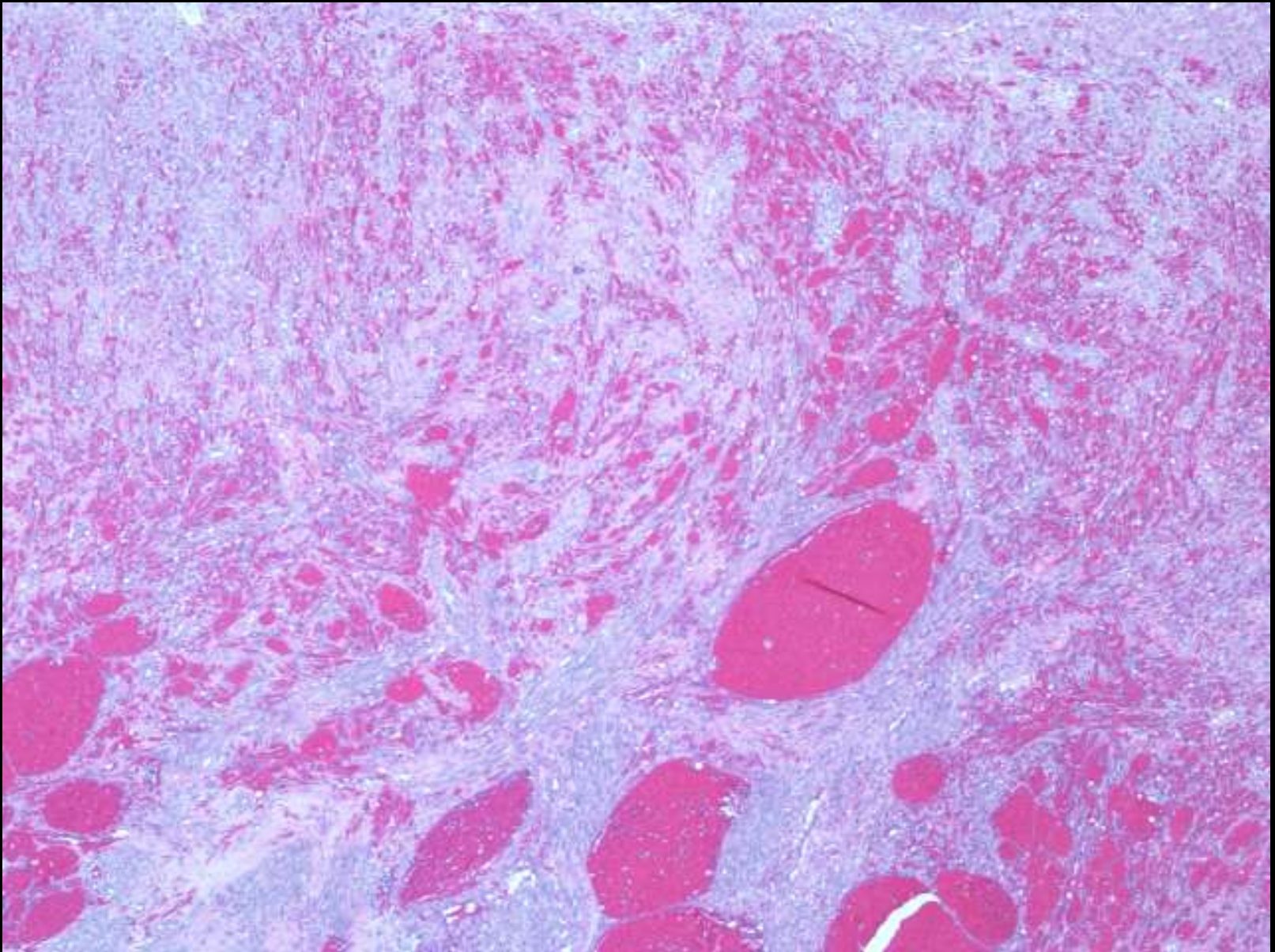


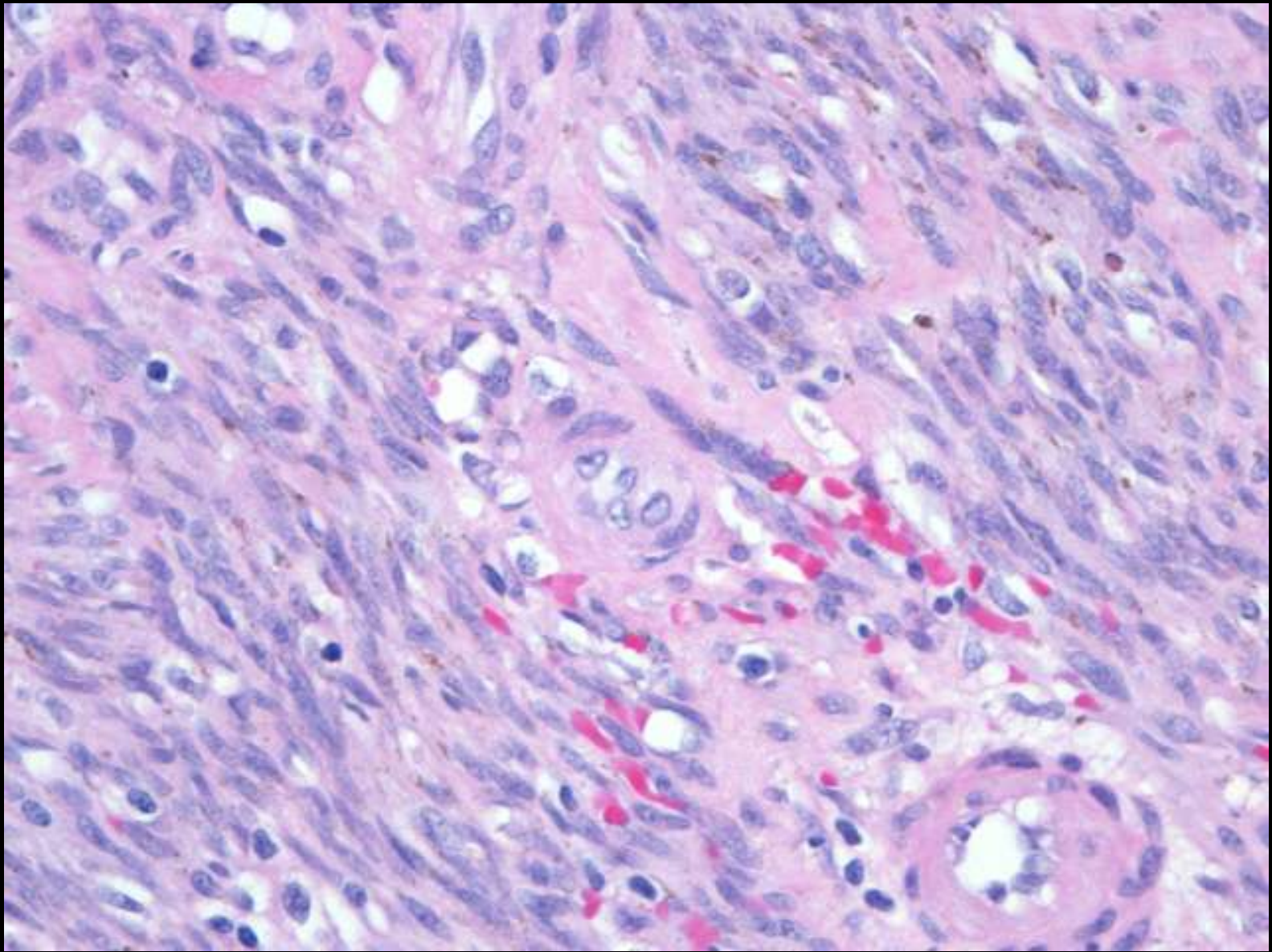
# CASE 1

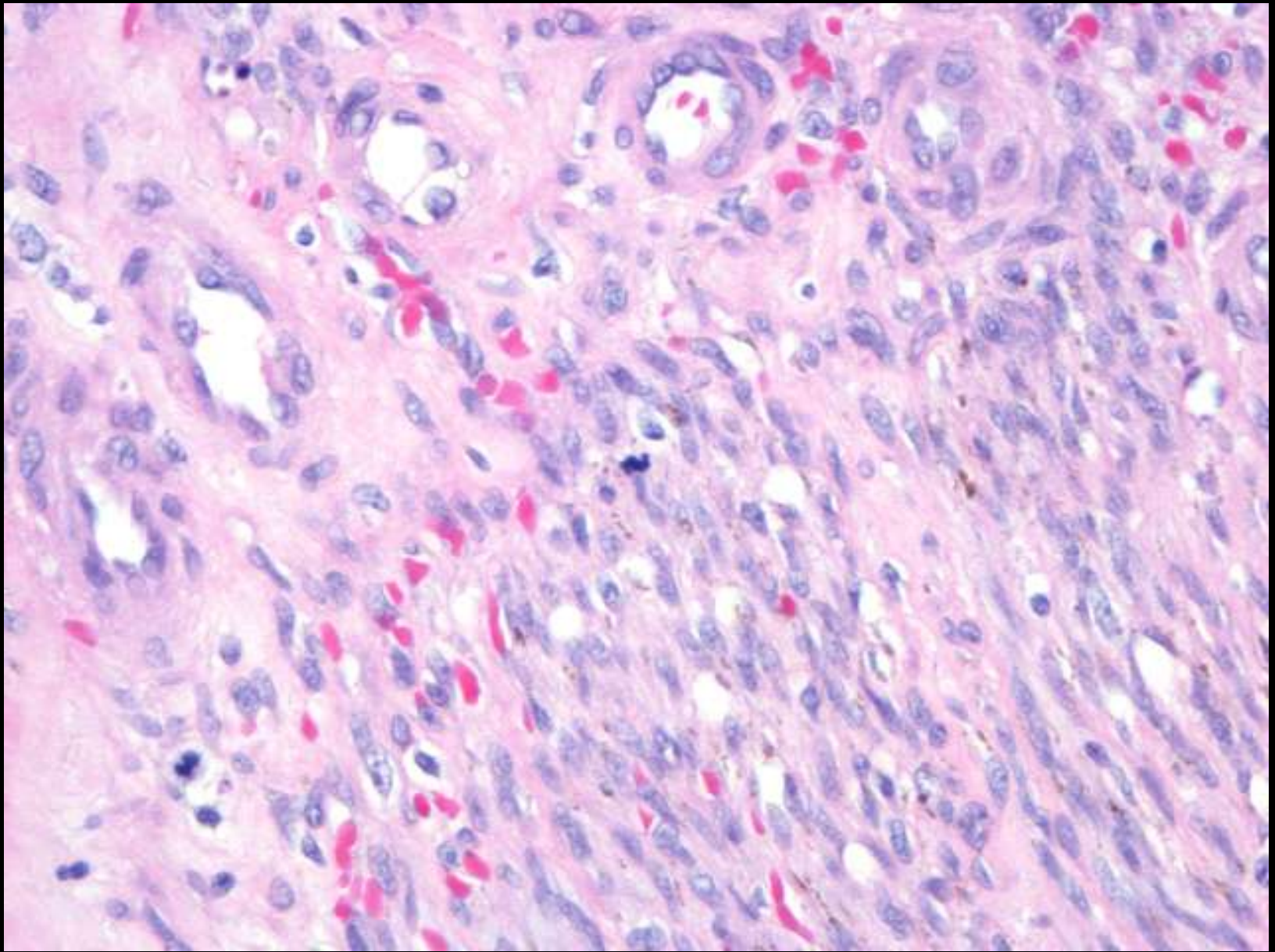
55 year old male with a PET avid  
nodule in the left adrenal gland

# Case 1

- Adrenal gland parenchyma partly replaced by a spindle cell tumour with mild nuclear pleomorphism
- Atypical mitoses present
- Spindle cells surround slit-like vascular spaces
- Prominent red blood cell extravasation and focal haemosiderin deposition



