

South Bay Pathology Society

April 2025 Web cases

25-0401

Aaron Wilk, Oscar Silva; Stanford

66 Y male with history of hyperlipidemia presents with 2 weeks of fevers, headaches, nausea/vomiting, found to be pancytopenic and have acute liver injury, concern for hemophagocytic lymphohistiocytosis

WBC: 2.0

Hgb: 12.2

Plt: 81

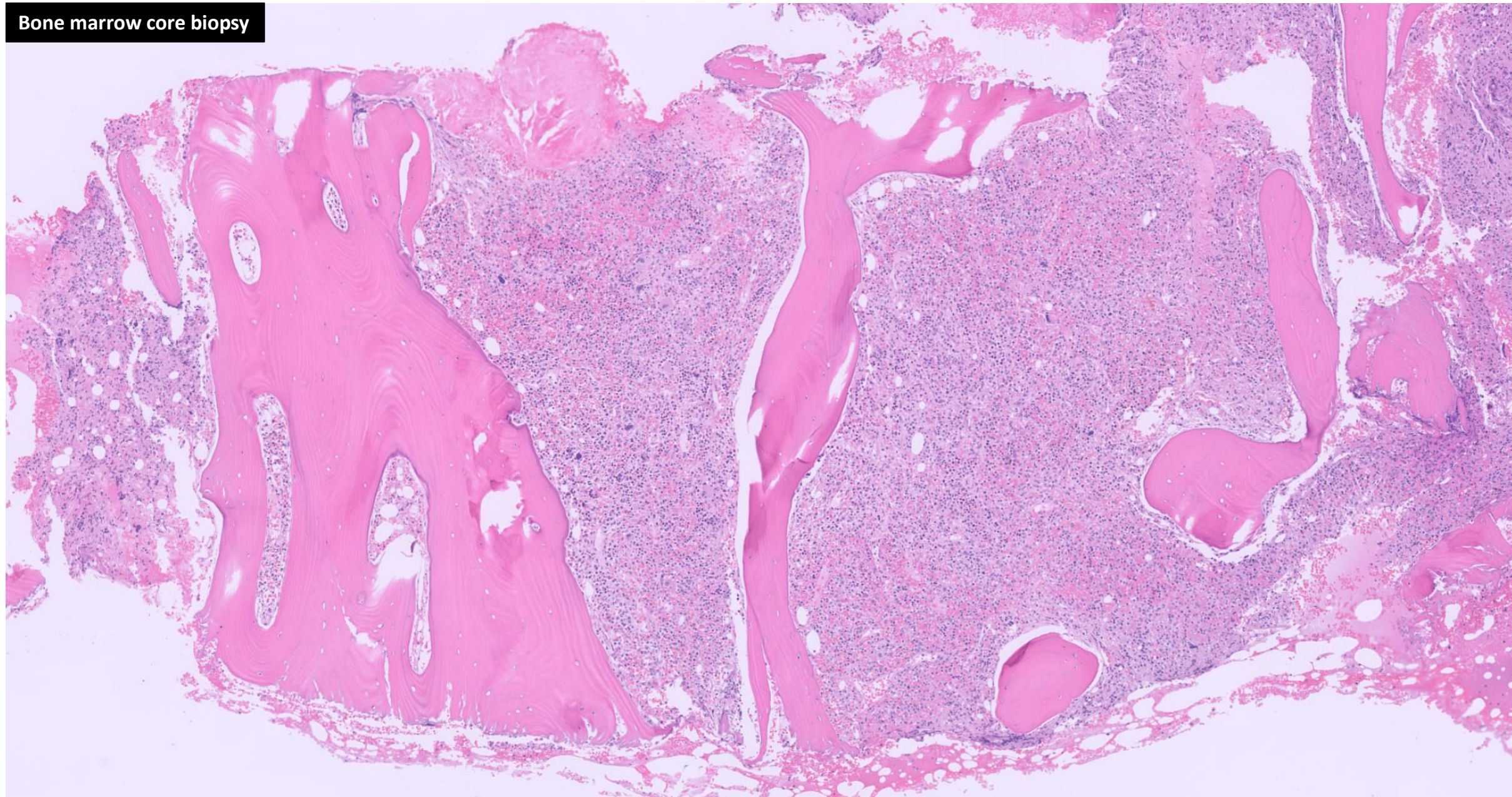
AST: 581

ALT: 1391

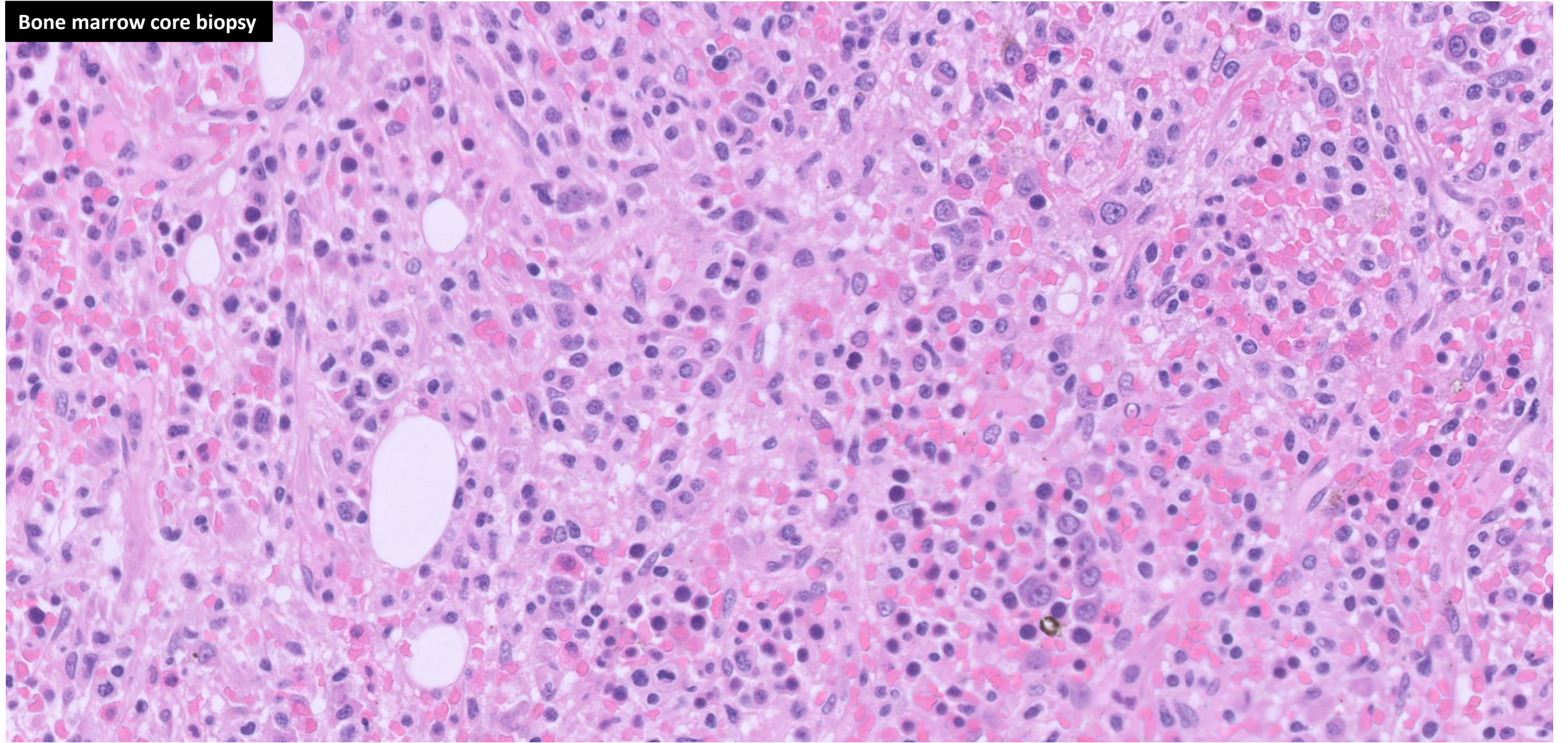
Ferritin: 17419

sCD25: 8612 [175-858]

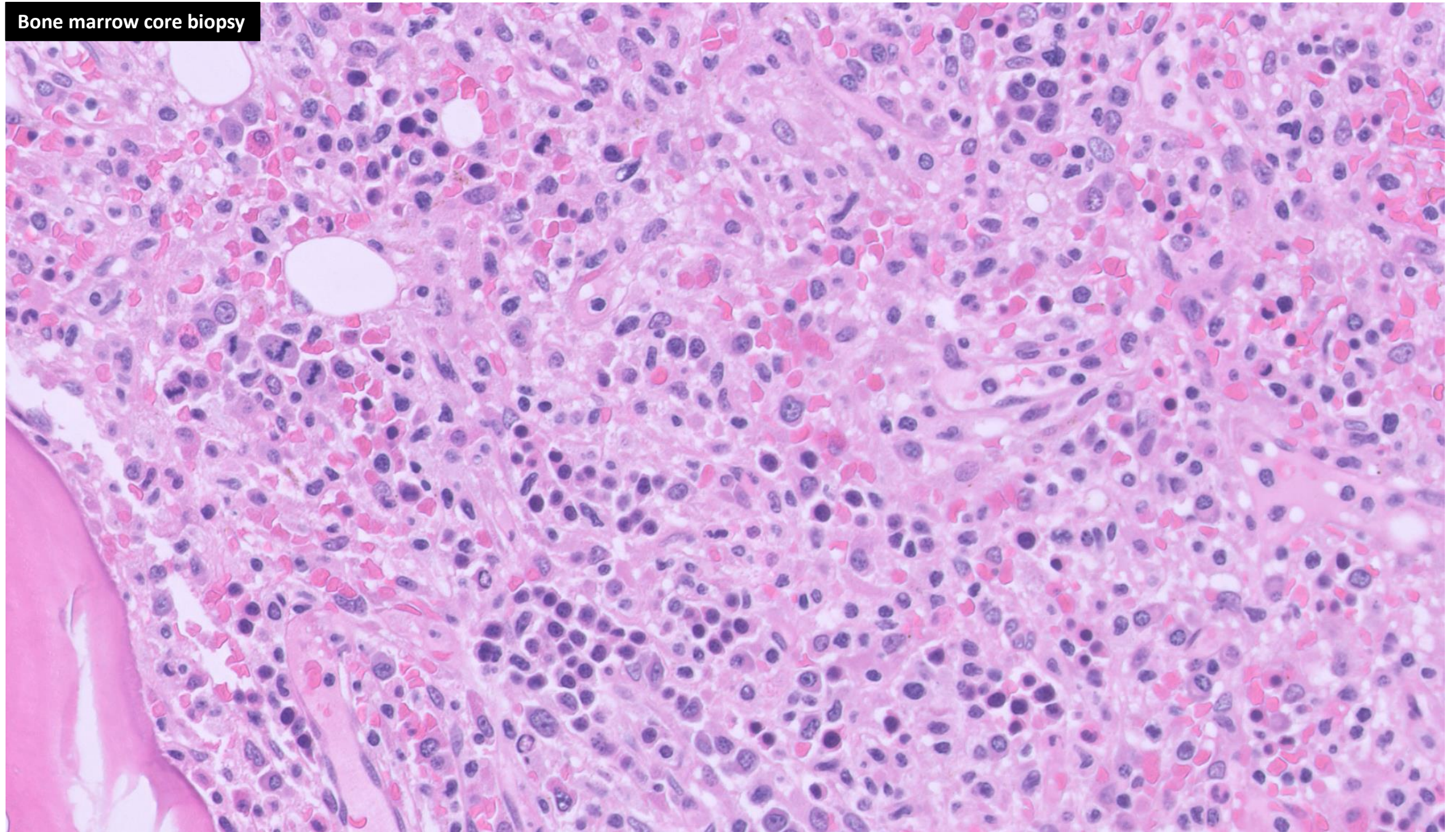
Bone marrow core biopsy



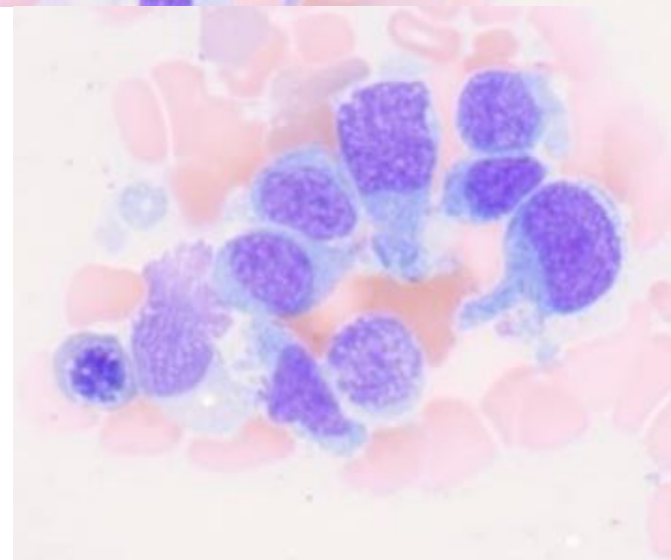
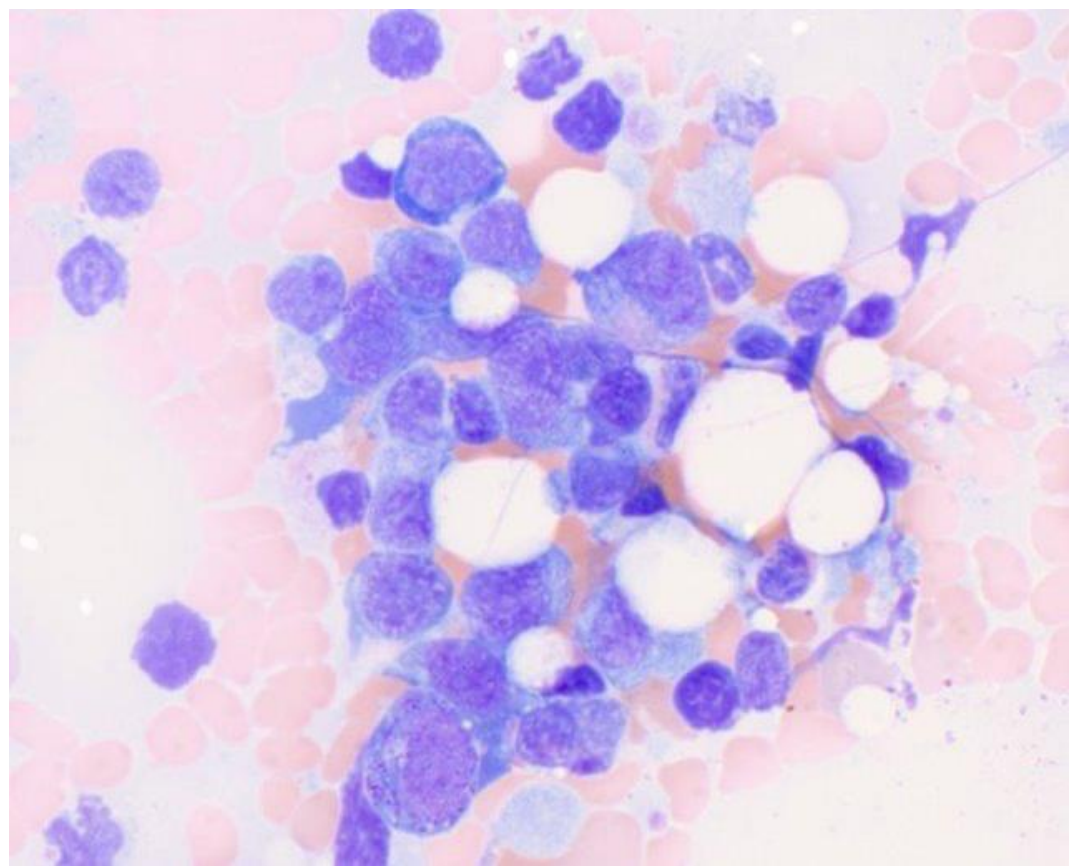
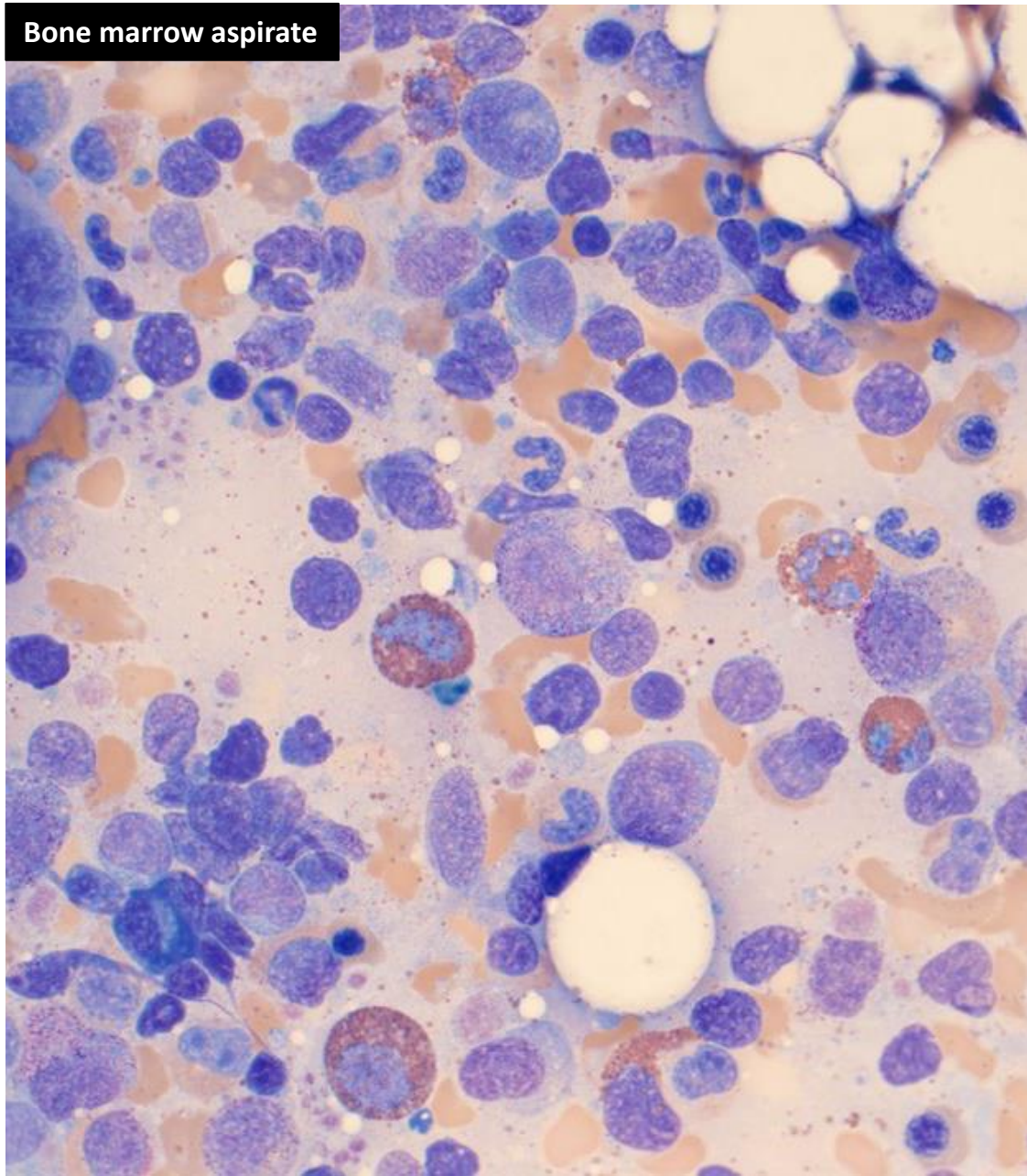
Bone marrow core biopsy



