



**What kind of inflammatory  
changes can we find  
in different ILDs?  
Are they disease specific?**

**Radoslav Matěj**

Department of Pathology and Molecular Medicine

Thomayer Hospital, Prague

**What kind of inflammatory  
changes can we find  
in different ILDs?**

**ALL!**

**Are they disease specific?**

**NO!**

Let's go for a Czech beer!



# However...

- Inflammatory changes are very important morphological clue
- Need to ask 4 easy questions:

Where

Which

How much

How long/treatment

# ATS/ERS: Clinical Diagnosis

## Pathology Diagnosis

- Idiopathic pulmonary fibrosis  
Usual Interstitial Pneumonia - UIP
- Desquamative interstitial pneumonia  
Desquamative Interstitial Pneumonia - DIP
- Respiratory bronchiolitis interstitial lung disease  
Respiratory Bronchiolitis - RB (-ILD)
- Acute interstitial pneumonia  
Diffuse Alveolar Damage - DAD
- Non-specific interstitial pneumonia  
Non-specific Interstitial Pneumonia - NSIP
- Cryptogenic organizing pneumonia  
Organizing Pneumonia - OP

# Where

- Distribution of inflammatory cells:

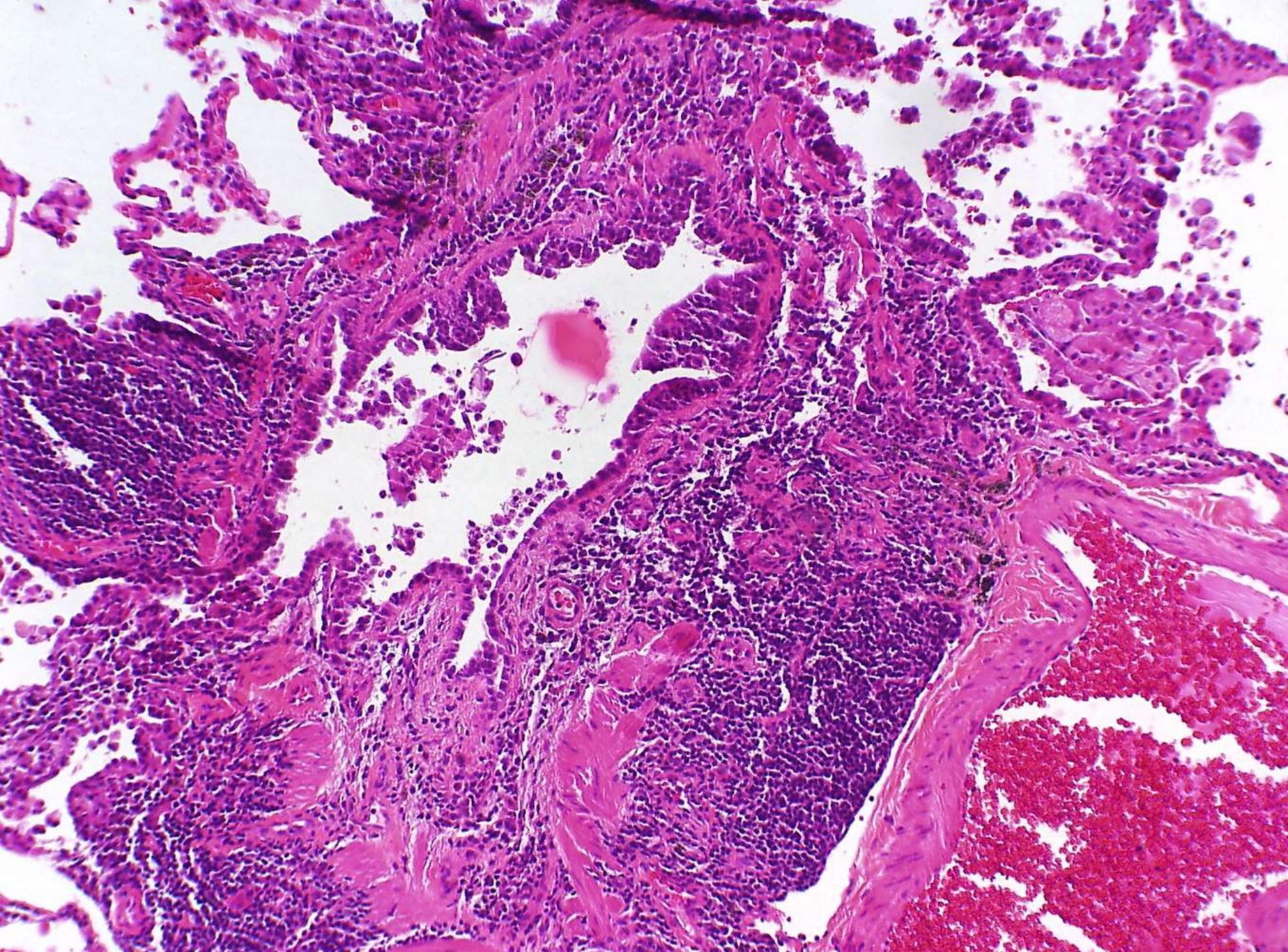
Bronchocentric

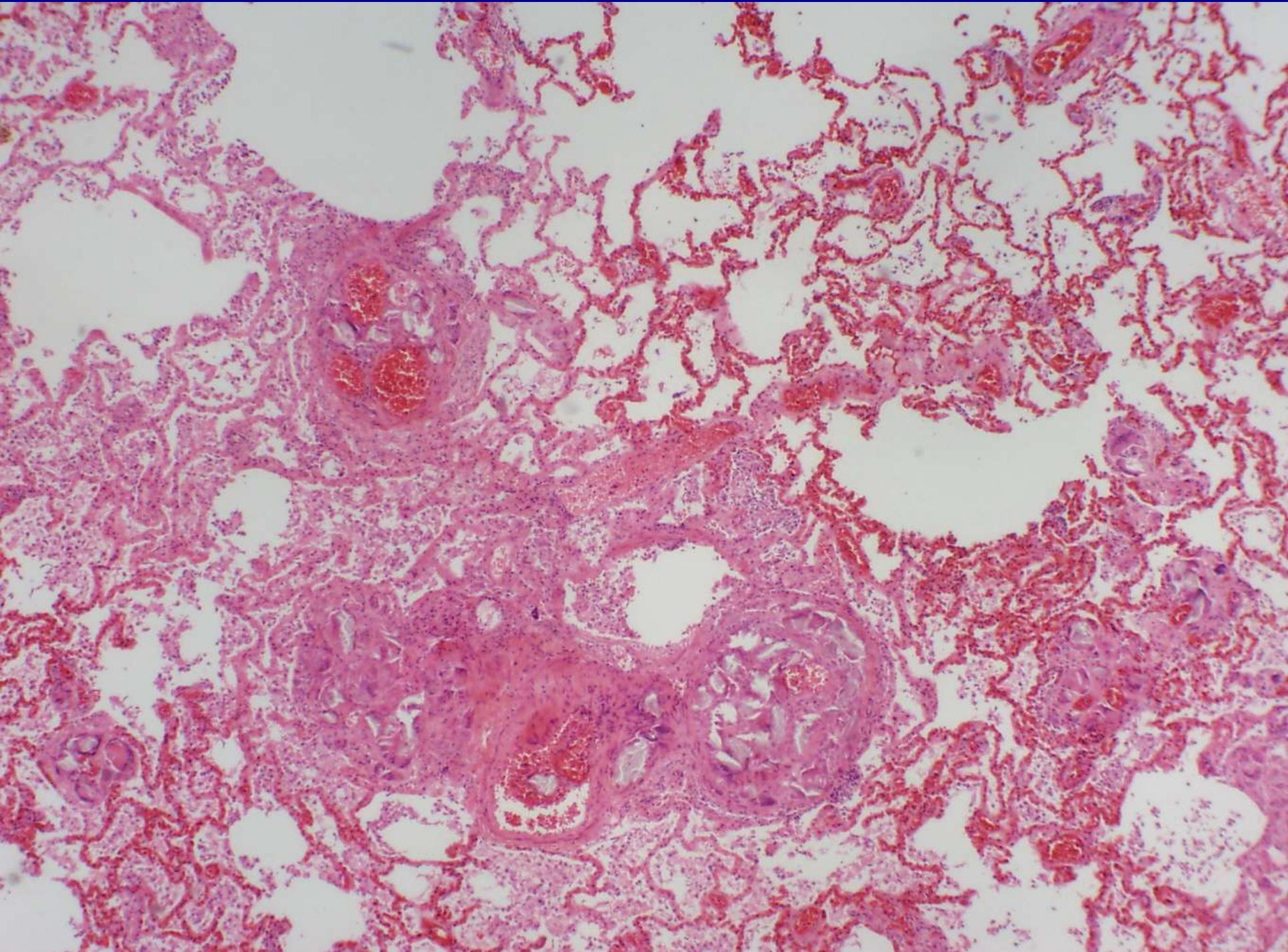
Perivascular

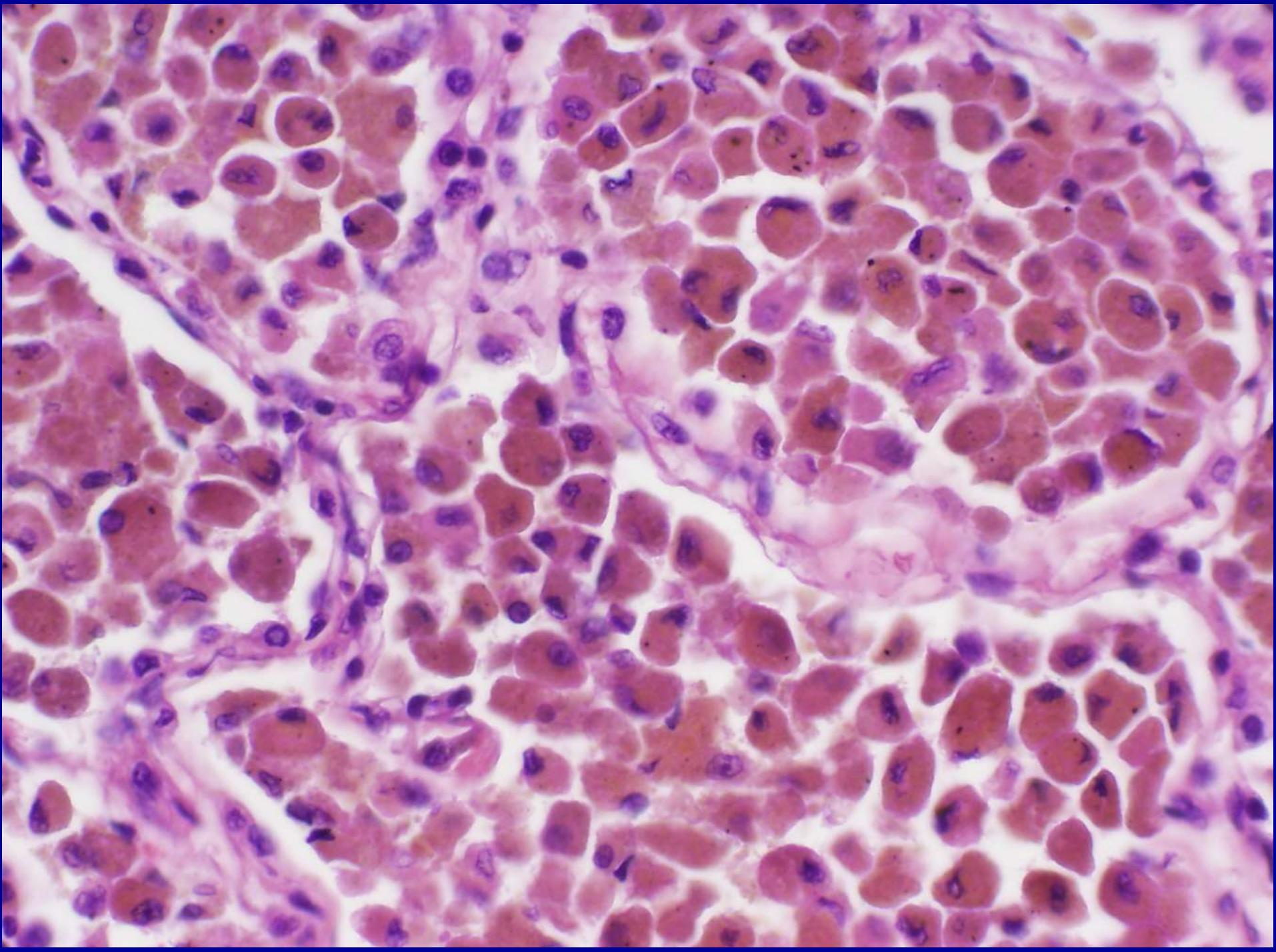
Intraalveolar

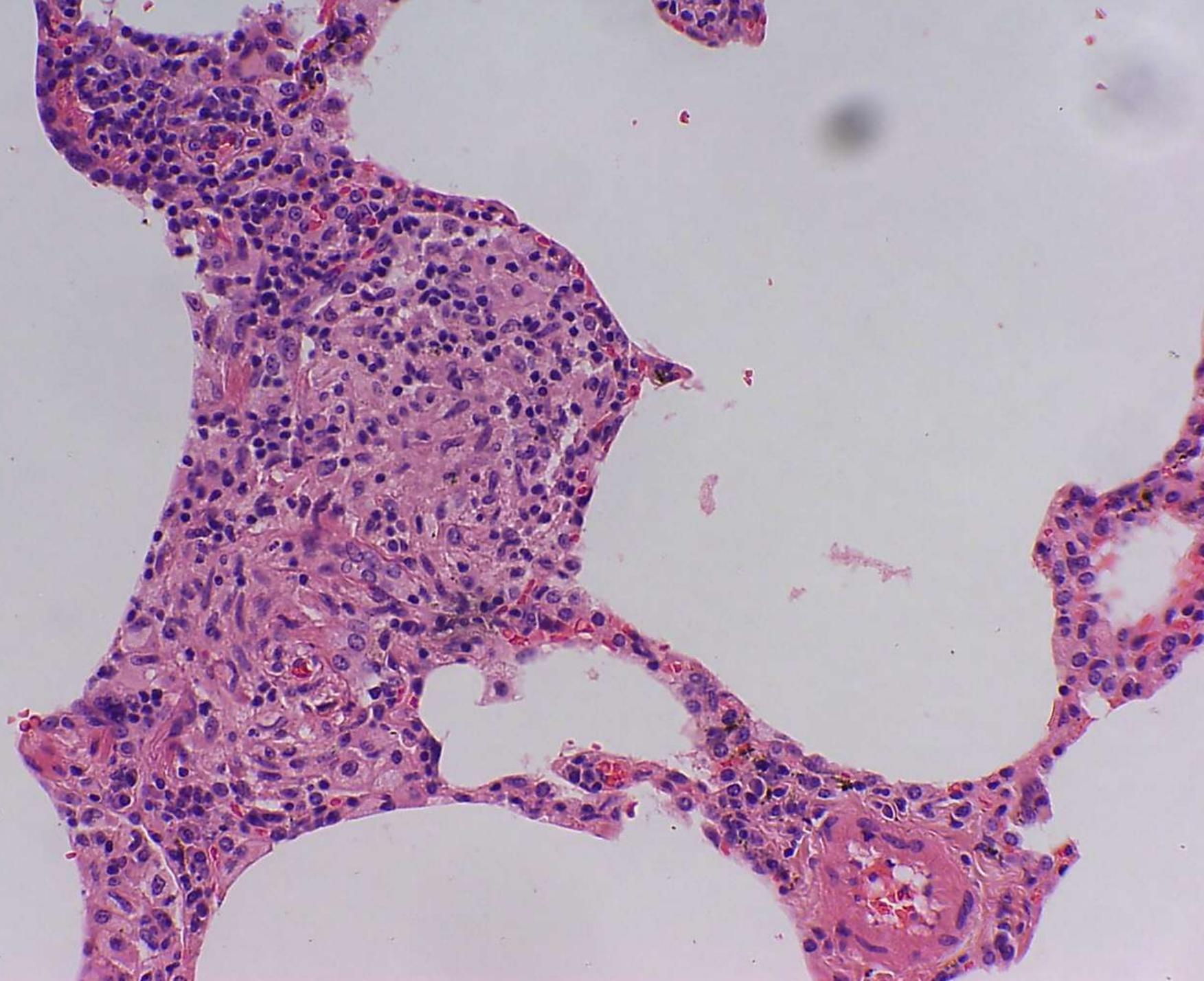
Interstitial

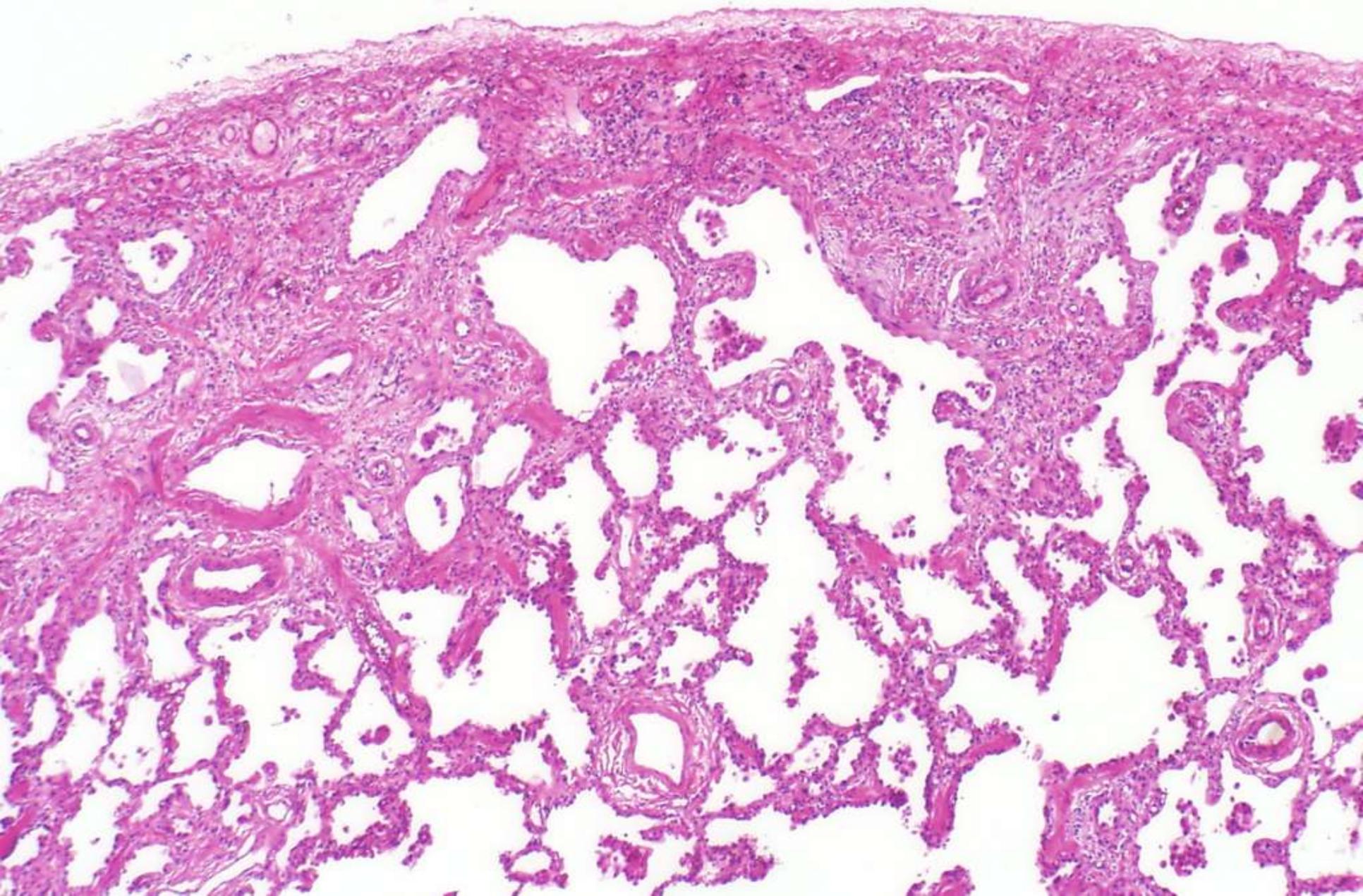
Pleural/subpleural











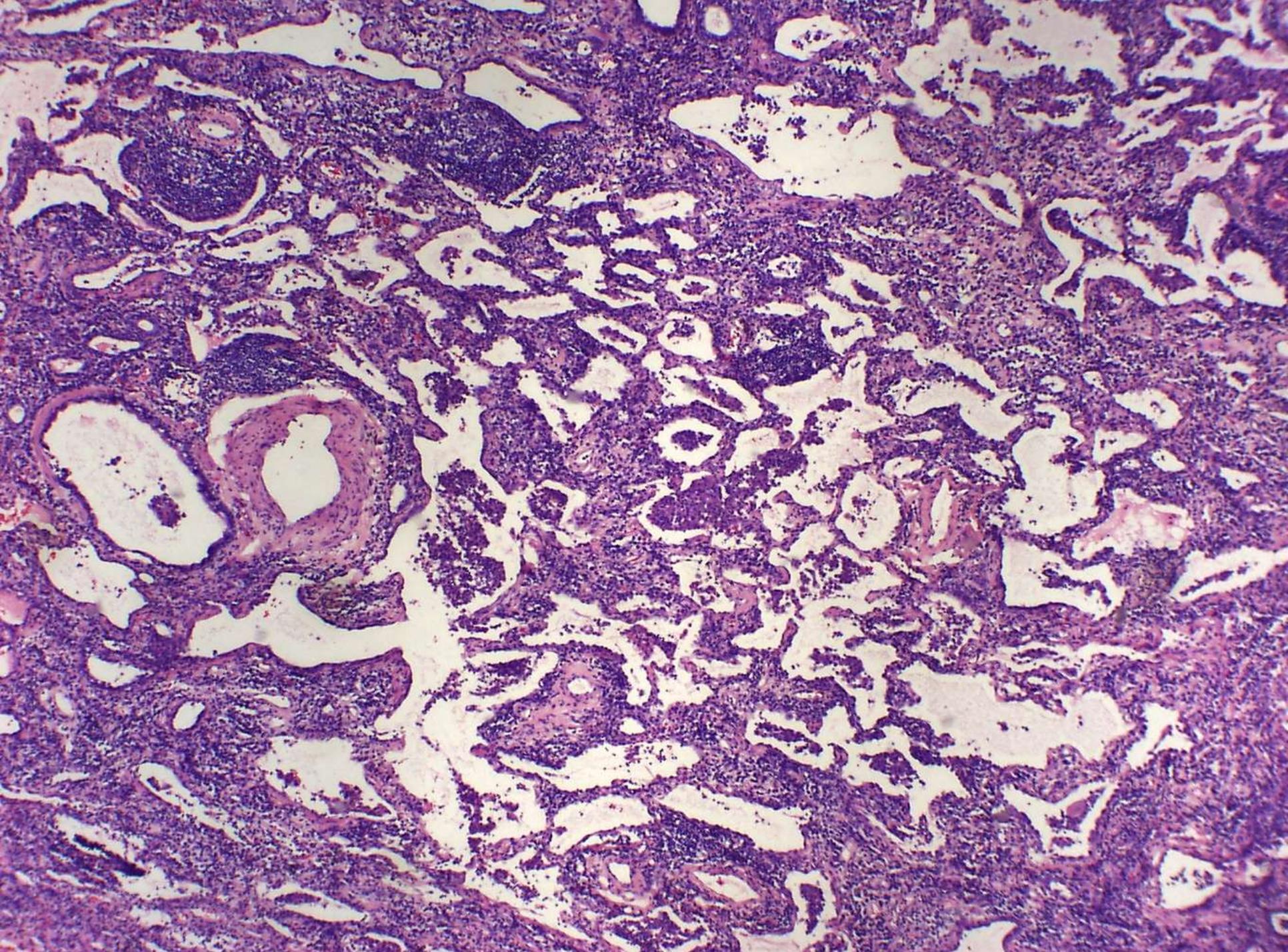
# How much

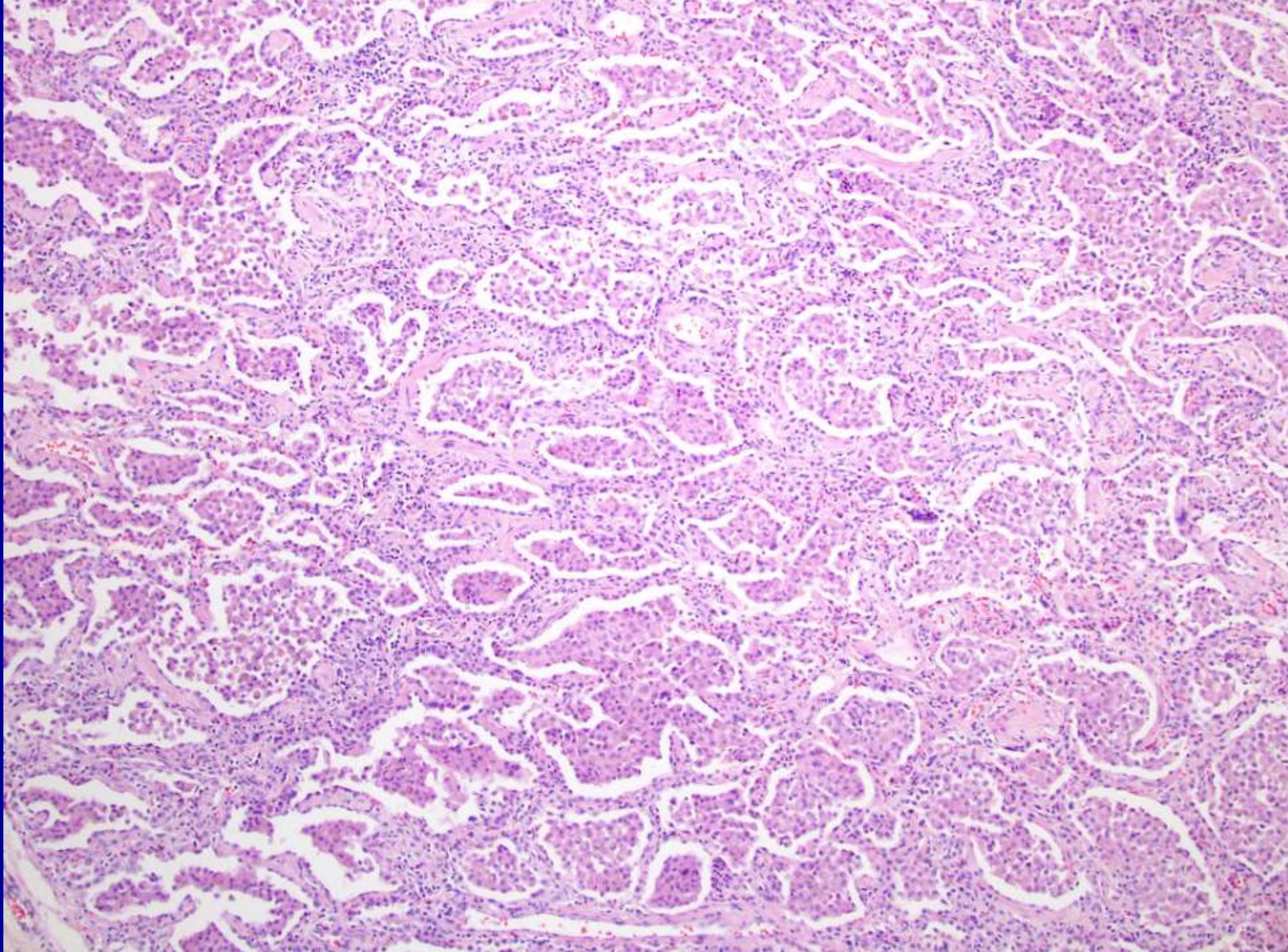
- Quantity of inflammatory cells:

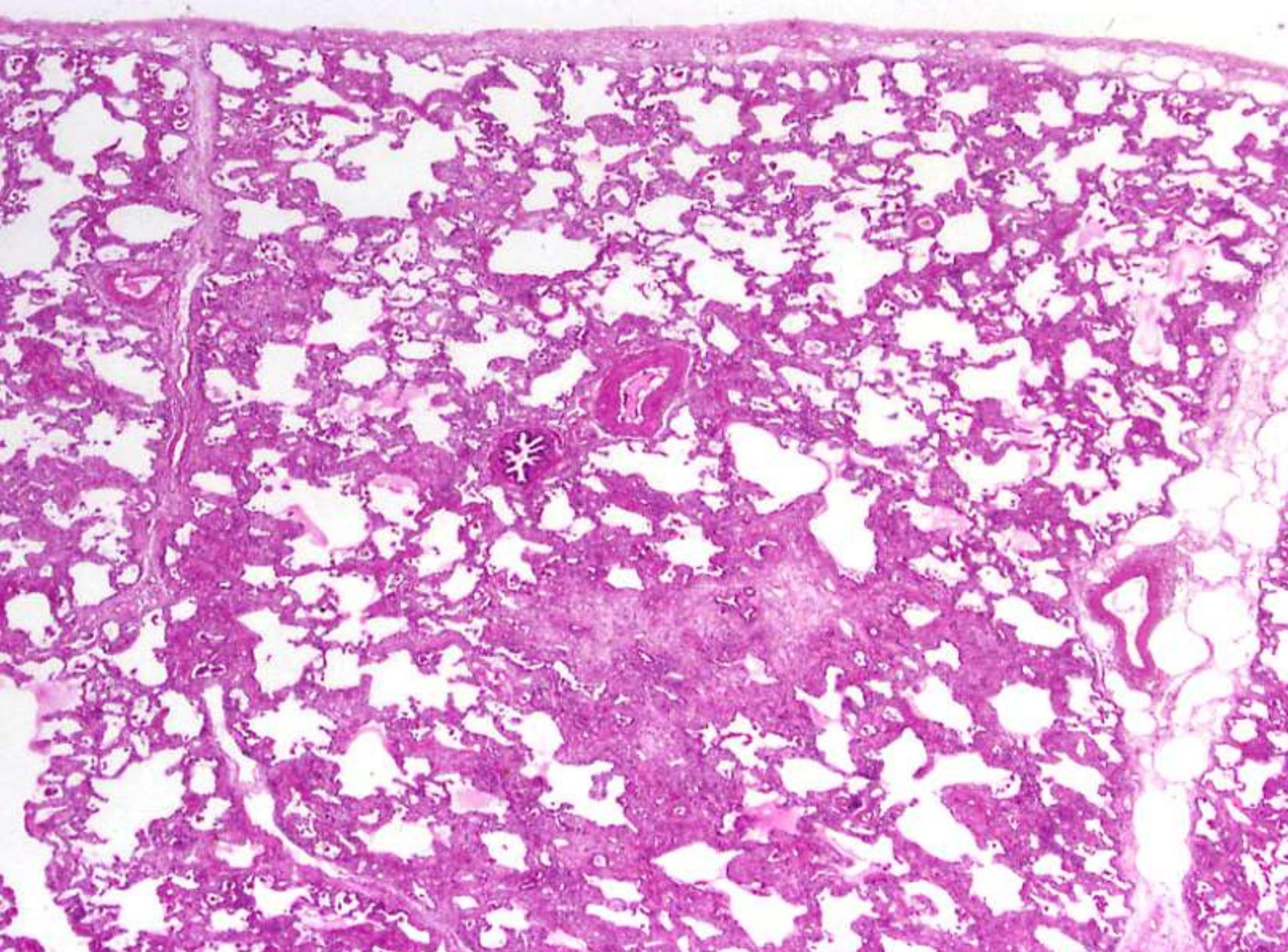
Prominent picture

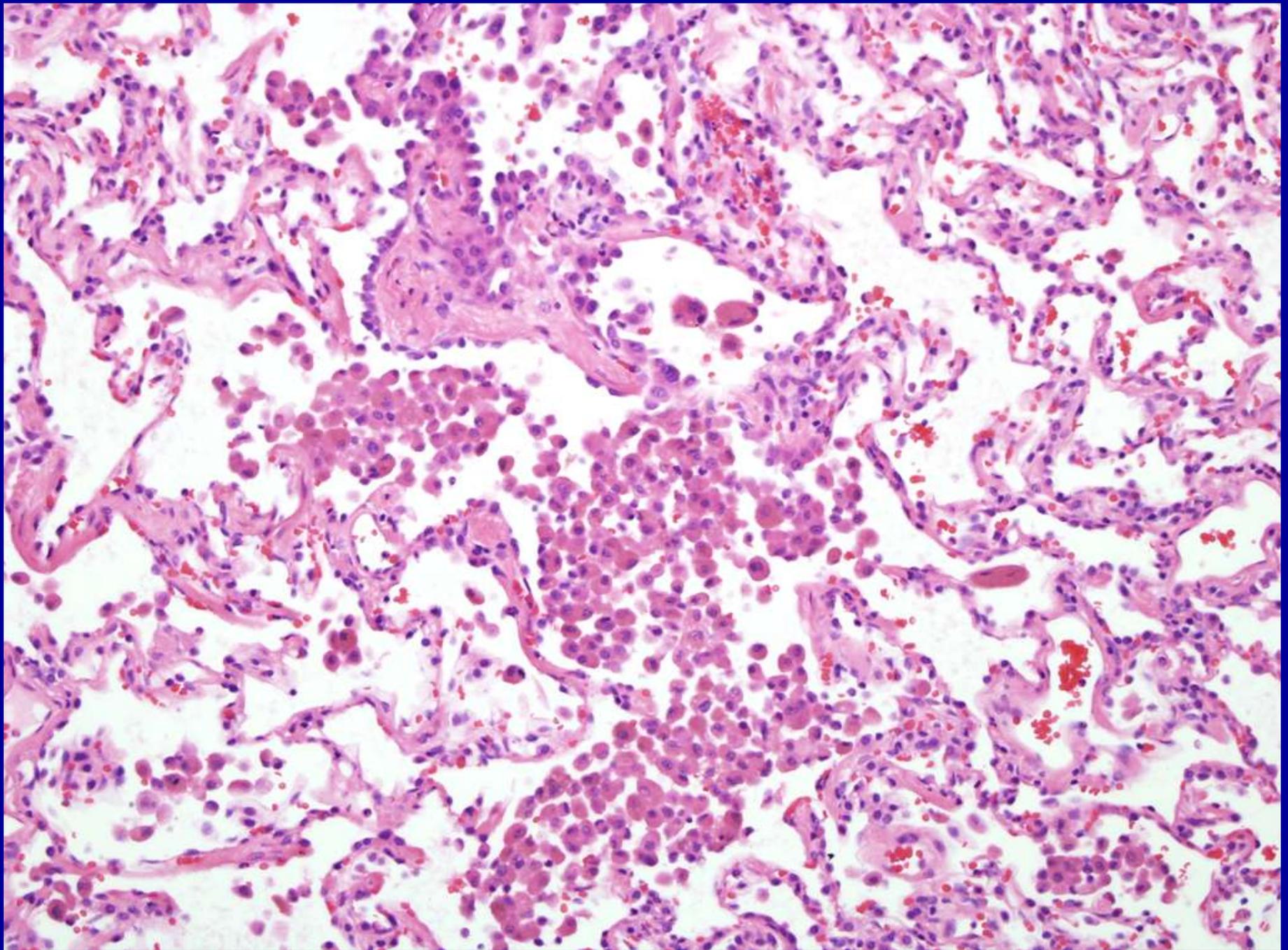
Part of the Picture

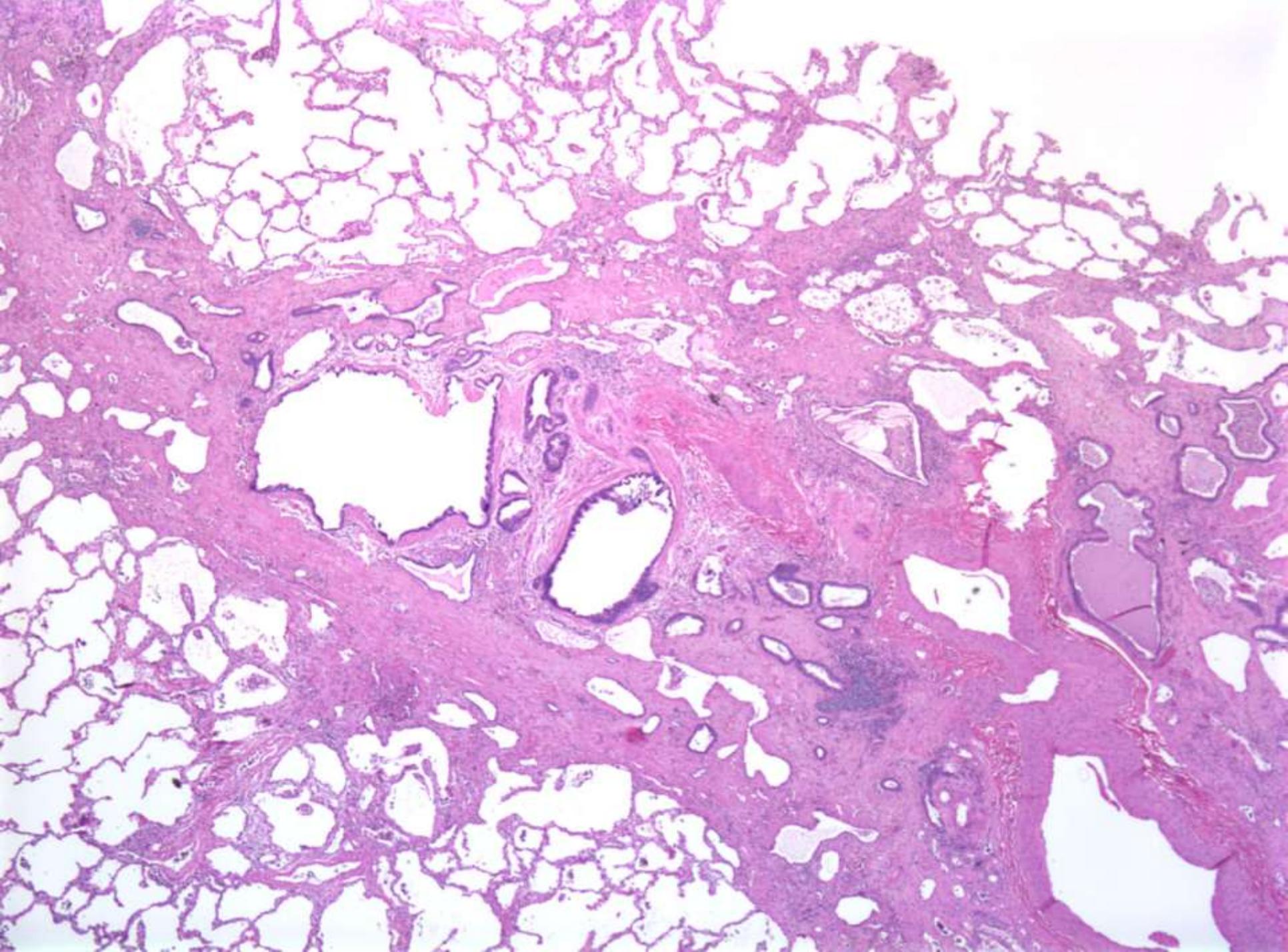
Discrete changes

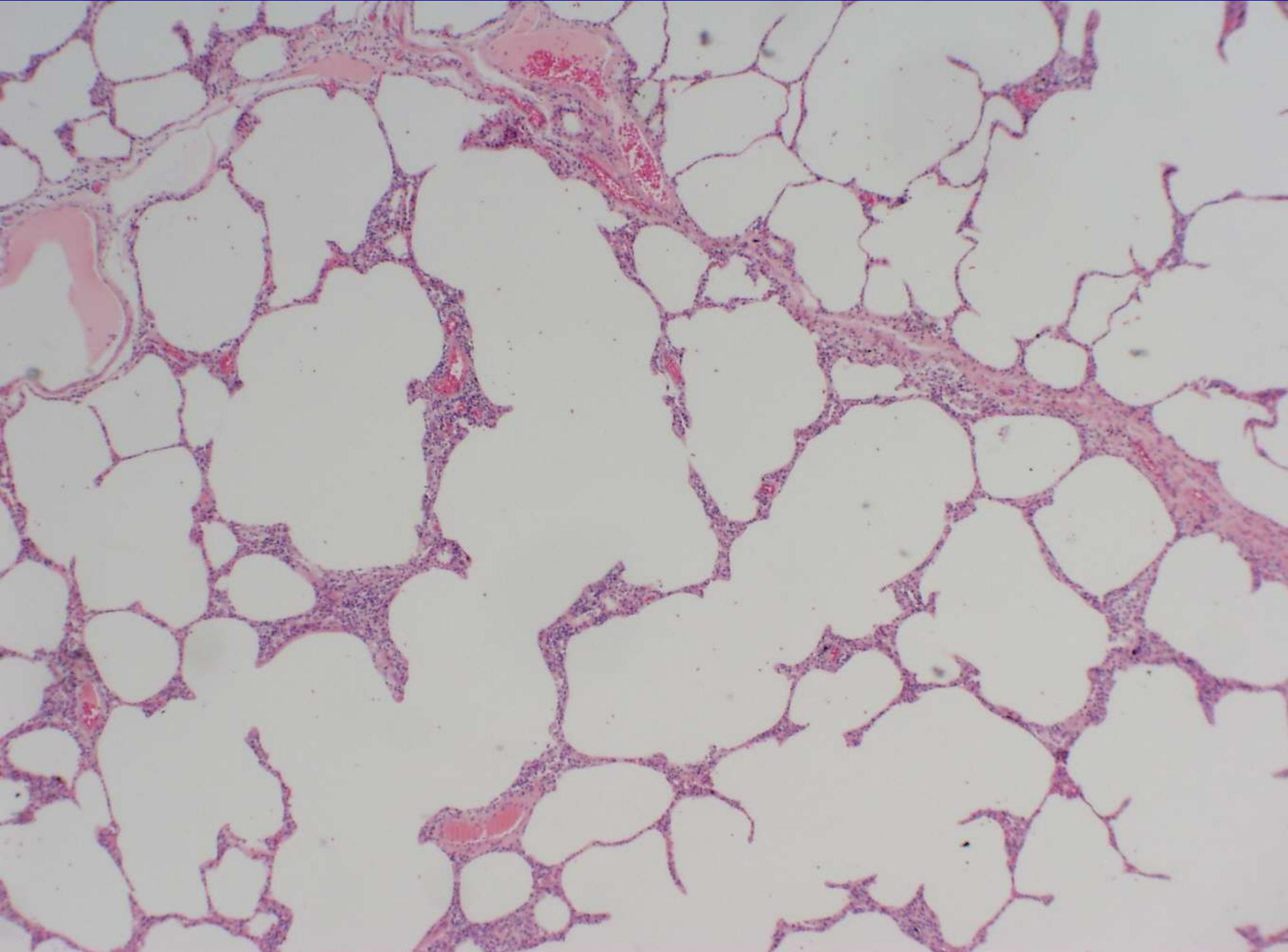












# Which

- Quality of inflammatory cells:

Lymphocytes

Plasmocytes

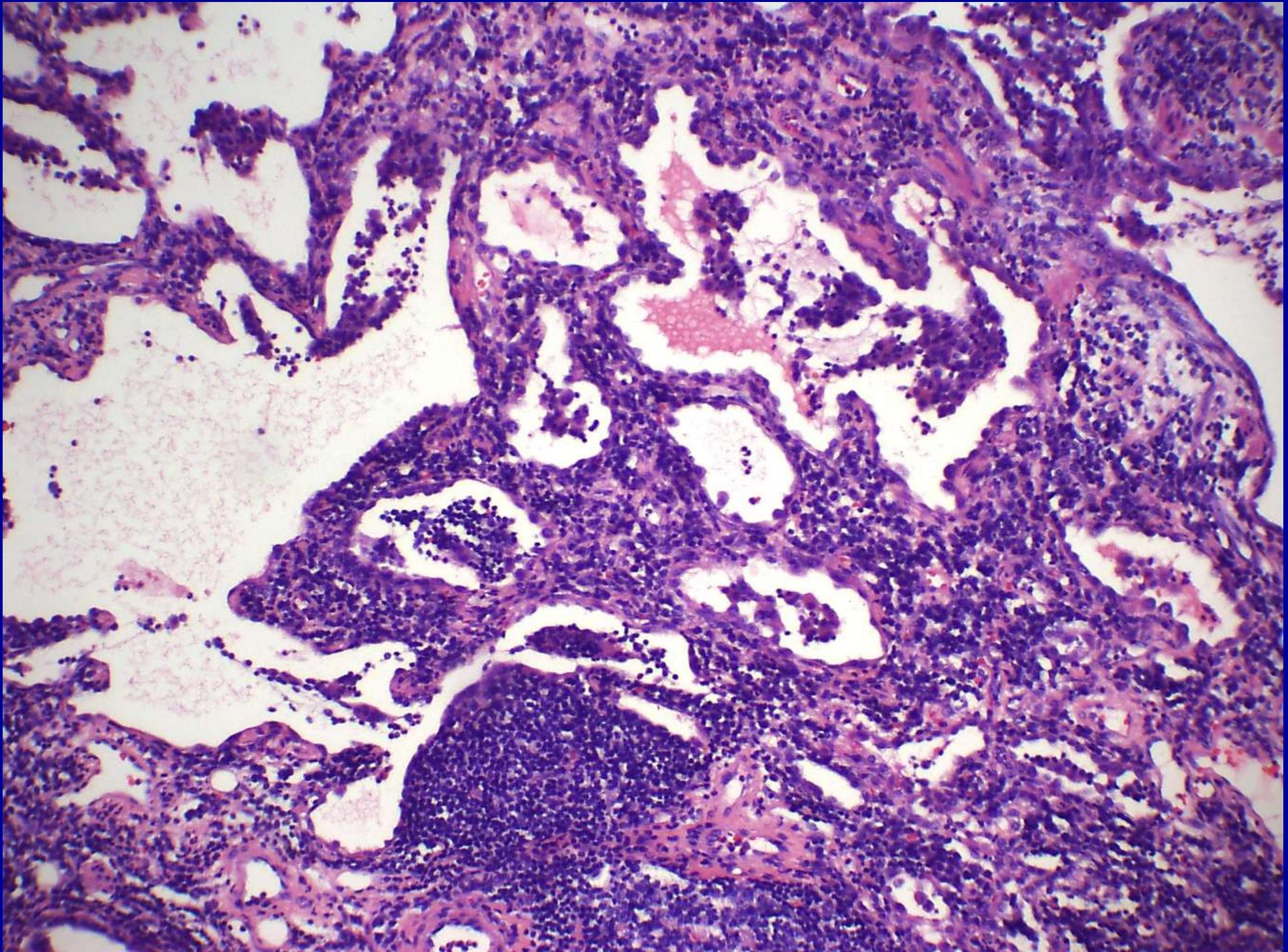
Neutrophils

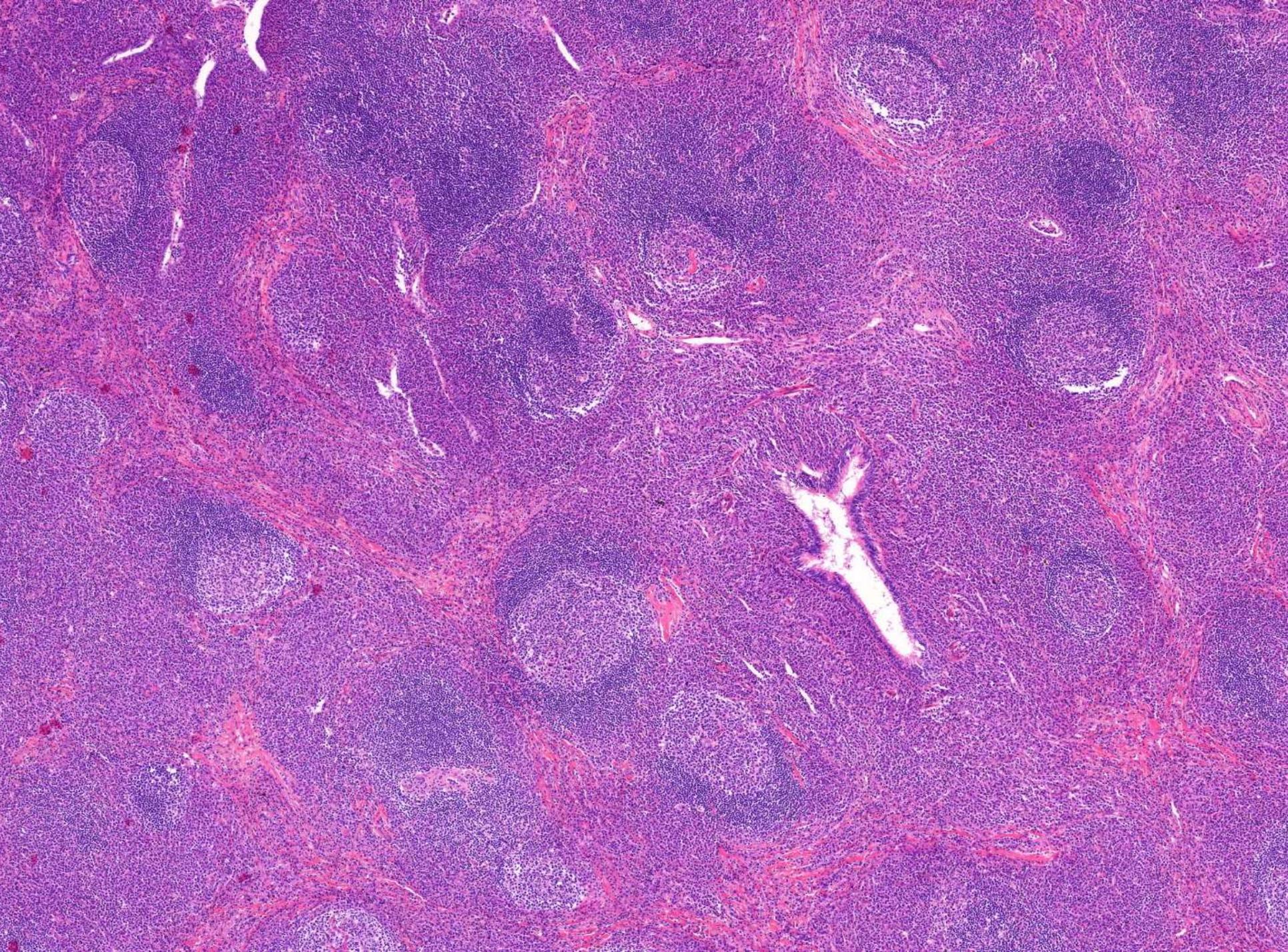
Eosinophils

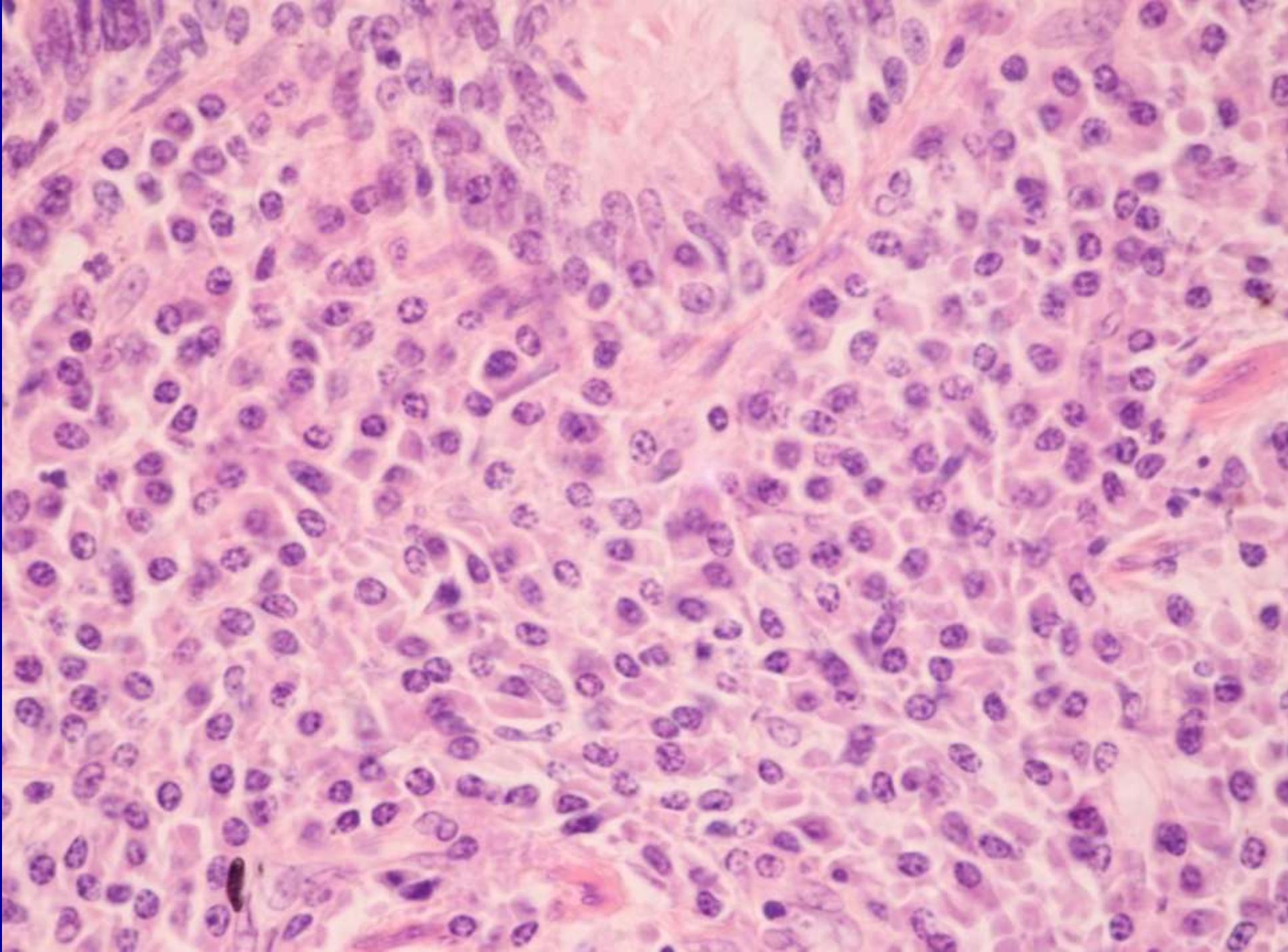
Macrophages/Giant cells

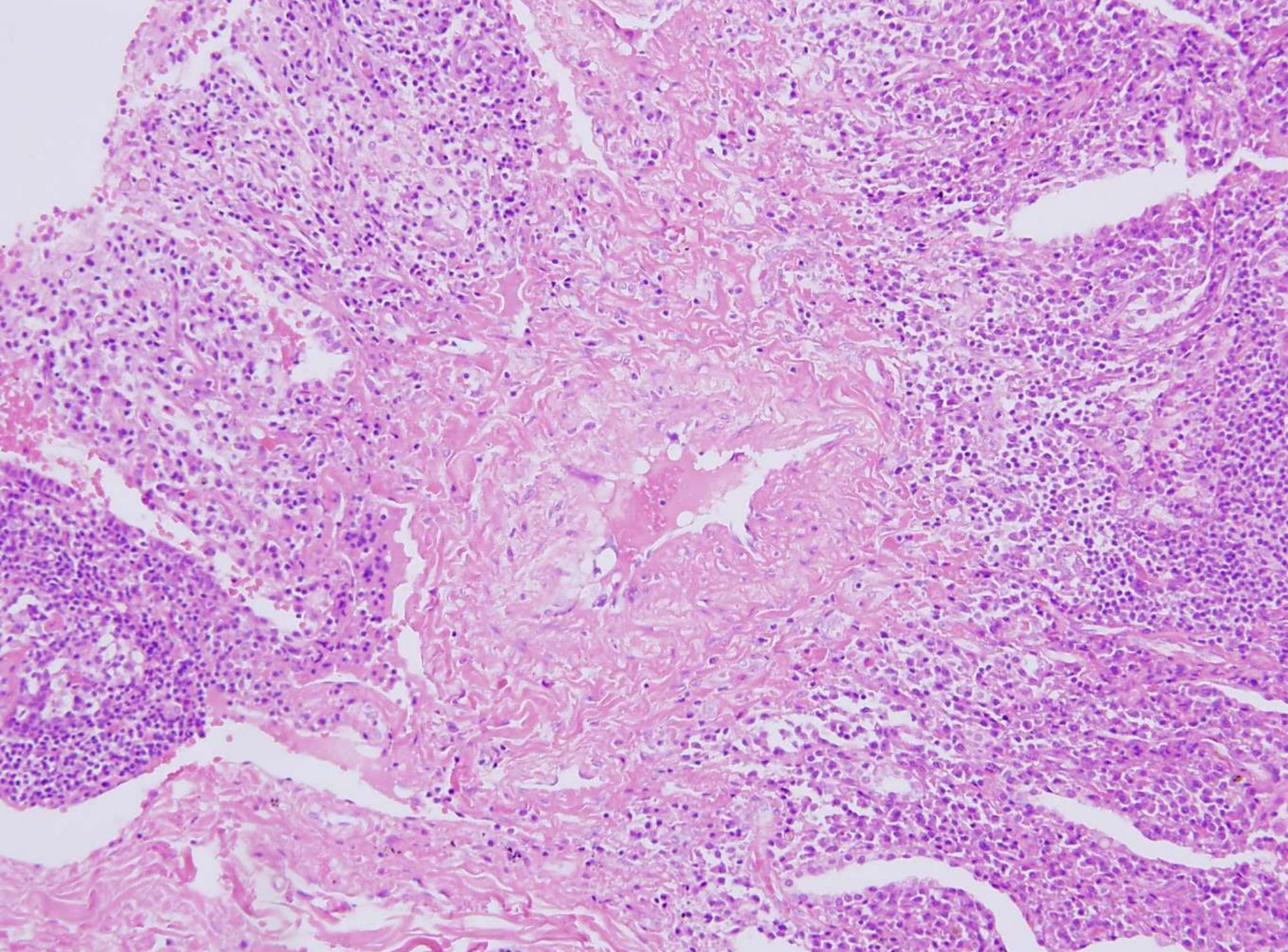
Granulomas