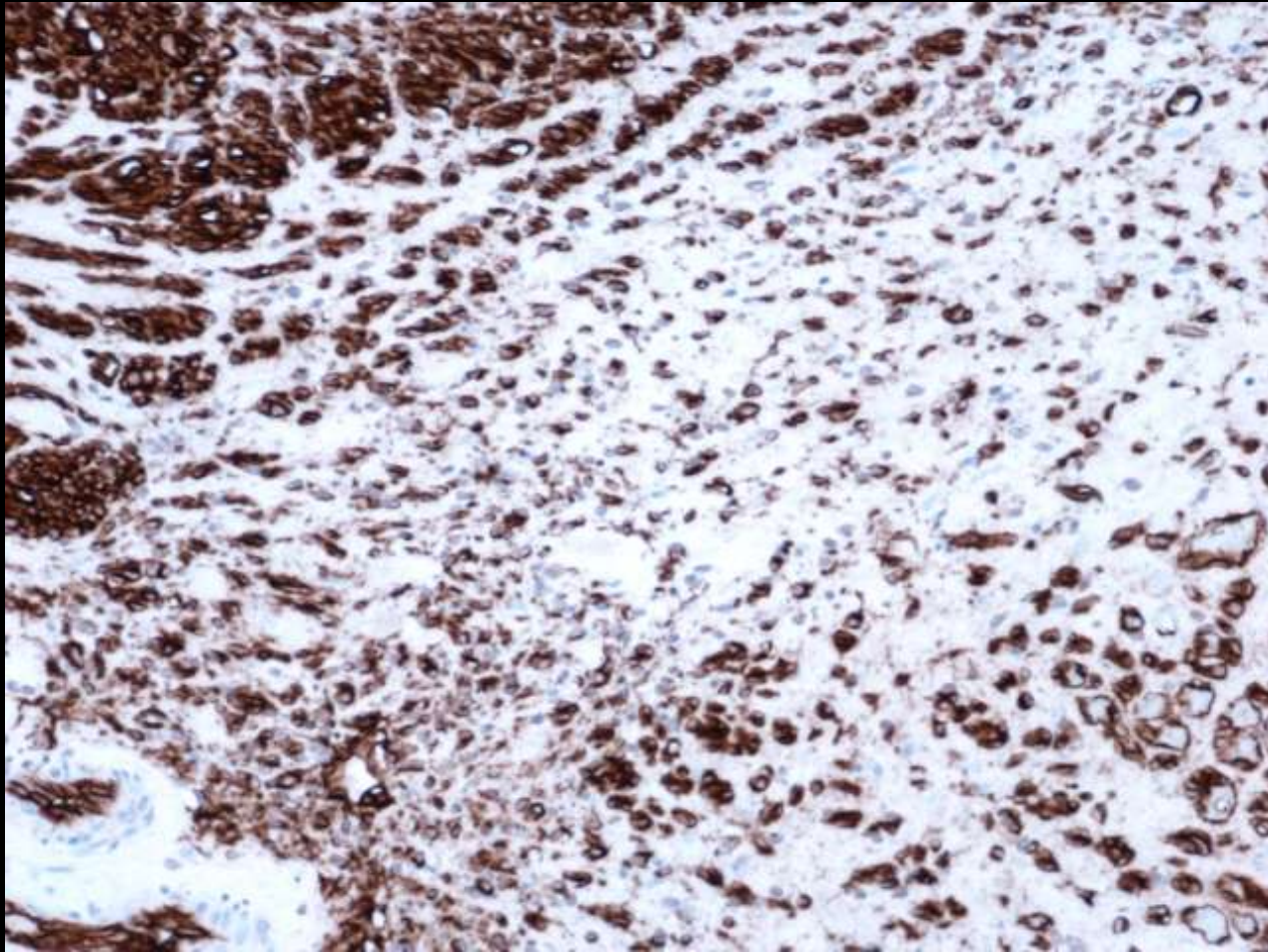




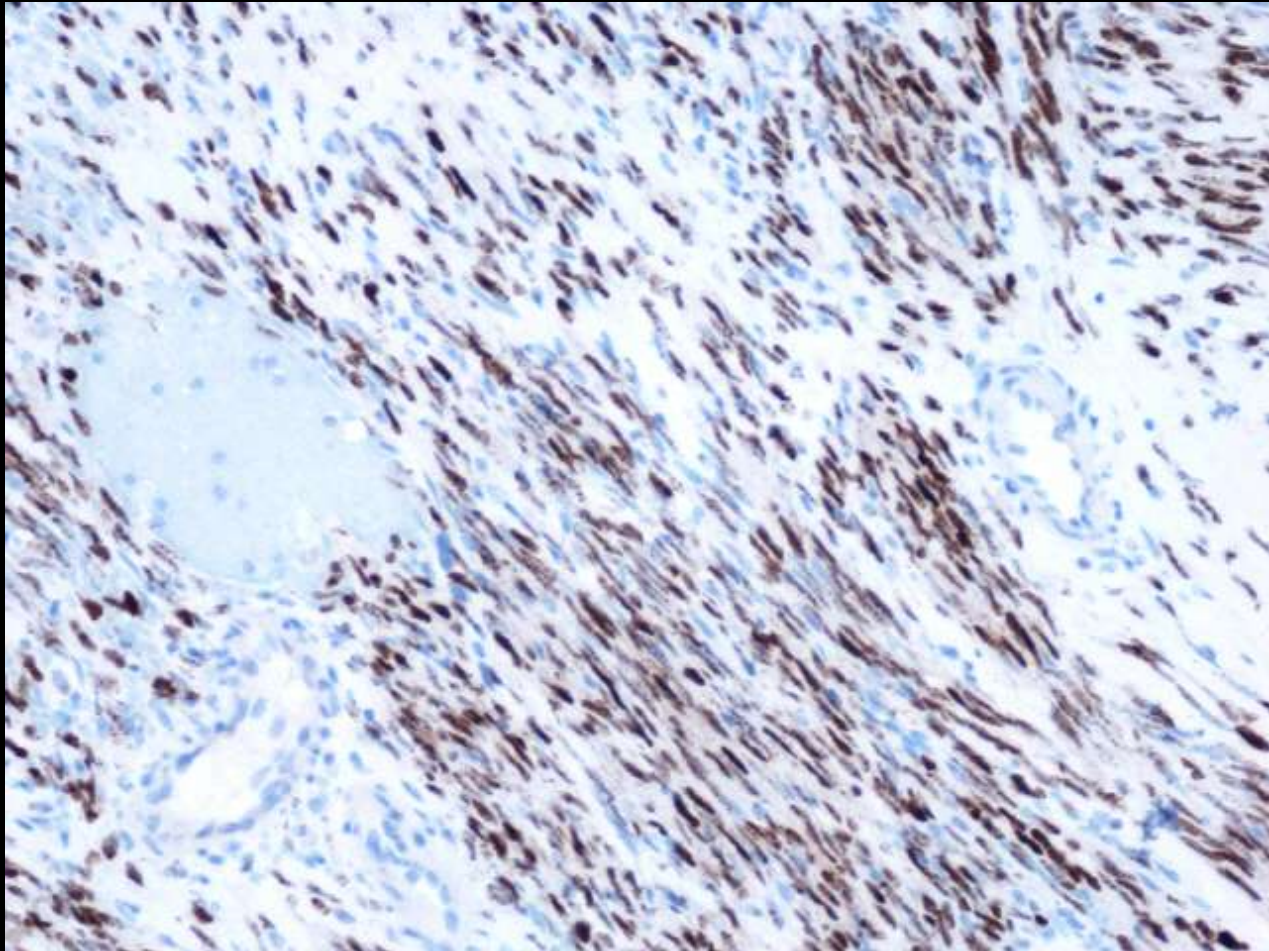
# Answers

- Kaposi's sarcoma (most popular answer)
- Composite pheochromocytoma
- Angiosarcoma
- Schwannoma
- Spindle cell haemangioma
- Angioleiomyoma
- Ganglioneuroma
- Adrenal cortical adenoma
- PEComa

# CD 34



# HHV 8





# Case 1

- Kaposi's sarcoma
- Patient known to be HIV positive with cutaneous and lung involvement
- Good response with highly active retroviral therapy
- Lung lesions currently static on imaging and no recurrence in adrenal bed
