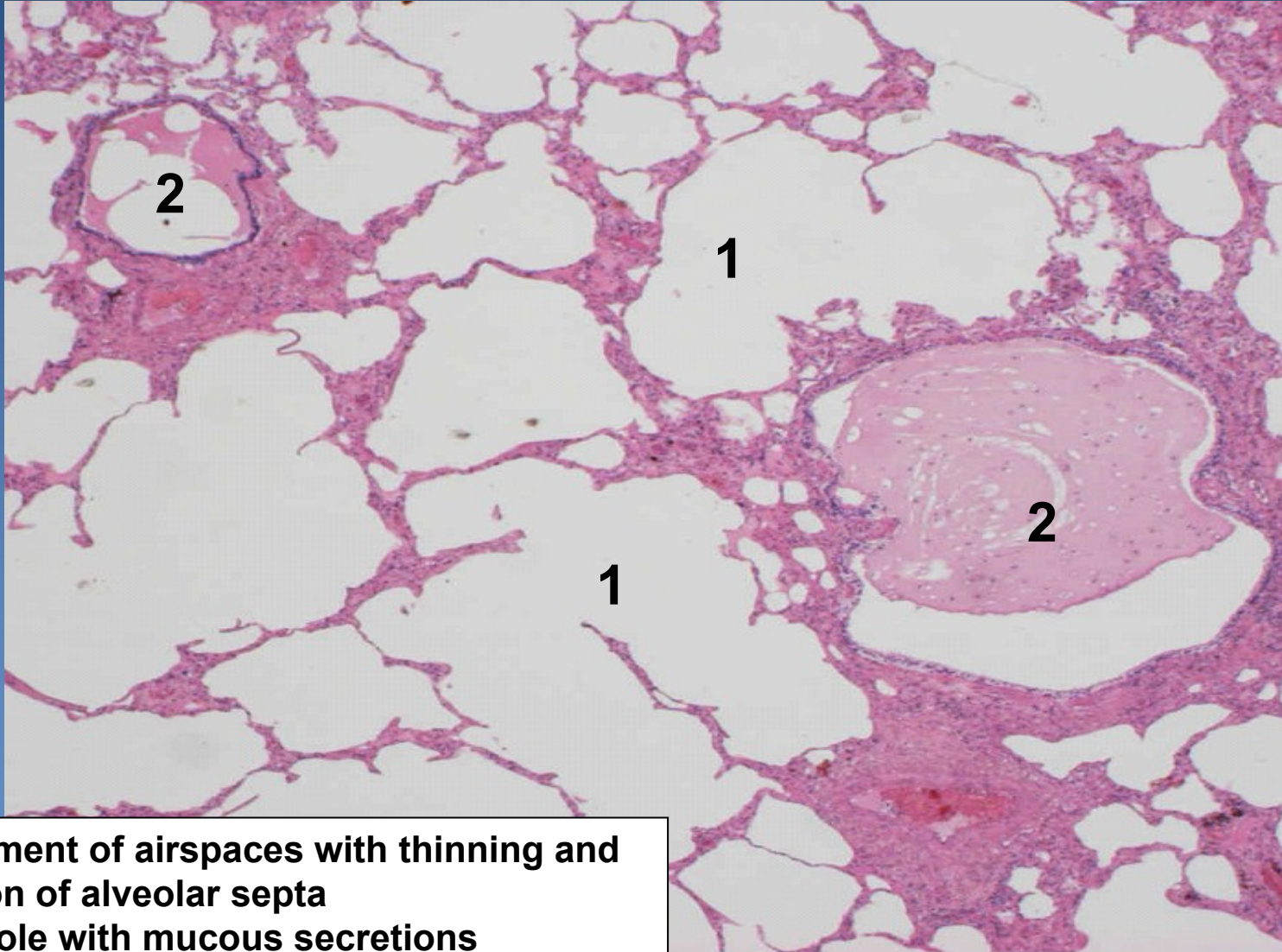


1

1 Necrotic focus

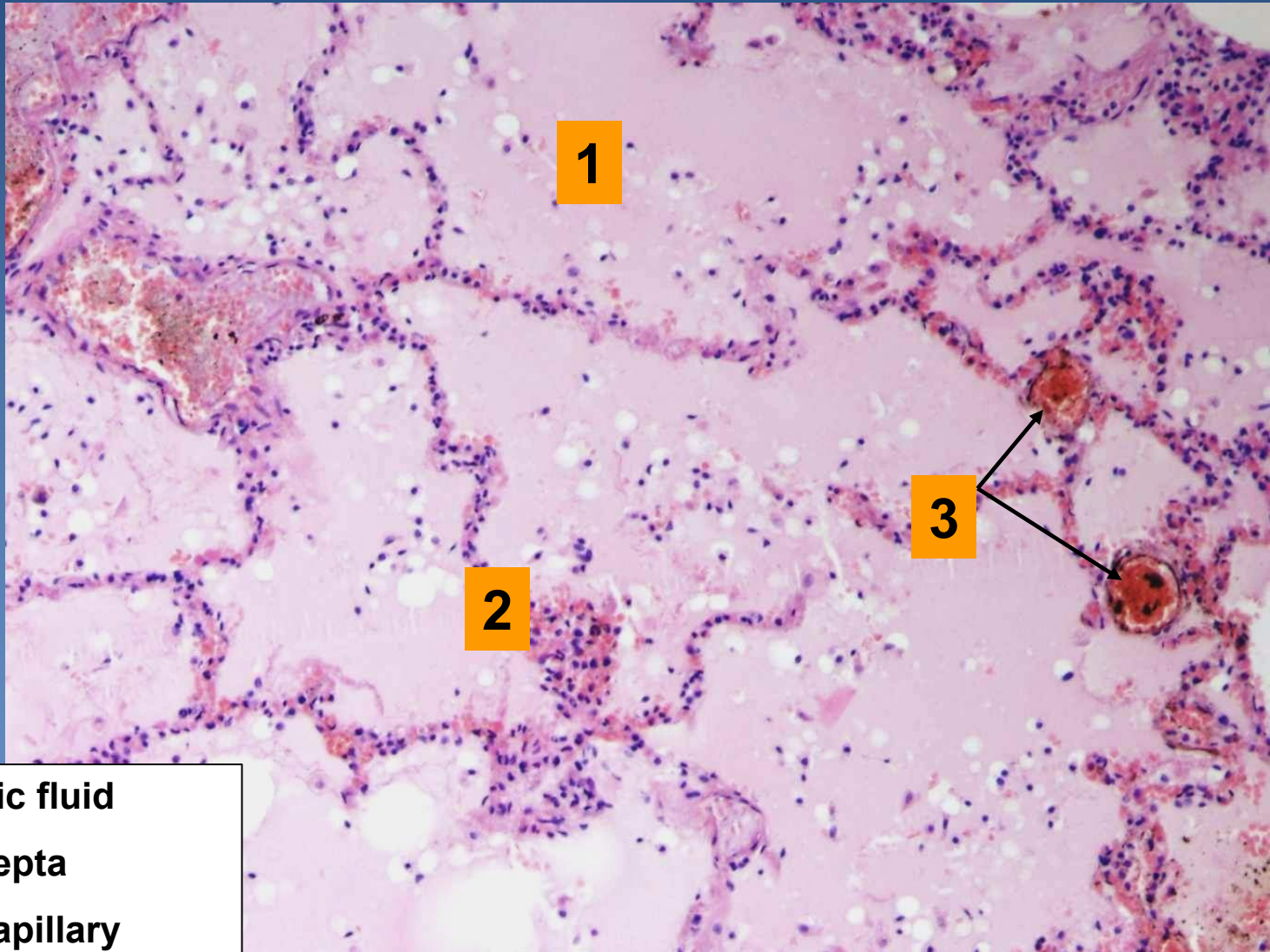


# 21. Alveolar emphysema



- 1 Enlargement of airspaces with thinning and destruction of alveolar septa
- 2 Bronchiole with mucous secretions

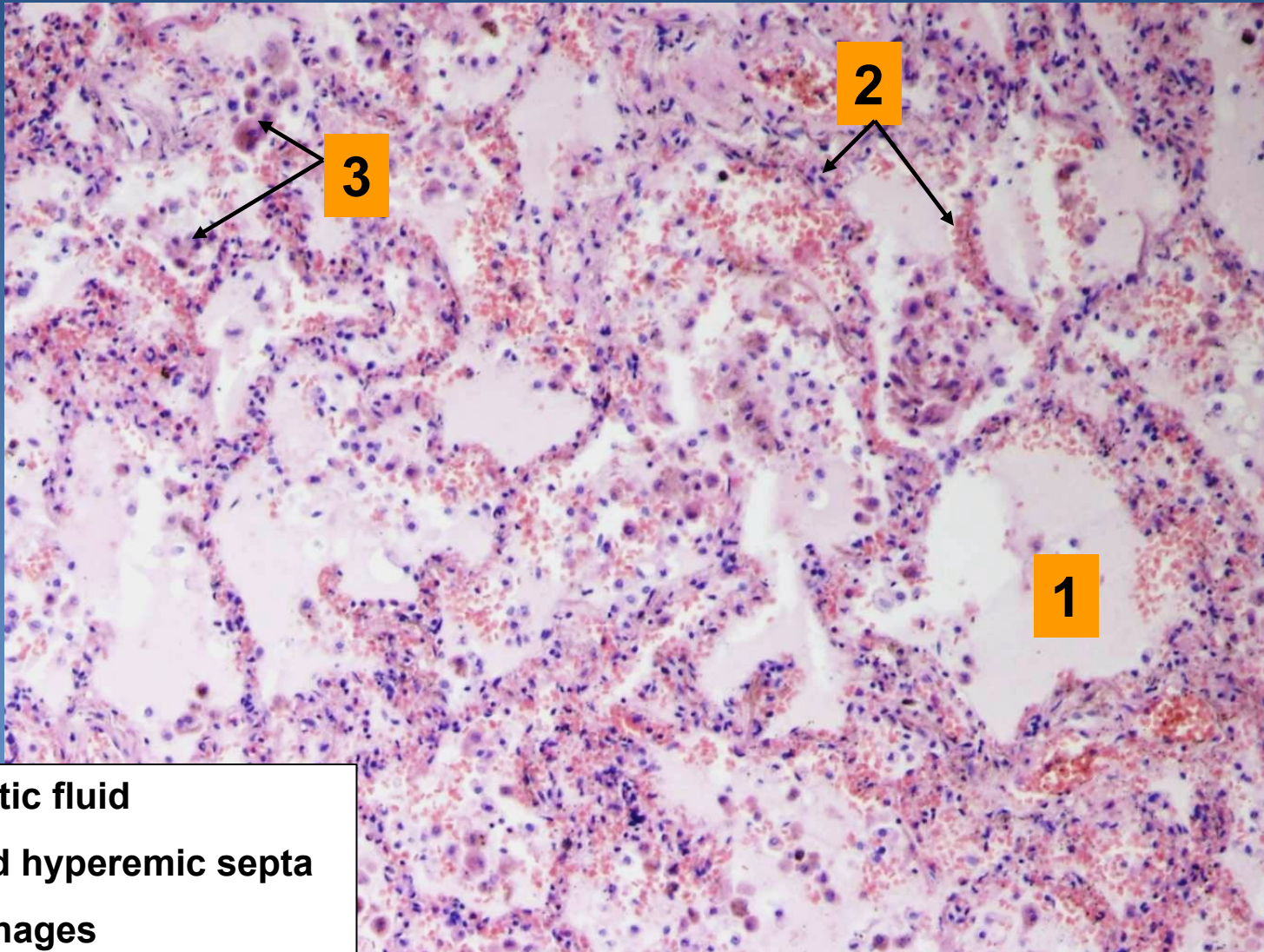
# 22. Alveolar oedema



- 1 Oedematic fluid
- 2 Dilated septa
- 3 Dilated capillary



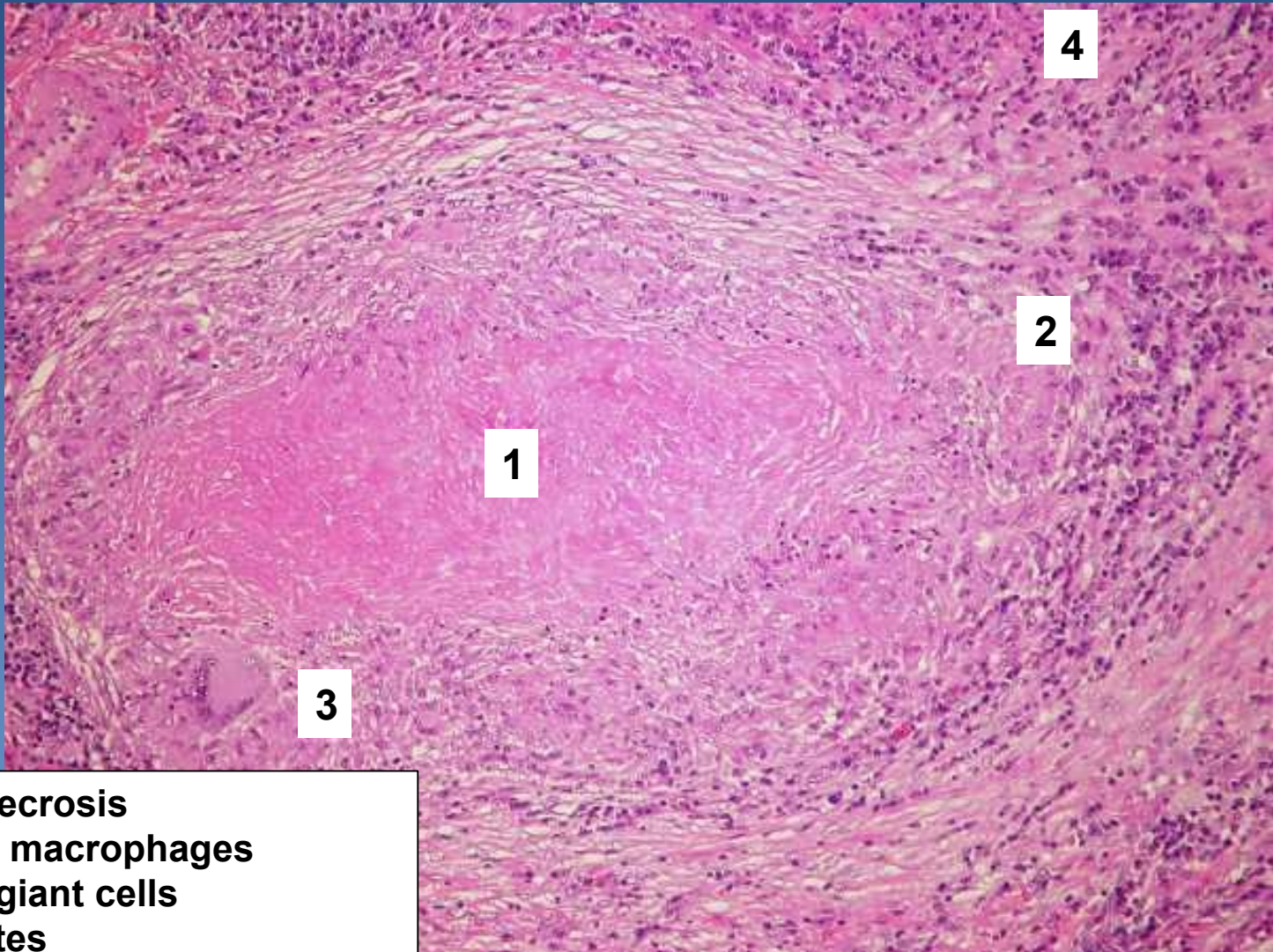
# 23. Chronic pulmonary venous congestion



- 1 Oedematic fluid
- 2 Enlarged hyperemic septa
- 3 Siderophages



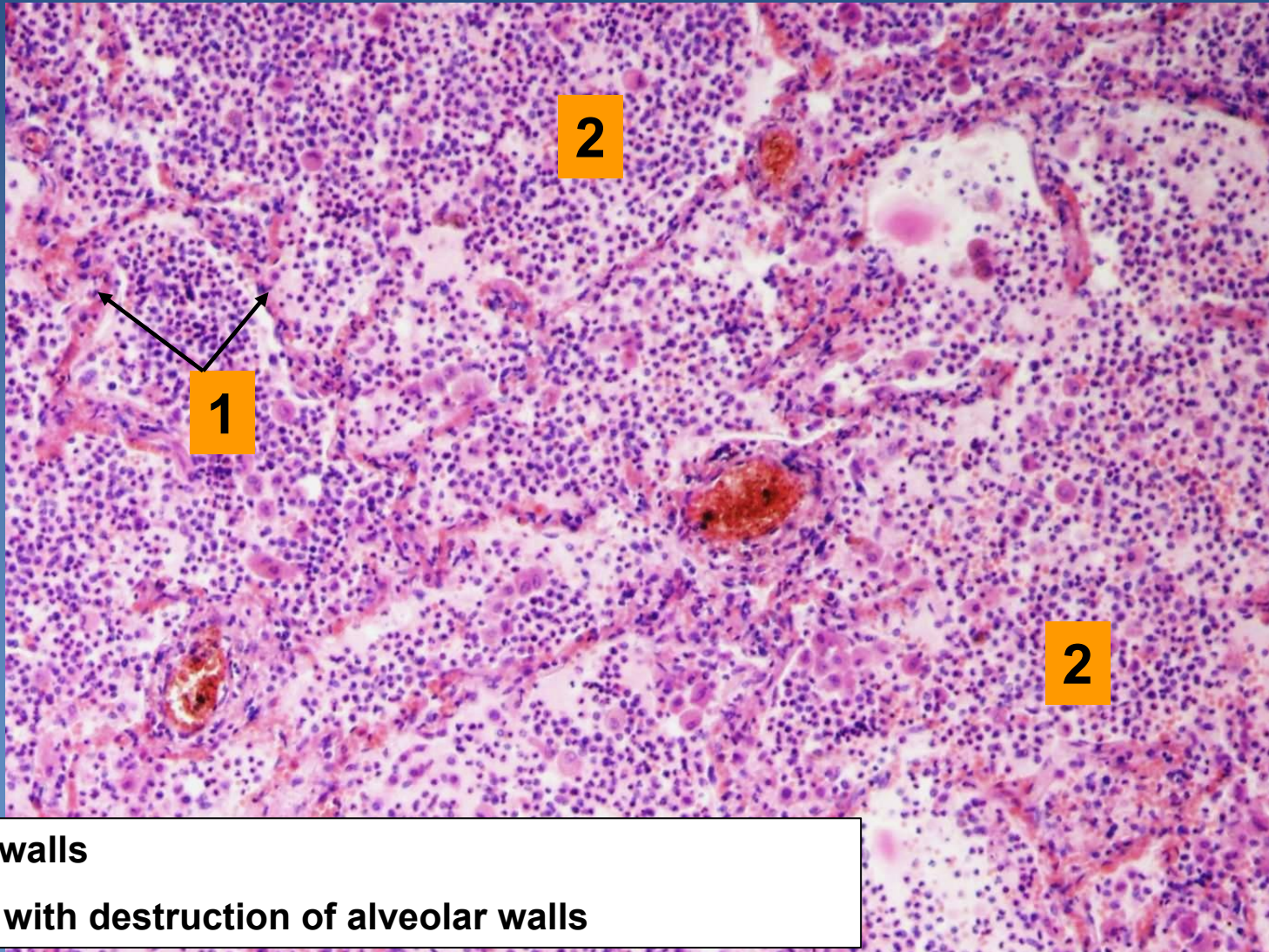
# 24. TBC granuloma of lungs



- 1 Caseous necrosis
- 2 Epithelioid macrophages
- 3 Langhans giant cells
- 4 Lymphocytes



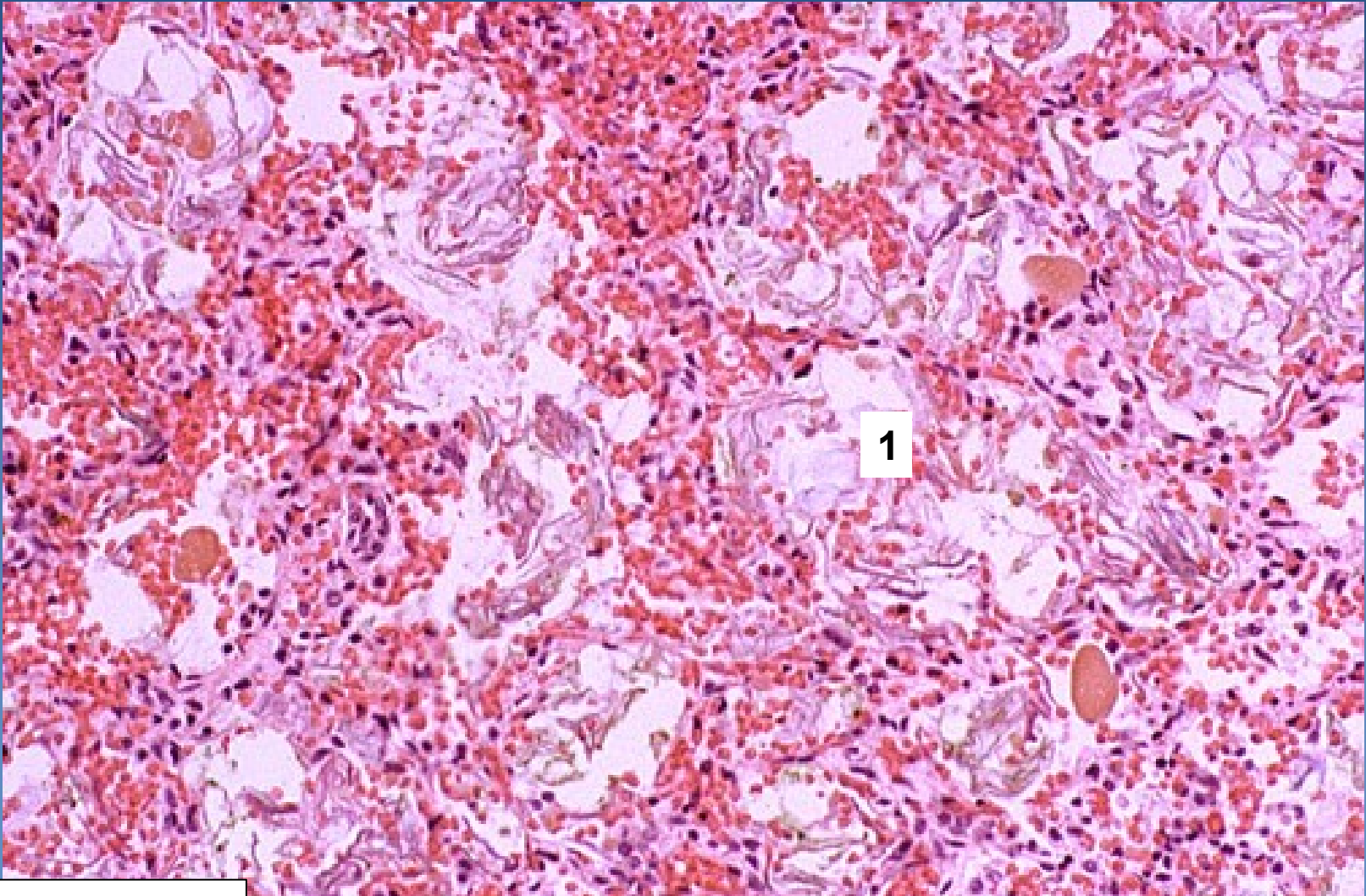
# 25. Purulent (abscessing) bronchopneumonia



1 Alveolar walls

2 Abscess with destruction of alveolar walls

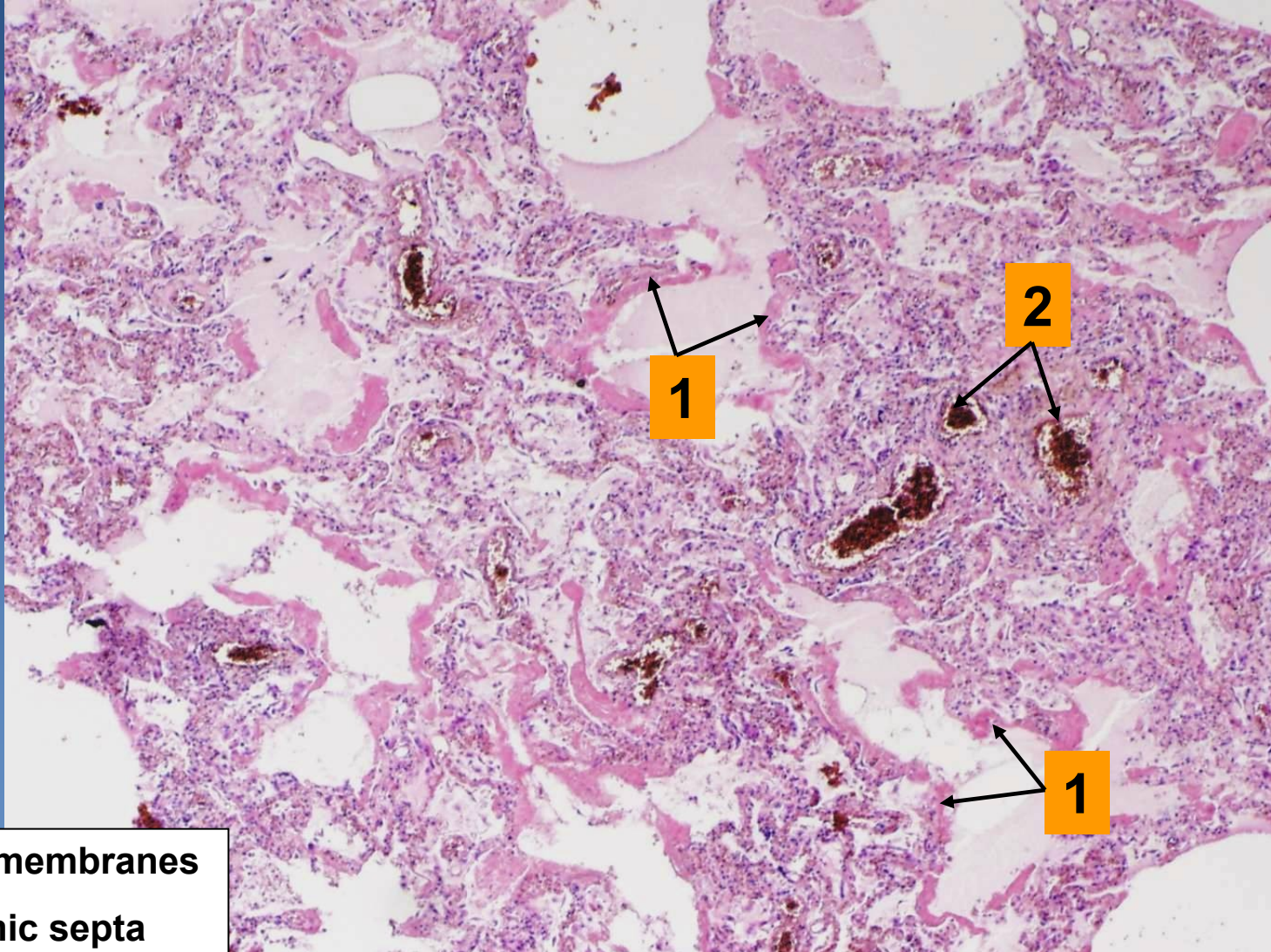
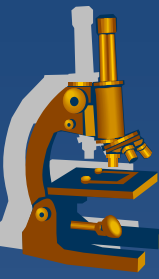
# 26. Amniotic fluid aspiration



1 Masses of keratin



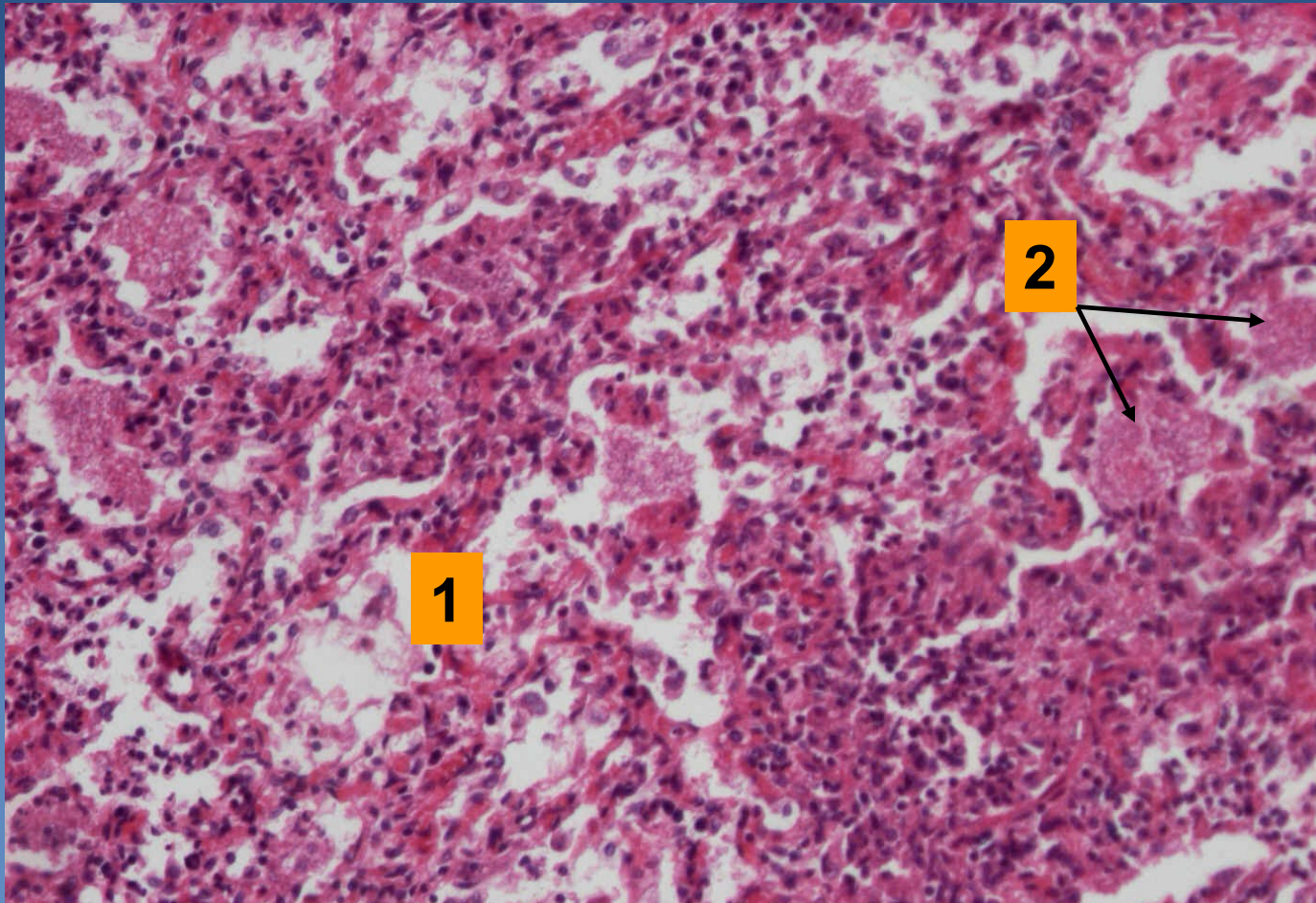
# 27. Diffuse alveolar damage (DAD/ARDS)



1 Hyaline membranes  
2 Hyperemic septa



# 28. *Pneumocystis pneumonia*

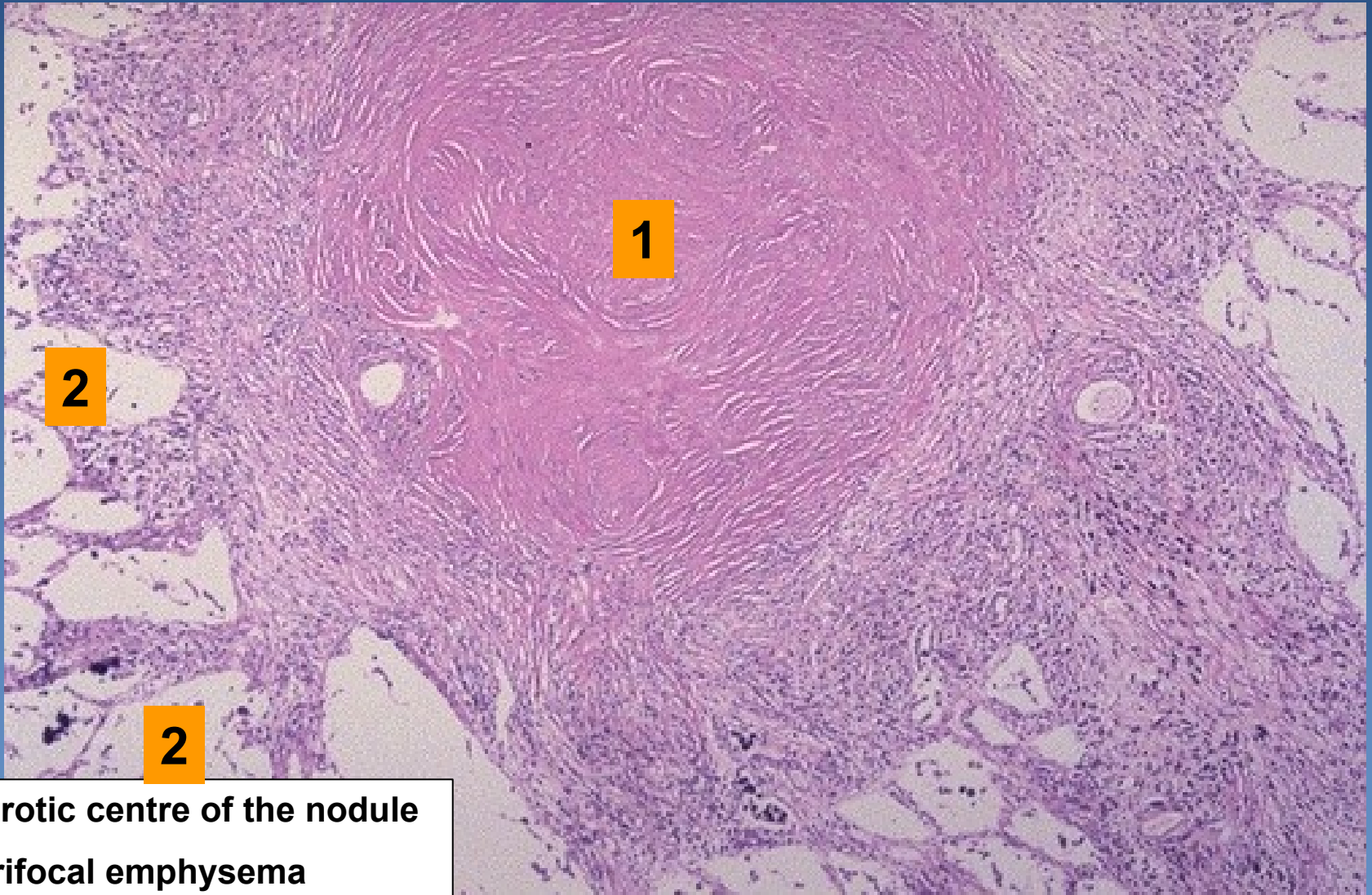
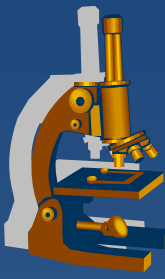


