

Tumours of Meninges

Meningiomas

- Origin- pia- arachnoid
- 20% of intracranial tumours
- More in females
- Sites: cerebral convexities, falx cerebri, olfactory groove, CP angle, Spinal cord
- More in neurofibromatosis 2 - deletion of 22q - *NF2* gene - *merlin*

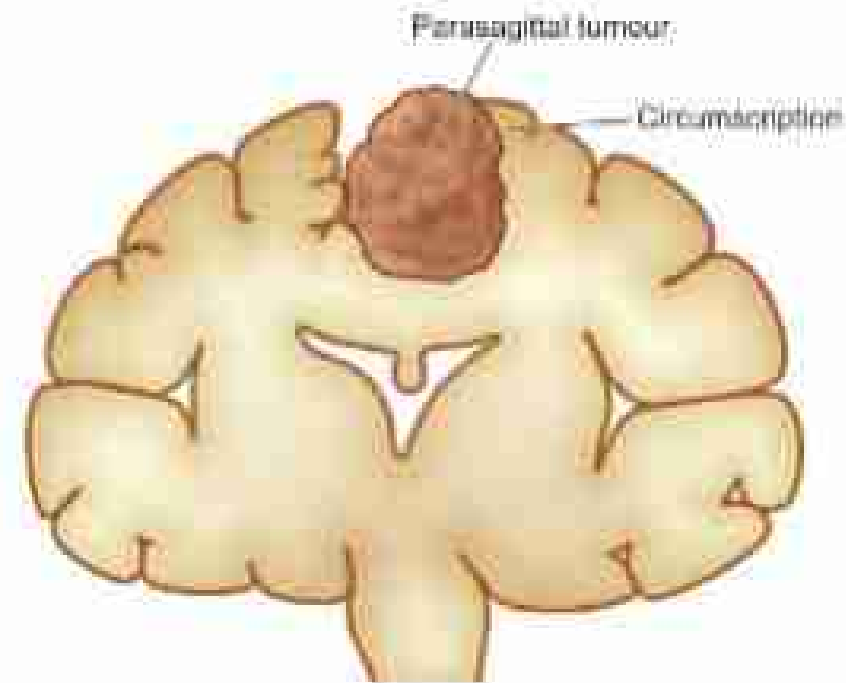
- **Pathology**

Gross:

Well circumscribed
spherical/hemispherical

Attached to dura

Cut section: firm, fibrous,
calcification





Meningioma. The broad dural base depicted here is characteristic.



Microscopy - Types

Grade I variants

- Meningotheliomatous
- Fibroblastic
- Transitional
- Angiomatous
- Lymphocyte rich
- Metaplastic
- Microcystic
- Psammomatous
- Secretory