- Has had radiotherapy for skin lesions
- Involvement of the adrenal glands by Kaposi's sarcoma is usually a manifestation of a more widely disseminated tumour in patients with acquired immunodeficiency syndrome

# Case 1

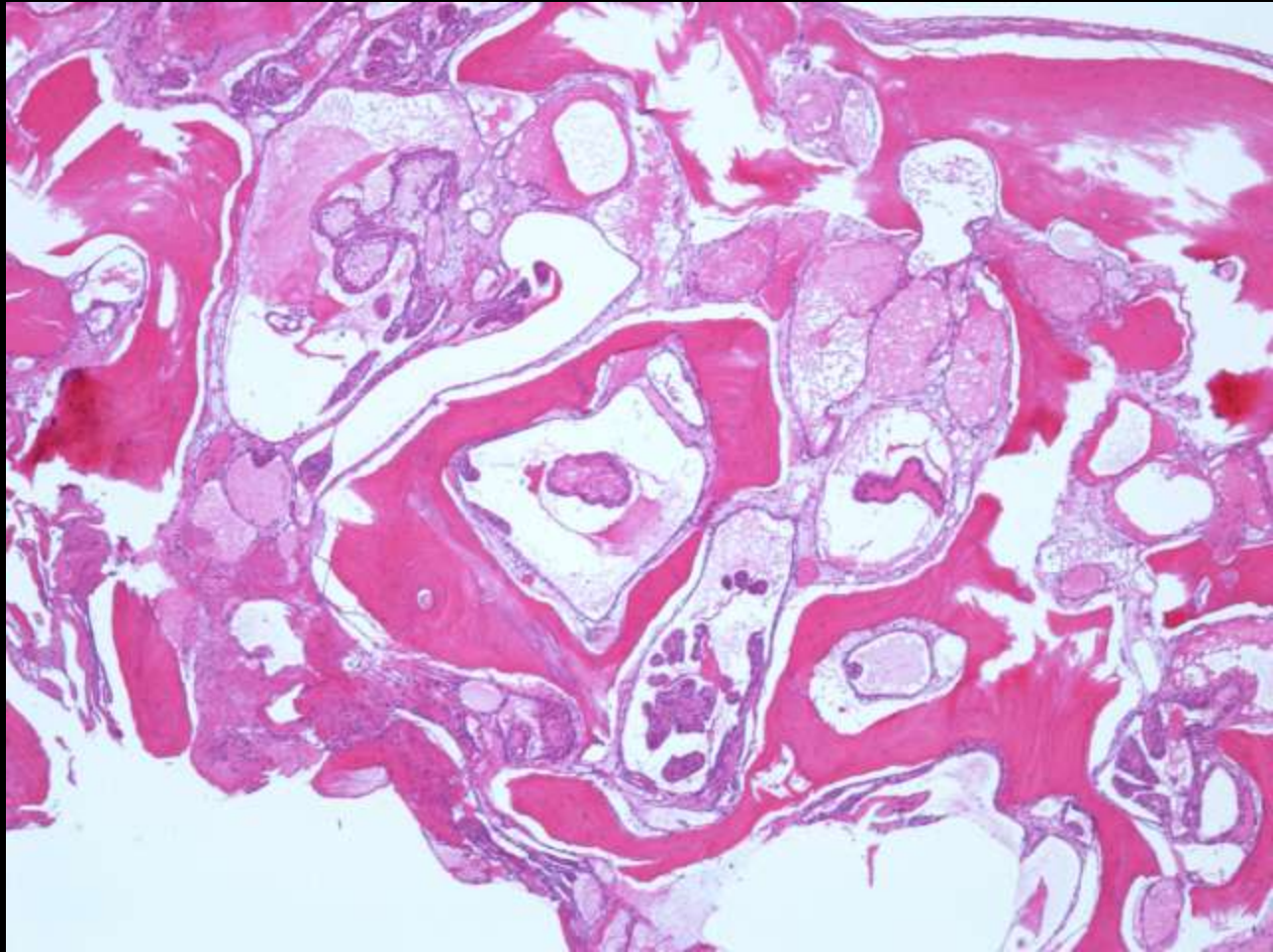
- There are very few detailed reports of adrenal KS published
- Adrenal KS has been documented in post mortem studies in 19% of examined patients with classic (sporadic) KS, 18% with African (endemic) KS and 17% with AIDS-related (epidemic) KS.
- The adrenal cortex appears to be involved far more than the medulla

