



Surgical Pathological Conference

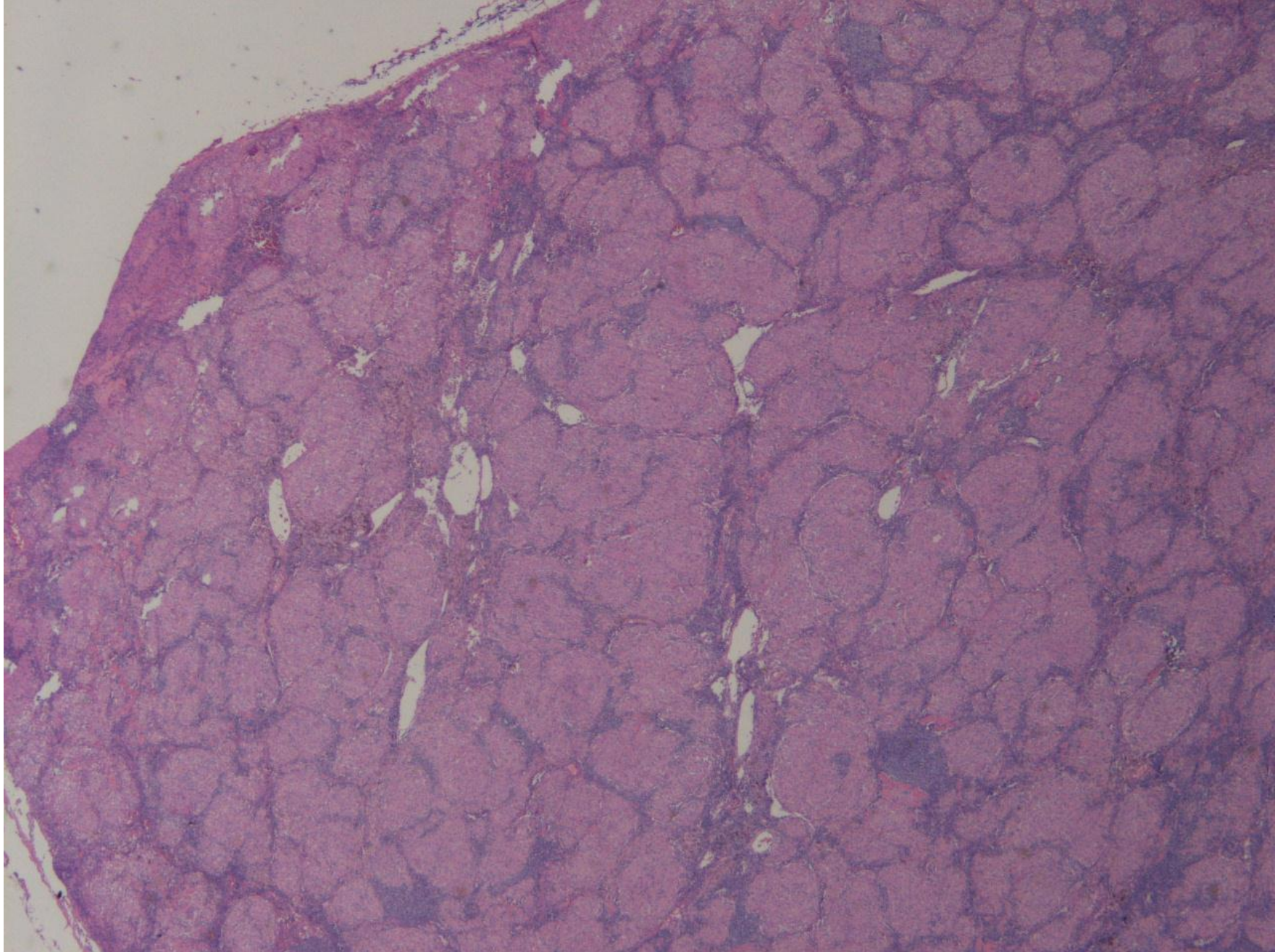
Presented by Dr. W.K. Kwang

病理科 鄺偉剛醫師

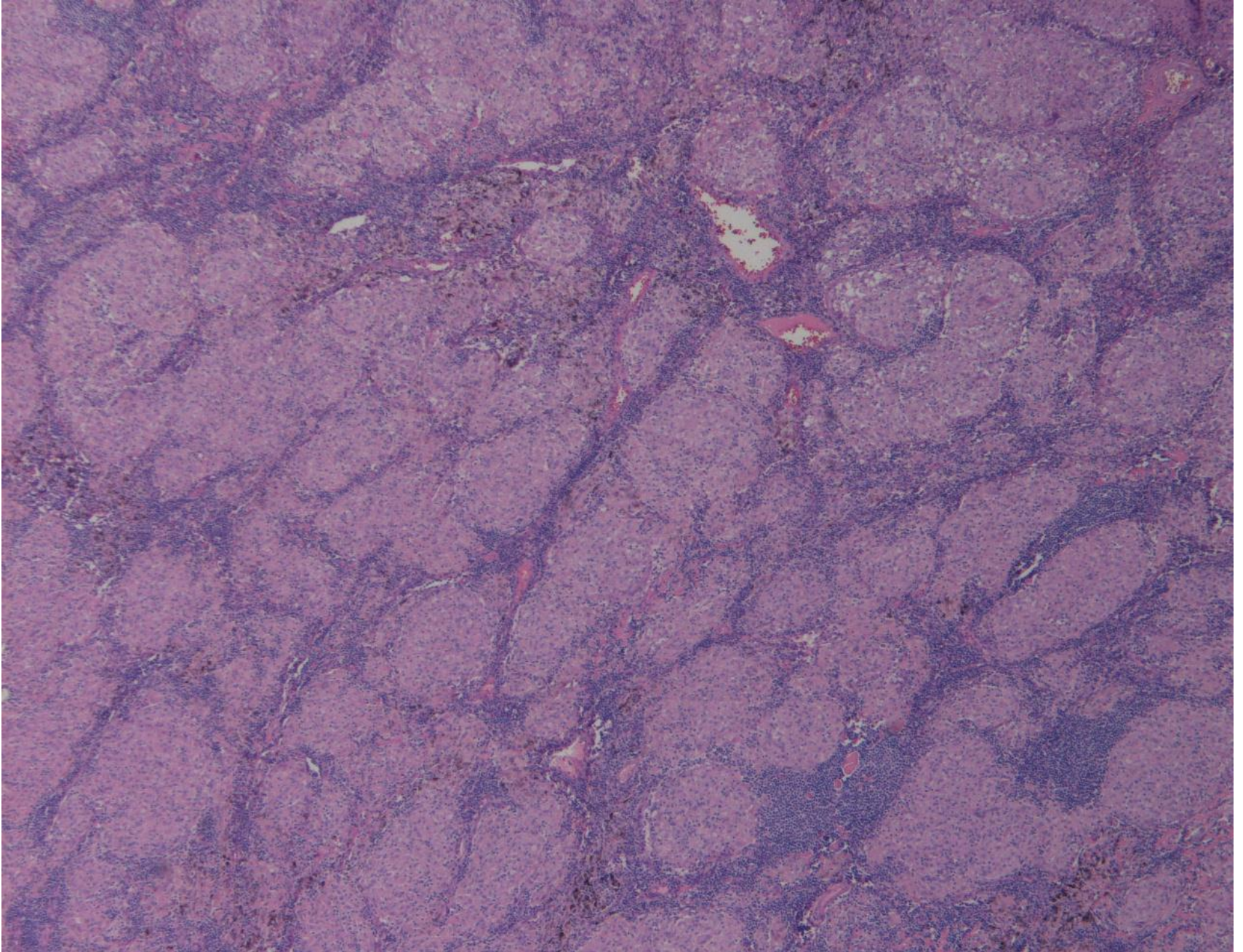