1 Alveolar walls filled with monocellular infiltration

2 Bubbly eosinophilic material

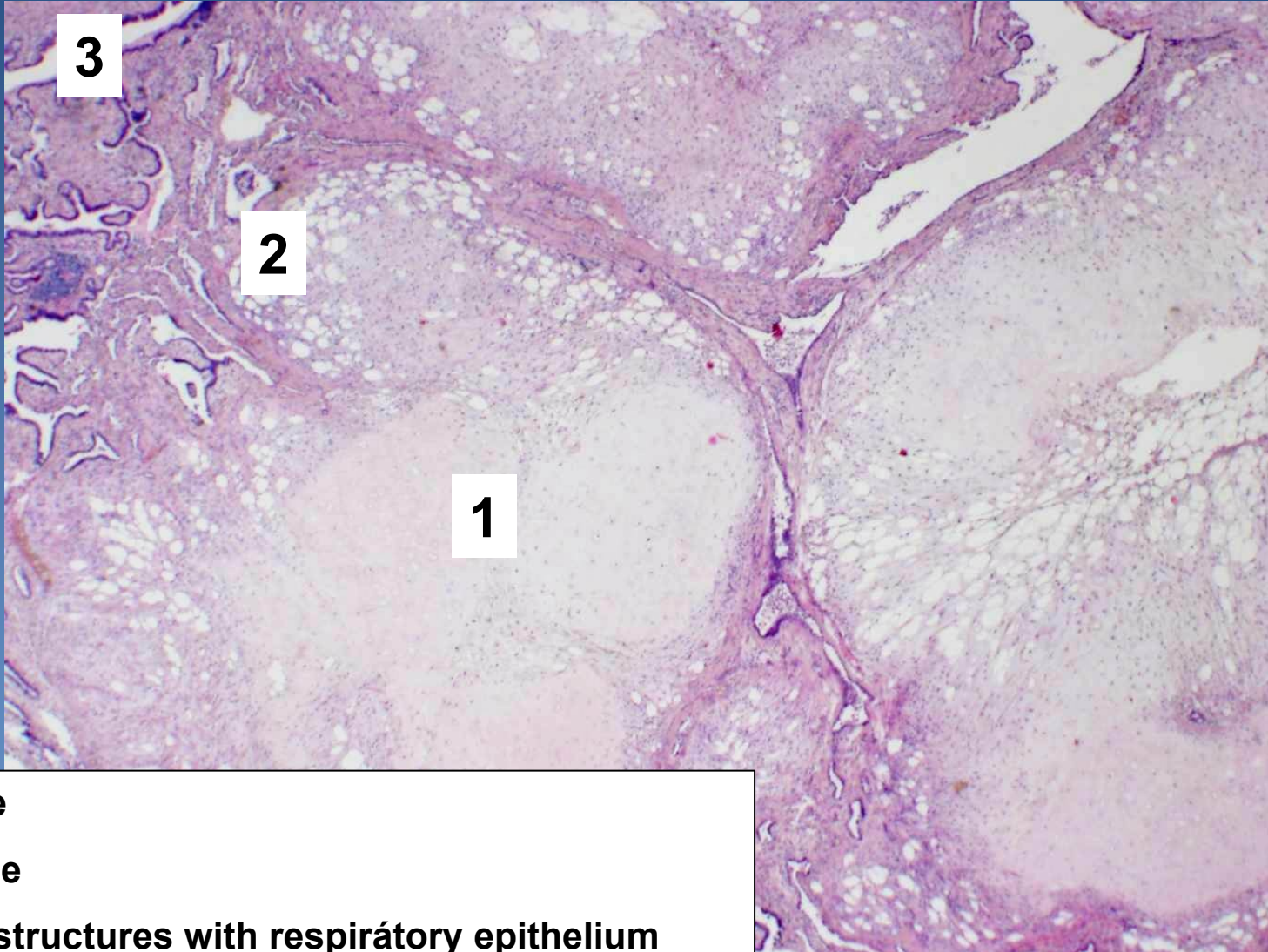


# 29. Silicosis of lungs



- 1 Fibrotic centre of the nodule
- 2 Perifocal emphysema

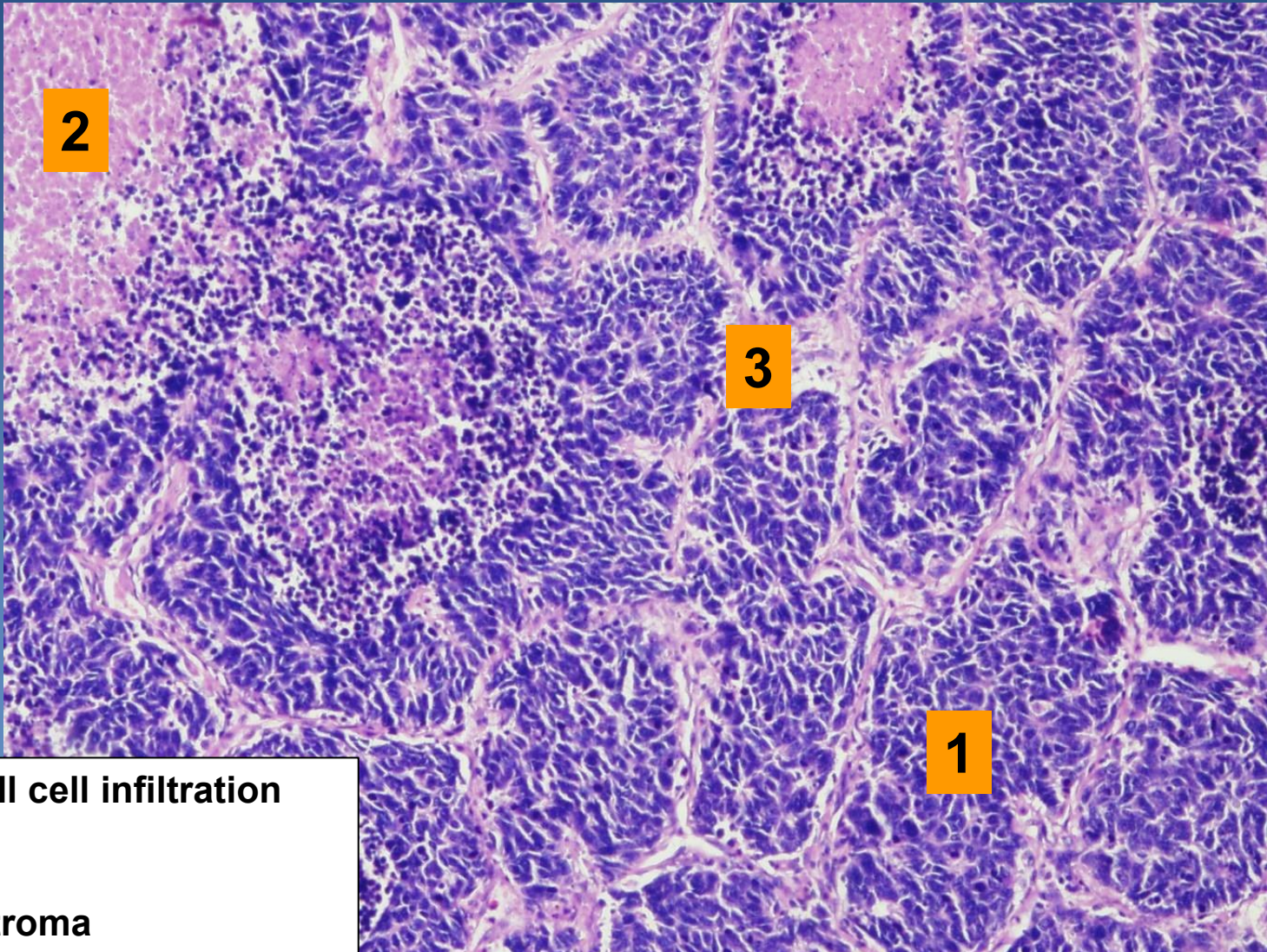
# 30. Pulmonary chondrohamartoma



- 1 Cartilage
- 2 Fat tissue
- 3 Tubular structures with respiratory epithelium

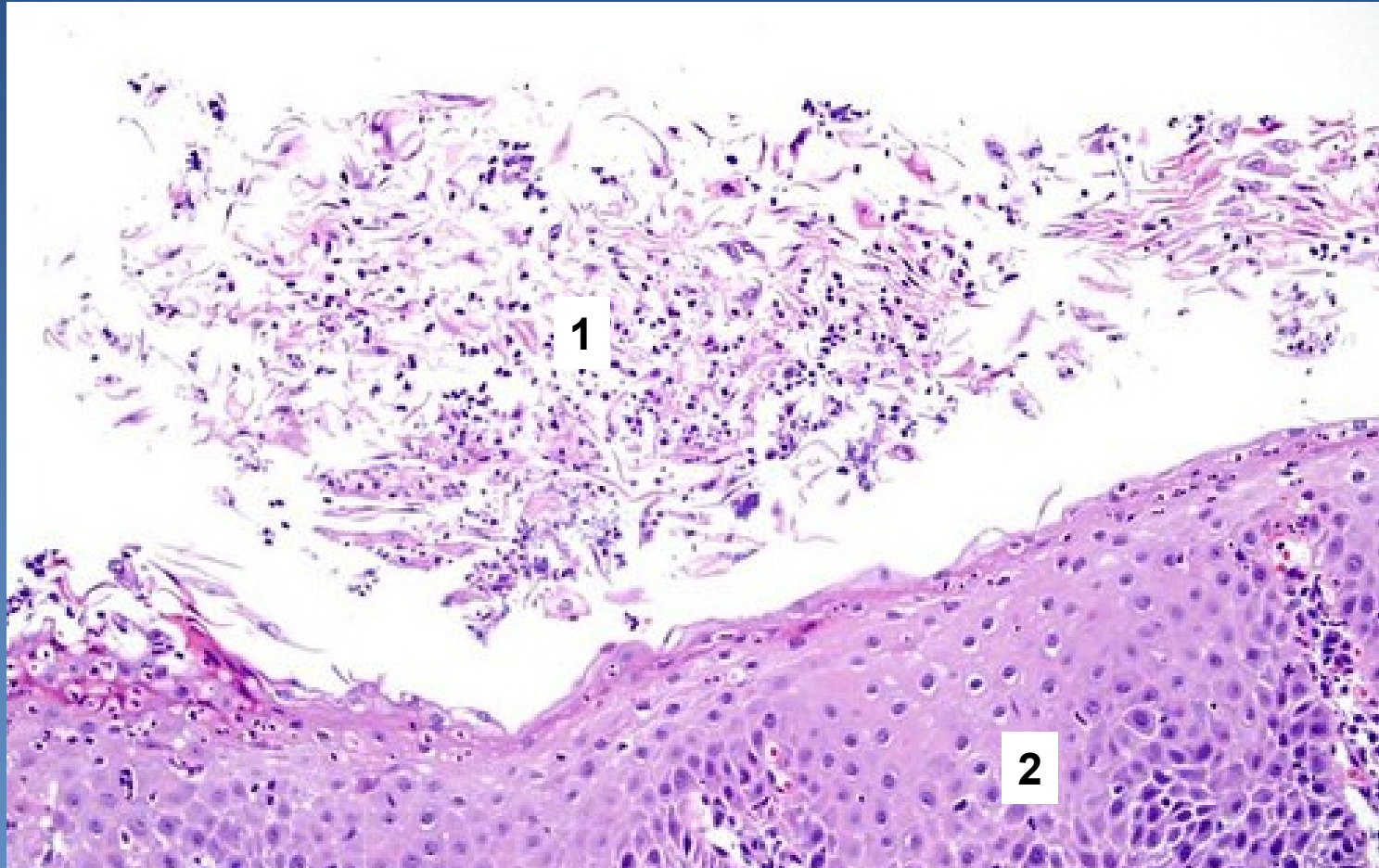


# 31. *Small-cell lung carcinoma*



- 1 Solid small cell infiltration
- 2 Necrosis
- 3 Fibrous stroma

# 32. *Mycotic oesophagitis*

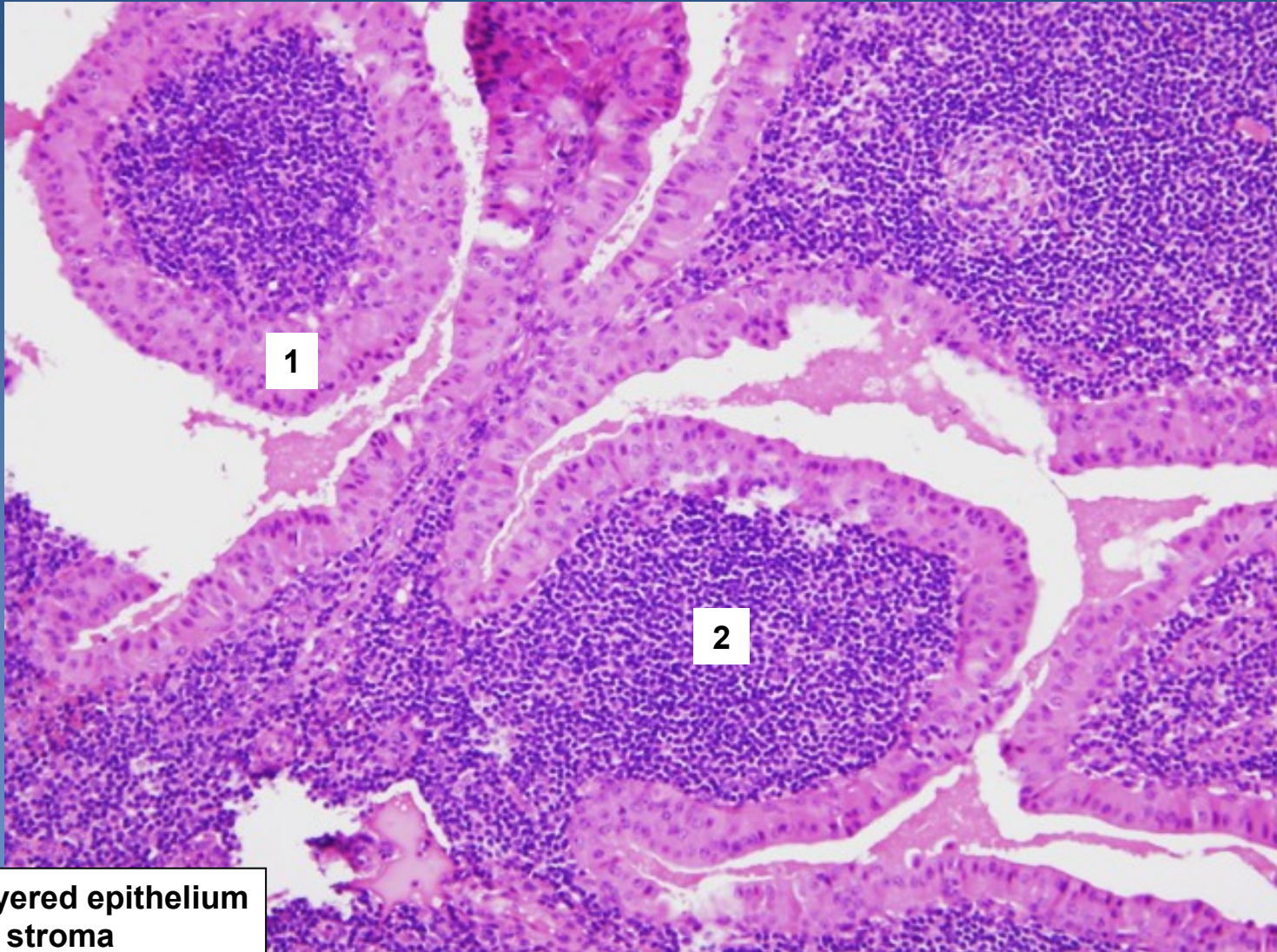


**1 Superficial necrotic mucosa (mixed inflammatory infiltrate with a fungal hyphae)**

**2 Squamous epithelium of the esophagus**



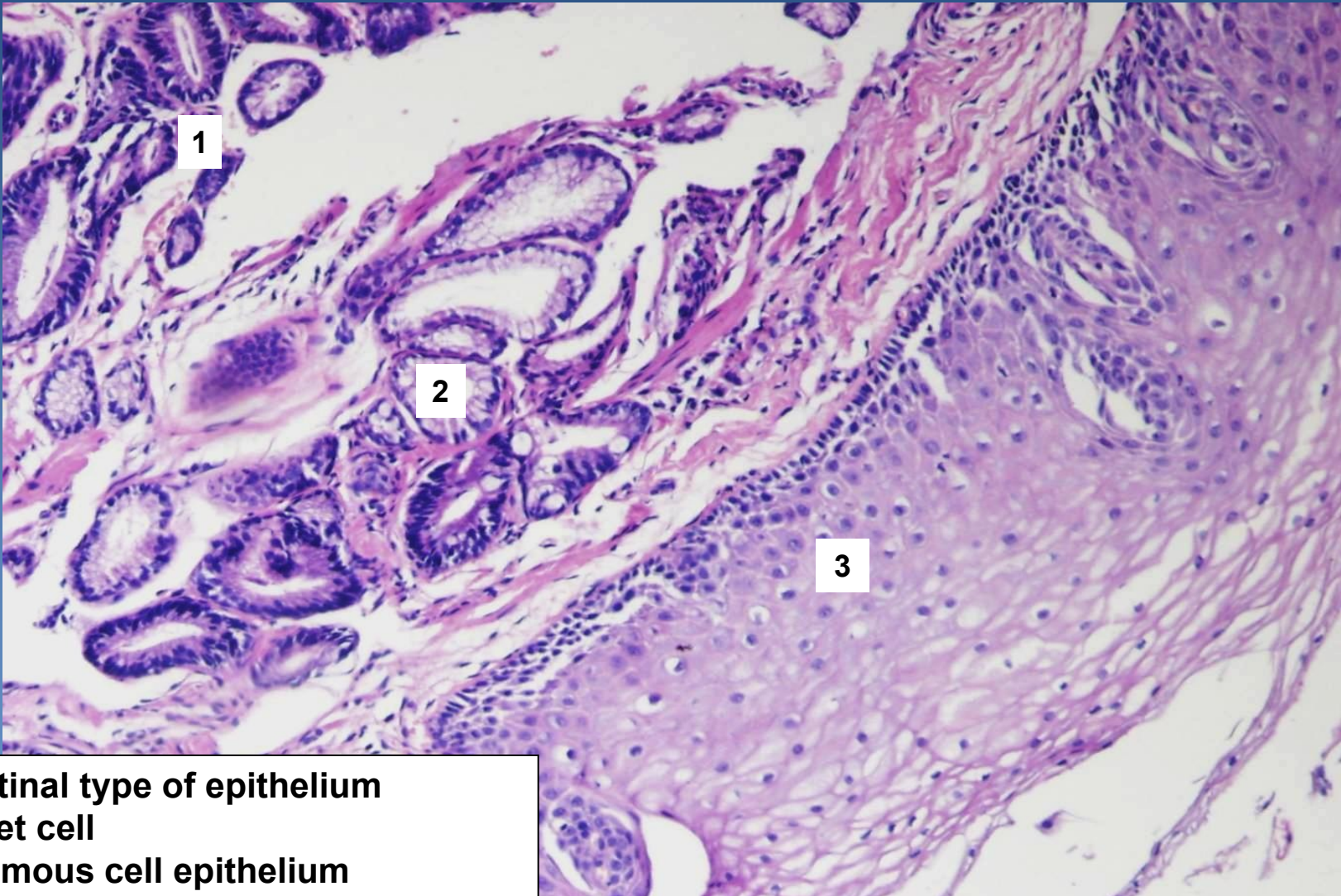
# 33. Warthin's tumor (cystadenolymphoma)



1 Double-layered epithelium  
2 Lymphoid stroma



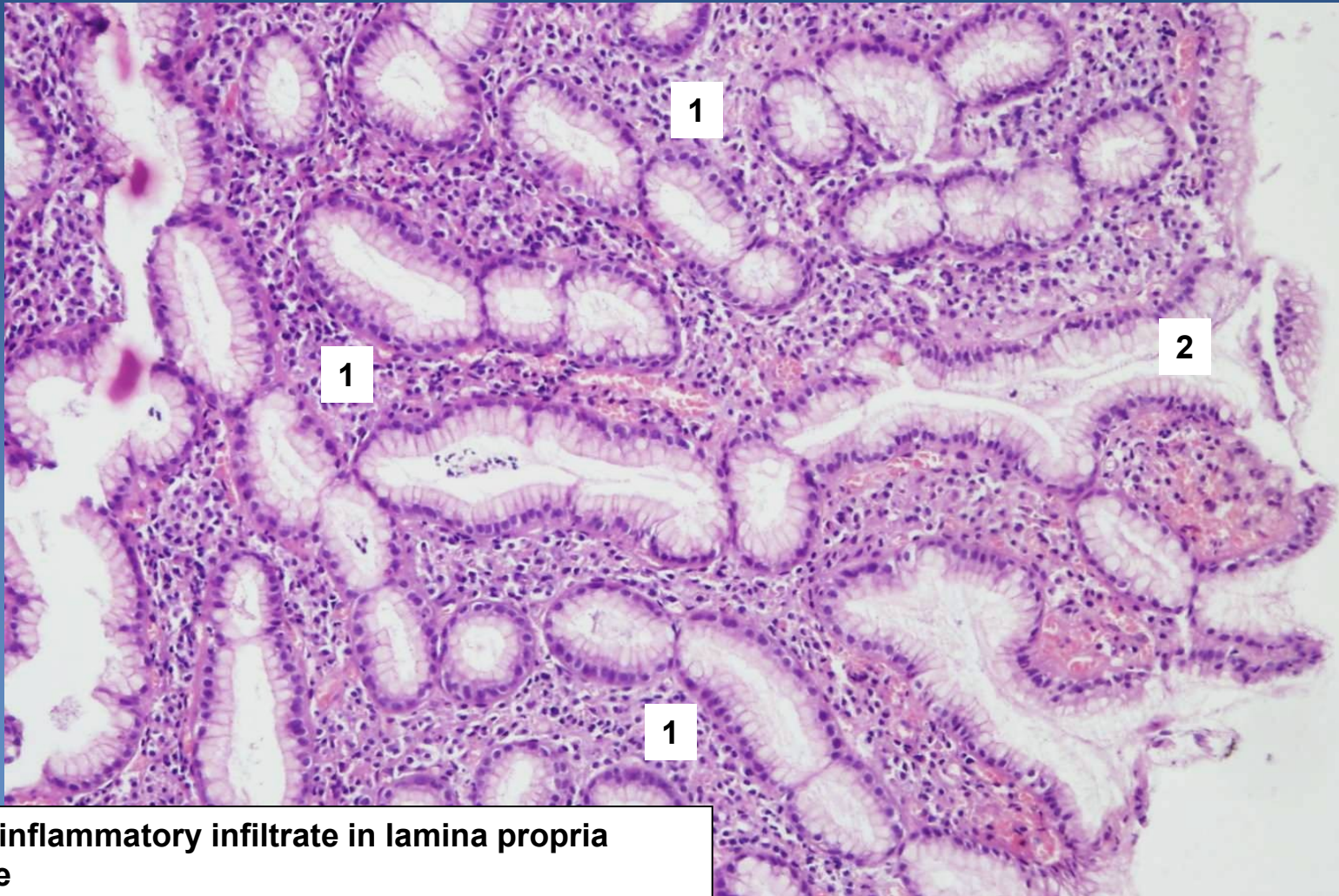
# 34. Barrett's oesophagus



**1 Intestinal type of epithelium**  
**2 Goblet cell**  
**3 Squamous cell epithelium**



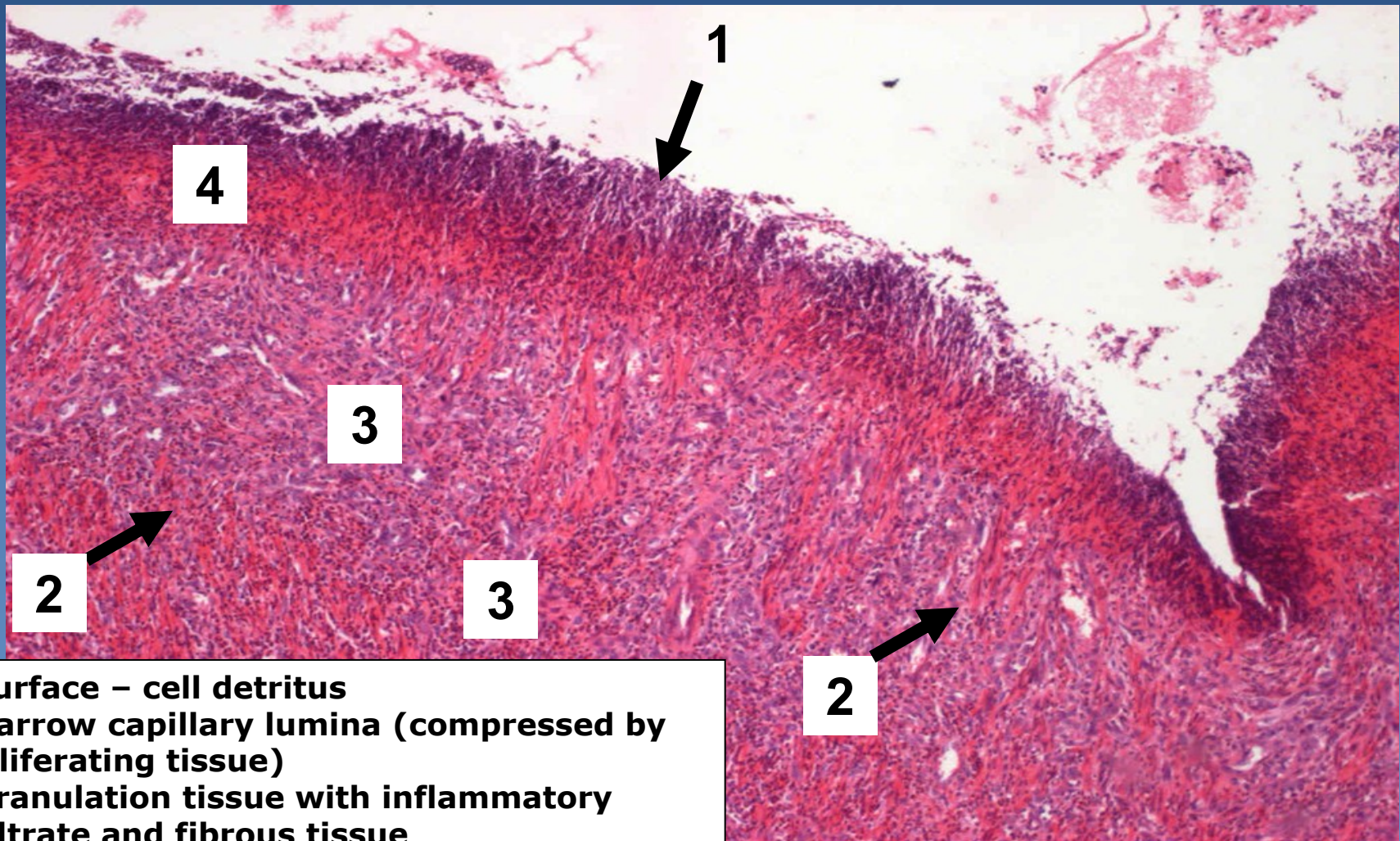
# 35. Chronic non-atrophic gastritis, associated with HP



**1 Mixed inflammatory infiltrate in lamina propria mucosae**  
**2 Gastric pit**



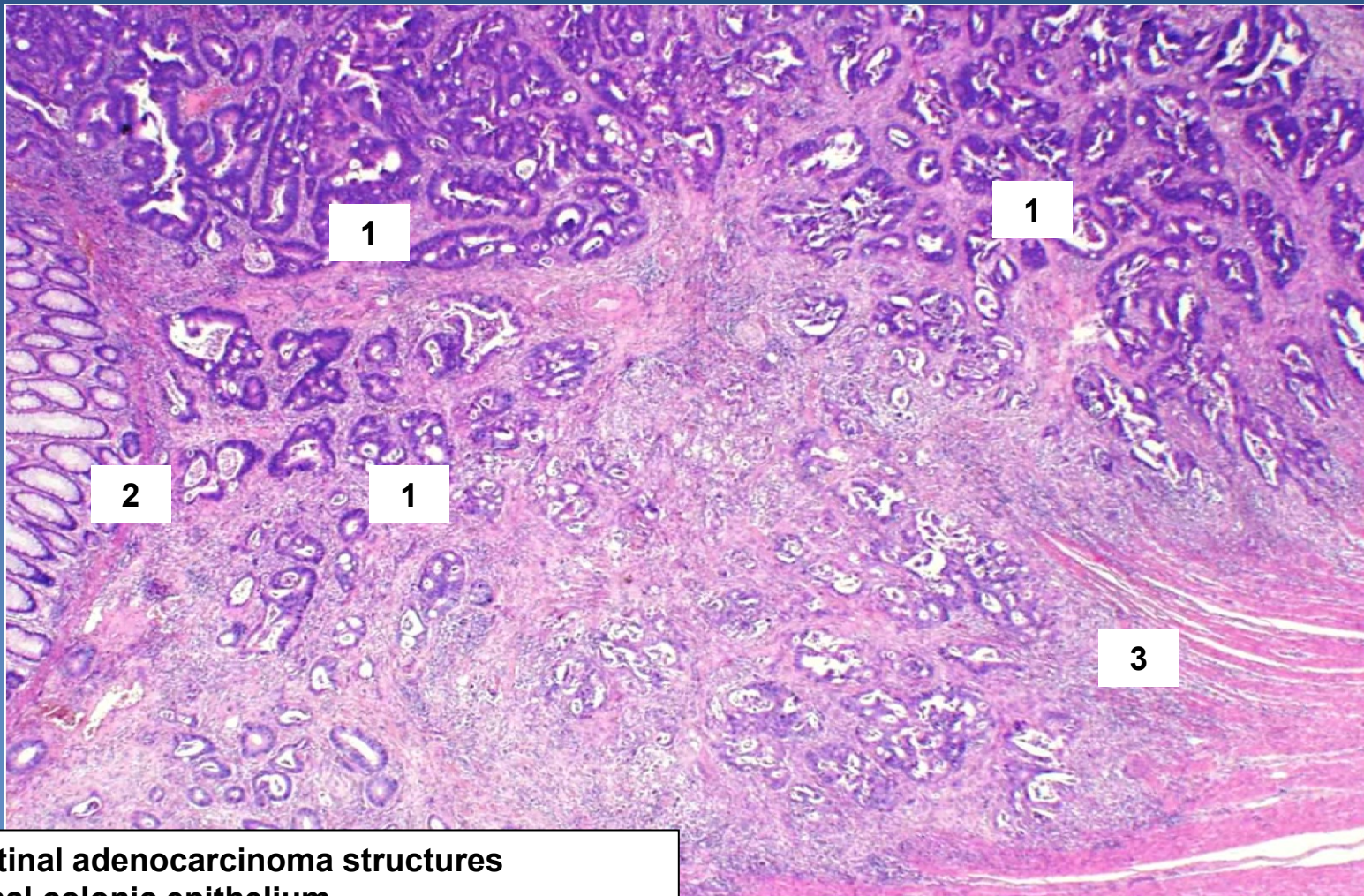
# 36. Chronic peptic ulcer of the stomach



**1 surface – cell detritus**  
**2 narrow capillary lumina (compressed by proliferating tissue)**  
**3 granulation tissue with inflammatory infiltrate and fibrous tissue**  
**4 fibrinoid necrosis**



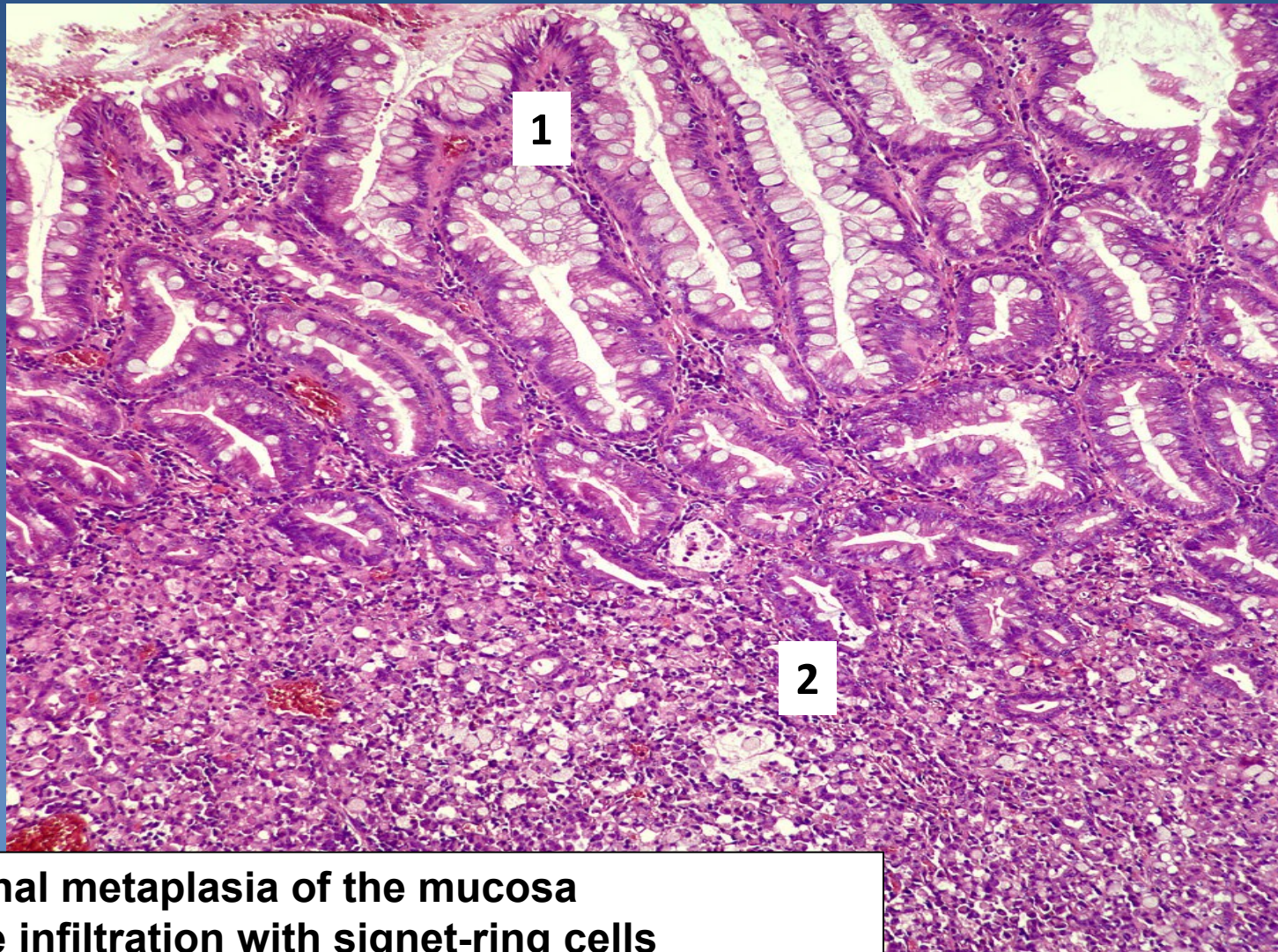
# 37. Adenocarcinoma of the colon (intestinal type)



- 1 Intestinal adenocarcinoma structures
- 2 Normal colonic epithelium
- 3 Muscularis propria



# 38. Gastric adenocarcinoma (diffuse type)



- 1 Intestinal metaplasia of the mucosa
- 2 Diffuse infiltration with signet-ring cells



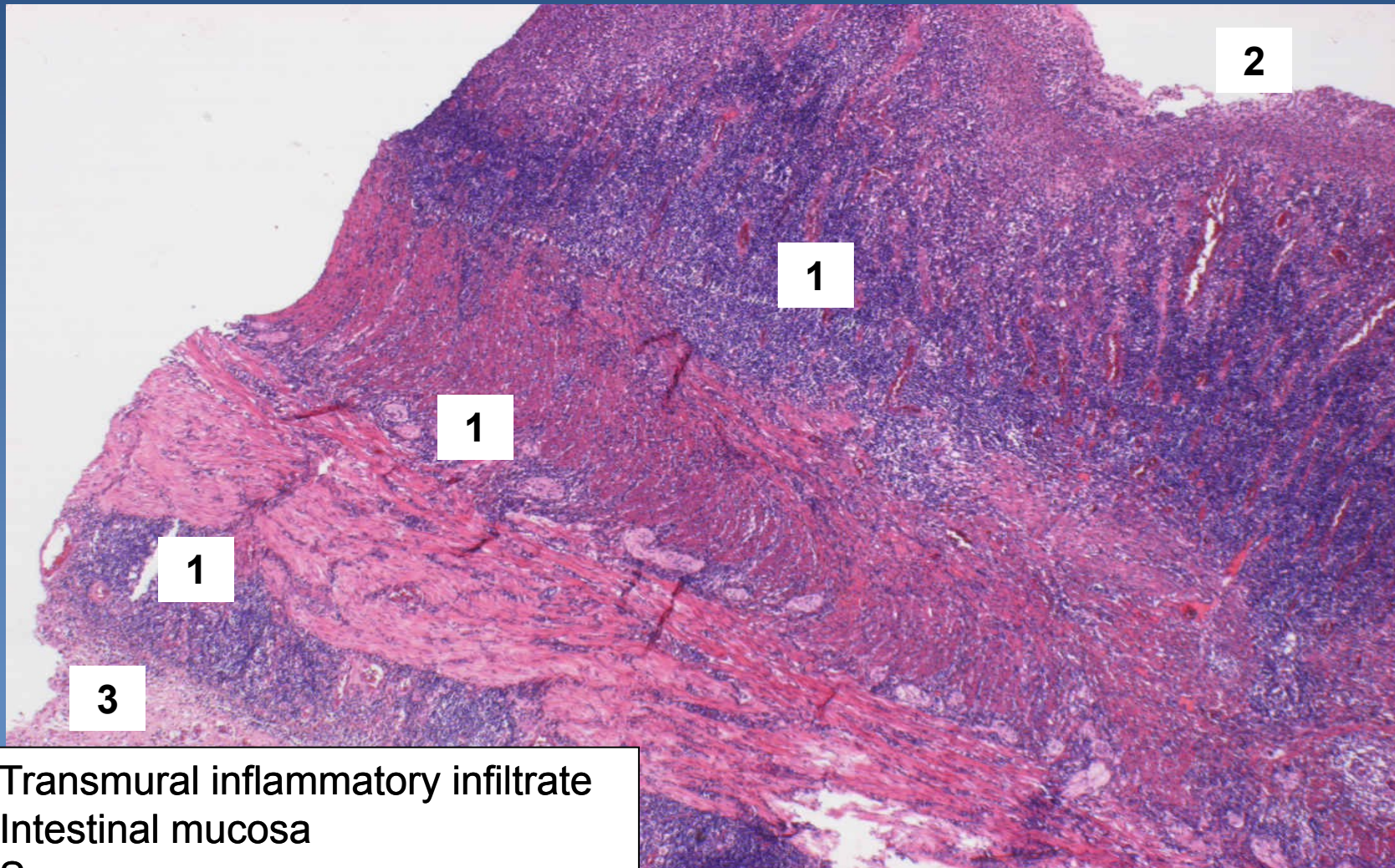
# 39. GIST



**1 Spindle-cell type of GIST, low-malignant**  
**2 Oesophageal wall**



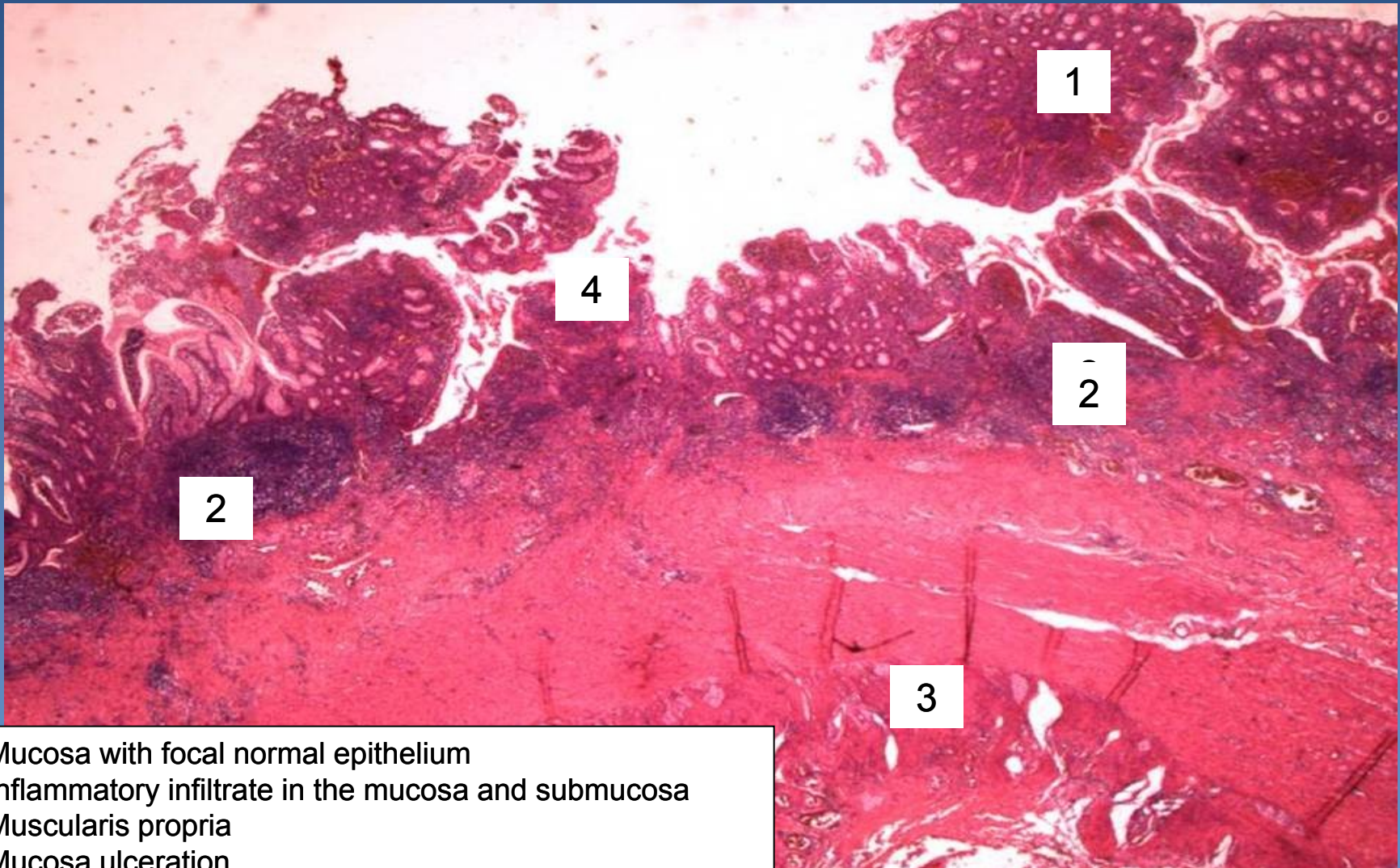
# 40. Crohn's disease



- 1 Transmural inflammatory infiltrate
- 2 Intestinal mucosa
- 3 Serosa



# 41. *Ulcerative colitis* (*superficial inflammatory infiltrate*)



1

4

2

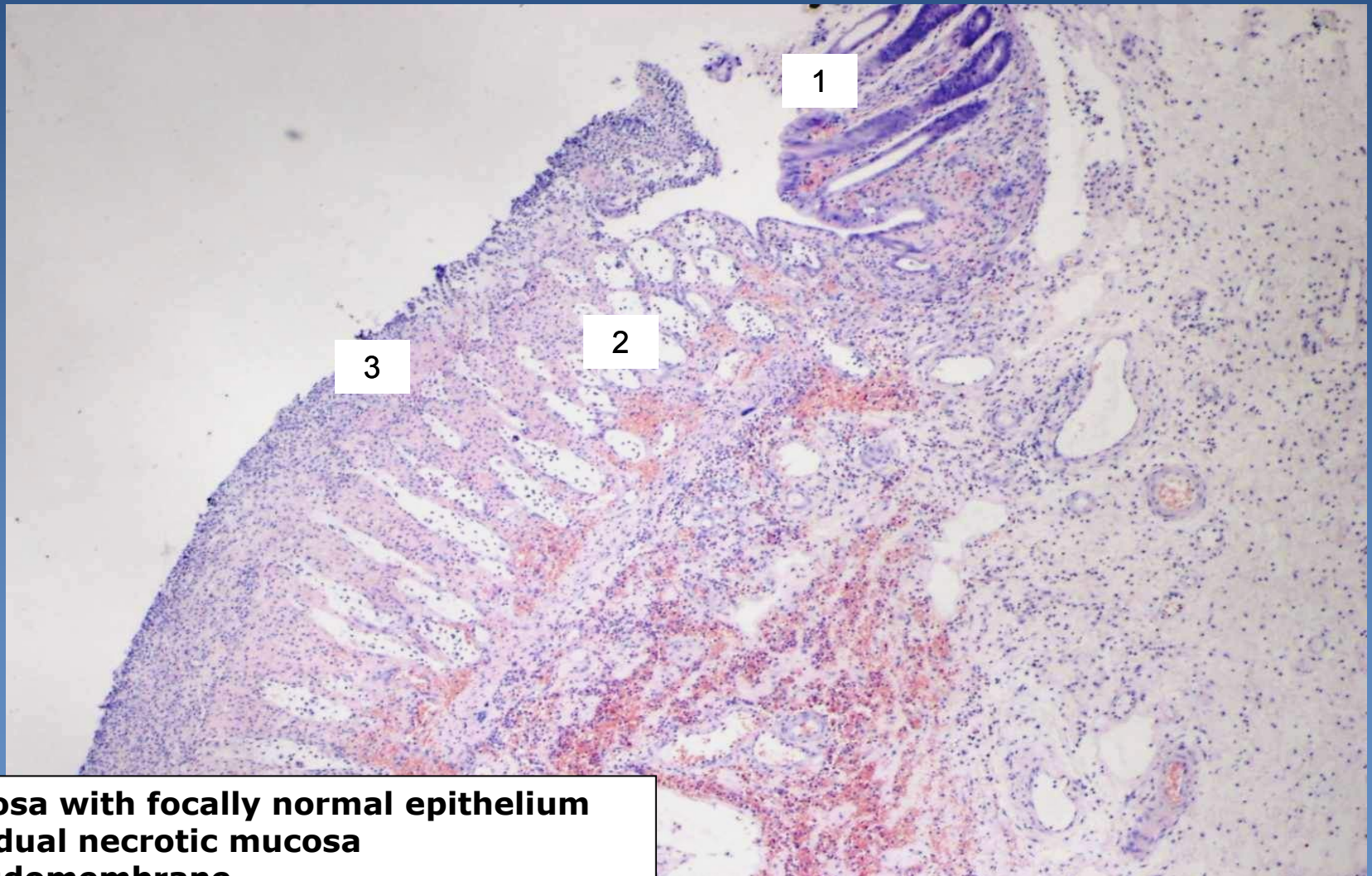
2

3

- 1 Mucosa with focal normal epithelium
- 2 Inflammatory infiltrate in the mucosa and submucosa
- 3 Muscularis propria
- 4 Mucosa ulceration