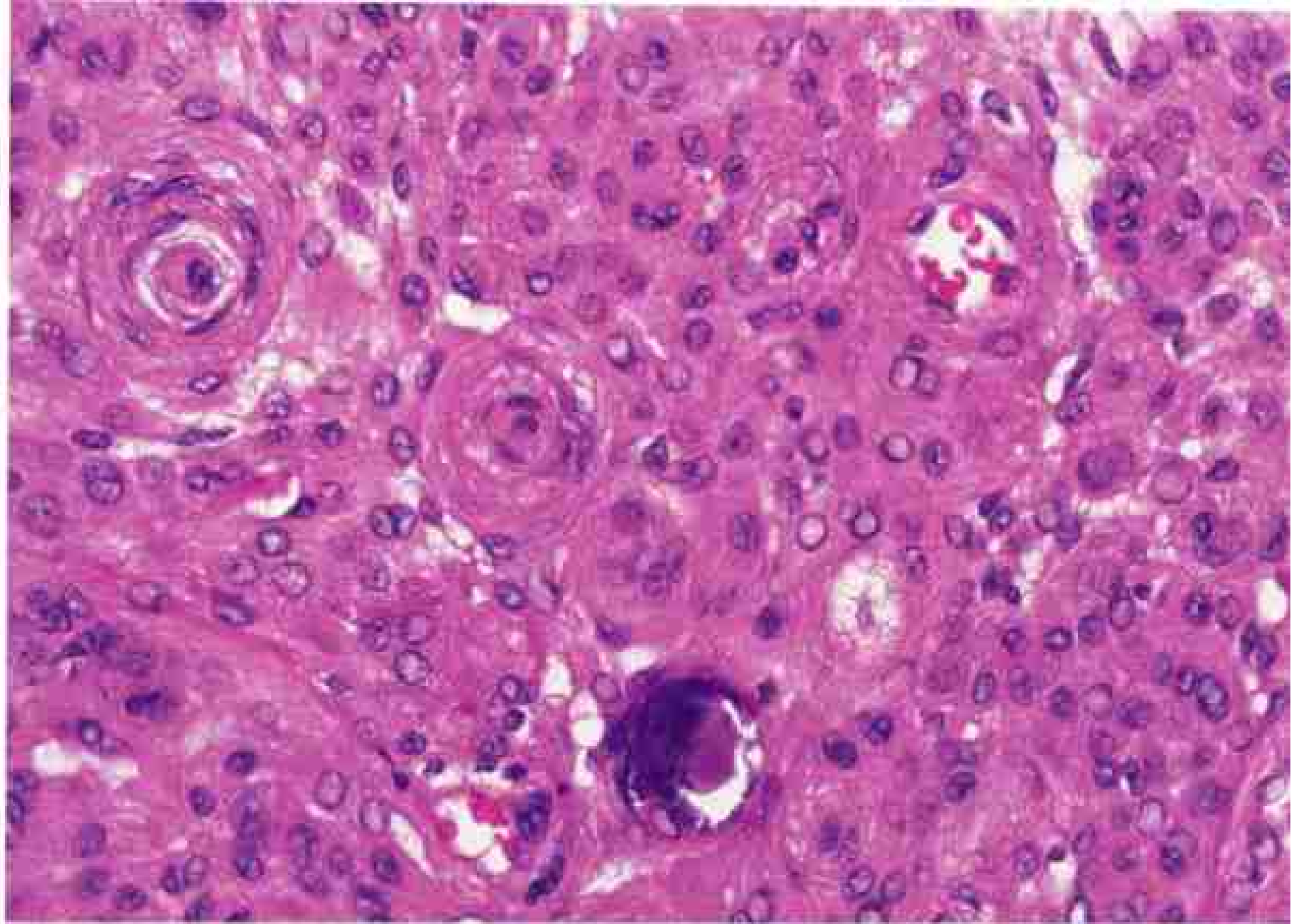


Grade II variants

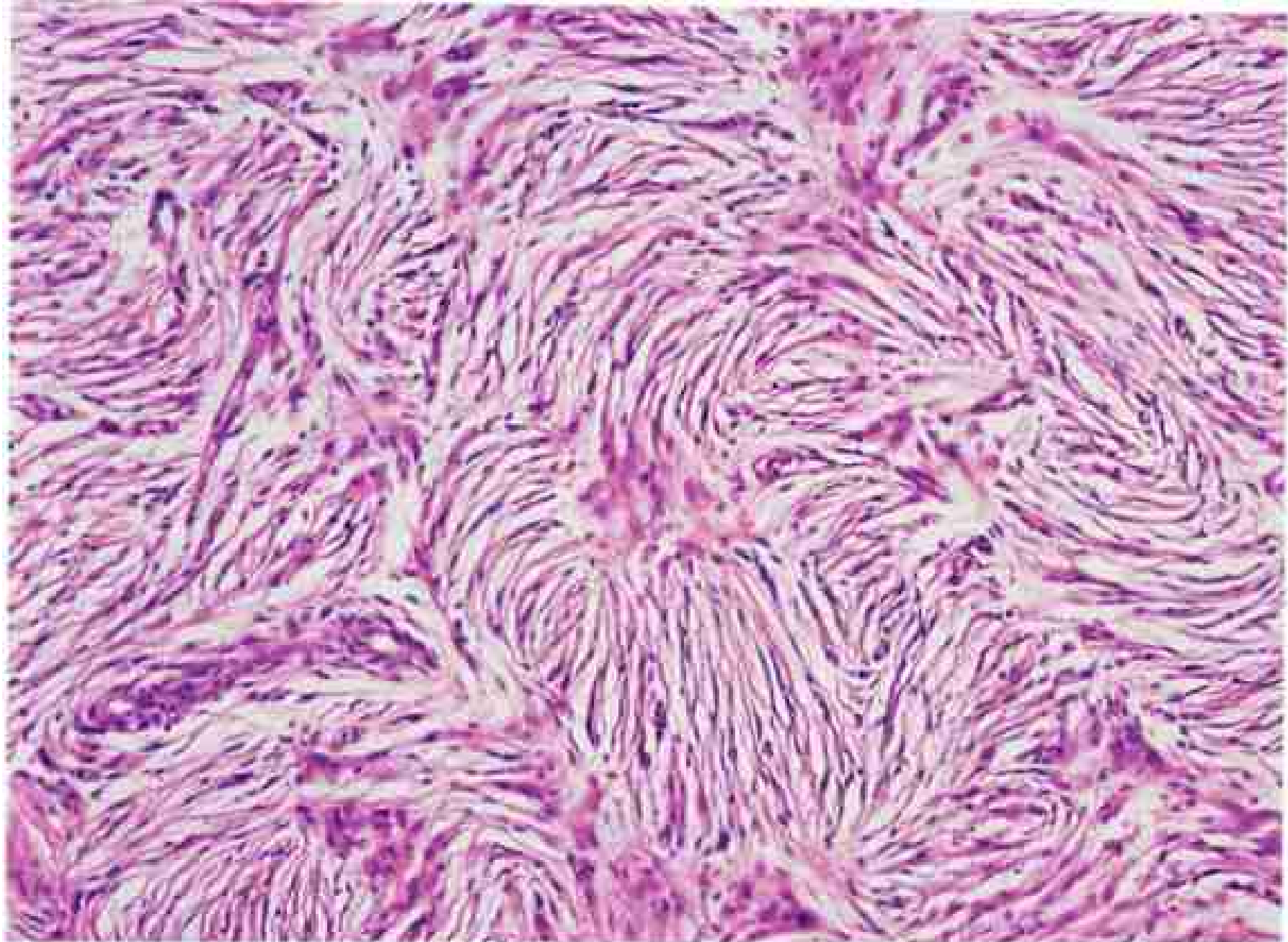
- Atypical
- Chordoid
- Clear cell

Grade III variants

- Papillary
- Anaplastic
- Rhabdoid

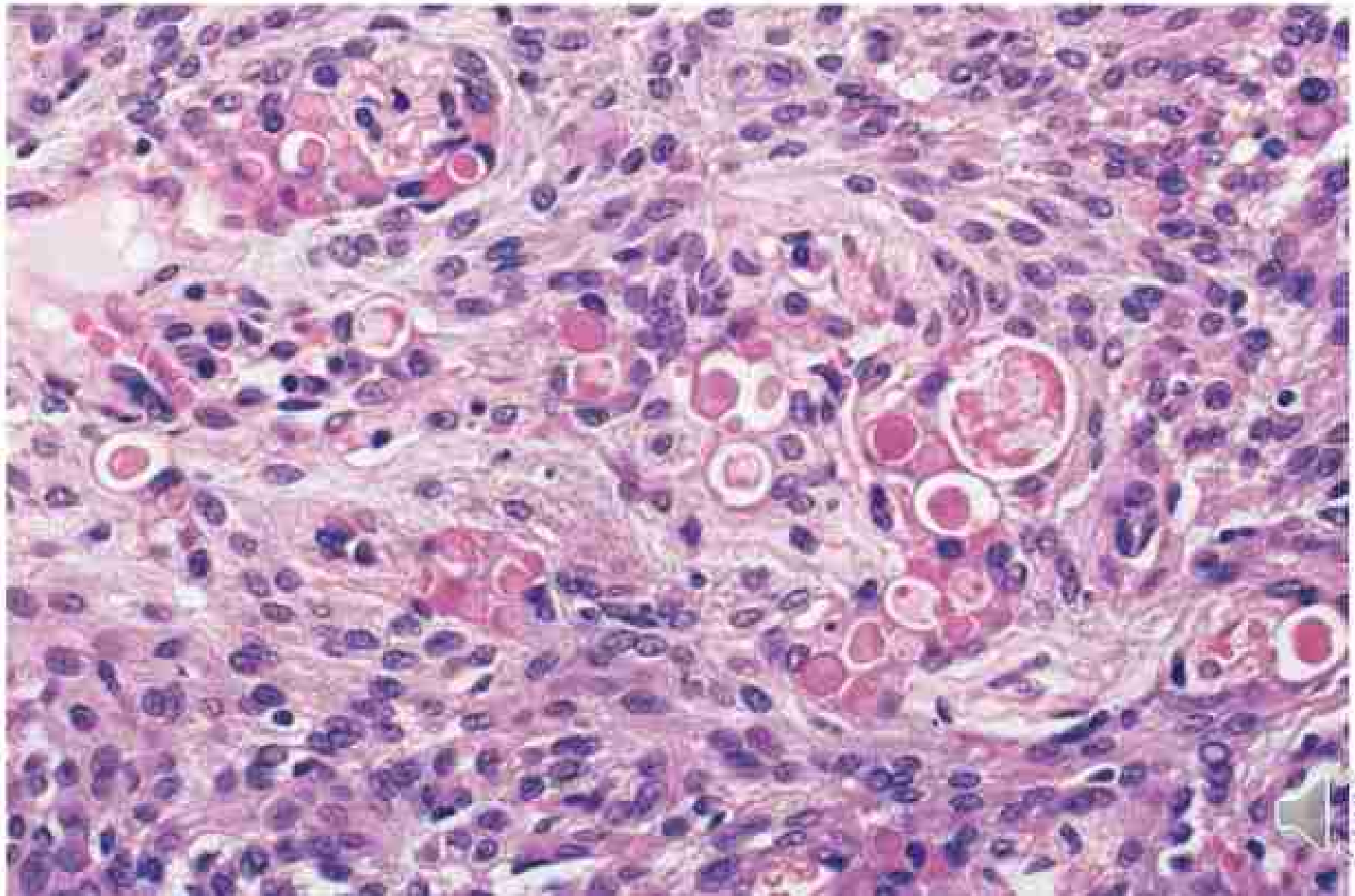


Meningotheliomatous (syncytial) meningioma - Cellular whorls, and a psammoma body