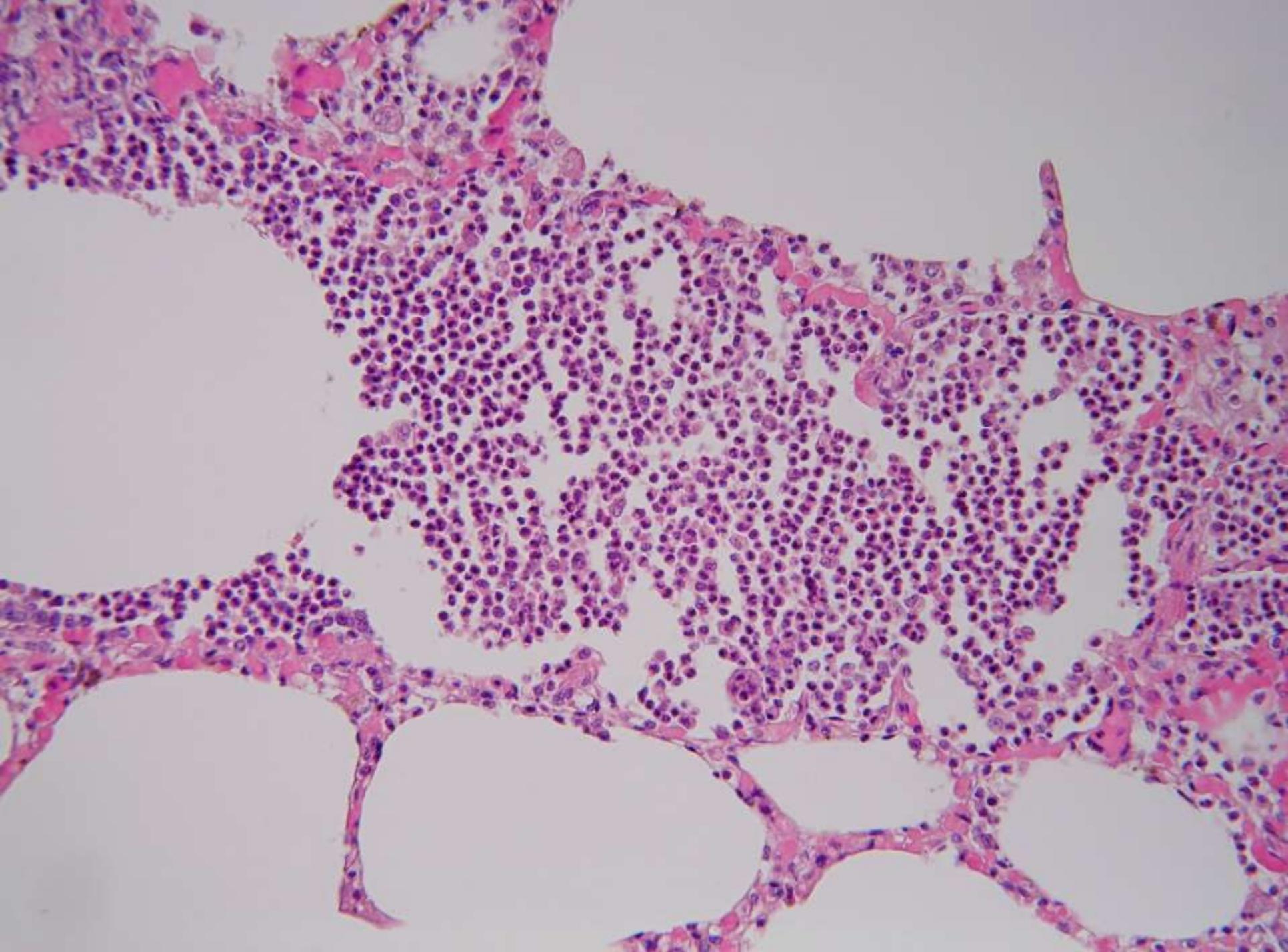
Langerhans cells

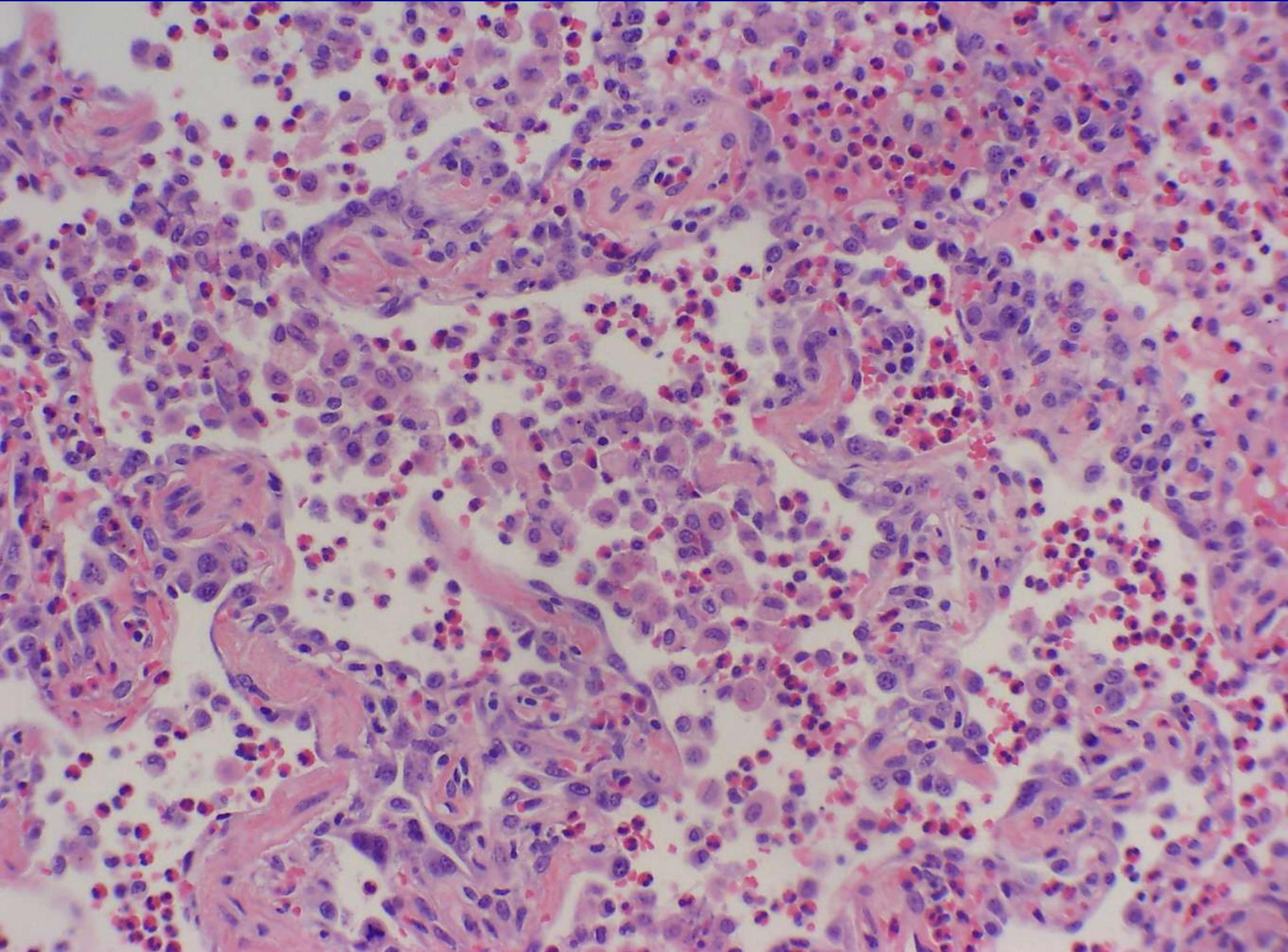


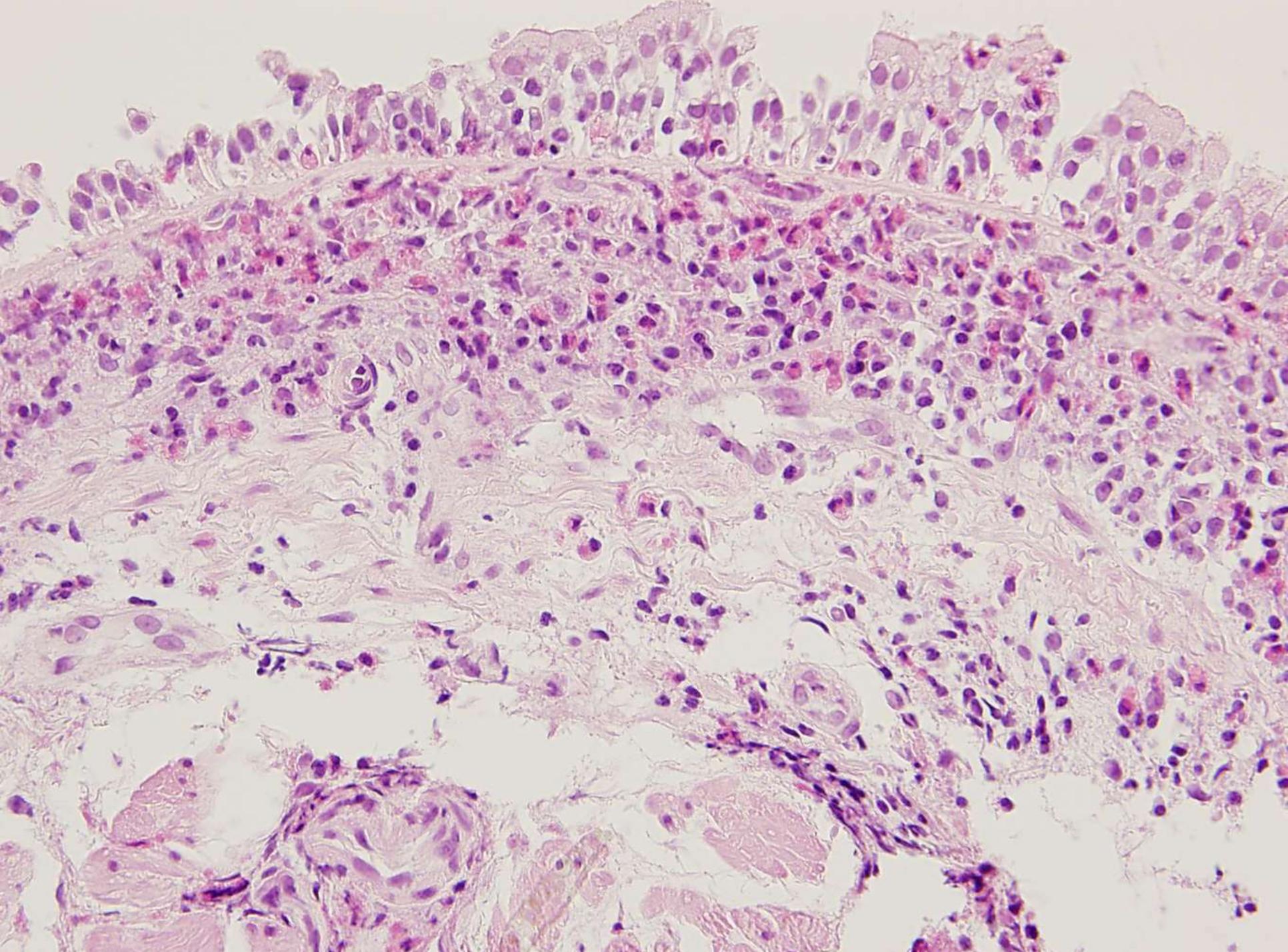


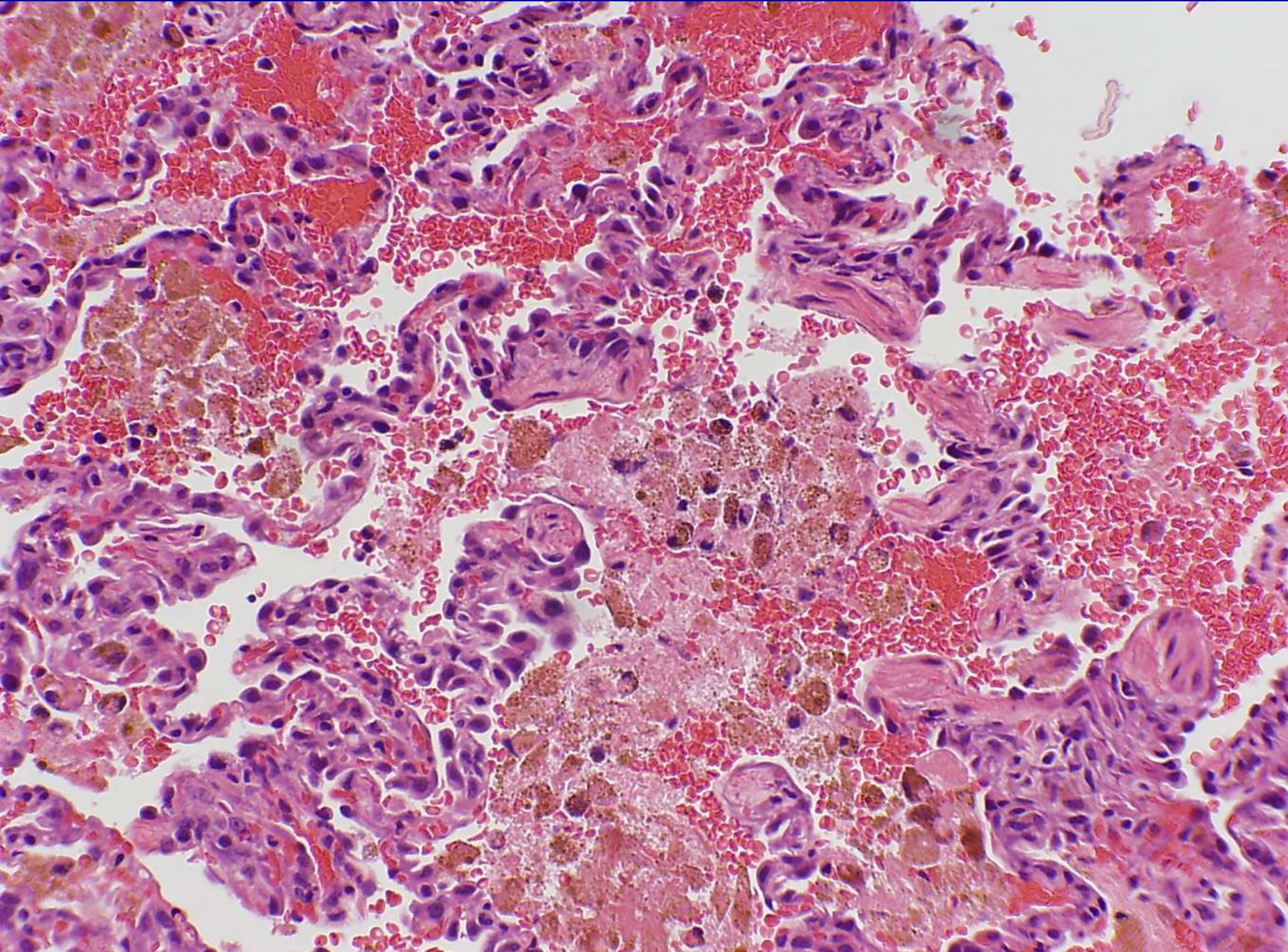


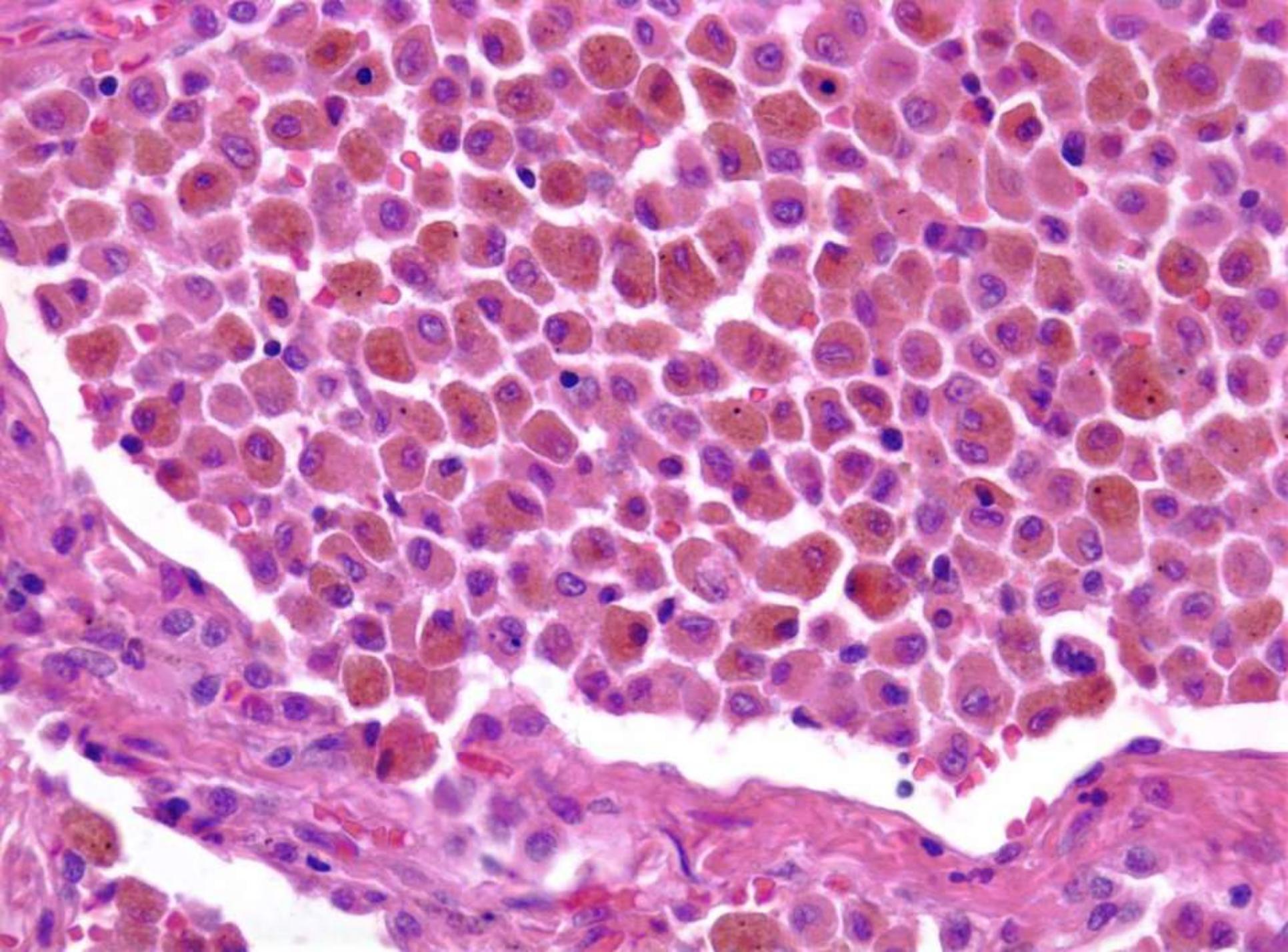


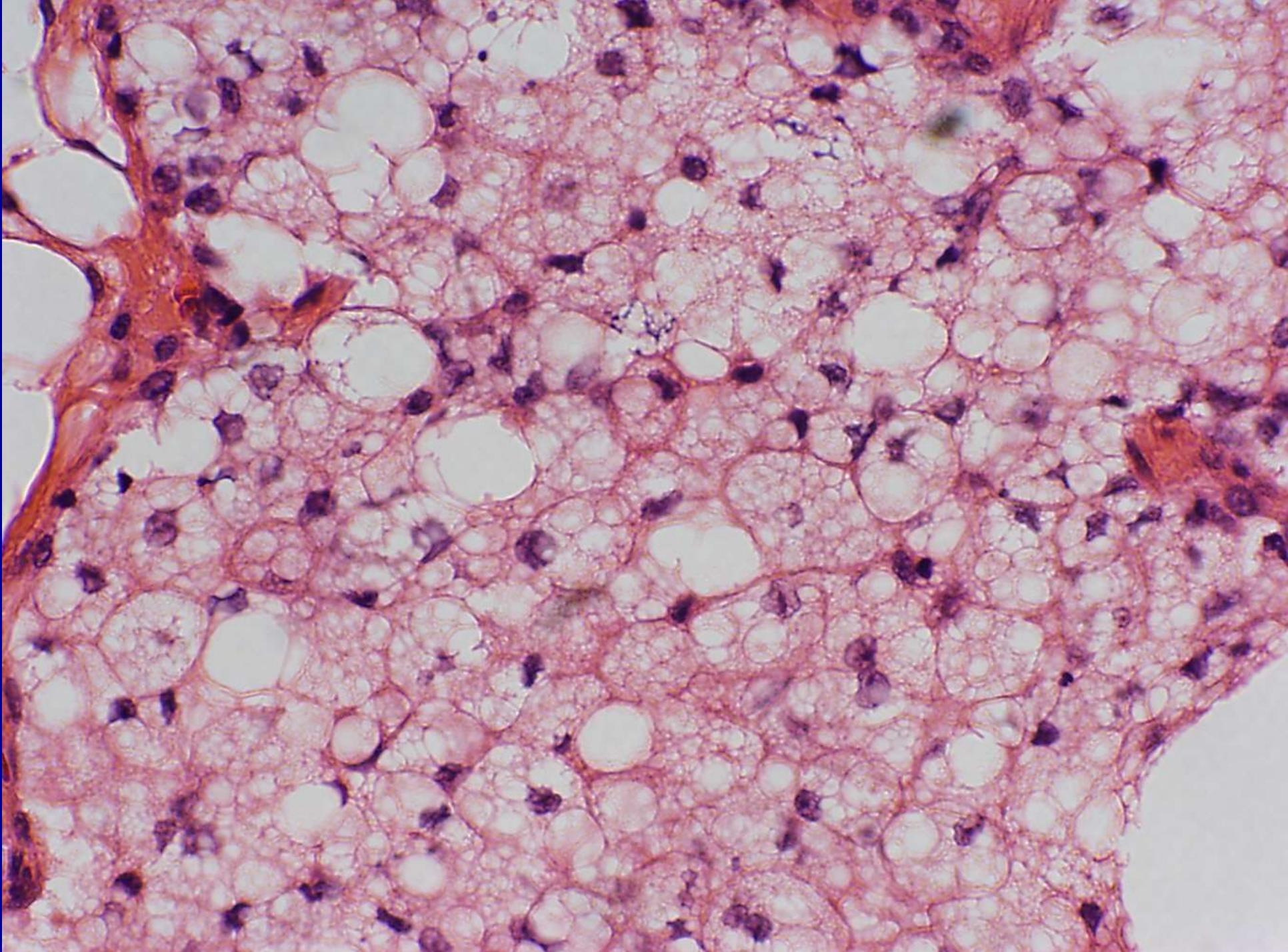