Anatomical Pathology

2016-02-27

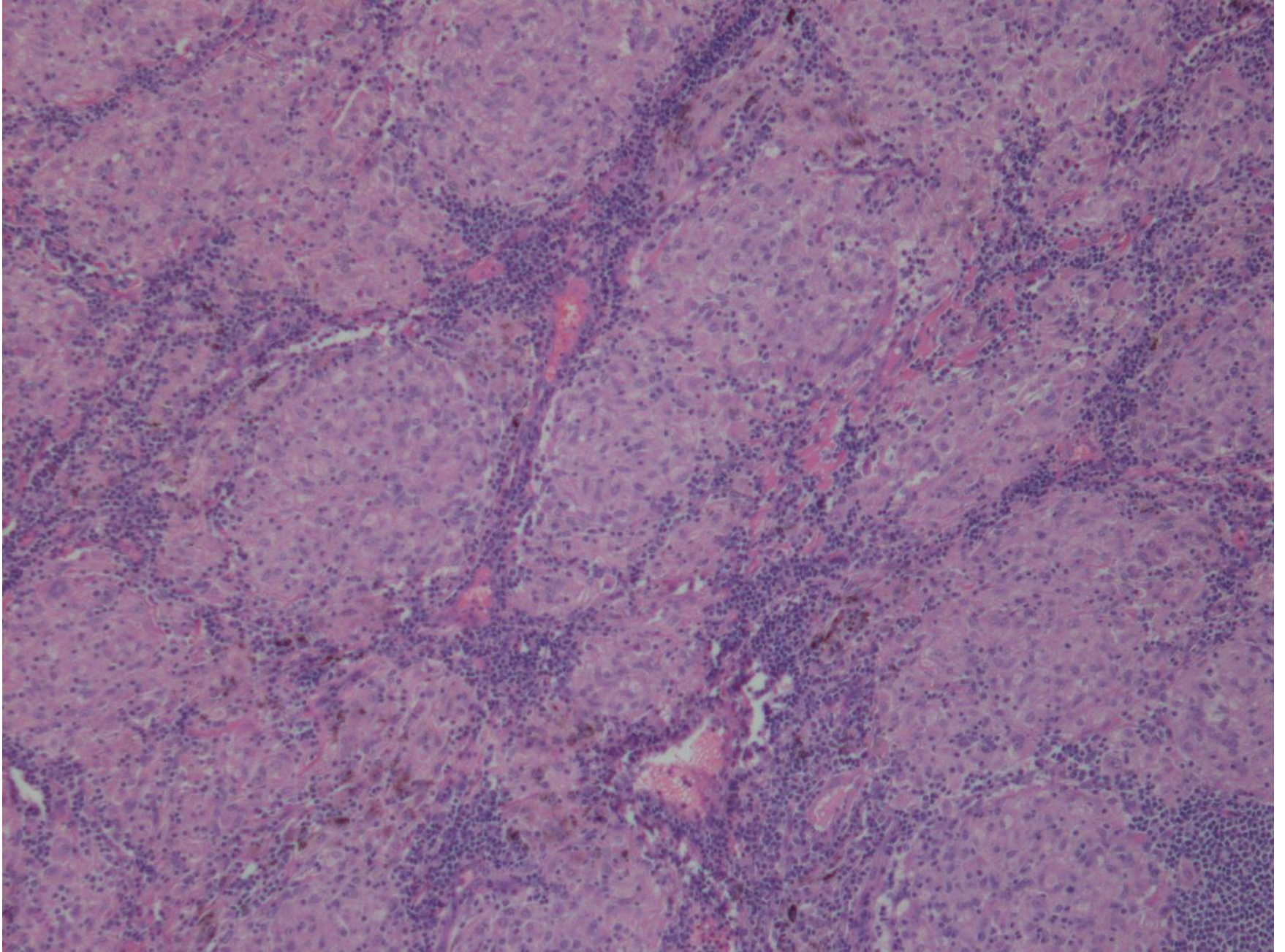
Path No. 104-14261, 14262, 15117



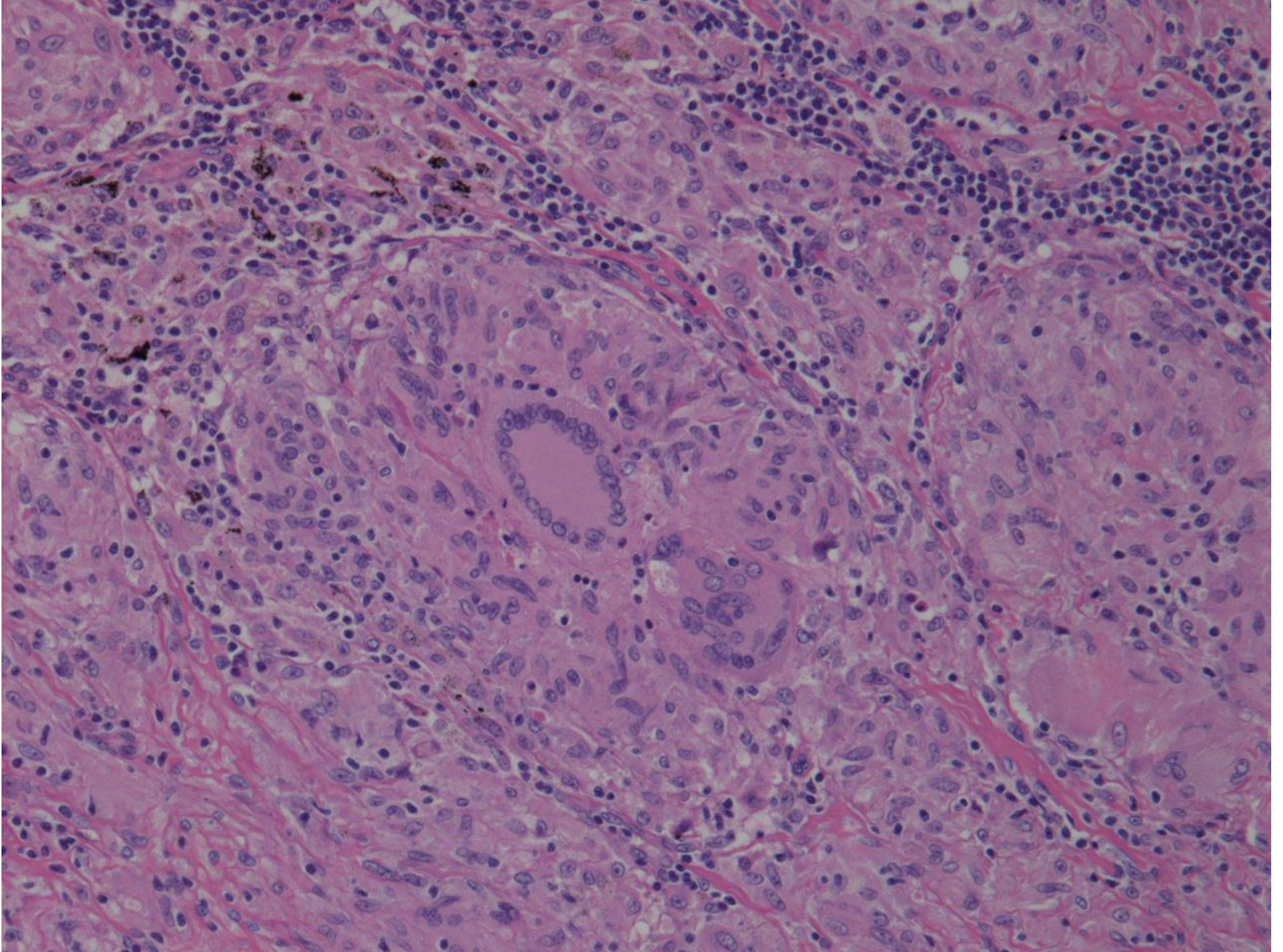