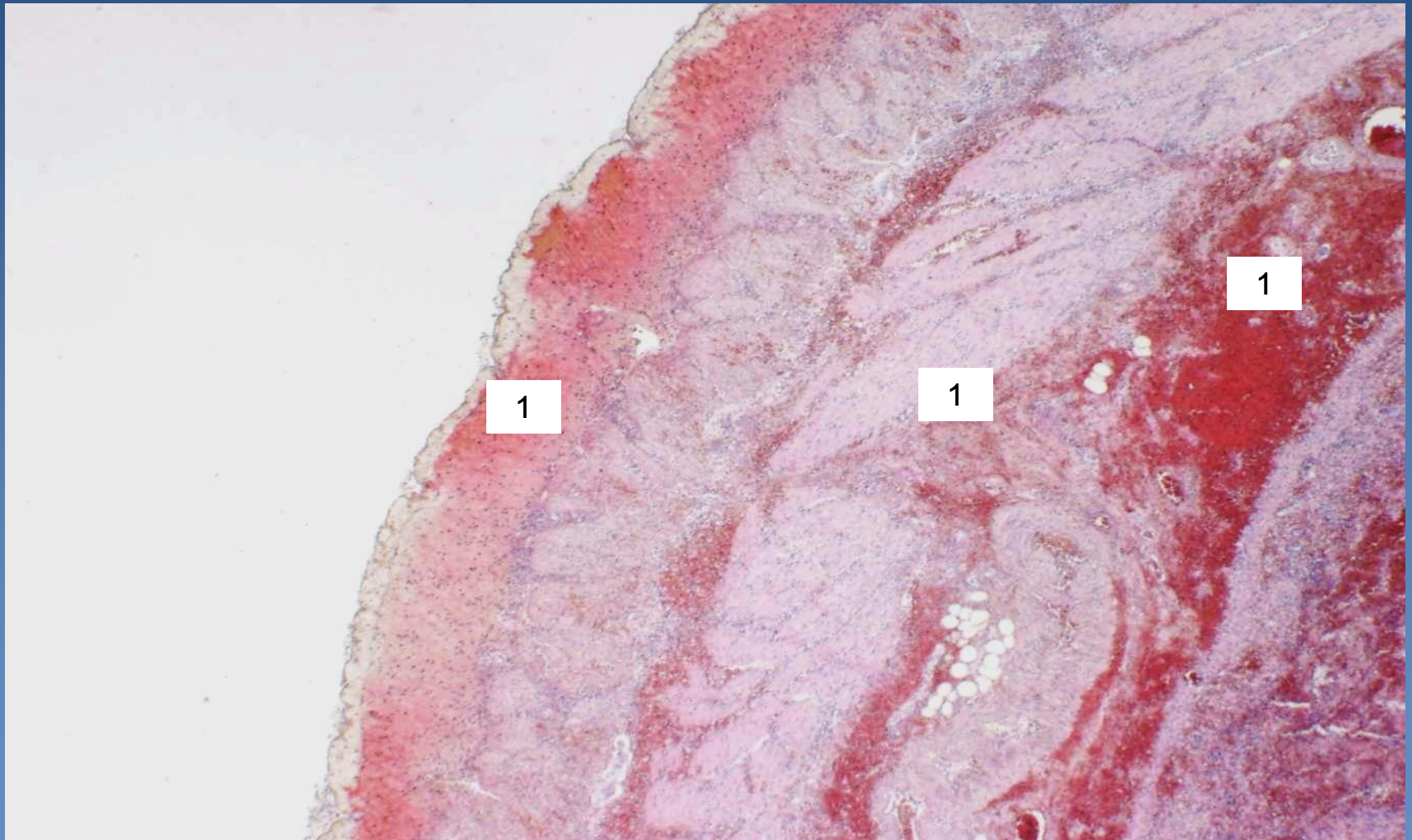
# 42. Pseudomembranous colitis



**1 Mucosa with focally normal epithelium**  
**2 Residual necrotic mucosa**  
**3 Pseudomembrane**



# 43. Hemorrhagic infarction of the intestine



1 Complete transmural hemorrhagic necrosis of the intestinal wall



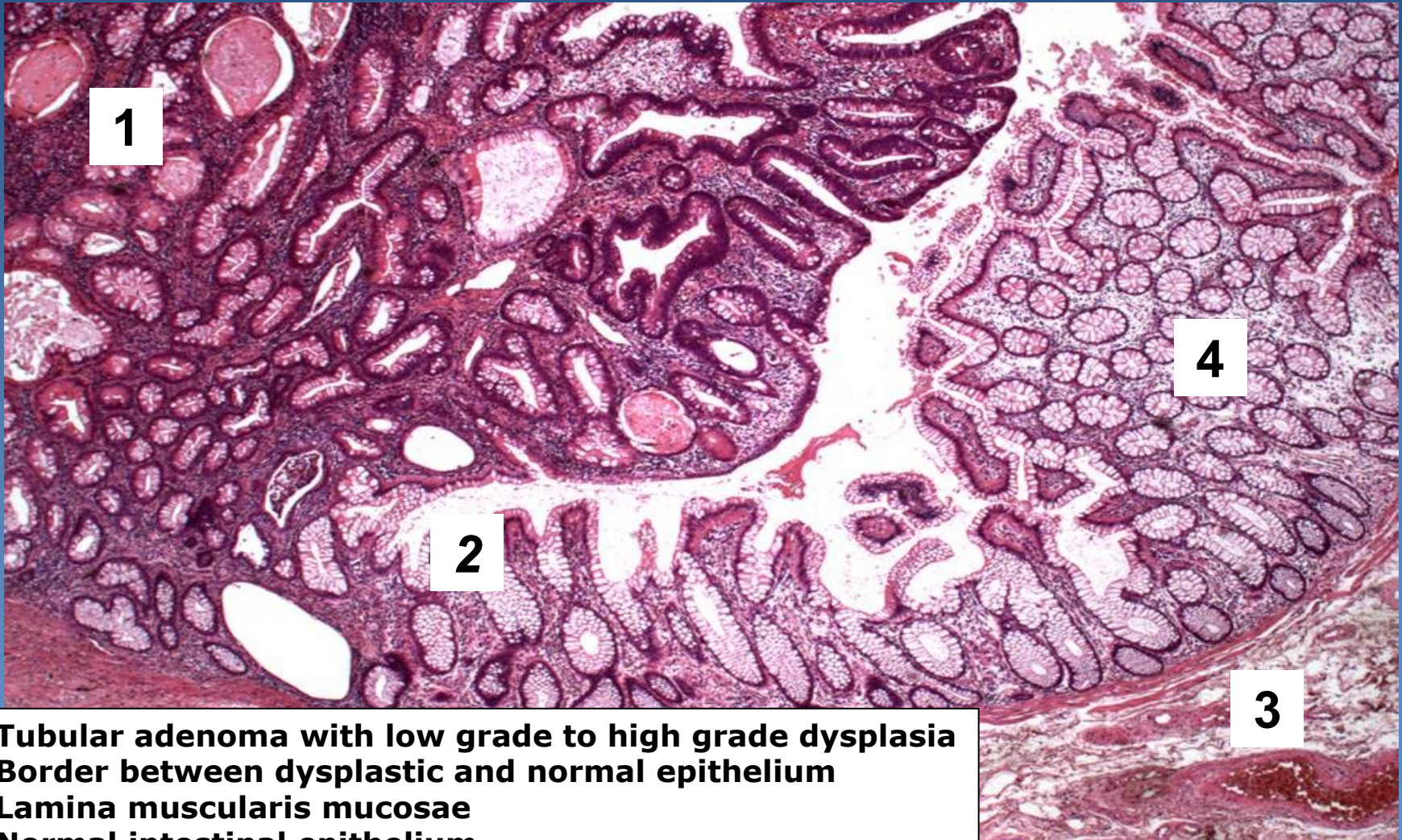
# 44. Hyperplastic polyp of colon



- 1 Hyperplastic serrated epithelium
- 2 Enterocytes
- 3 Goblet cells



# 45. Tubular adenoma of colon with high-grade epithelial dysplasia



1

2

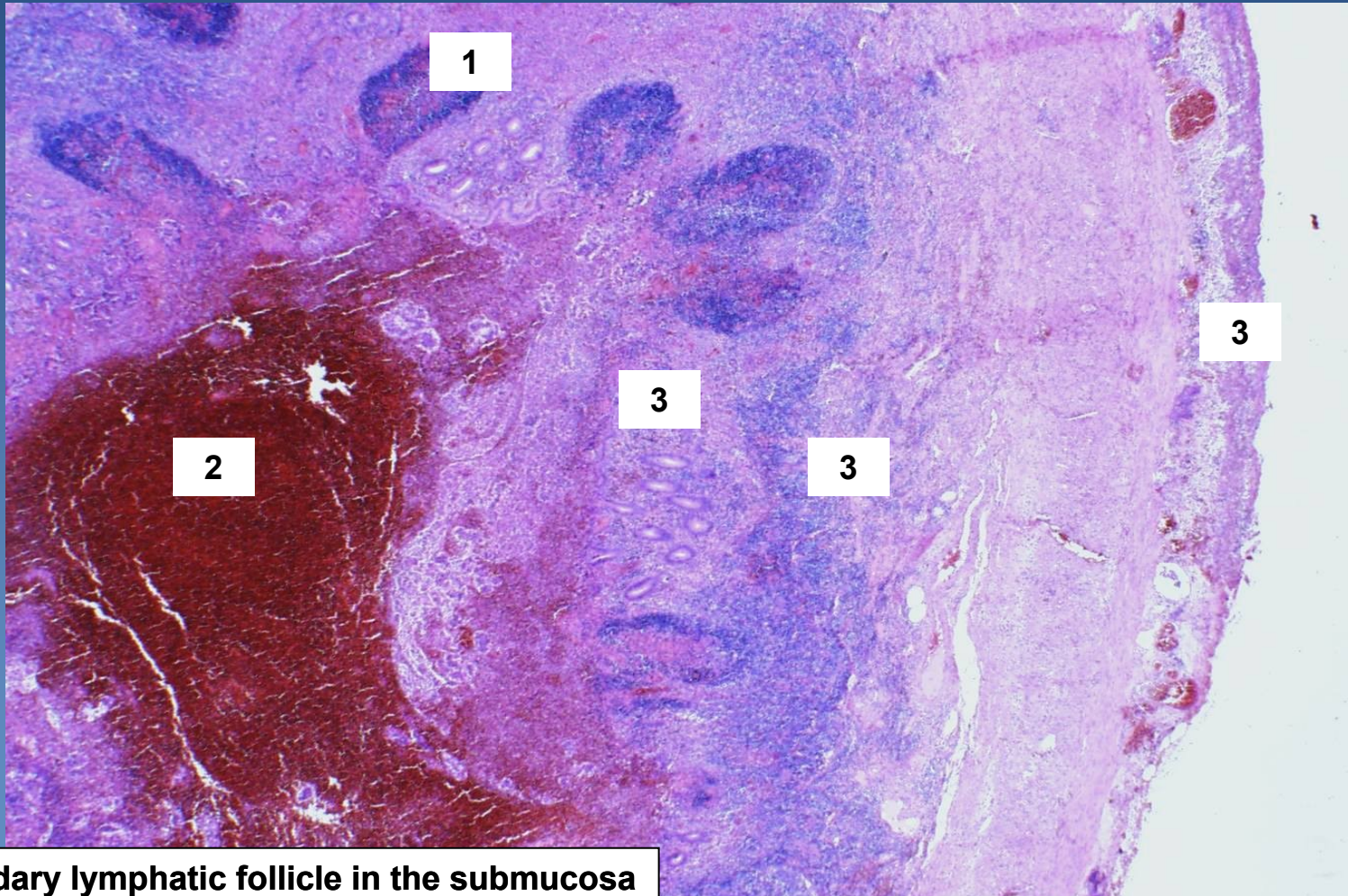
4

3

- 1 Tubular adenoma with low grade to high grade dysplasia
- 2 Border between dysplastic and normal epithelium
- 3 Lamina muscularis mucosae
- 4 Normal intestinal epithelium



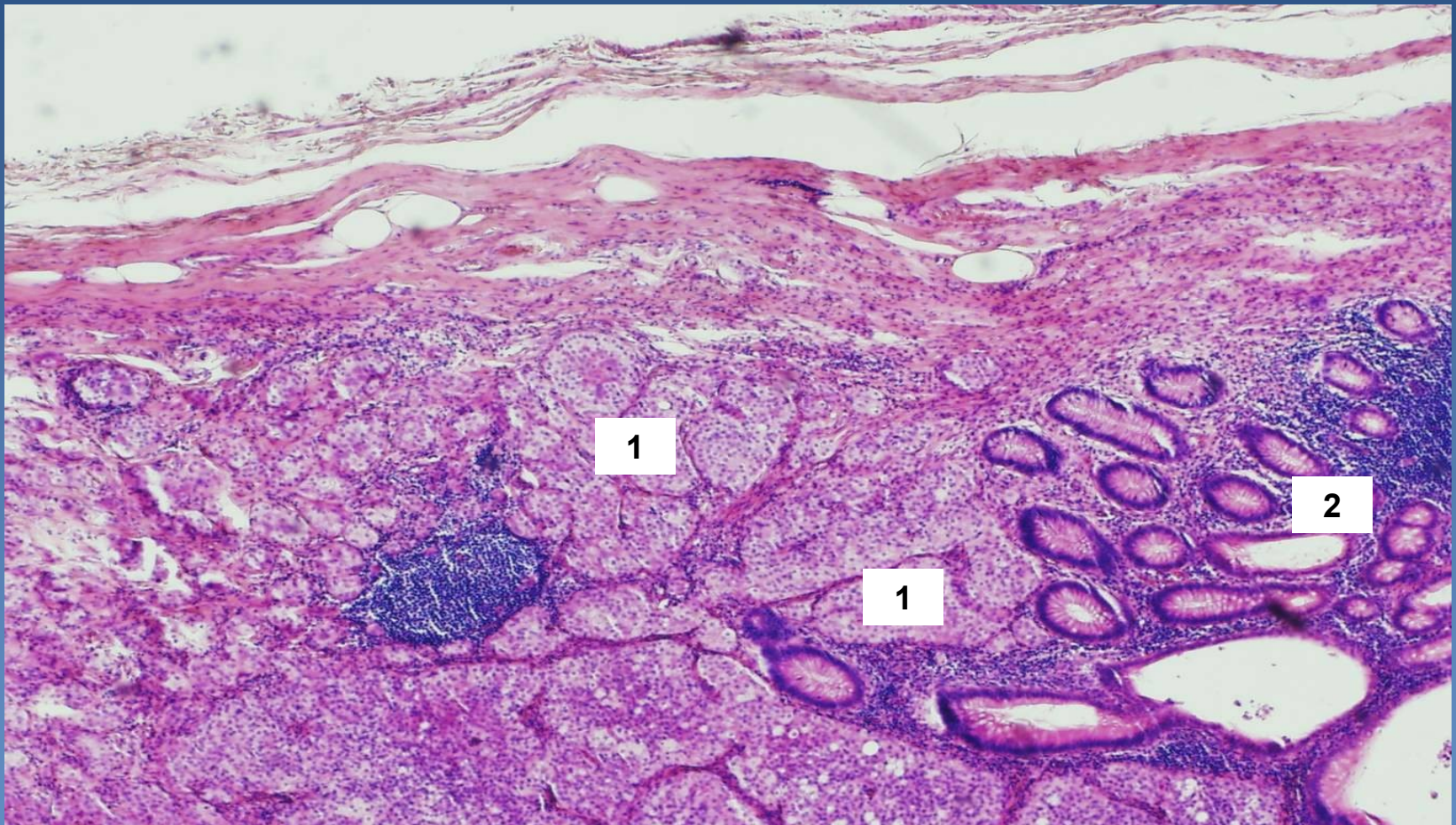
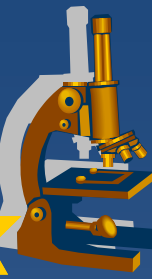
# 46. *Phlegmonous appendicitis*



- 1 Secondary lymphatic follicle in the submucosa
- 2 Intraluminal hemorrhage
- 3 Inflammatory infiltrate



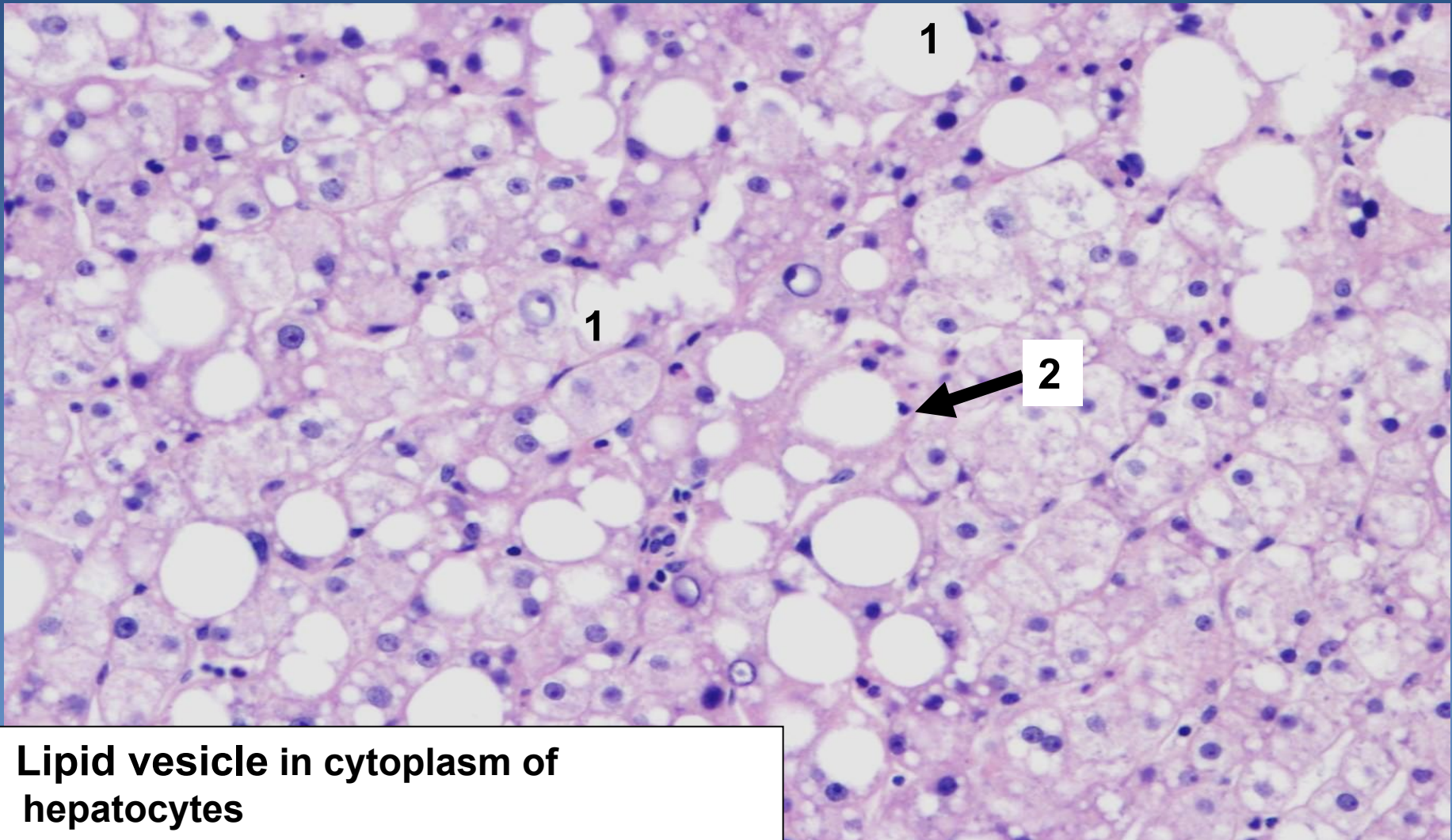
# 47. Neuroendocrine tumor (carcinoid) of the appendix



**1** Trabecular/glandular neoplastic structures, cells with clear cytoplasm and round/oval-shaped nuclei  
**2** Appendiceal mucosa



# 48. Steatosis of liver

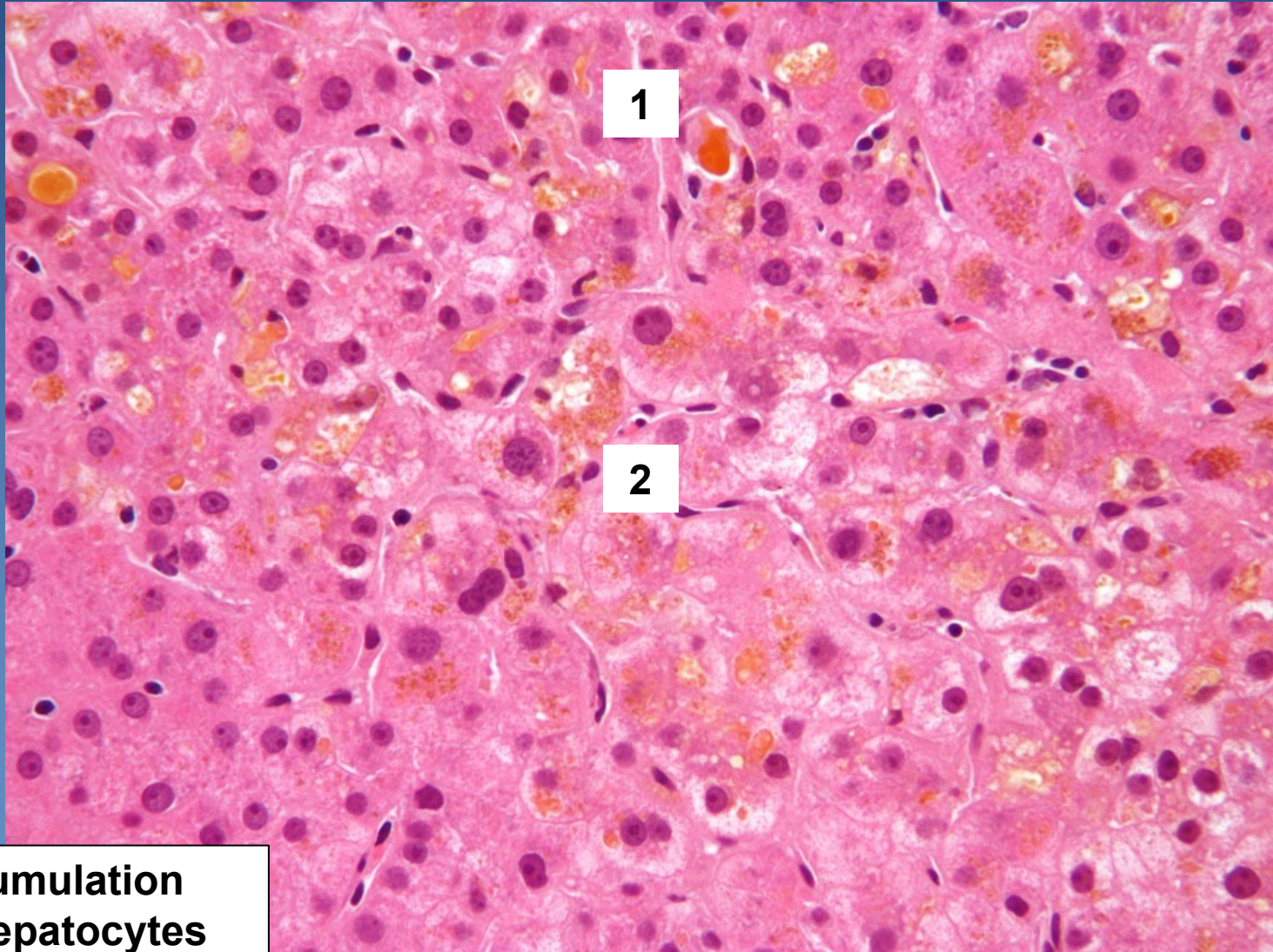


1 Lipid vesicle in cytoplasm of hepatocytes

2 Hepatocyte nucleus pushed to periphery



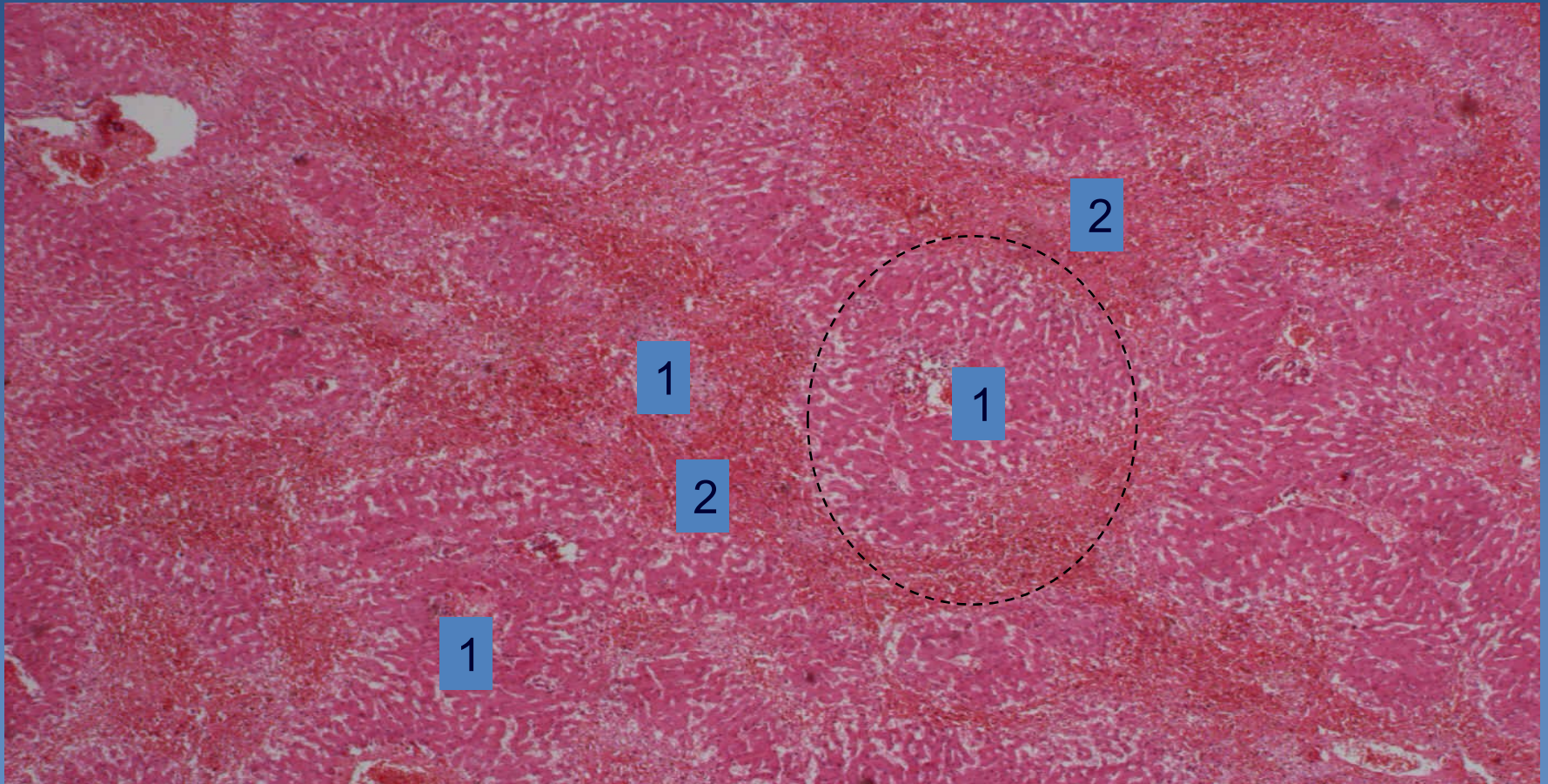
# 49. Cholestasis of liver



**1 Bile accumulation**  
**2 Bile in hepatocytes**



# 50. Hepatic venous congestion



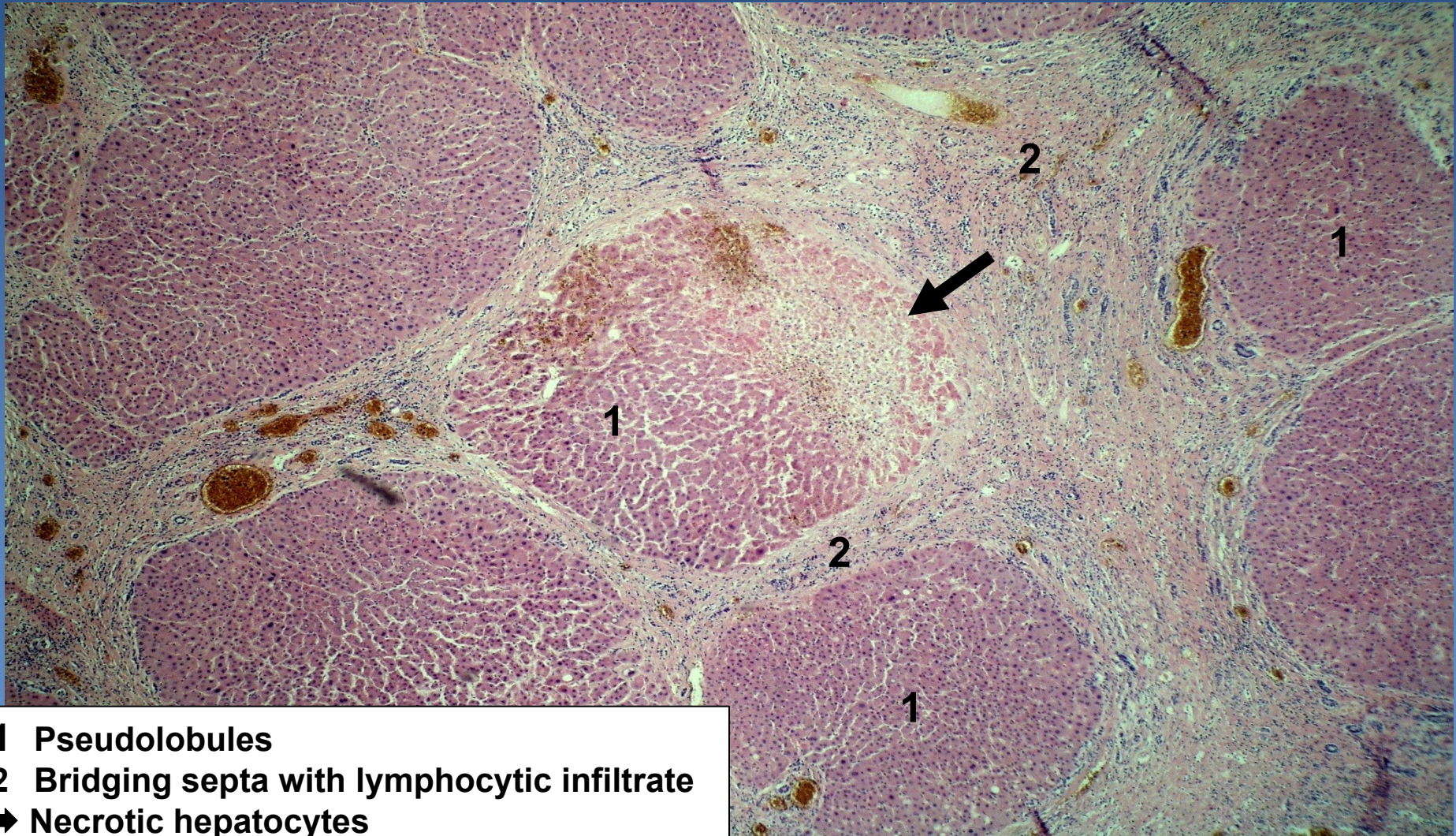
1 Portal spaces

2 Congestive lines (severe congestion with hepatocyte necrosis)

„---“ pseudolobule: confluent remnants of 3 lobules, centrally portal space



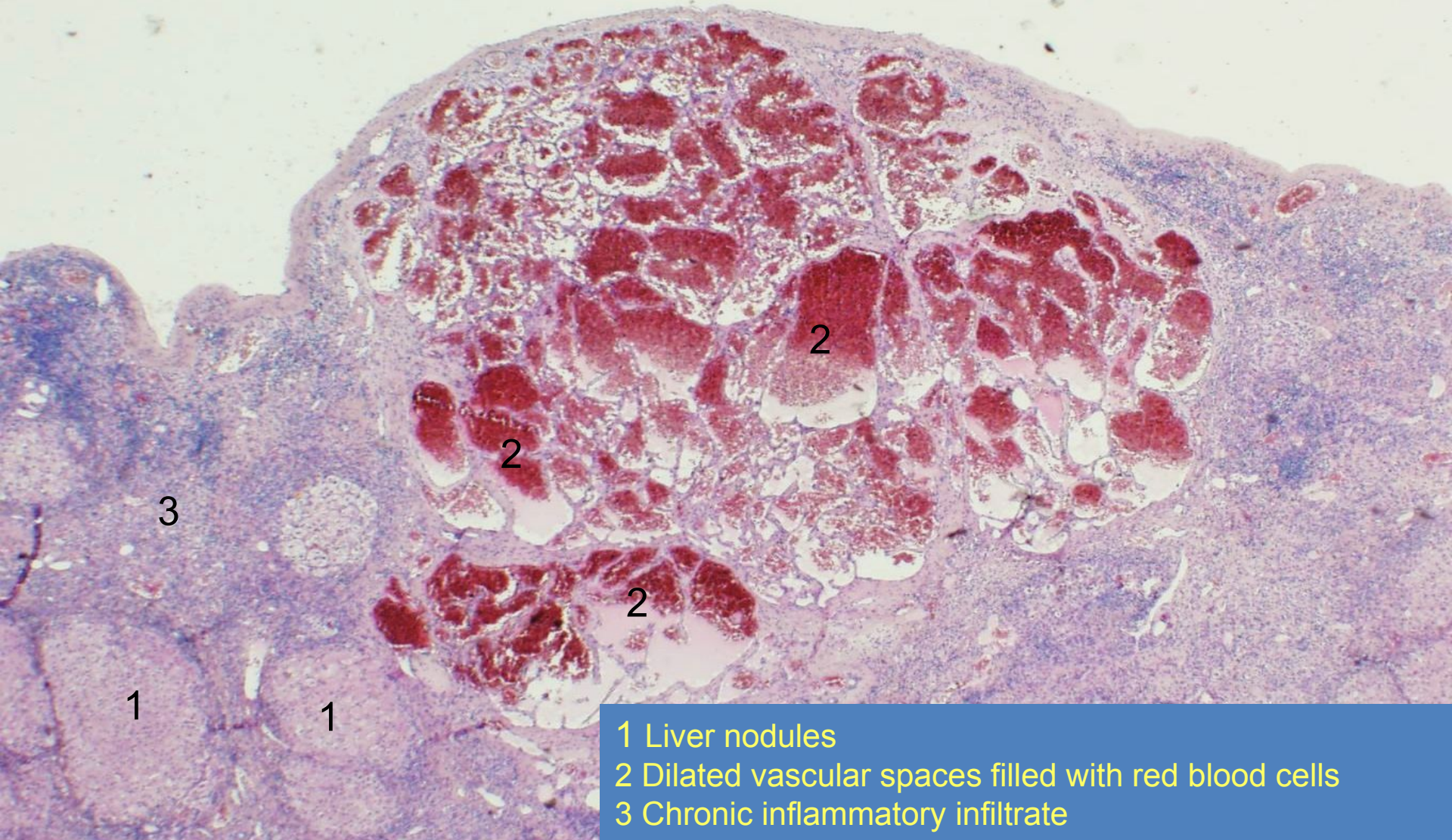
# 51. Cirrhosis of liver



- 1 Pseudolobules
- 2 Bridging septa with lymphocytic infiltrate
- ➔ Necrotic hepatocytes



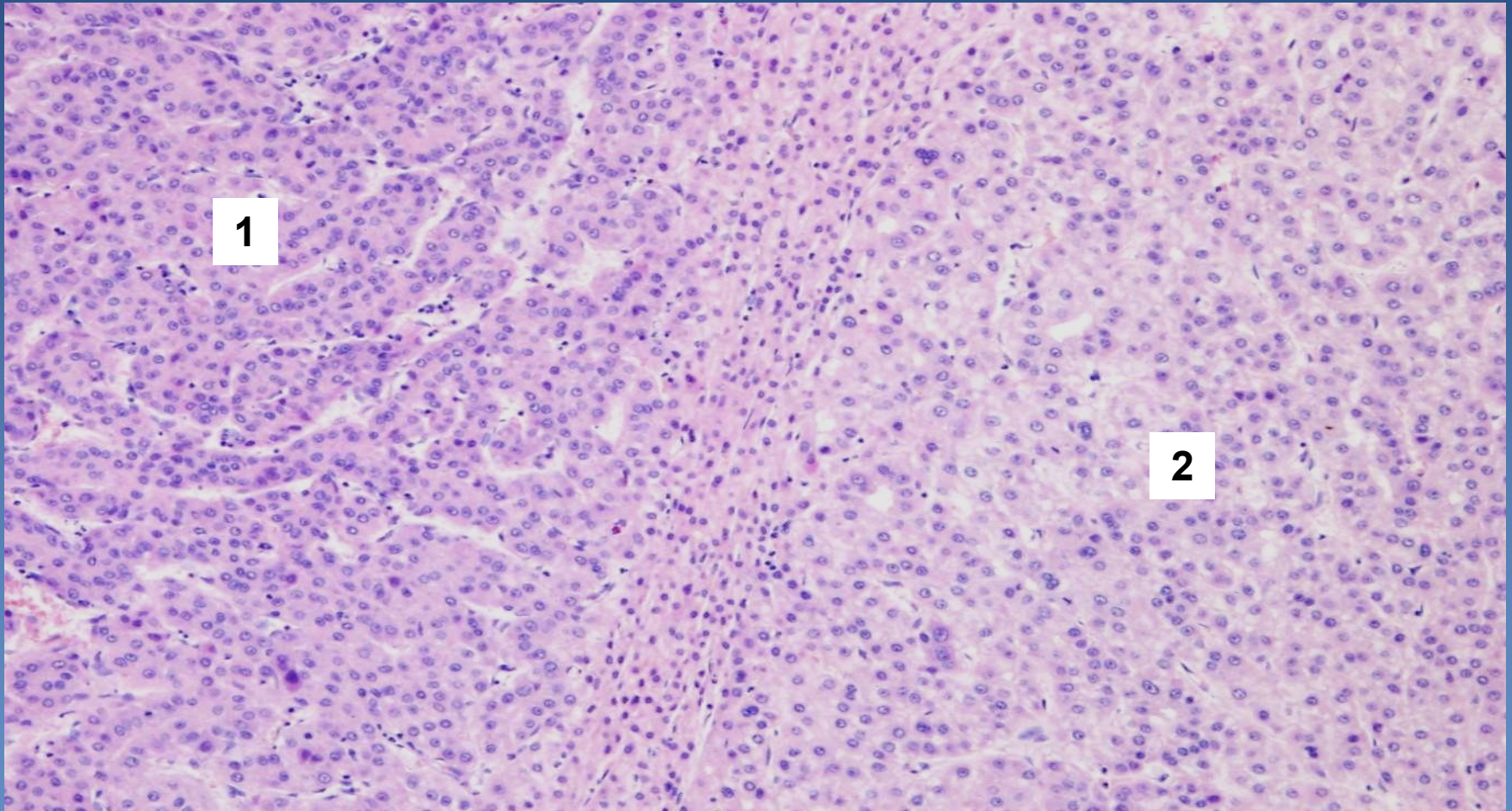
# 52. Cavernous haemangioma (in micronodular liver cirrhosis)



- 1 Liver nodules
- 2 Dilated vascular spaces filled with red blood cells
- 3 Chronic inflammatory infiltrate



# 53. Hepatocellular carcinoma

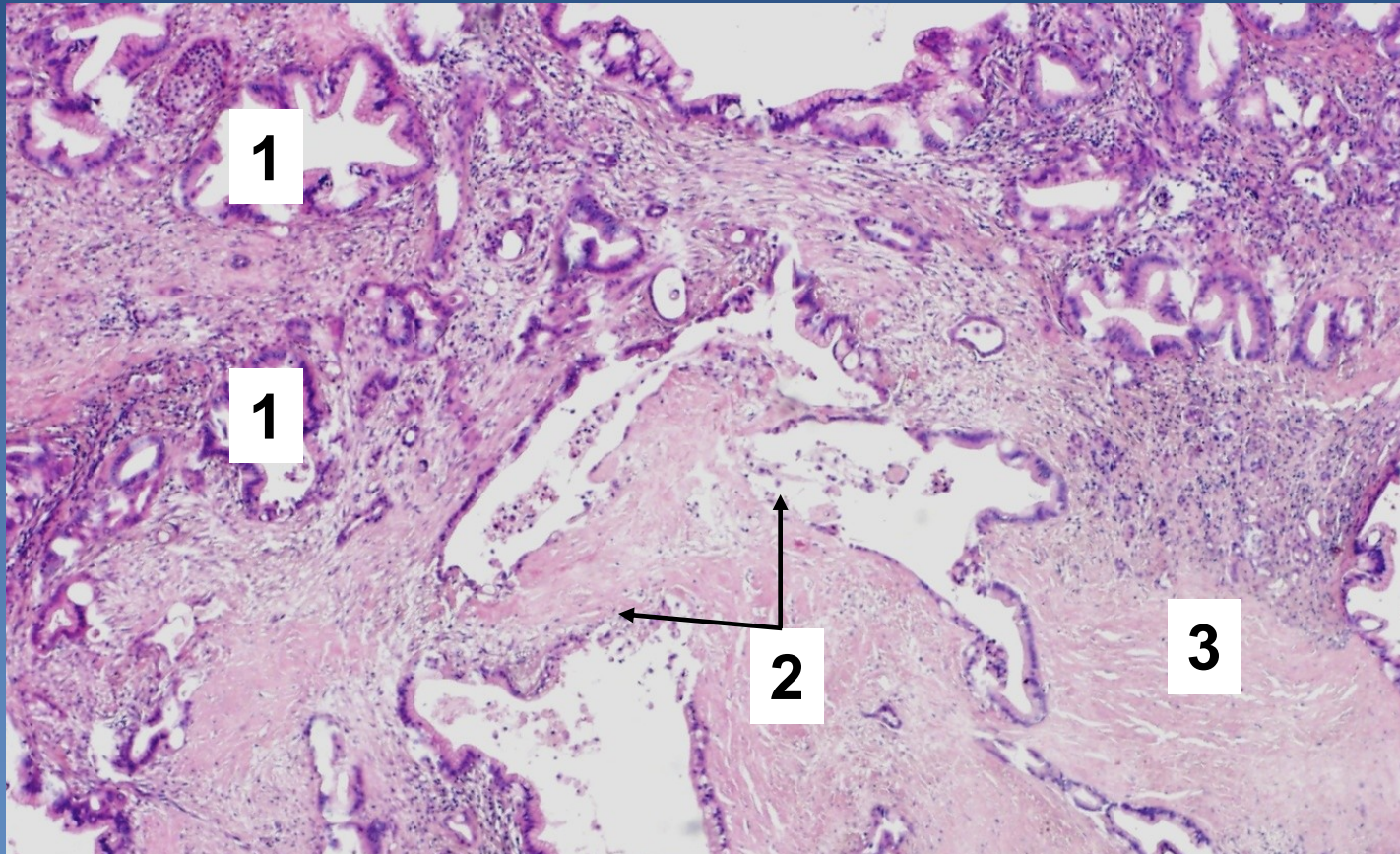


1 Normal liver parenchyma

2 Cells of hepatocellular carcinoma – in here with pale cytoplasm, trabecular structure, with atypias and increased mitotic activity