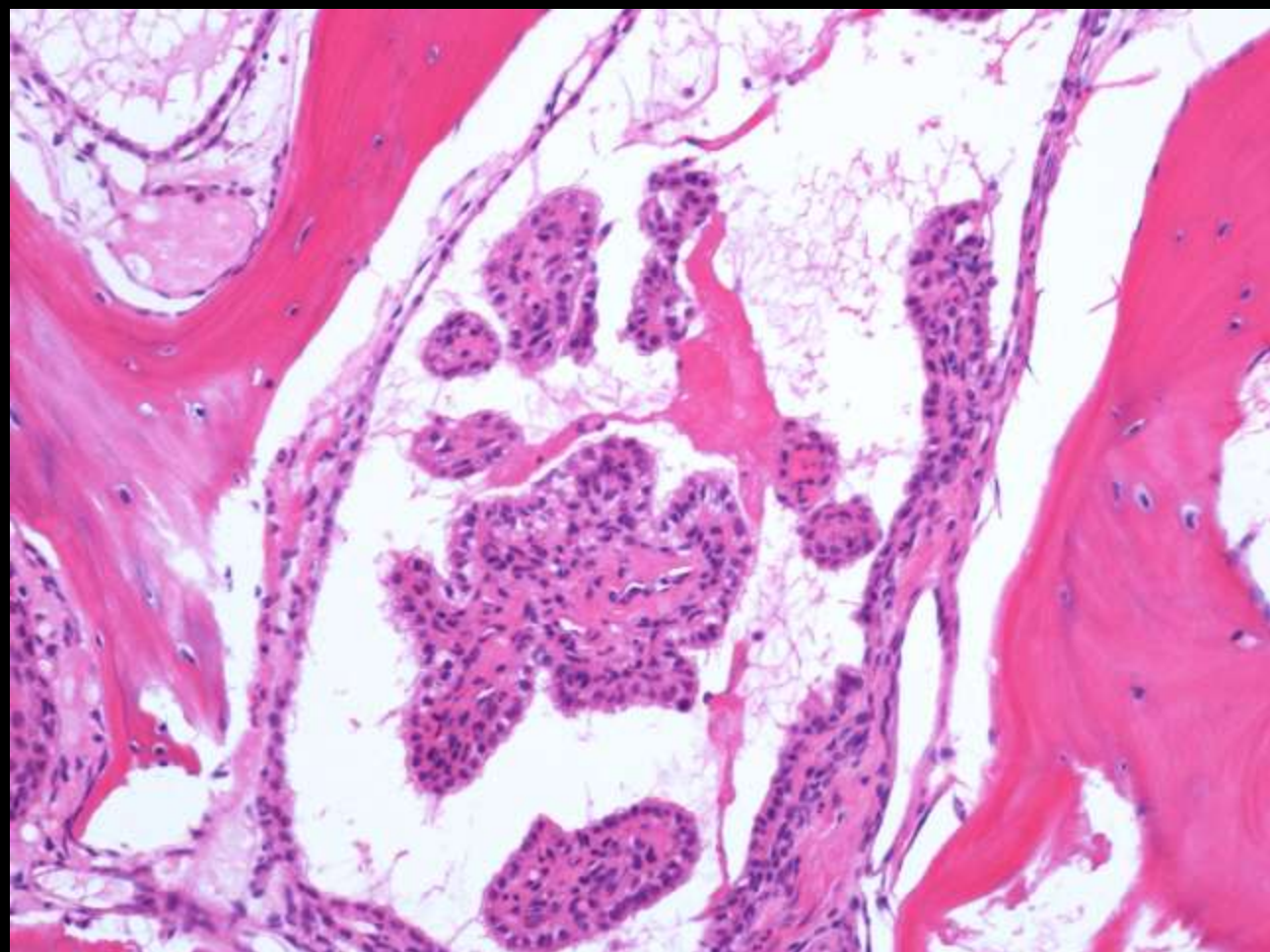
# CASE 2

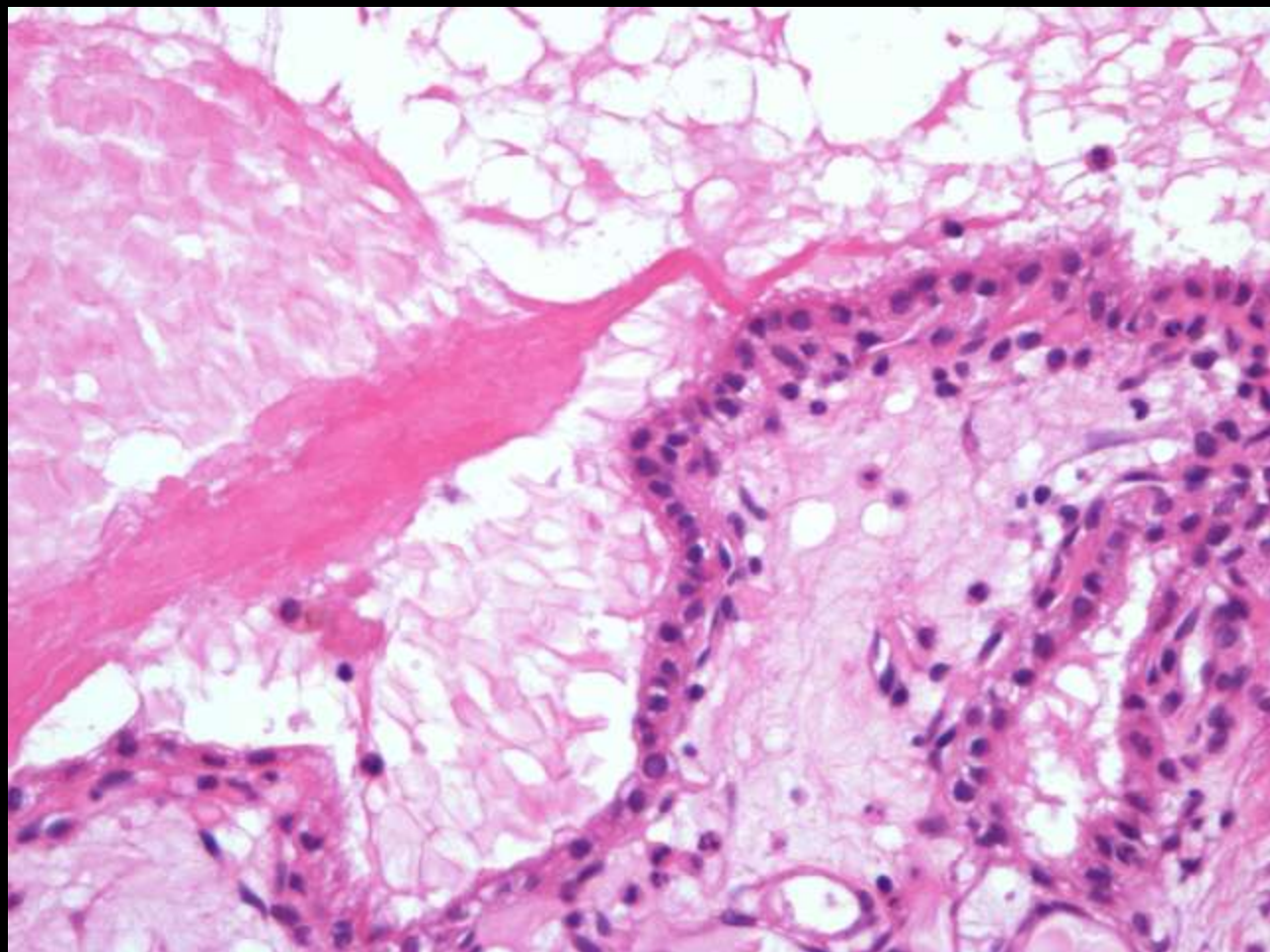
62 year old female- hearing loss and tinnitus. CT showed destructive lesion involving skull base

# Case 2

- Architecture is papillary and cystic
- Papillae lined by a single layer of epithelial cells with bland nuclei
- Small glands and follicular structures containing eosinophilic secretions resembling thyroid tissue may be seen
- Mucin stains negative
- Mitoses and necrosis not seen