104-14262 subcarinal lymph node, 20X



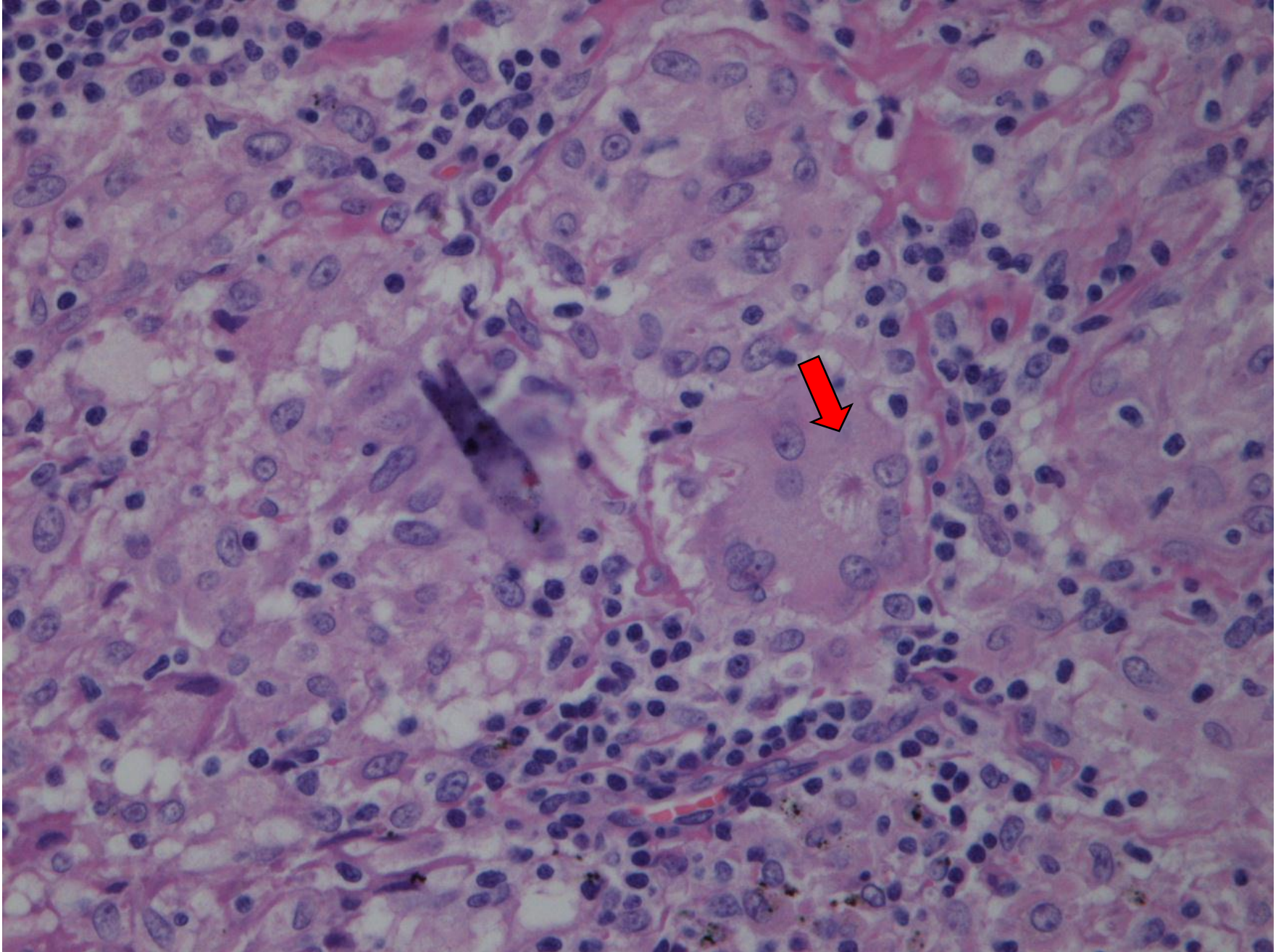
104-14262 40X



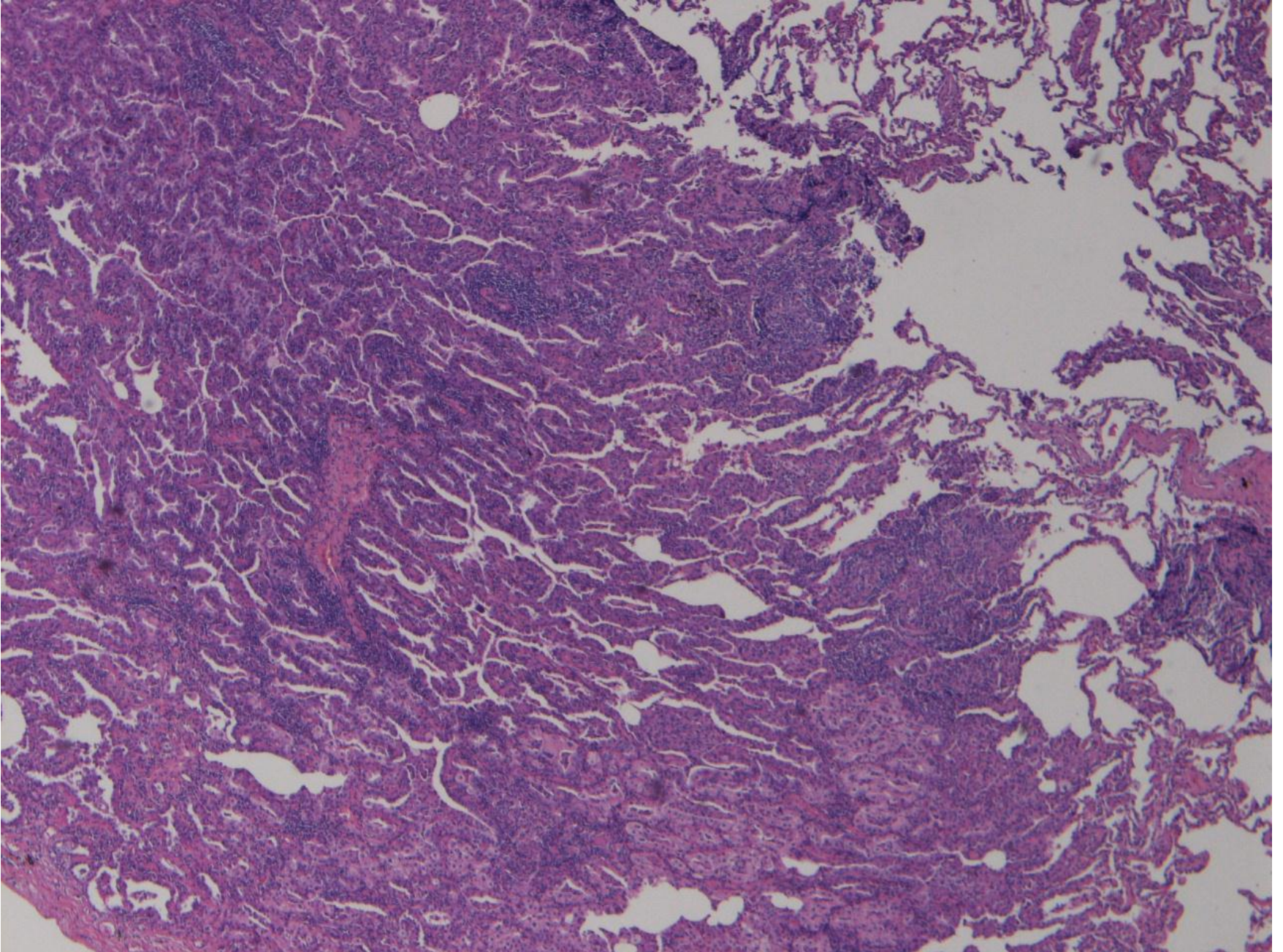