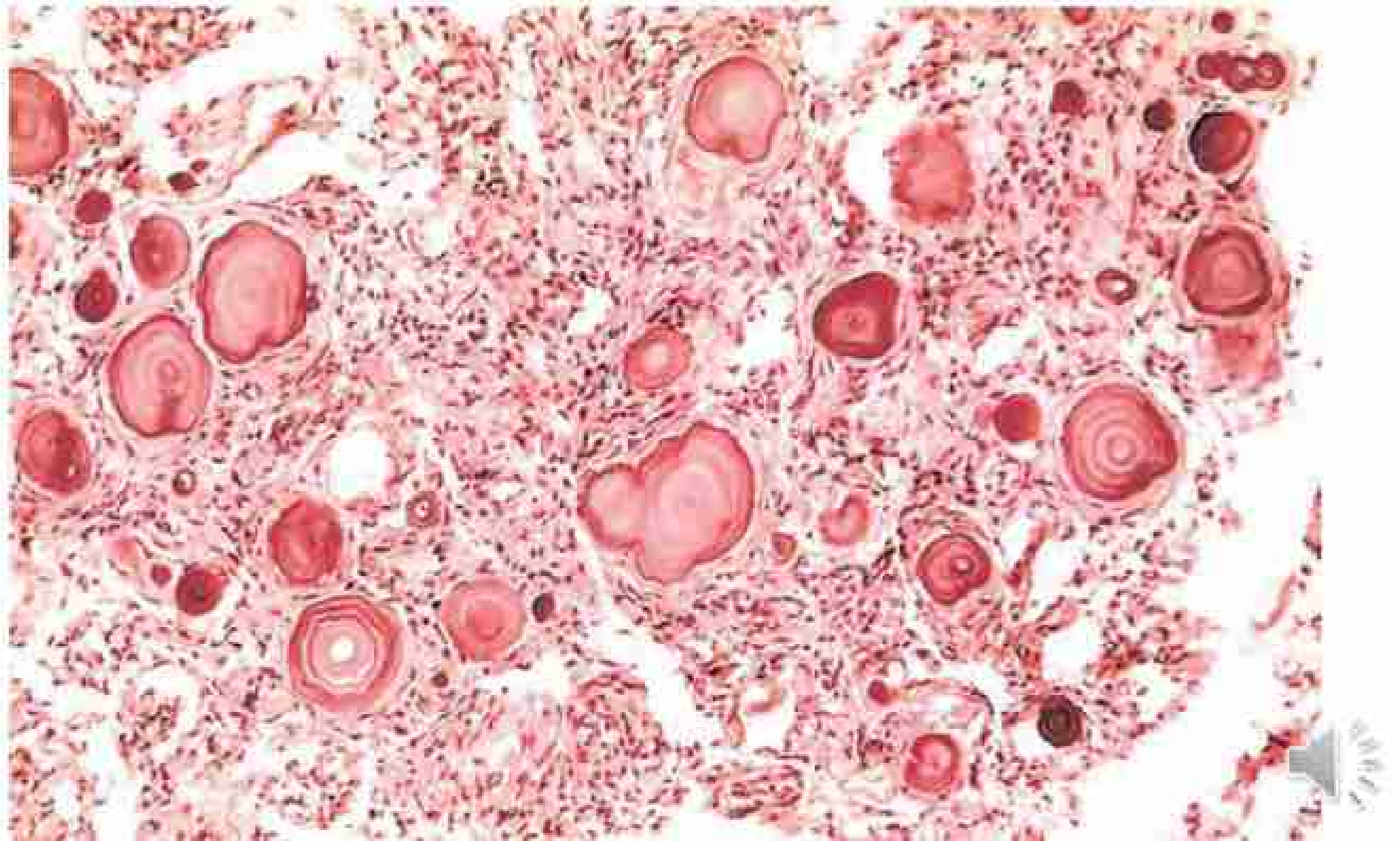


Fibroblastic Meningioma - Cellular spindling and a fascicular or storiform architecture