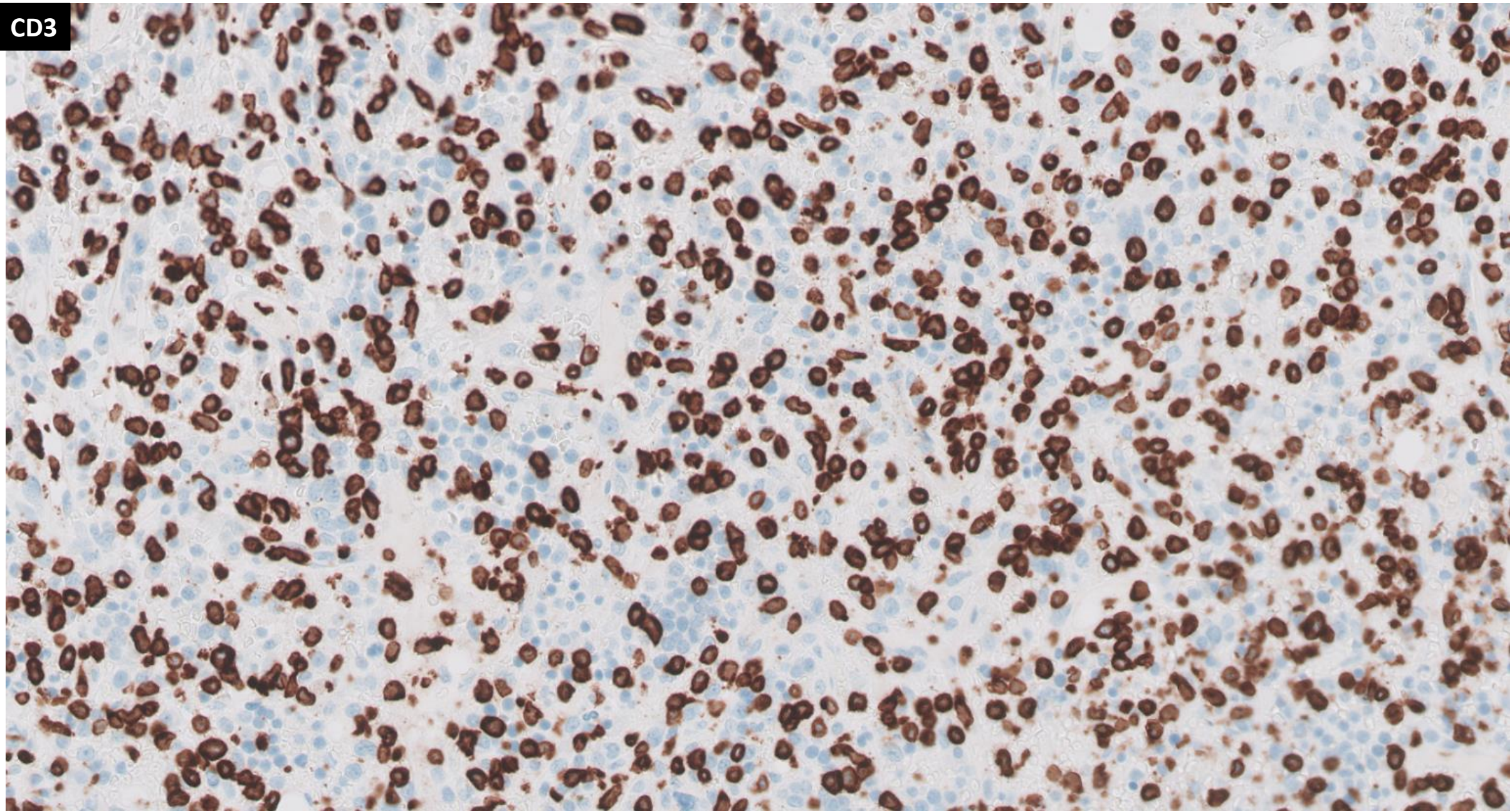
Bone marrow core biopsy



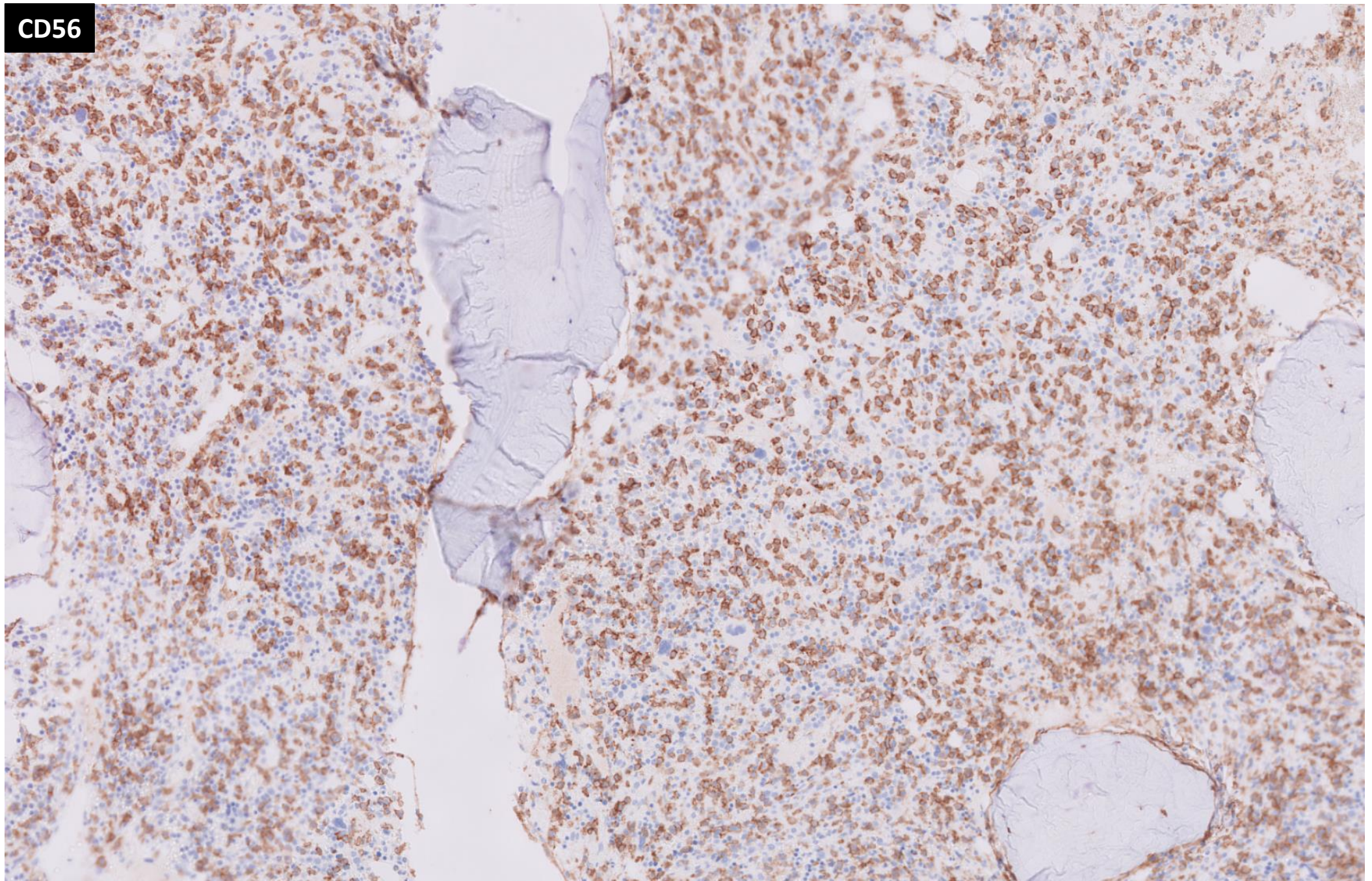
Bone marrow aspirate



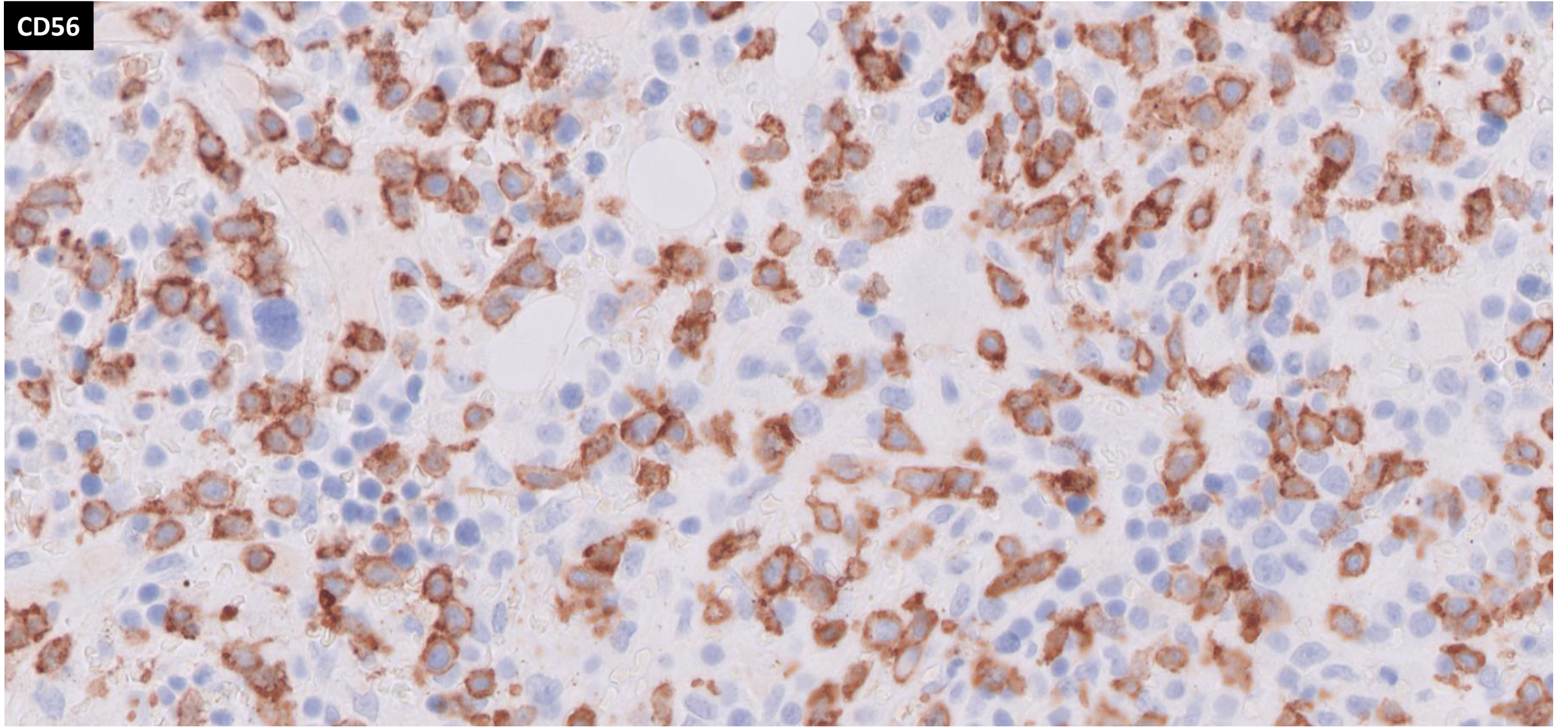
CD3



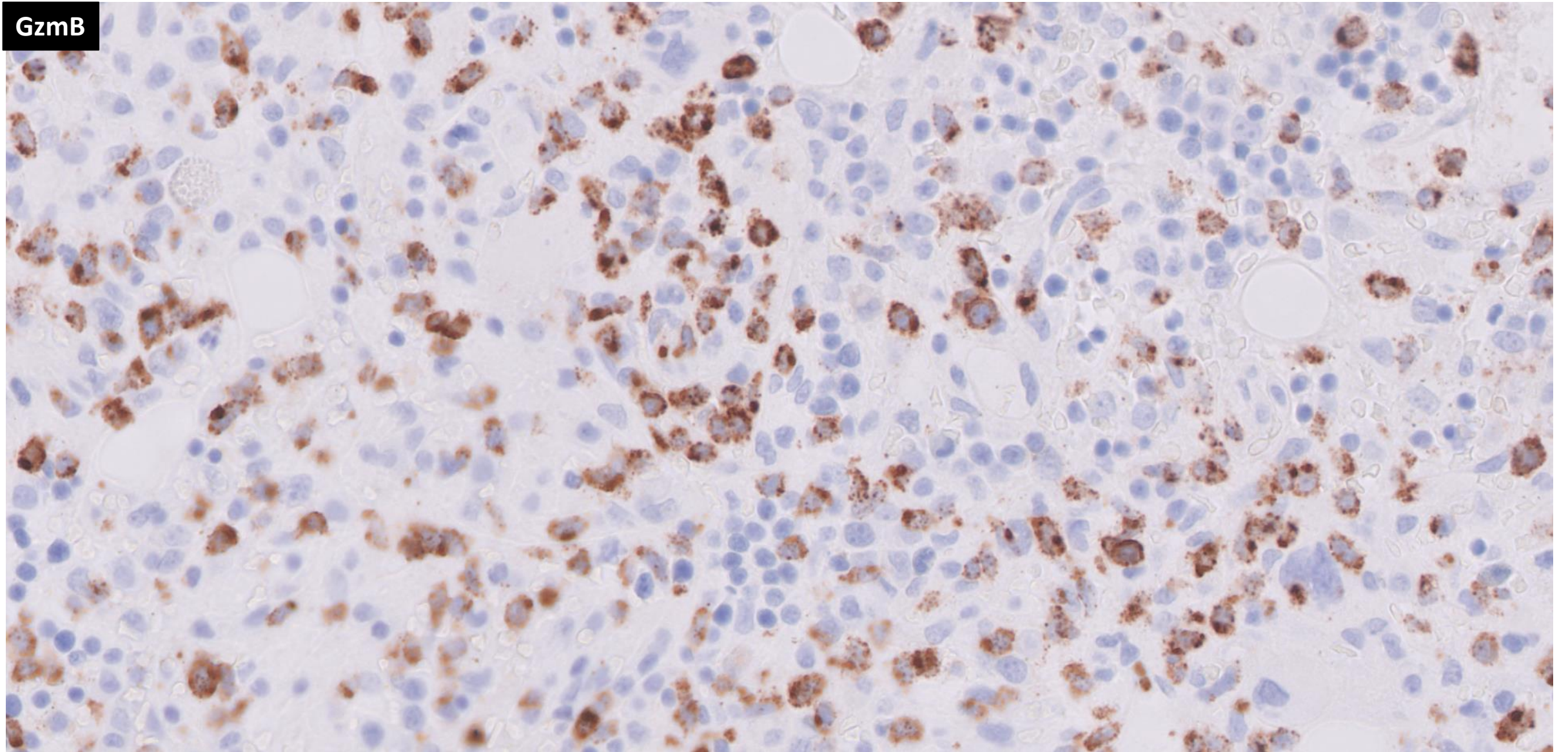
CD56



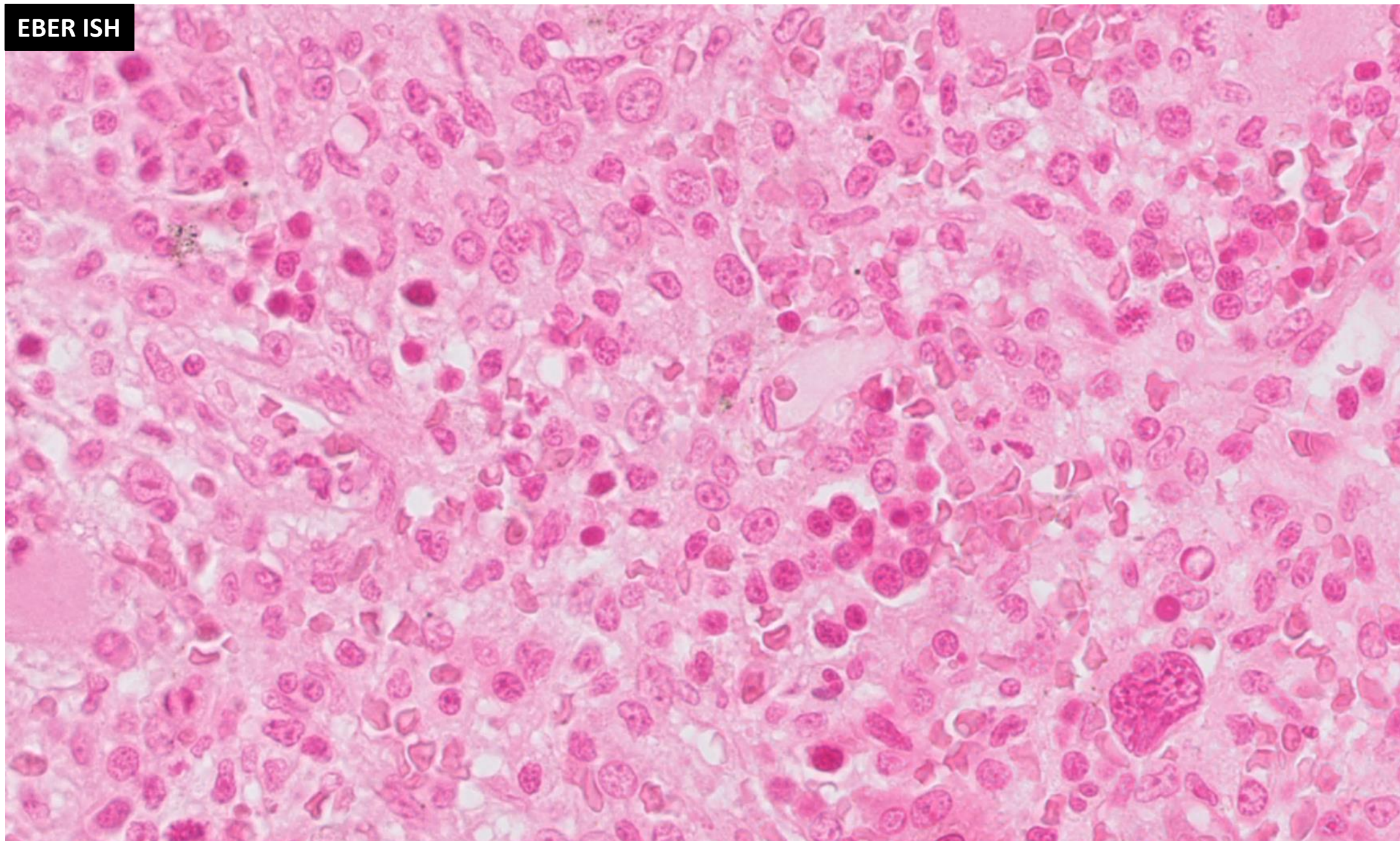
CD56



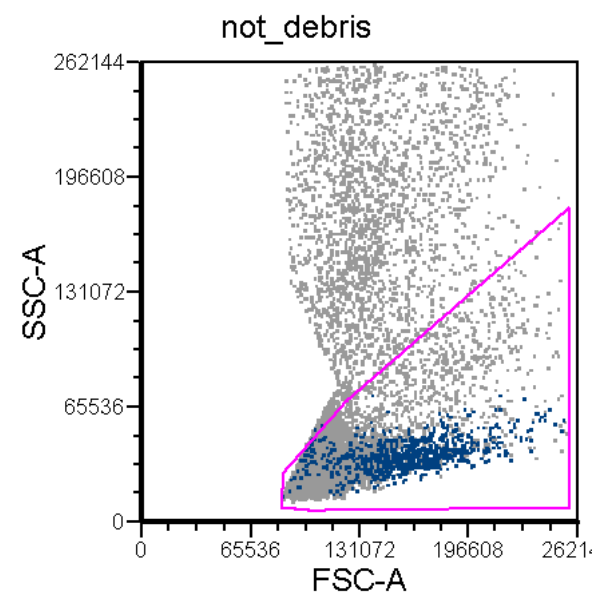
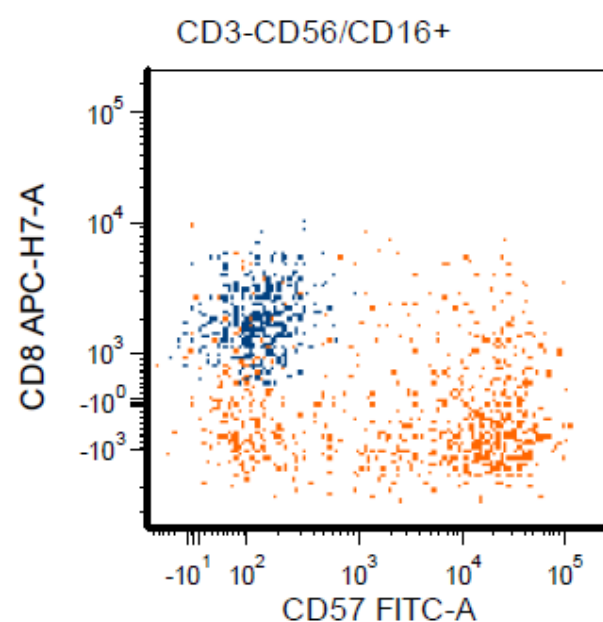
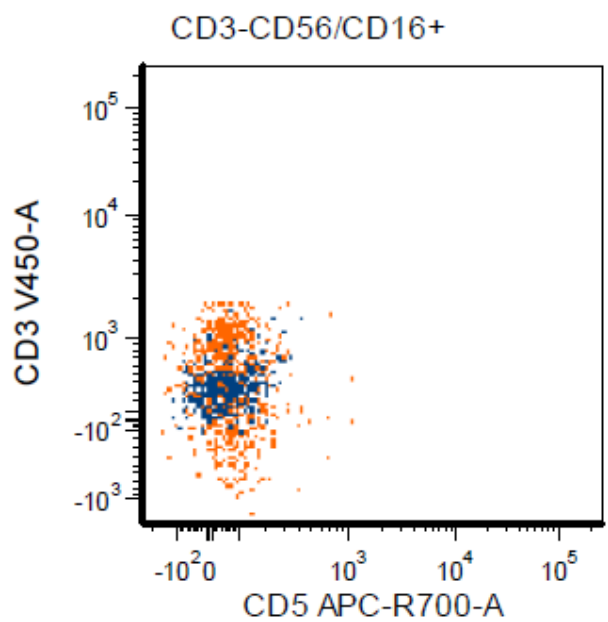
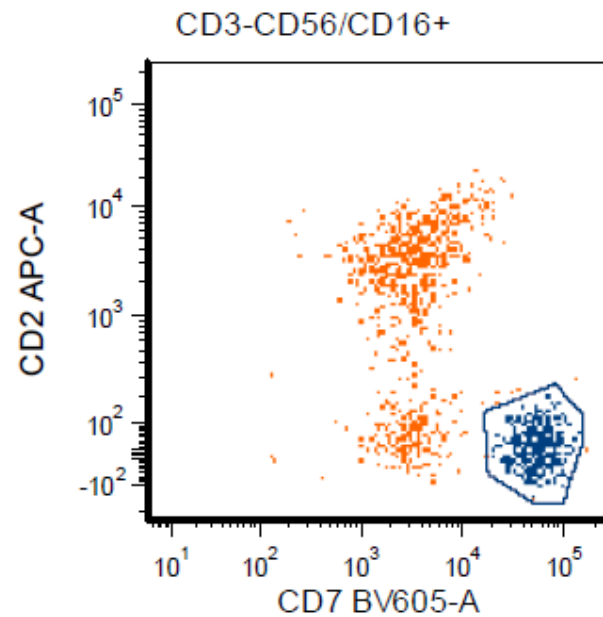
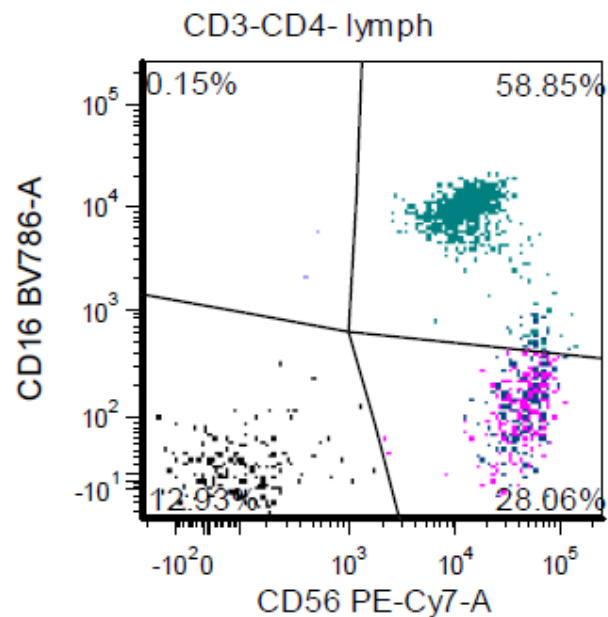
GzmB



EBER ISH



Bone marrow flow cytometry



DIAGNOSIS?



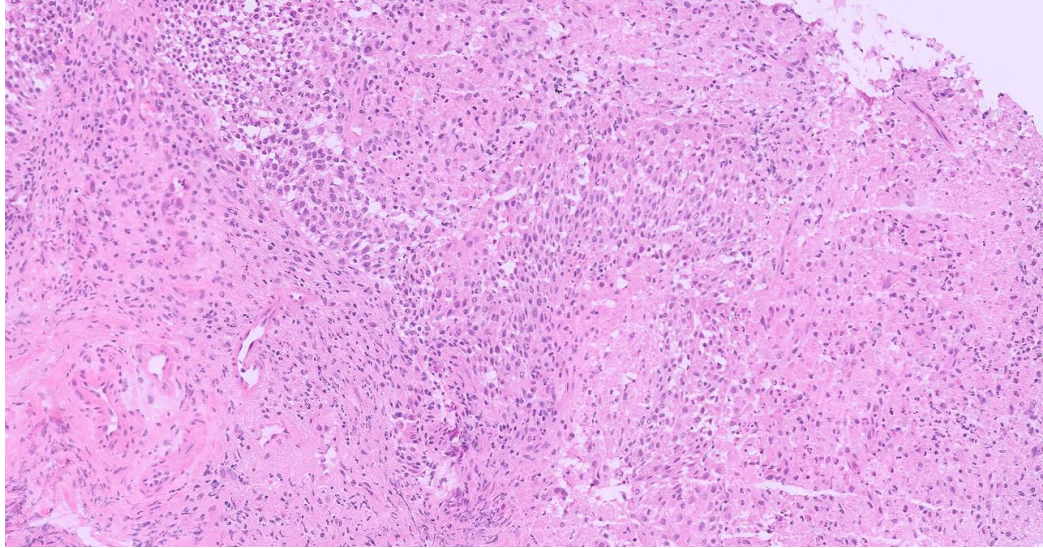
25-0402

Anne Cheng, Xiaoming Zhang; Stanford

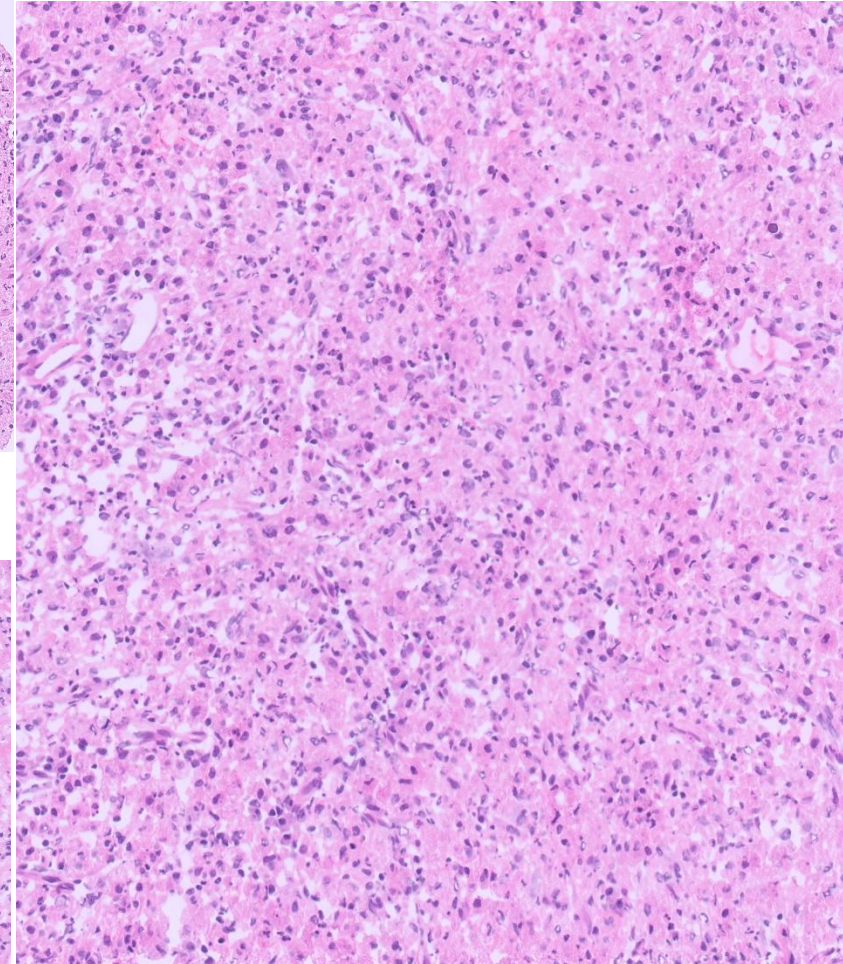
67-year-old woman with sepsis and hematuria. PET/CT findings showed a large complex cystic pelvic mass, concerning for primary malignancy. She has a prior path history of a vaginal mass diagnosed as smooth muscle neoplasm favored to be leiomyoma with degenerative changes vs STUMP, s/p excision. Op Note: 15 to 20 cm pelvic mass intimately involved with the bladder anteriorly, rectosigmoid posteriorly and encompassing the uterus and bilateral adnexa. Numerous small polypoid lesions on the bladder

Three specimens were sent for frozen:

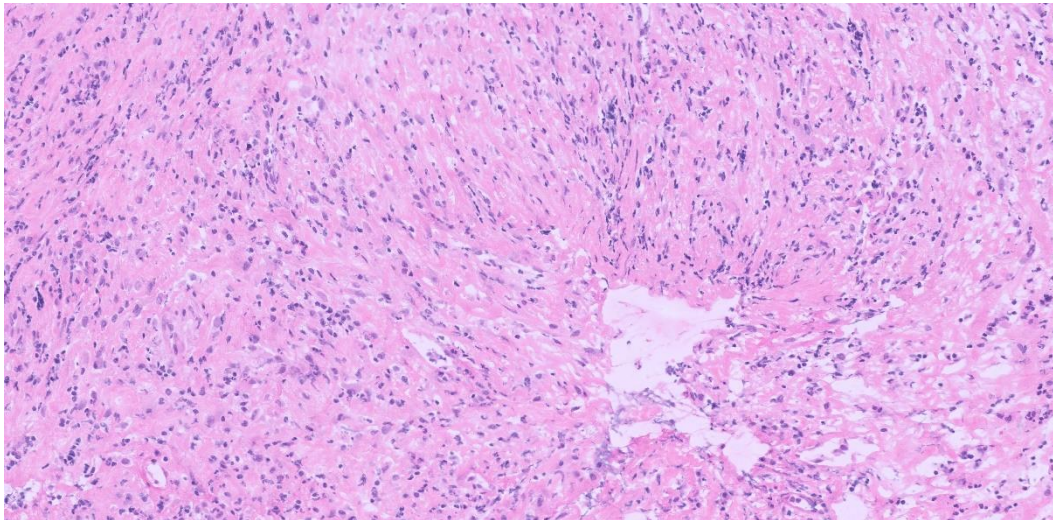
FSA. Bladder, biopsy



FSC. Bladder nodule, biopsy

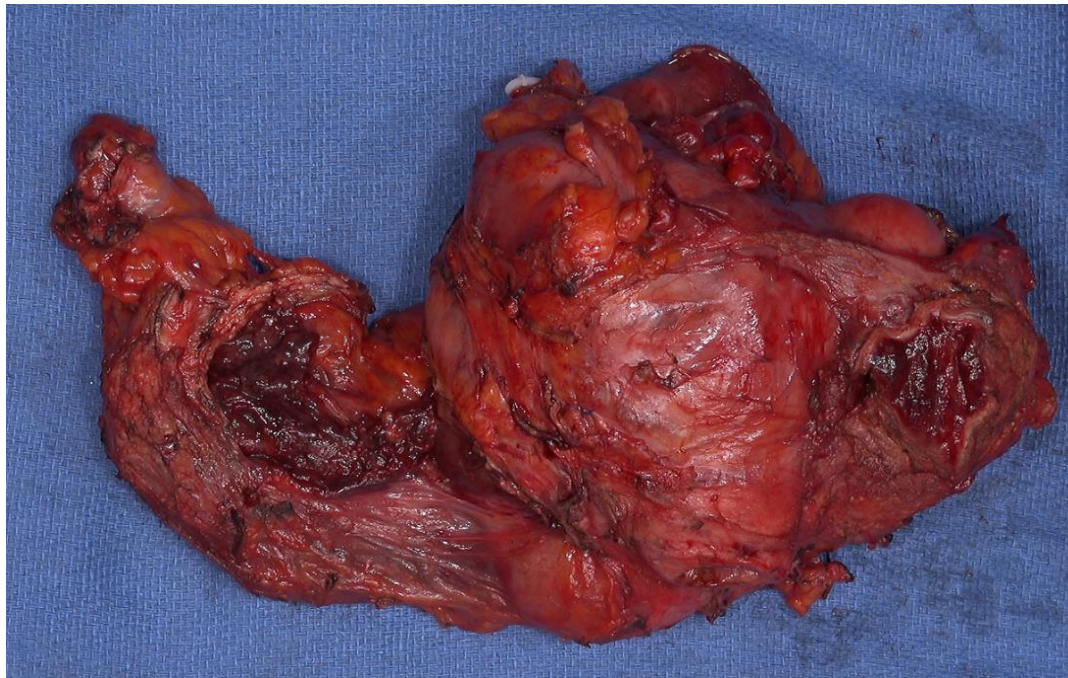


FSB. Pelvic mass, biopsy

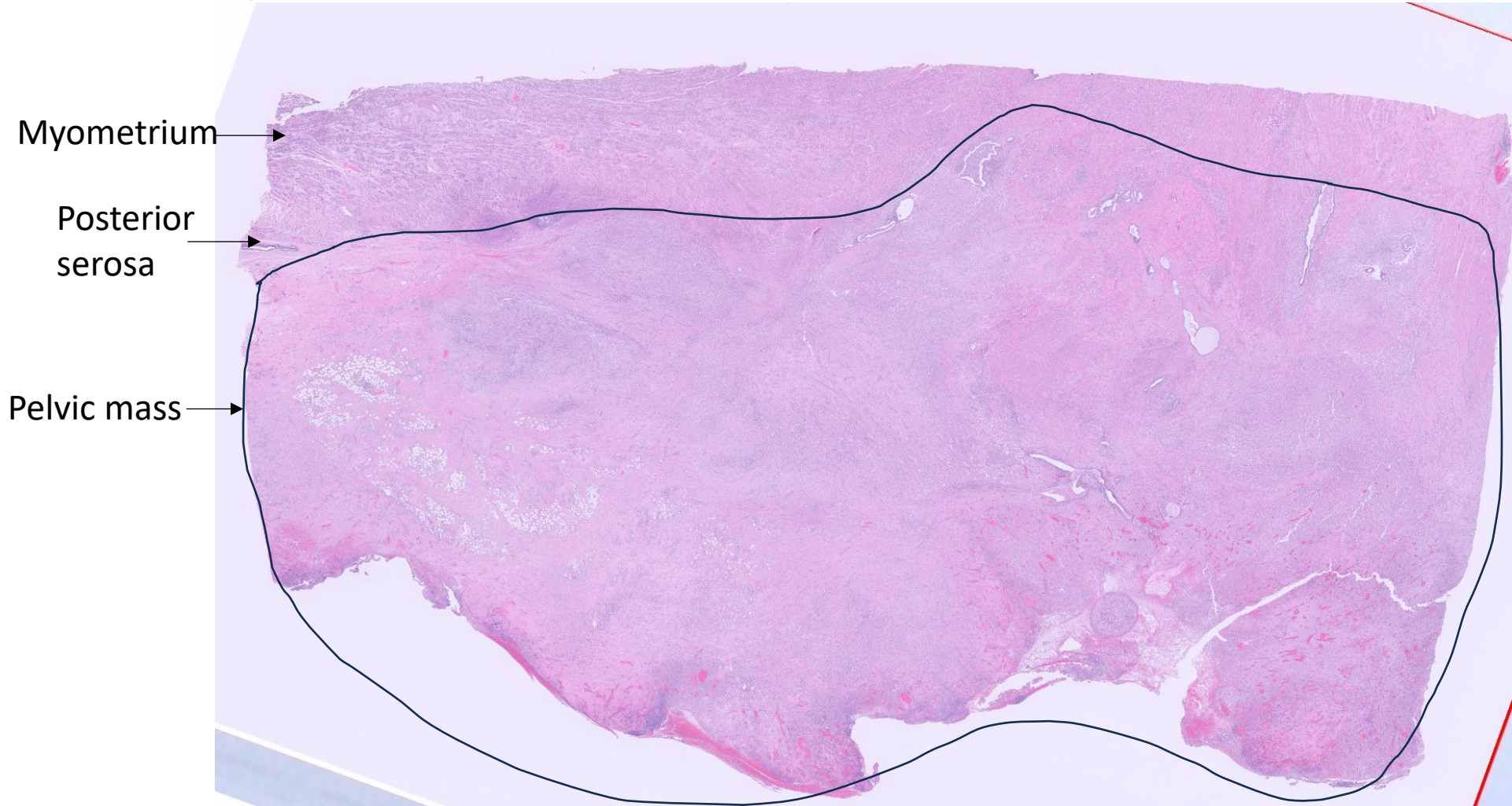


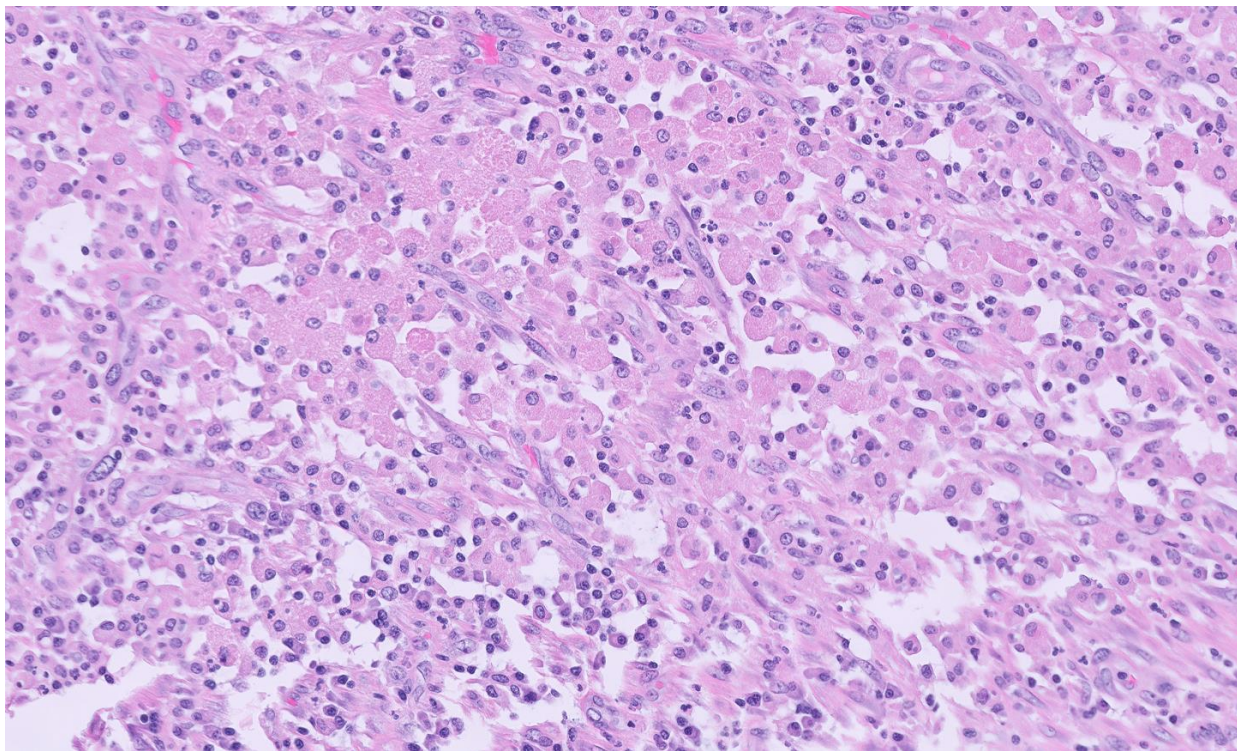
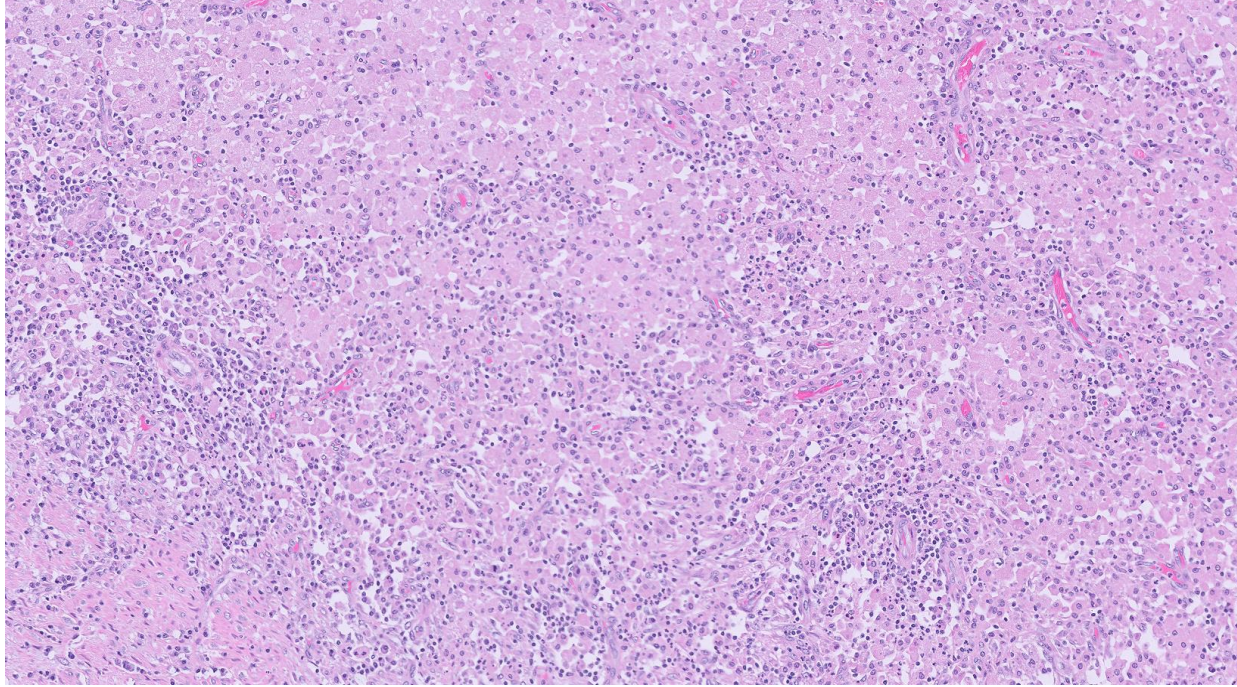
The specimen

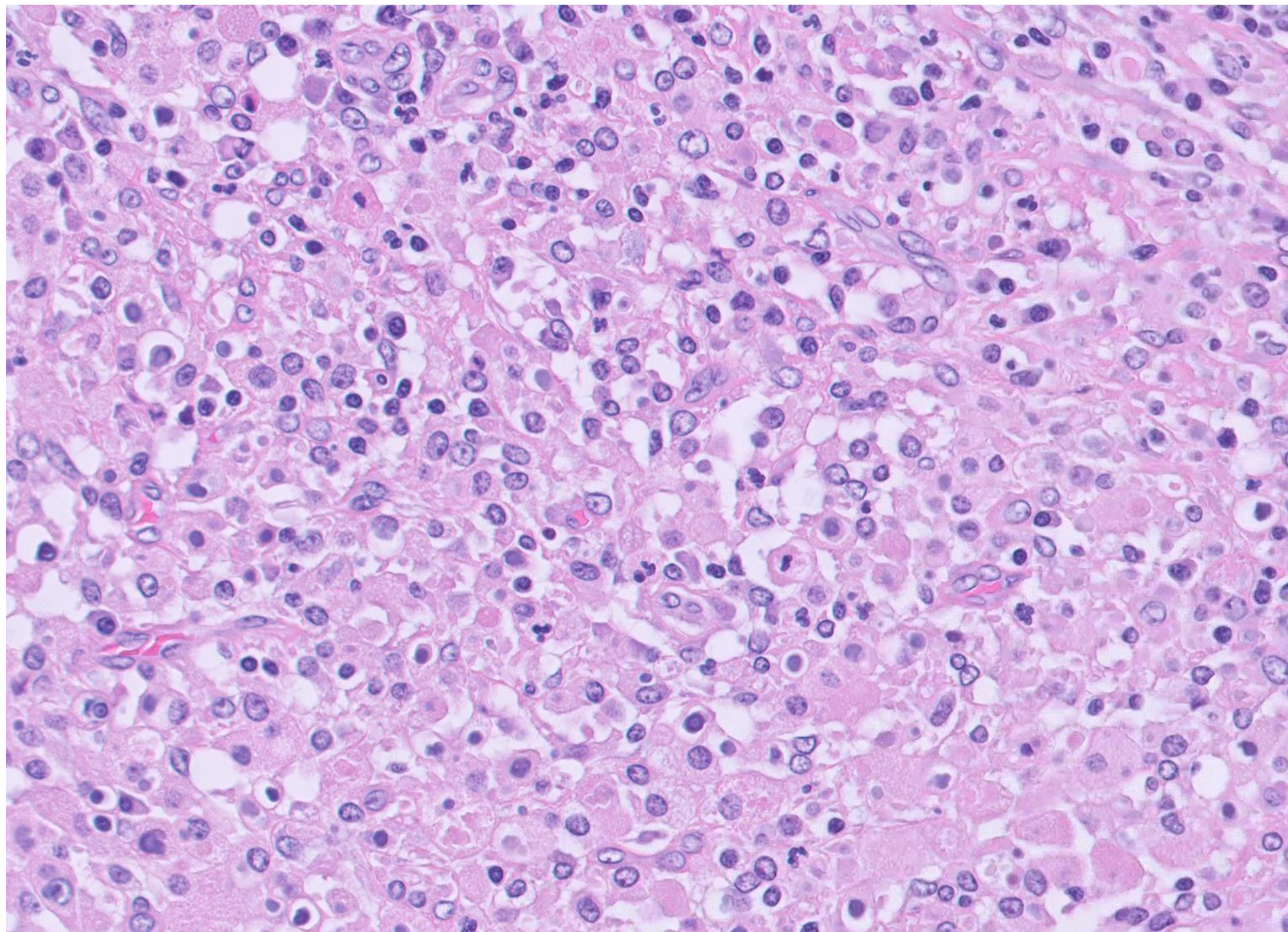
A pelvic exenteration was performed, resecting a portion of the left bladder, portion of vagina, uterus, cervix, fallopian tubes, ovaries, appendix, and rectosigmoid.



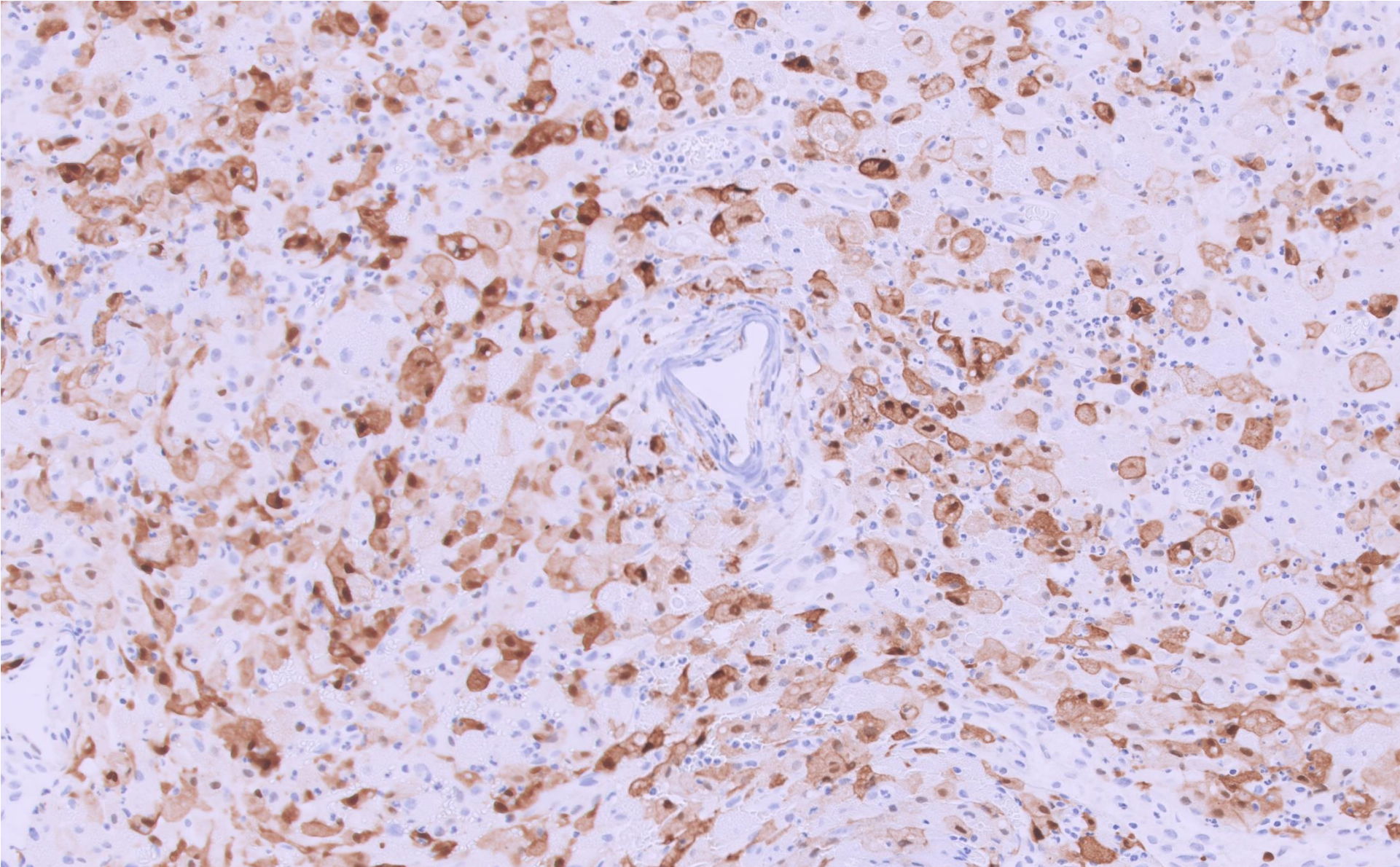
Microscopic







S100



DIAGNOSIS?



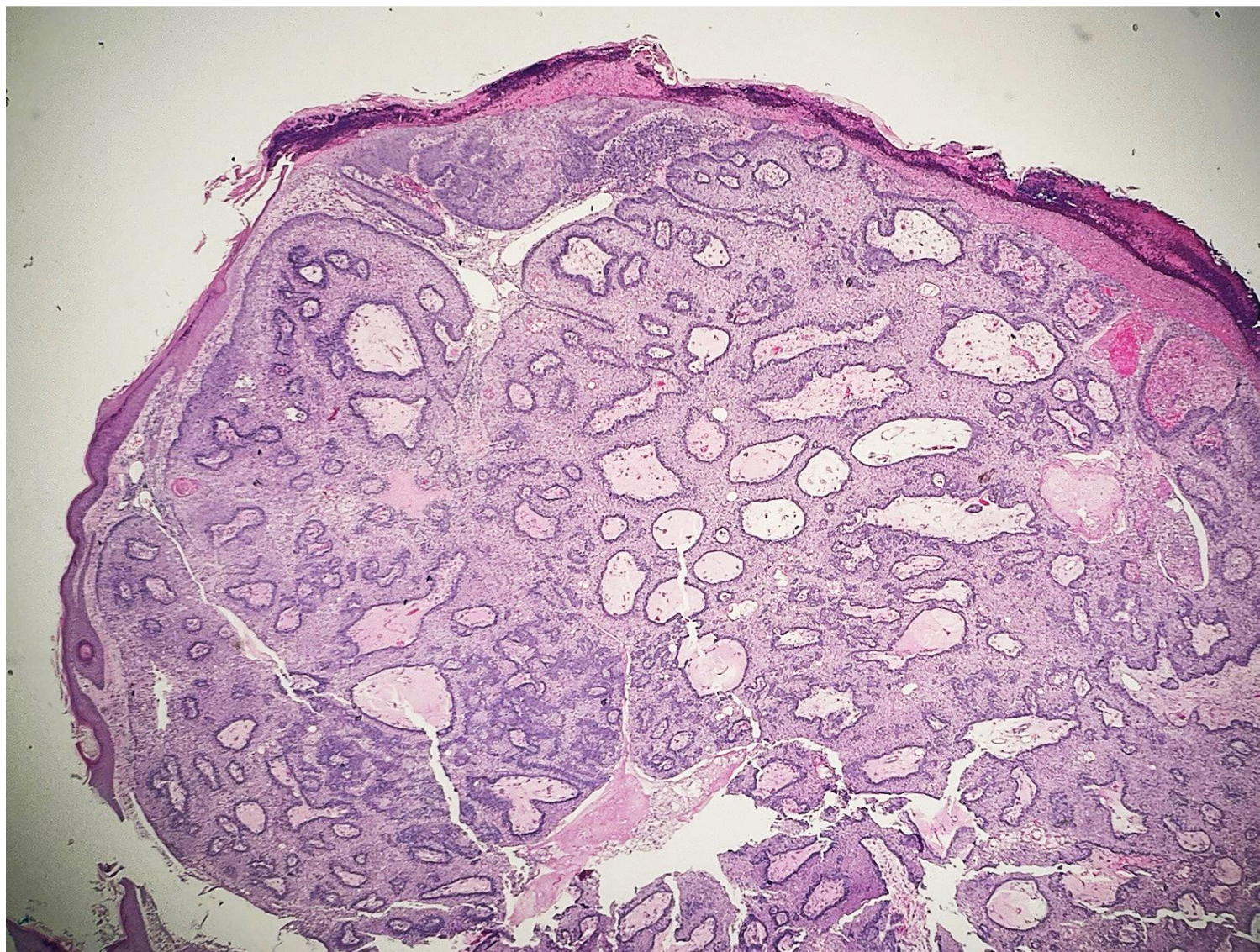
25-0403

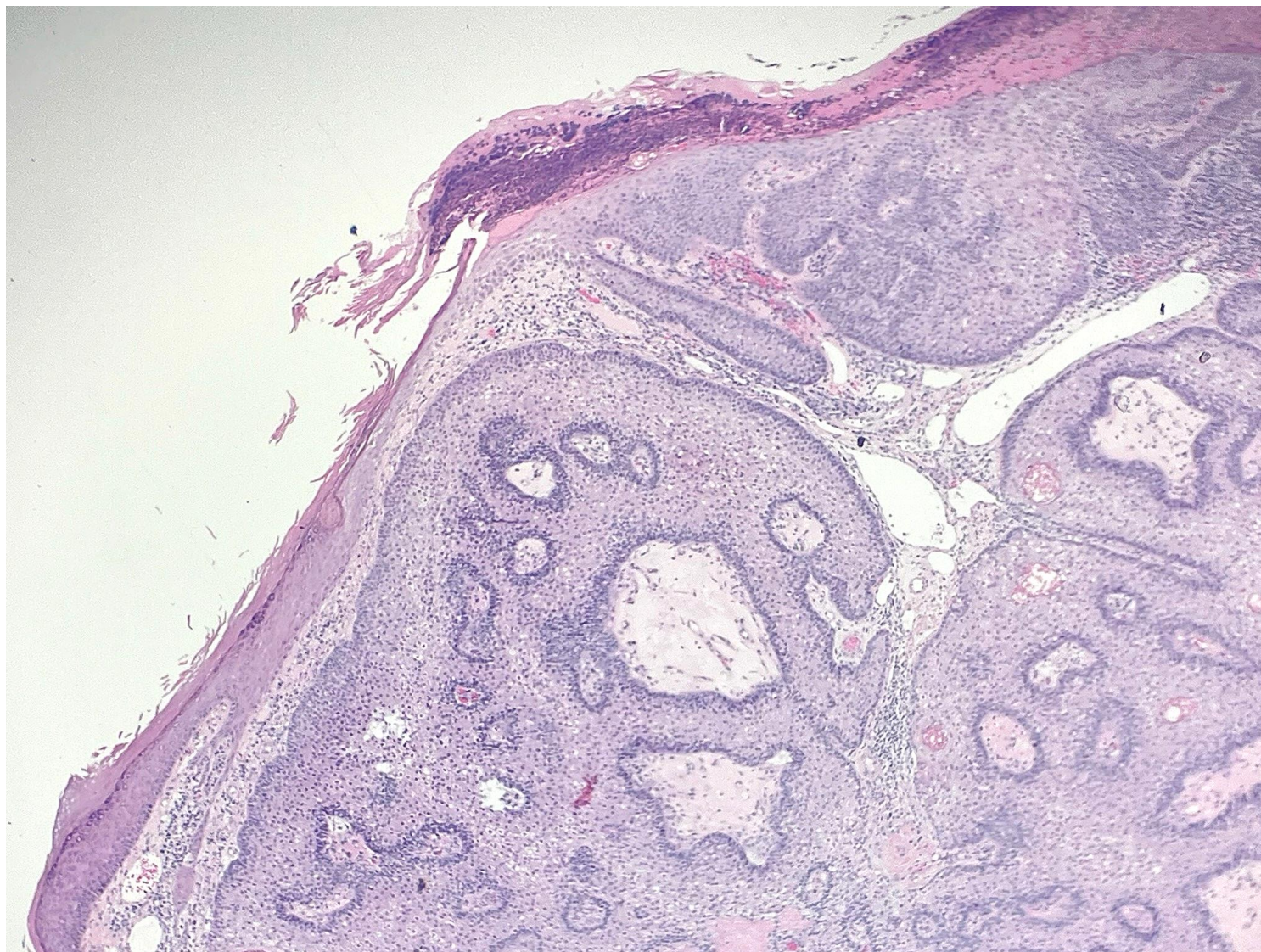
Harris Goodman; Alameda Health System

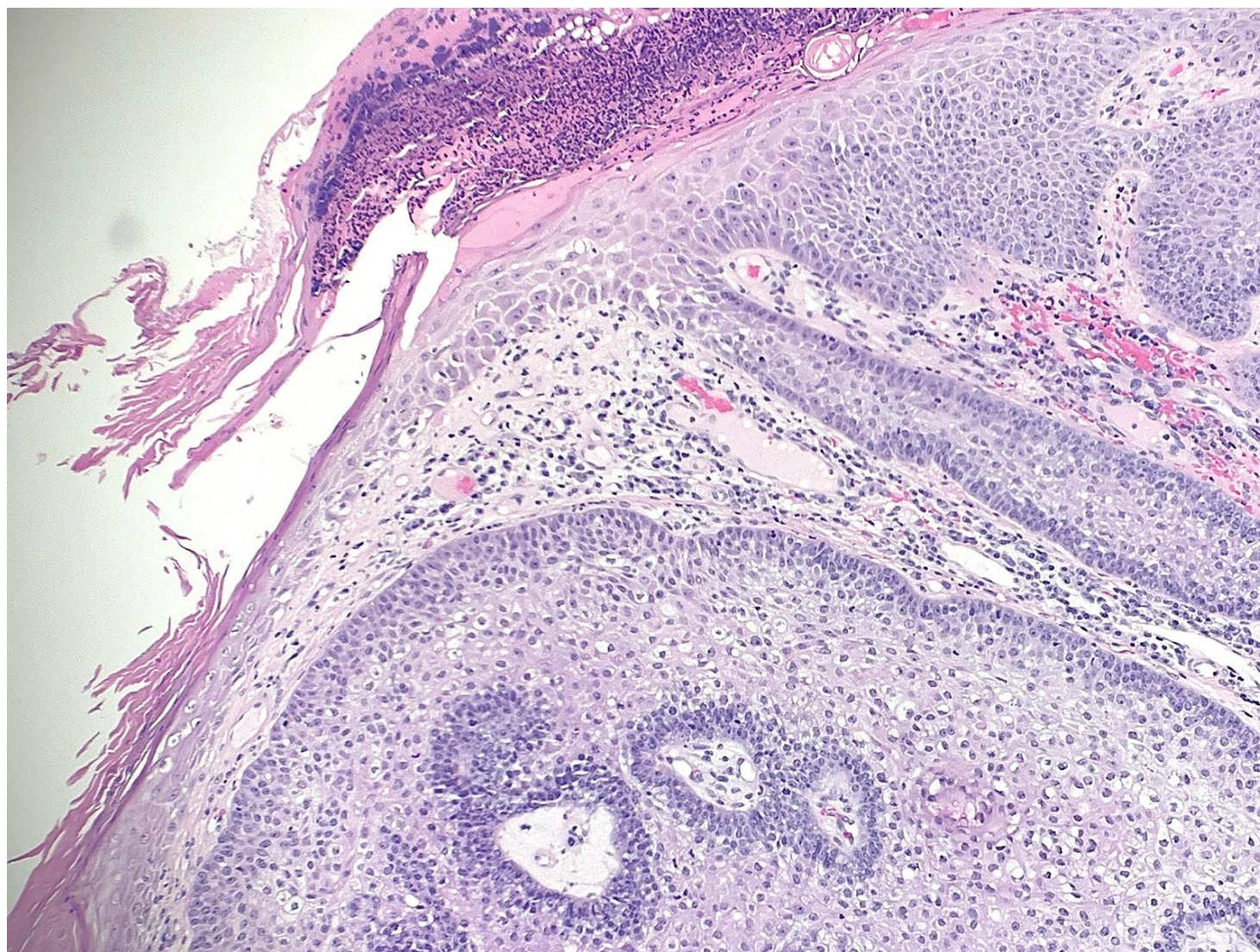
60-ish year old man with a complex medical history, including HTN, DMII, HLD and h/o renal transplant (6/2017) on prednisone, tacrolimus and MMF, presenting for consultation of growth on the left forehead for the last 3-4 months. He reports that it started as a small pimple and grew. It bled with manipulation. Exam reveals a 1.8 cm x 1.0 cm dome-shaped pink plaque on the left forehead x 4 months. Clinical differential diagnosis includes pyogenic granuloma, KA vs. other.

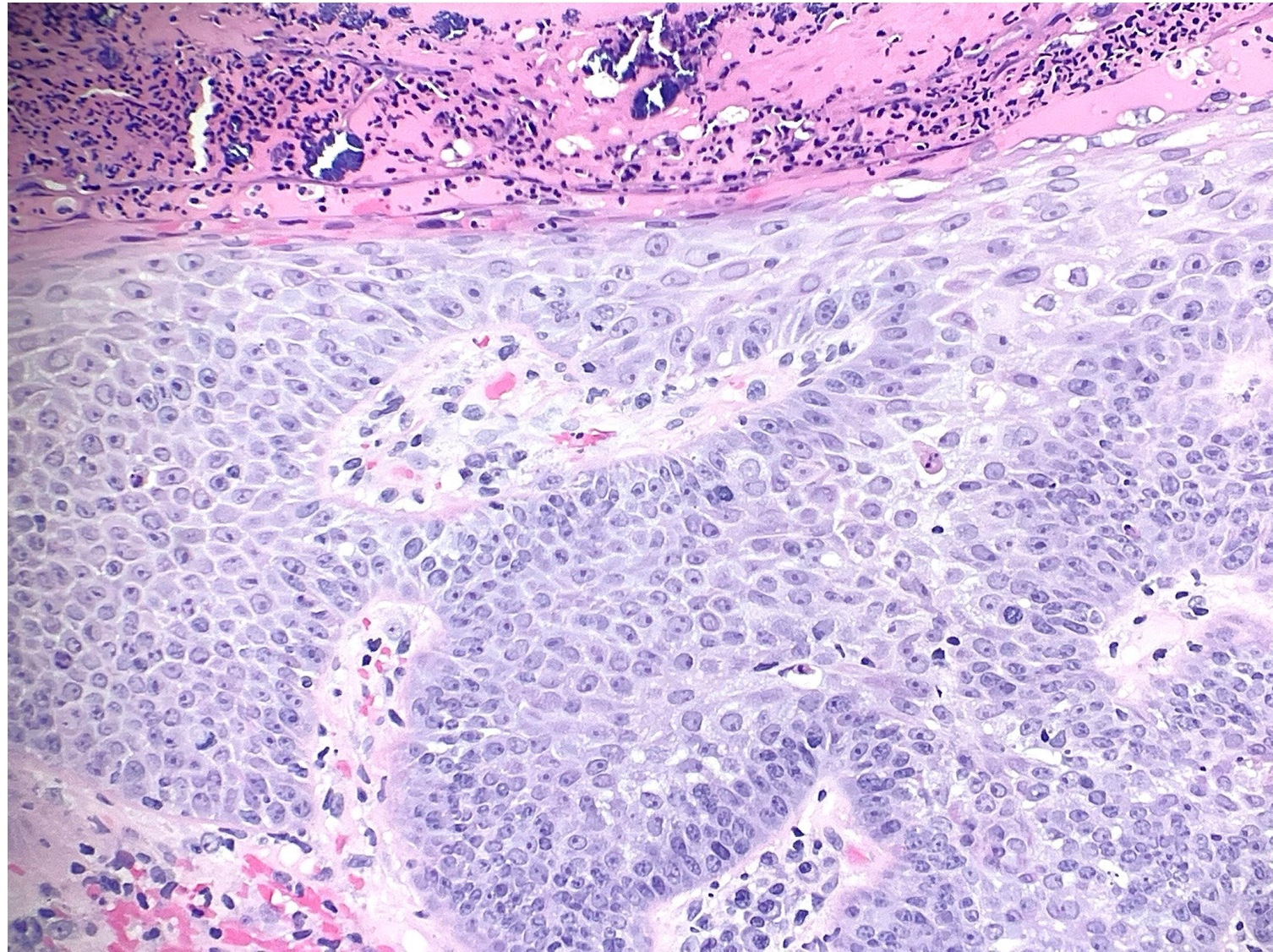
Clinical Examination:

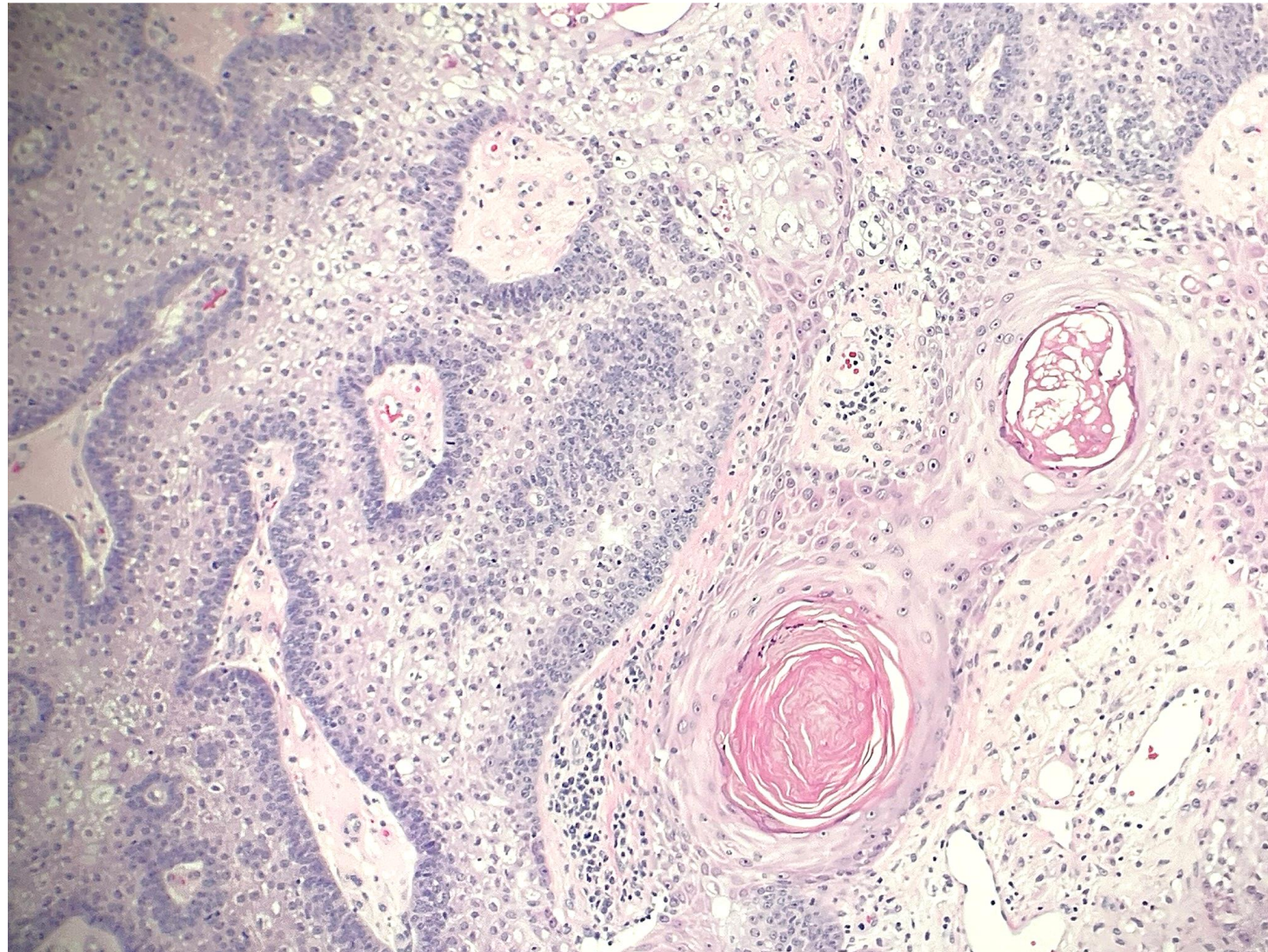


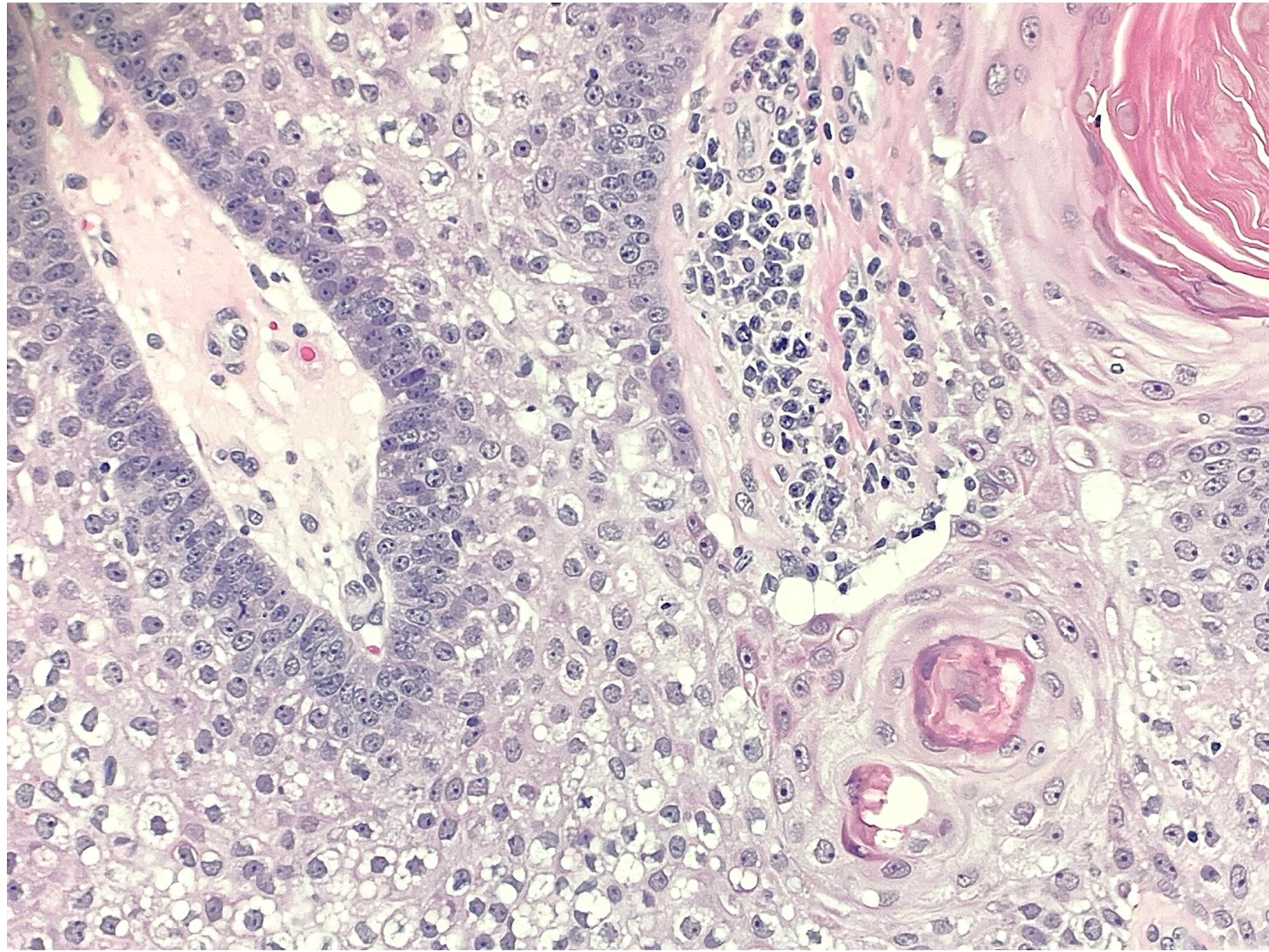


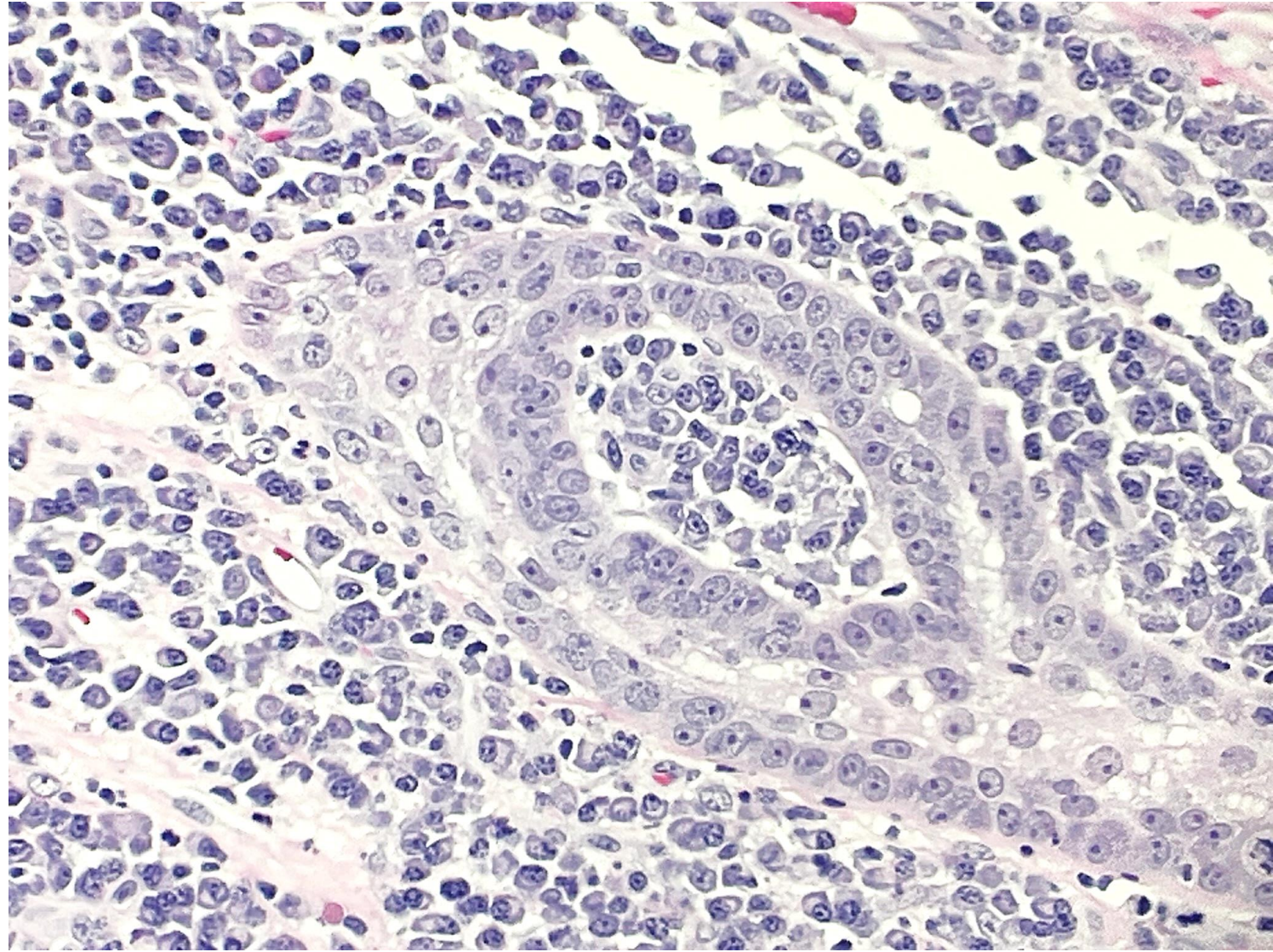


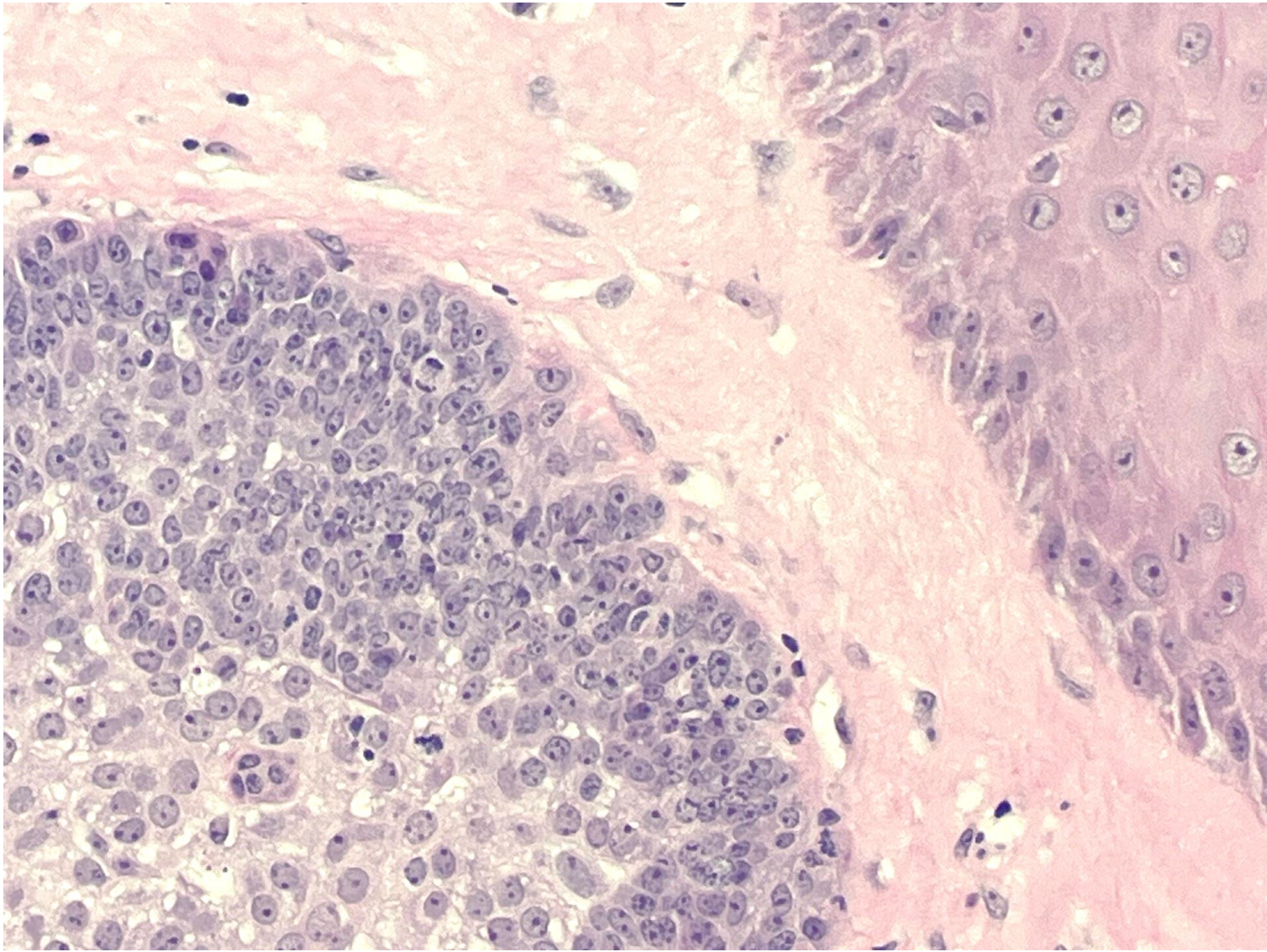












DIAGNOSIS?



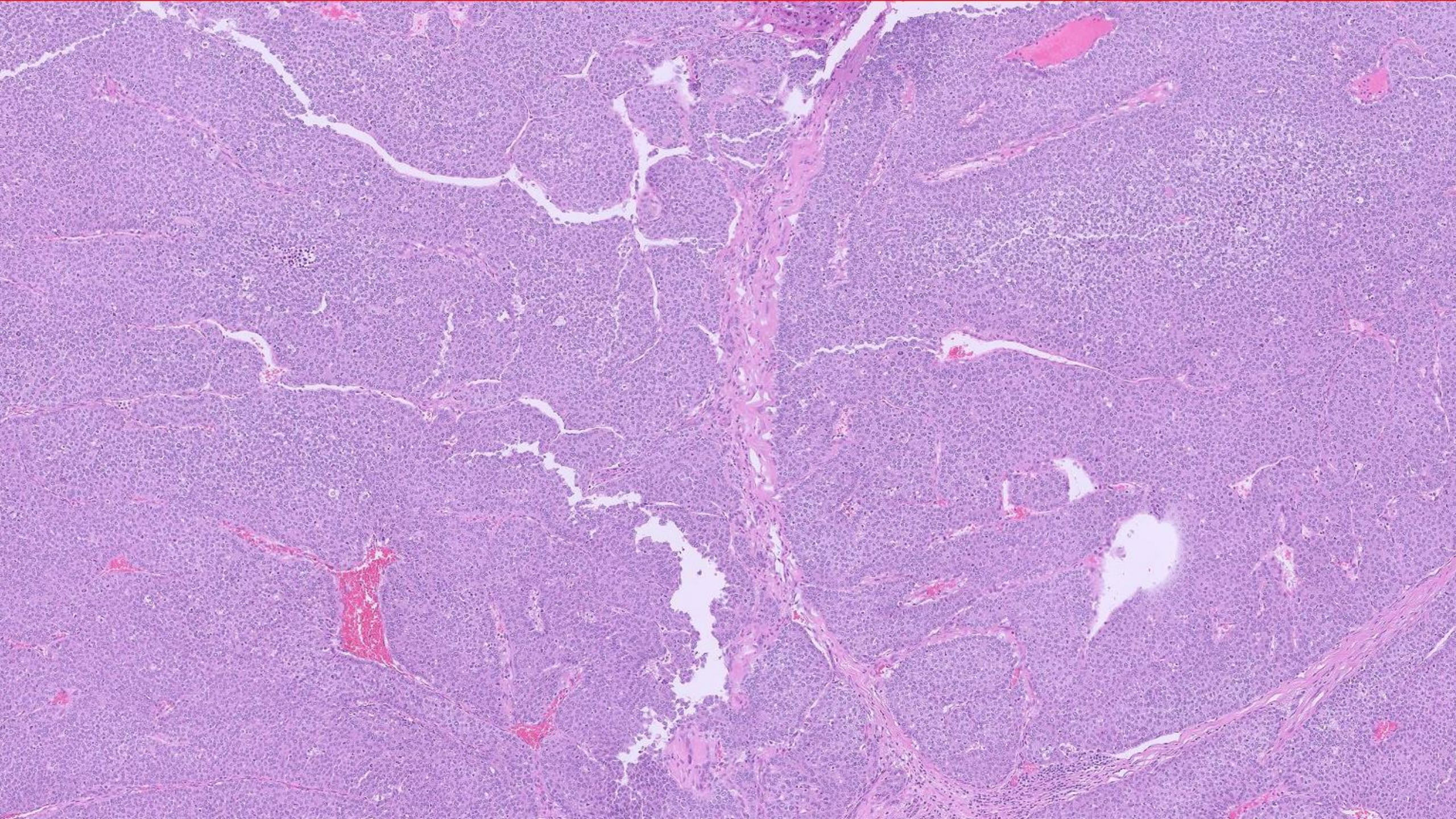
25-0404

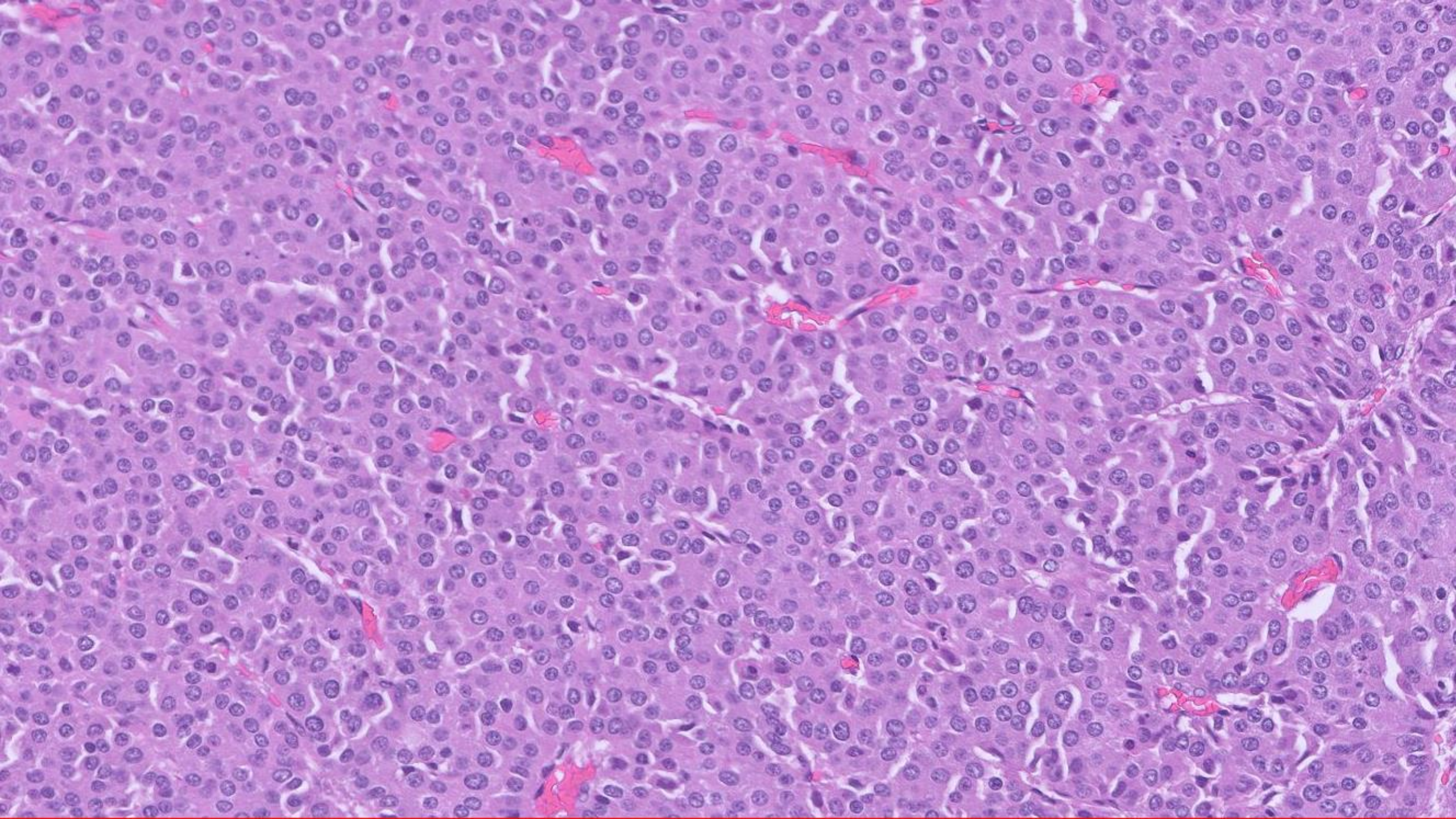
Iain Miller, David Bingham; Stanford

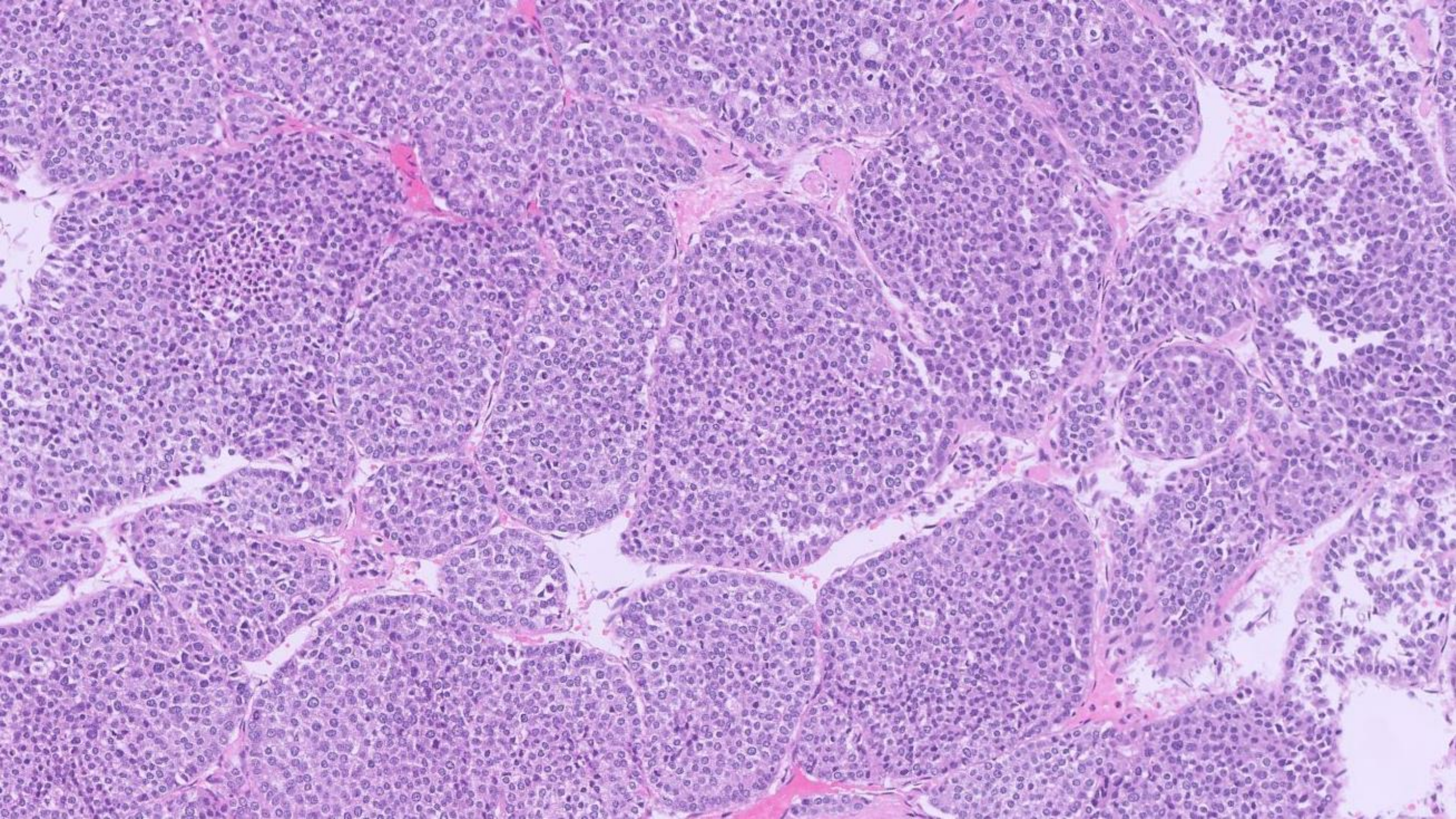
First case:

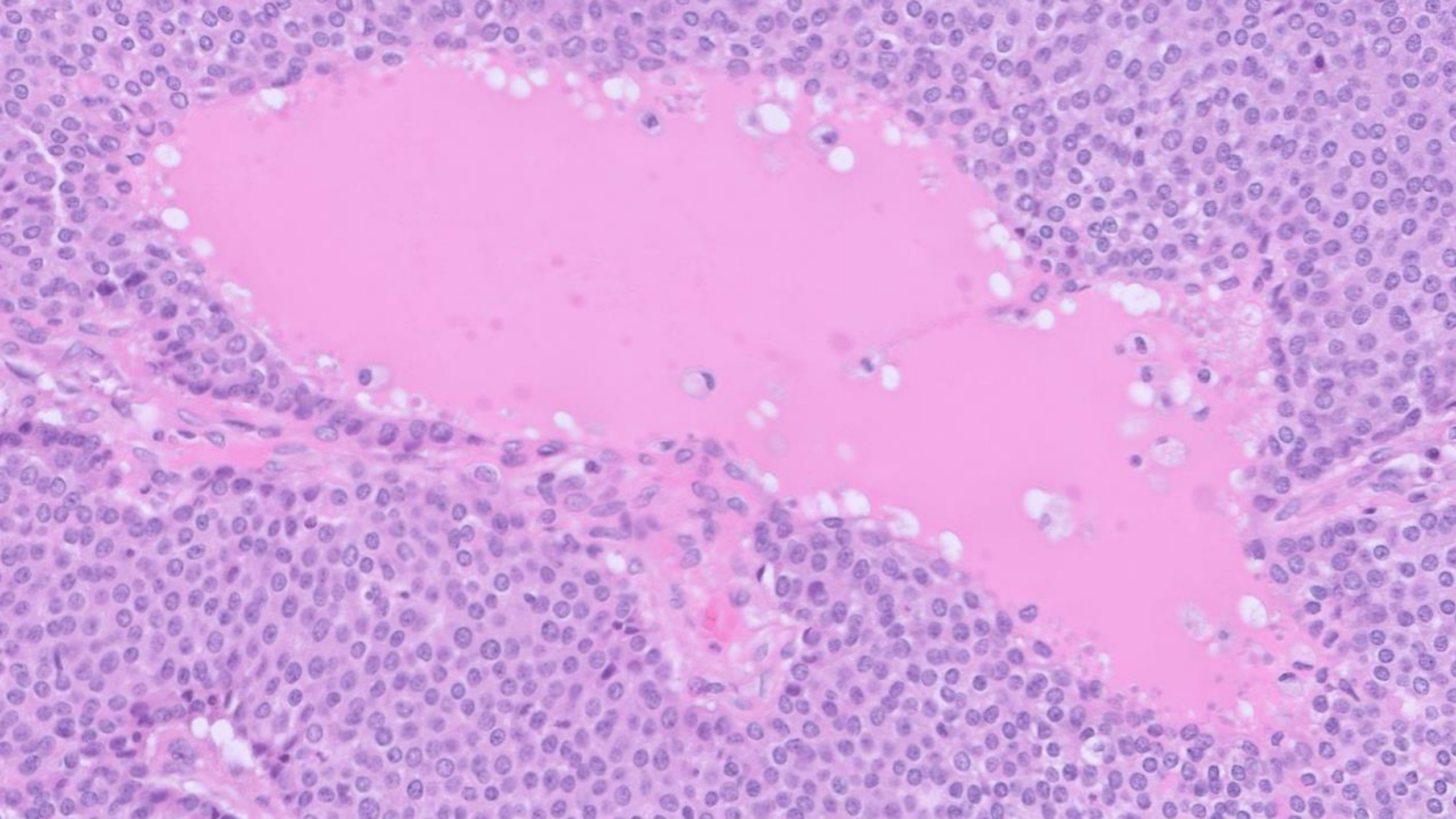
Early 30's female with history of pT2N1a papillary thyroid cancer status post thyroidectomy and bilateral neck dissection (2023) found to have left hepatic lobe lesion (17 cm) suspicious for solitary metastasis on CT-scan. Undergoes left-sided hepatectomy.