Many Well demarcated, noncaseating granulomas, 100X



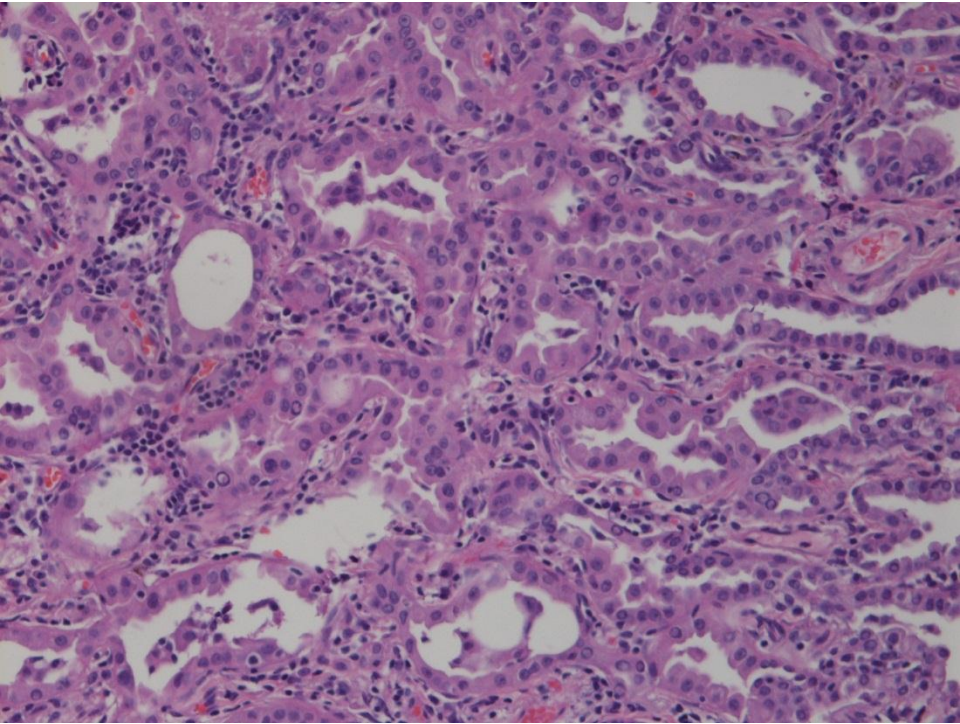
Multinucleated giant cells in the center of the granuloma, 200X