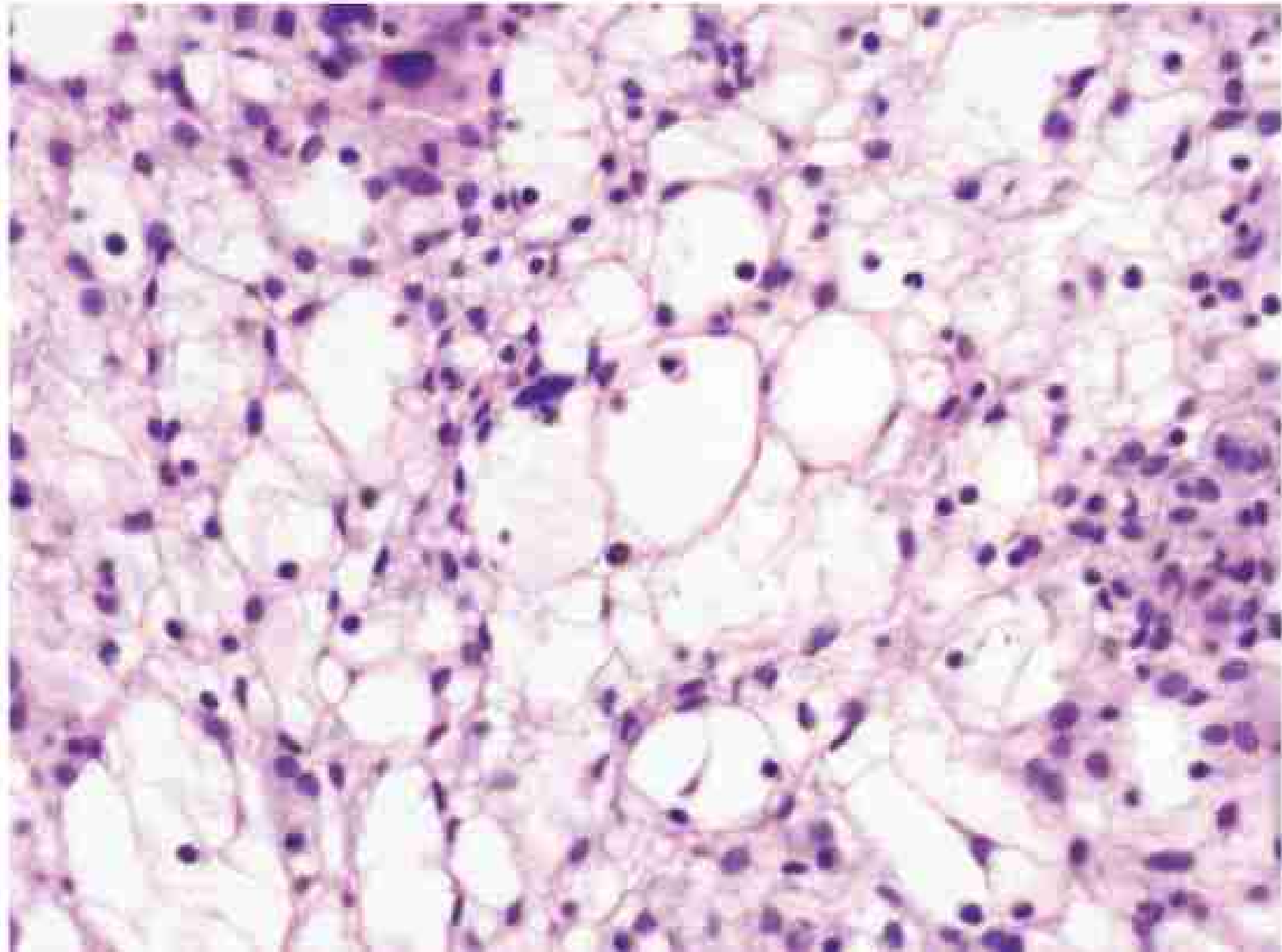
Secretory meningioma



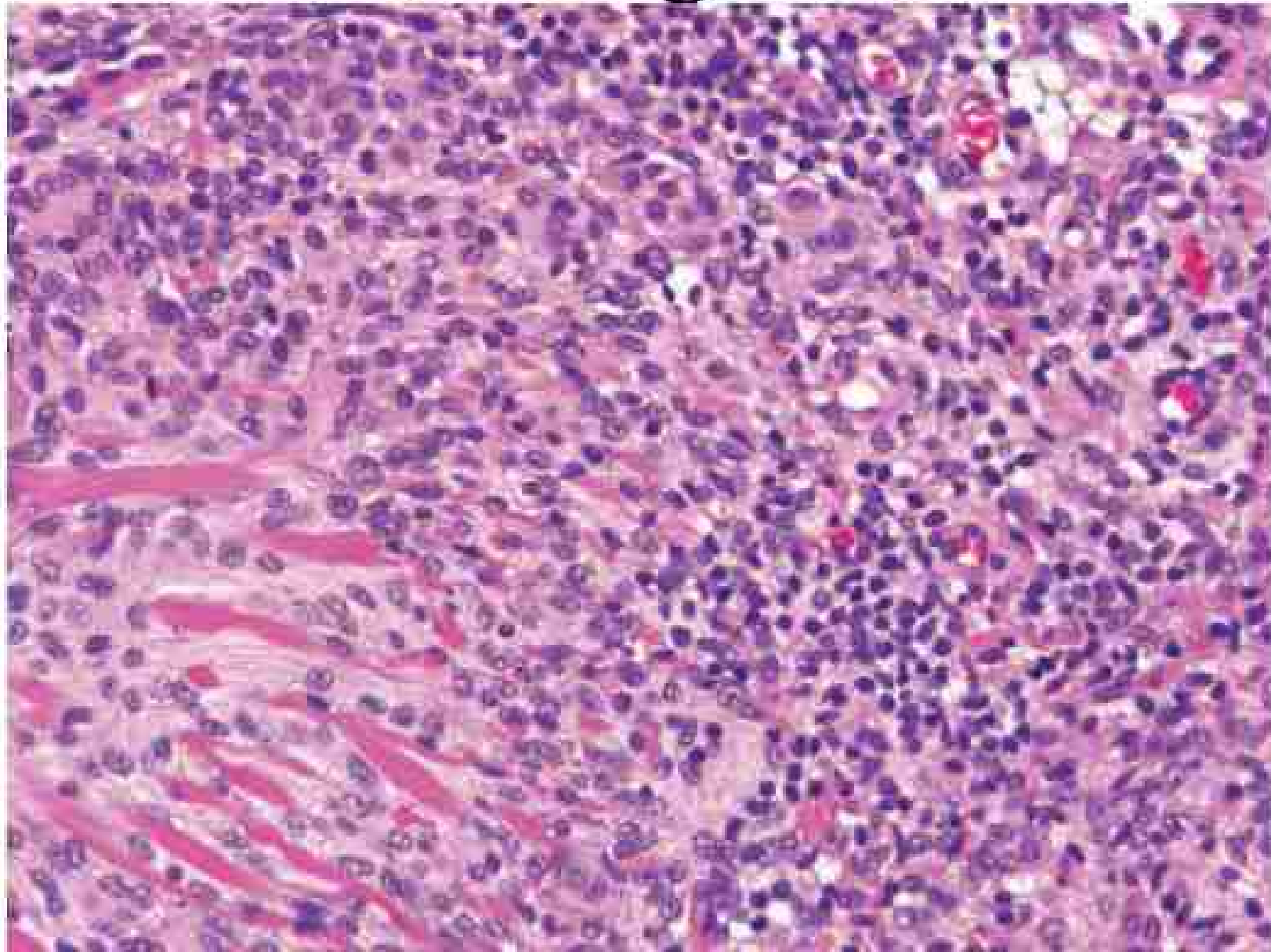
Psammomatous meningioma



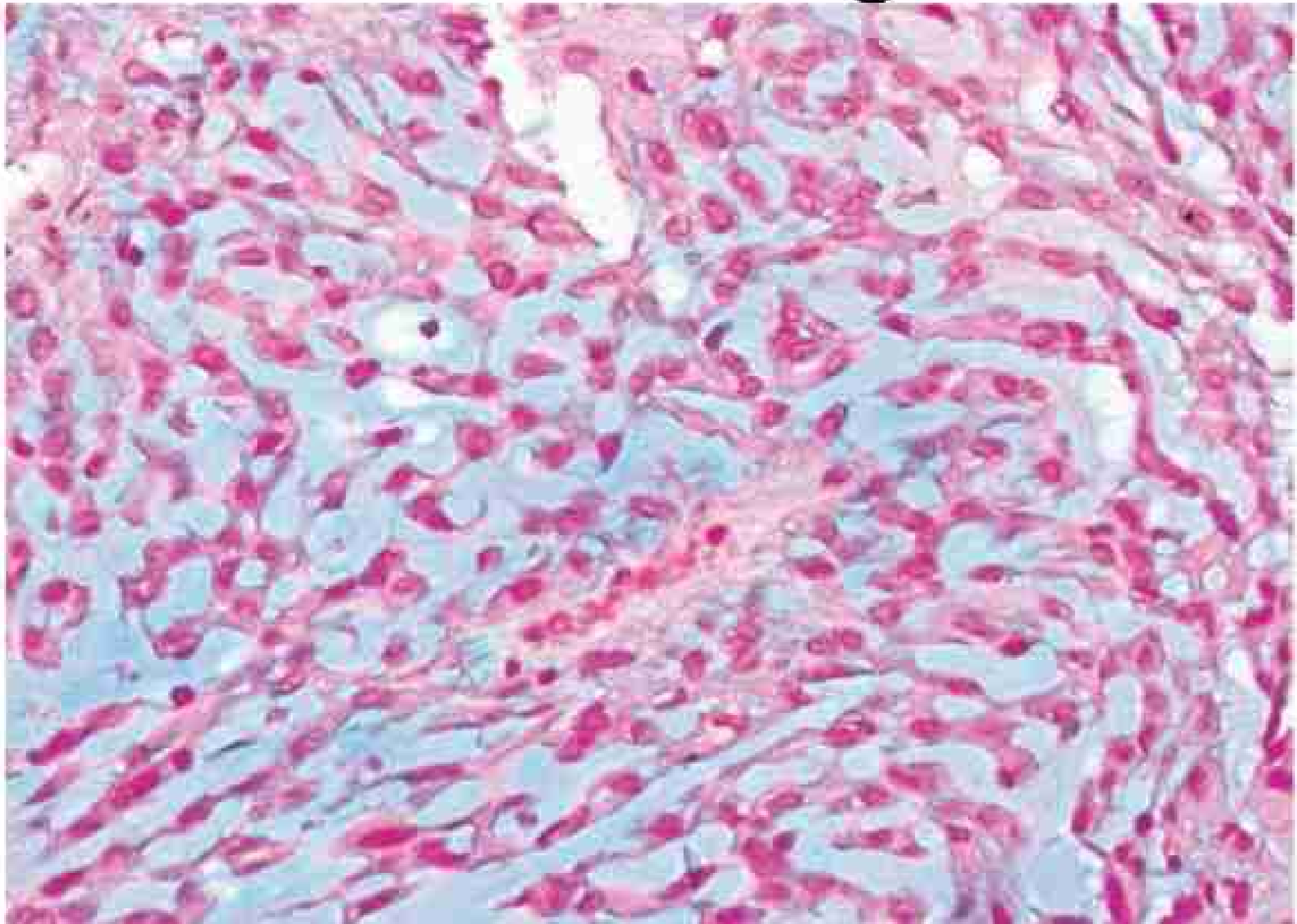
Microcystic meningioma



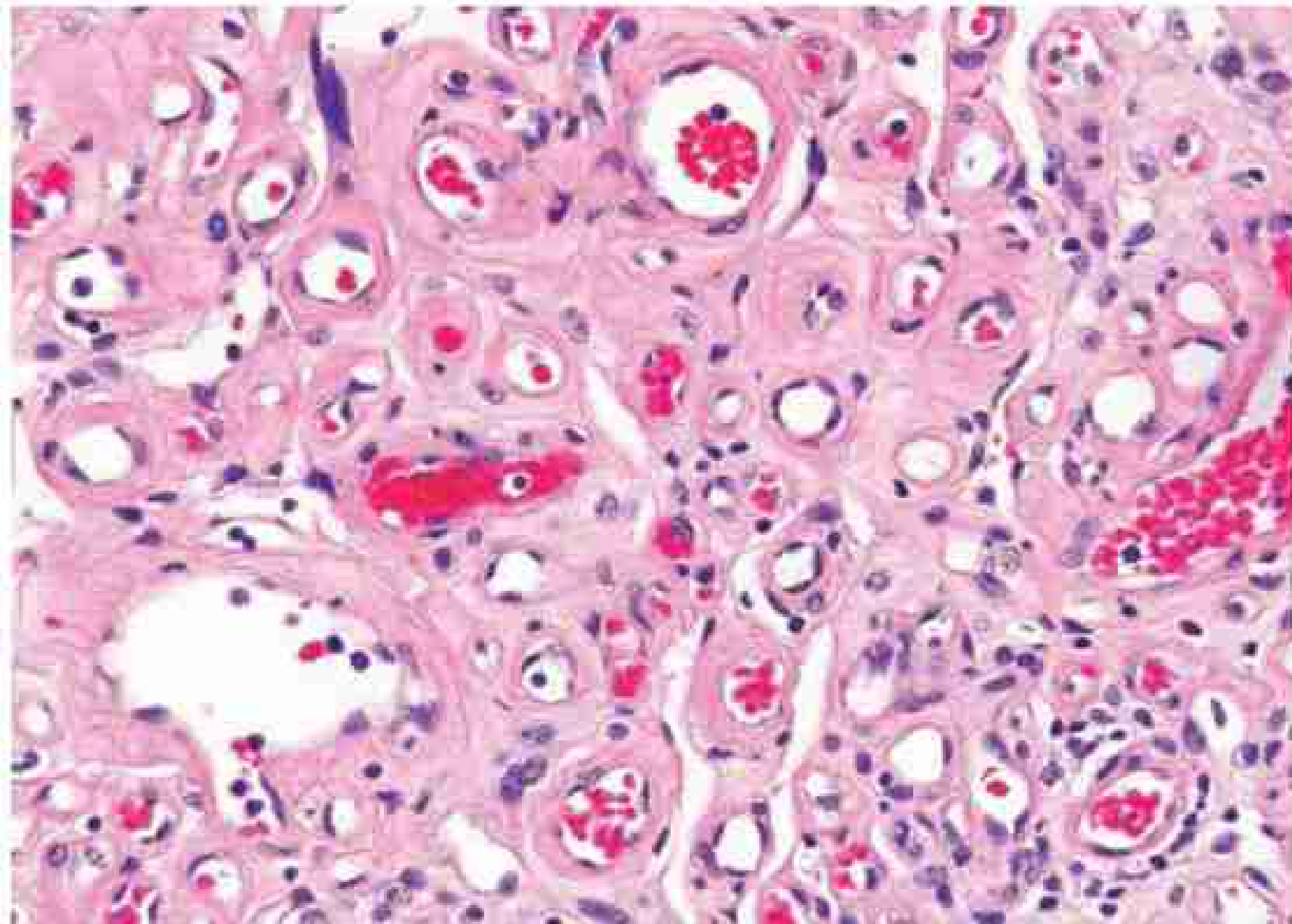