# Answers

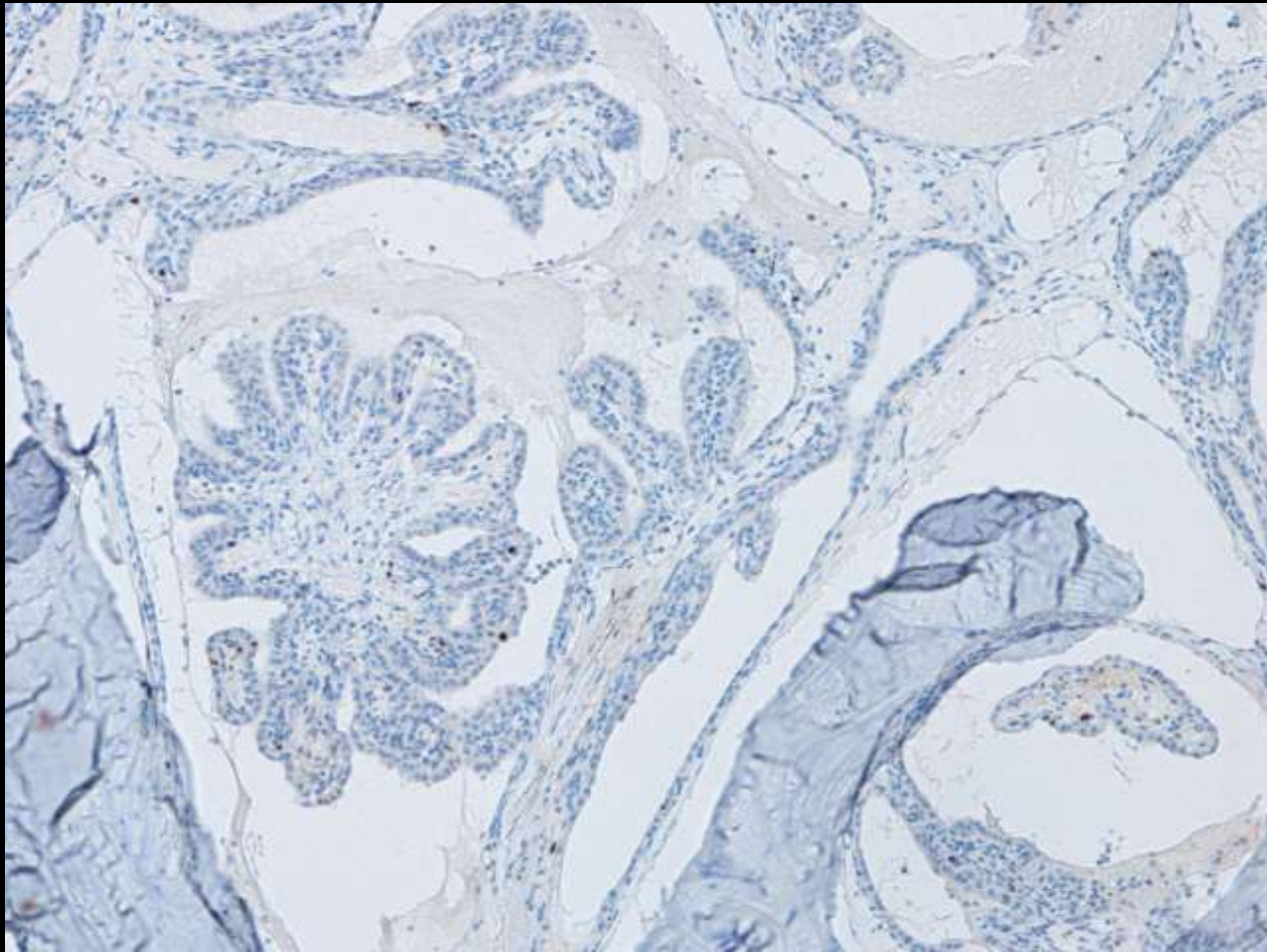
- Endolymphatic sac tumour
- Metastatic tumour- suggestions included thyroid, prostate or renal primaries
- Papillary ependymoma
- PLGA
- Papillary meningioma
- Papillary variant of craniopharyngioma
- Choroid plexus tumour
- Sinonasal adenocarcinoma



# ICC

- CK 7 +, CK20-
- TTF1 -, thyroglobulin-
- CD10-, PAX 8 –
- PSA –
- Ki67 very low