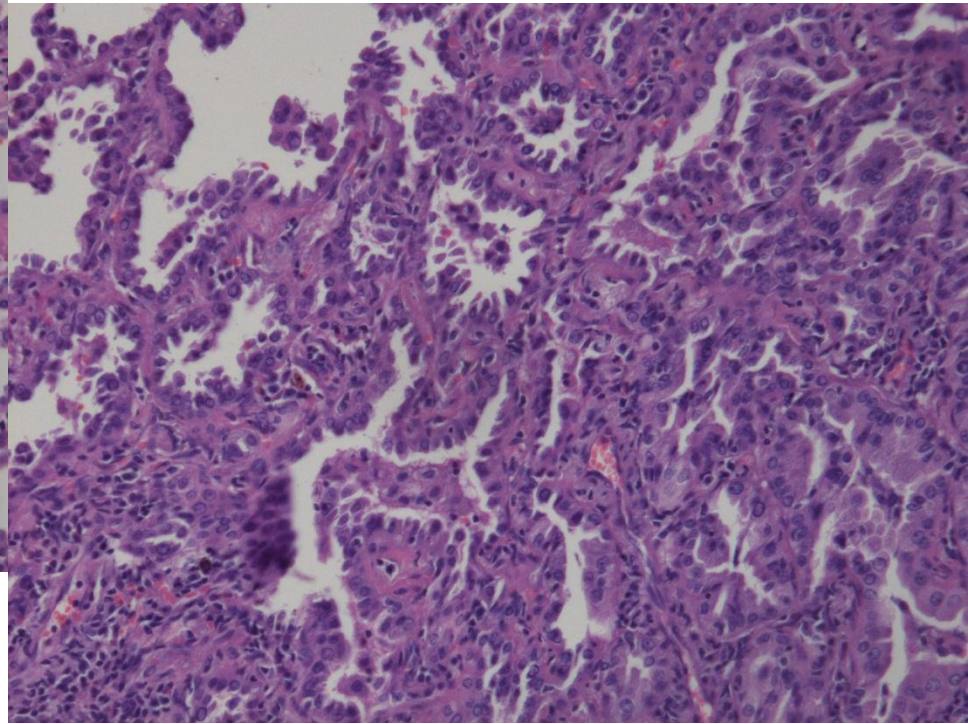
Asteroid body in the giant cell, 400X

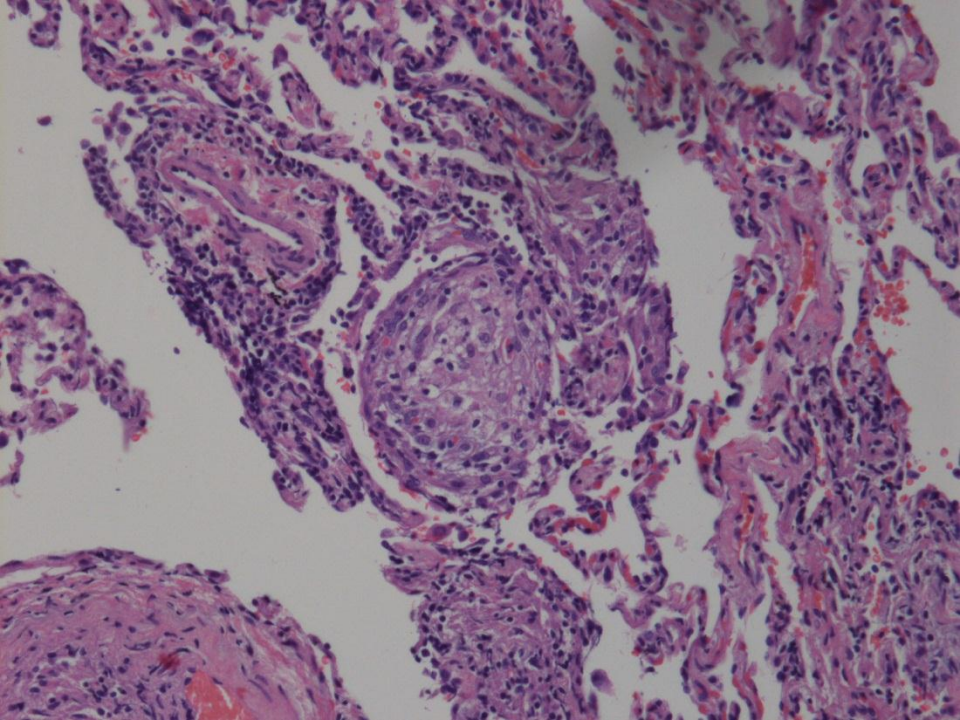
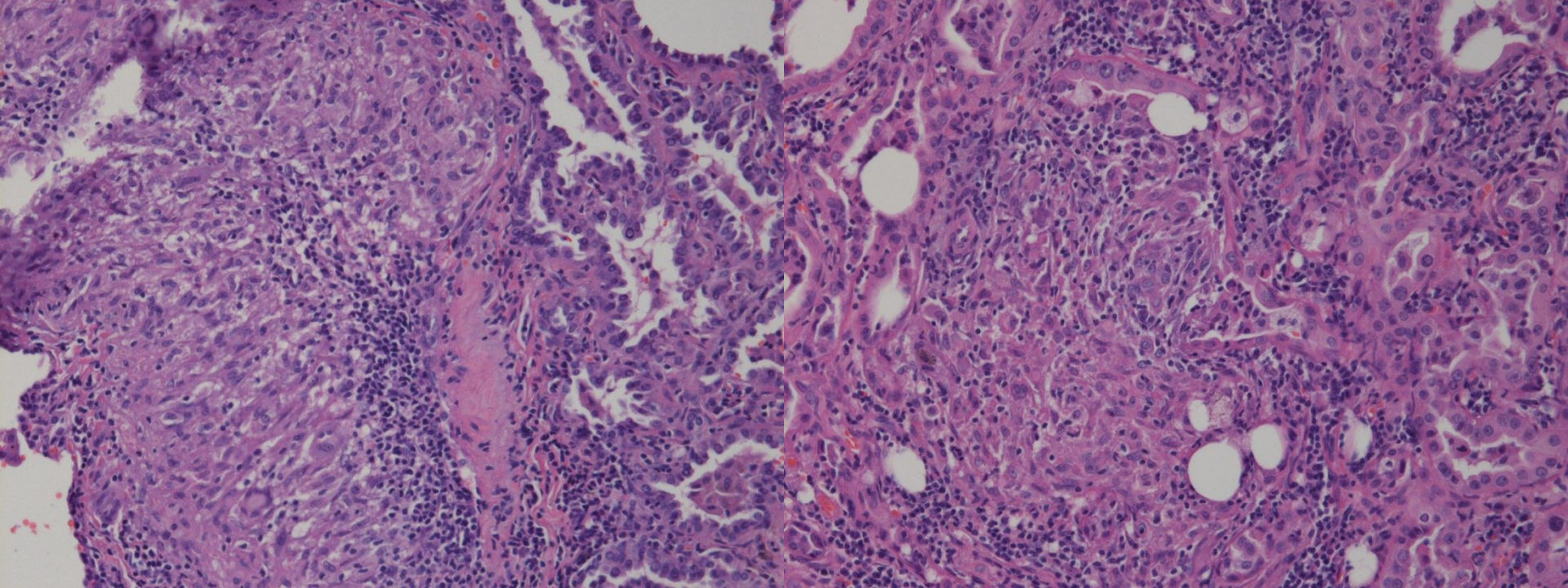