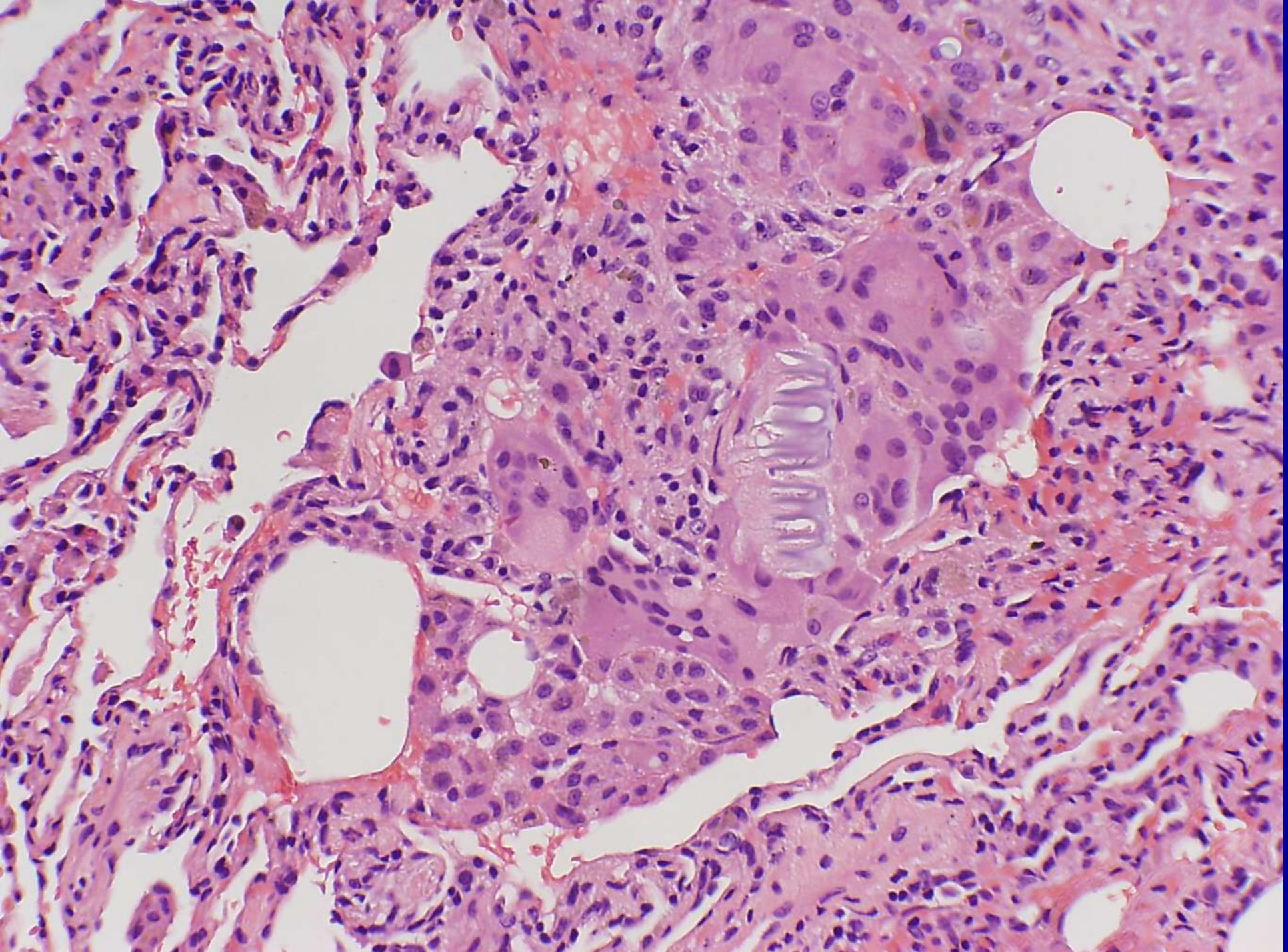


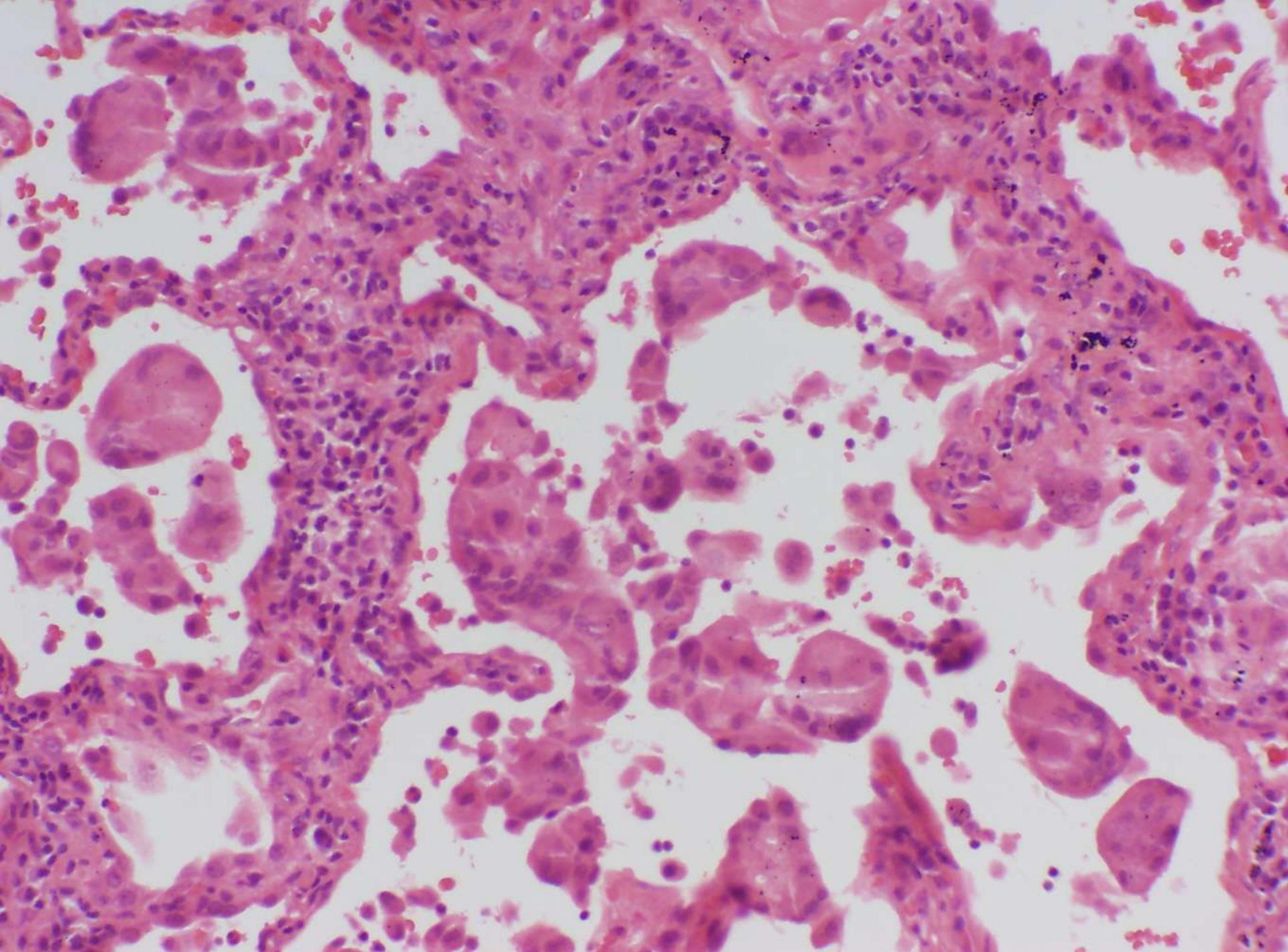


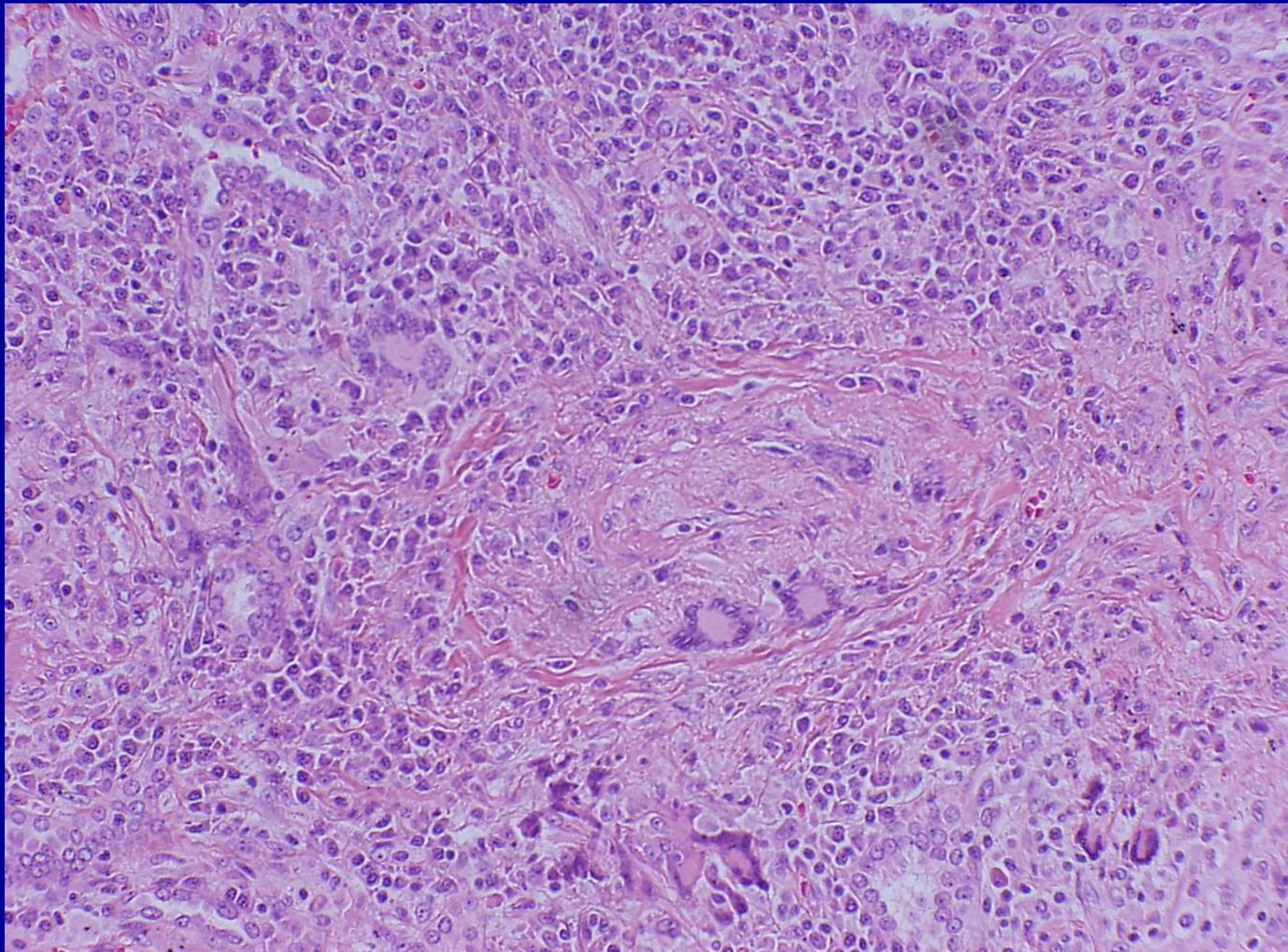


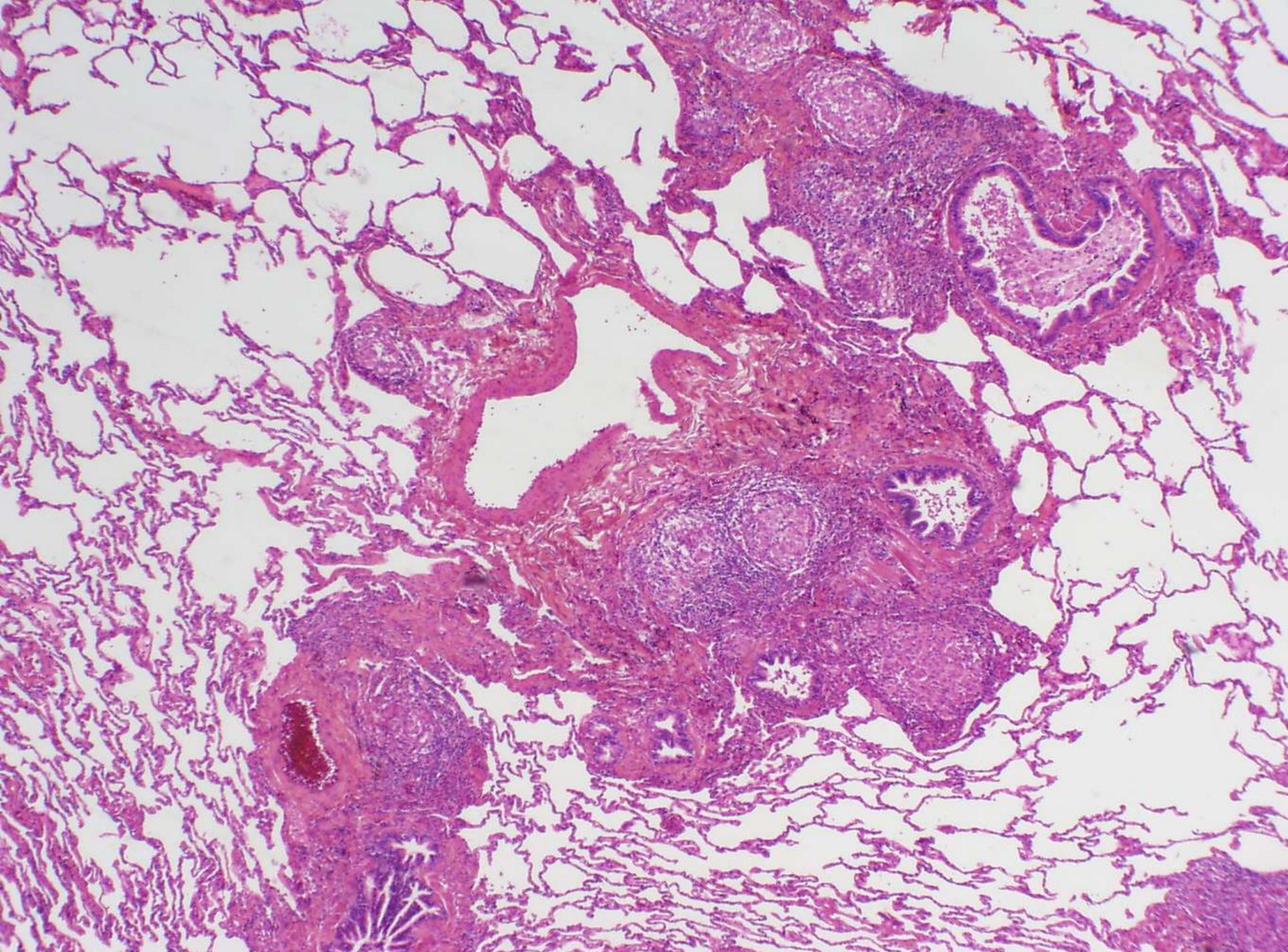


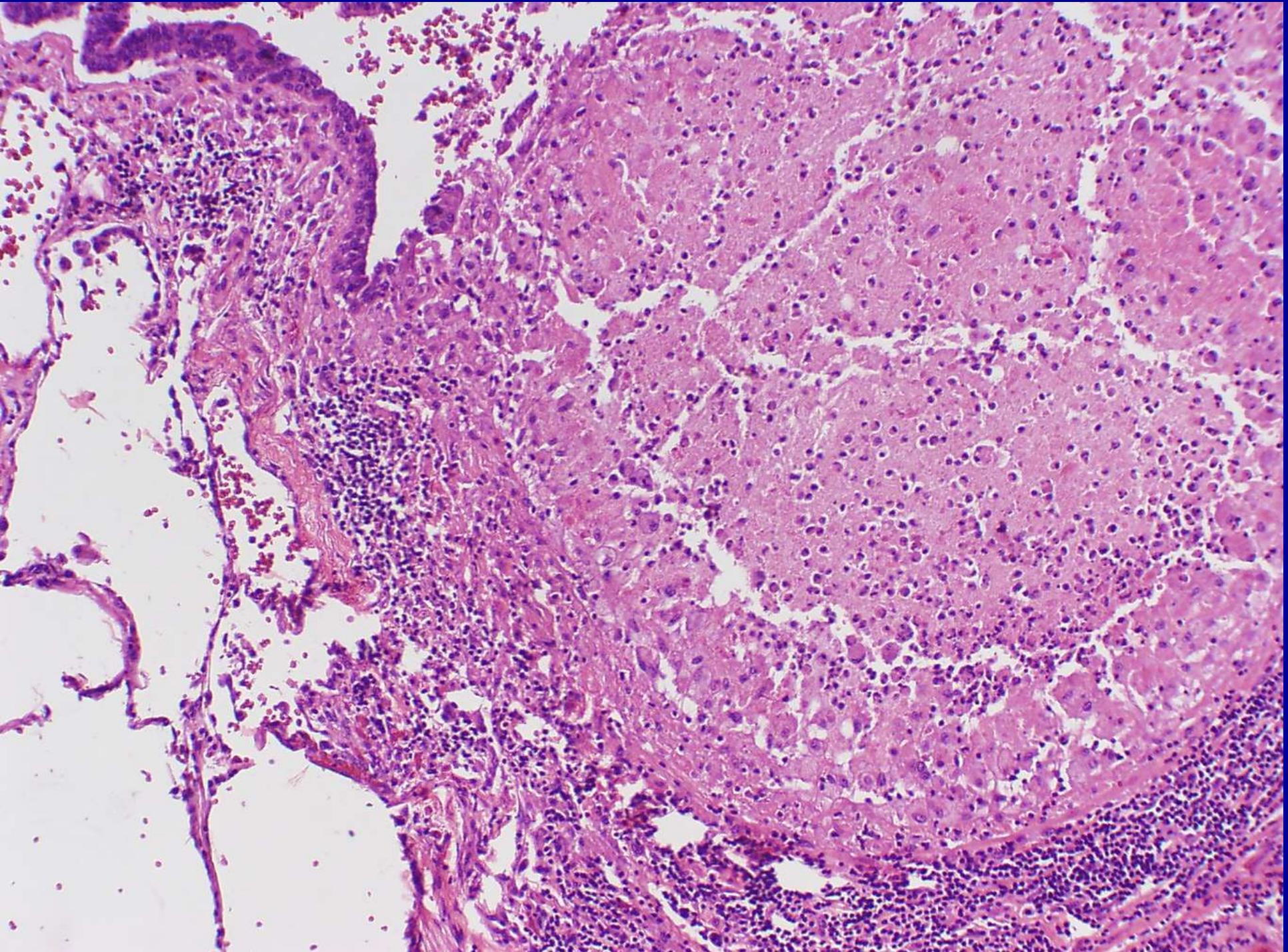


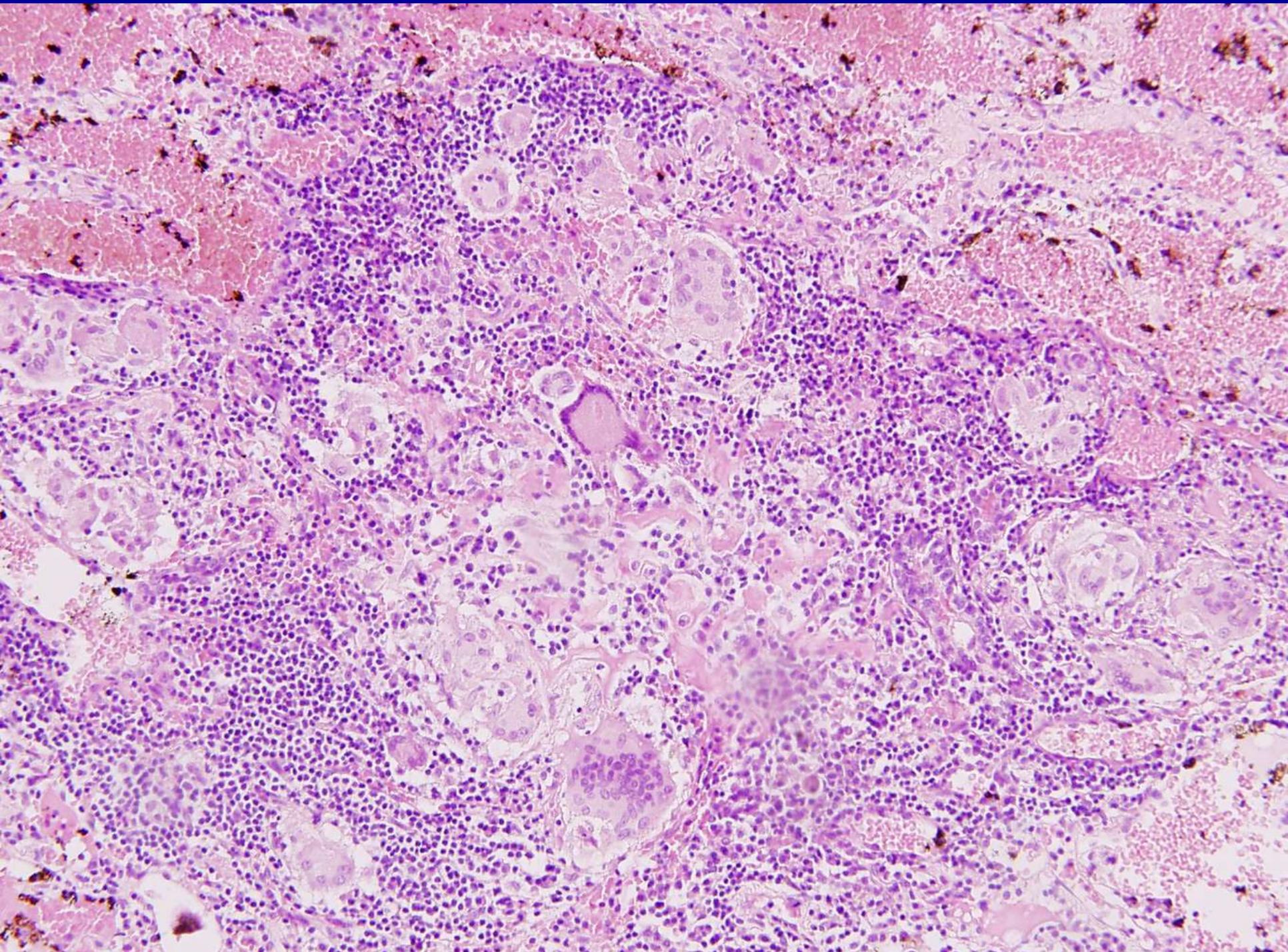