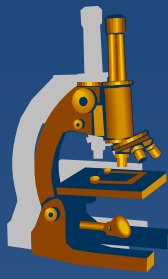


# 54. Ductal adenocarcinoma of pancreas

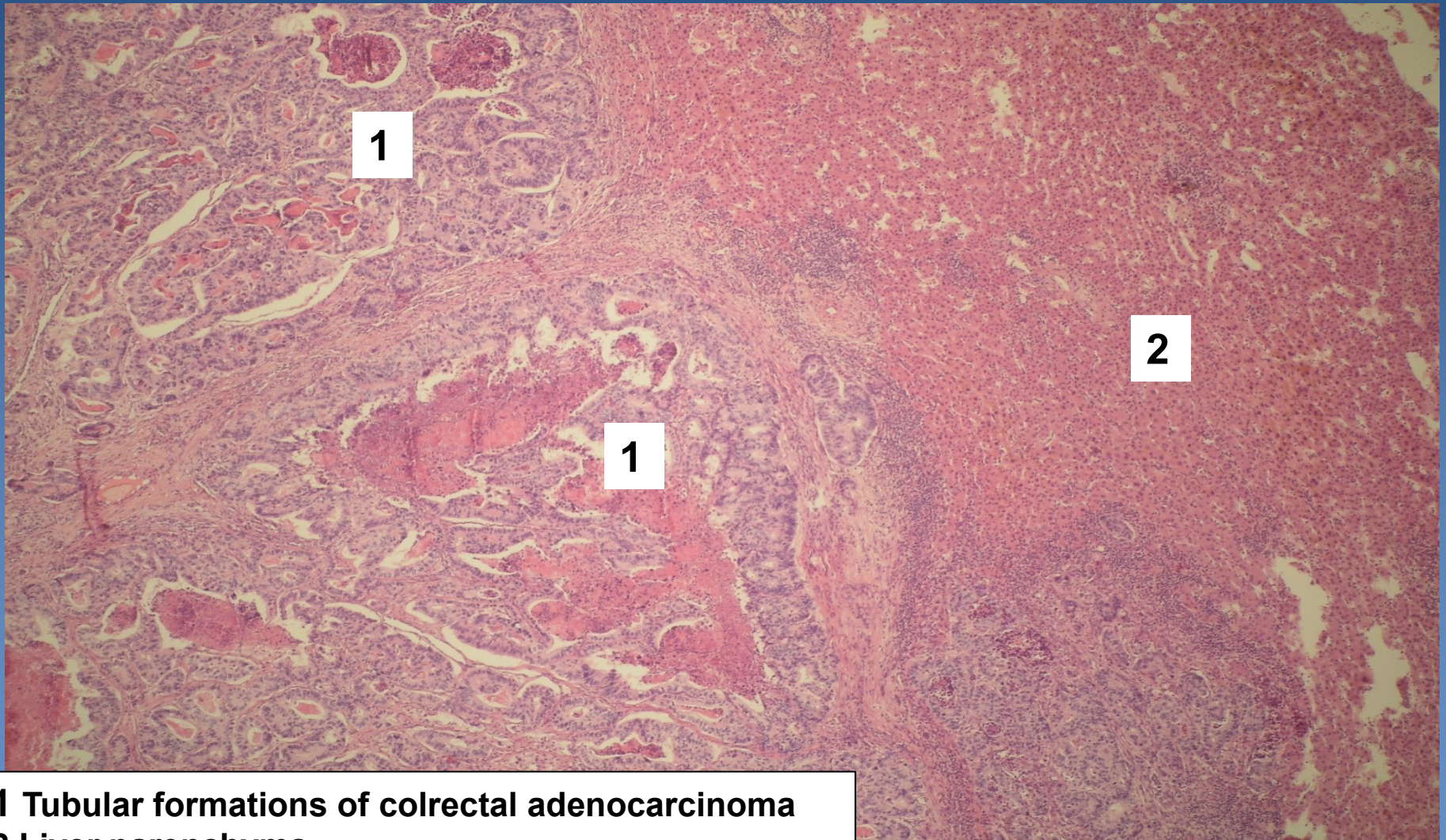


- 1 Neoplastic ductal formations
- 2 Focal duct ruptures with macrophages and detritus in the lumen
- 3 Stromal desmoplasia





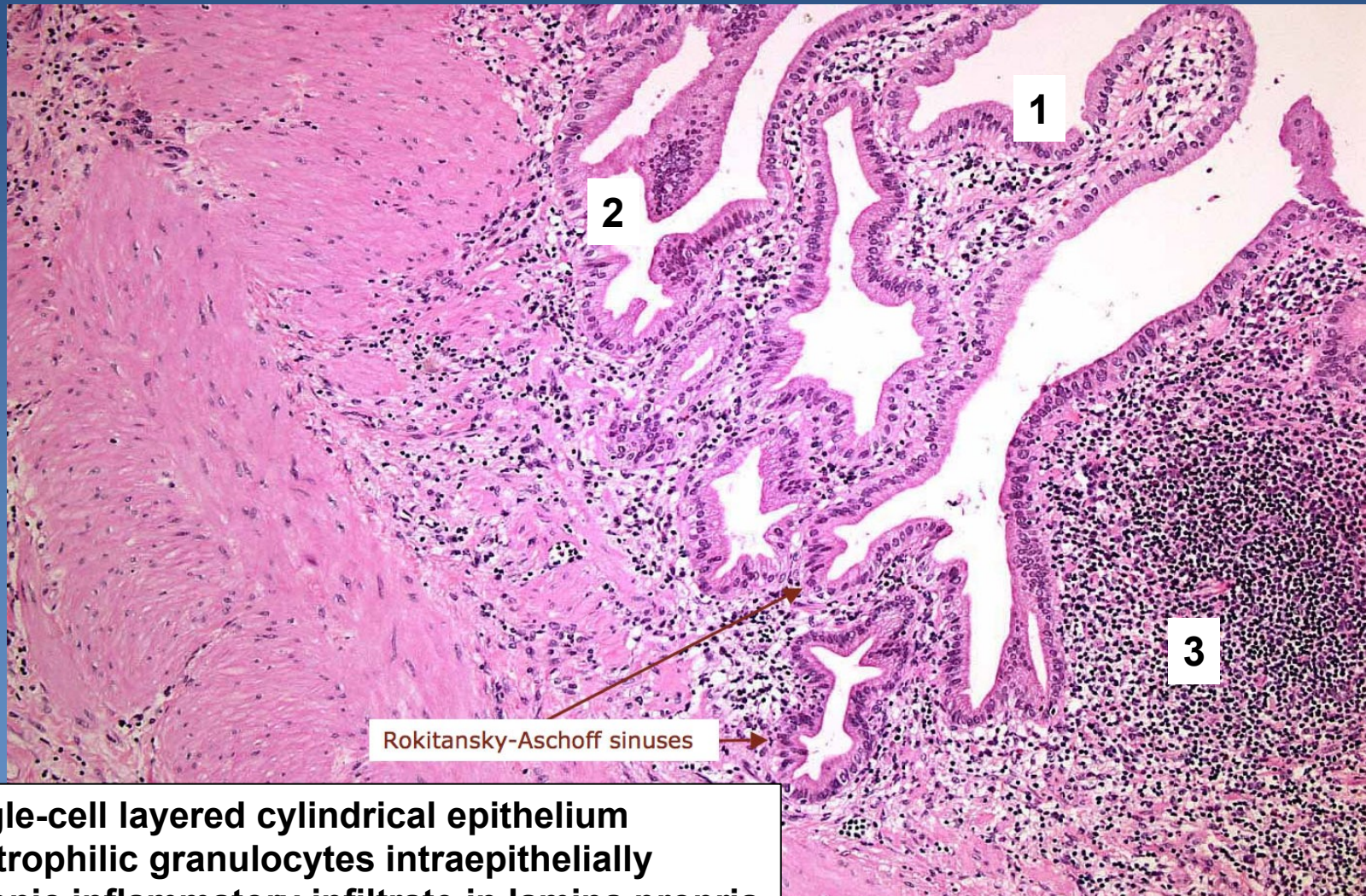
# ***55. Colorectal adenocarcinoma metastasis into hepatic parenchyma***



**1 Tubular formations of colorectal adenocarcinoma**  
**2 Liver parenchyma**



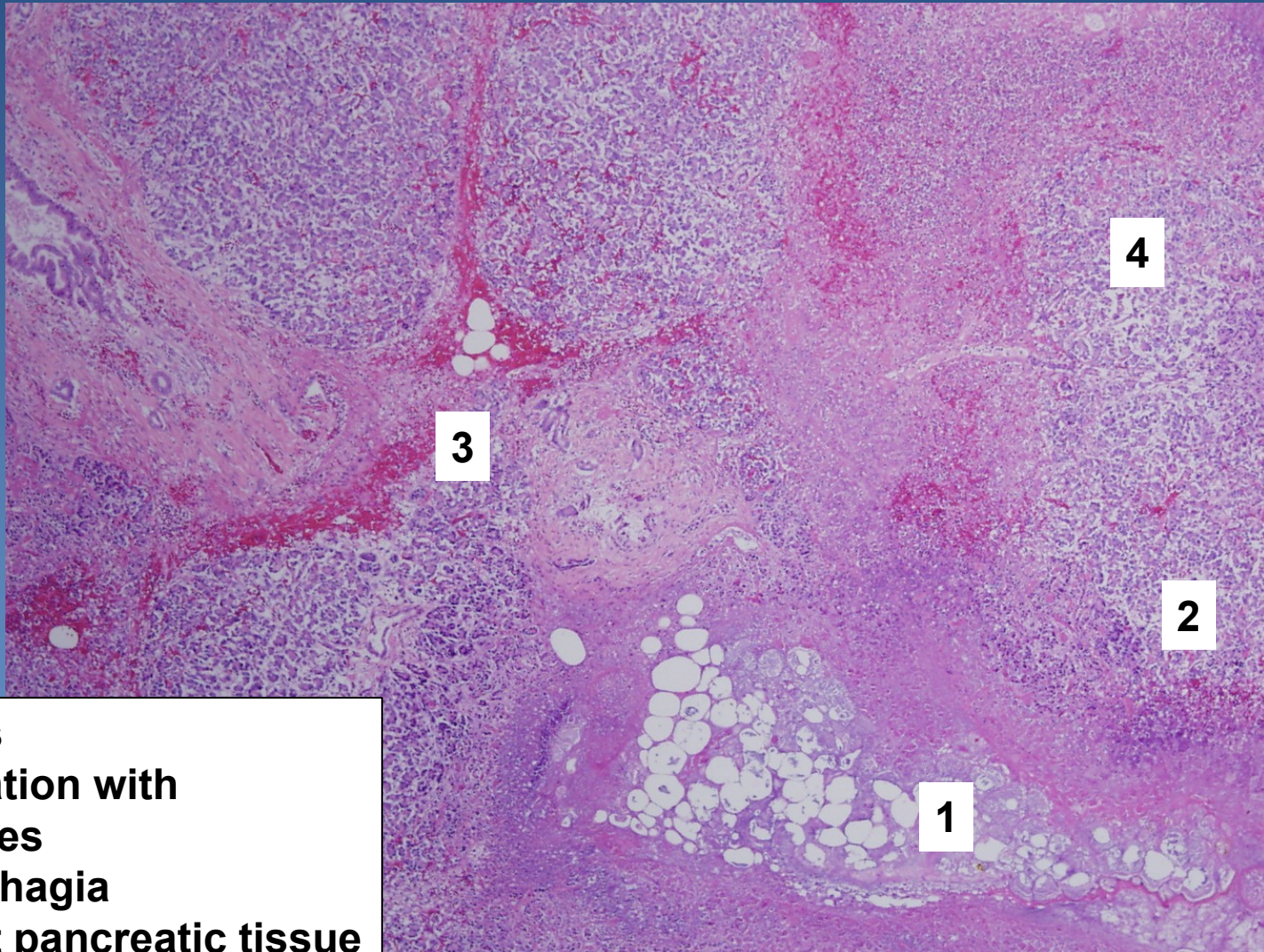
# 56. Chronic active cholecystitis



- 1 single-cell layered cylindrical epithelium
- 2 neutrophilic granulocytes intraepithelially
- 3 chronic inflammatory infiltrate in lamina propria



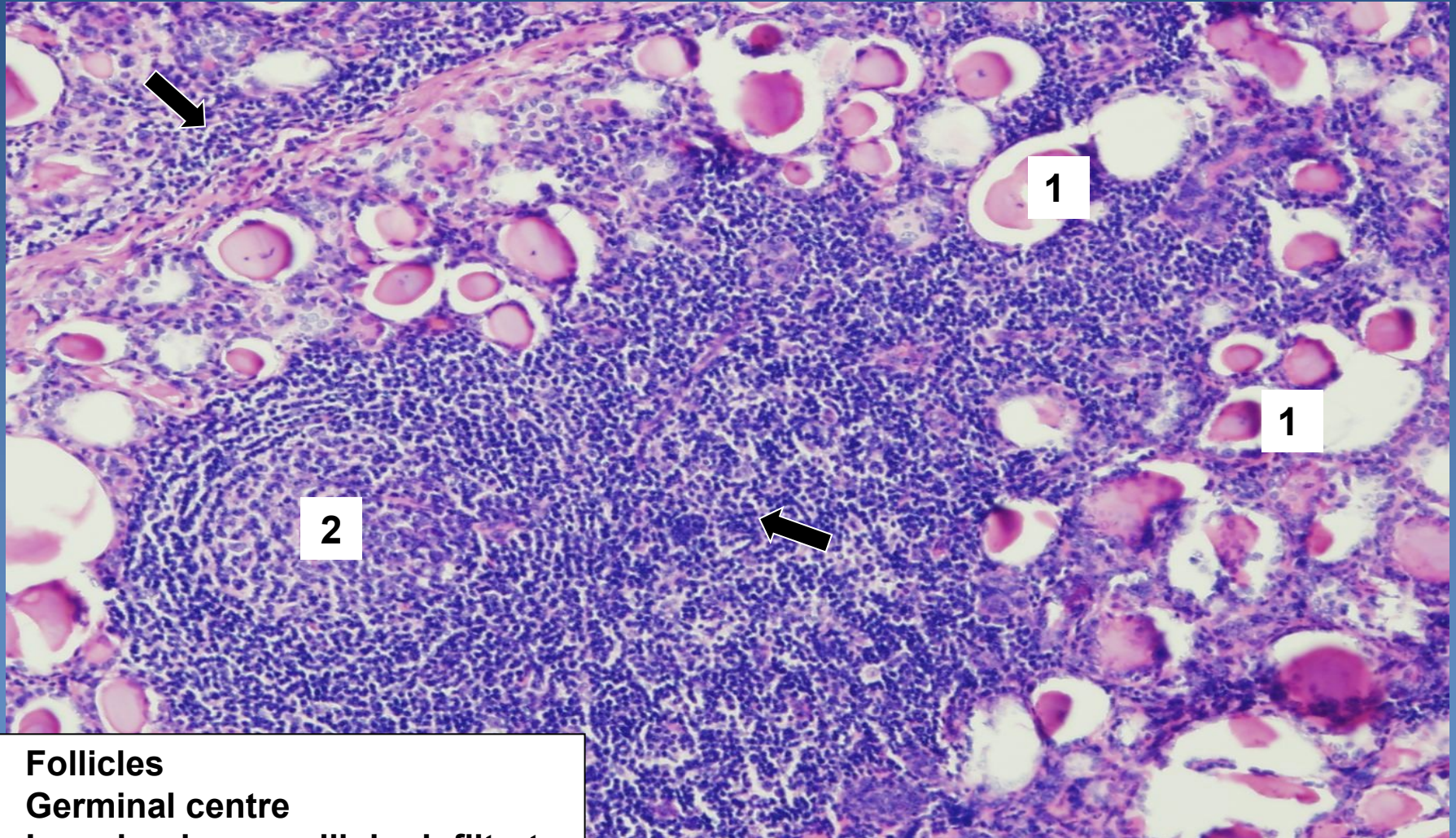
# 57. Acute haemorrhagic pancreatitis



- 1 Necrosis
- 2 Demarcation with neutrophiles
- 3 Haemorrhagia
- 4 Adjacent pancreatic tissue



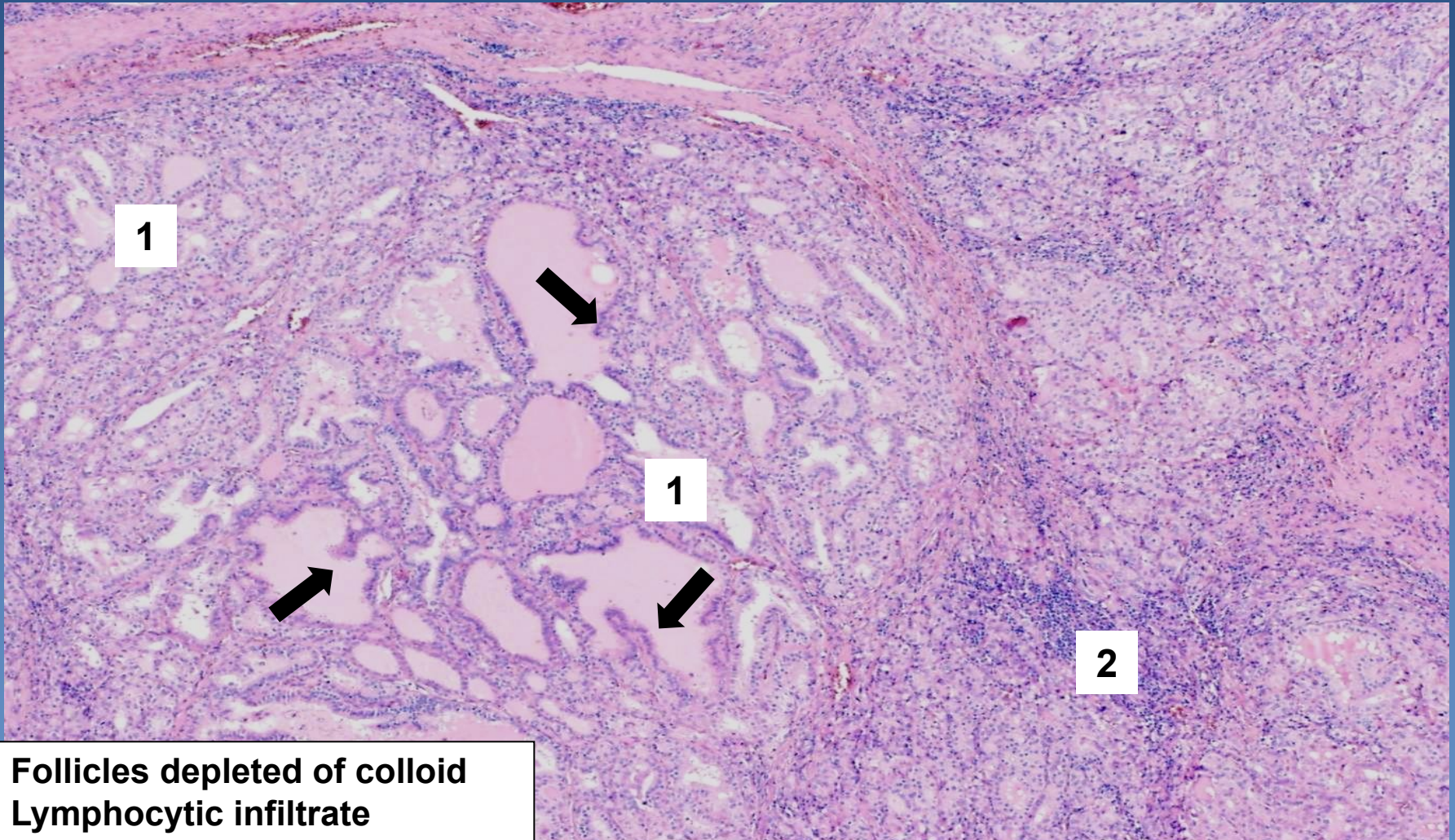
# 58. Hashimoto's thyroiditis



- 1 Follicles
- 2 Germinal centre
- ➔ Lymphoplasmocellular infiltrate



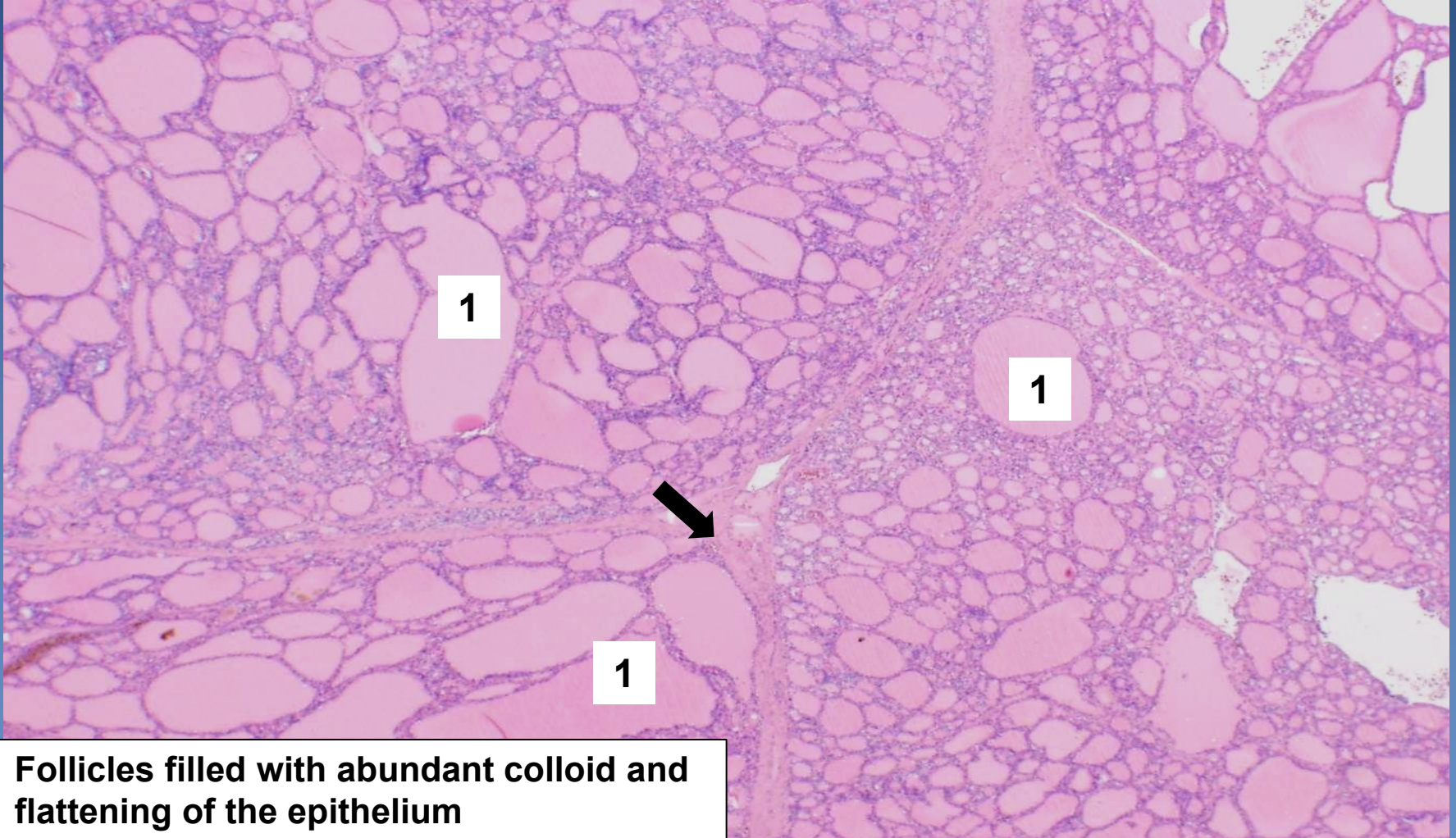
# 59. Thyroid gland hyperplasia (Graves-Basedow disease)



- 1 Follicles depleted of colloid
- 2 Lymphocytic infiltrate
- ➔ Papillary formations



# 60. Multinodular goitre

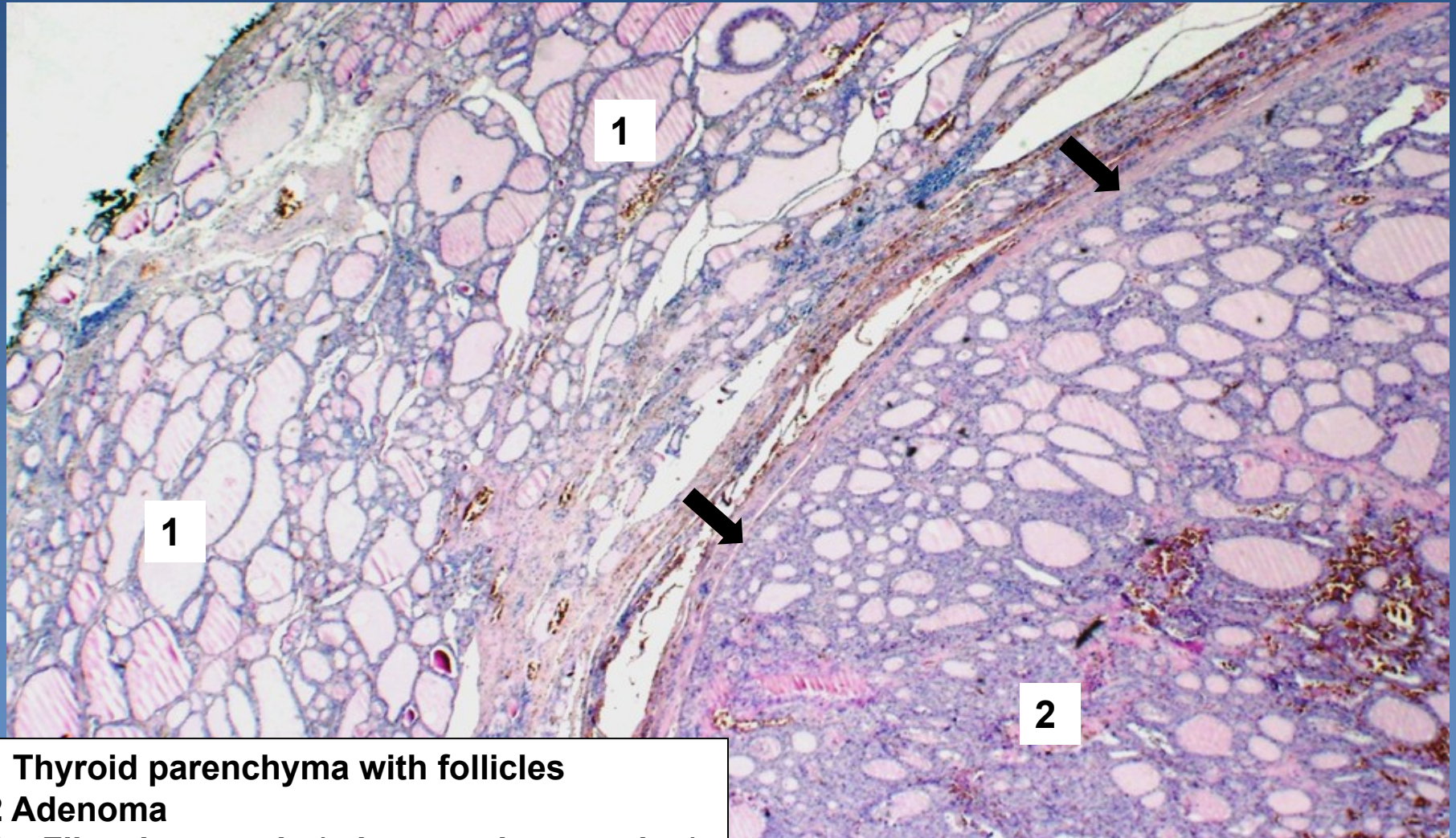


**1** Follicles filled with abundant colloid and flattening of the epithelium

➔ Fibrous septa



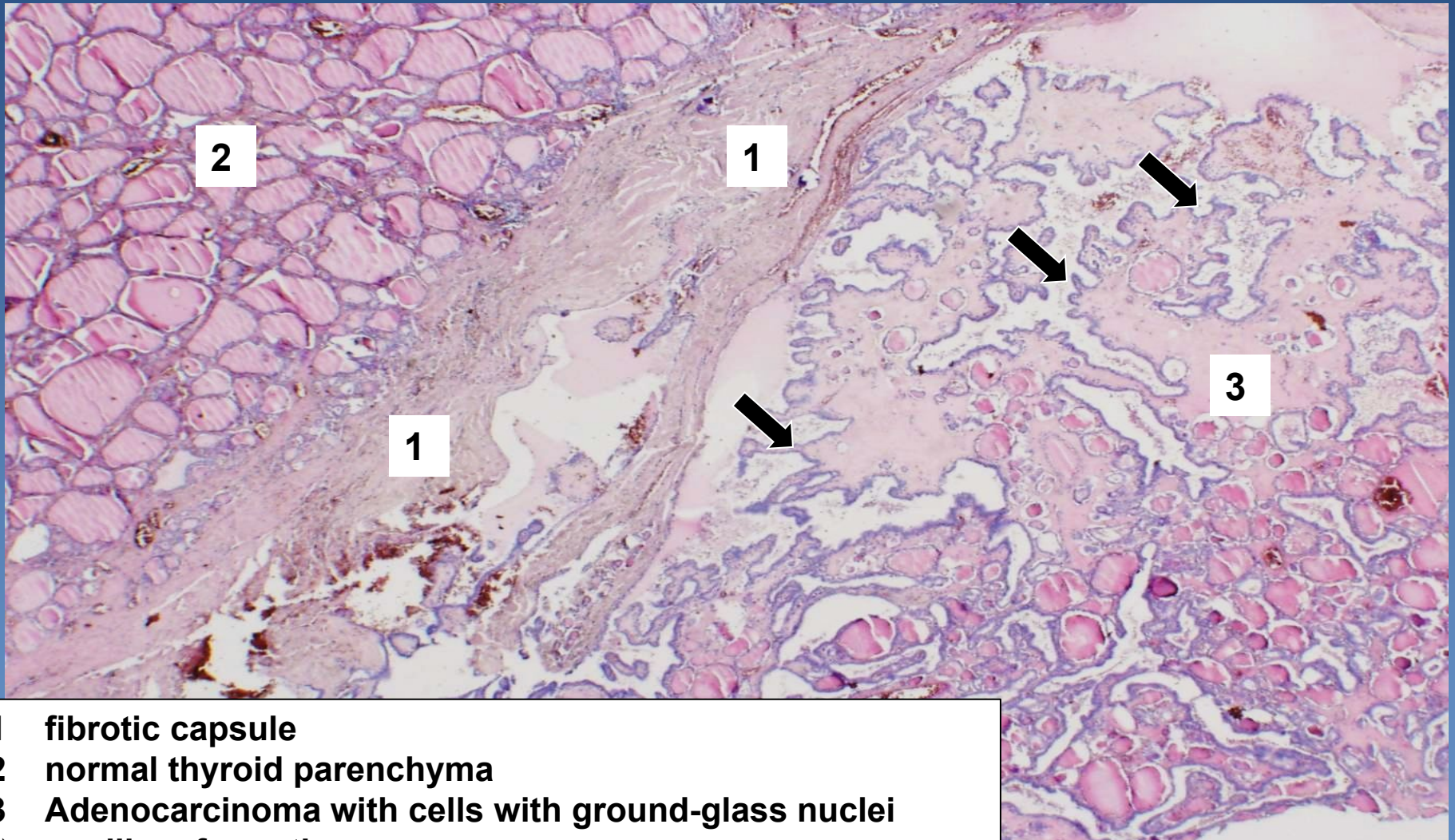
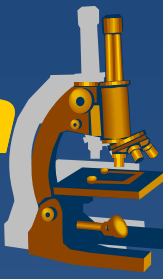
# 61. Follicular thyroid adenoma



1 Thyroid parenchyma with follicles  
2 Adenoma  
➔ Fibrotic capsule (adenoma demarcation)

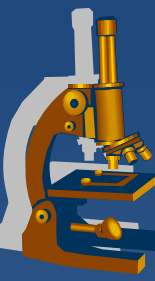


# 62. Papillary adenocarcinoma of thyroid gland

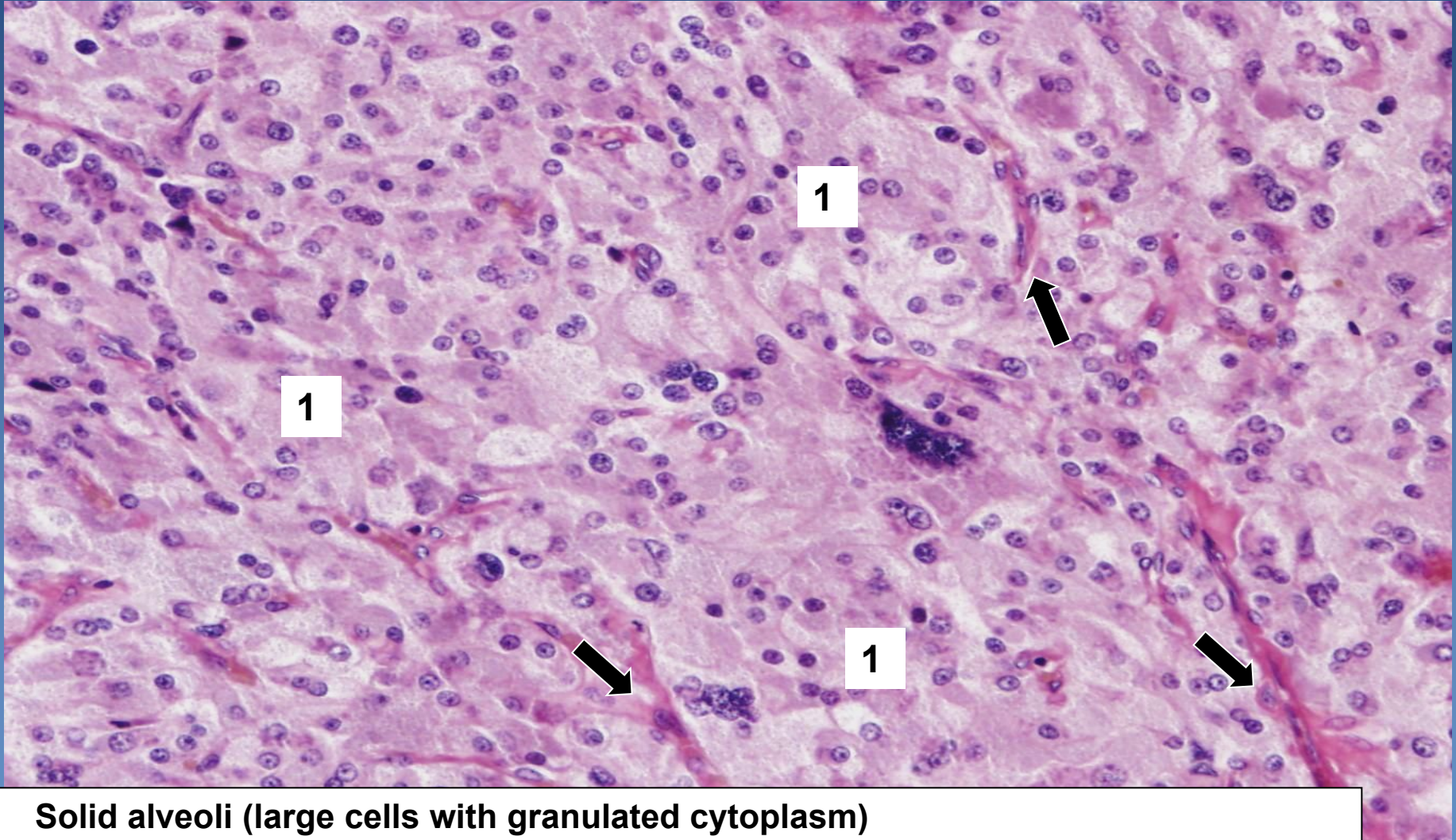


- 1 fibrotic capsule
- 2 normal thyroid parenchyma
- 3 Adenocarcinoma with cells with ground-glass nuclei
- ➔ papillary formations