Lymphoplasmacyte rich meningioma



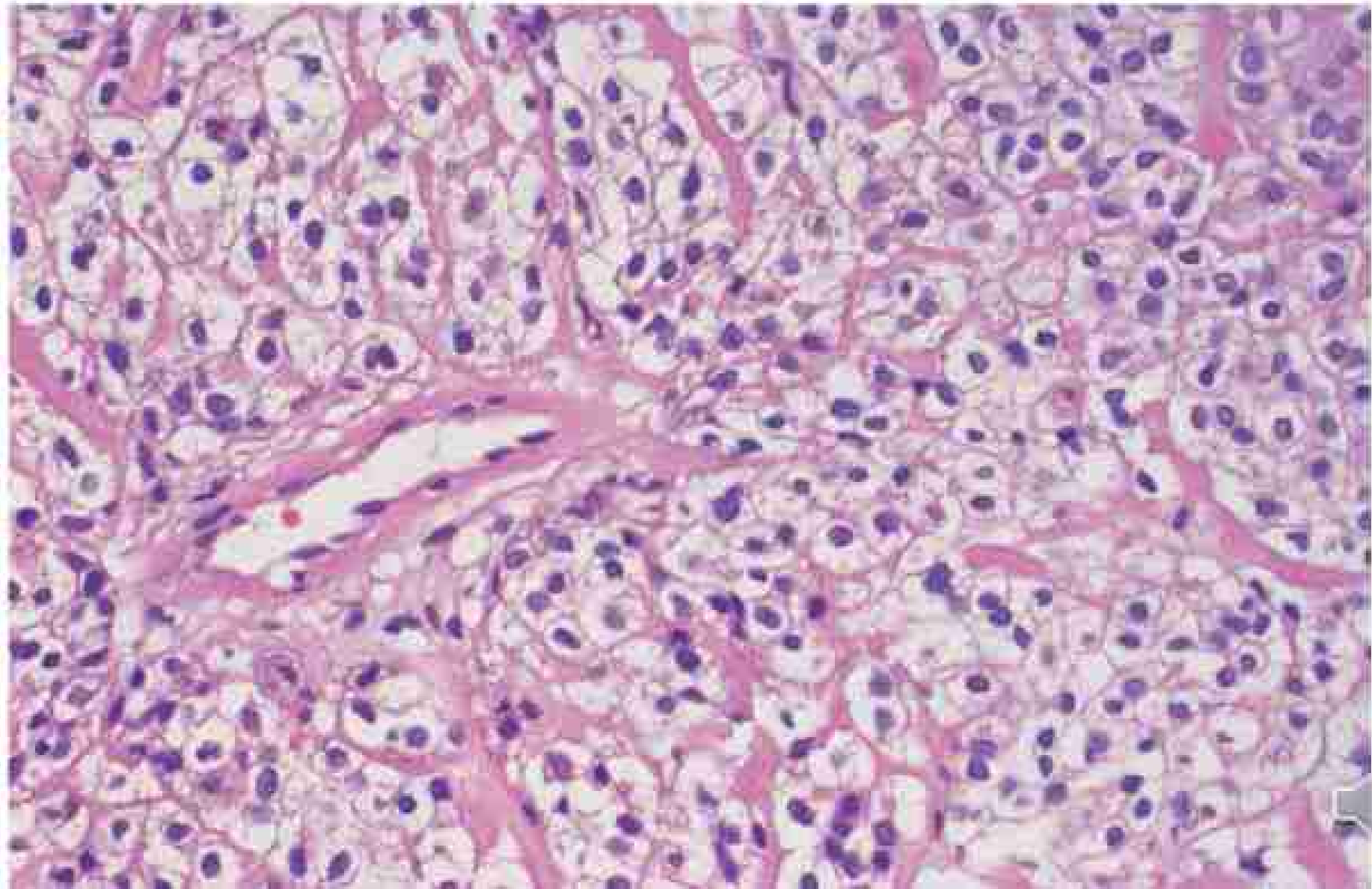
Chordoid meningioma



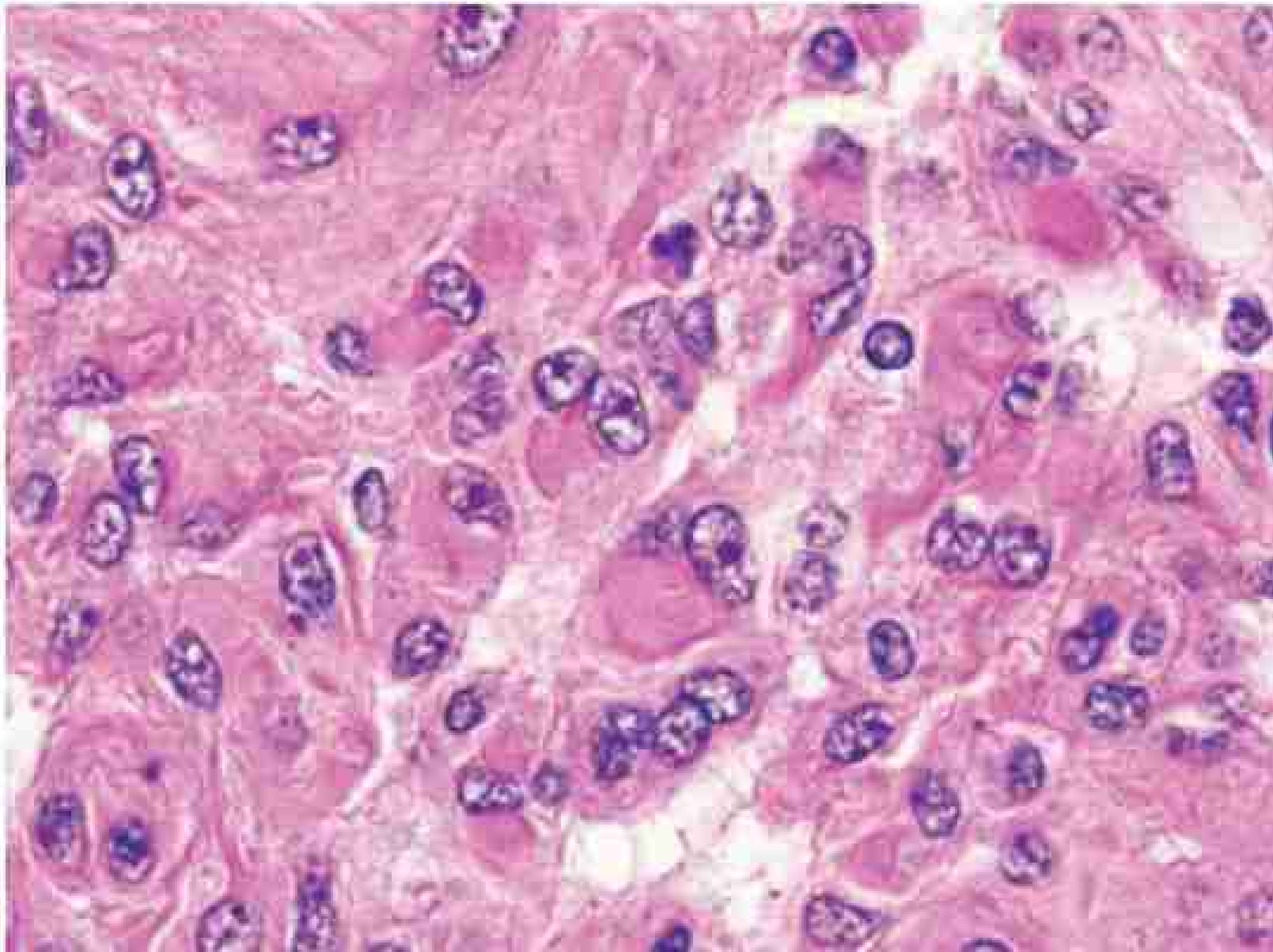
Angiomatous meningioma



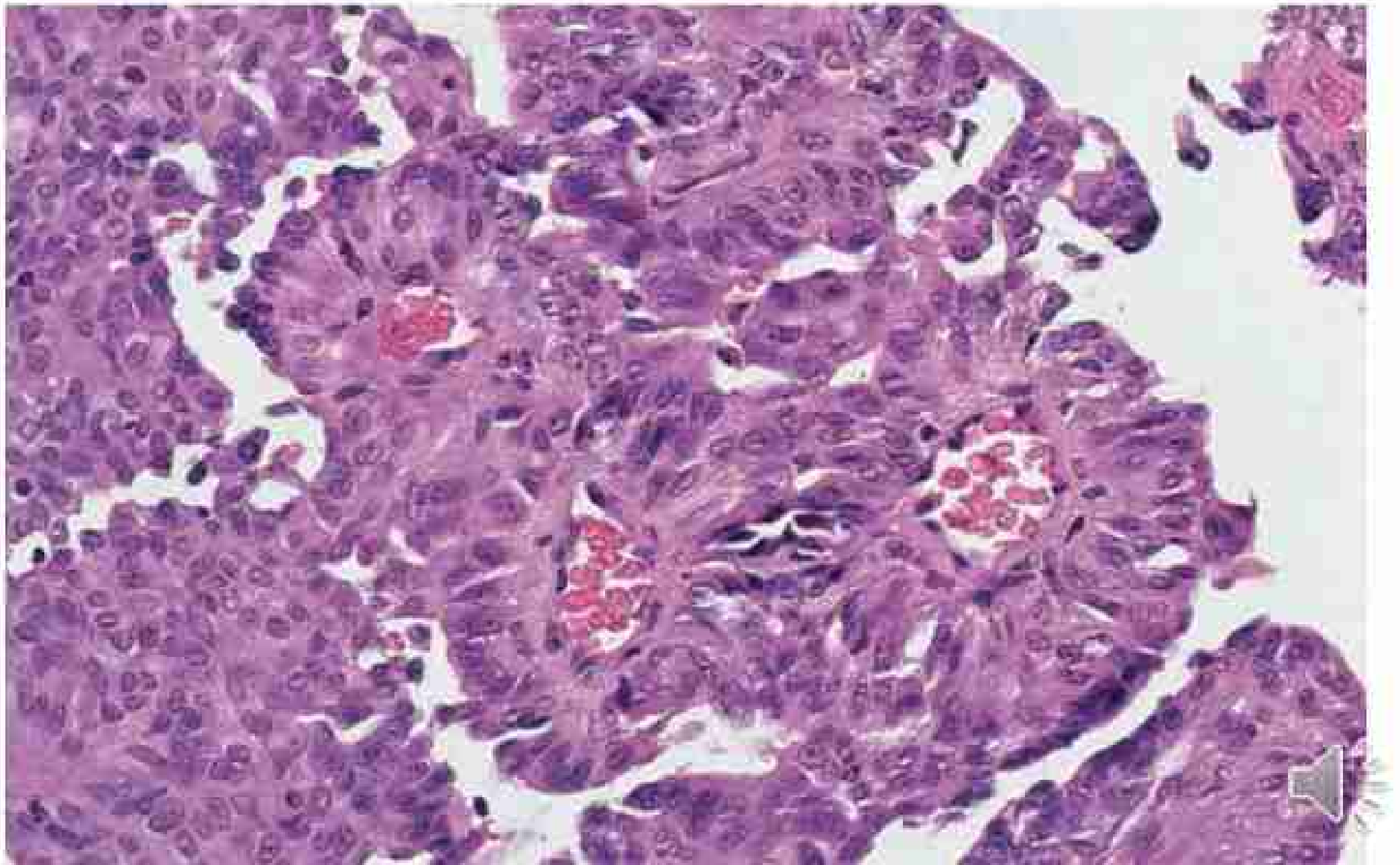
Clear cell meningioma



Rhabdoid meningioma