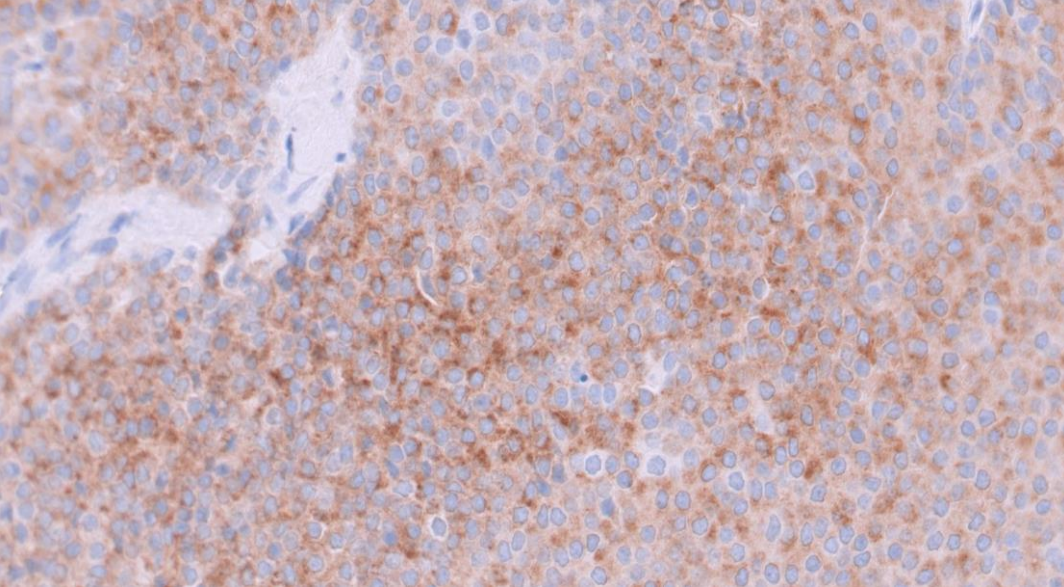




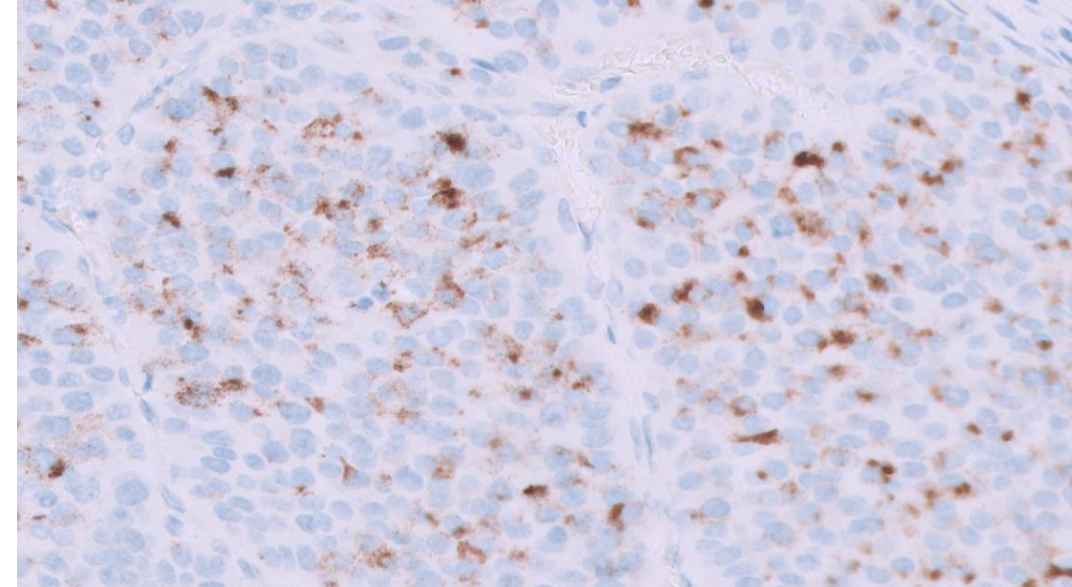






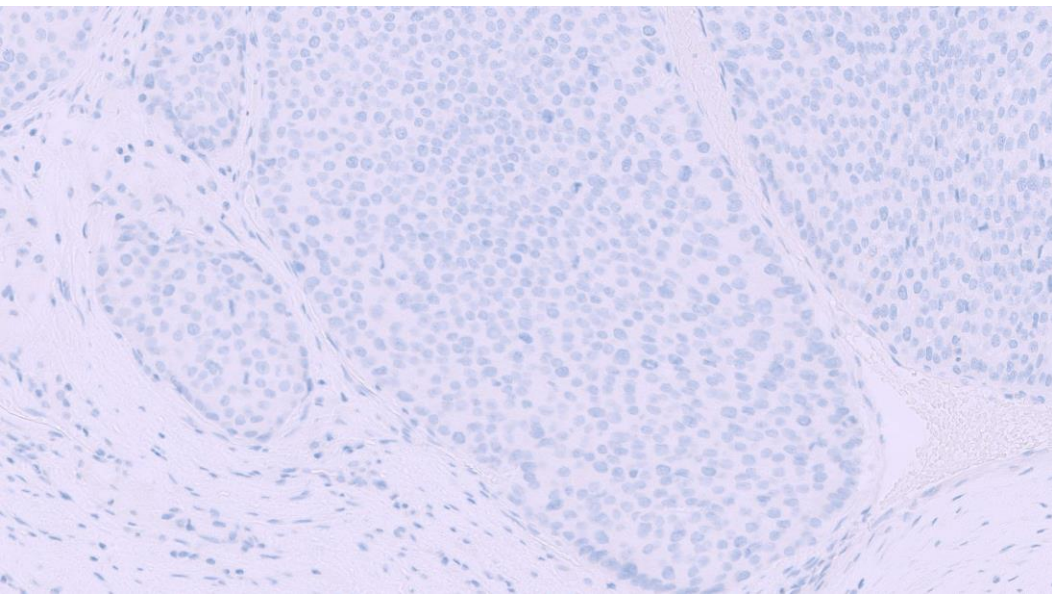


Synaptophysin

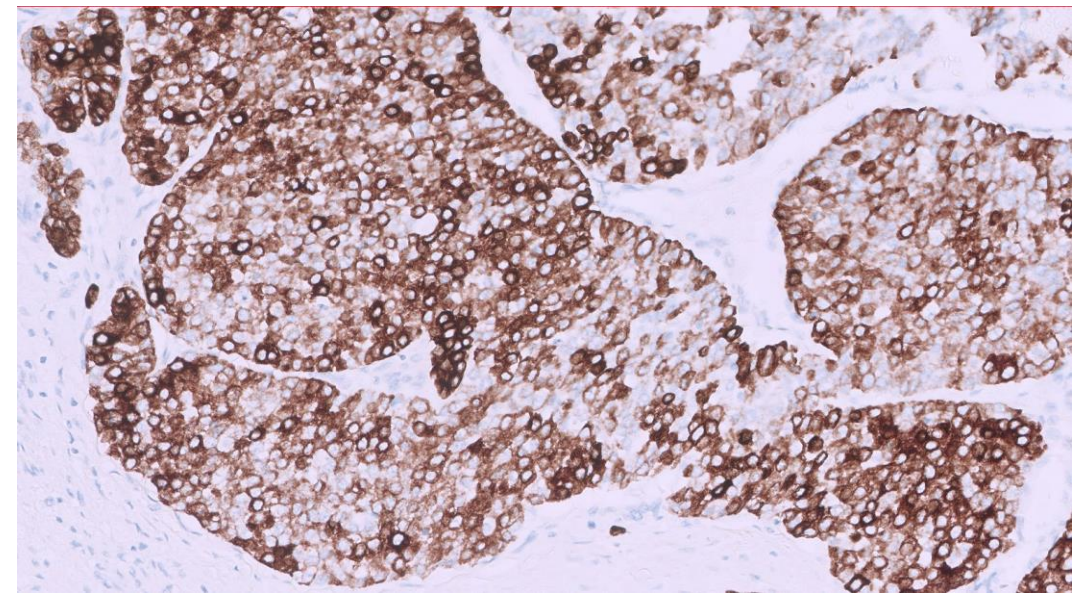


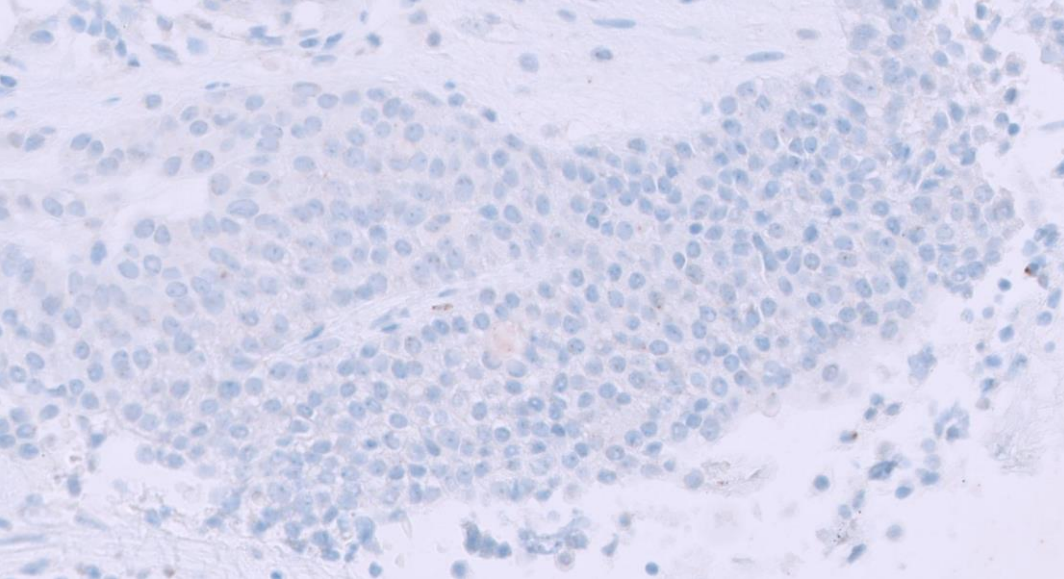
Chromogranin

TTF-1



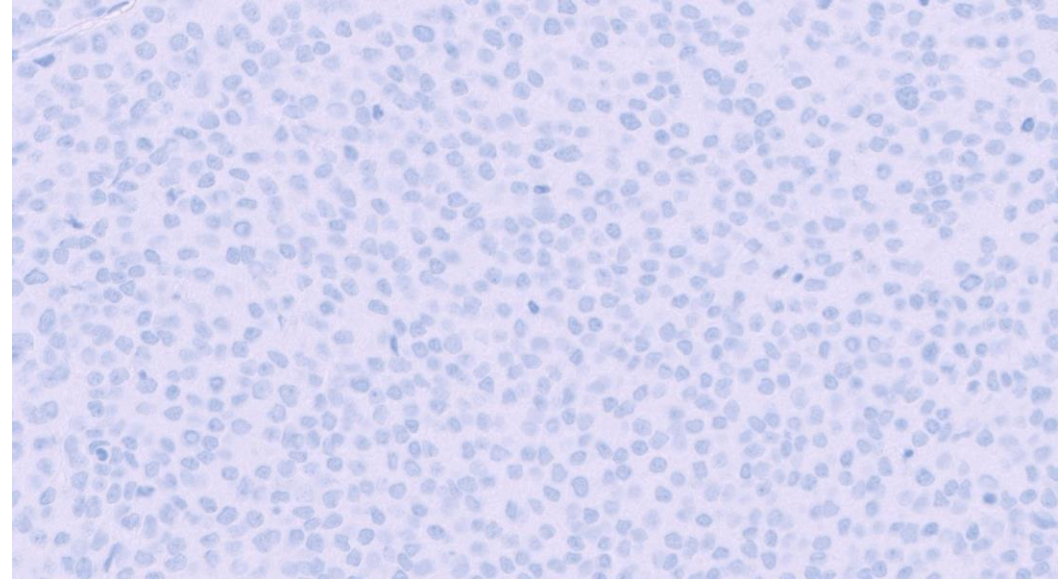
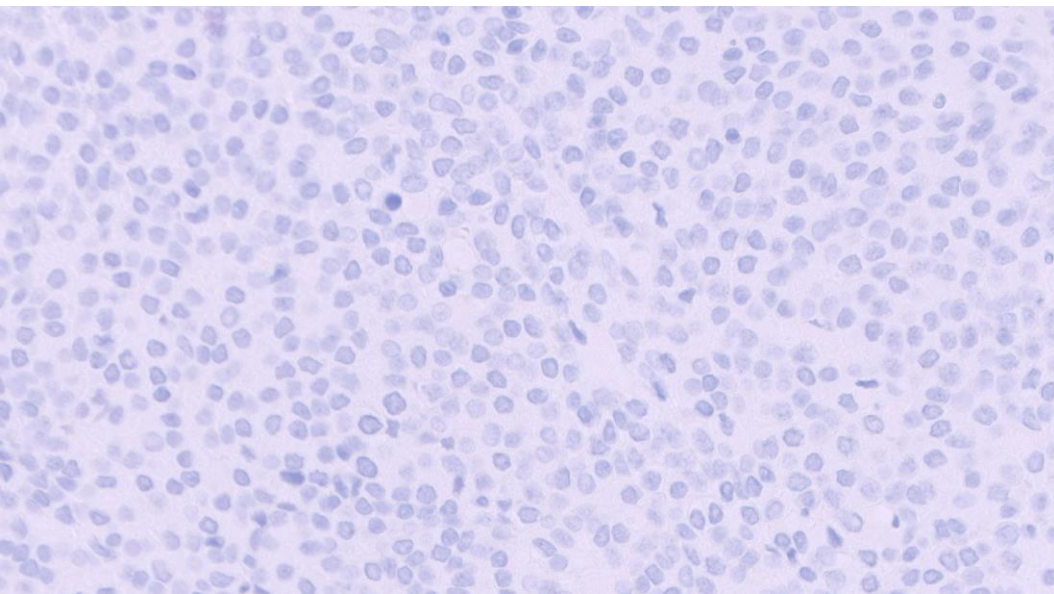
Pan-CK





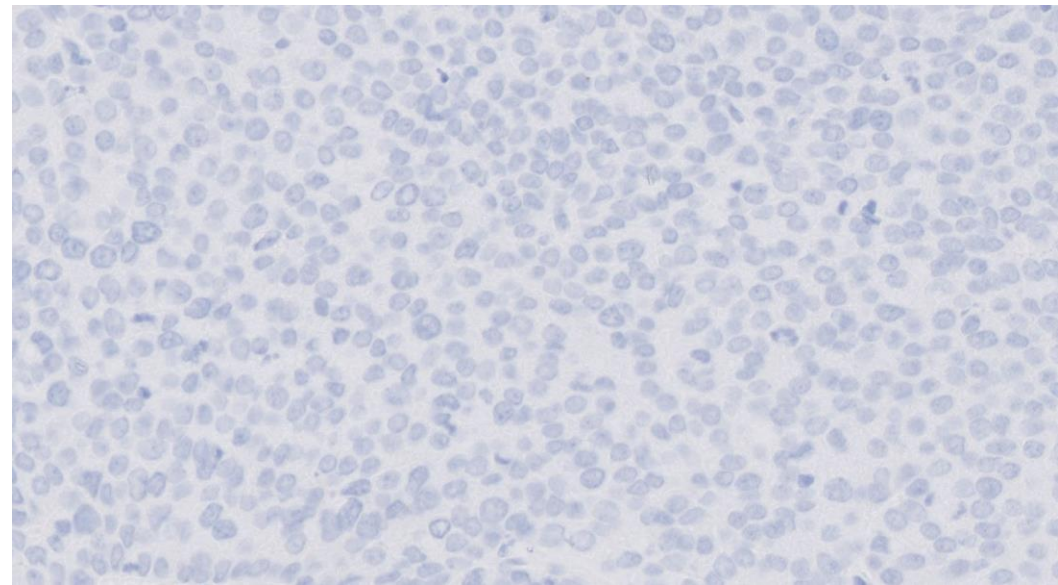
PAX8

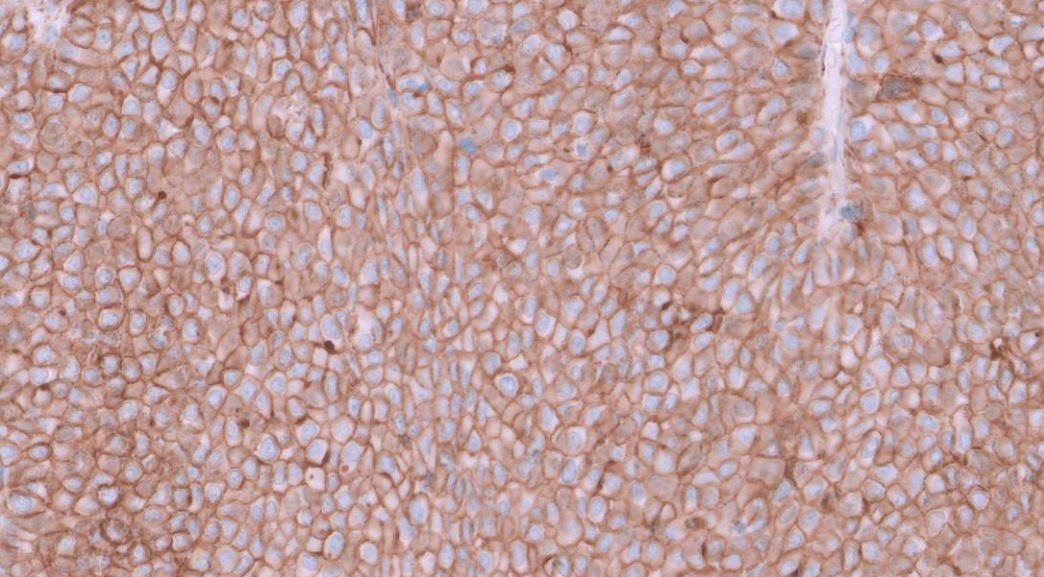
Arginase1



HEPPAR1

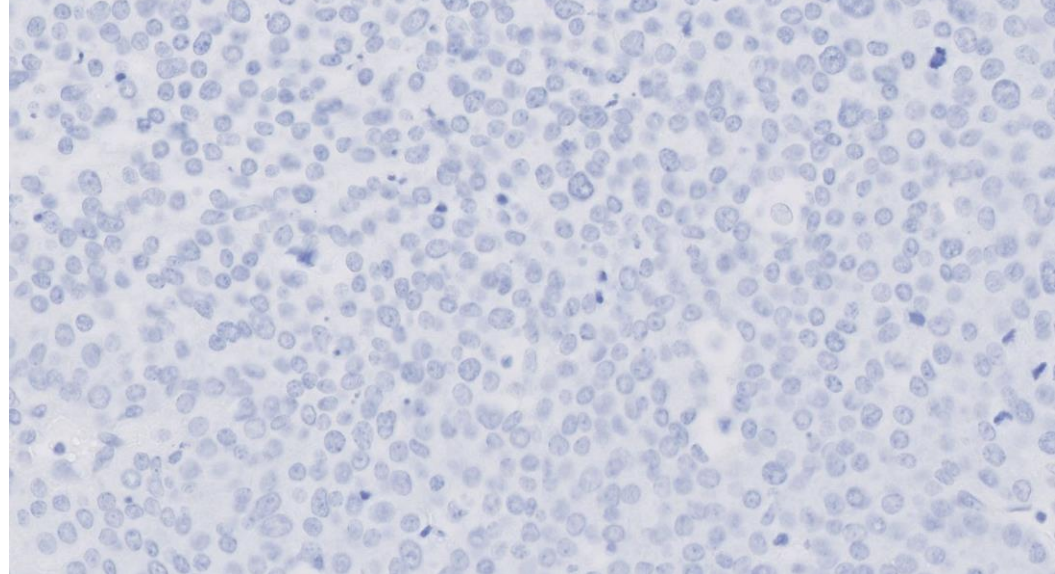
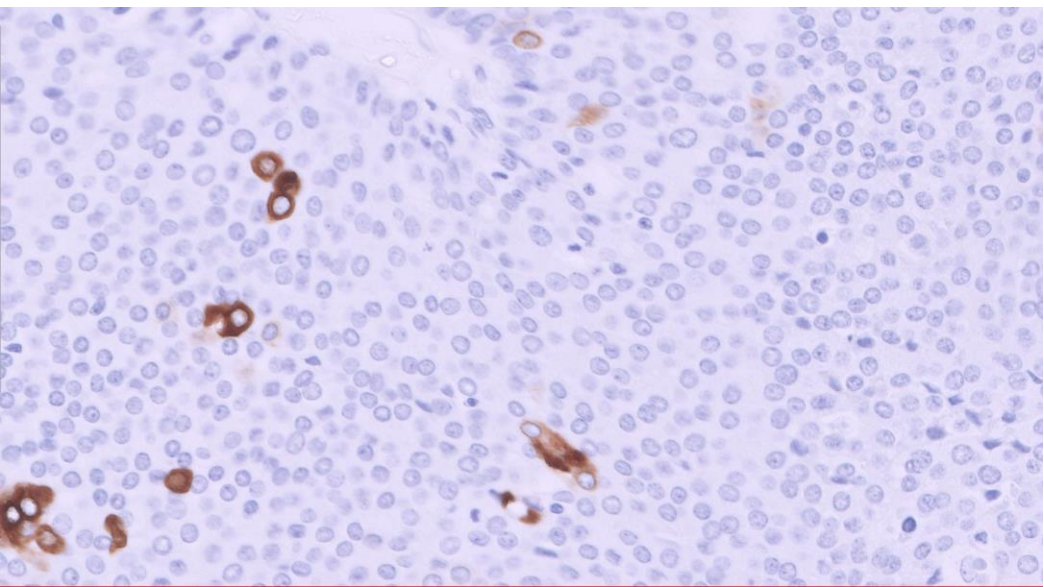
Glypican3