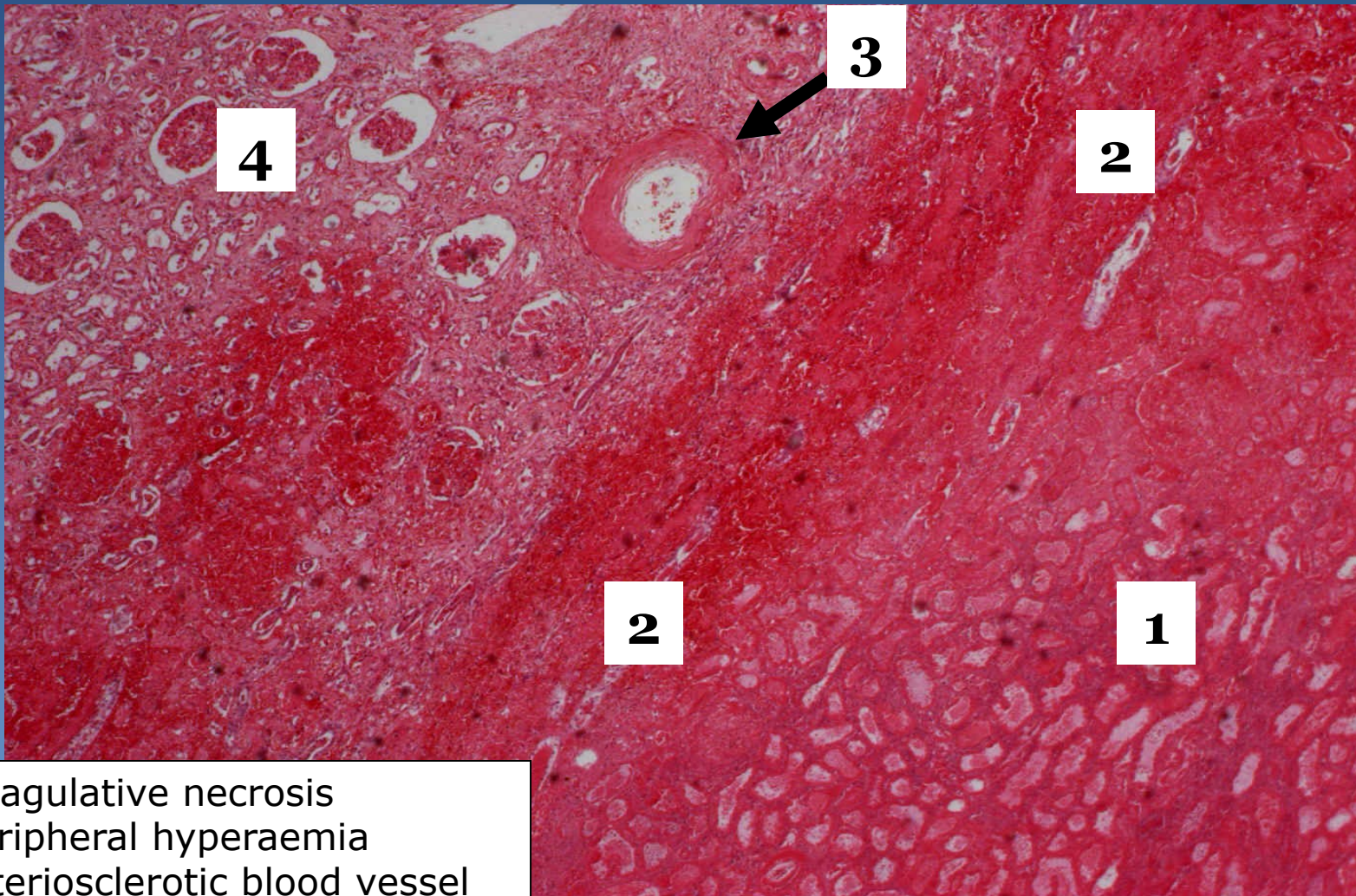
# 63. Pheochromocytoma



**1** Solid alveoli (large cells with granulated cytoplasm)  
**➔** capillarized stroma

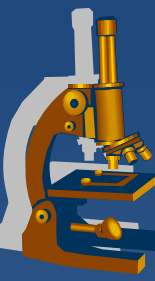


# 64. Renal infarction

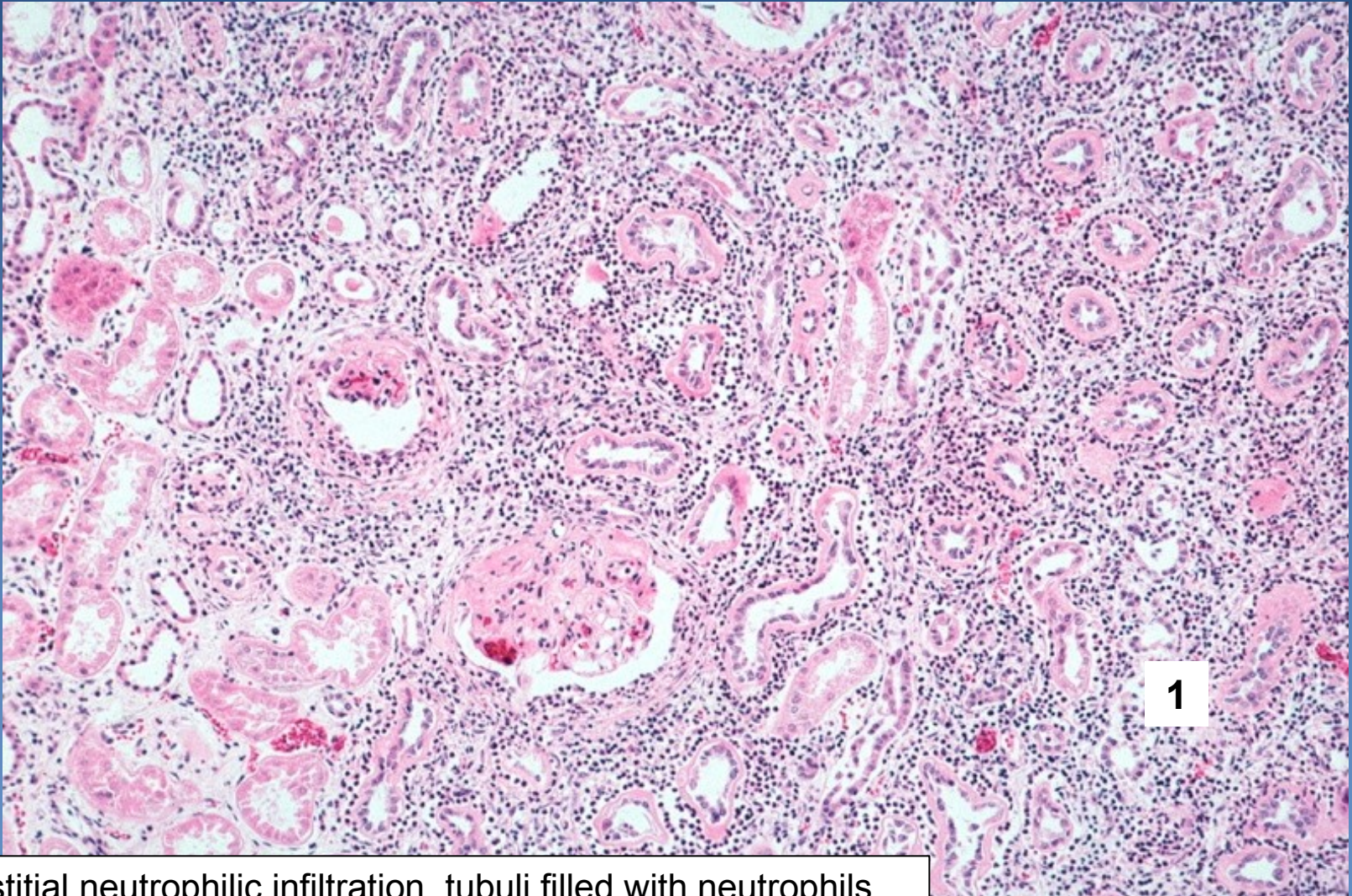


- 1 - coagulative necrosis
- 2 - peripheral hyperaemia
- 3 - arteriosclerotic blood vessel
- 4 - normal tissue





# 65. *Pyelonefritida purulentní*

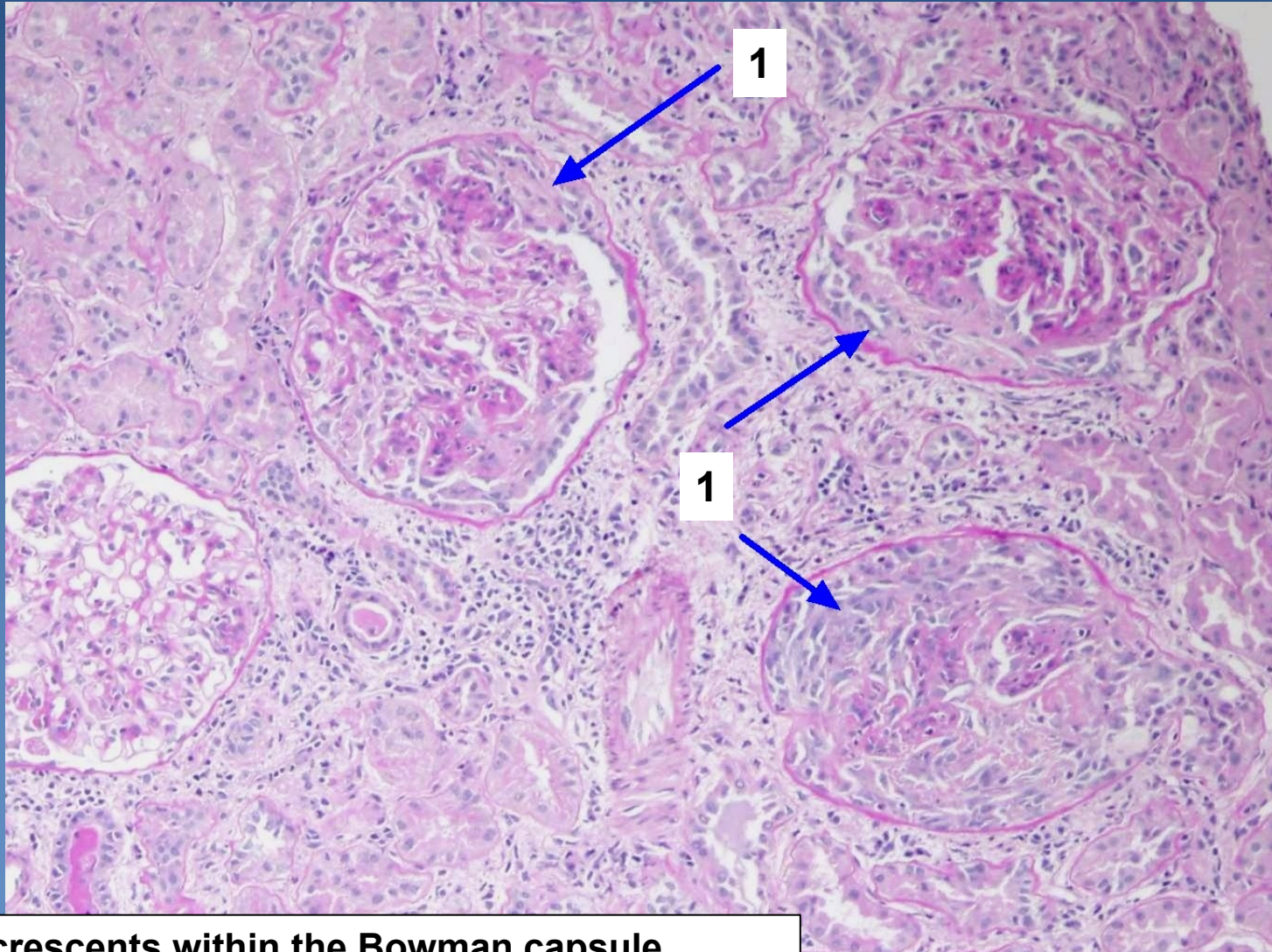


1

1 Interstitial neutrophilic infiltration, tubuli filled with neutrophils



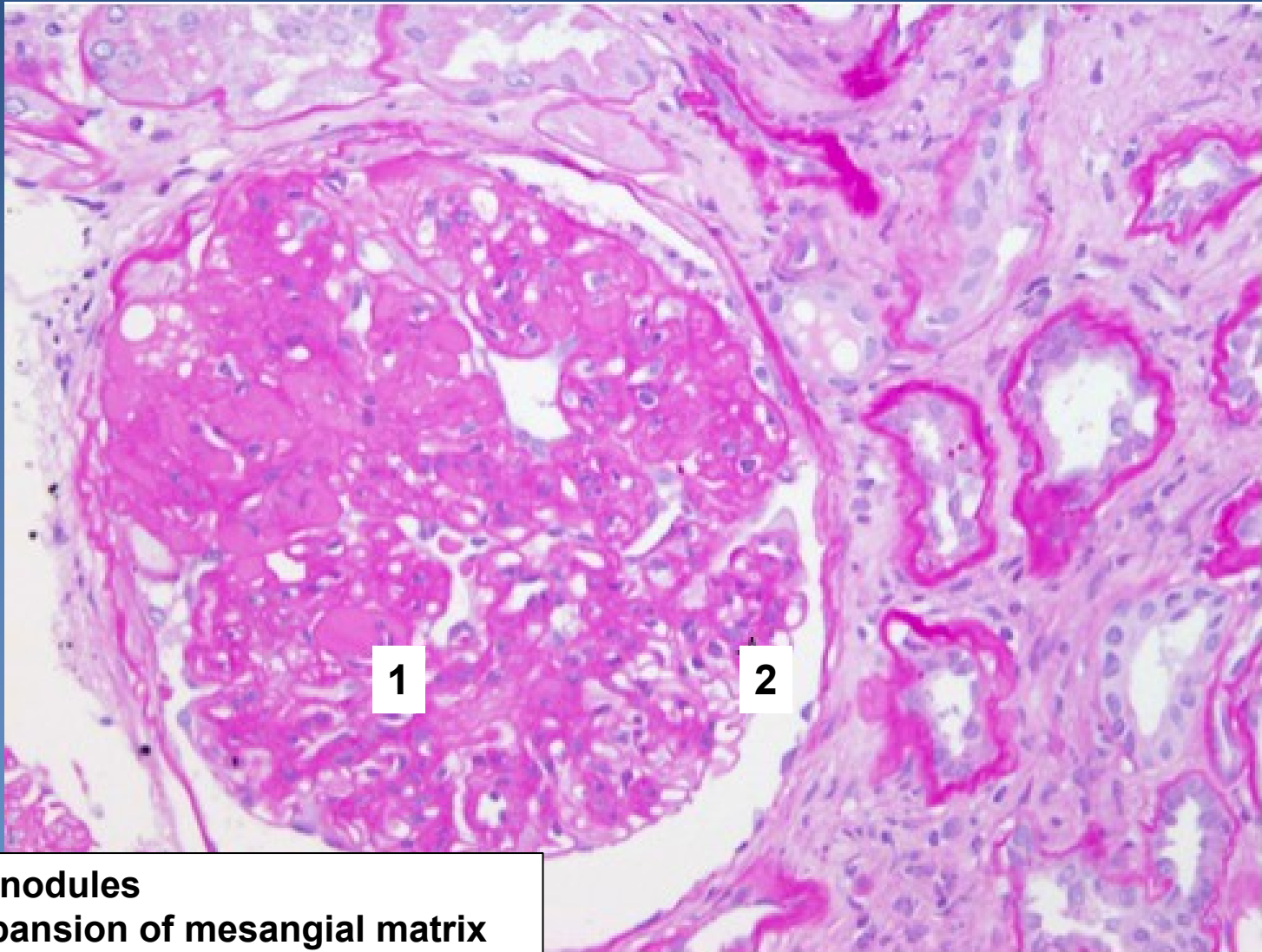
## 66. Acute glomerulonephritis (proliferative or crescentic)



1 Cellular crescents within the Bowman capsule



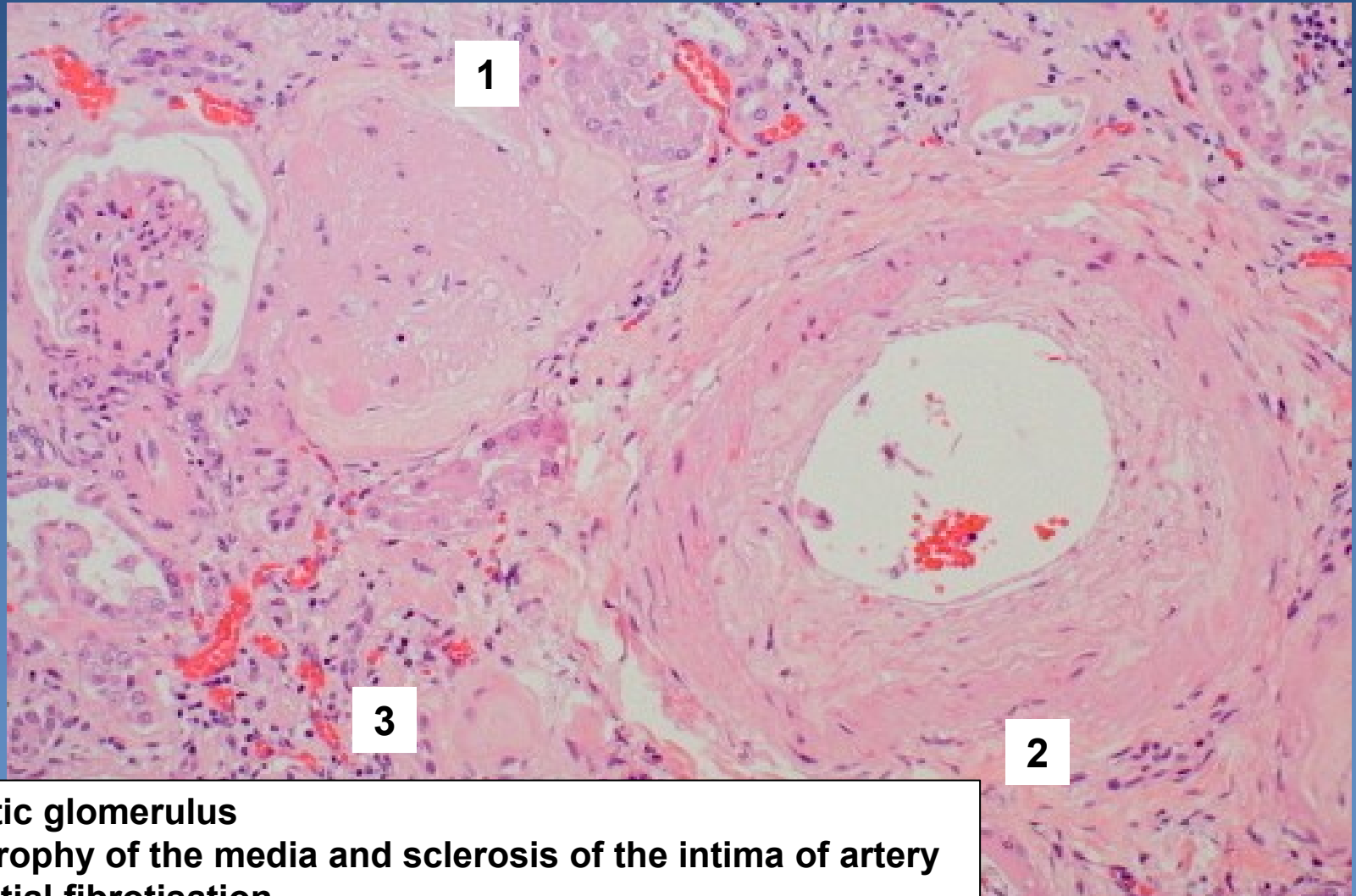
# 67. Diabetic glomerulopathy



- 1 Mesangial nodules
- 2 Diffuse expansion of mesangial matrix



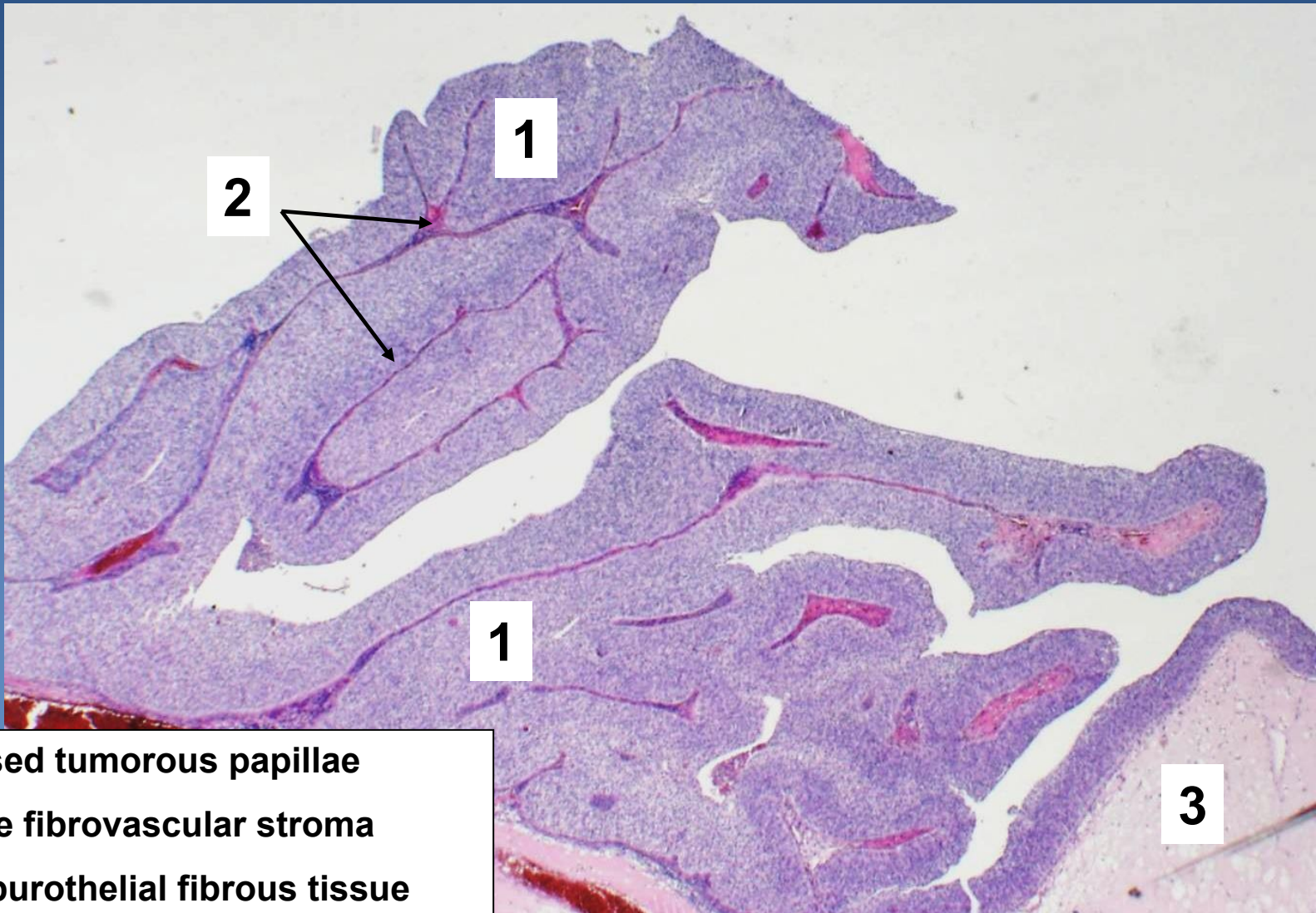
# 68. *Benign nephrosclerosis*



**1 Sclerotic glomerulus**  
**2 Hypertrophy of the media and sclerosis of the intima of artery**  
**3 Interstitial fibrotisation**



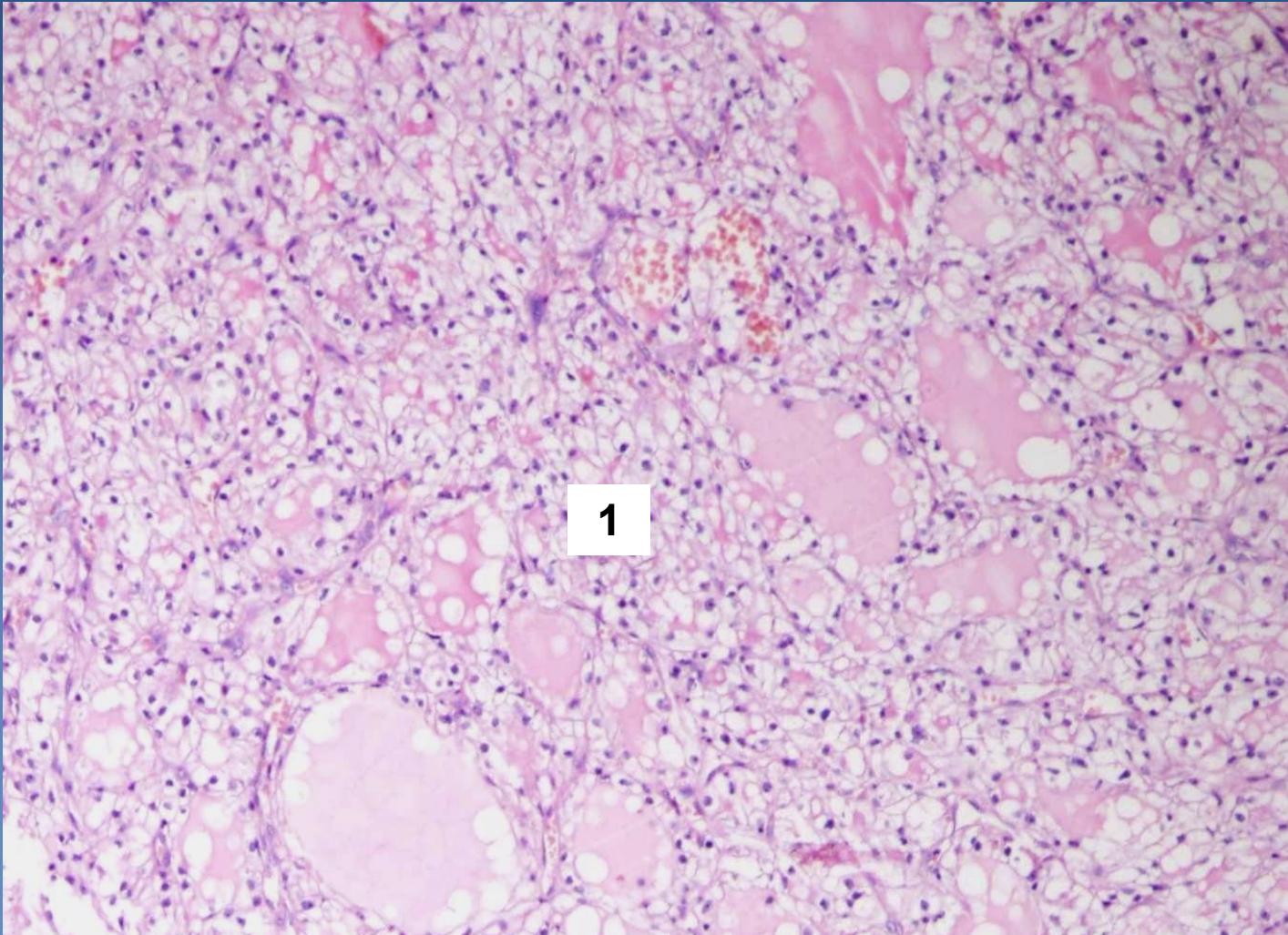
# 69. Papillary urothelial carcinoma, low grade



1. Fused tumorous papillae
2. Fine fibrovascular stroma
3. Suburothelial fibrous tissue



# 70. Clear cell renal cell carcinoma (Grawitz tumor)

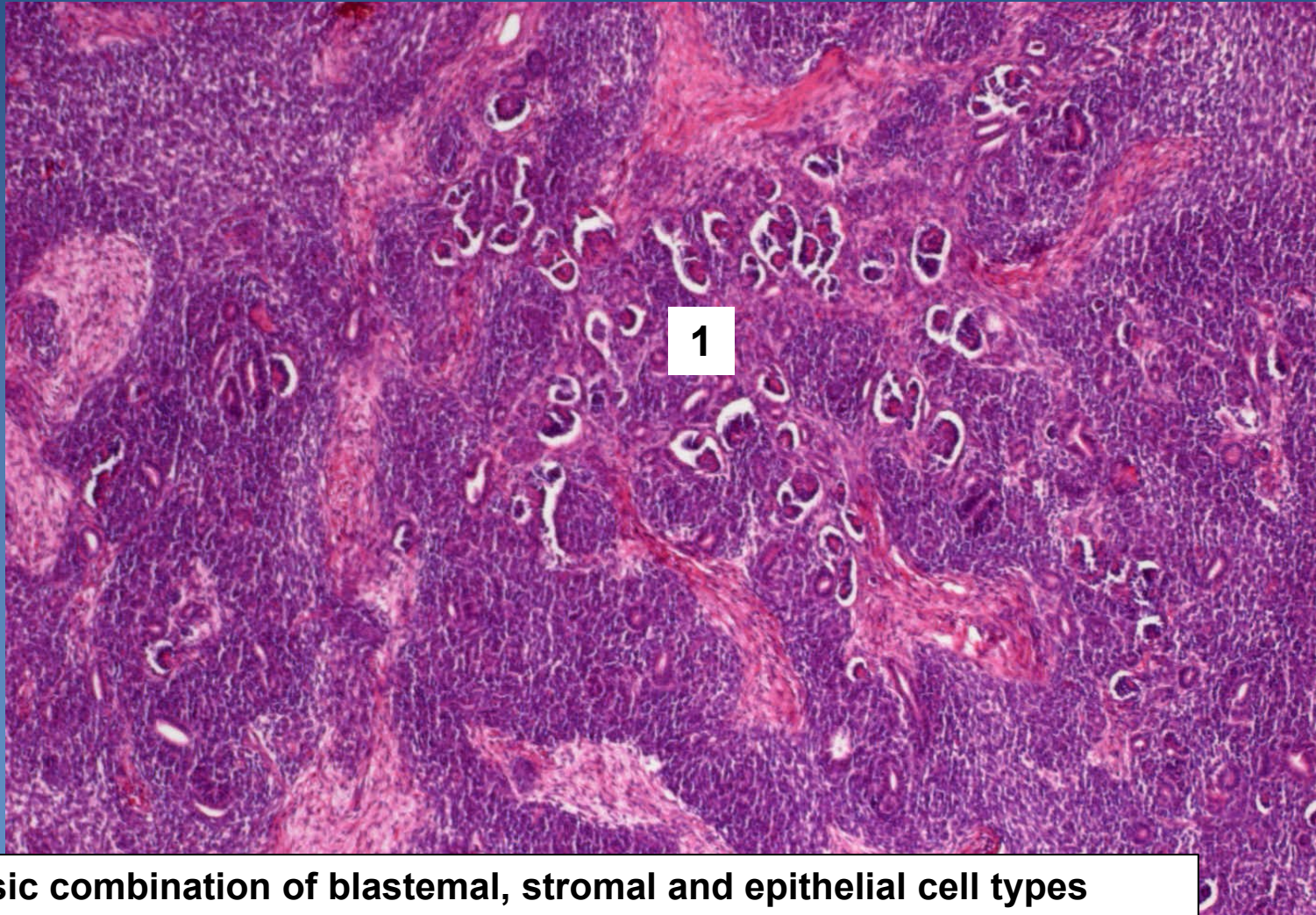
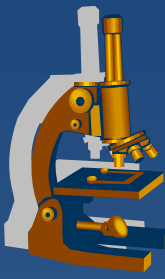


1

1 Large cells with clear granular cytoplasm (glycogen and lipid deposits)



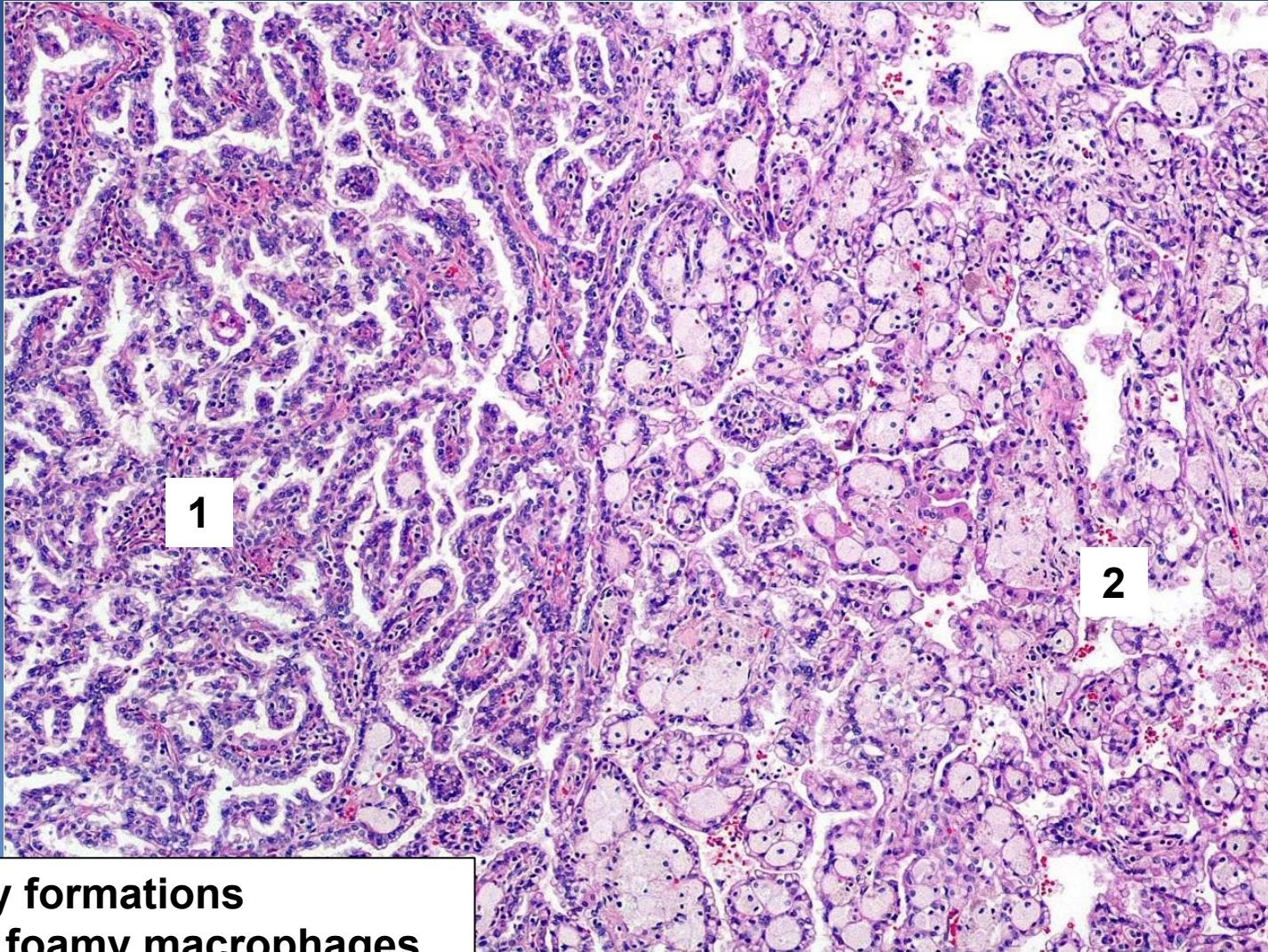
# 71. Nephroblastoma (Wilms' tumor)



1 Triphasic combination of blastemal, stromal and epithelial cell types



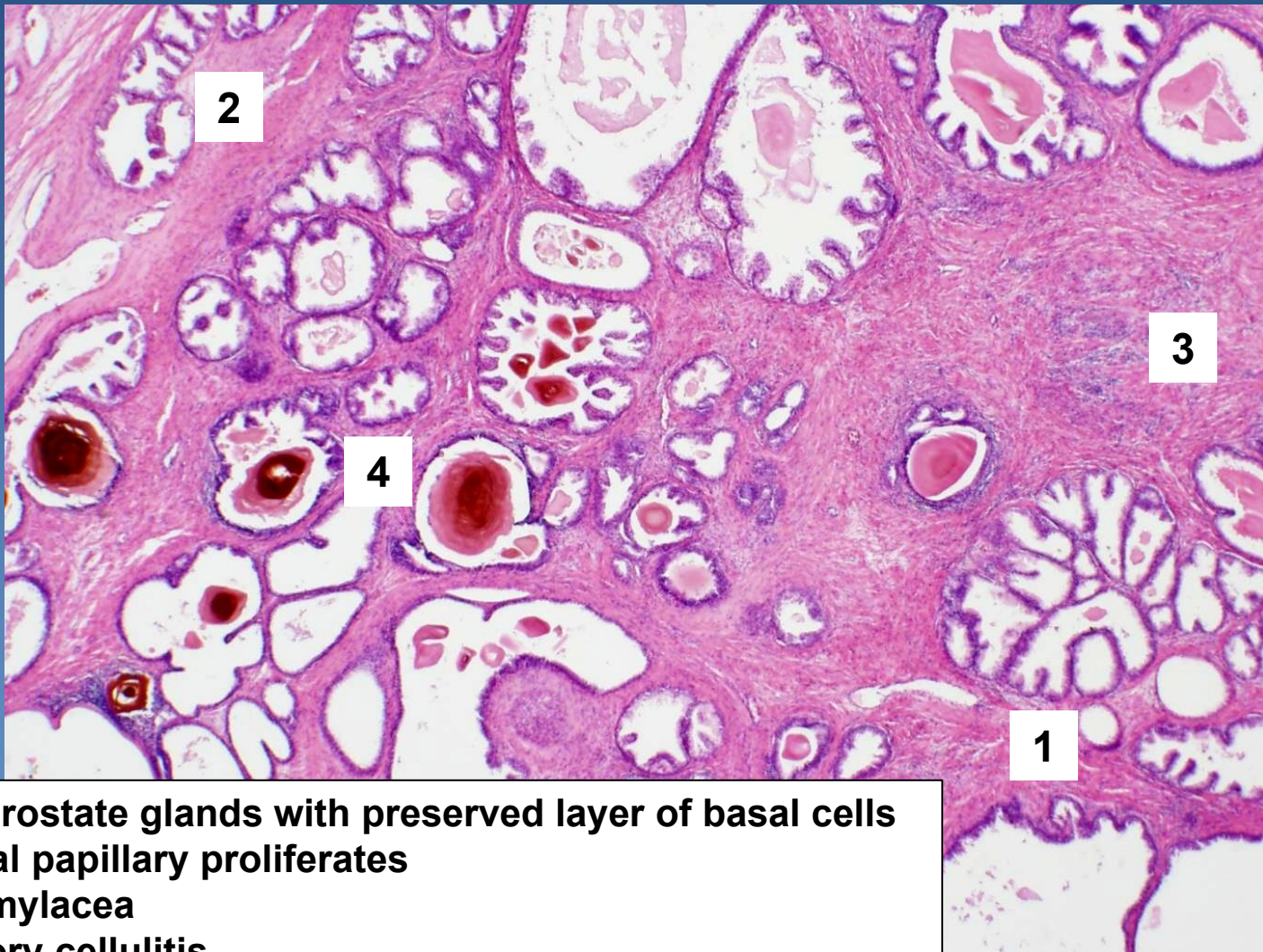
# 72. Papillary renal cell carcinoma



- 1 Papillary formations
- 2 Stromal foamy macrophages



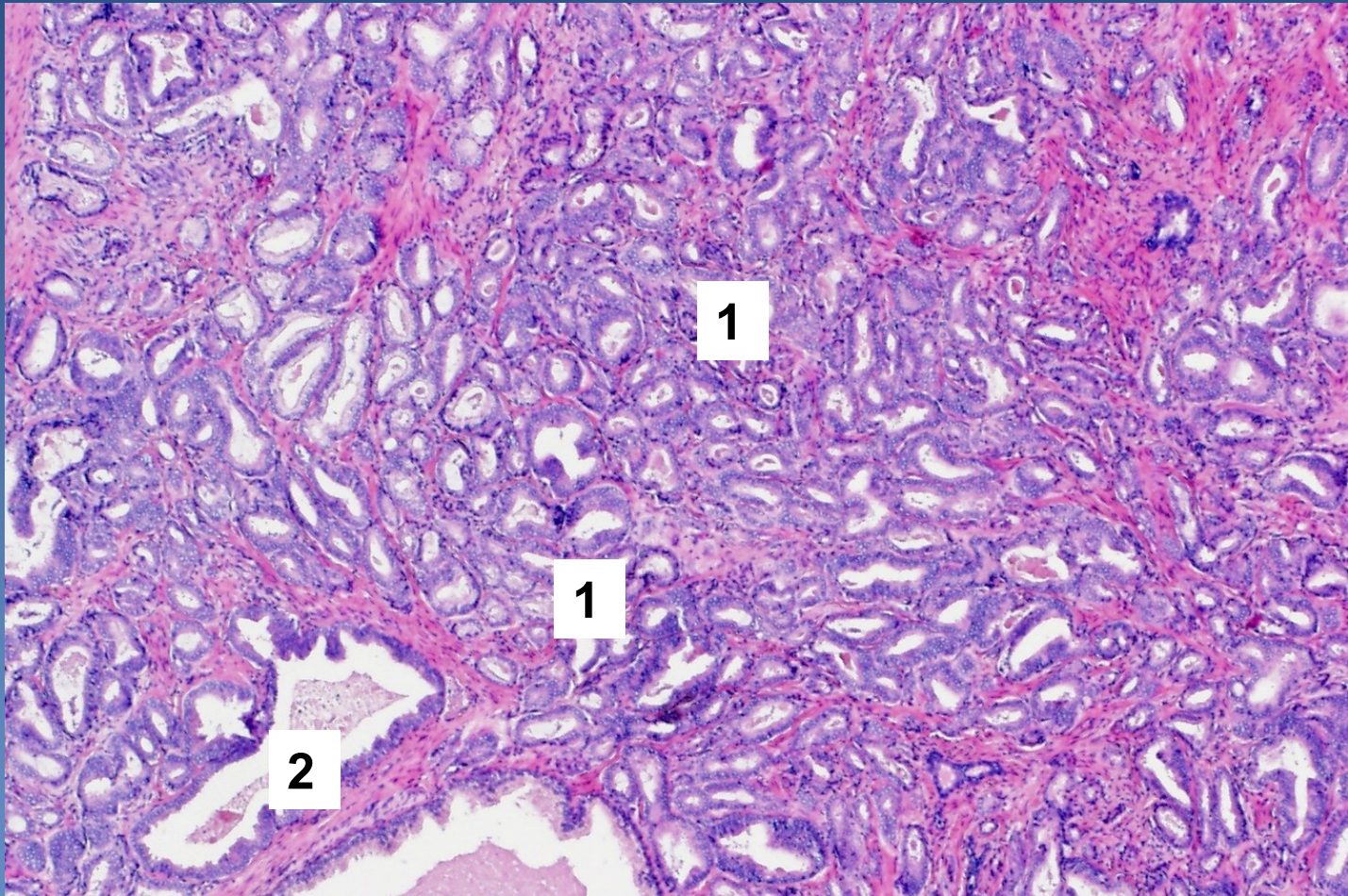
# 73. Benign prostatic hyperplasia



- 1 Enlarged prostate glands with preserved layer of basal cells
- 2 Intraluminal papillary proliferates
- 3 Corpora amylacea
- 4 Inflammatory cellulitis