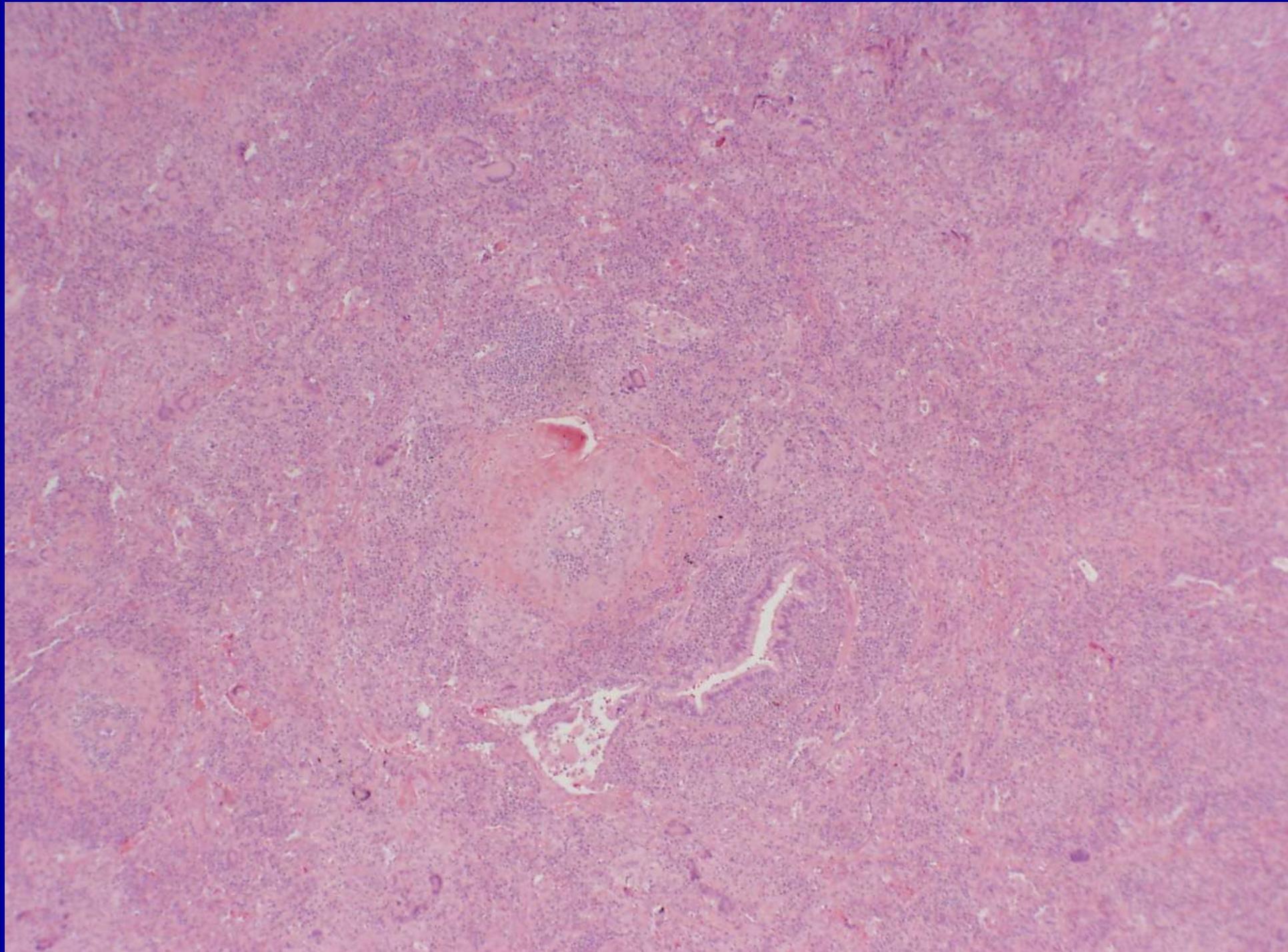


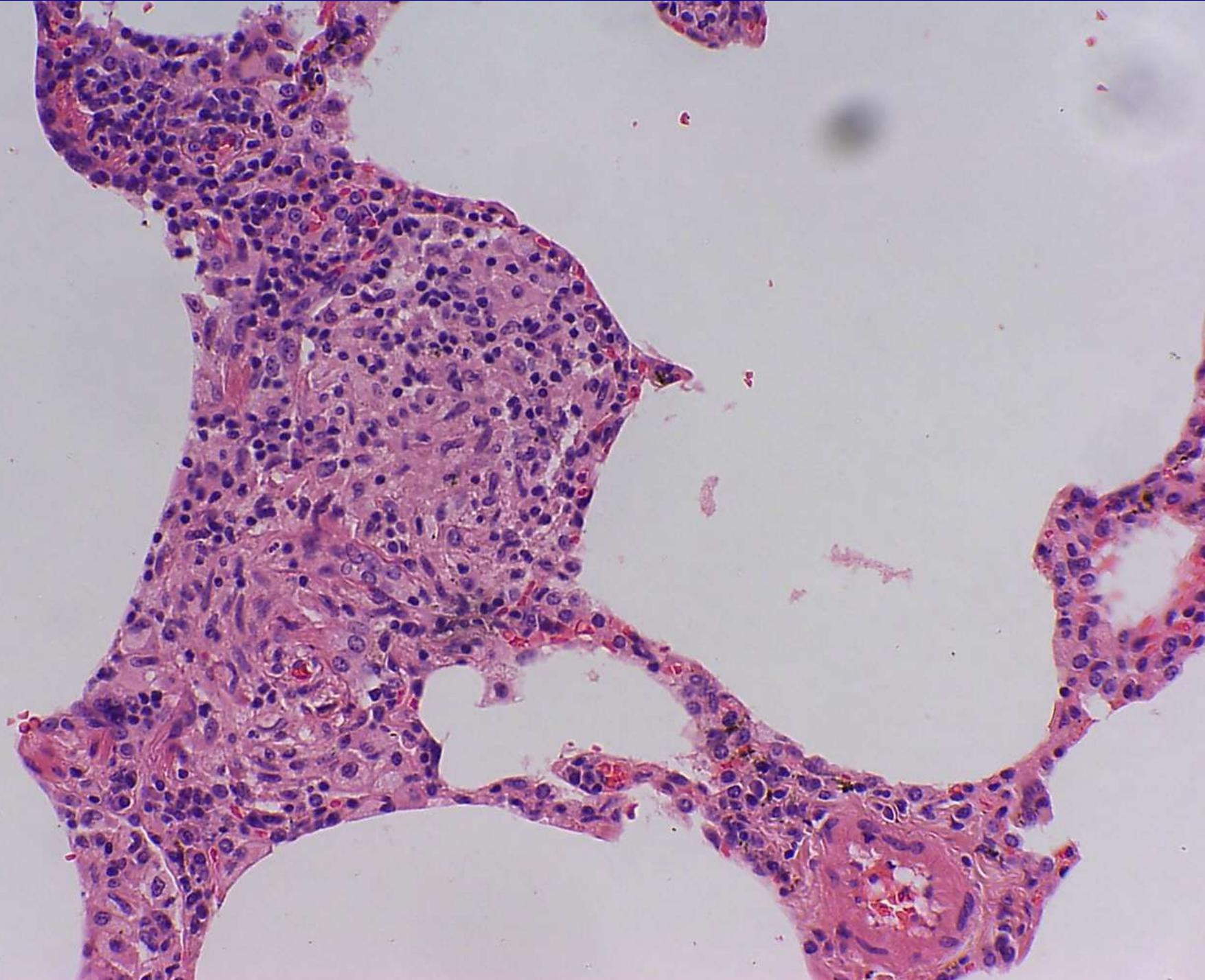


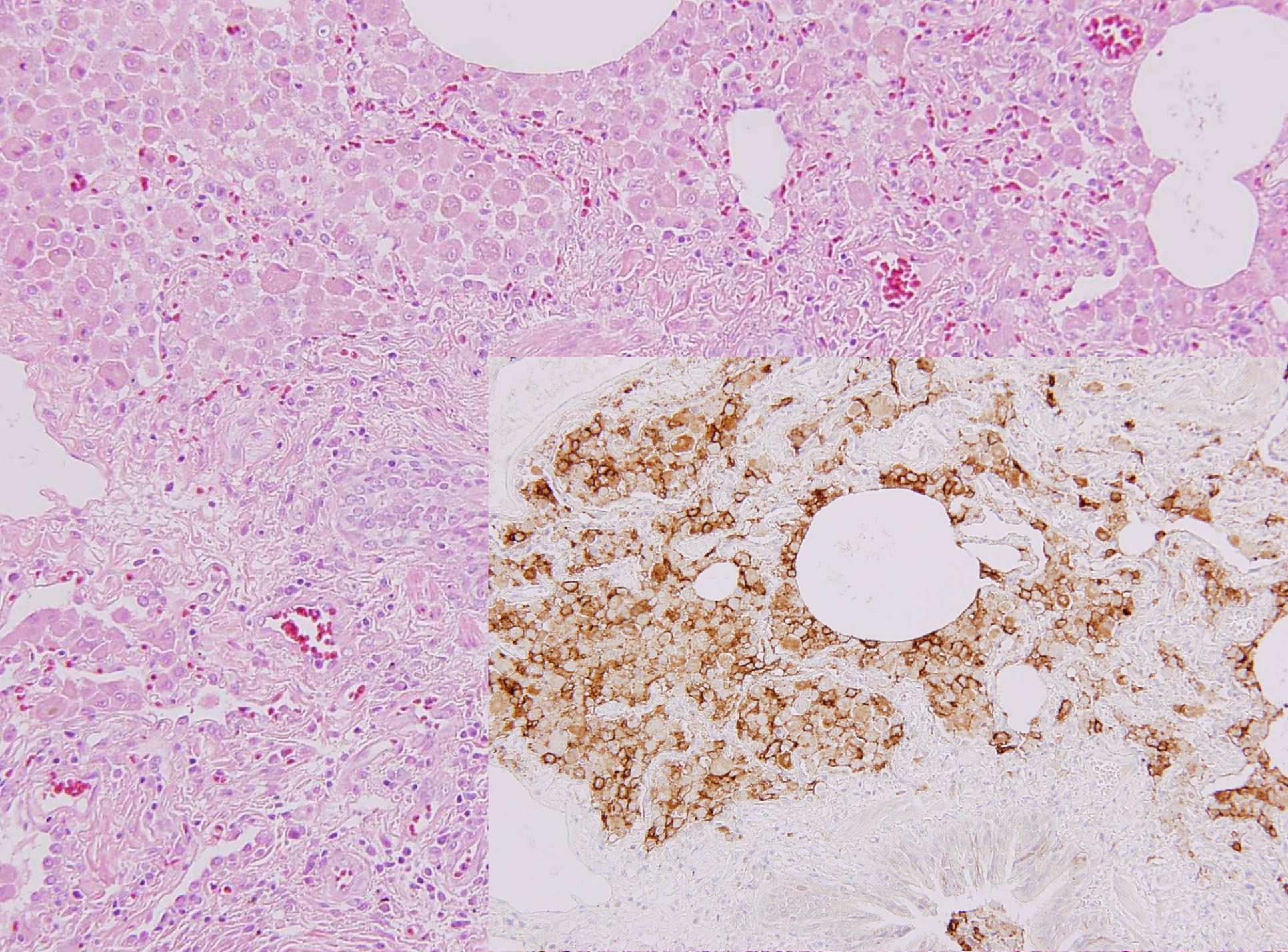










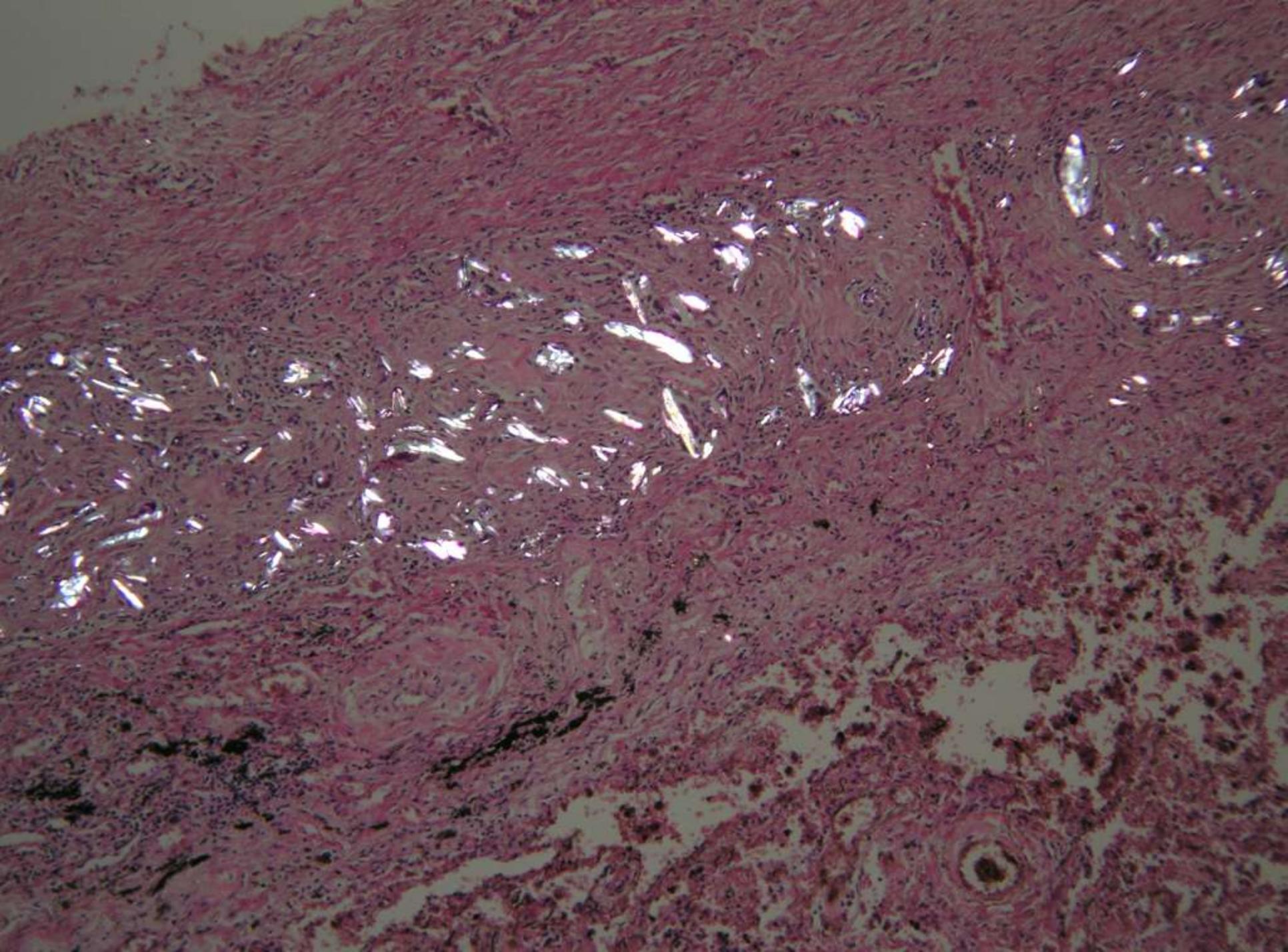


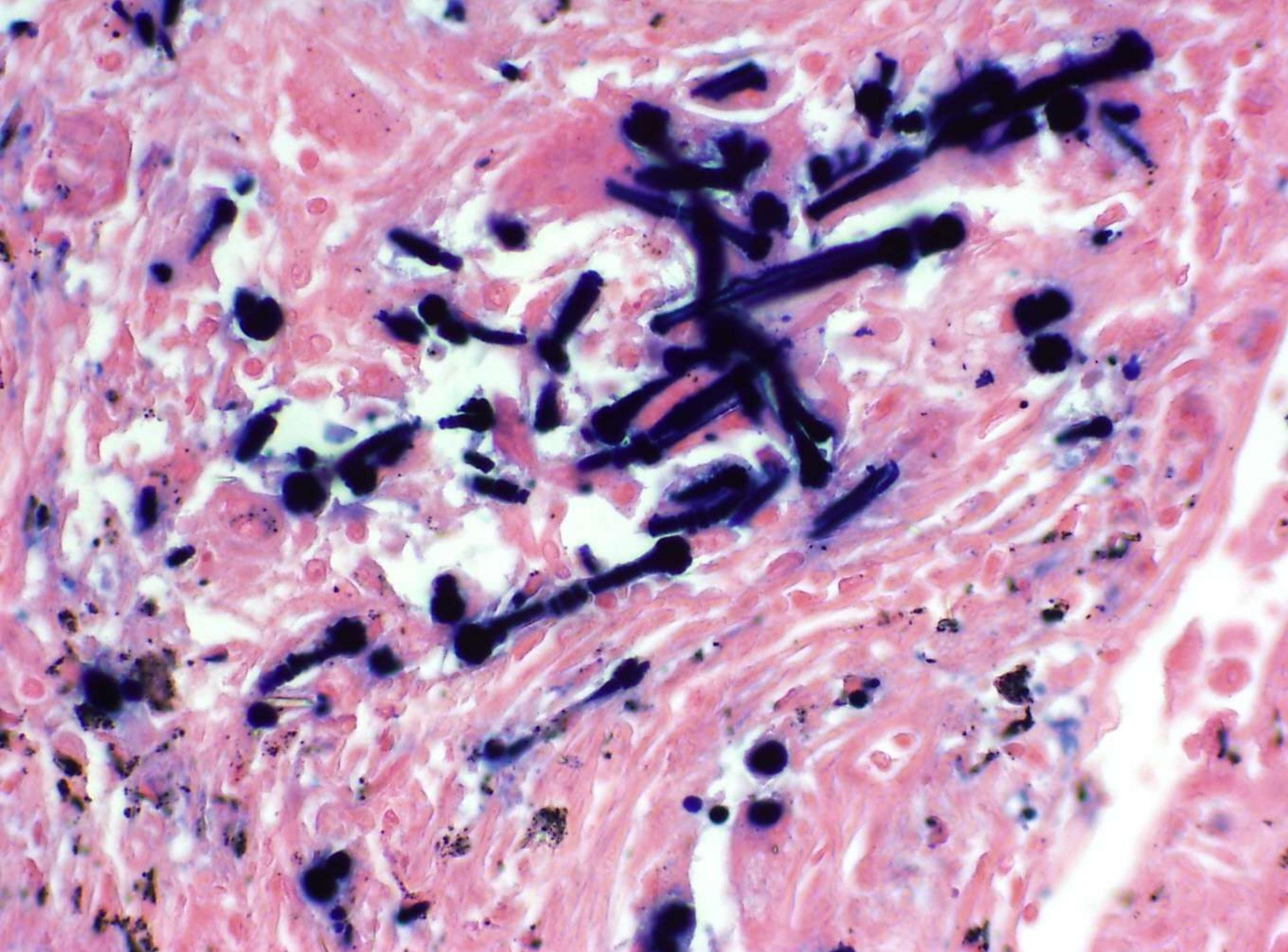