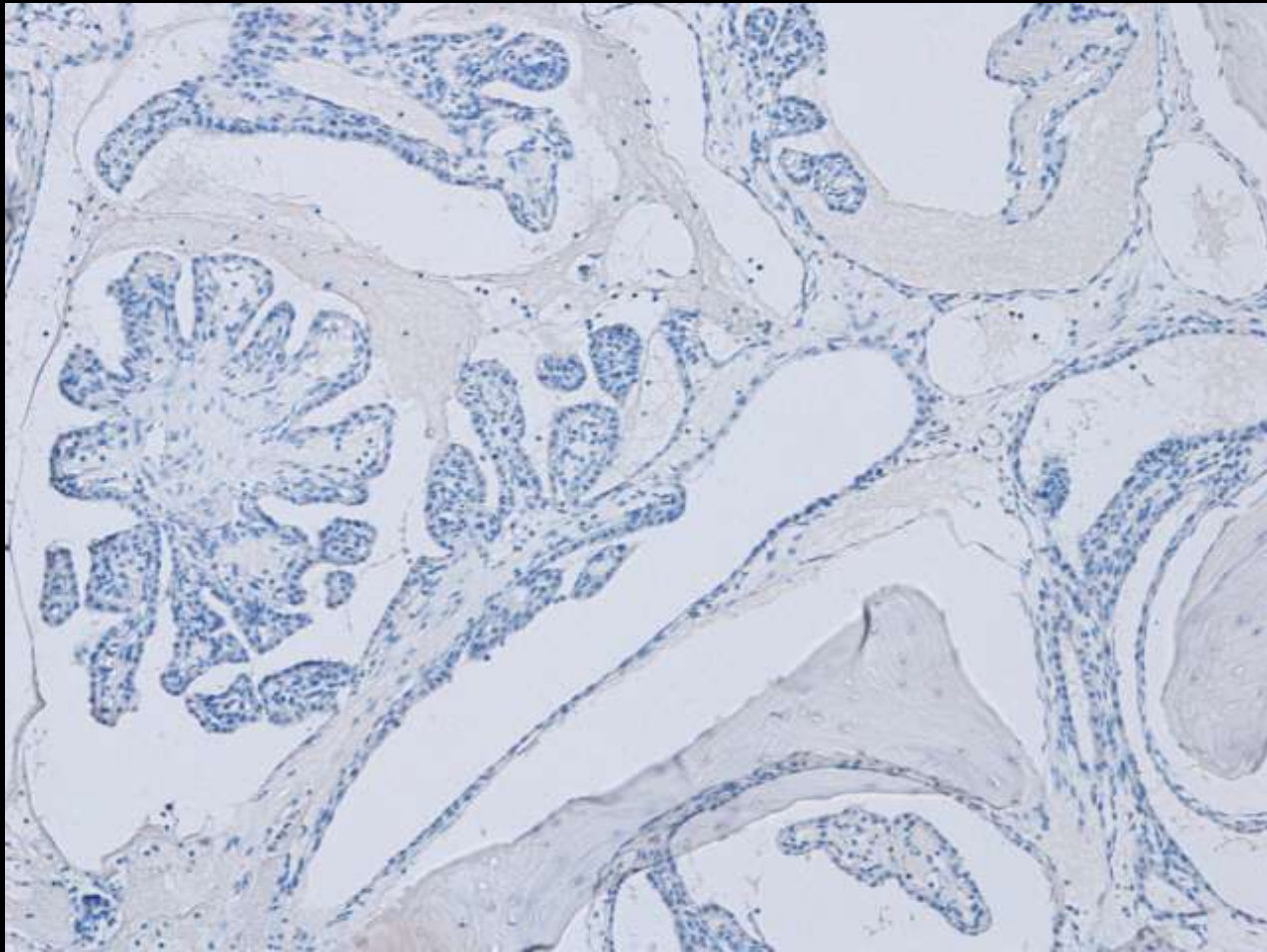
# KI67



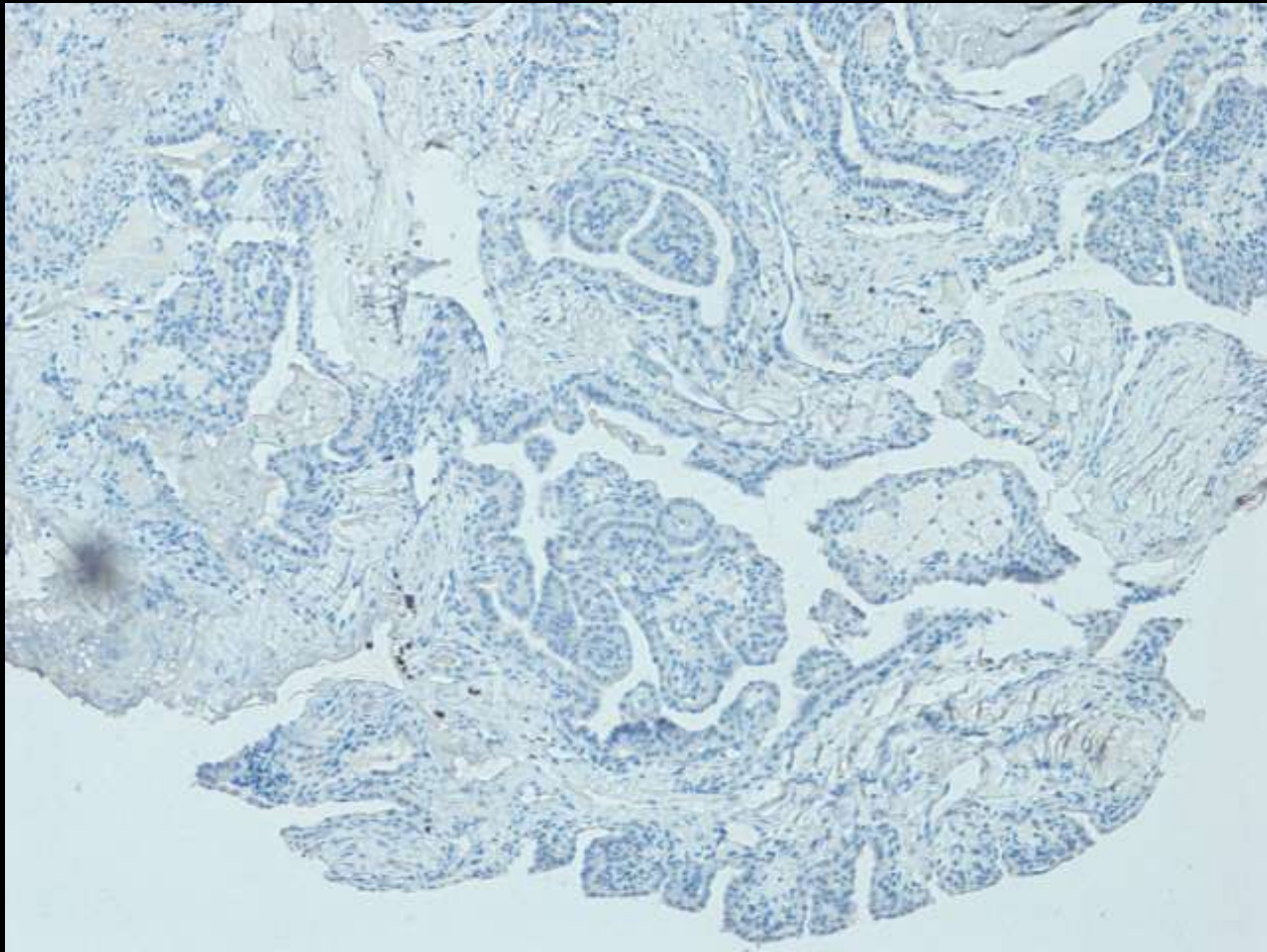
CK7



# RCC



# TTF1

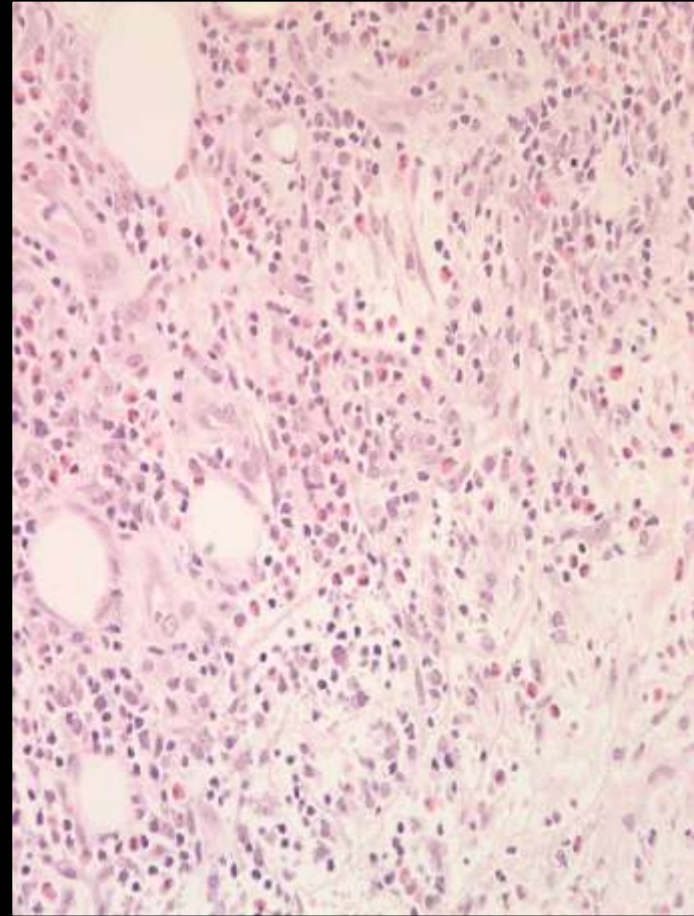
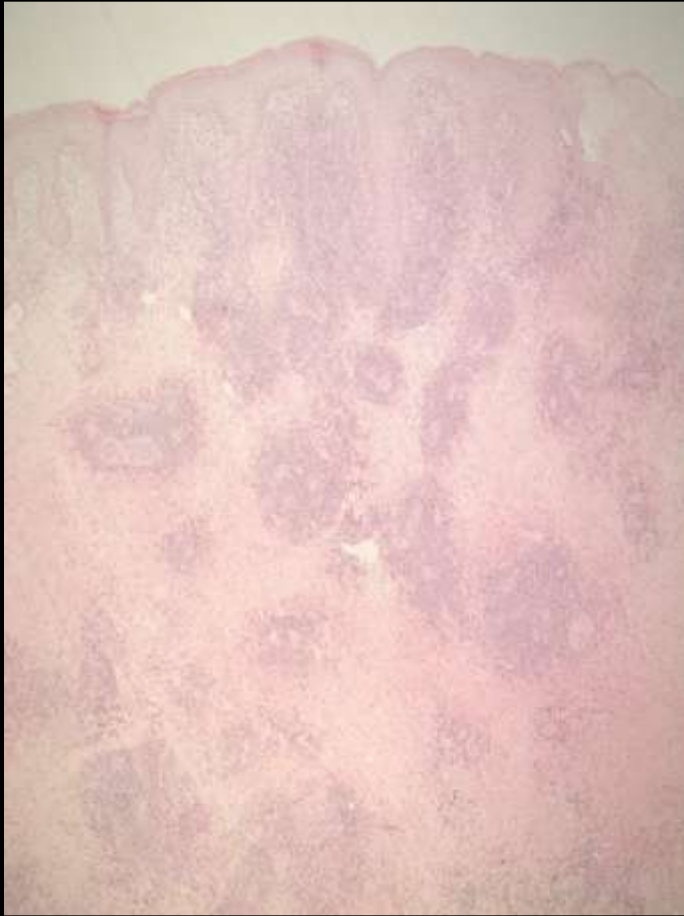


# Answer

- Clinically, radiologically and histologically in keeping with endolymphatic sac tumour (low grade papillary adenocarcinoma of endolymphatic sac origin)
- 1/3 of cases associated with VHL syndrome
- Treated by complete surgical excision +/- radiotherapy
- Distant mets rare but have been described