104-14261 lung, RLL, adenocarcinoma, 40X

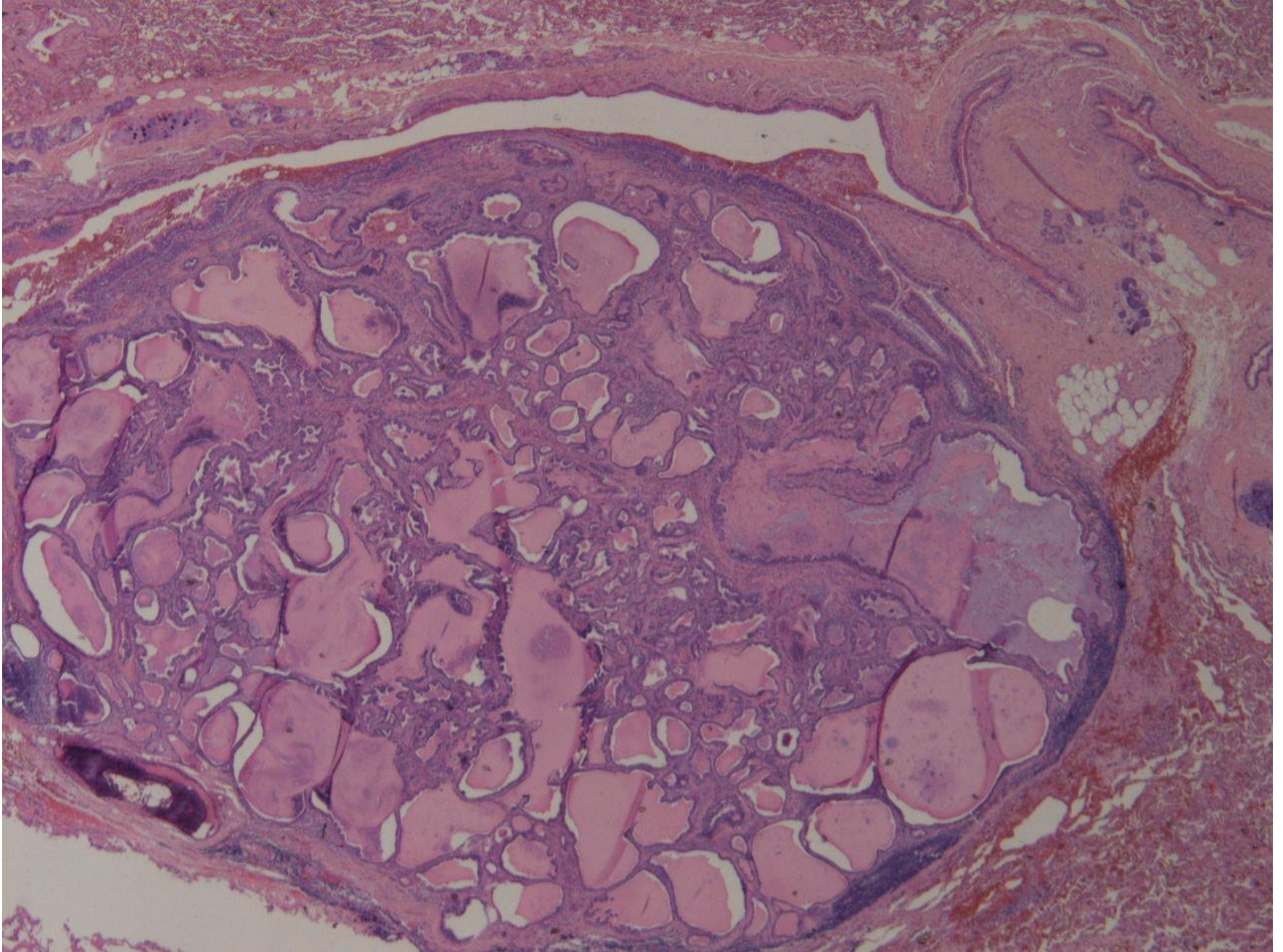


200X

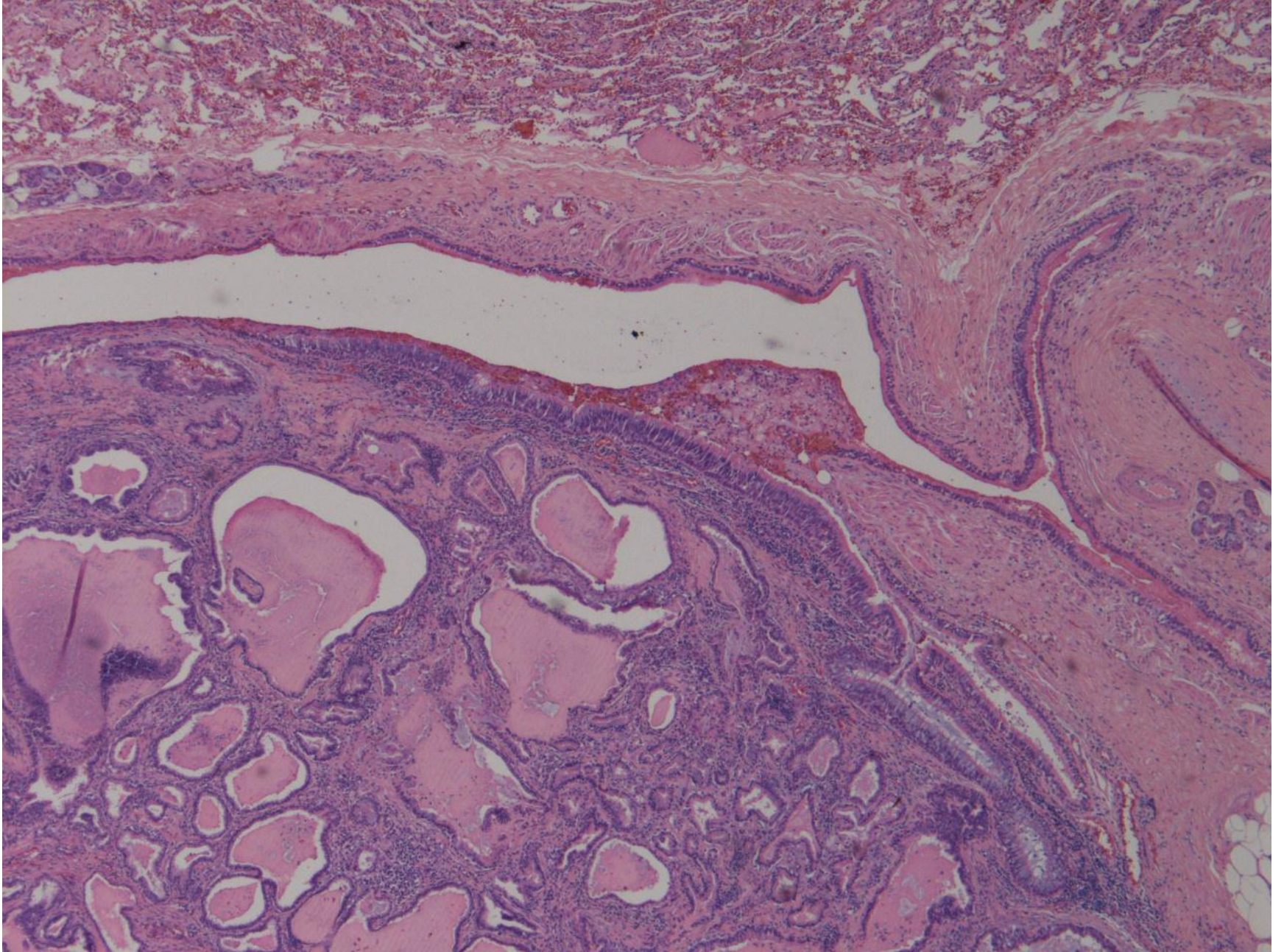