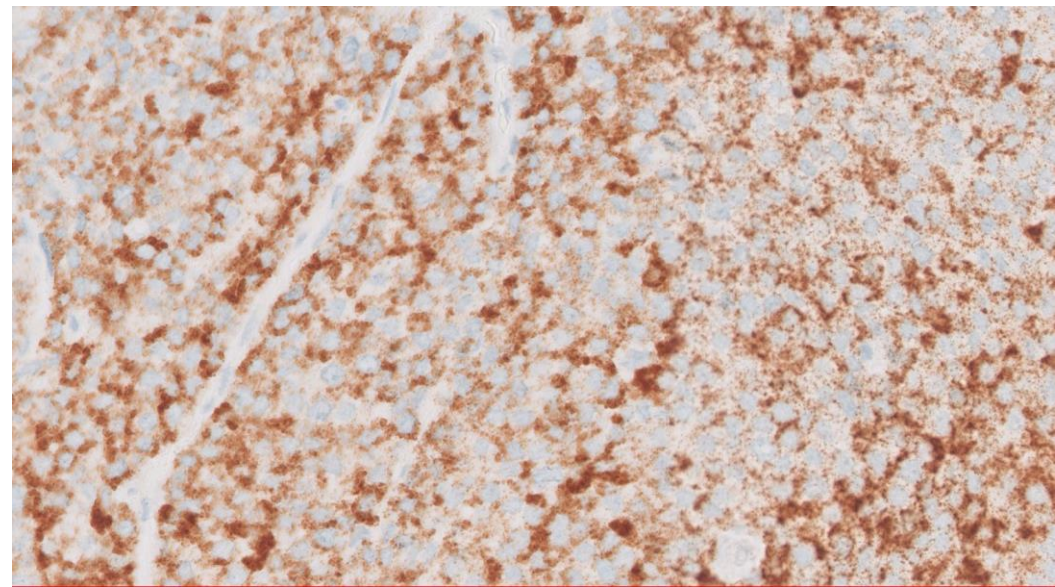
Beta-Catenin

CK7



S100

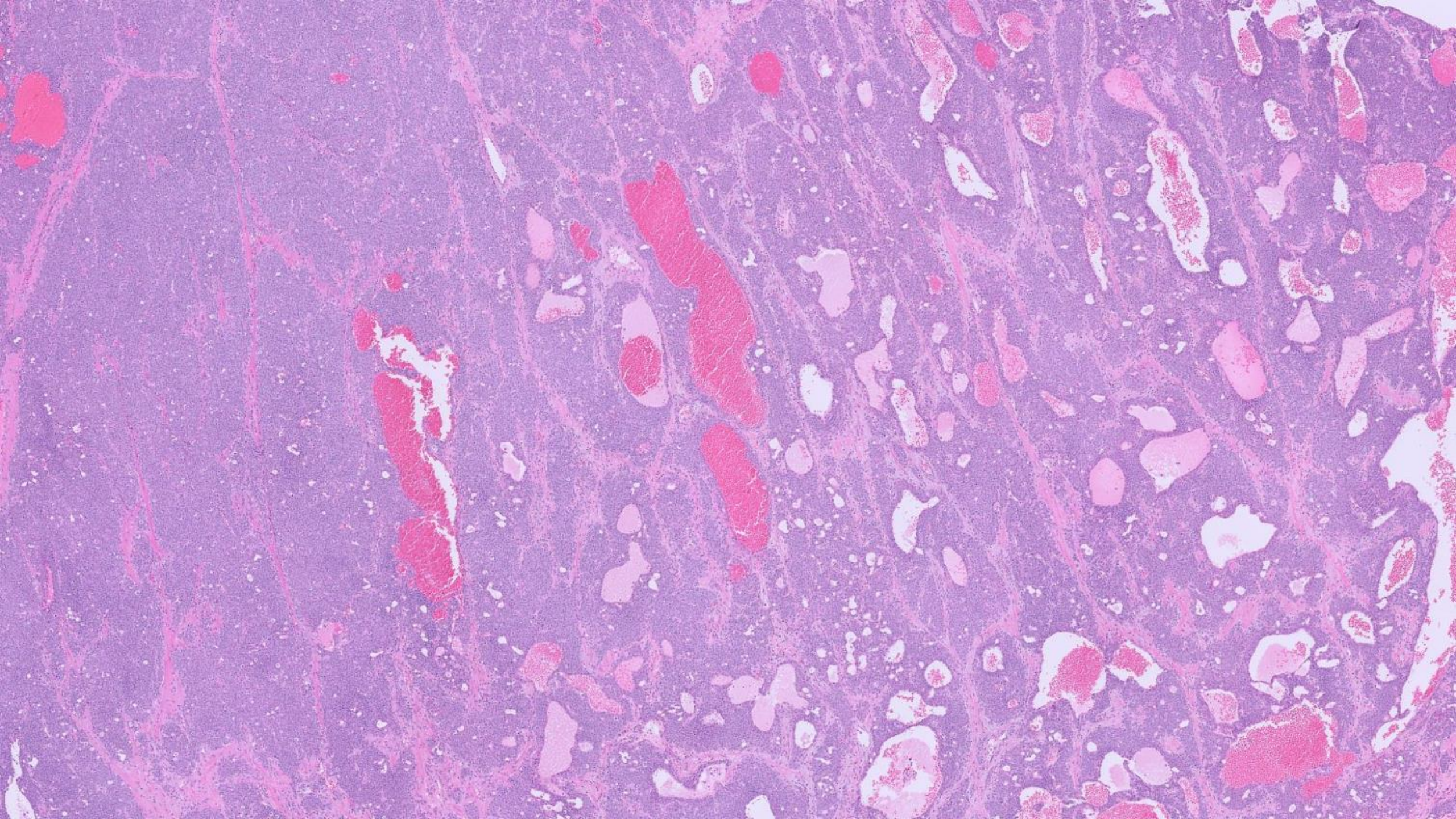
Albumin ISH

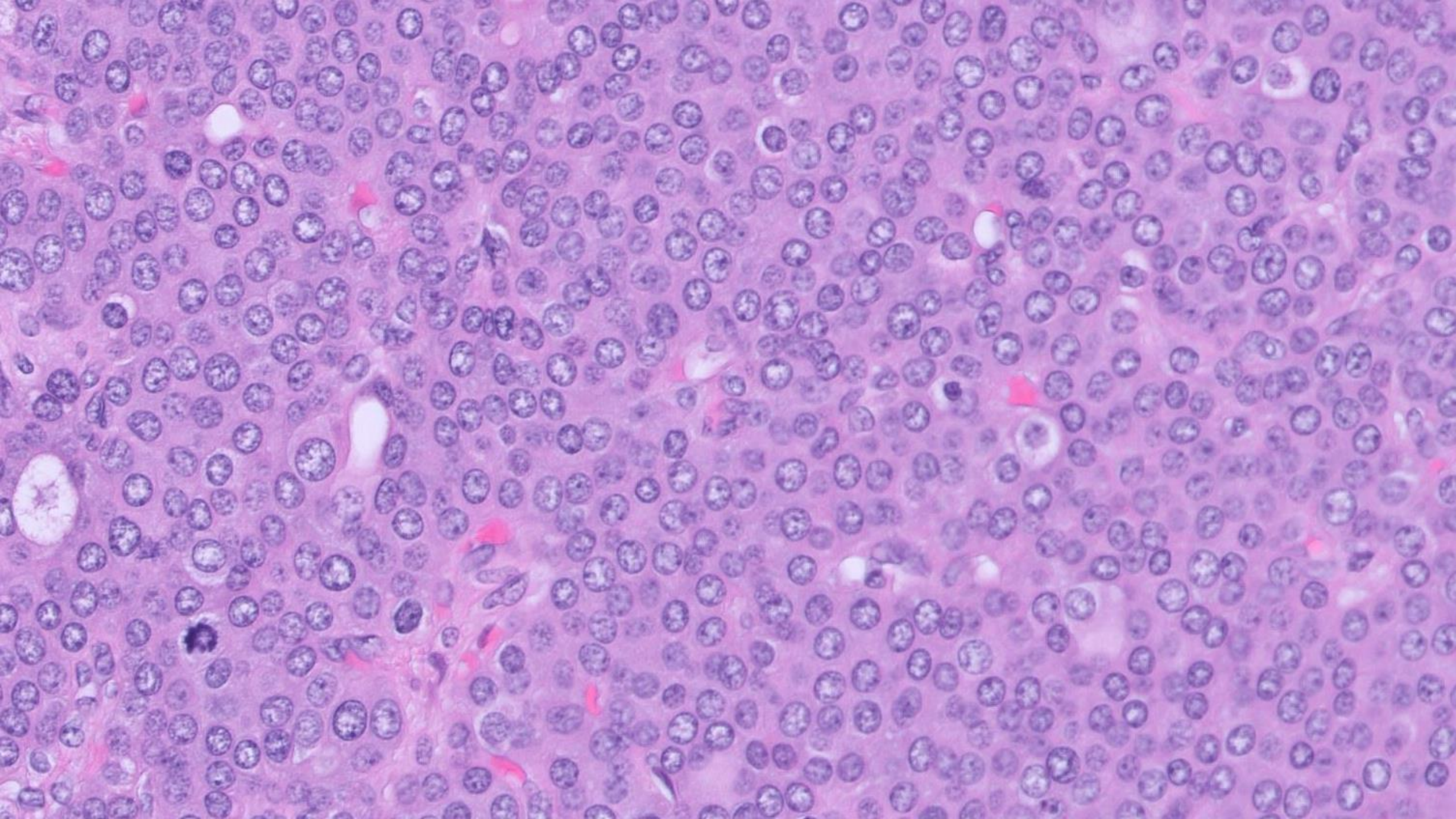


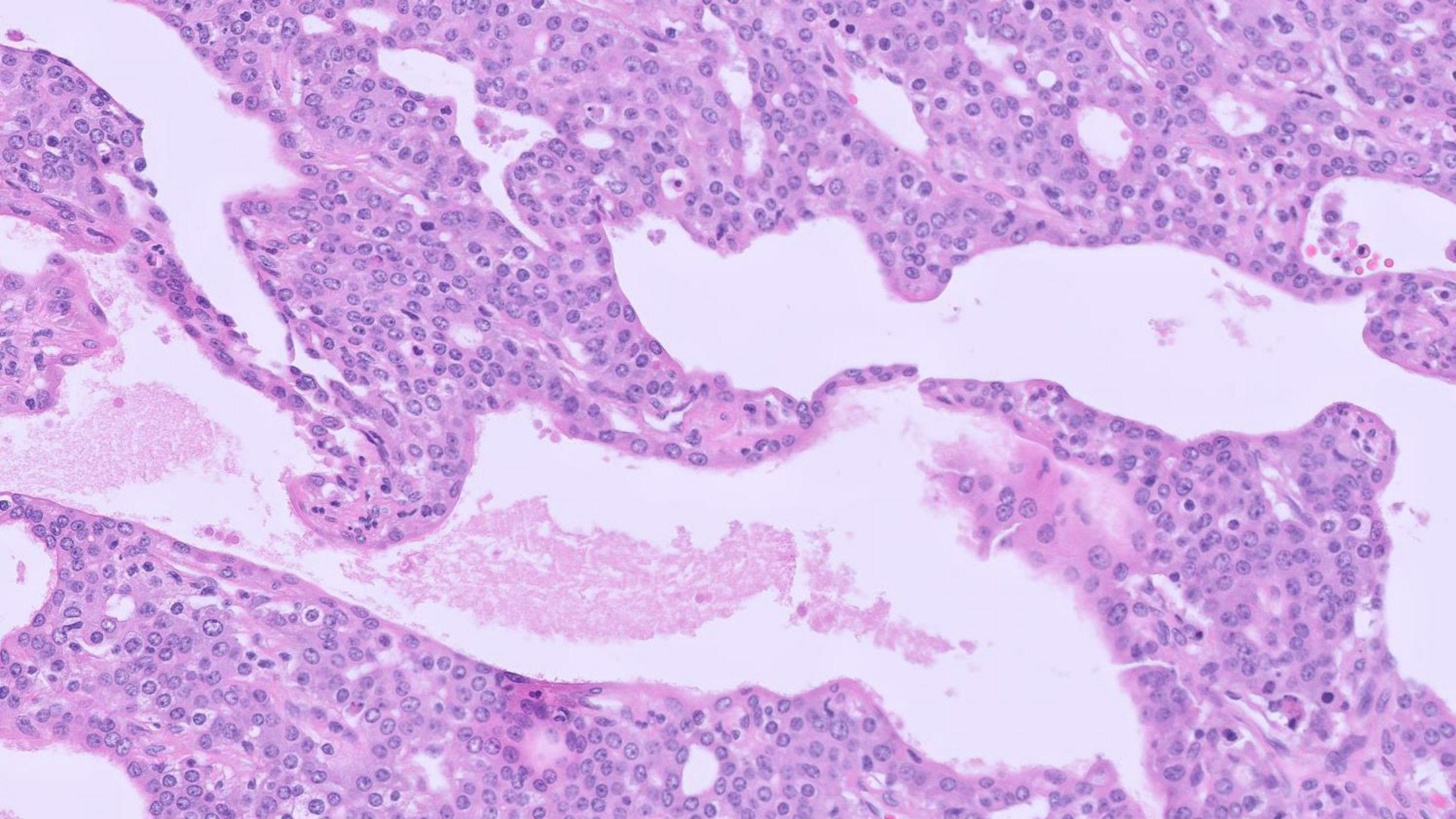
Clinical History of second case

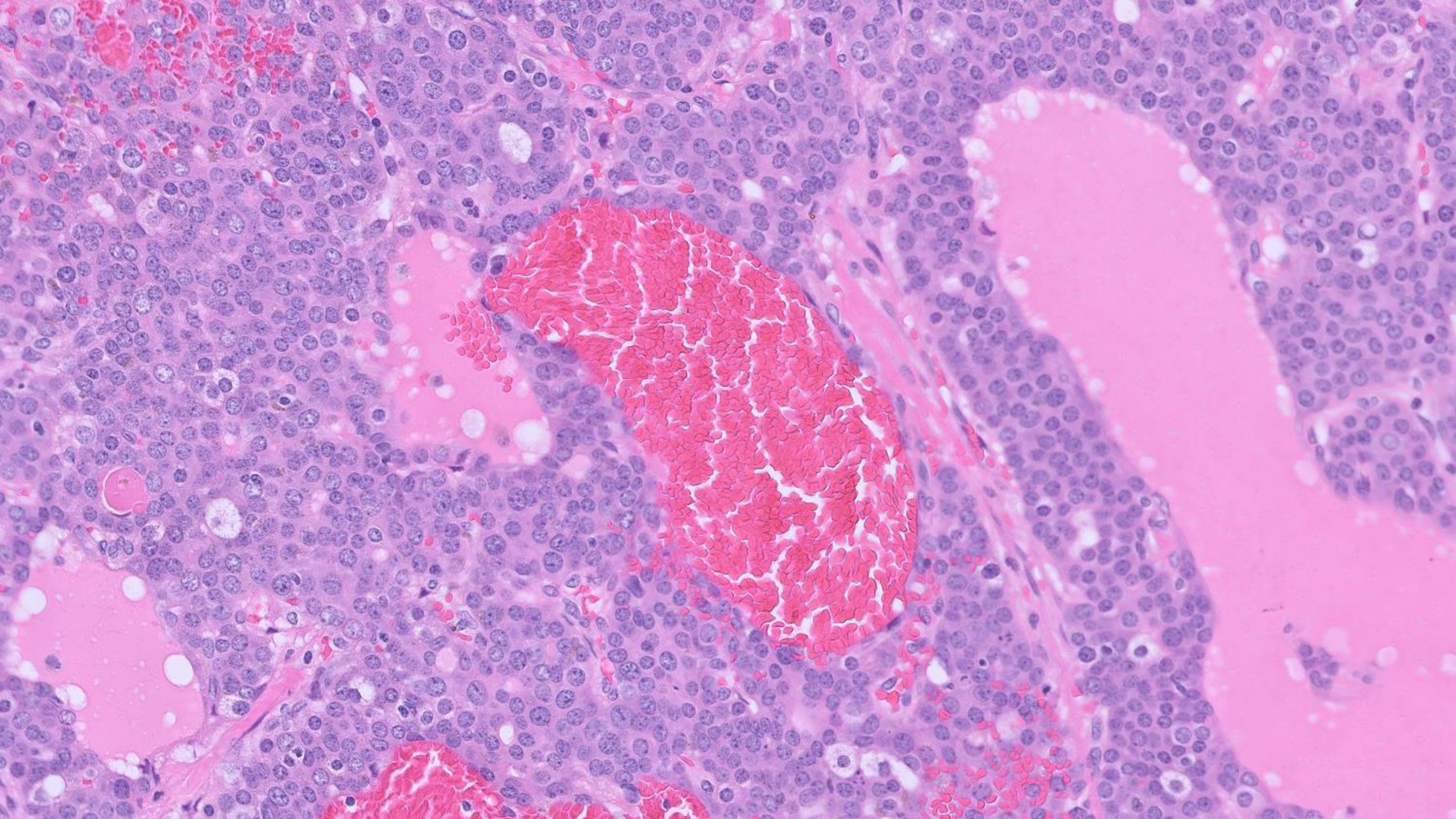
- Mid 20's female on oral contraceptives presenting with a large left-sided hepatic lesion. Lesion was 3.7 cm in 2021 with increase to 7.4 cm in 2024, probable hepatic adenoma by CT-scan.
- ➔ Undergoes left-sided hepatectomy

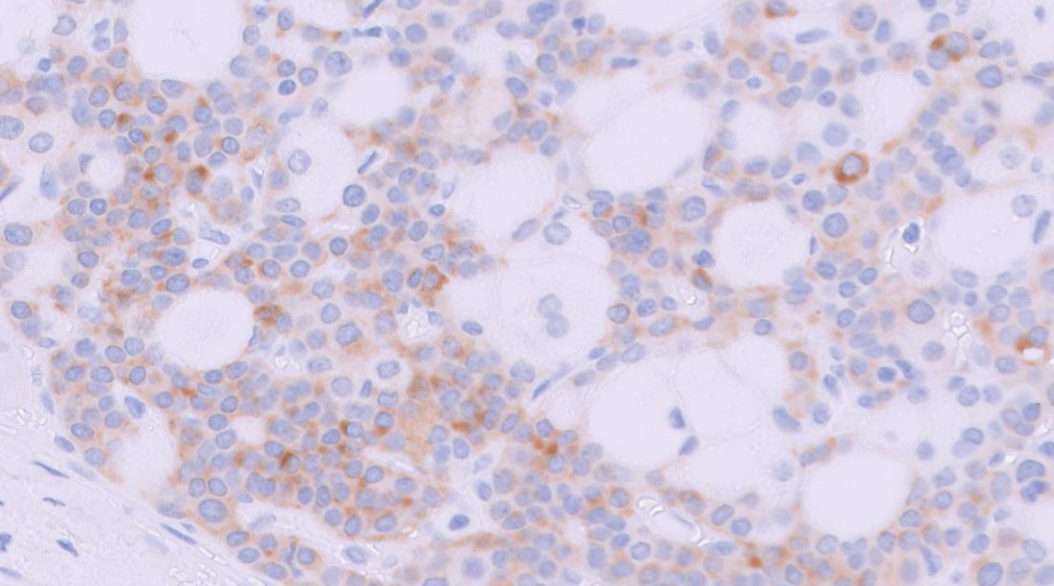




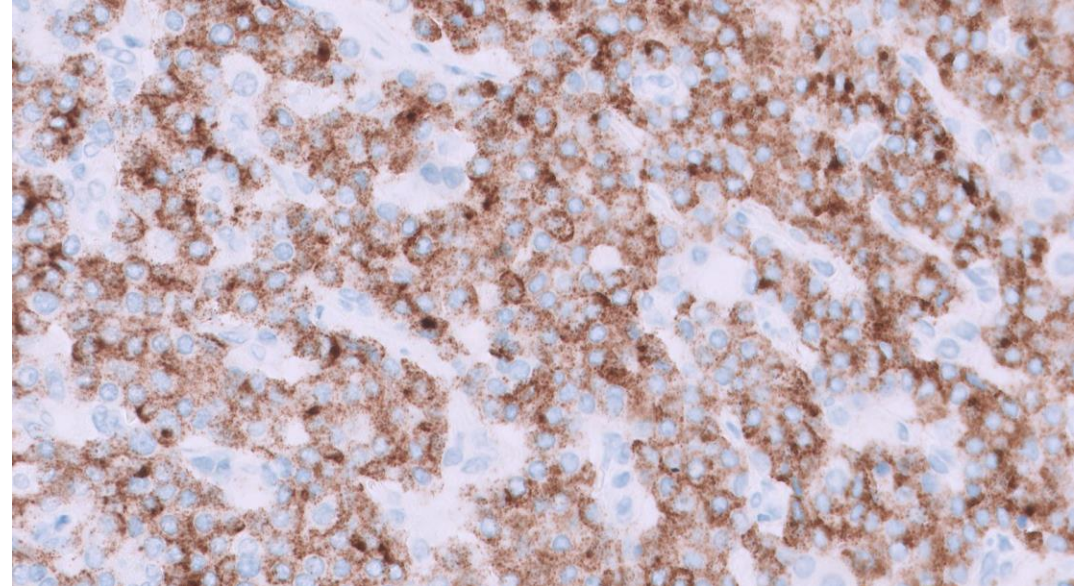






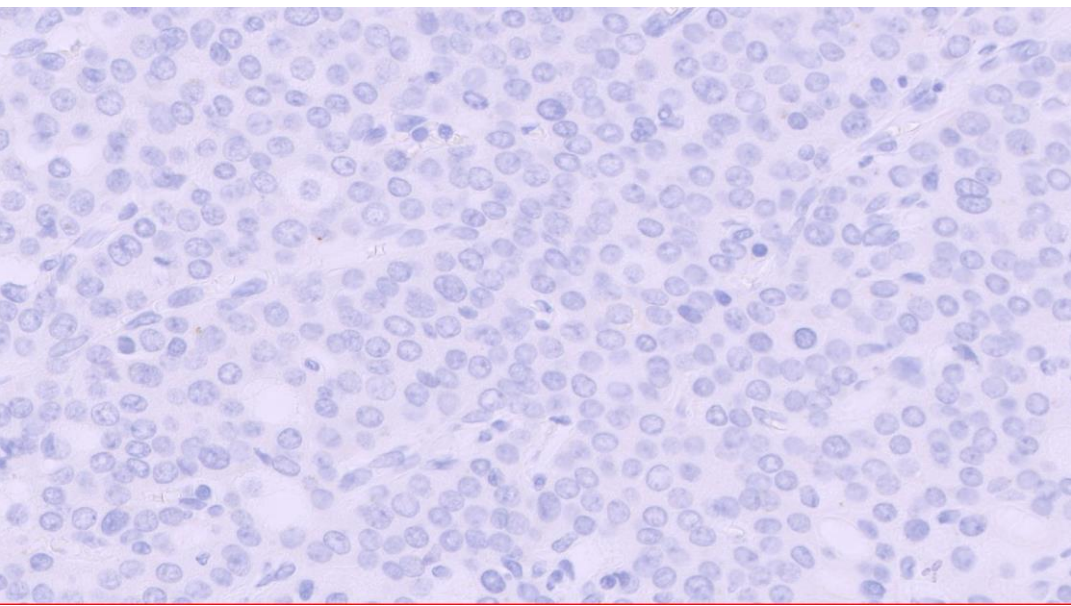


Synaptophysin

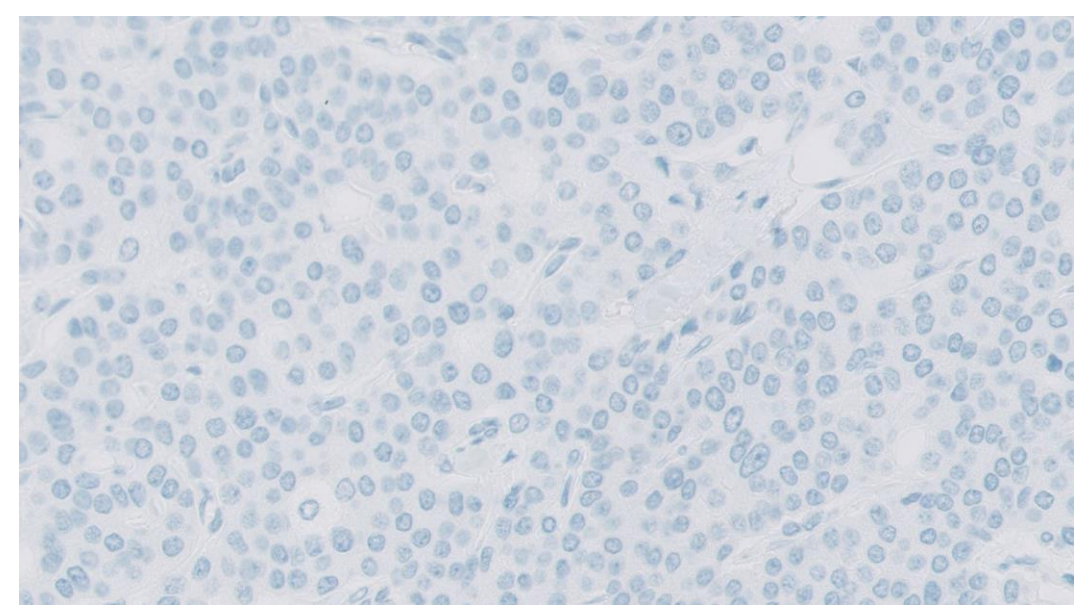


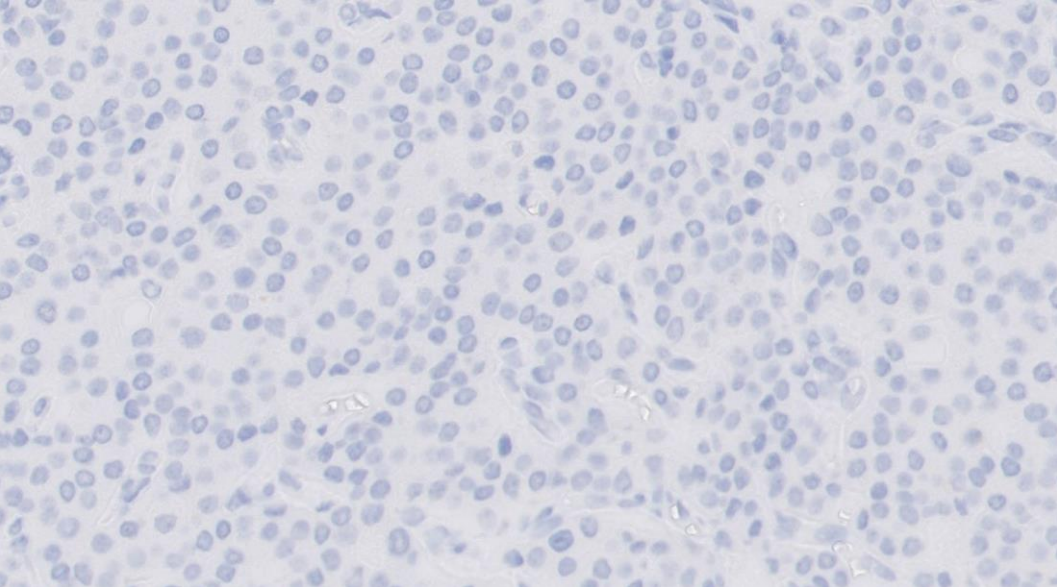
Chromogranin

Glipican-3



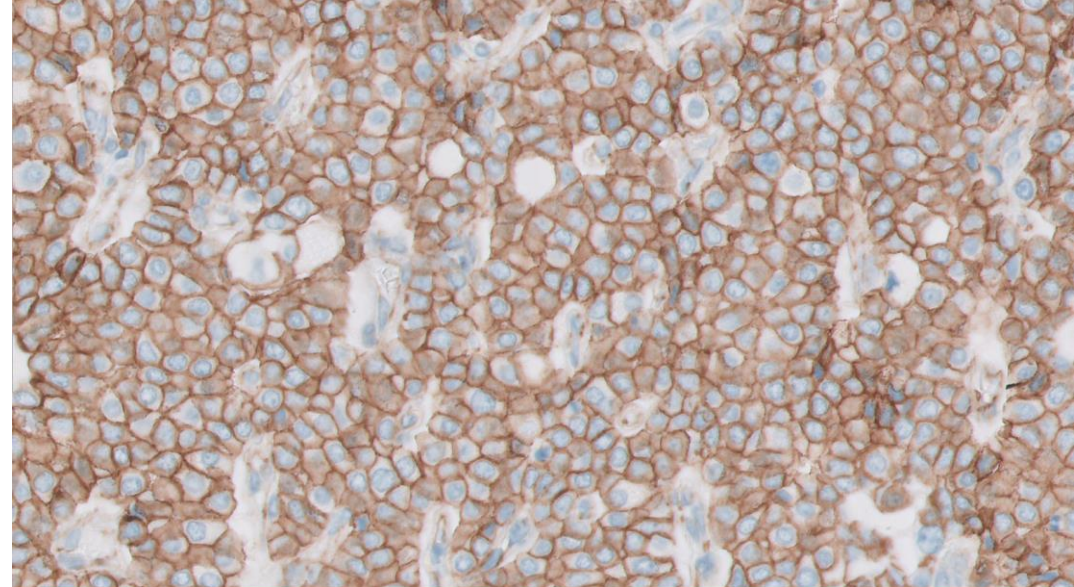
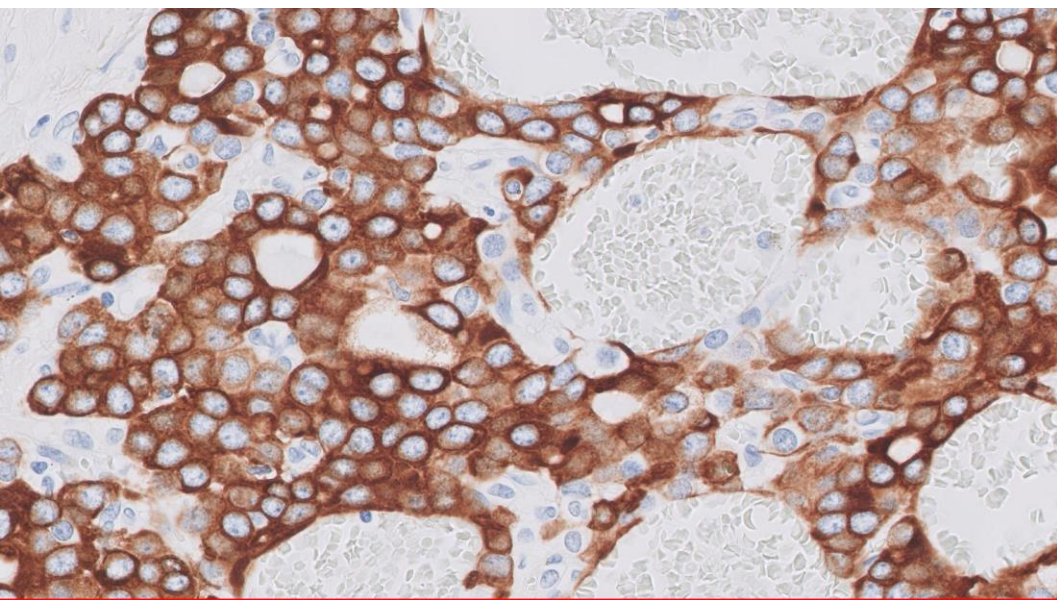
HEPPAR1





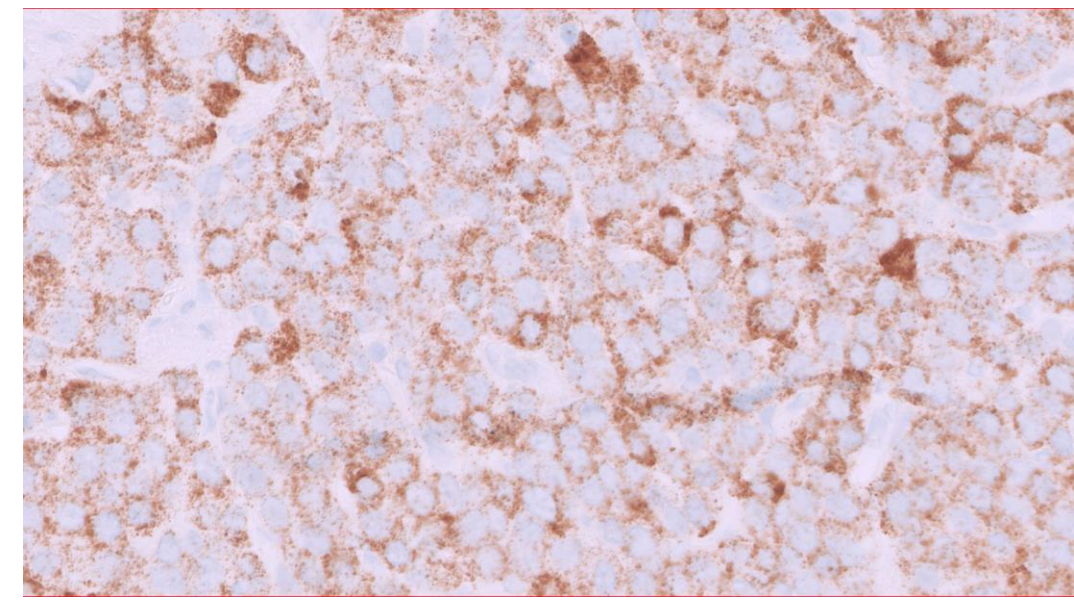
Arginase-1

CK7



Beta-Catenin

Albumin ISH



DIAGNOSES?