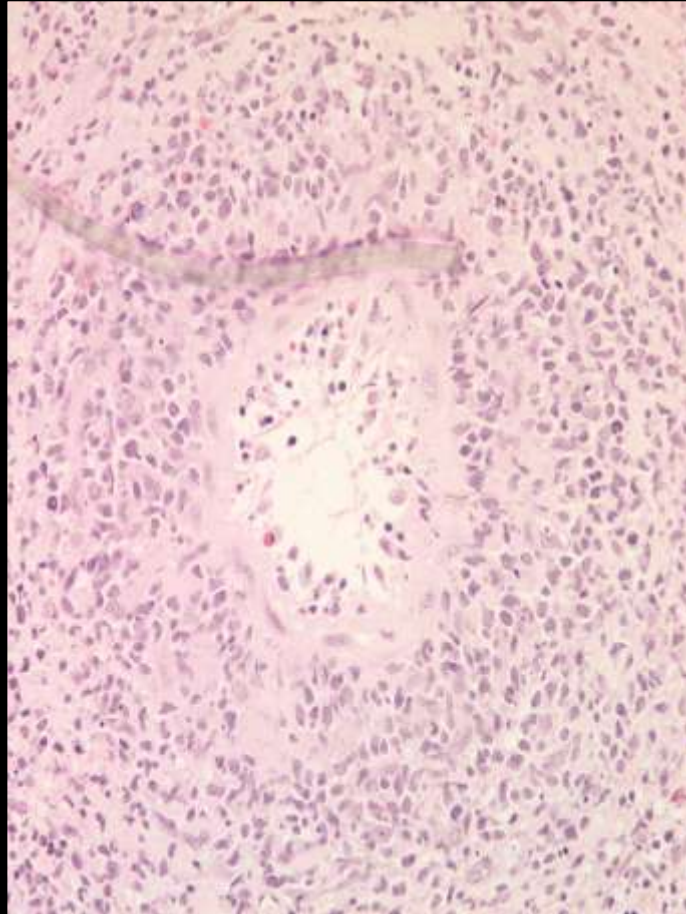
# CASE E3

# Case E3 Histology

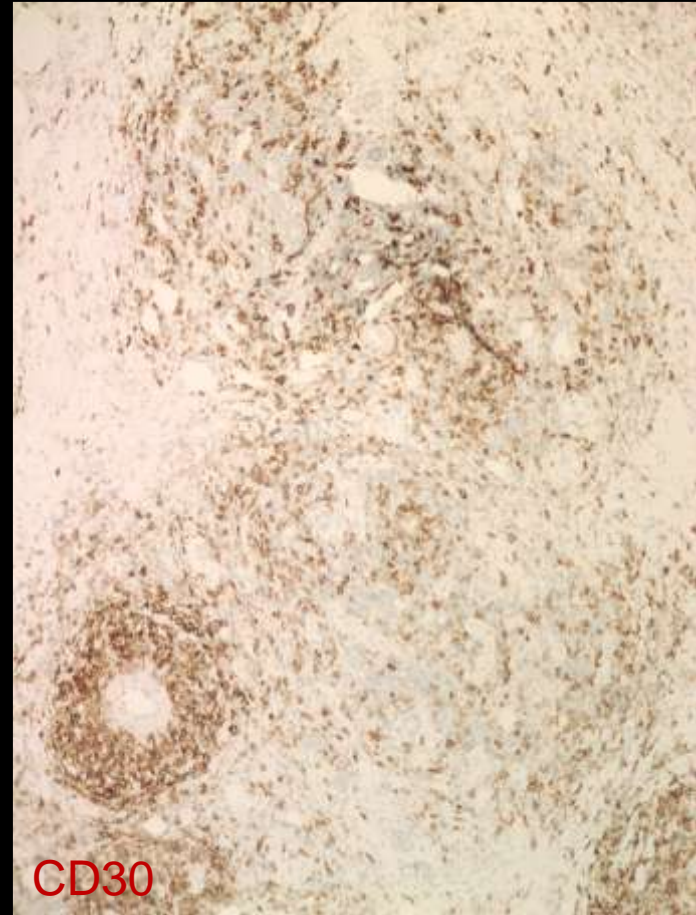
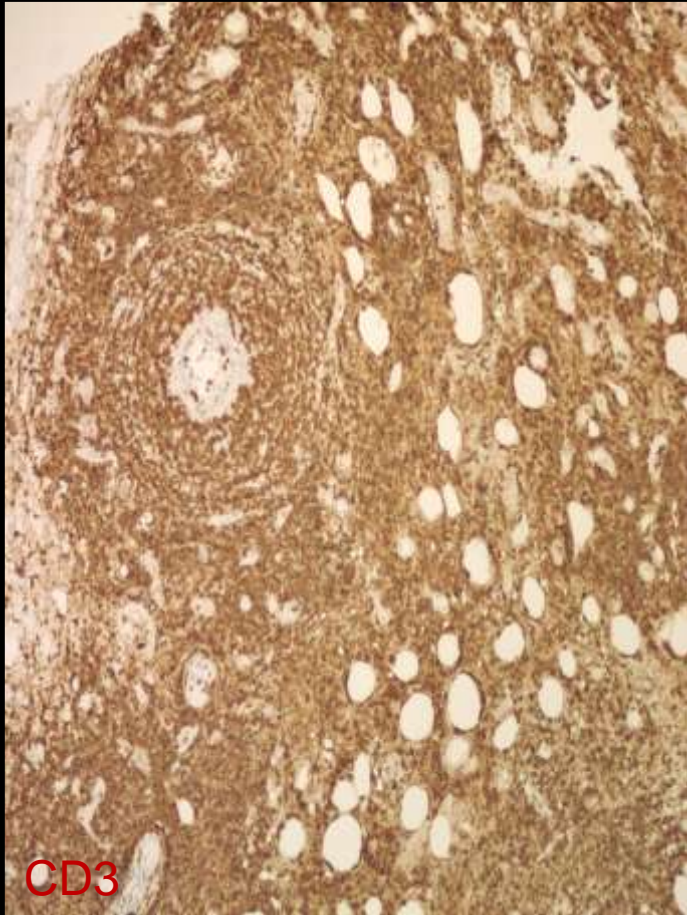




# Case E3 Histology



# Case E3 IHC



# Immunophenotype

- T cell dominant infiltrate
  - CD2+, CD3+, CD5+
  - CD7 down-regulated
  - CD30+
  - CD4+ > CD8+
  - Cytotoxic markers = CD8+
  - CD10 -
  - Alk-1-
  - EBV ISH –
- Some background B



# Principal Diagnoses

- **Necrotising eosinophilic vasculitis / Churg Strauss 21**
- **Angiolymphoid hyperplasia with eosinophilia 18**
- **Lymphomatoid papulosis 13**
  - 1 specified Type E
  - 1 further response suggested CD30+ LPD 1
- **Angocentric T-NHL / AITL 4**

# Other Suggested Diagnoses

- Weil's Disease  
4
- Insect bite  
3
- LCH  
5
- Erythema nodosum  
1
- Erythema elevatum diutinum  
1

**LYMPHOMATOID PAPULOSIS,  
TYPE E**

# Lymphomatoid papulosis

- Primary cutaneous CD30+ disorder
- Clinically characterised by relapsing course of spontaneously resolving papulonodular lesions that may ulcerate
- A spectrum of histological features
- Classification into variant forms A to F
- Type A is most common
- Other forms rarer – cases with mixed features may be encountered
- To a greater or lesser extent DDx from T NHL may be difficult

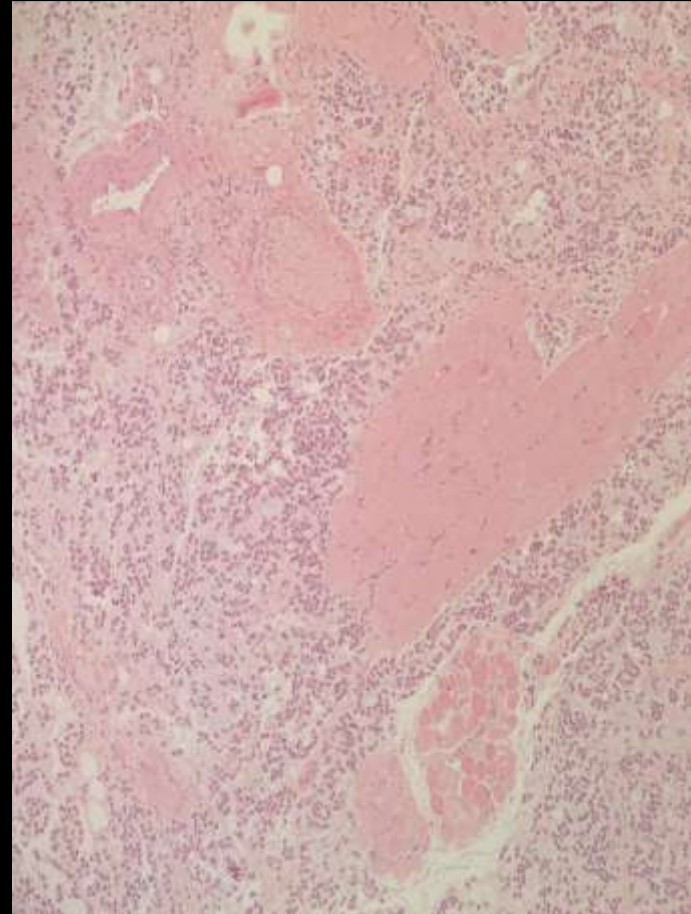
# Angio-invasive LyP (Type E)

- Described by Kempf et al (Am J Surg Path, 2013: 37(1); 1-13)
- Lesions grow rapidly and ulcerate.
- Angio-invasive features that with cytological atypia can simulate aggressive T cell lymphomas.
- Atypical cells are of T cell lineage - CD30+ and often CD8+
- Spontaneous regression – complete remission in 9/16 cases.