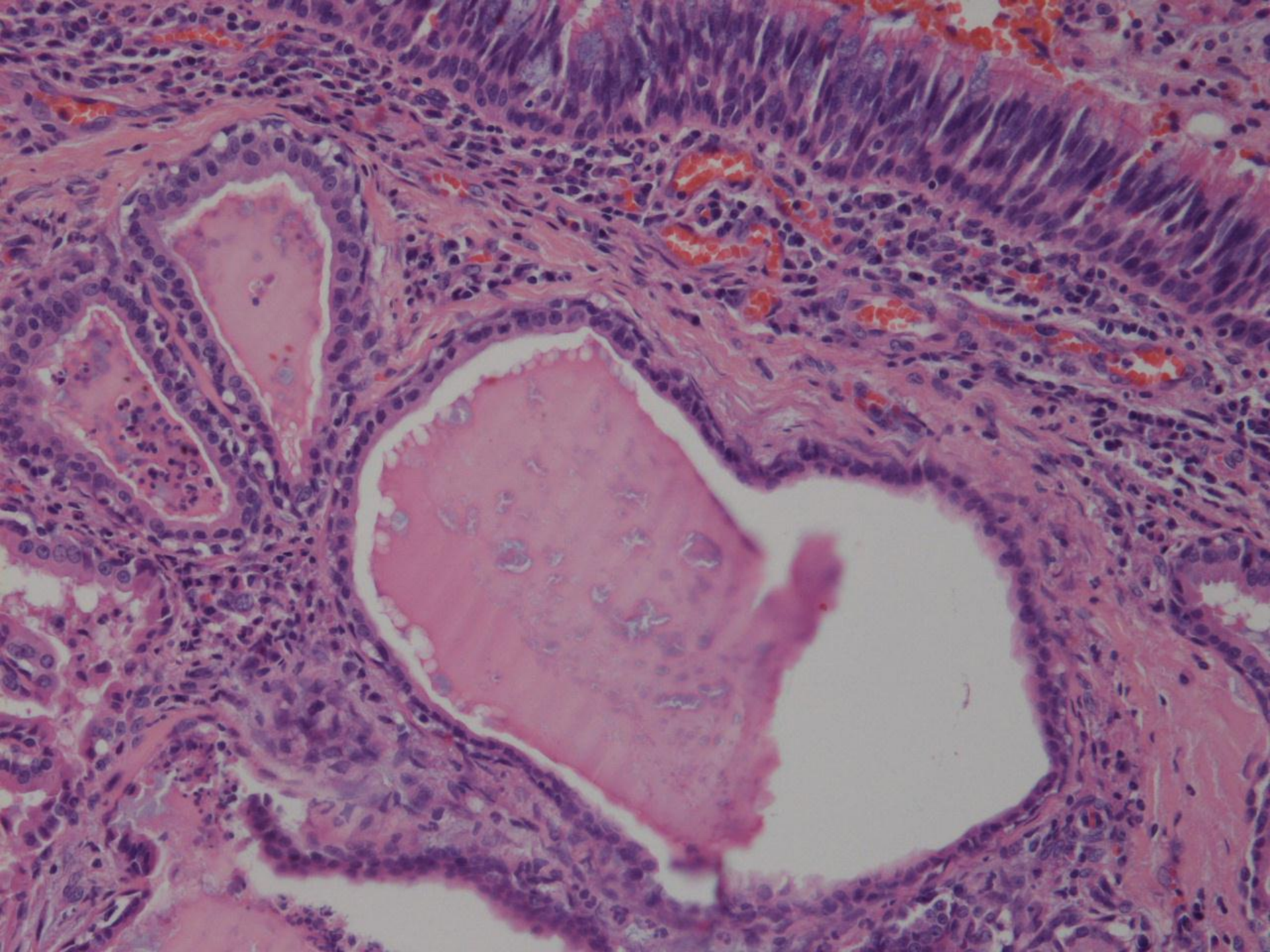
A few granulomas in lung
parenchyma and tumor