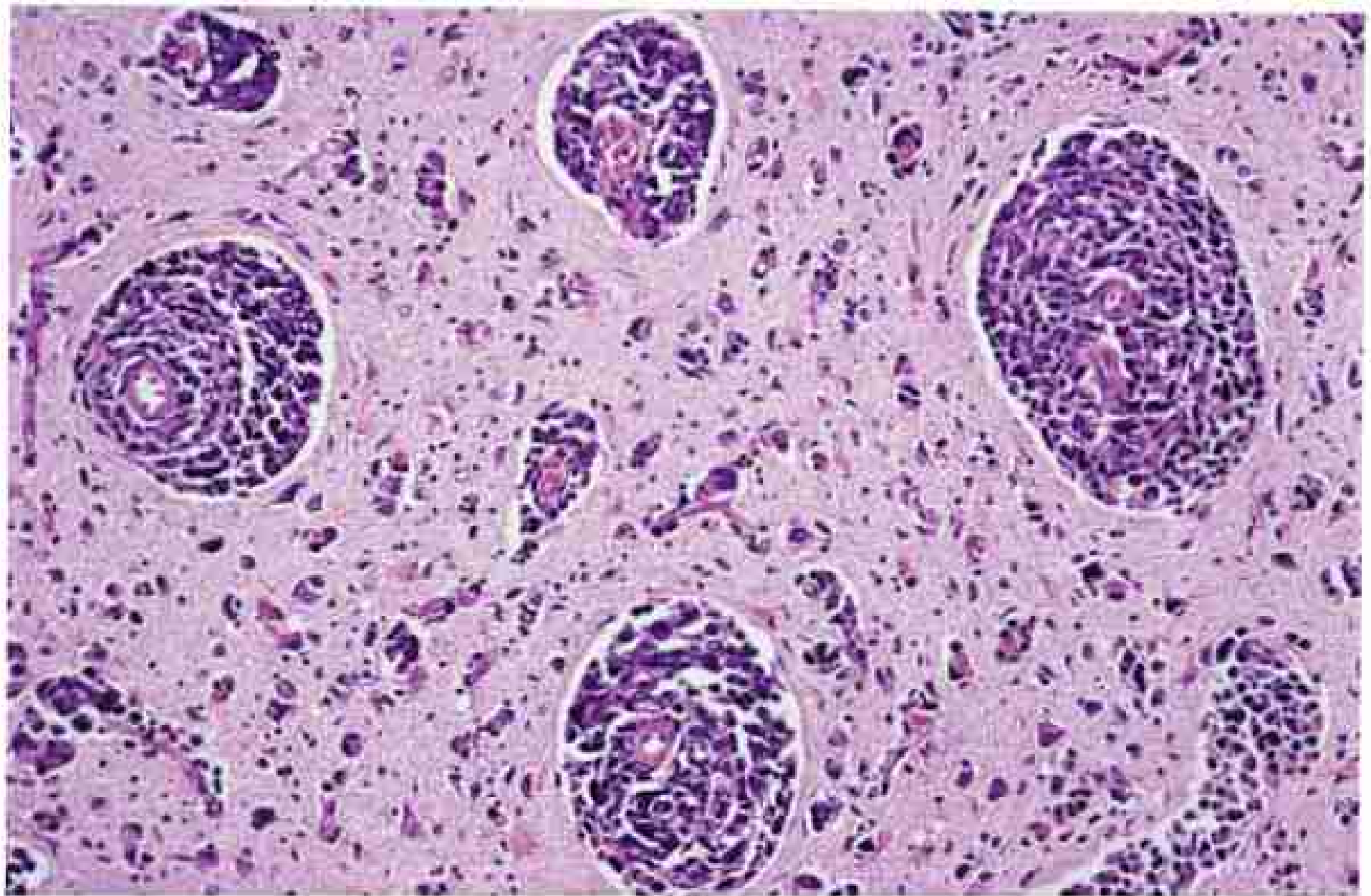


Papillary meningioma



Primary CNS lymphomas

- Association with AIDS
- NHL B cell type
- Poor prognosis



Primary CNS lymphoma - Tumoral infiltration of blood vessel walls and Virchow-Robin spaces



Medulloblastoma