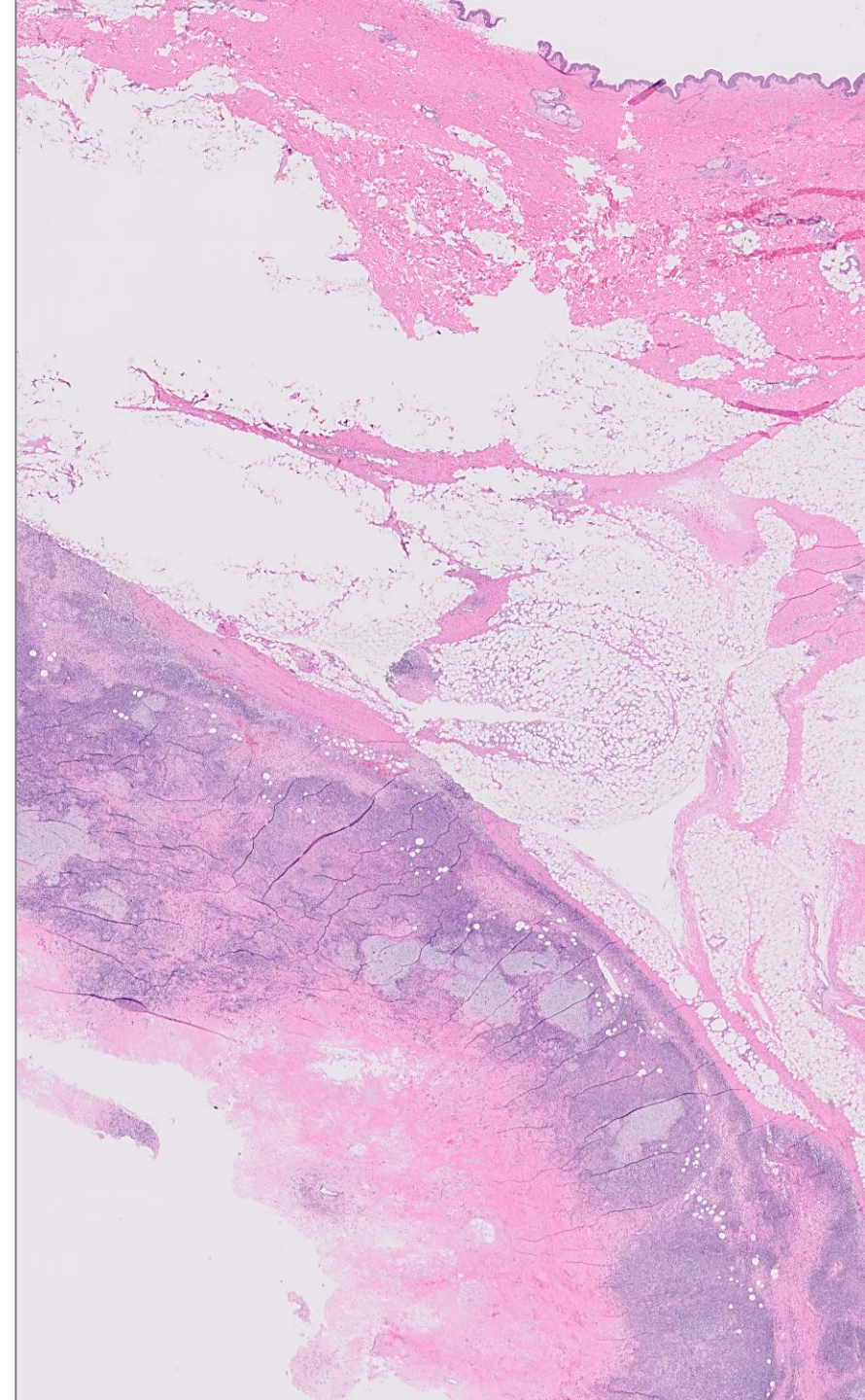
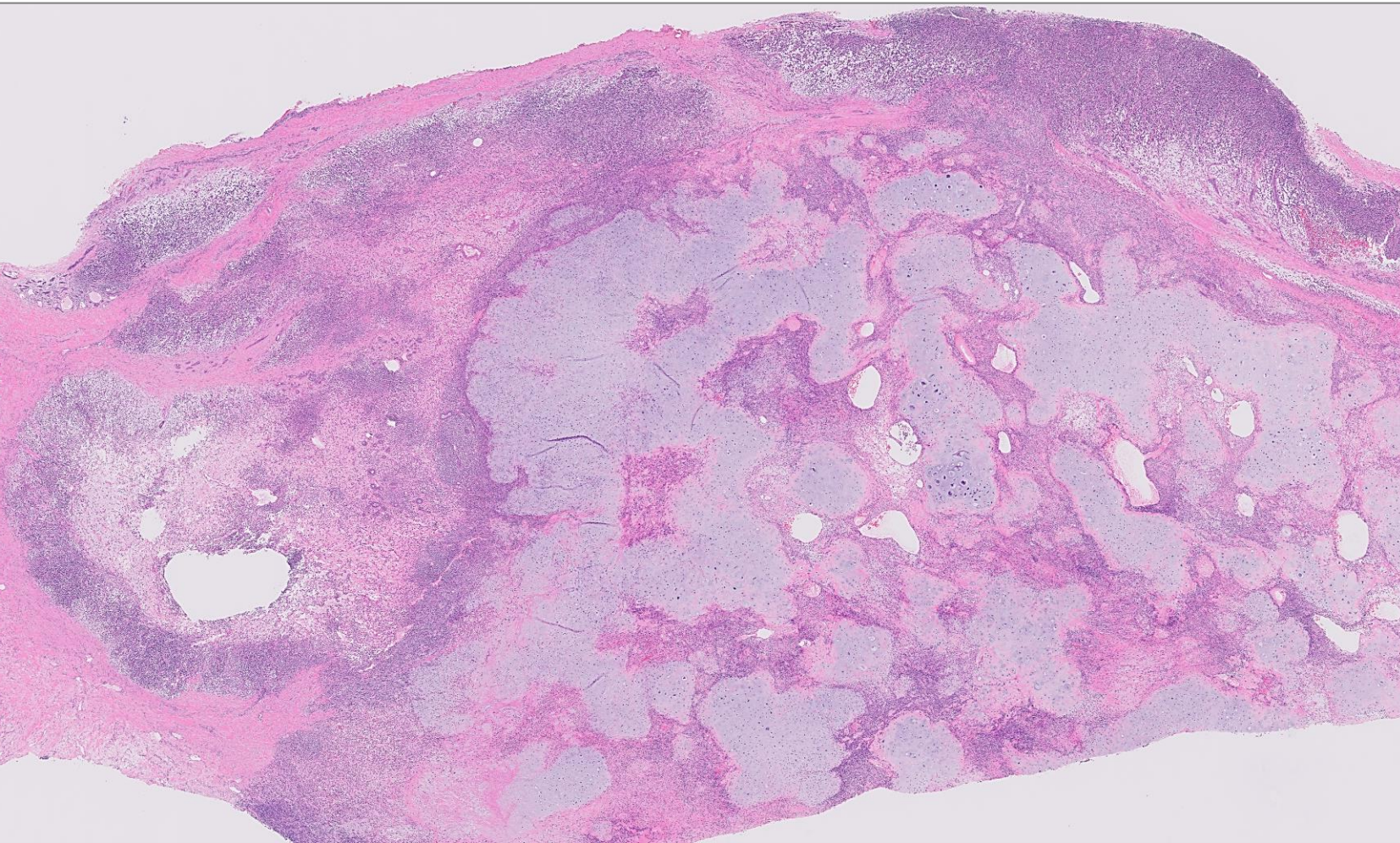


25-0405

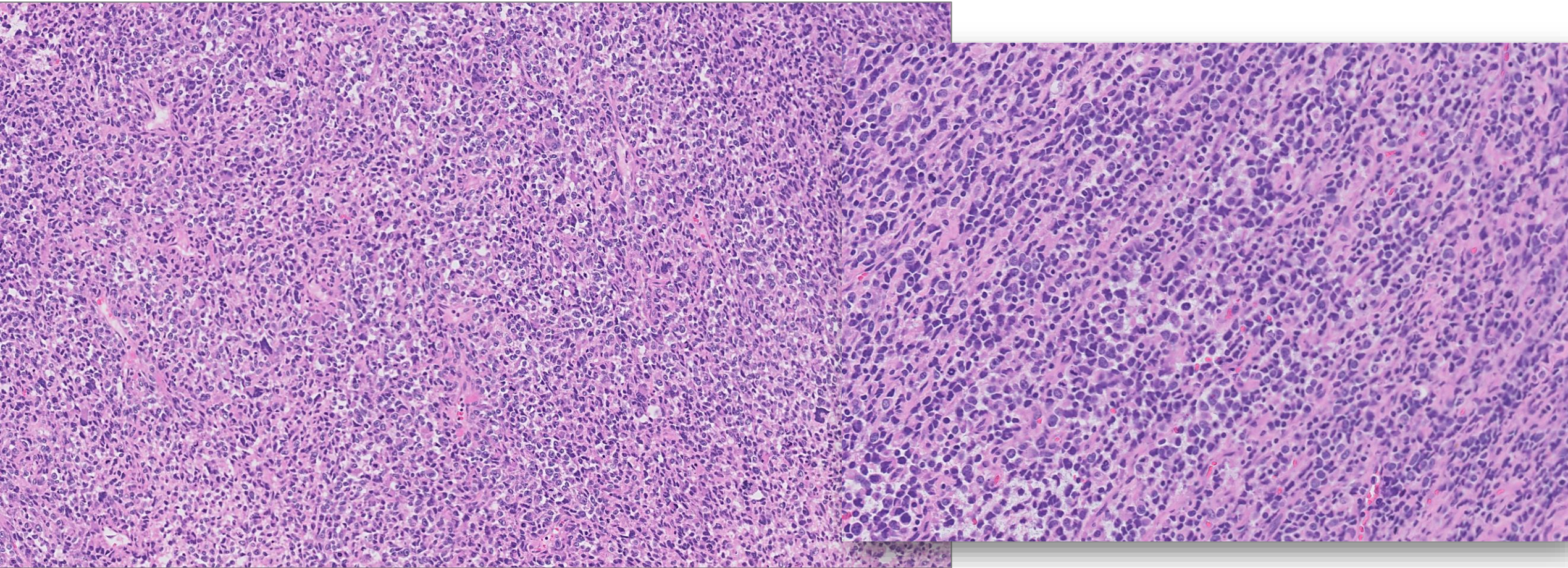
Joanna Solarewicz, Greg Bean; Stanford

29-year-old postpartum female with right breast mass. Prior biopsy showed fibroadenoma in 2020 (not reviewed at Stanford or by referring pathologist). The mass has increased size and now measures 7 cm. She underwent a mastectomy in August of 2023.

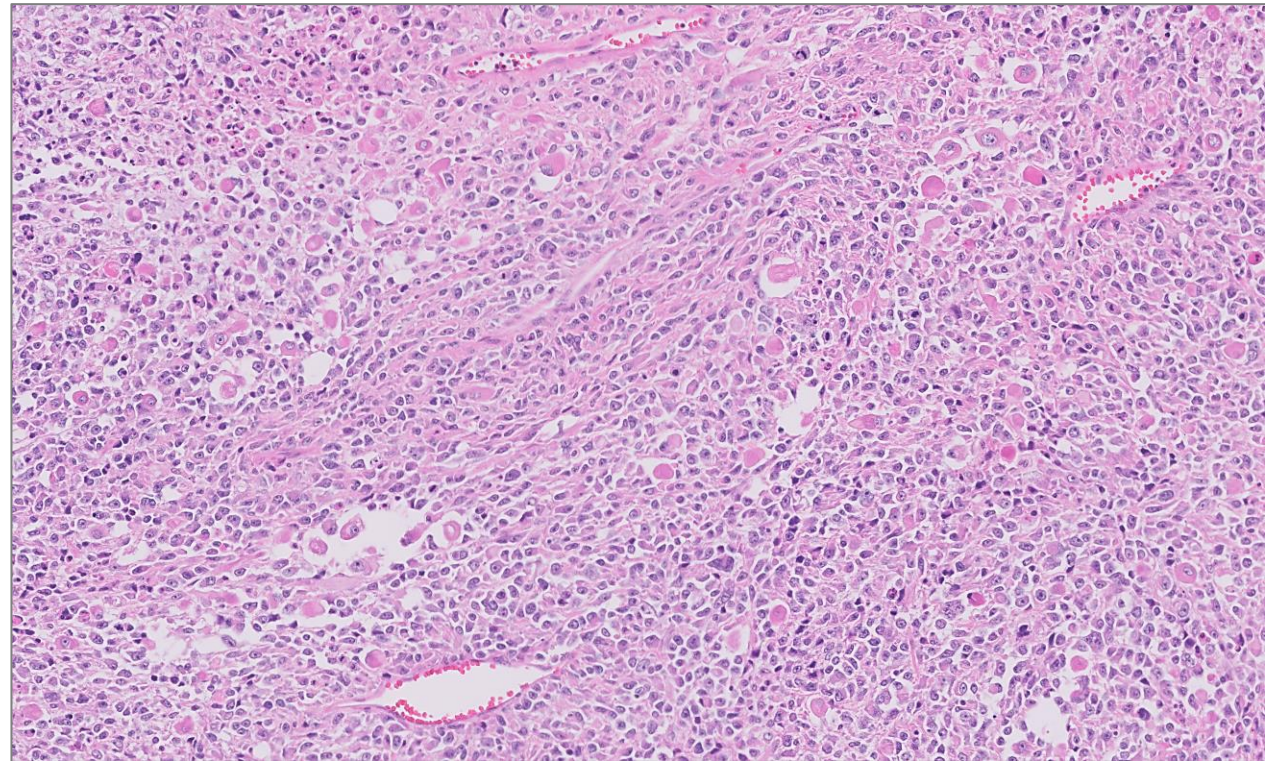
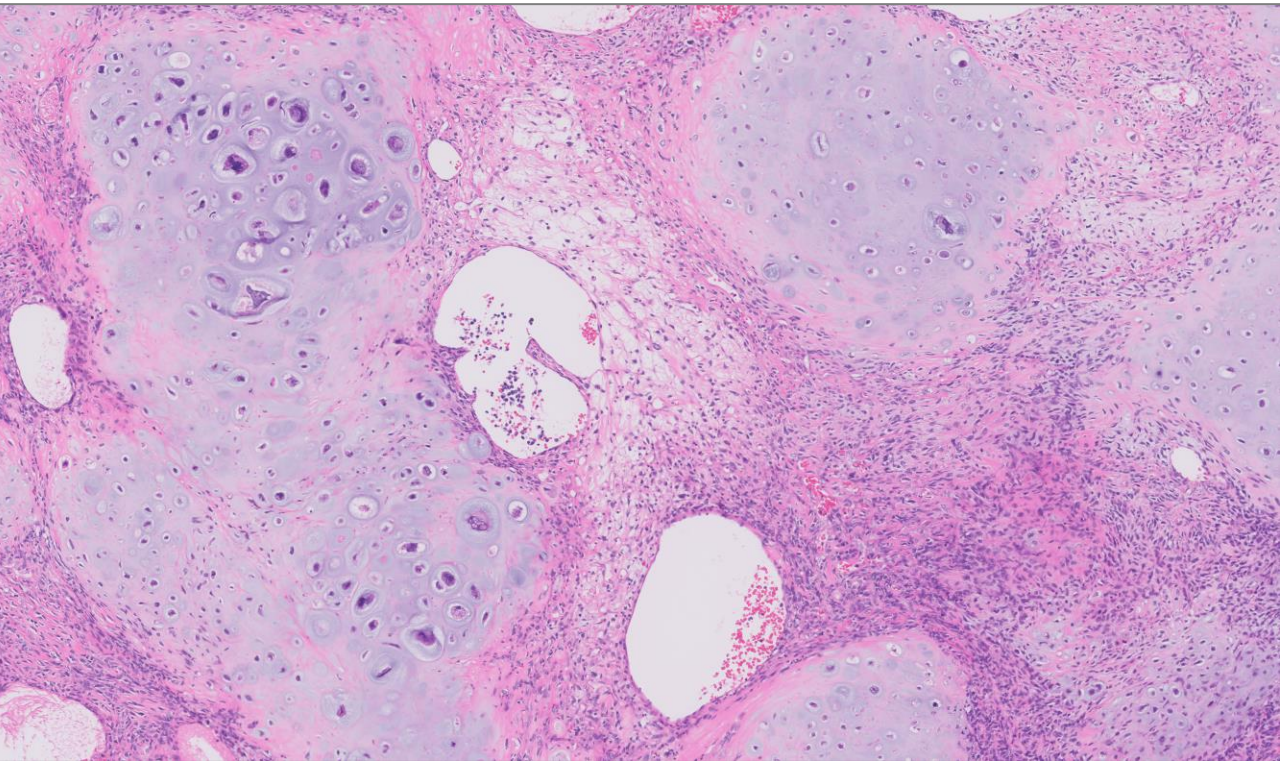
H&E Sections



H&E Sections

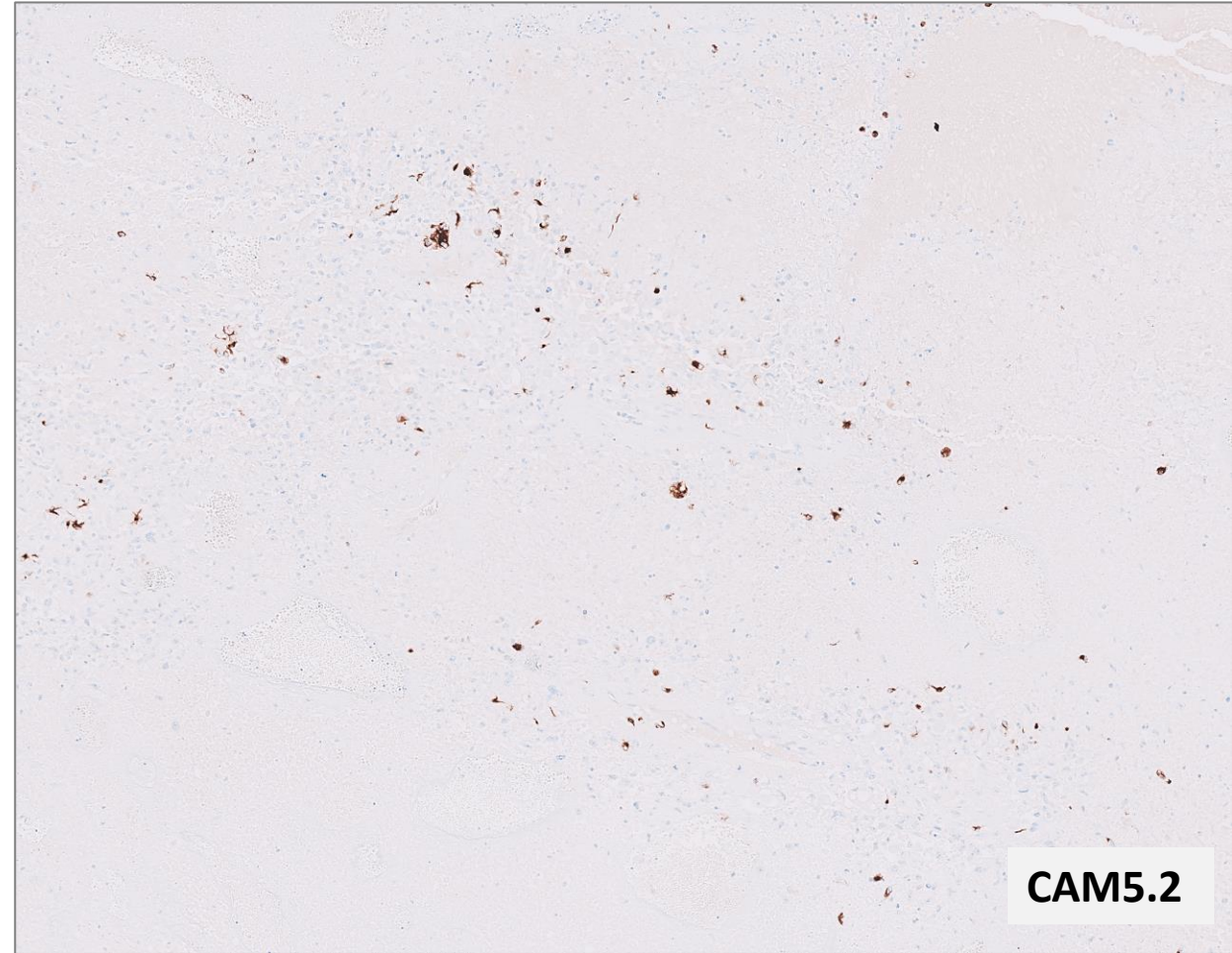


H&E Sections

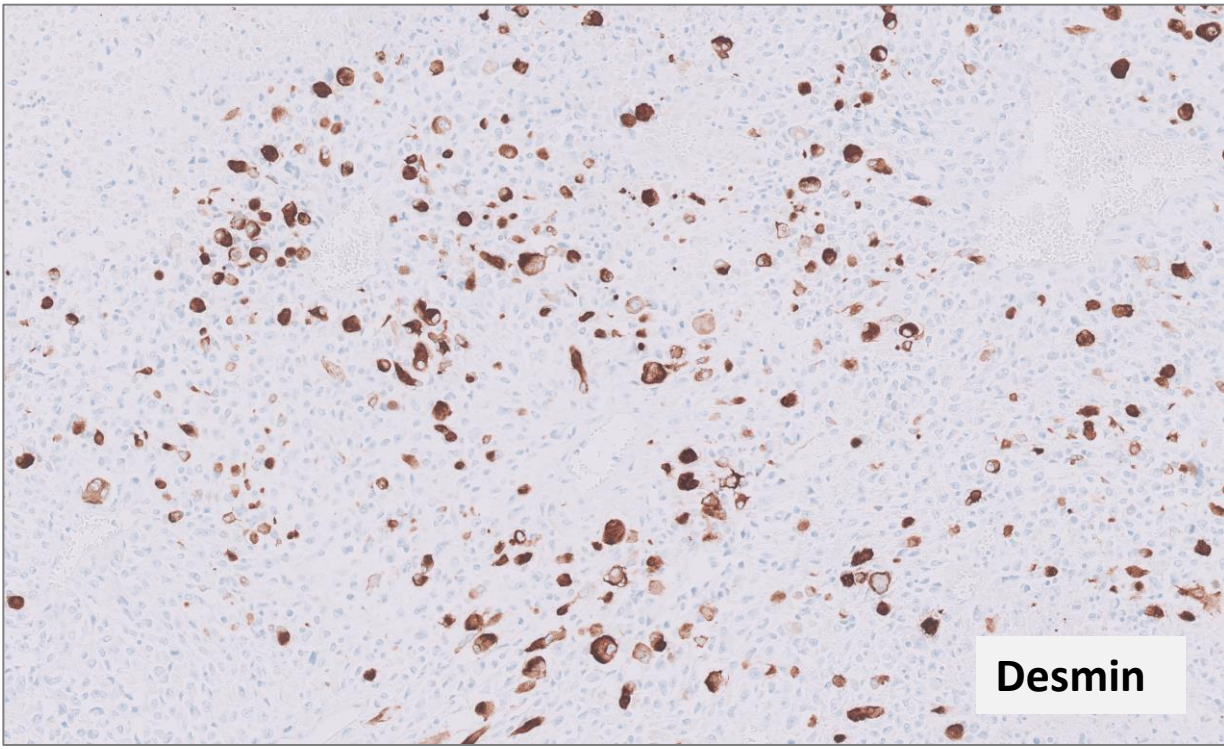
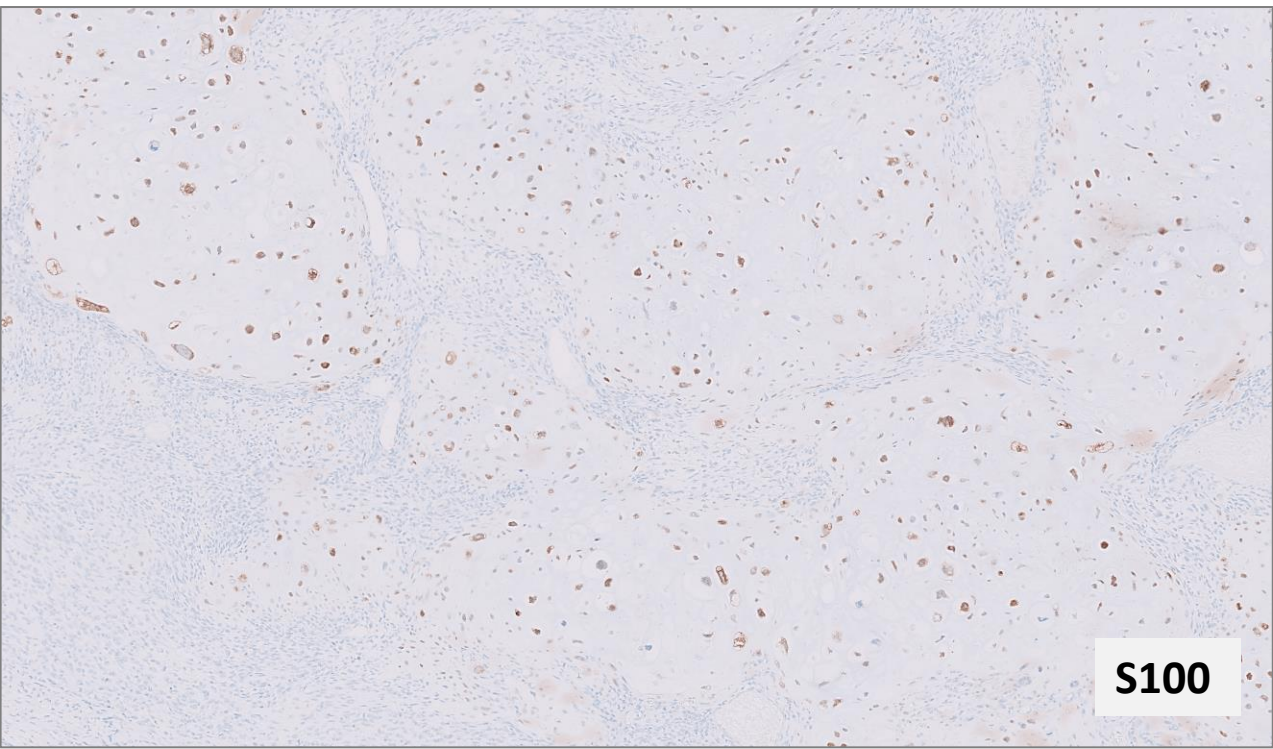


IHC

- Pan-keratin – Negative
- CAM5.2 and CK14 – Focally Positive
- P63 – Rare Positive
- CD34 – Negative
- Desmin – Focally Positive
- S100 – Focally Positive



IHC



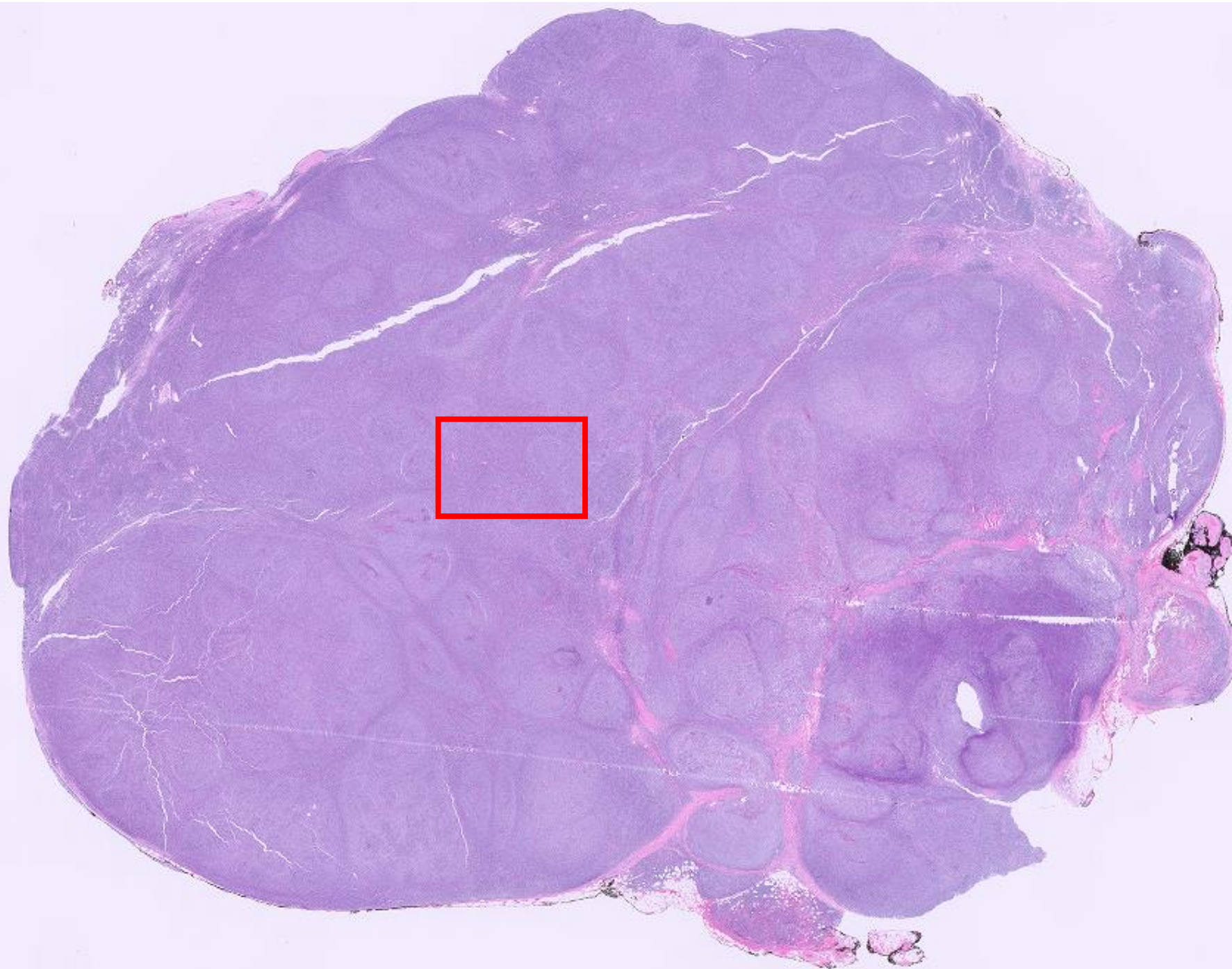
DIAGNOSIS?