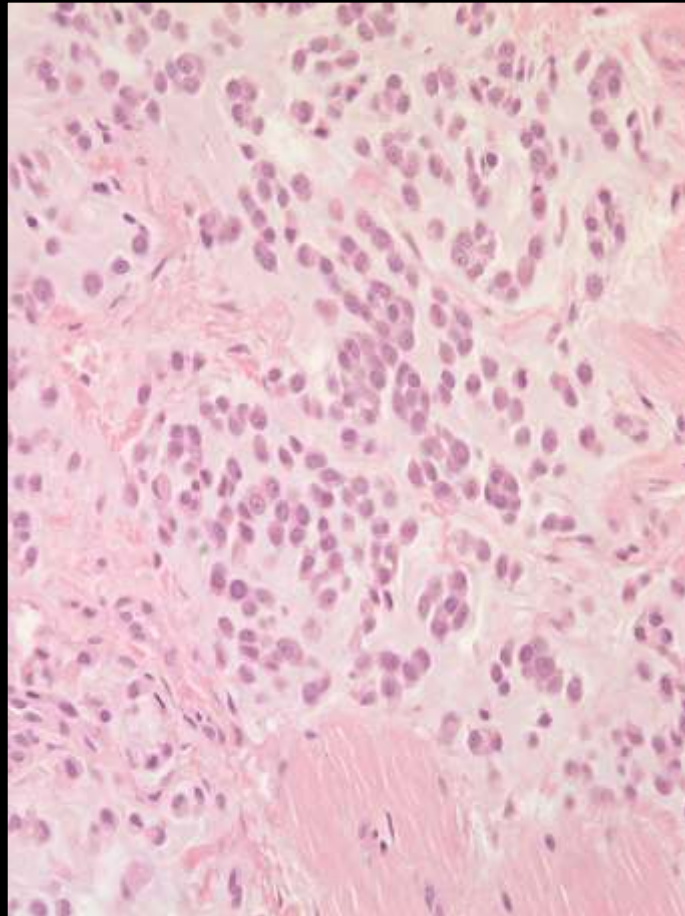


# CASE E4

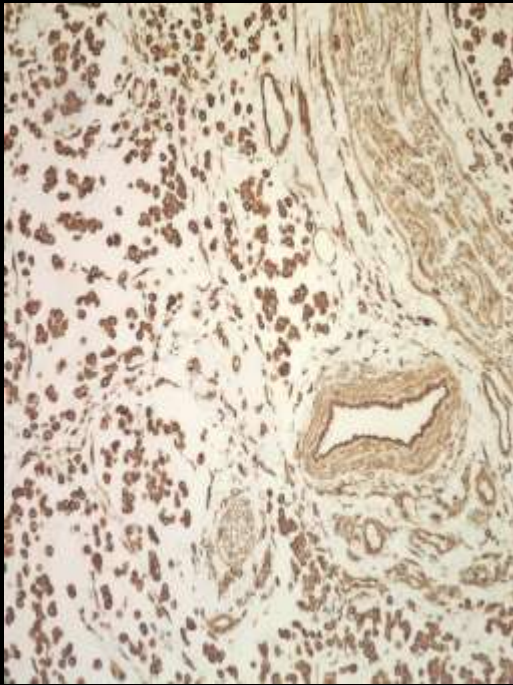
# Case E4 Histology



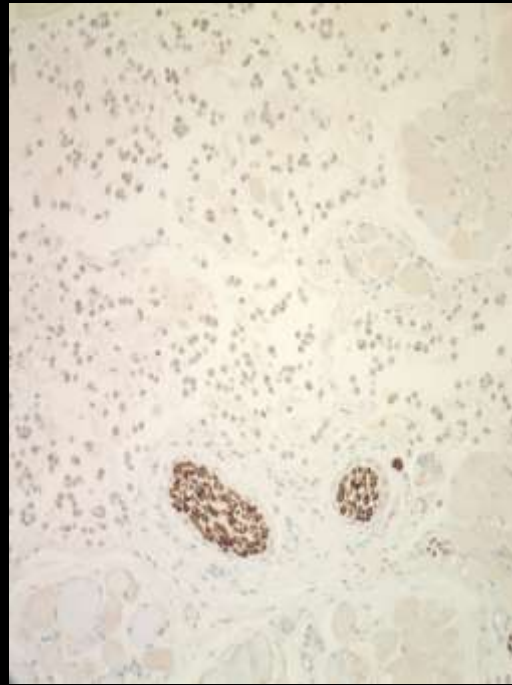
# Case E4 Histology



# Case E4 Histology



Vimentin

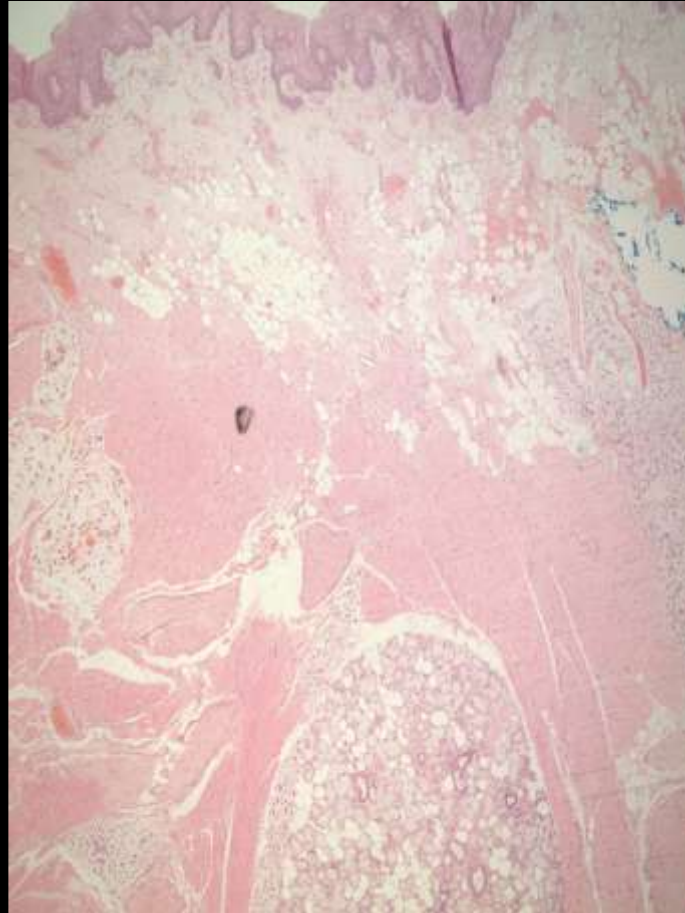


S100



CK

# Resection specimen



# Principal Diagnoses

- **Myxoid chondrosarcoma**  
19
  - Myxoid sarcoma  
3
  - Sarcoma  
4
- **Metastatic mucinous adenocarcinoma**  
14
- **Ectomesenchymal chondromyxoid tumour** 10

# Other Suggested Diagnoses

- Myeloid sarcoma  
3
- Carcinoma ex PSA  
1
- Myoepithelial carcinoma  
6
- Mucoepidermoid carcinoma  
1
- Clear cell carcinoma  
1
- Malignant lesion  
2
- PSA  
5
- Monomorphic adenoma / myoepithelioma  
2

# **METASTATIC MYXOID CHONDROSARCOMA**



# Metastatic myxoid chondrosarcoma

- Differential diagnosis of myxoid chondrosarcoma
- In this case
  - Pulmonary lesions on radiology – new and rapid development
  - Comparison with the original resection specimen
    - Specialist review
  - (Genetic abnormalities)
- Ectomesenchymal chondromyxoid tumour