# Use of special stains

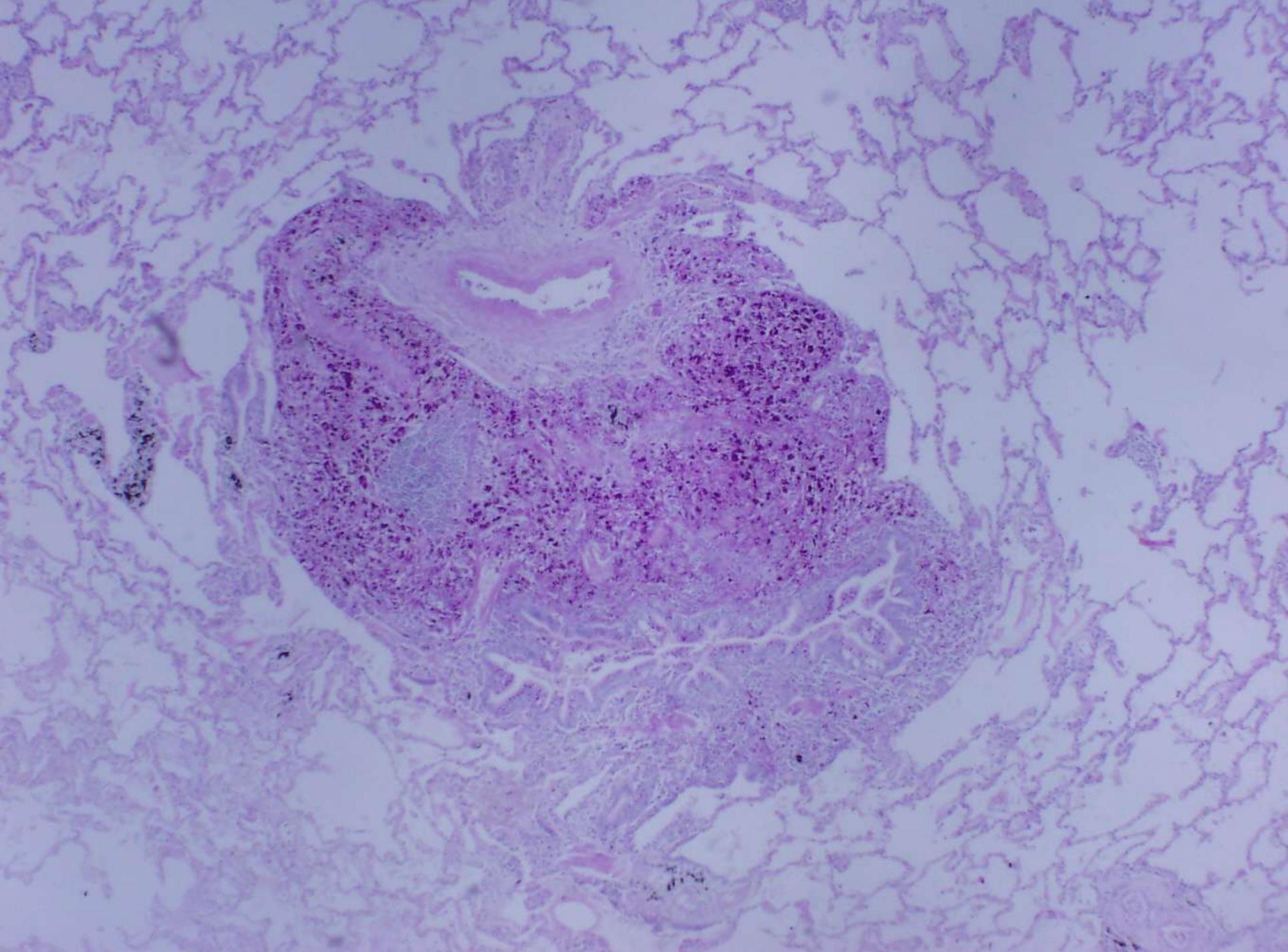
Foreign materials

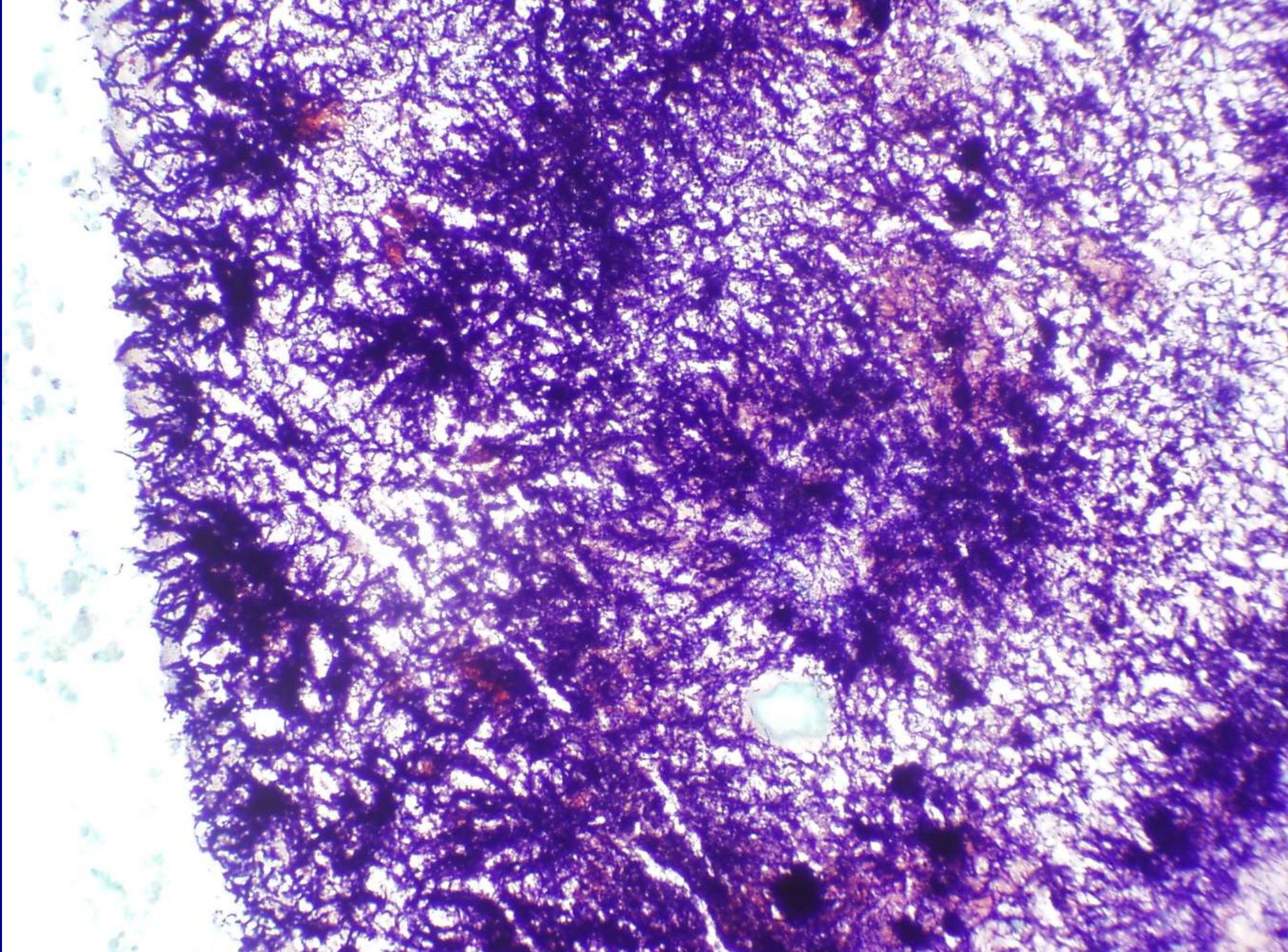
Bugs

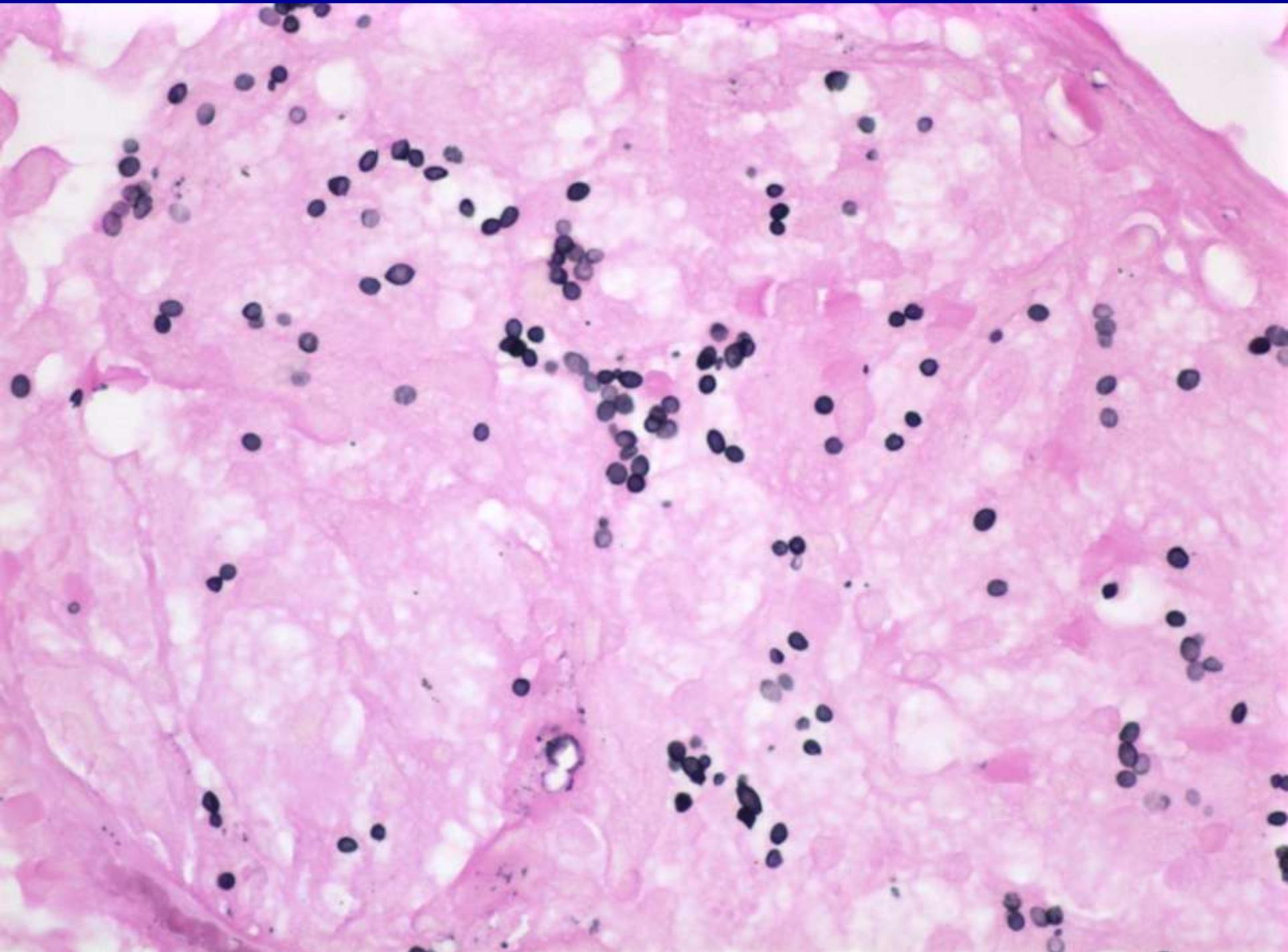
IHC

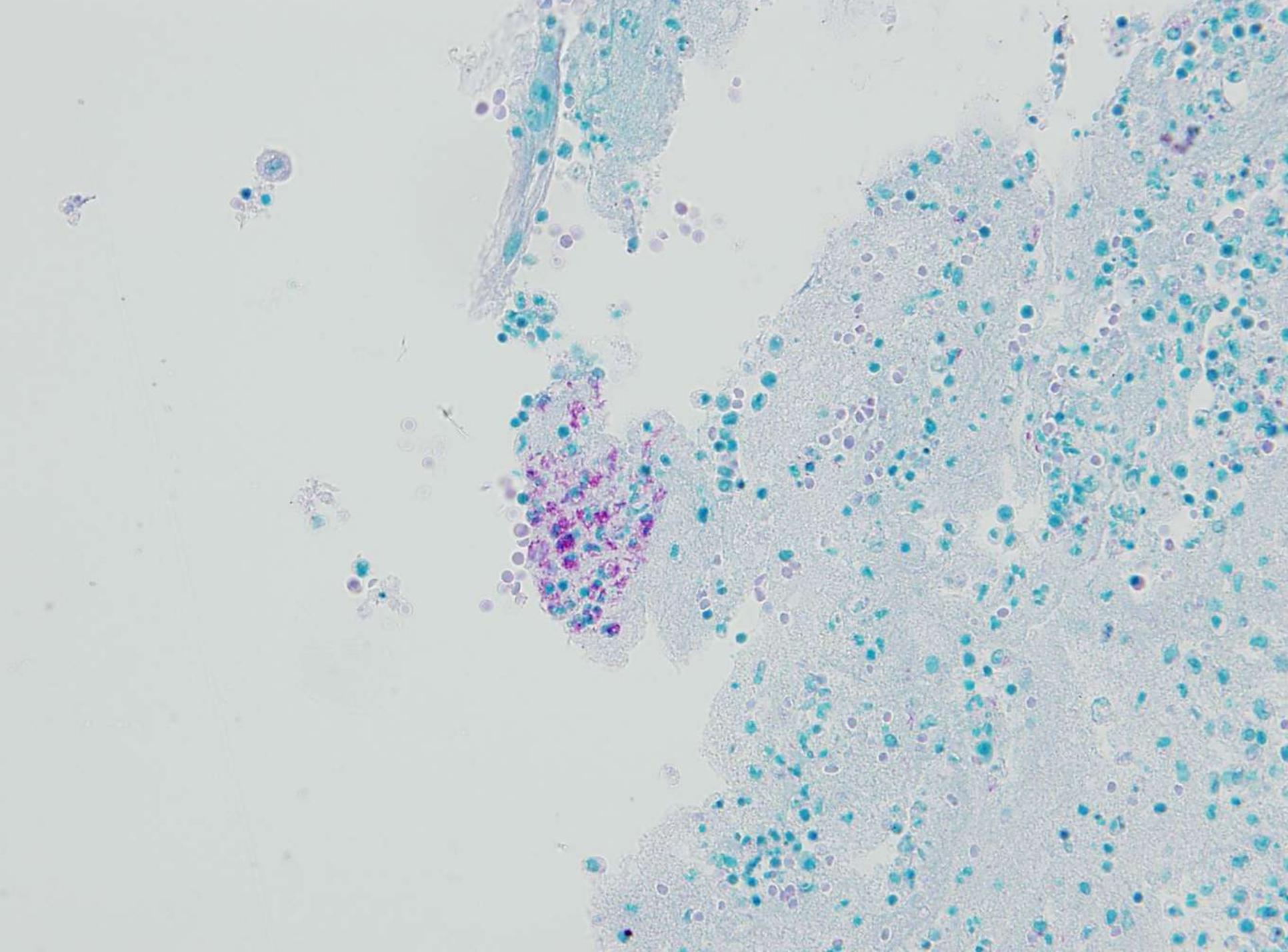


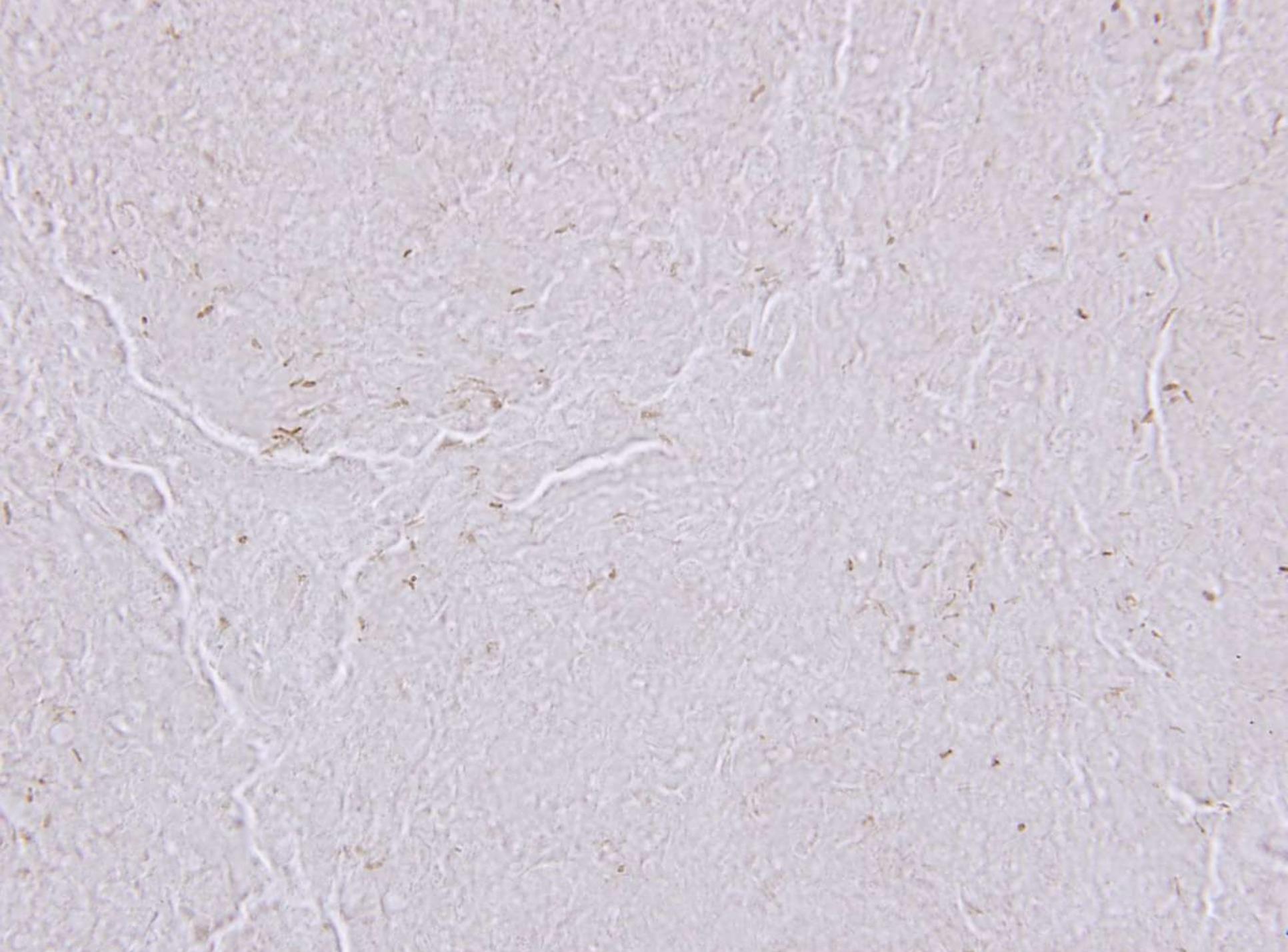