Primitive neuroectodermal tumour

Children and young adults

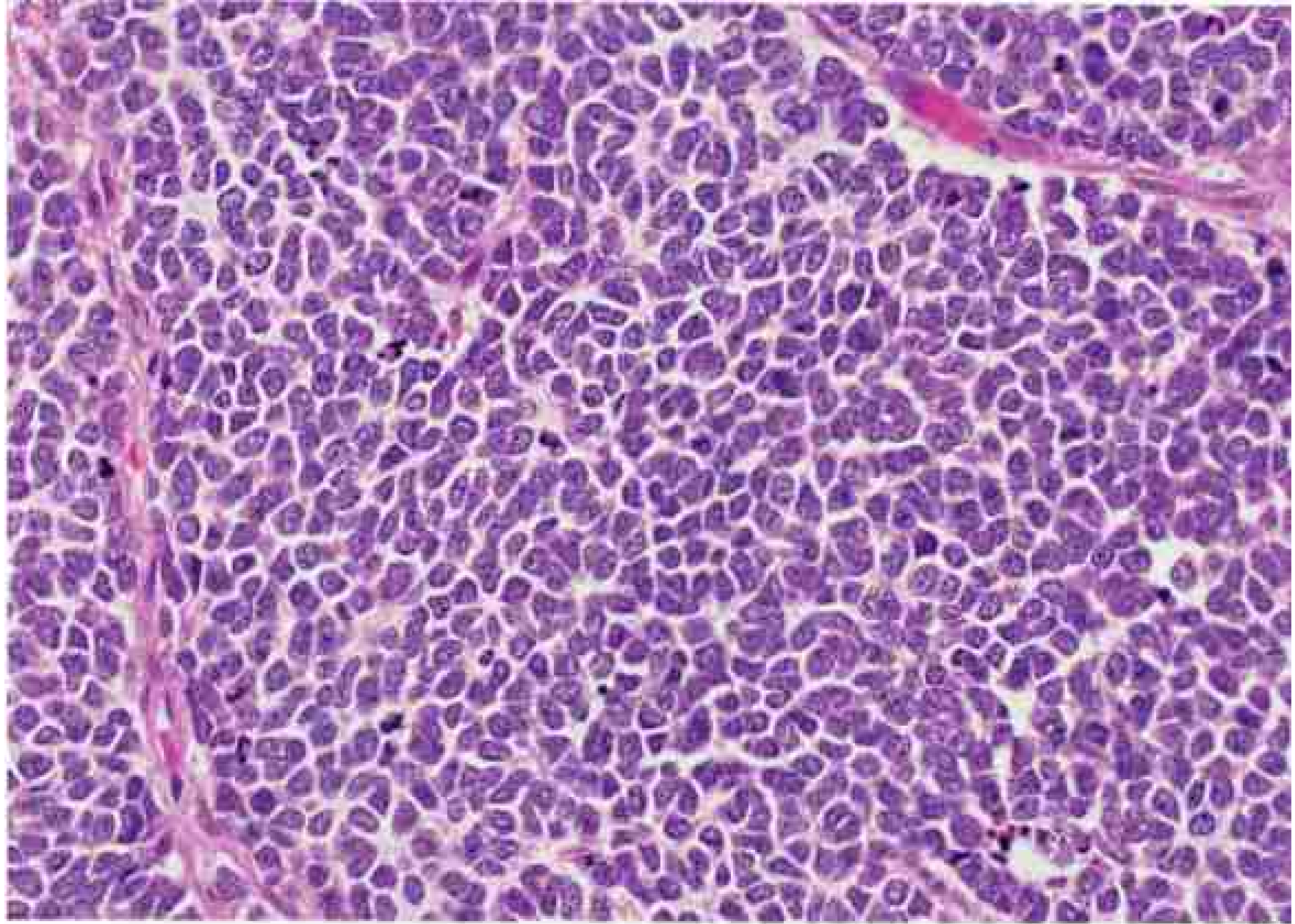
Cerebellum

Highly malignant

Widespread metastasis

Gross: midline of cerebellum

Micro: small round cells, rosettes



Medulloblastoma - Cellular neoplasm

Metastatic Tumours

- Lung
- Breast
- skin(melanoma)
- Kidney
- GIT
- Choriocarcinoma.

Assignment 3

- Discuss meningiomas along with clinical features, gross, microscopy, immunohistochemistry and prognosis.
- Discuss metastatic tumors to the brain