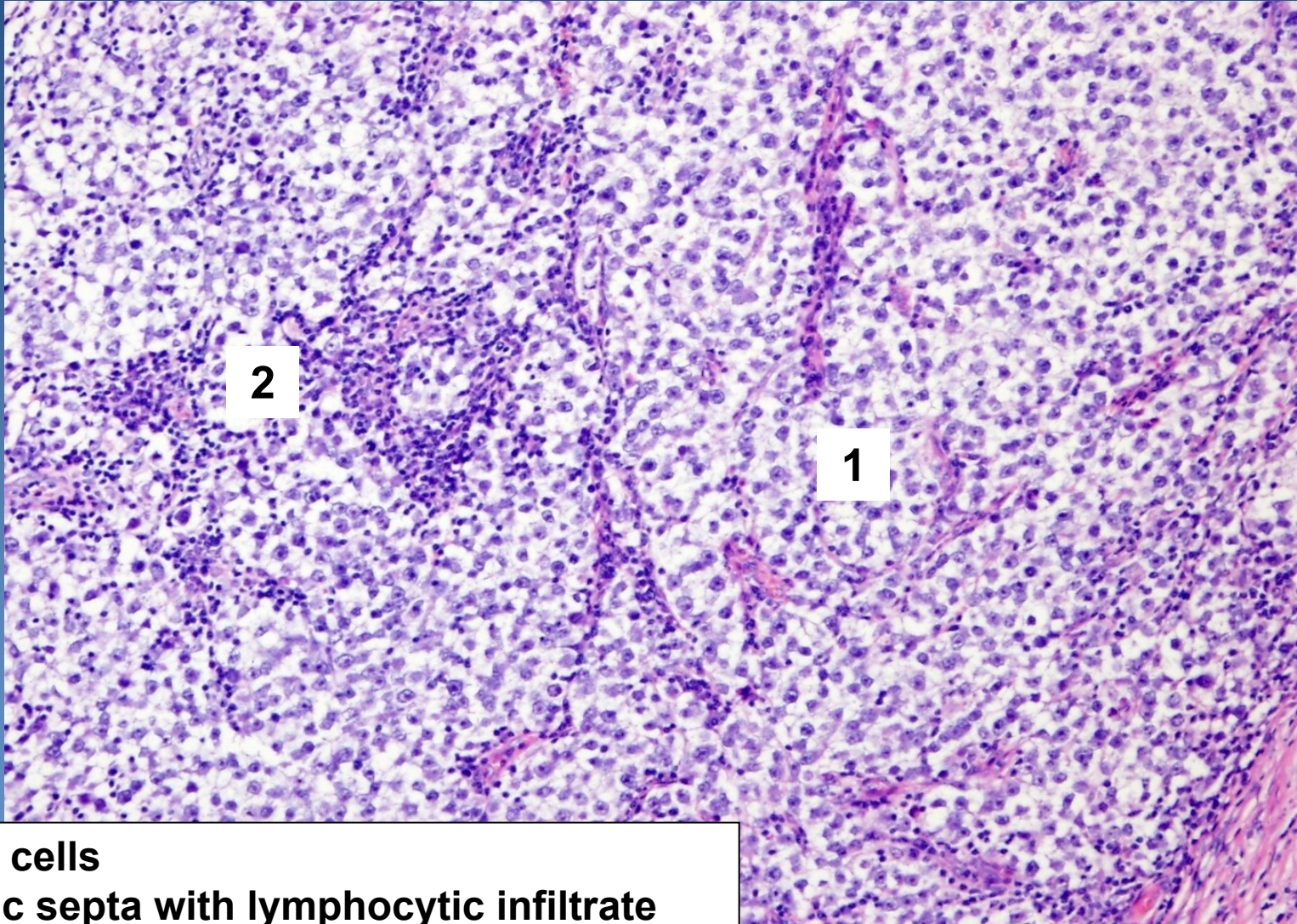
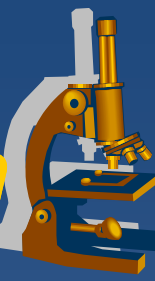
# 74. Acinar prostatic adenocarcinoma



- 1 Small neoplastic glands without preserved layer of basal cells
- 2 Neoplastic acini growing between prostatic glands



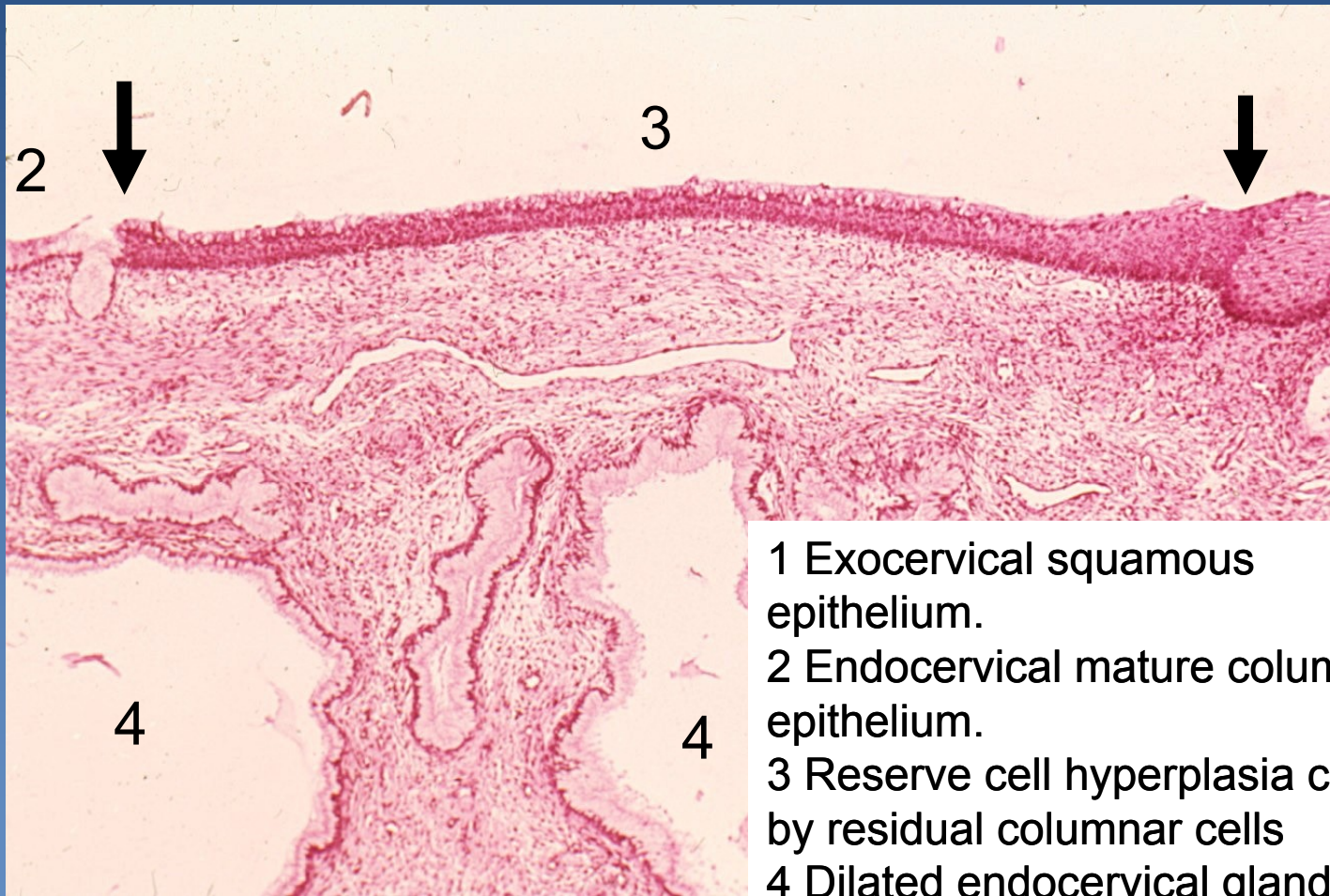
# 75. Testicular seminoma



**1 Tumor cells**  
**2 Fibrotic septa with lymphocytic infiltrate**



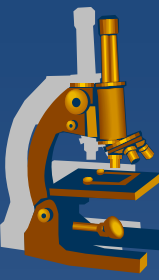
# 76. Squamous metaplasia with Nabothian cysts



- 1 Exocervical squamous epithelium.
- 2 Endocervical mature columnar epithelium.
- 3 Reserve cell hyperplasia covered by residual columnar cells
- 4 Dilated endocervical glands (Nabothian cysts)



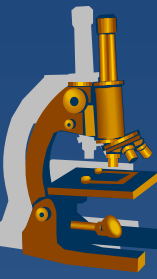
# 77. *Condyloma accuminatum*



1 Hyperkeratosis, parakeratosis  
2 Koilocytes



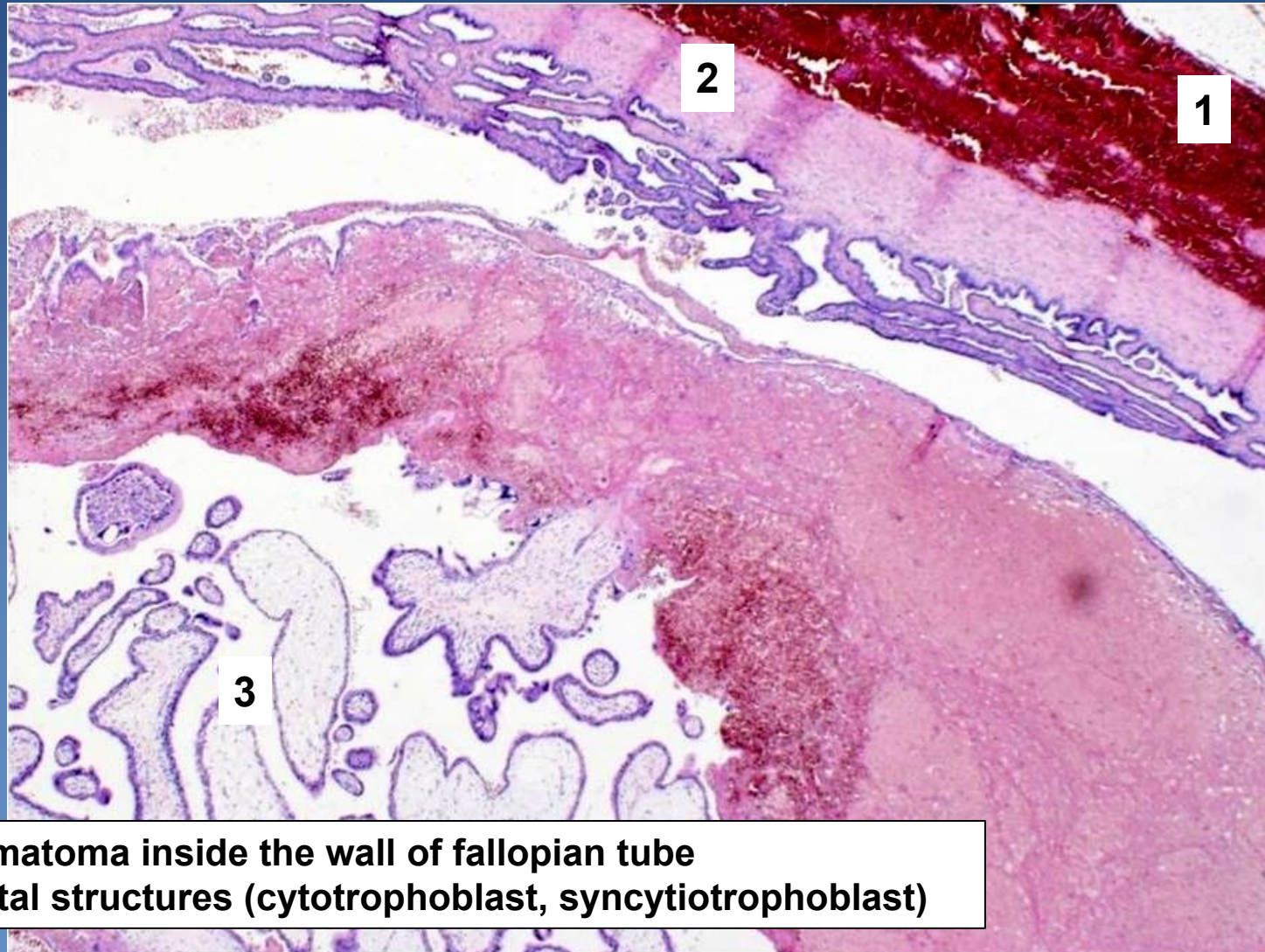
# 78. HSIL (High-grade CIN)



Diffuse cytonuclear atypia. Mitotic figure including atypical ones



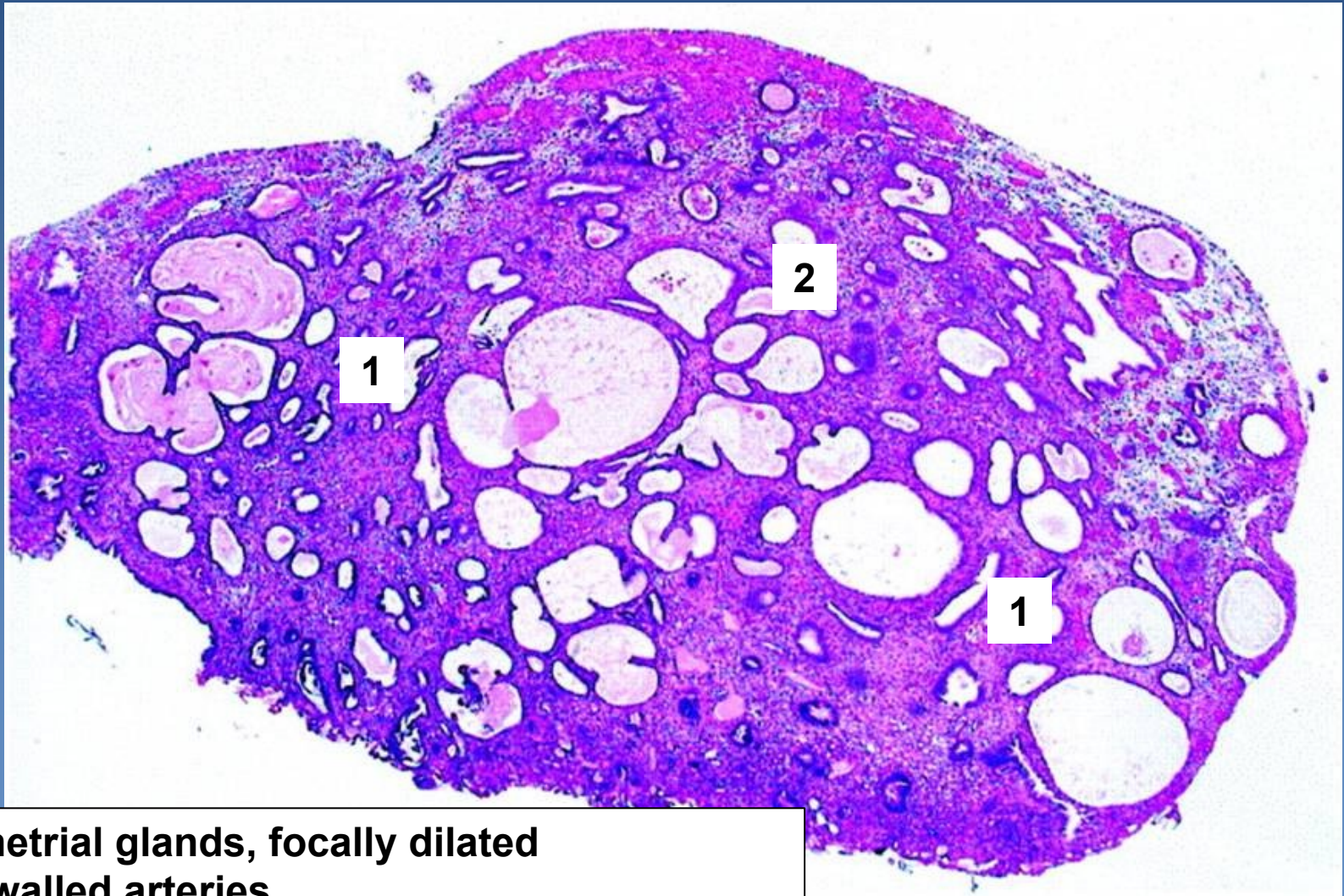
# 79. Ectopic tubal pregnancy



1+2 Haematoma inside the wall of fallopian tube  
3 Placental structures (cytotrophoblast, syncytiotrophoblast)



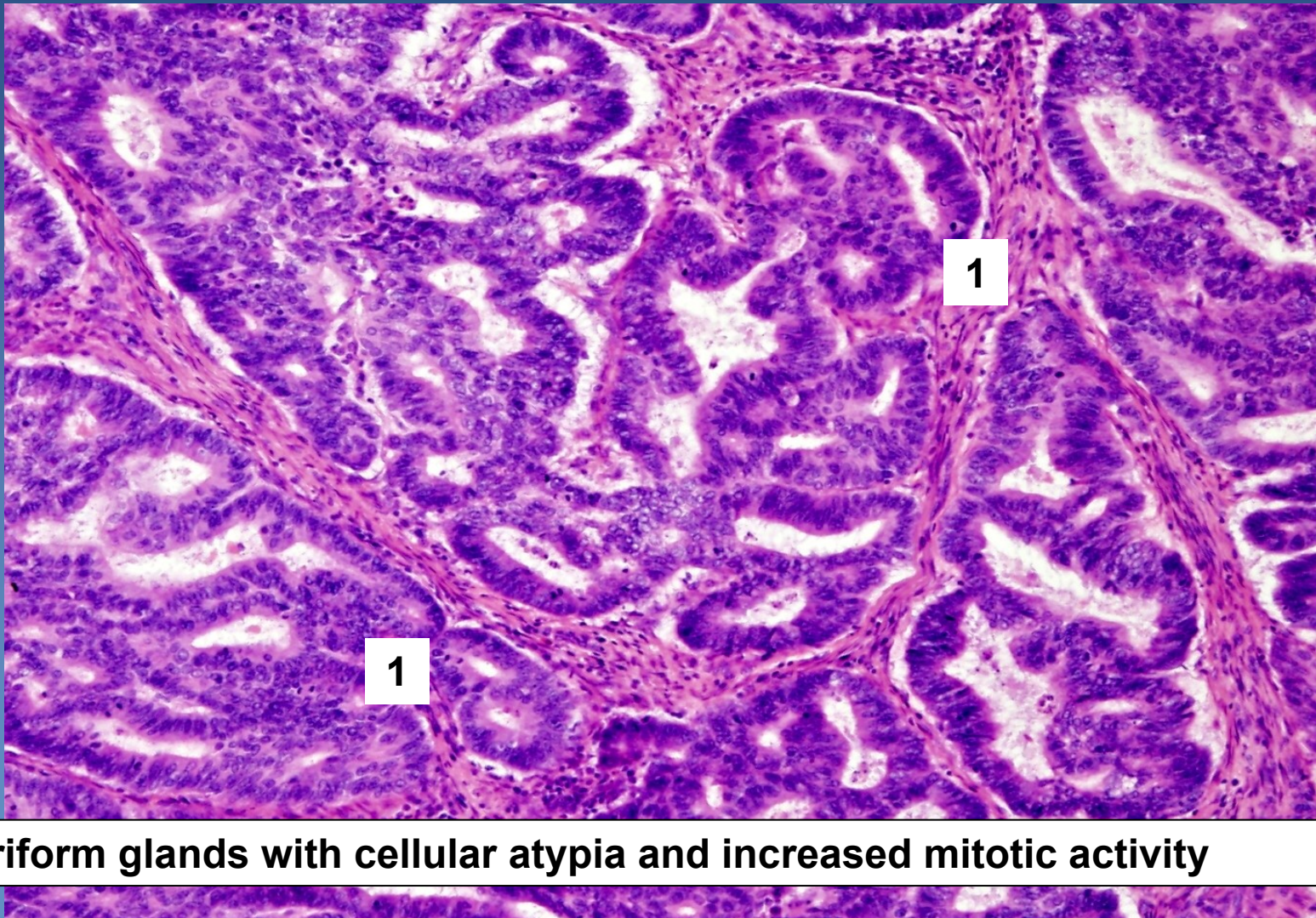
# 80. Endometrial polyp



**1 Endometrial glands, focally dilated**  
**2 Thick-walled arteries**



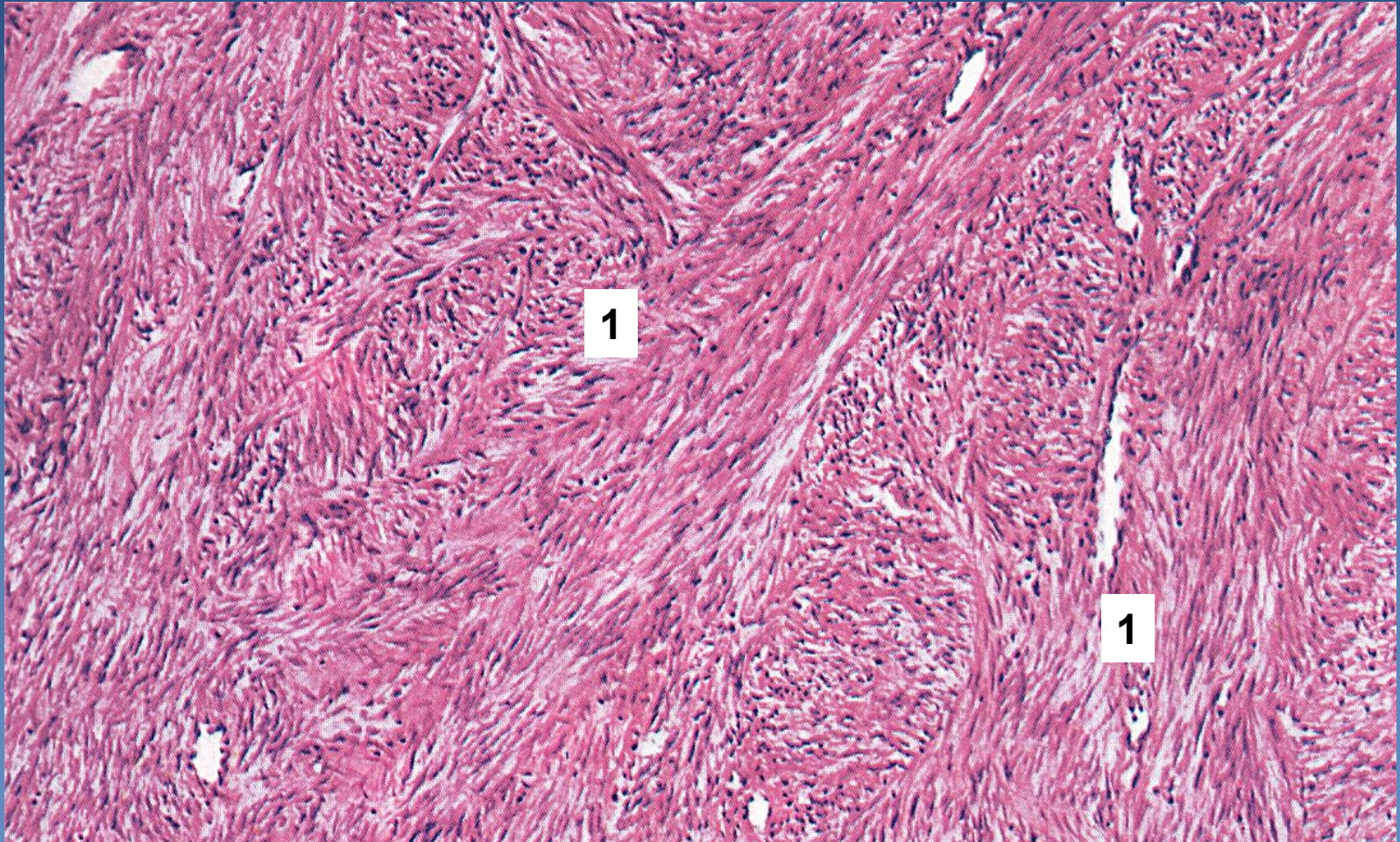
# 81. Endometrioid adenocarcinoma



1 Cribriform glands with cellular atypia and increased mitotic activity



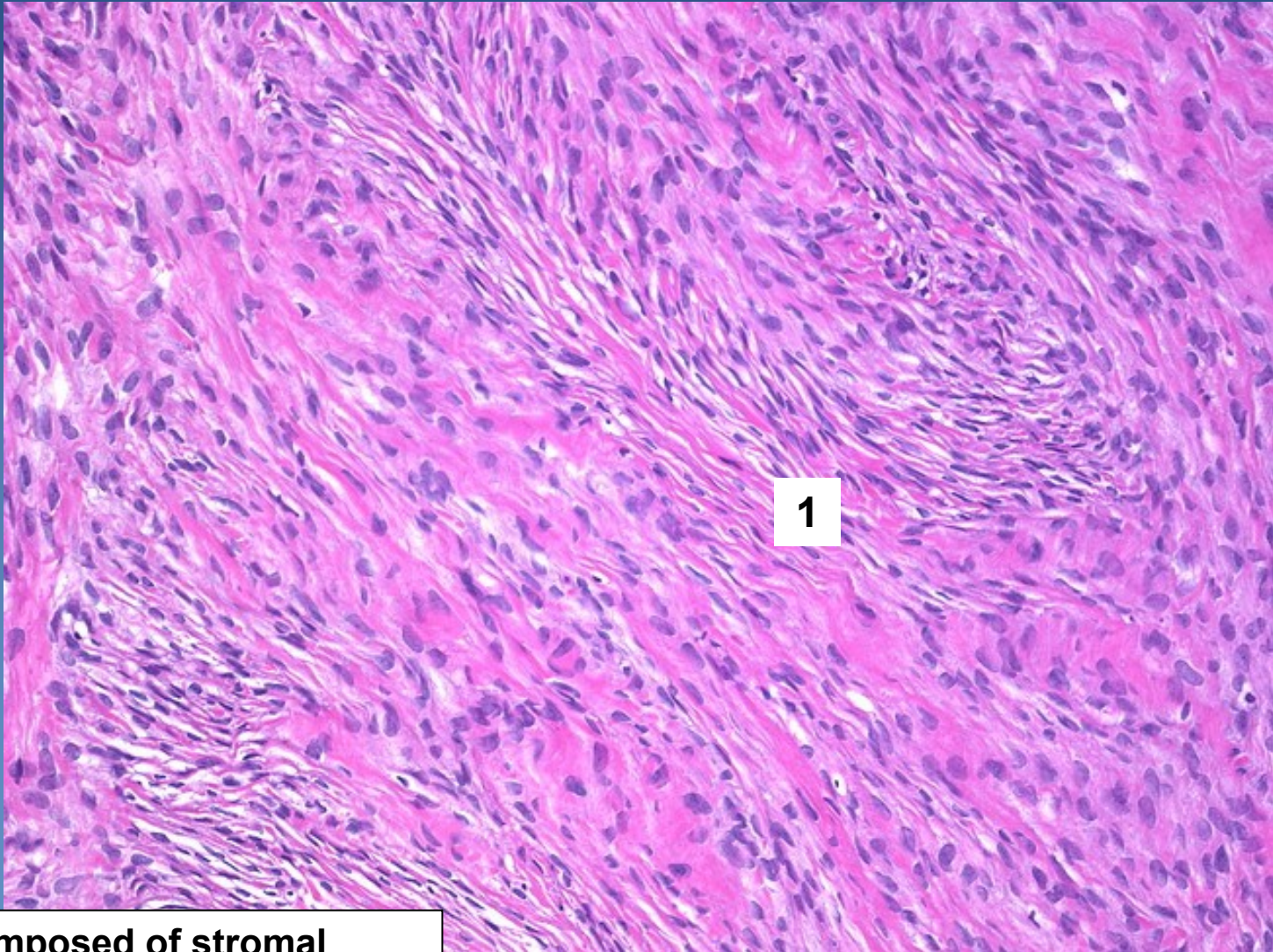
# 82. *Leiomyoma uteri*



**1 Spindle smooth muscle cells, elongated nuclei with rounded ends („cigar shaped nuclei“), fascicular structure. No atypia/necrosis/mitosis.**



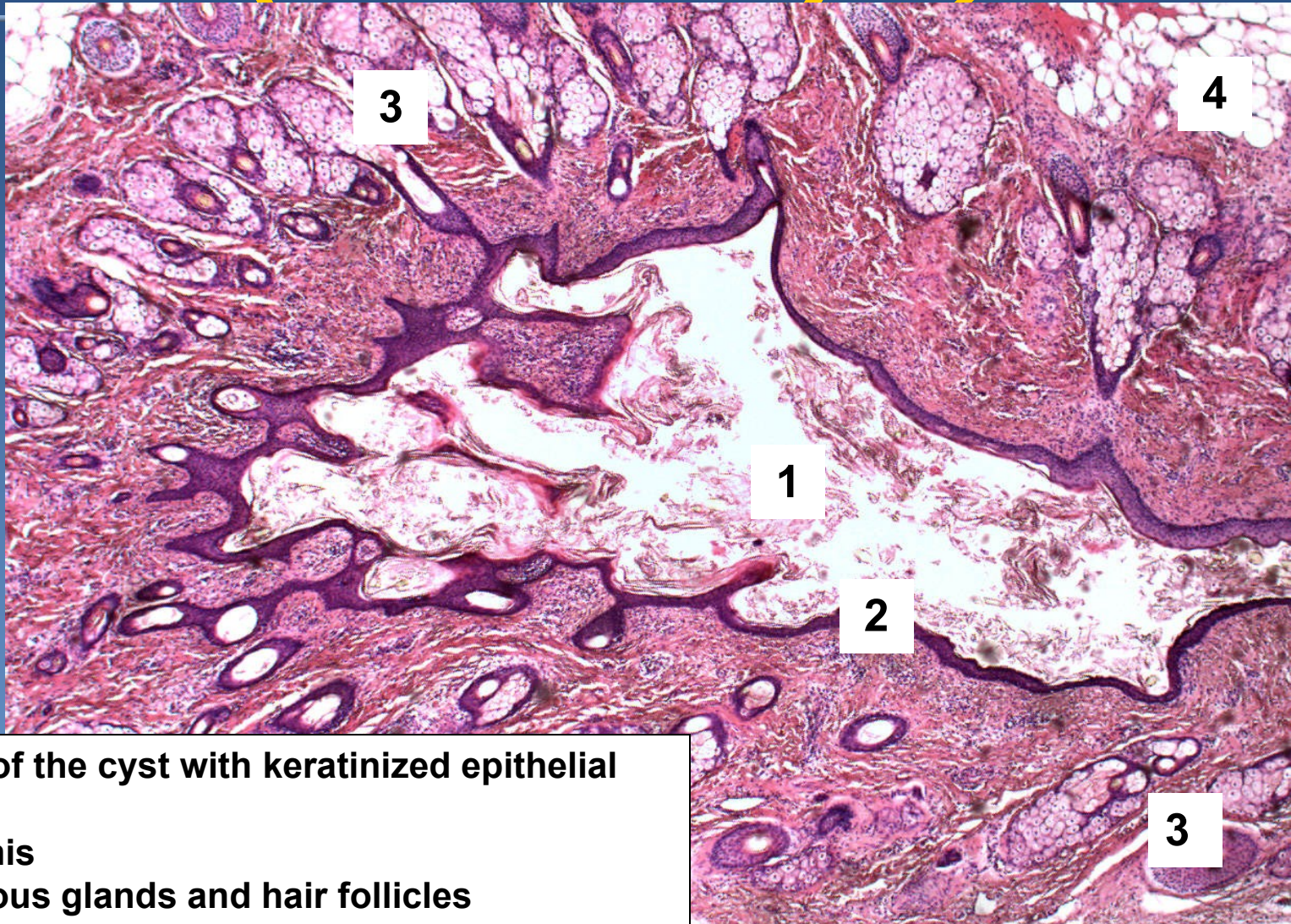
# 83. Ovarian fibroma



1 Tumor composed of stromal



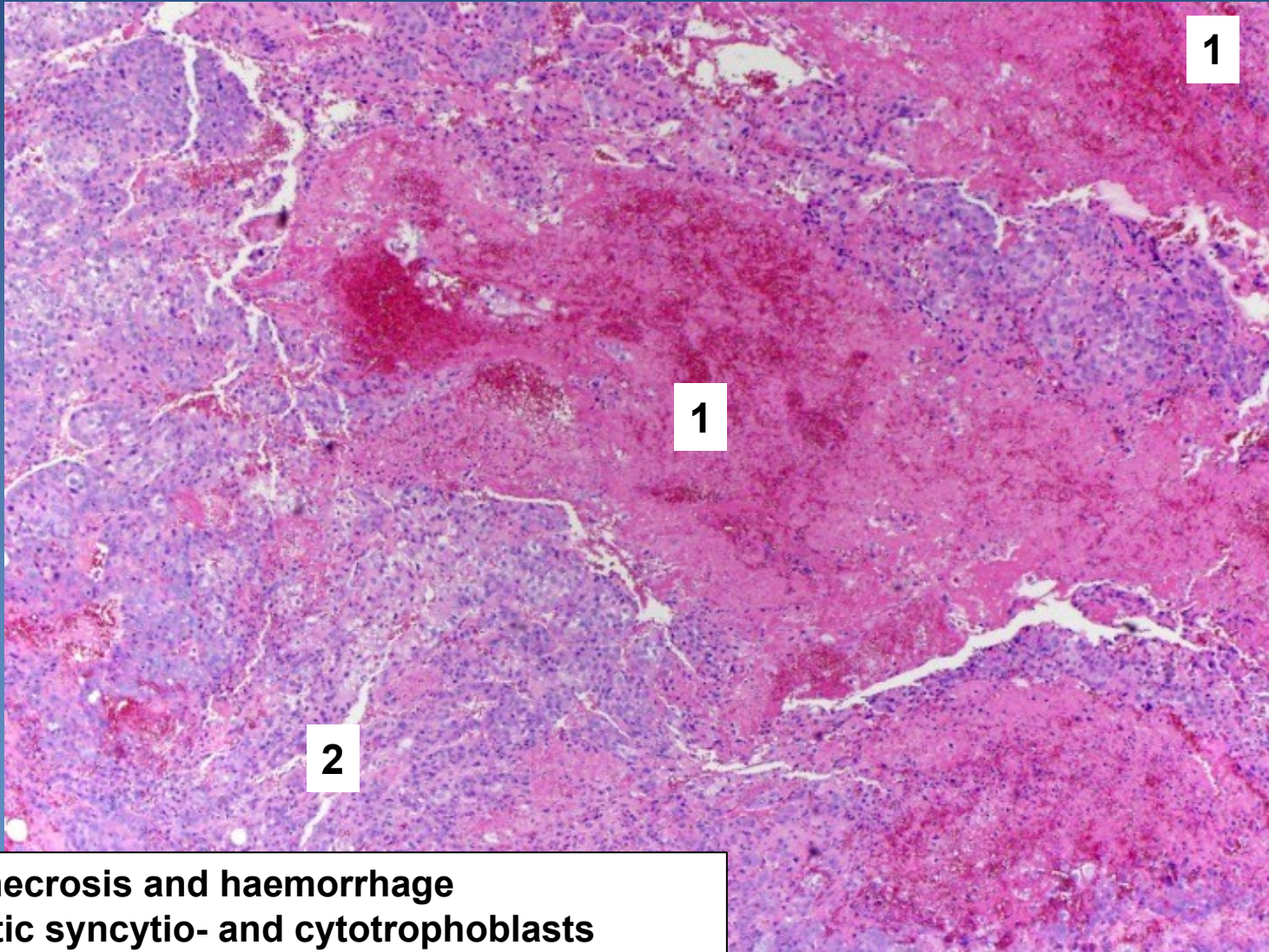
# 84. Mature teratoma (dermoid cyst)



- 1 Lumen of the cyst with keratinized epithelial cells
- 2 Epidermis
- 3 Sebaceous glands and hair follicles
- 4 Adipose tissue



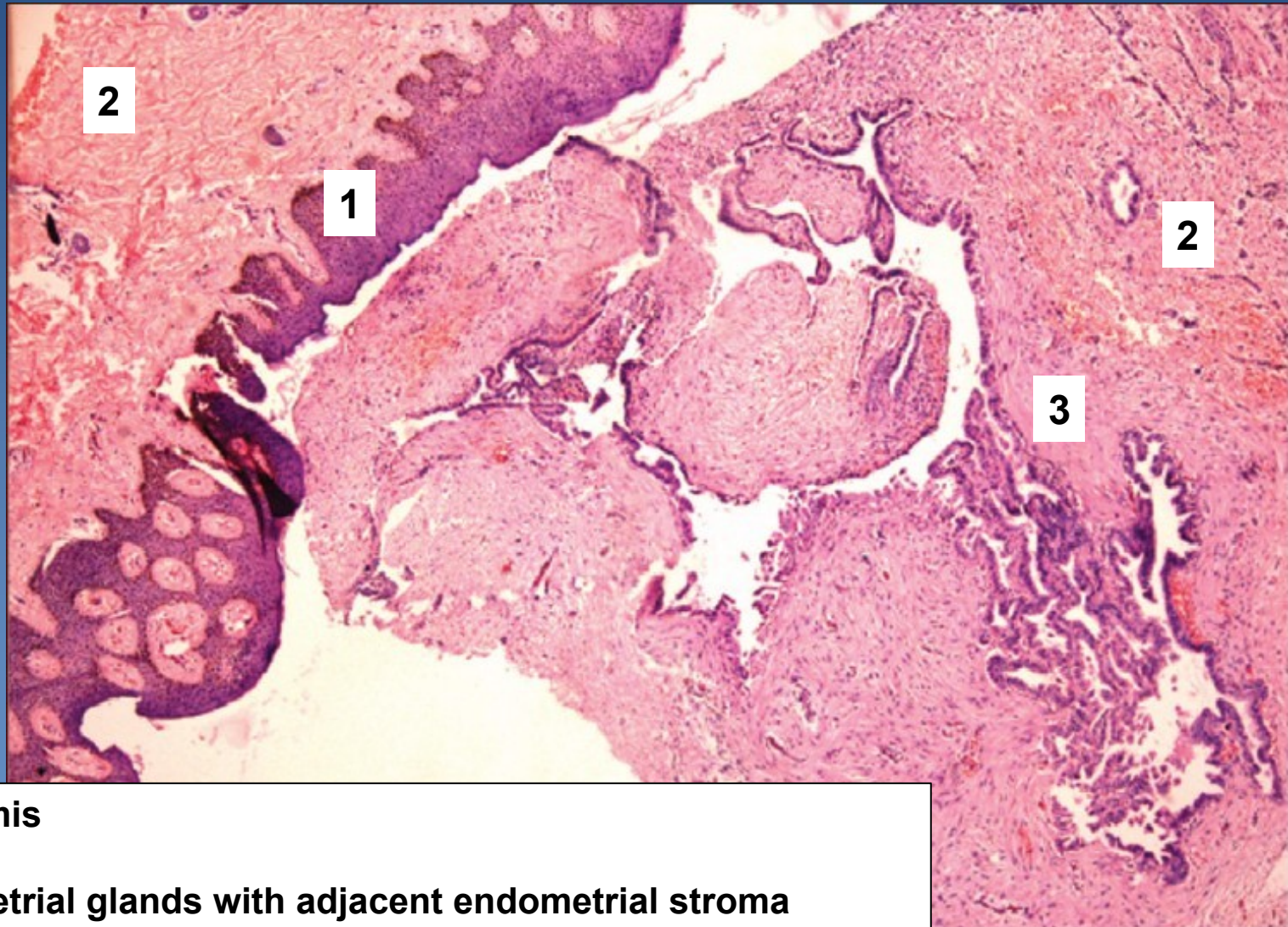
# 85. Choriocarcinoma – metastasis in skin



**1 Foci of necrosis and haemorrhage**  
**2 Anaplastic syncytio- and cytotrophoblasts**



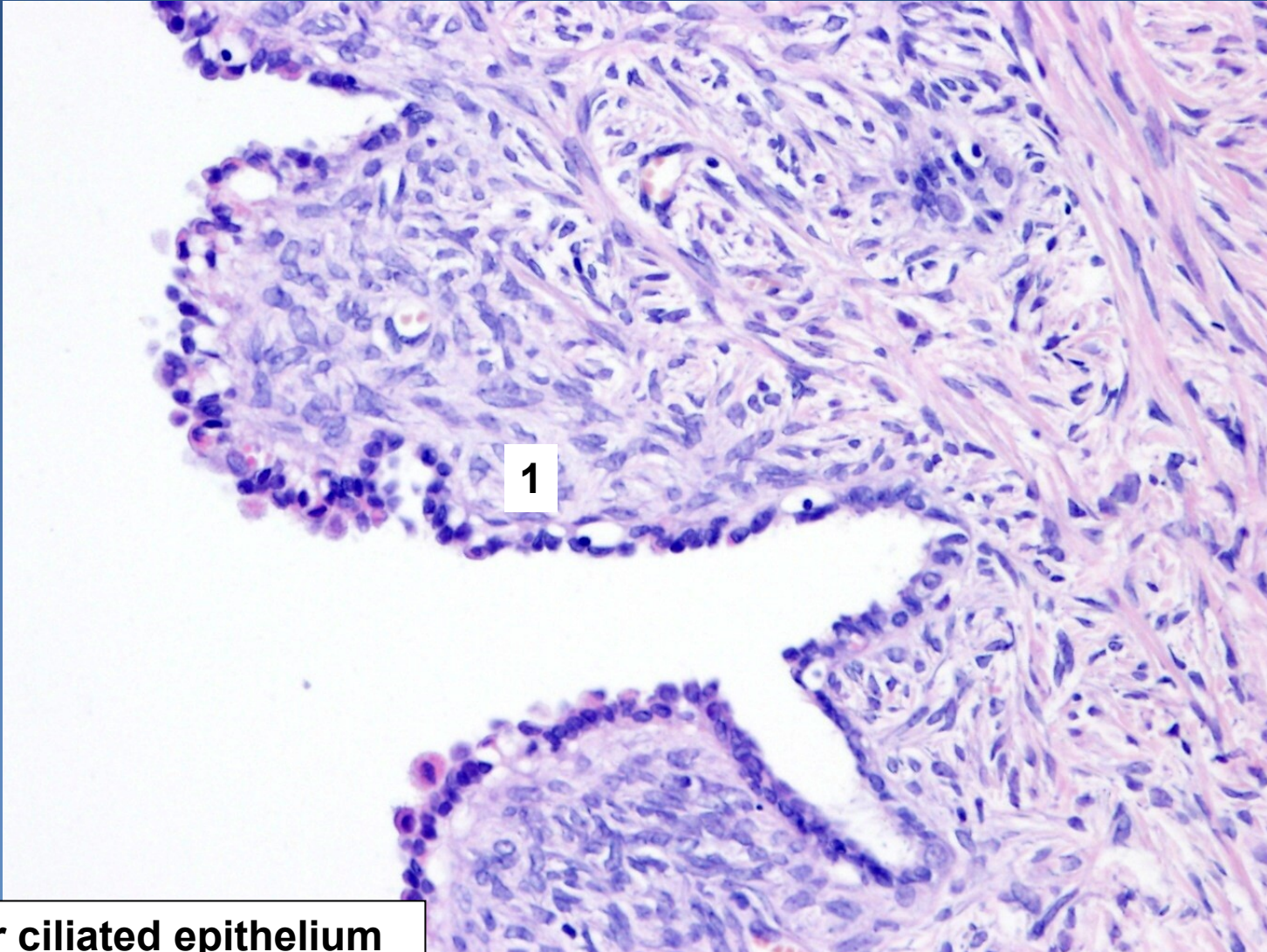
# 86. Endometriosis (in navel)