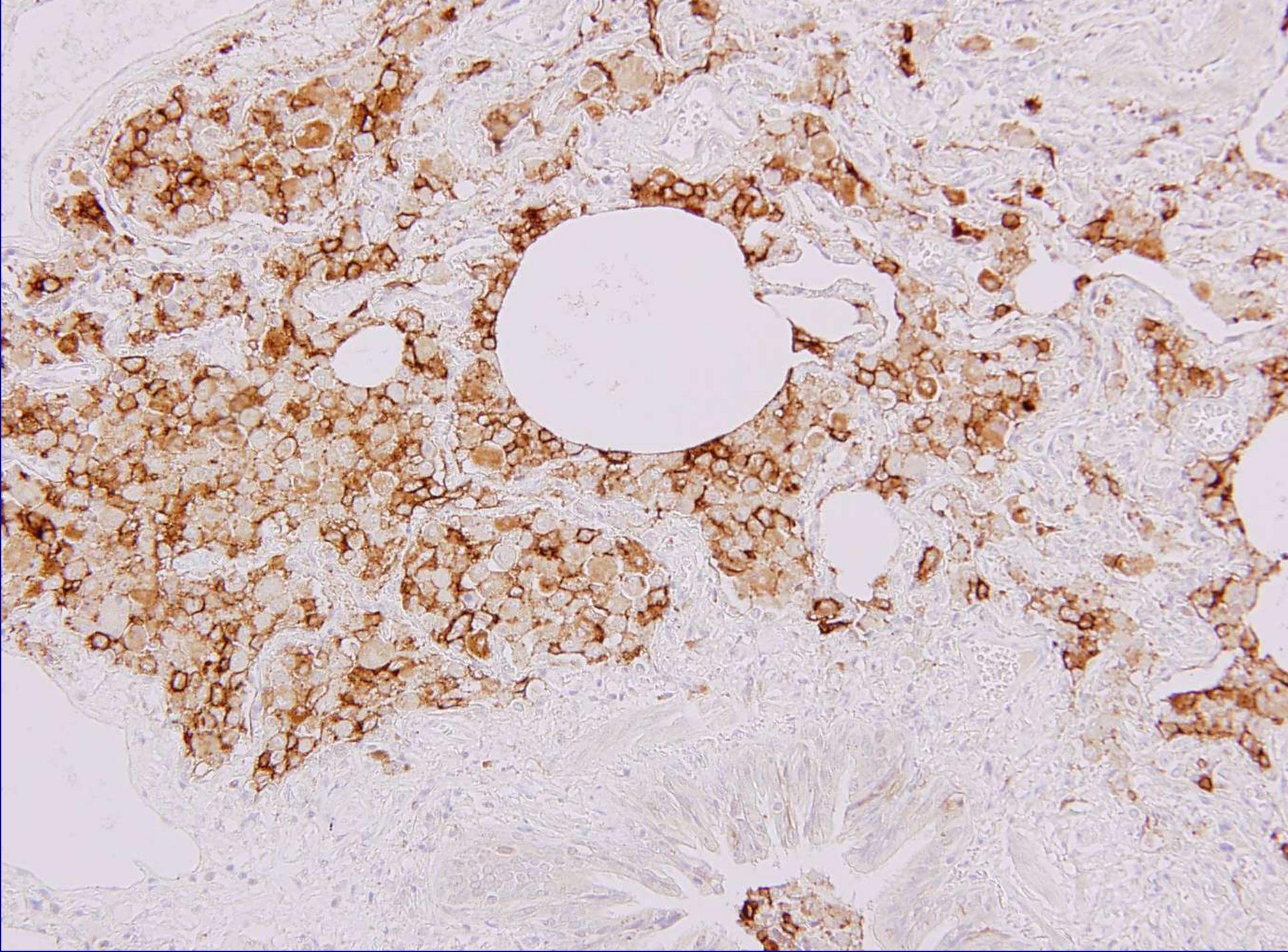


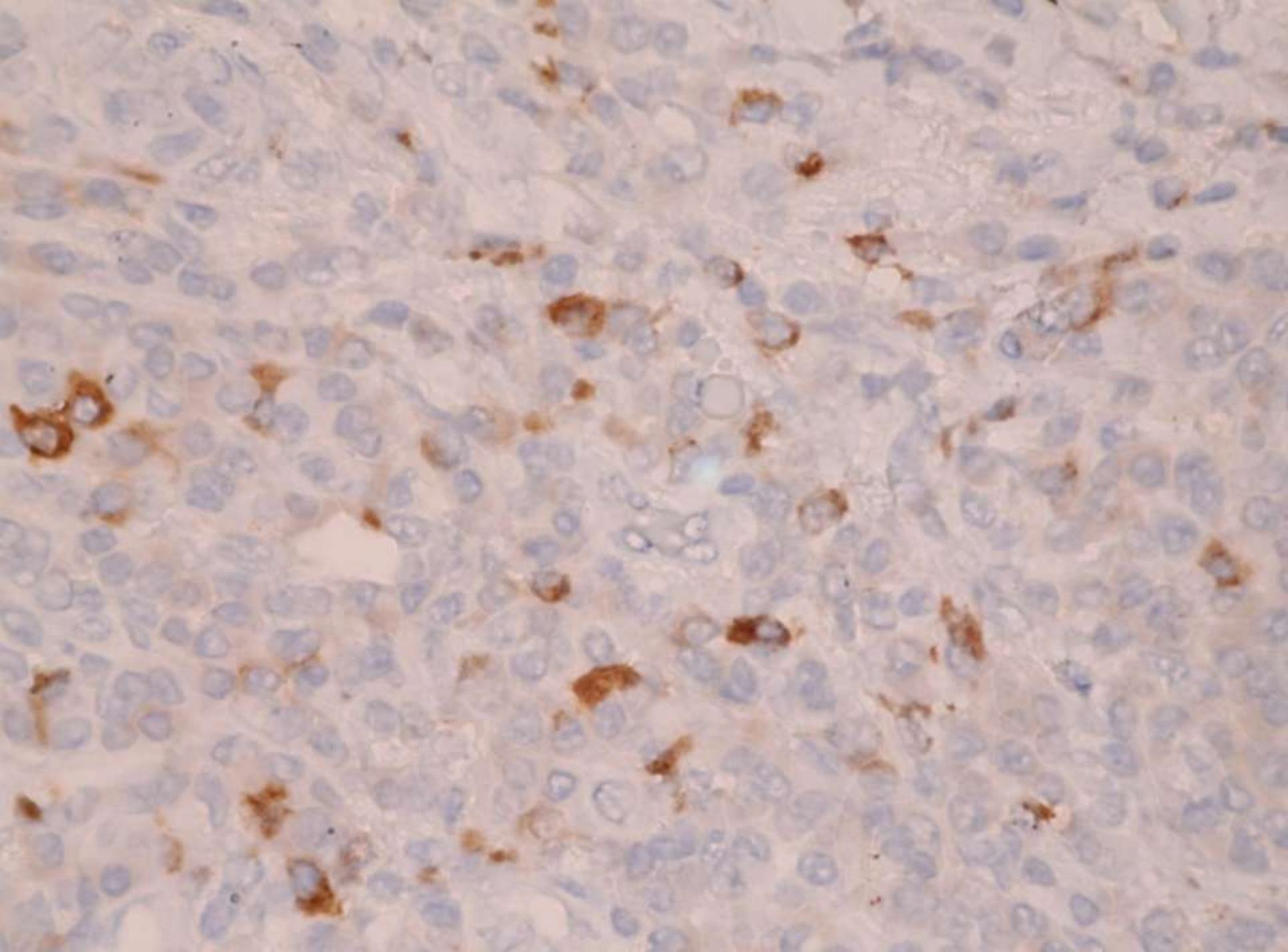












# Summary

- Distribution of inflammatory cells
- Quantity of inflammatory cells
- Quality of inflammatory cells
- Special stains
- Therapy!

# Thank you for attention!