104-15117 Lung, RLL, mucous gland adenoma, 40X



104-15117 mucous gland adenoma, 200X





Pathological Diagnosis


Chronic granulomatous
inflammation of lymph nodes,
compatible with sarcoidosis

Adenocarcinoma

Mucous gland adenoma

Sarcoidosis

- Multiorgan disease characterized by non-caseating epithelioid granulomas
- Etiology is unknown, may represents exaggerated cellular immune response to an unidentified antigen
- Incidence: 10/100,000 per year
20-40 years
twice as frequently in female as in male
10 times more in African Americans

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- Most common sites:
pulmonary hilar lymph nodes, lung,
peripheral lymph nodes (95%)
liver, eyes, skin, bones, salivary
glands and other organs

Presentations

- Acute onset: fever, weight loss, erythema nodosum
good prognosis
- Chronic course: pulmonary, pericardial or myocardial involvement
unfavorable prognosis

Spontaneous recovery is common

Mortality rate: 1-5%

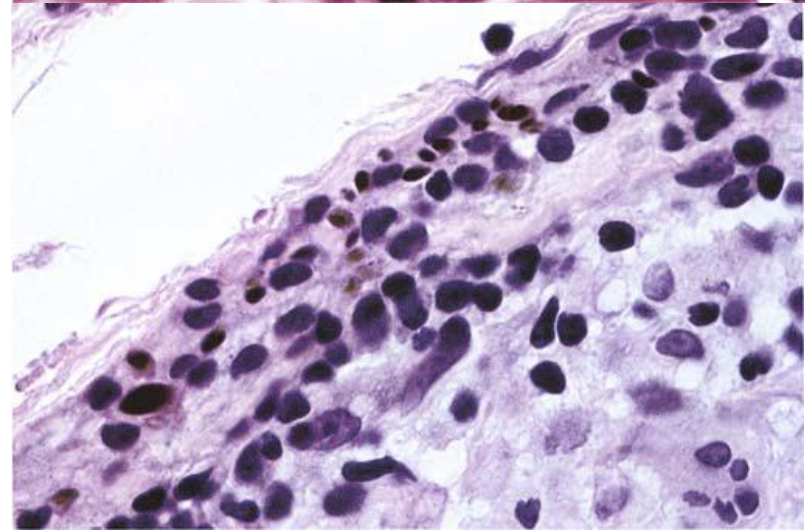
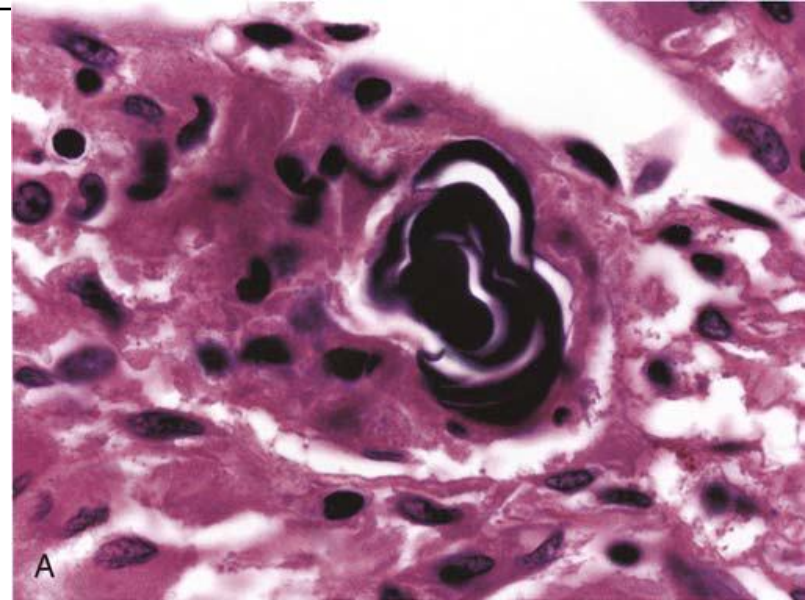


Laboratory Tests

- Hypergammaglobulinemia (>80%)
- Hypercalciuria with or without hypercalcemia (11%)
- Angiotensin-converting enzyme (ACE) elevated in serum

Histopathologic Features

- Non-caseating granuloma: epithelioid cells, scattered multinucleated giant cells, lymphocytes, plasma cells and fibroblasts
- Asteroid, Schaumann or Hamazaki-Wesenberg bodies






Differential Diagnosis

- Tuberculous granulomas
- Nontuberculous granulomas
- Histoplasma
- Berylliosis, metal dusts or organic antigens



Clinical association with malignancy

- Whether sarcoidosis predisposes to malignancy and/or vice versa remains a contentious issue
- Malignancies and autoimmune processes can also induce sarcoidosis-like granulomatous reactions in the lung or regional lymph nodes



*Sarcoidosis is a diagnosis of
exclusion at clinical, radiographic
and morphologic levels*



Mucous gland adenoma

- Extremely rare
- Mean age: 52 years
- Location: central
- Well-defined intraluminal mass, arise from the mucus glands of the bronchus