1 Epidermis  
2 Dermis  
3 Endometrial glands with adjacent endometrial stroma



# 87. Ovarian serous cystadenoma



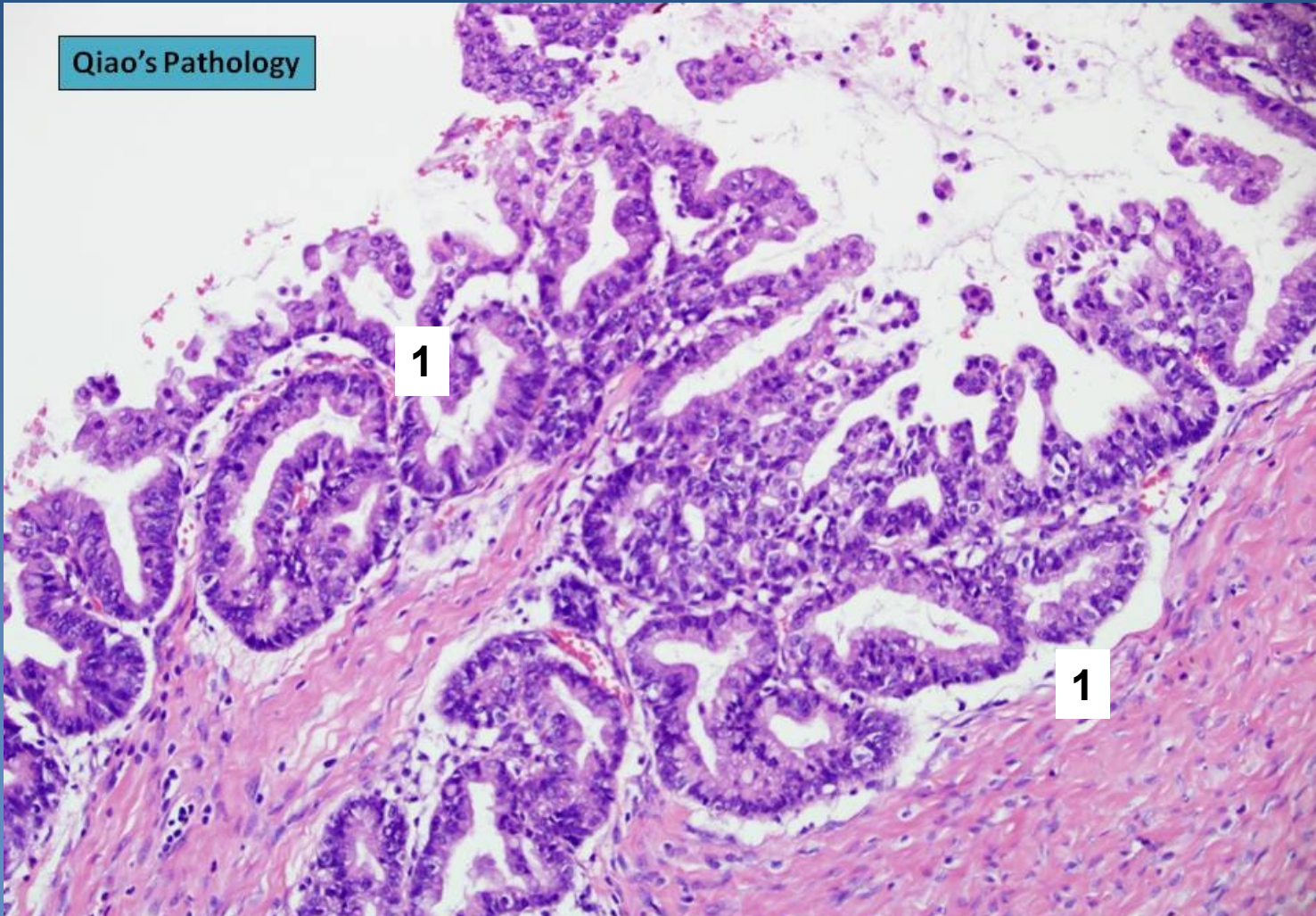
1 Columnar ciliated epithelium



# 88. Ovarian mucinous cystadenocarcinoma



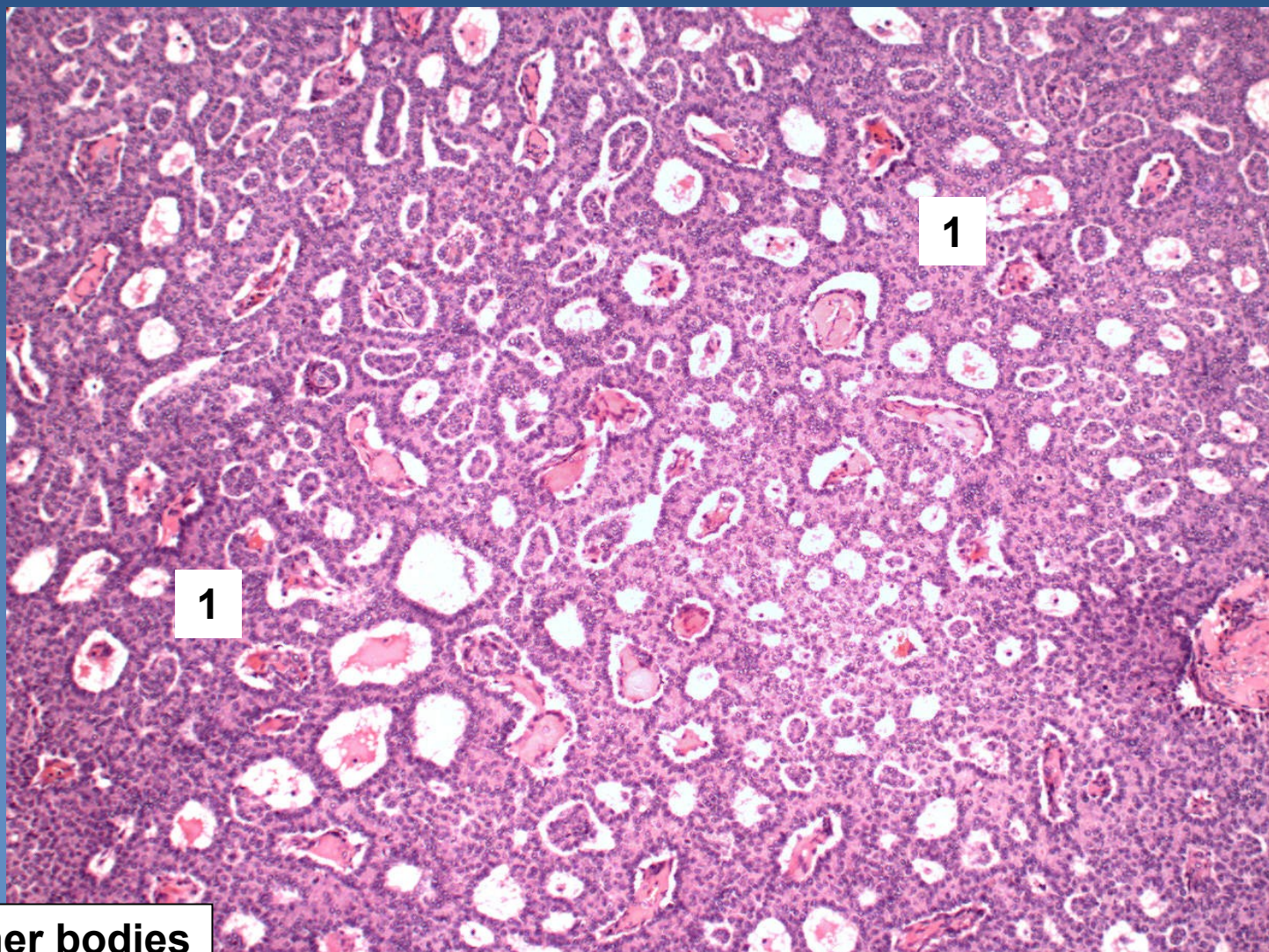
Qiao's Pathology



1 Columnar mucinous epithelium with cytonuclear atypia and mitoses



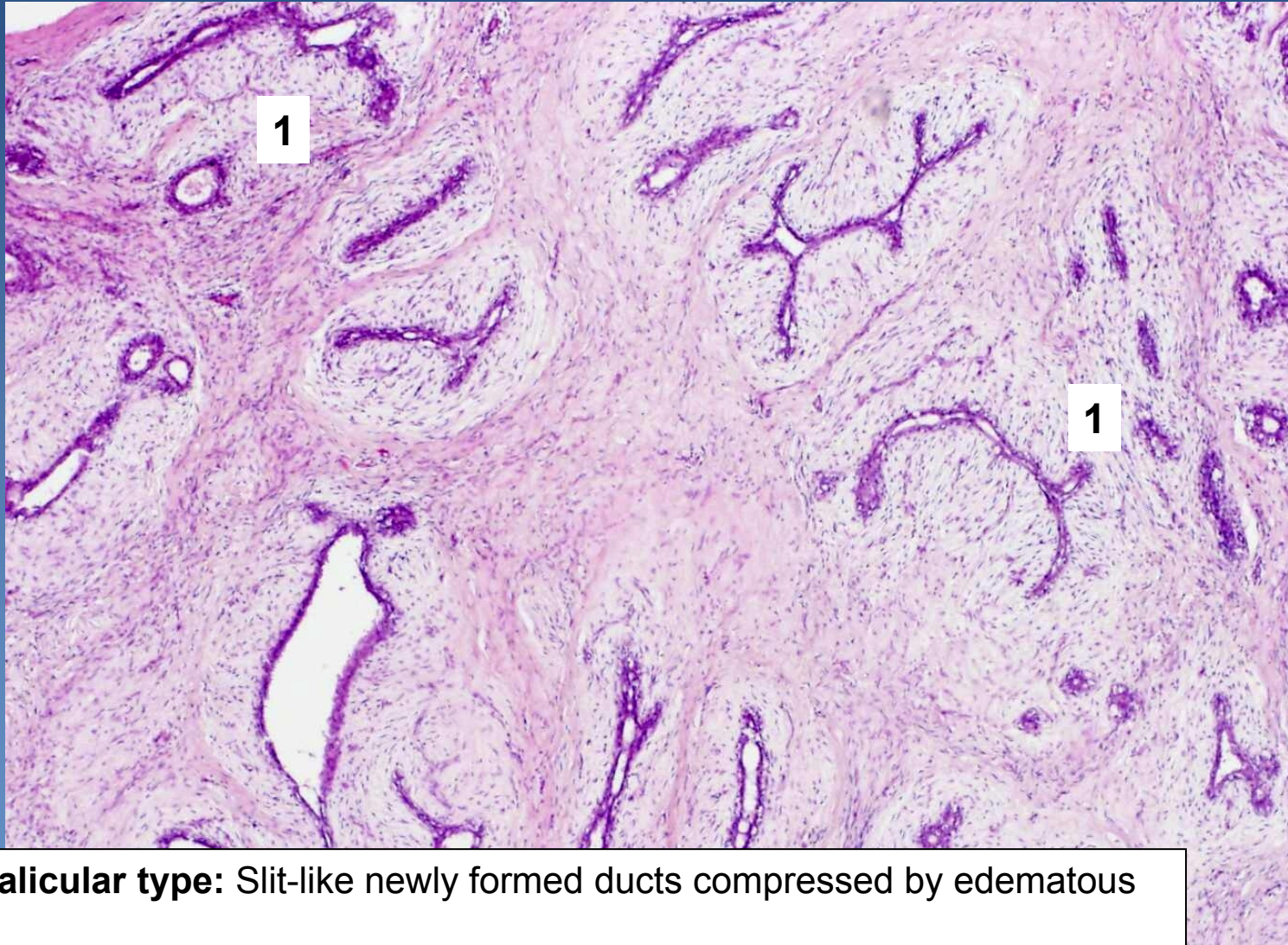
# 89. Granulosa cell tumor



1 Call-Exner bodies



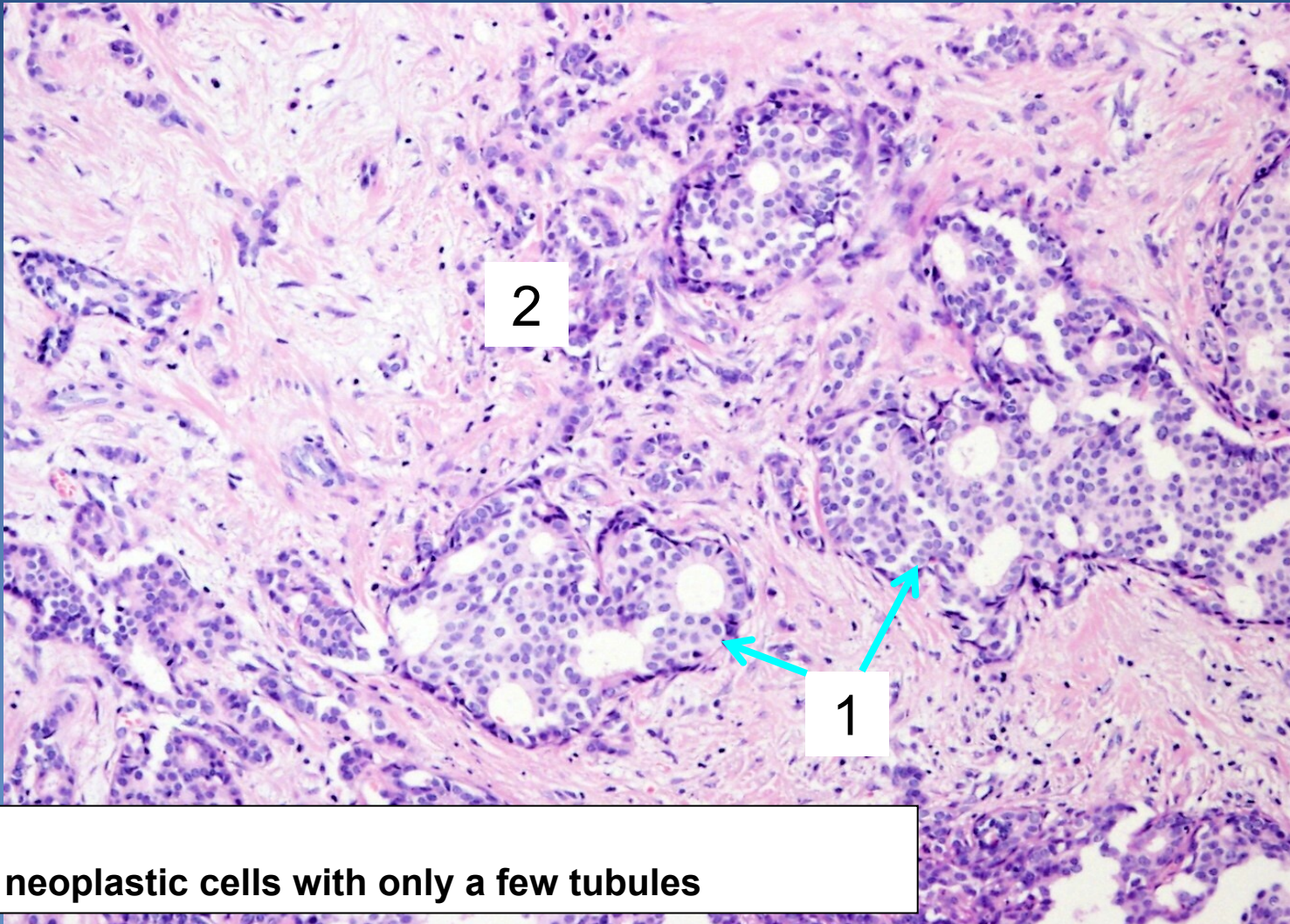
# 90. Fibroadenoma of mamma



**1 Intracanalicular type:** Slit-like newly formed ducts compressed by edematous stroma



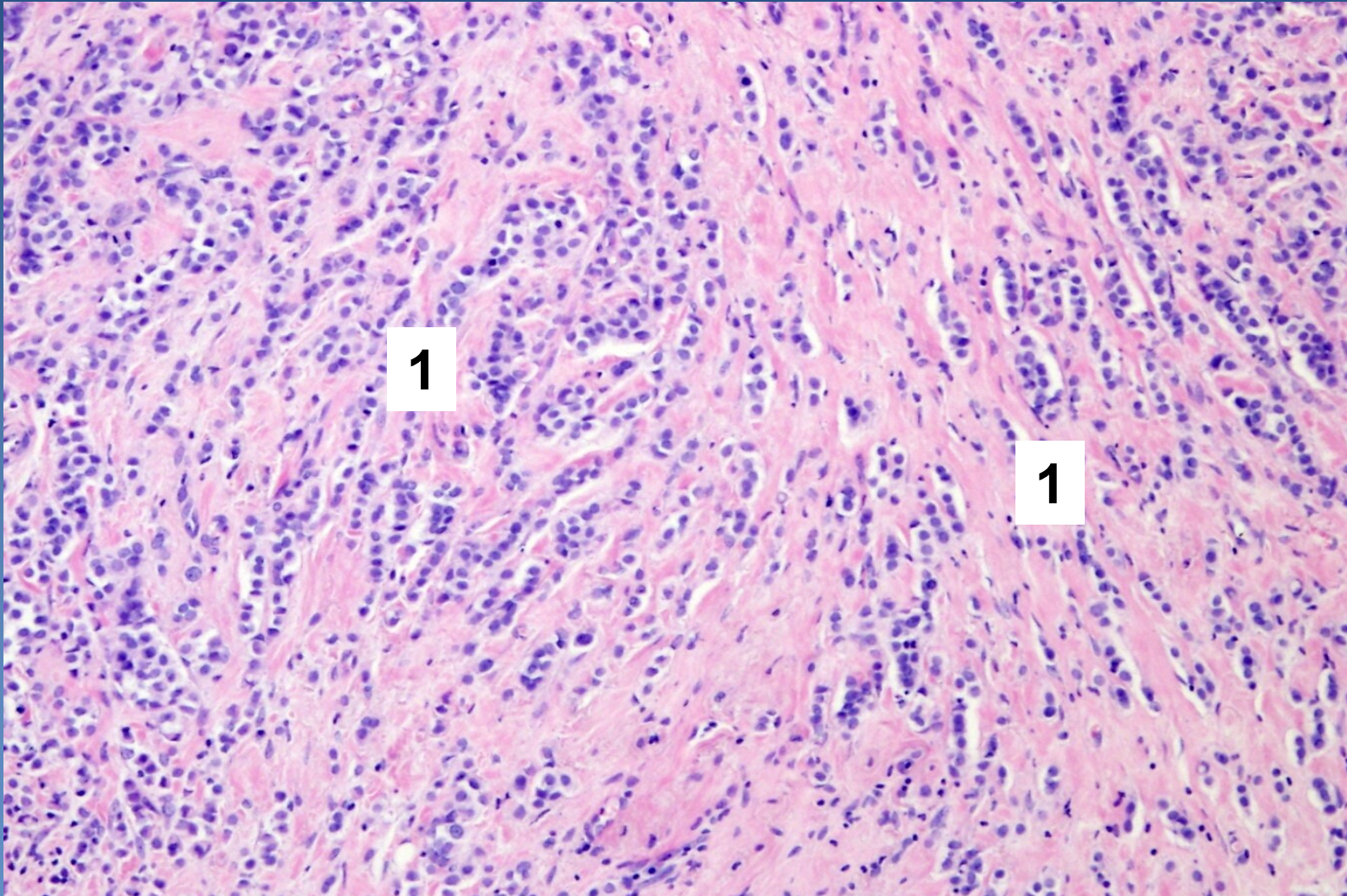
# 91. *Invazive carcinoma, NOS, of mamma (formerly known as invasive ductal cacrinoma)*



1 DCIS  
2 Cohesive neoplastic cells with only a few tubules



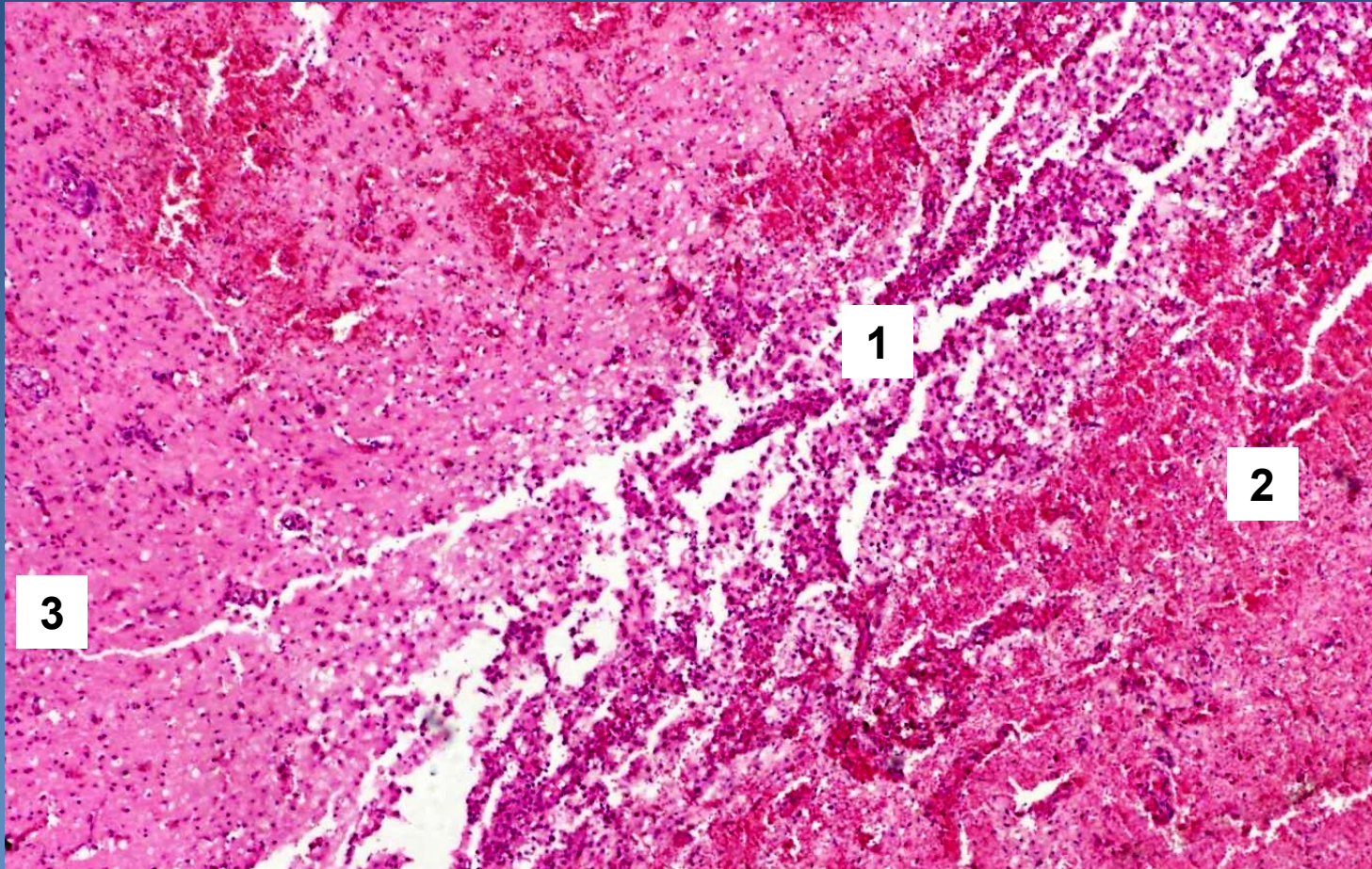
# 92. *Invasive lobular carcinoma of mamma*



1 Dyscohesive tumor cells forming single linear files („Indian file“)

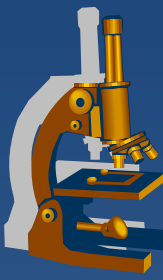


# 93. Encefalomalatia (of older date)



- 1 Macrophages with intracytoplasmic deposits of lipid products of myelin breakdown
- 2 Haemorrhagic infarction





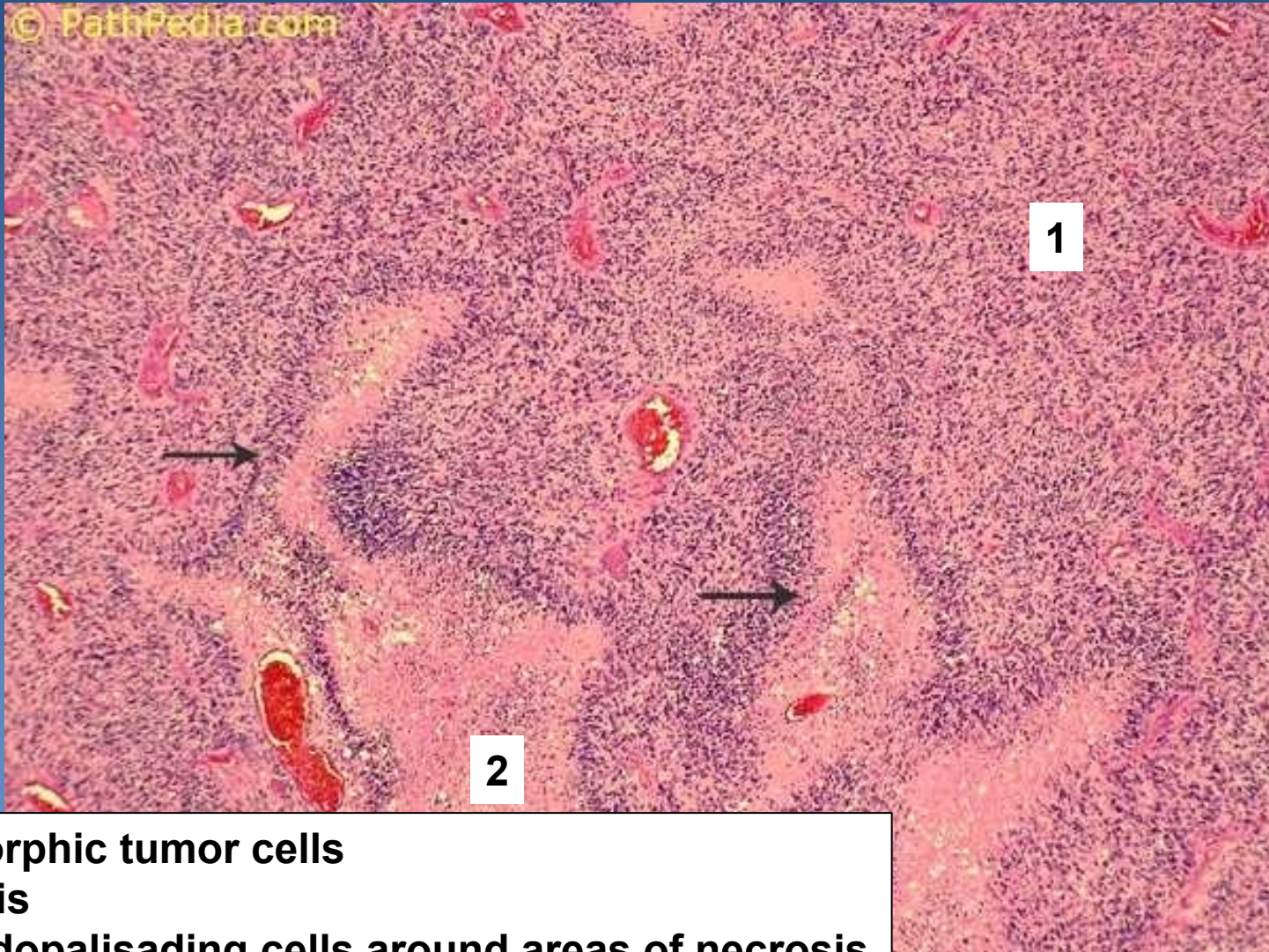
# 94. Purulent leptomeningitis



- 1 Brain tissue with oedema
- 2 Neutrophils
- 3 Dilated hyperaemic arteriolar in pia mater



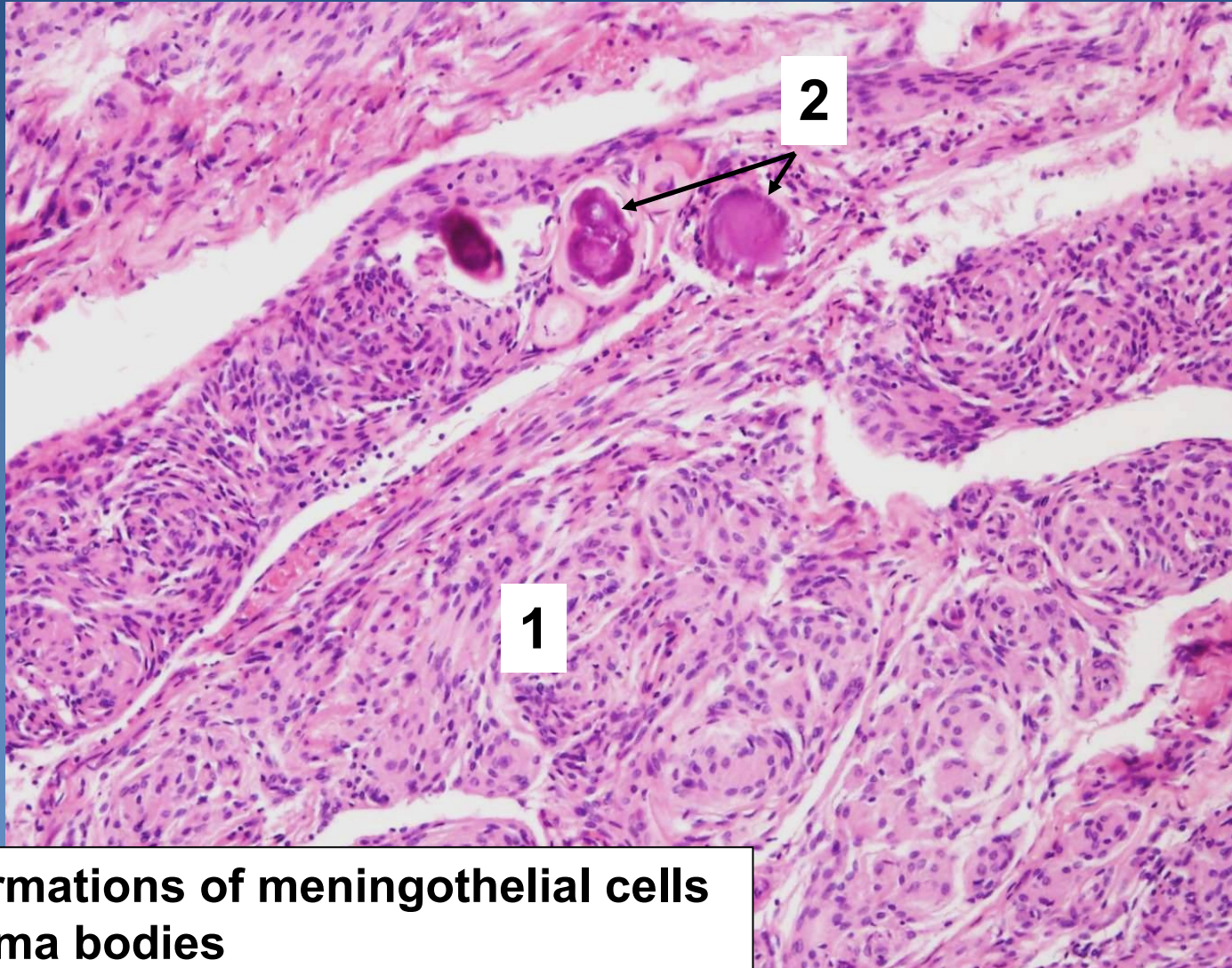
# 95. Glioblastoma multiforme



**1 Pleomorphic tumor cells**  
**2 Necrosis**  
—→ Pseudopalisading cells around areas of necrosis



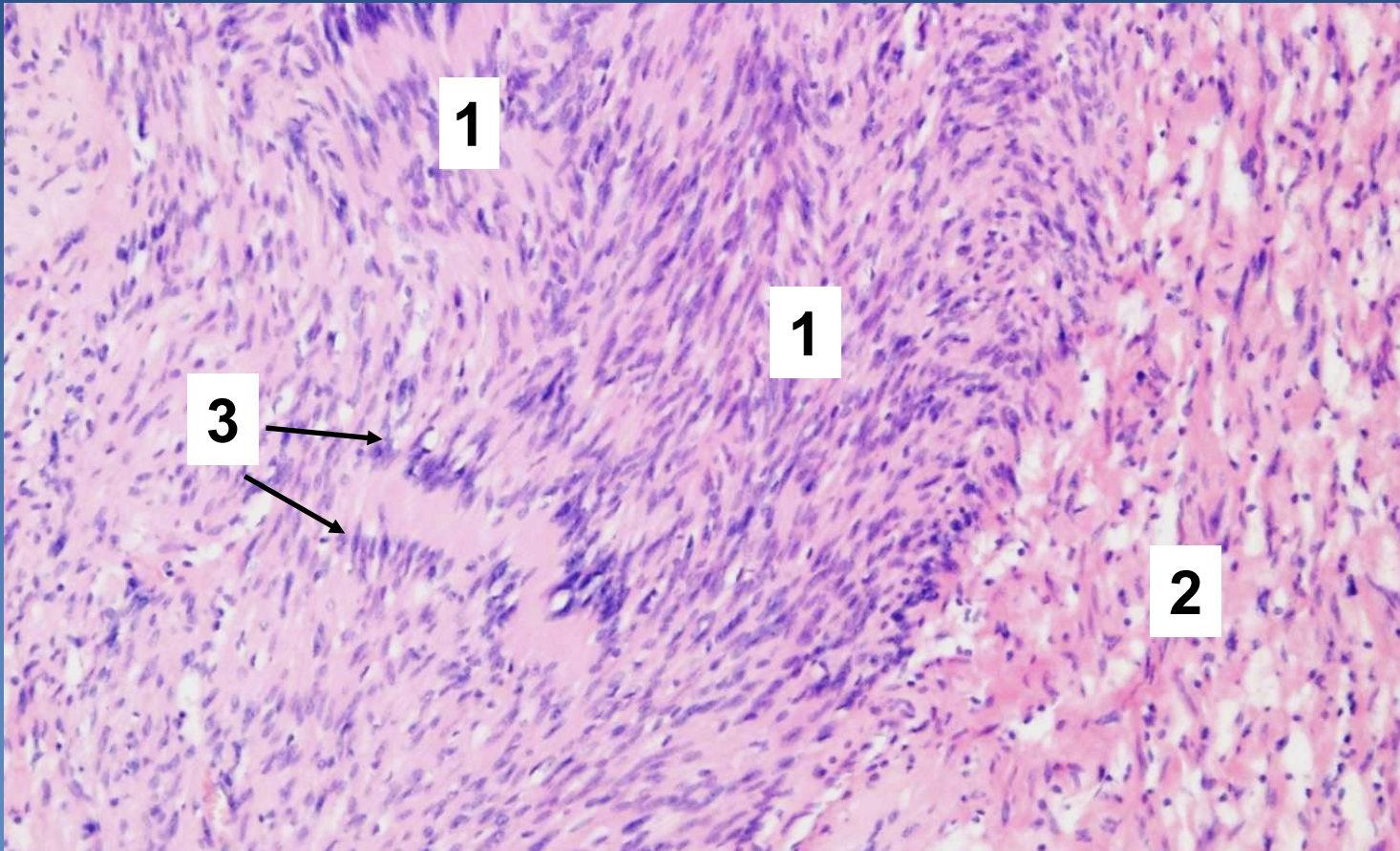
# 96. Meningeoma



**1 Whorl formations of meningothelial cells**  
**2 Psammoma bodies**



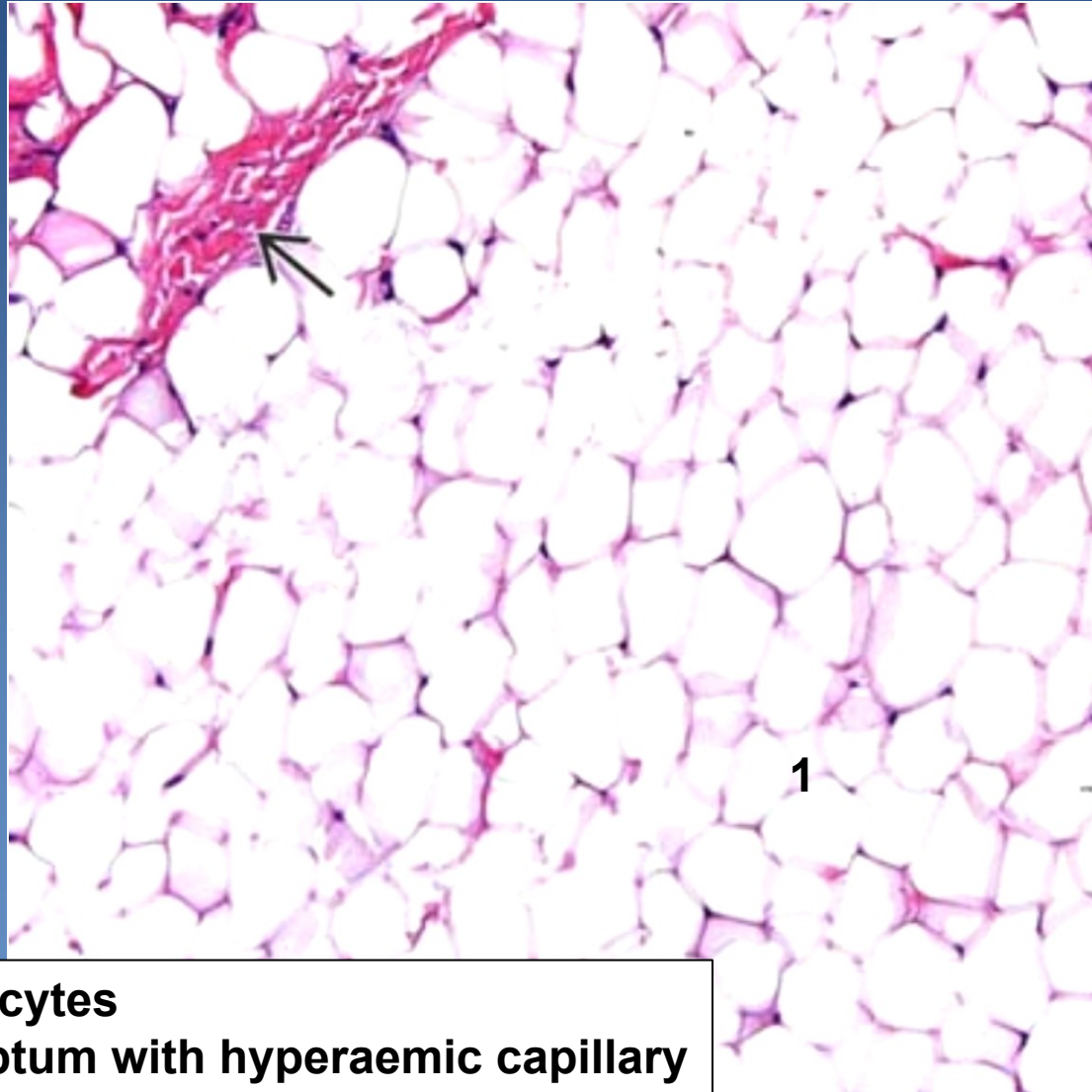
# 97. *Neurinoma/ Schwannoma*



- 1 Antoni A
- 2 Antoni B (hypocellular, with myxoid degeneration)
- 3 Nuclear palisading



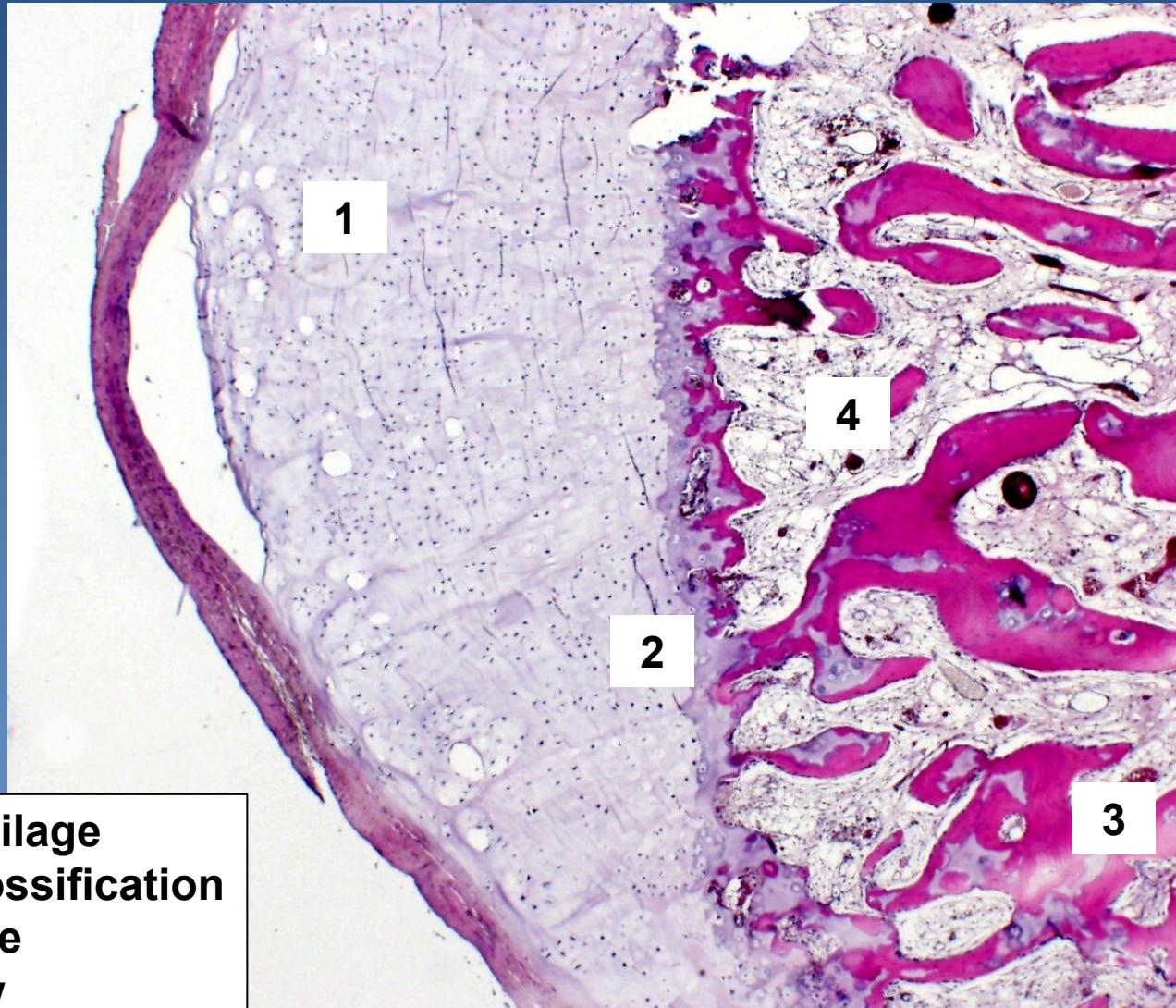
# 98. Lipoma



**1** Mature adipocytes  
**➡** fibrotic septum with hyperaemic capillary



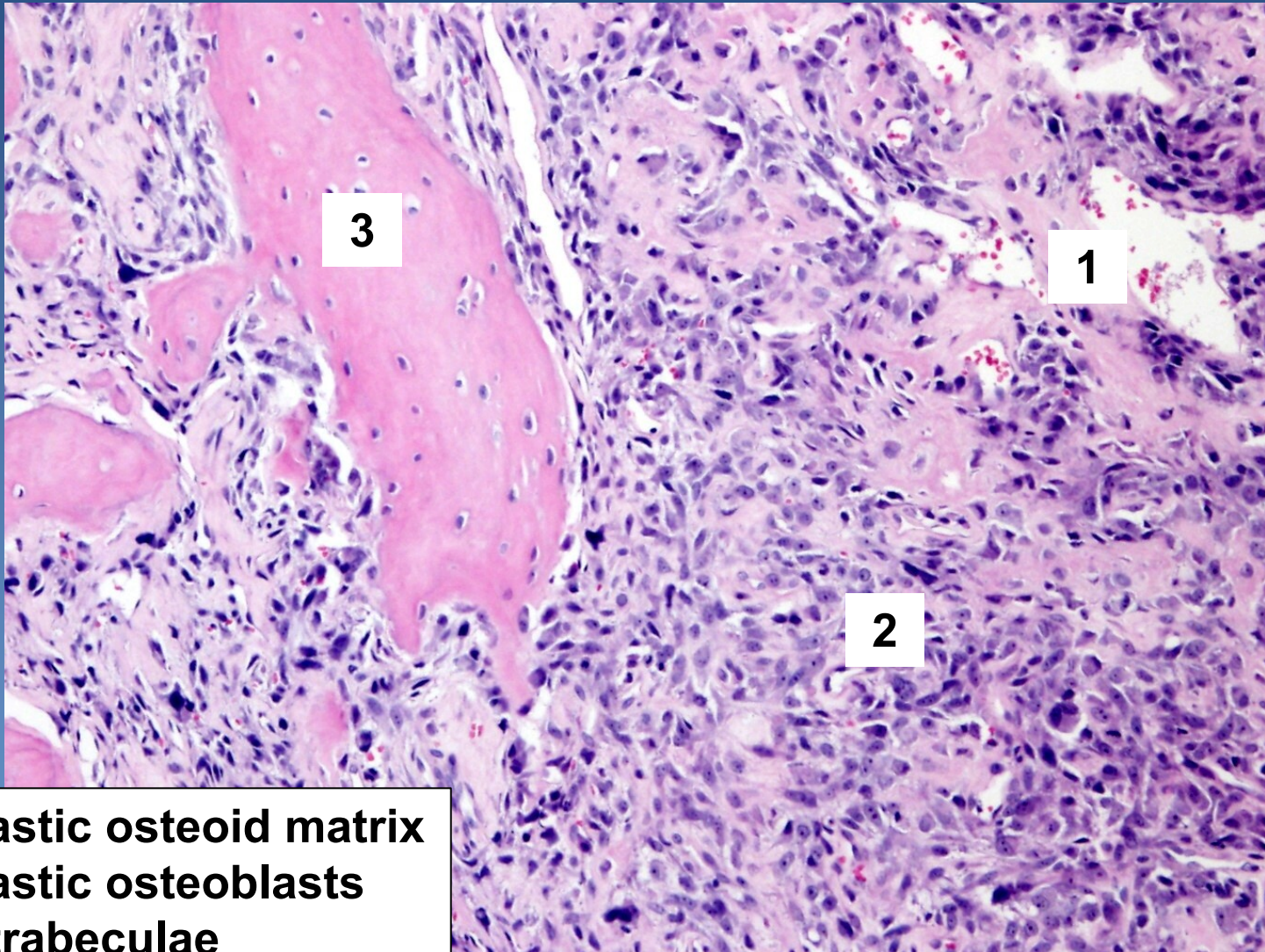
# 99. Osteochondroma



- 1 Hyaline cartilage
- 2 Enchondral ossification
- 3 Lamellar bone
- 4 Bone marrow



# 100. High-grade osteosarcoma



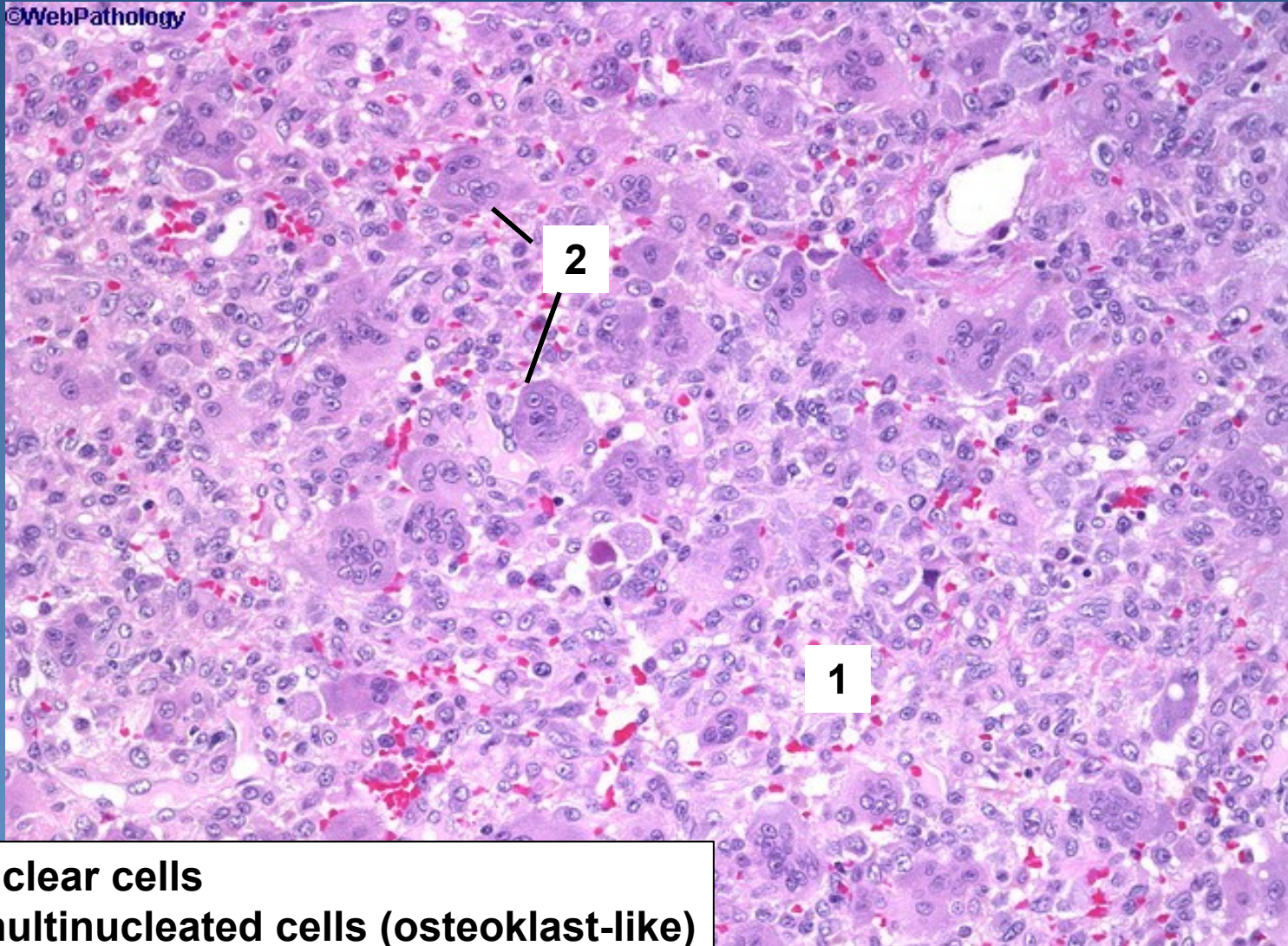
- 1 Neoplastic osteoid matrix
- 2 Neoplastic osteoblasts
- 3 Bone trabeculae



# 101. Giant-cell tumor of the bone



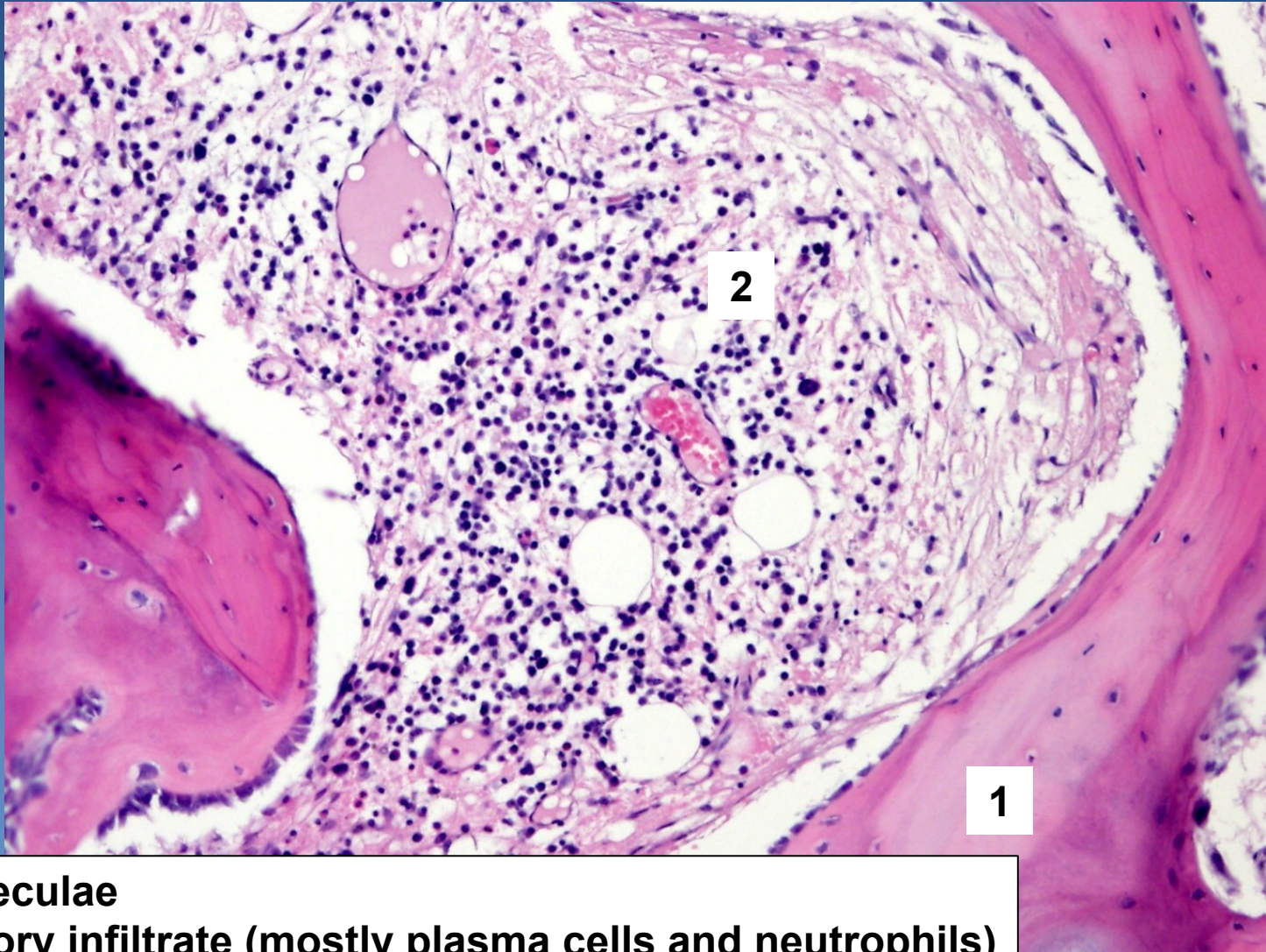
©WebPathology



- 1 Mononuclear cells
- 2 Giant multinucleated cells (osteoclast-like)



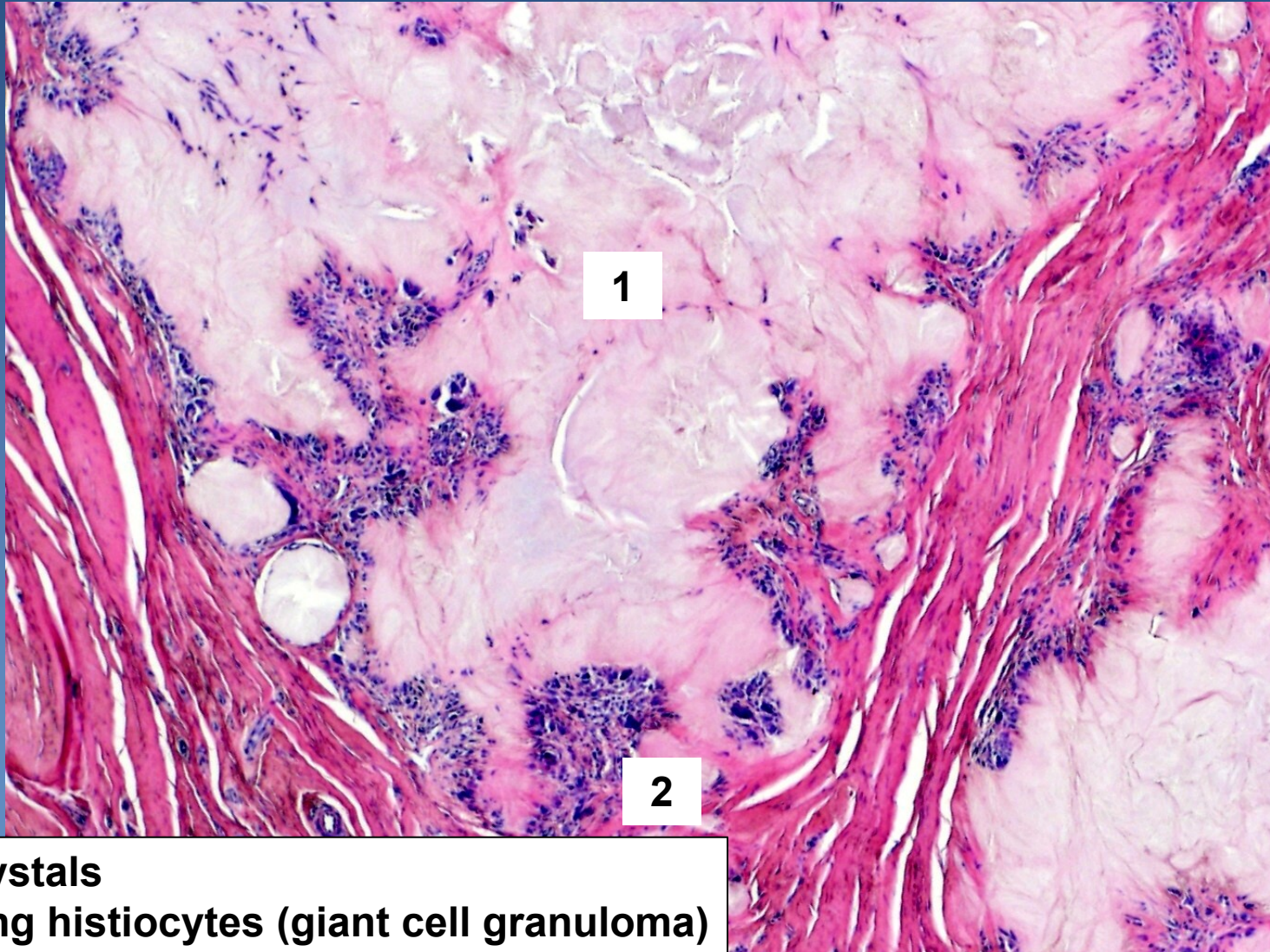
# 102. Chronic purulent osteomyelitis



**1 Bone trabeculae**  
**2 Inflammatory infiltrate (mostly plasma cells and neutrophils)**



# 103. *Tophus in arthritis uratica*



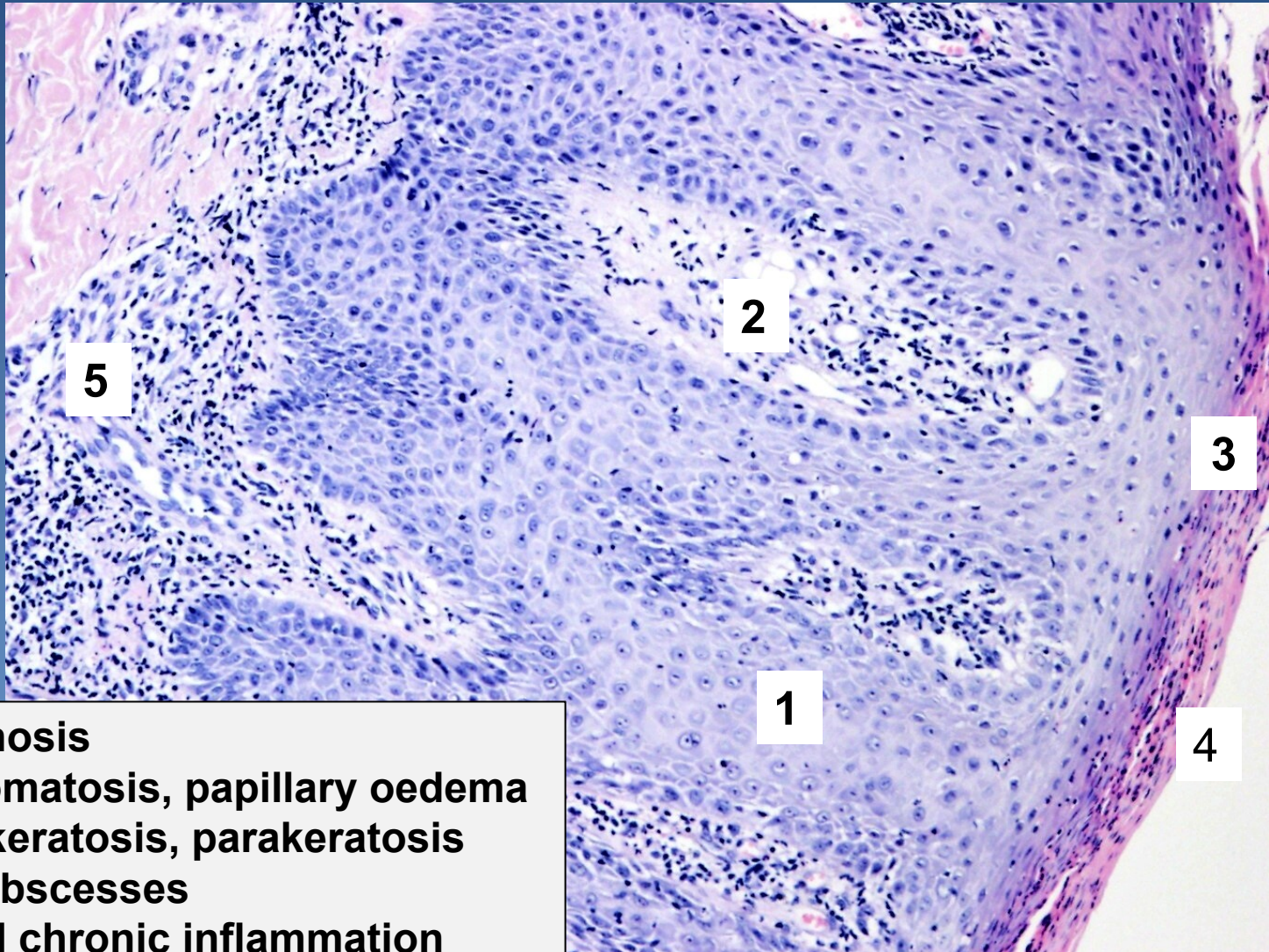
1

2

**1 Urate crystals**  
**2 Palisading histiocytes (giant cell granuloma)**



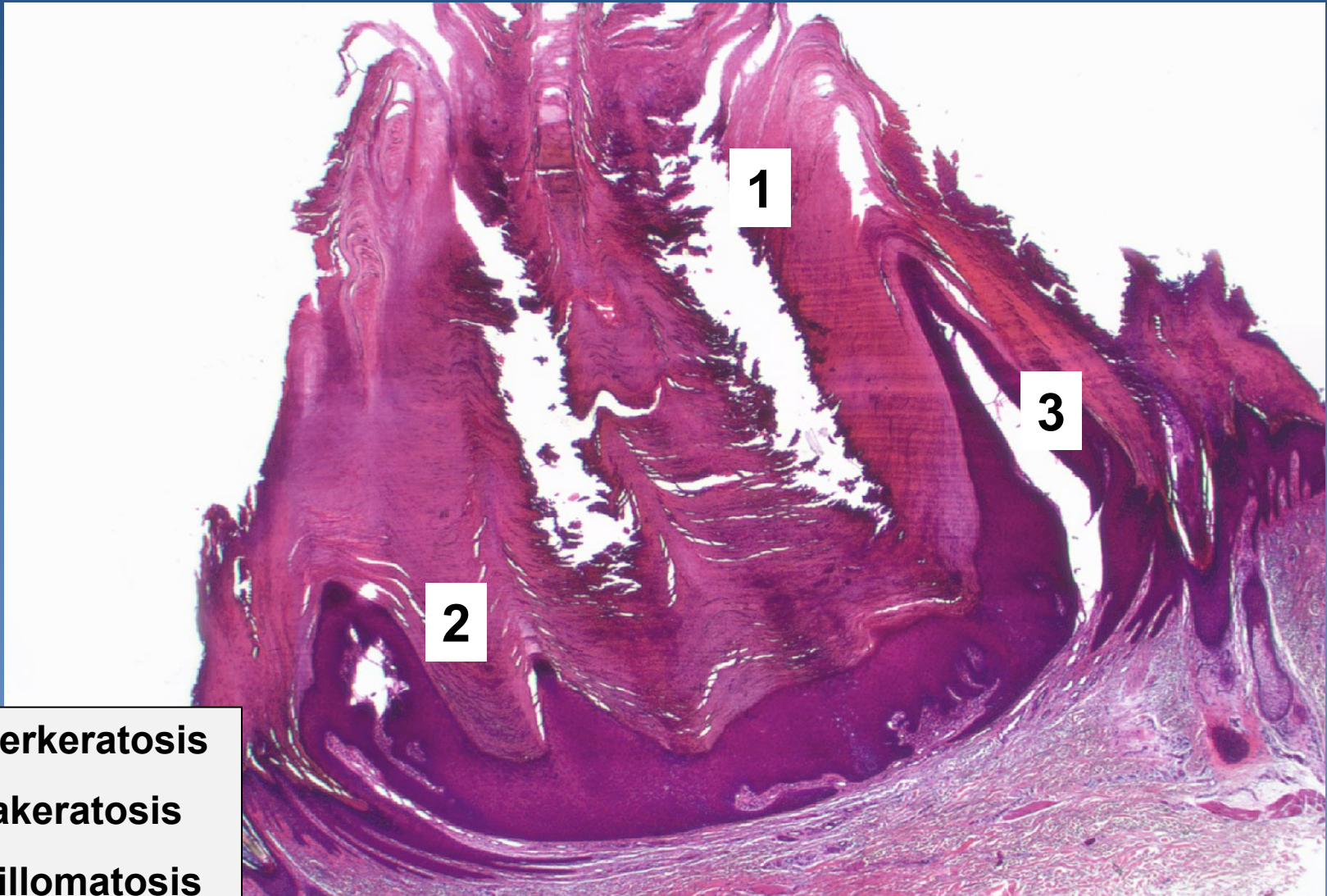
# 104. Psoriasis



- 1 Acanthosis
- 2 Papillomatosis, papillary oedema
- 3 Hyperkeratosis, parakeratosis
- 4 Microabscesses
- 5 Dermal chronic inflammation



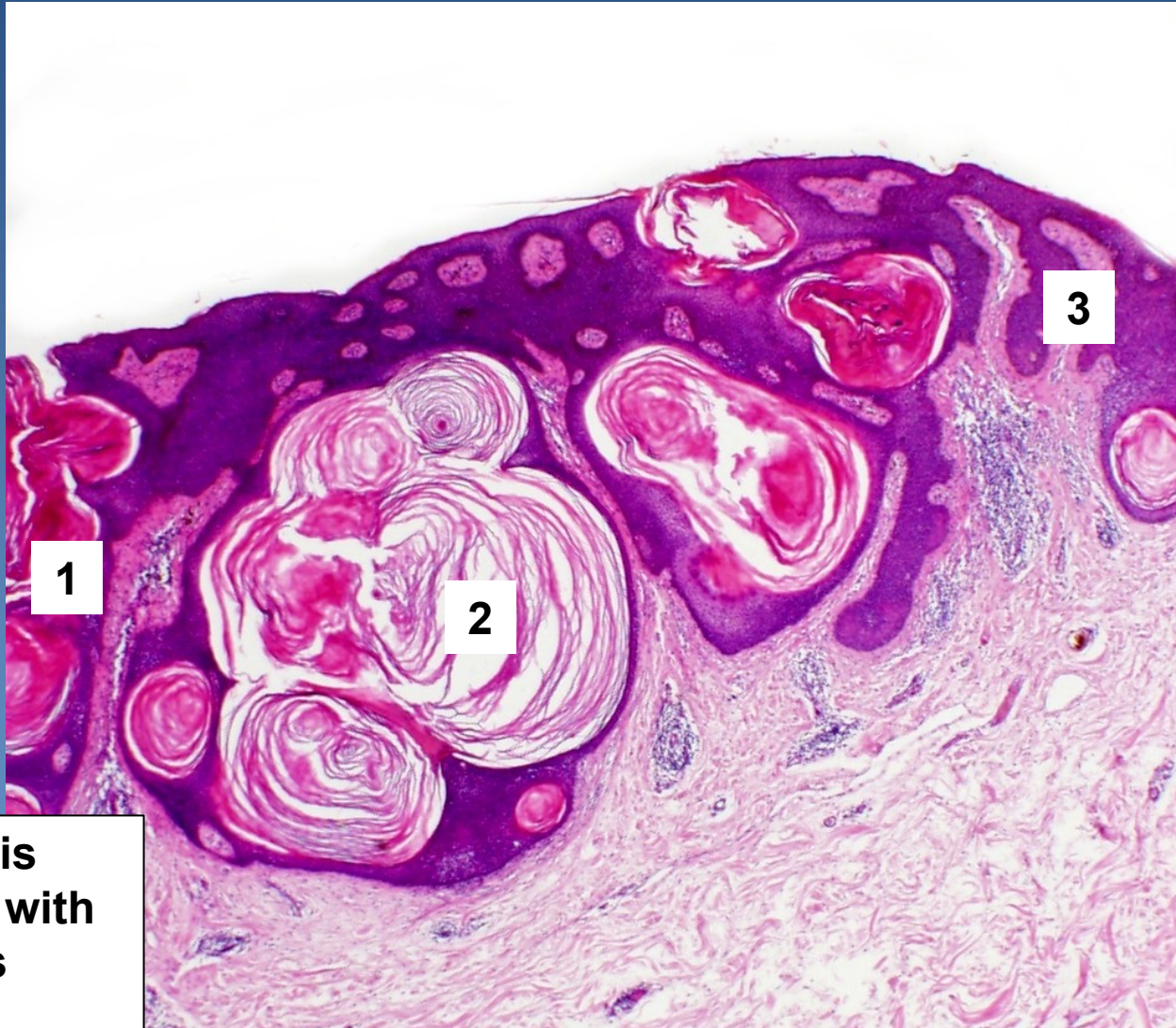
# 105. *Verruca vulgaris*



- 1 Hyperkeratosis
- 2 Parakeratosis
- 3 Papillomatosis



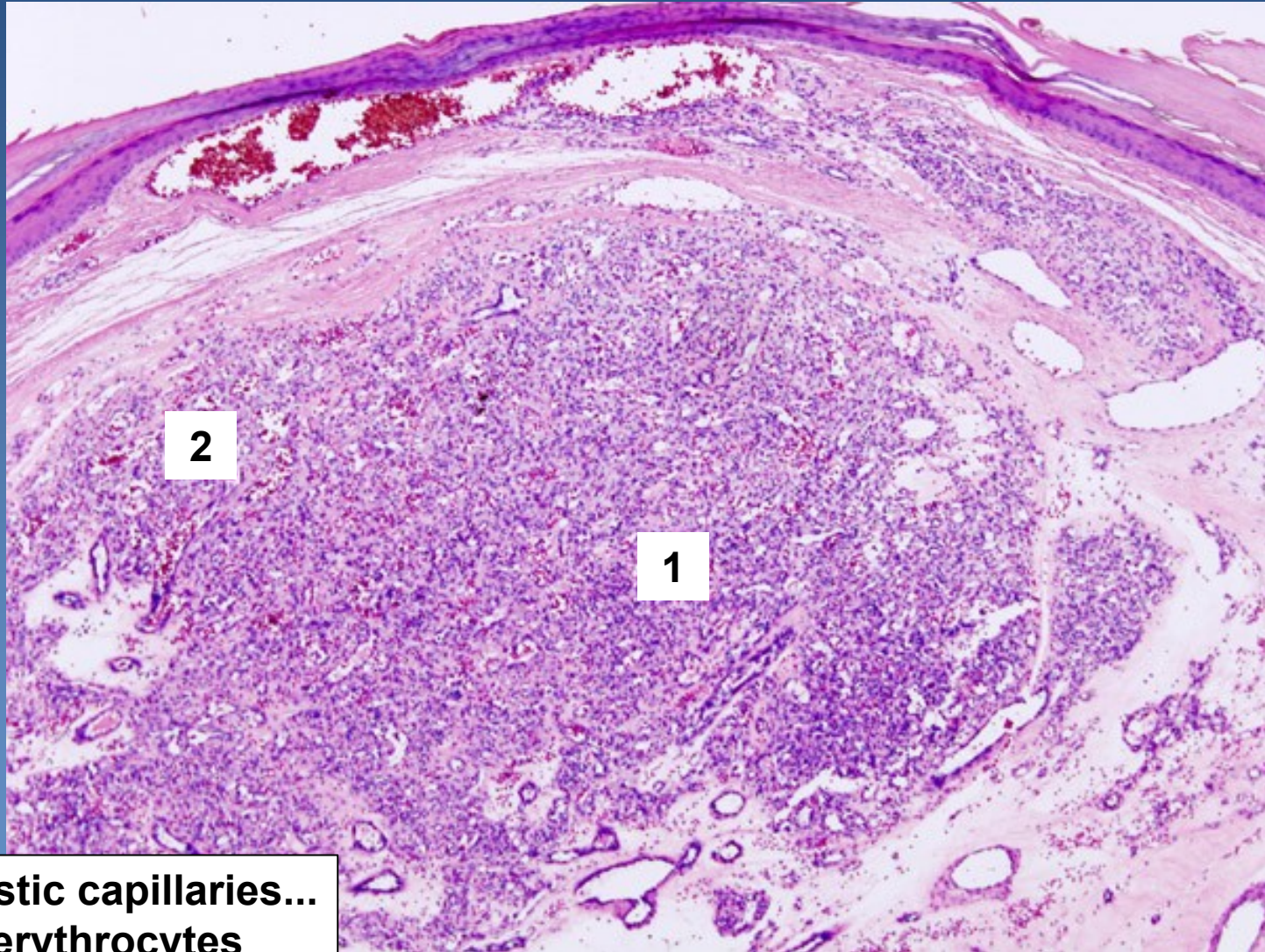
# 106. Seborrheic keratosis



- 1 Papillomatosis
- 2 "horn" cysts with keratin masses
- 3 Acanthosis



# 107. Capillary hemangioma of the skin



1 Neoplastic capillaries...  
2 ...with erythrocytes



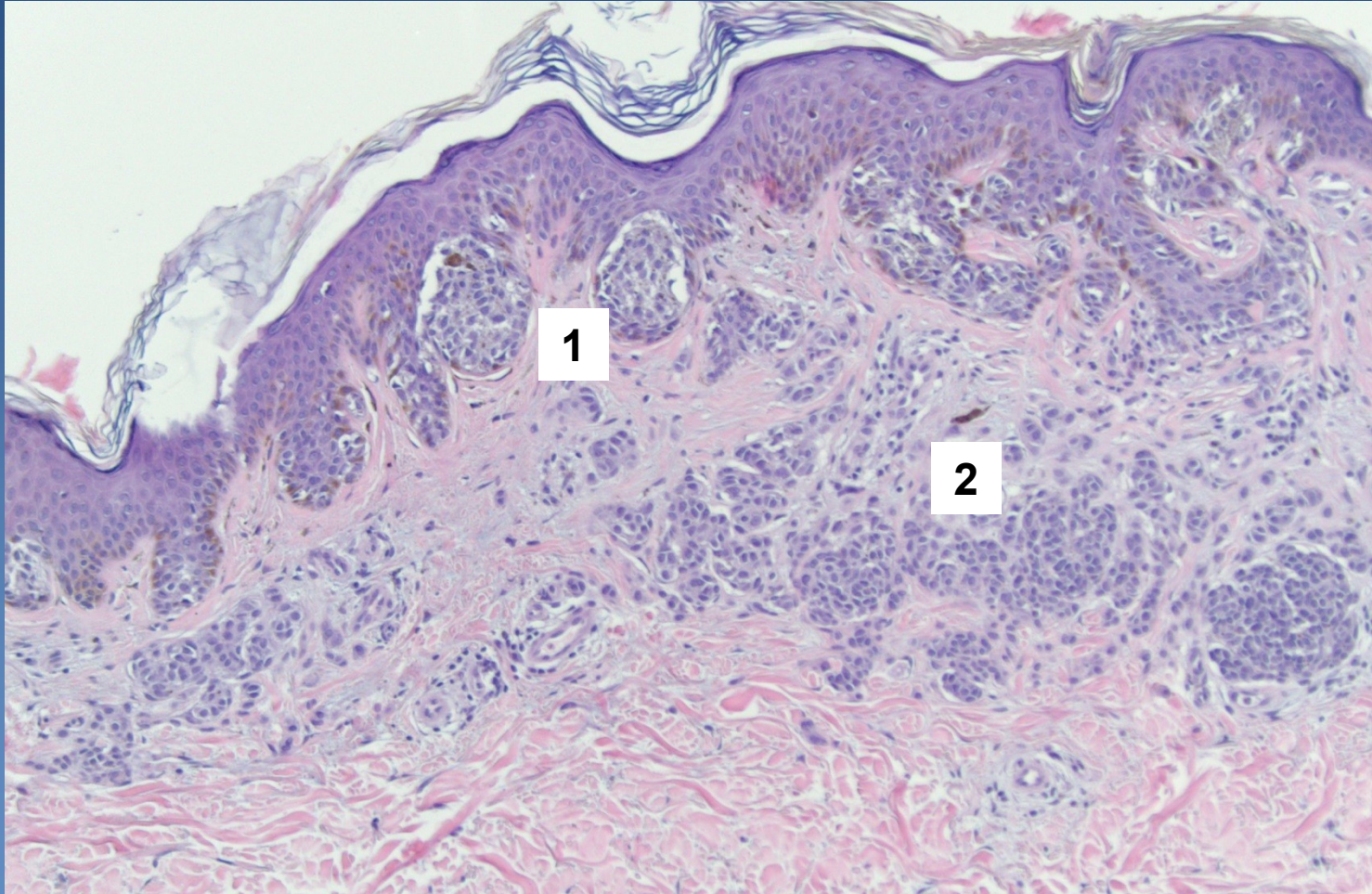
# 108. Basal cell carcinoma of the skin



1 Peripheral palisading of atypical basaloid cells

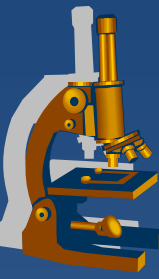


# 109. Compound pigmented naevus

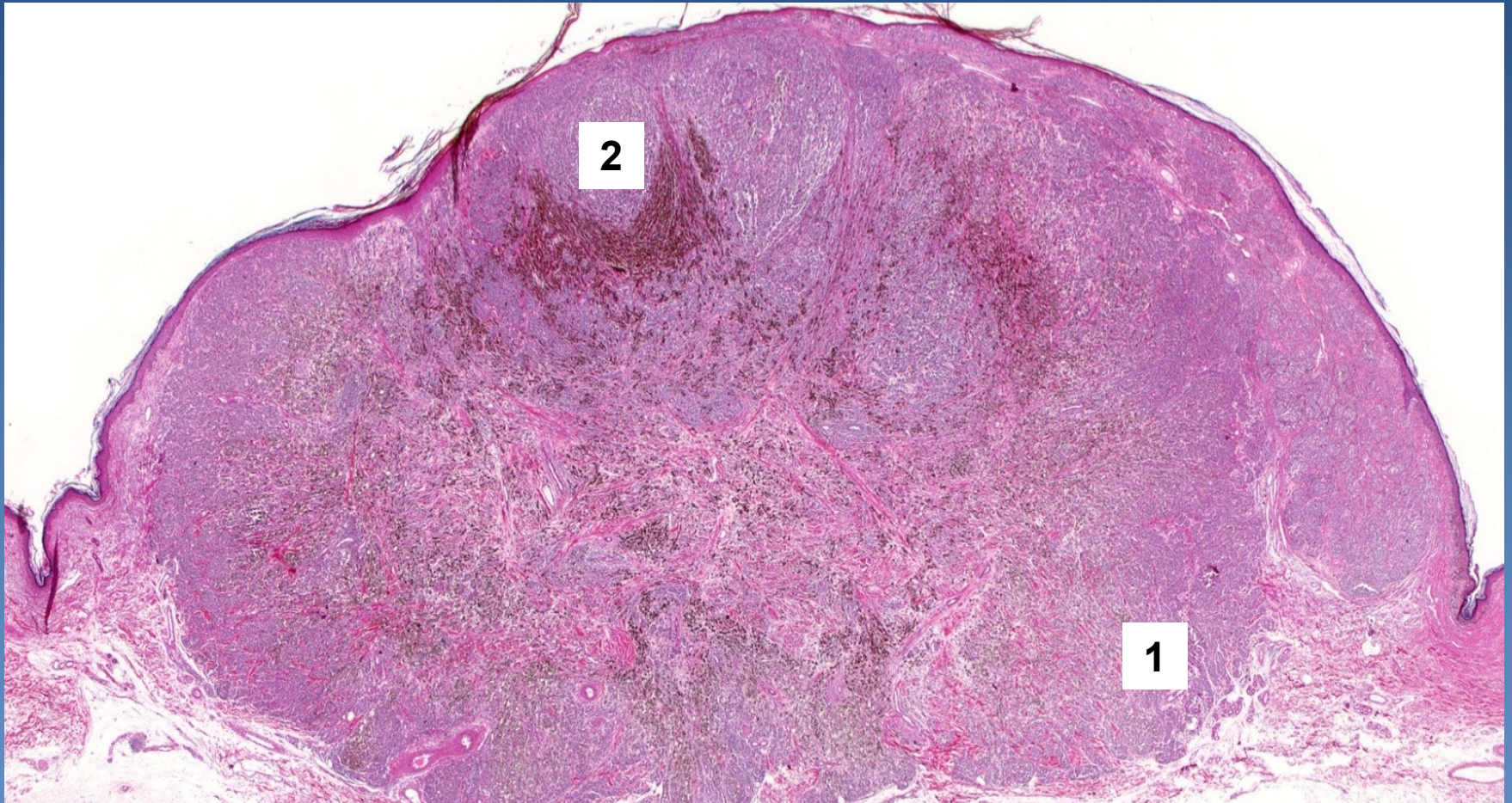


- 1 Nests of melanocytes in dermoepidermal junction
- 2 Nests of melanocytes in the dermis





# 110. Malignant melanoma



- 1 Neoplastic melanocytes in the dermis with infiltration of adipose tissue
- 2 Focally increased melanin production