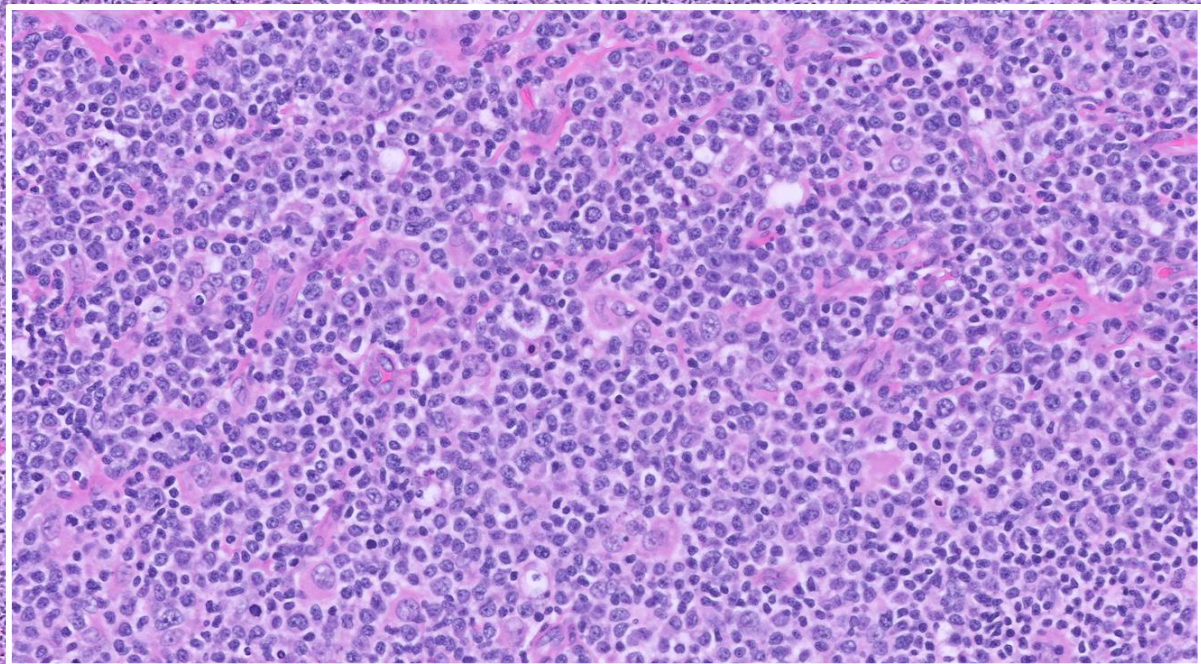
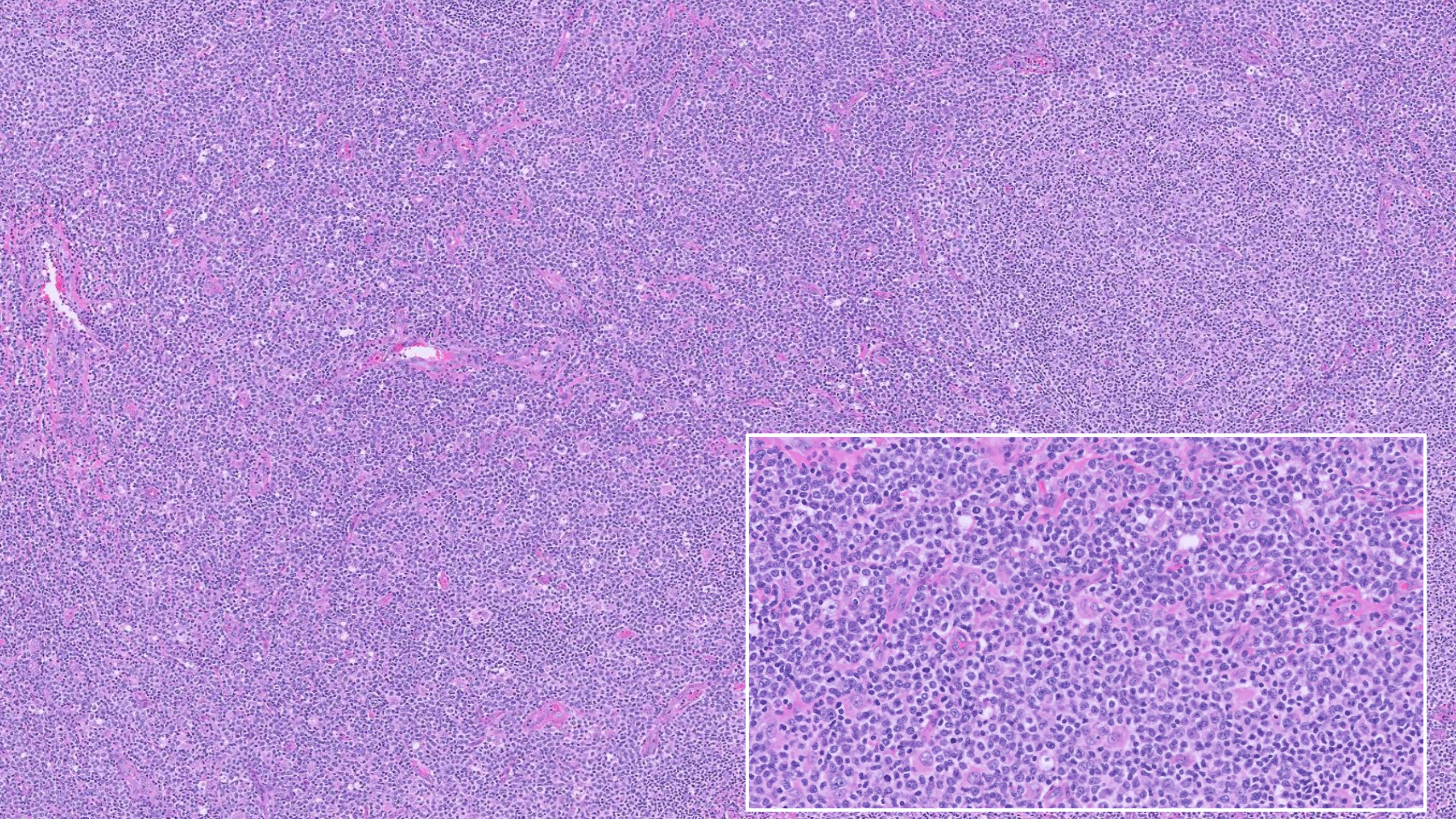


25-0406

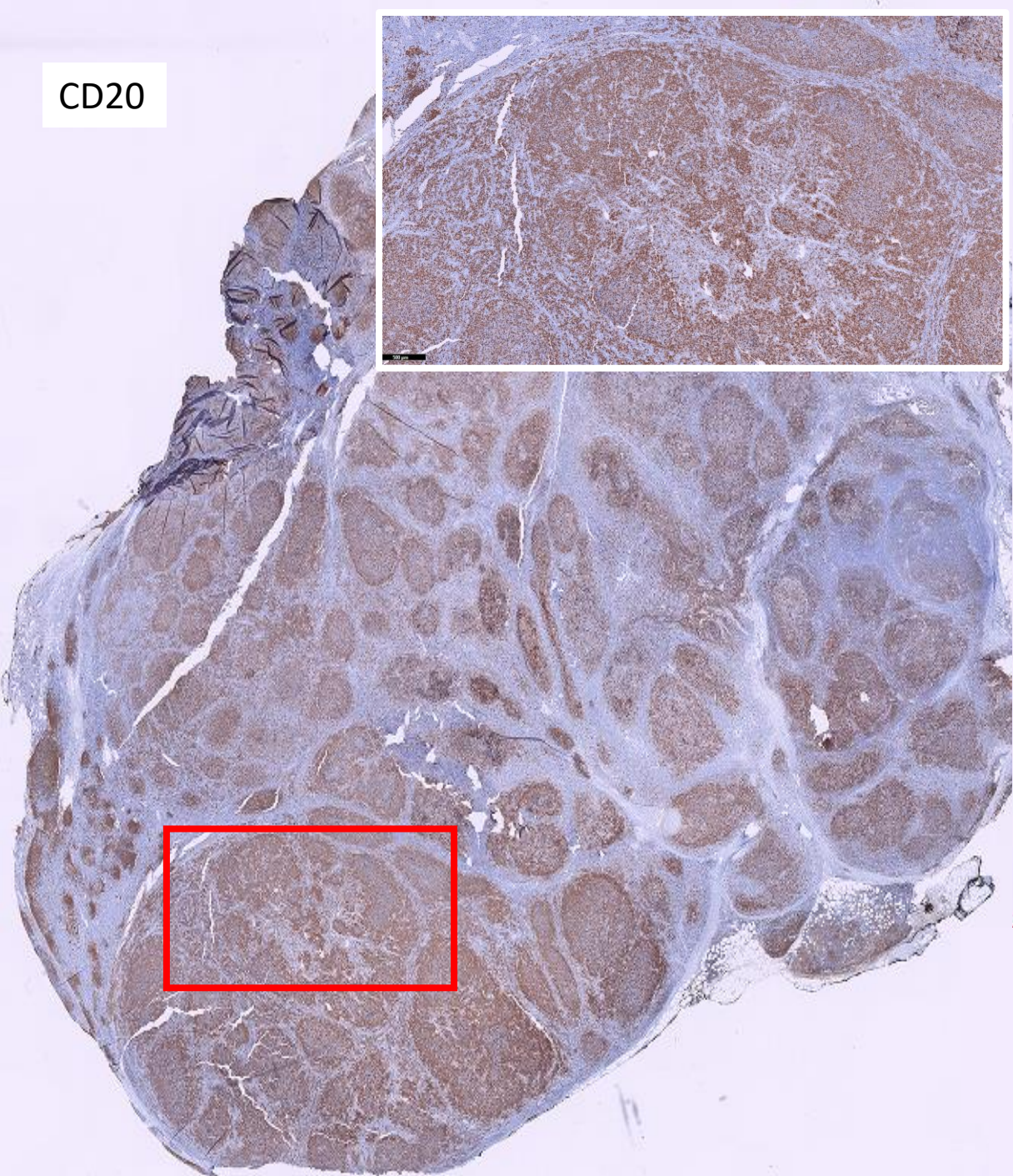
Parnaz Daneshpajouhnejad, Yaso Natkunam; Stanford

48 year old female with splenomegaly, lymphadenopathy, and IgM kappa M protein. Inguinal lymph node was excised.

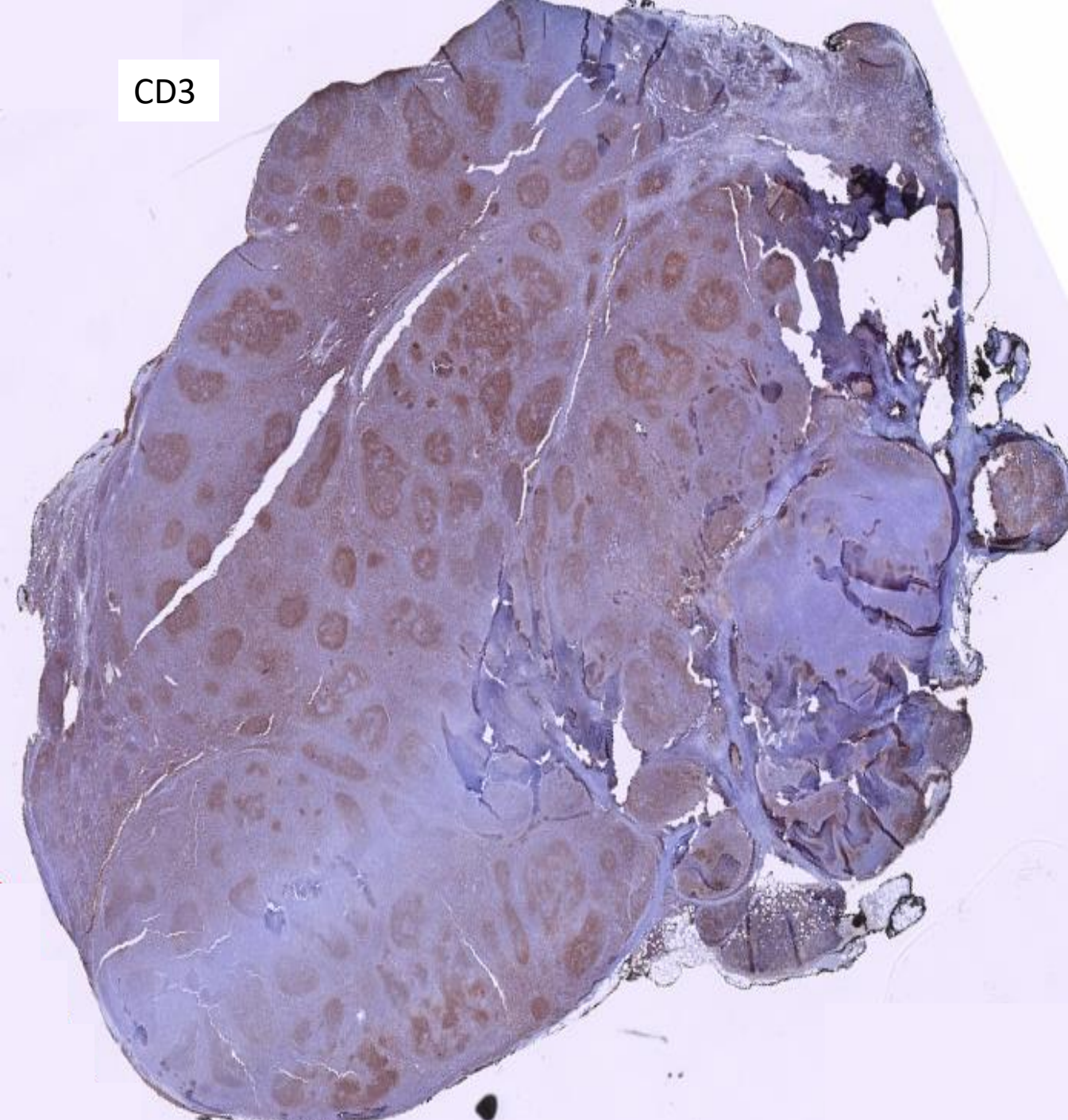




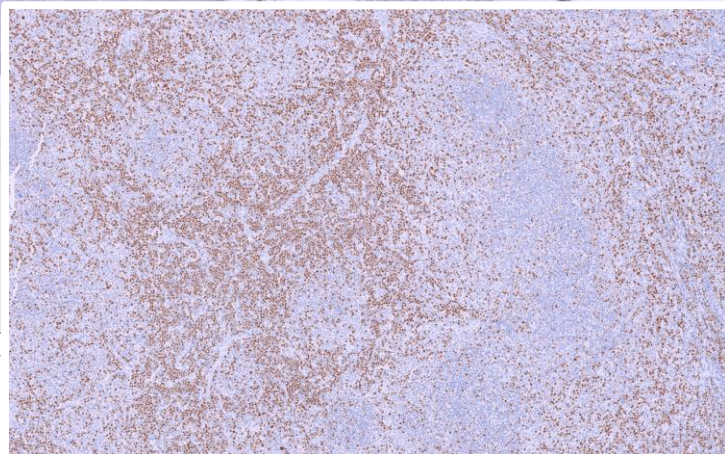
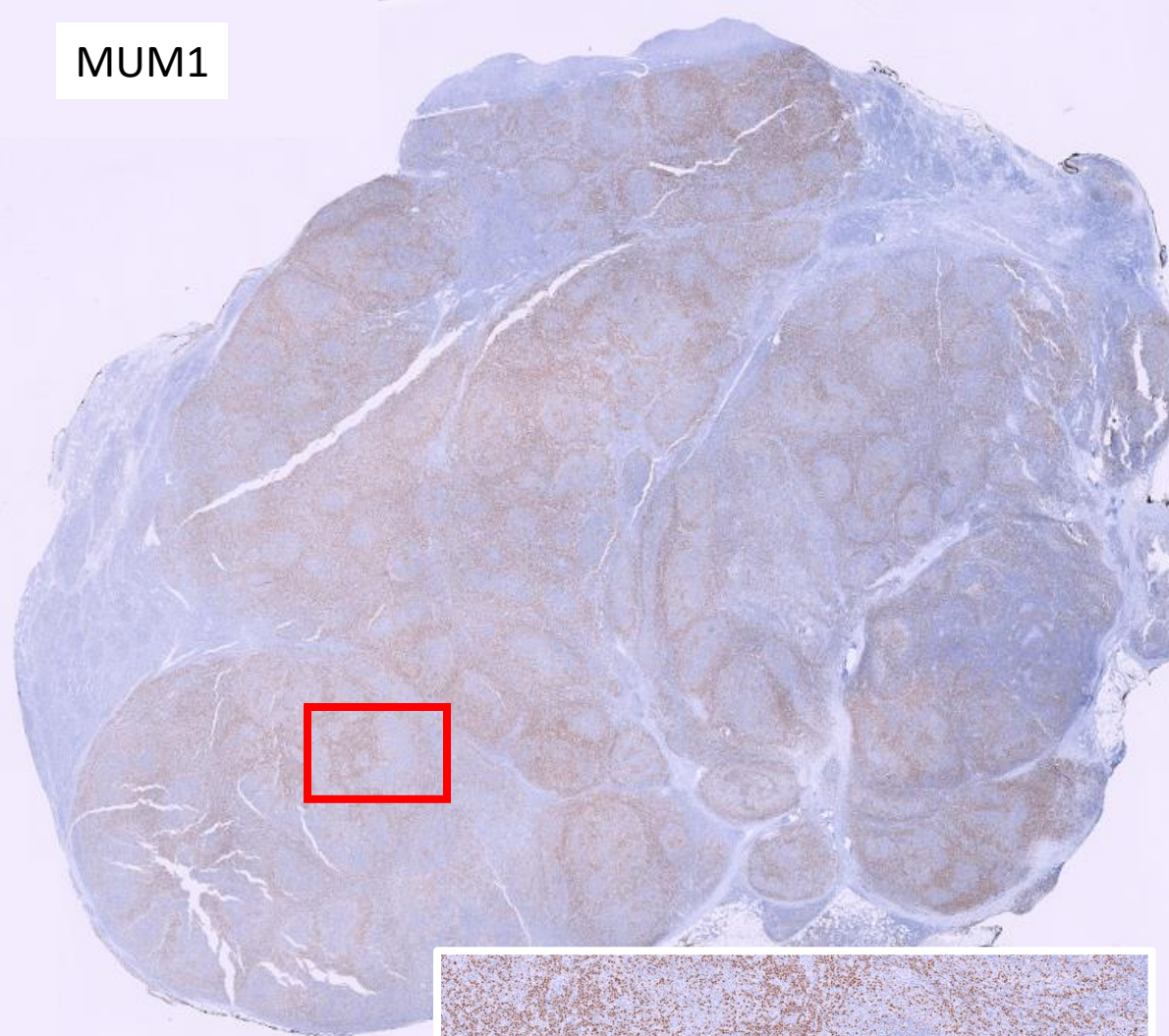
CD20



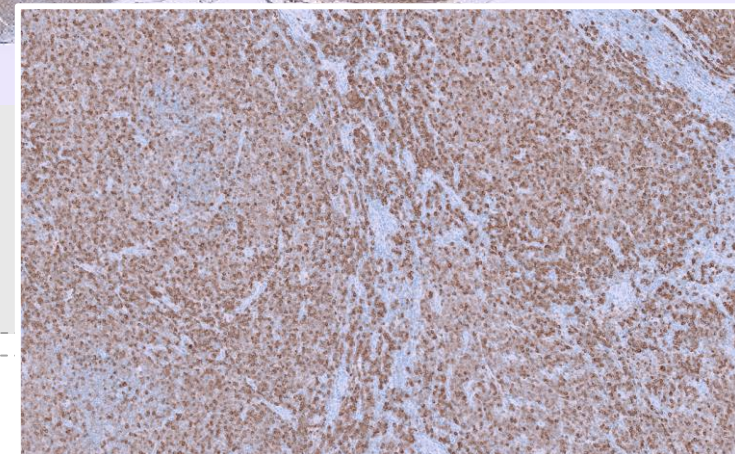
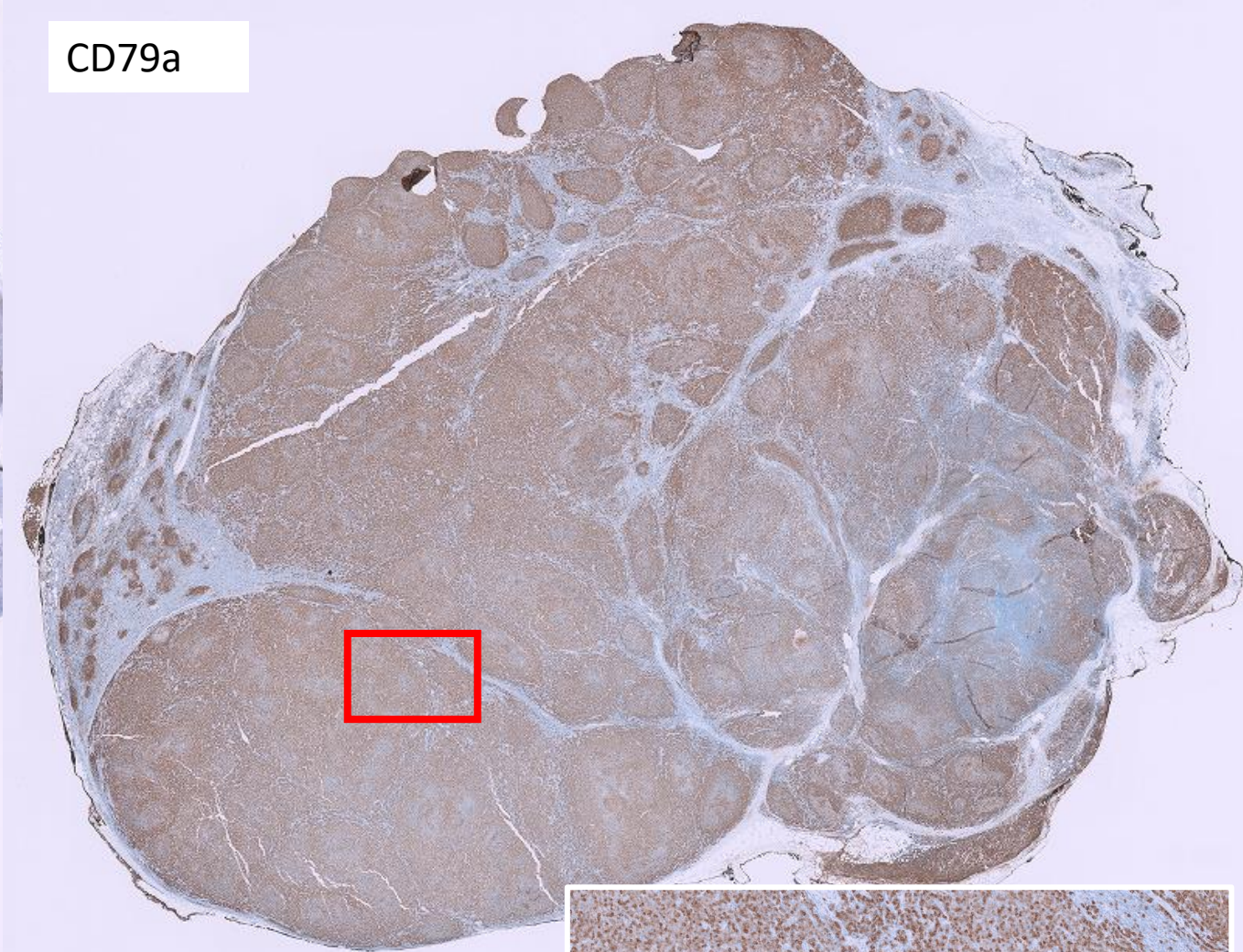
CD3



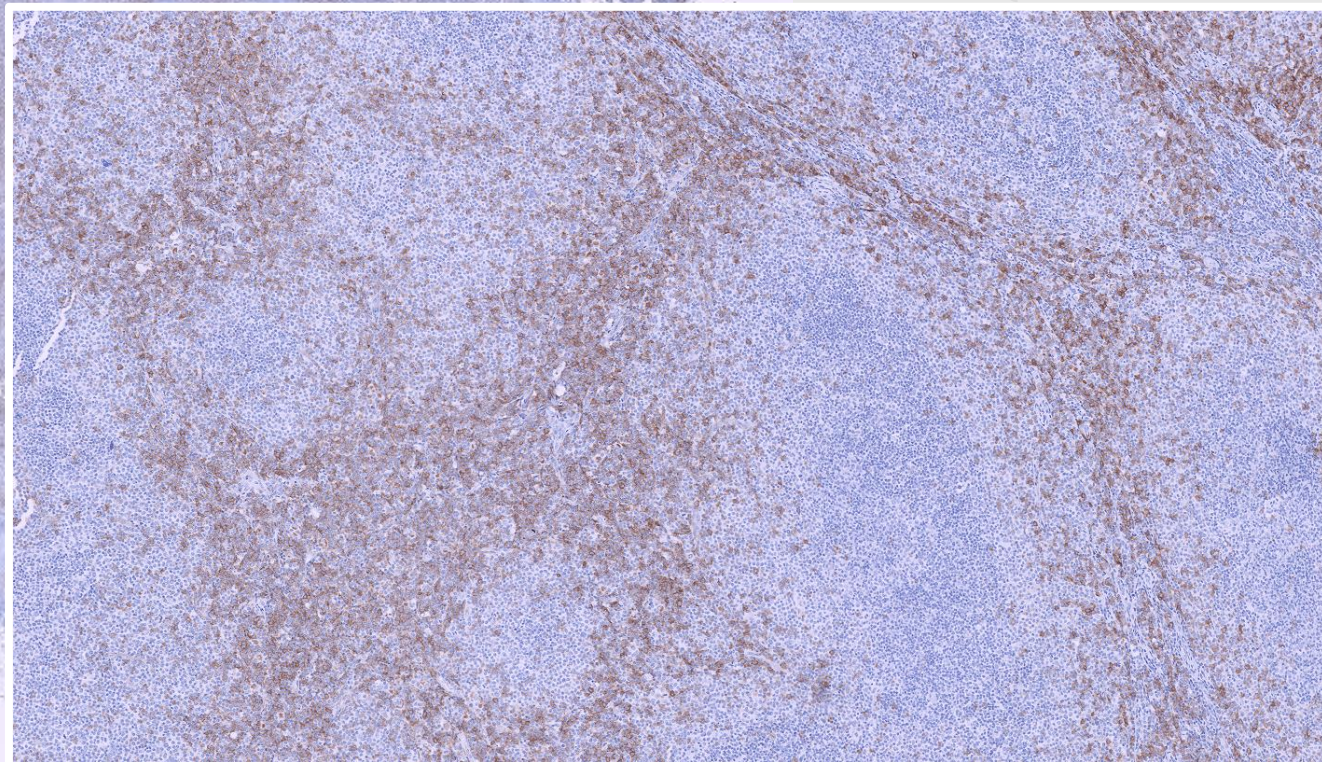
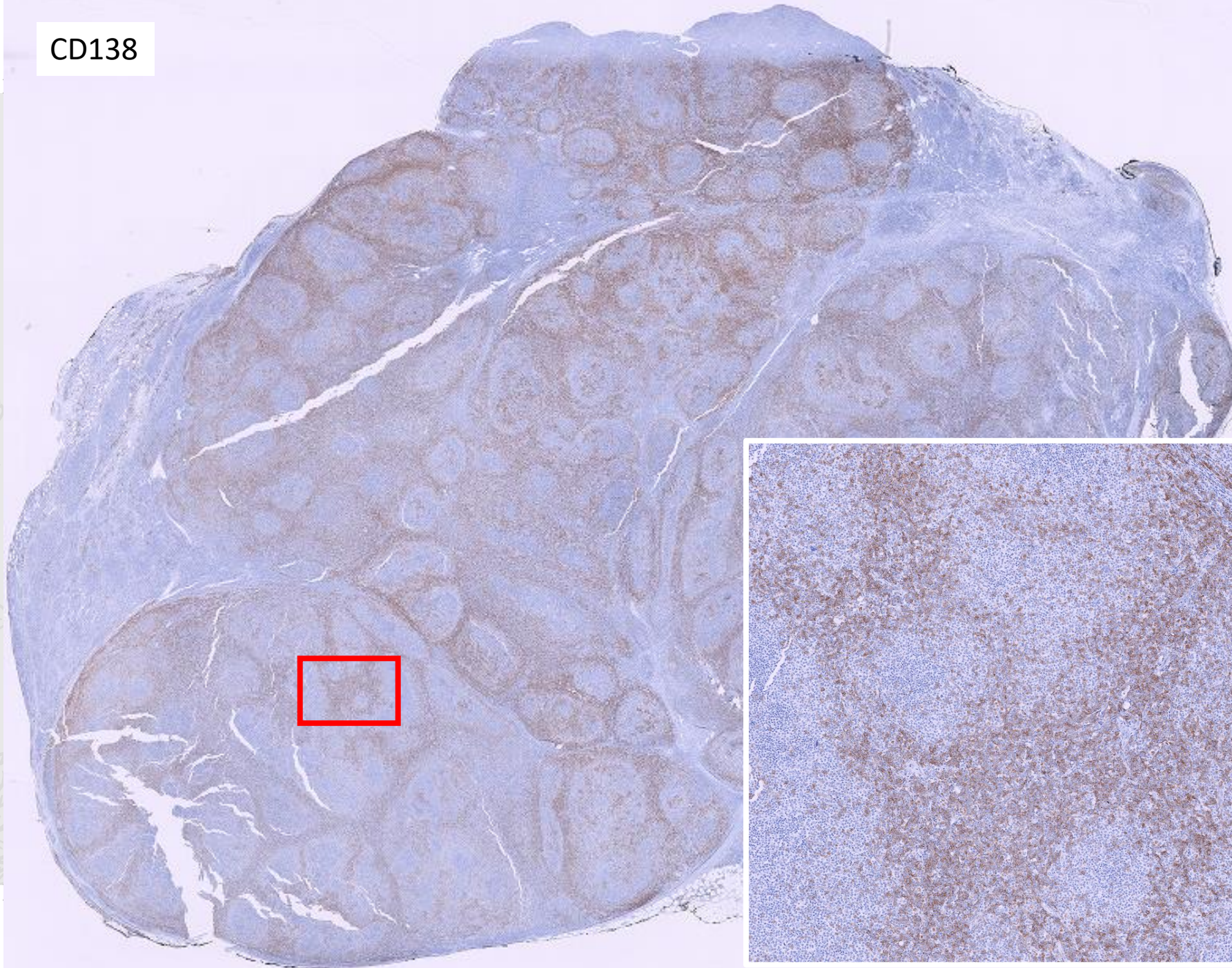
MUM1



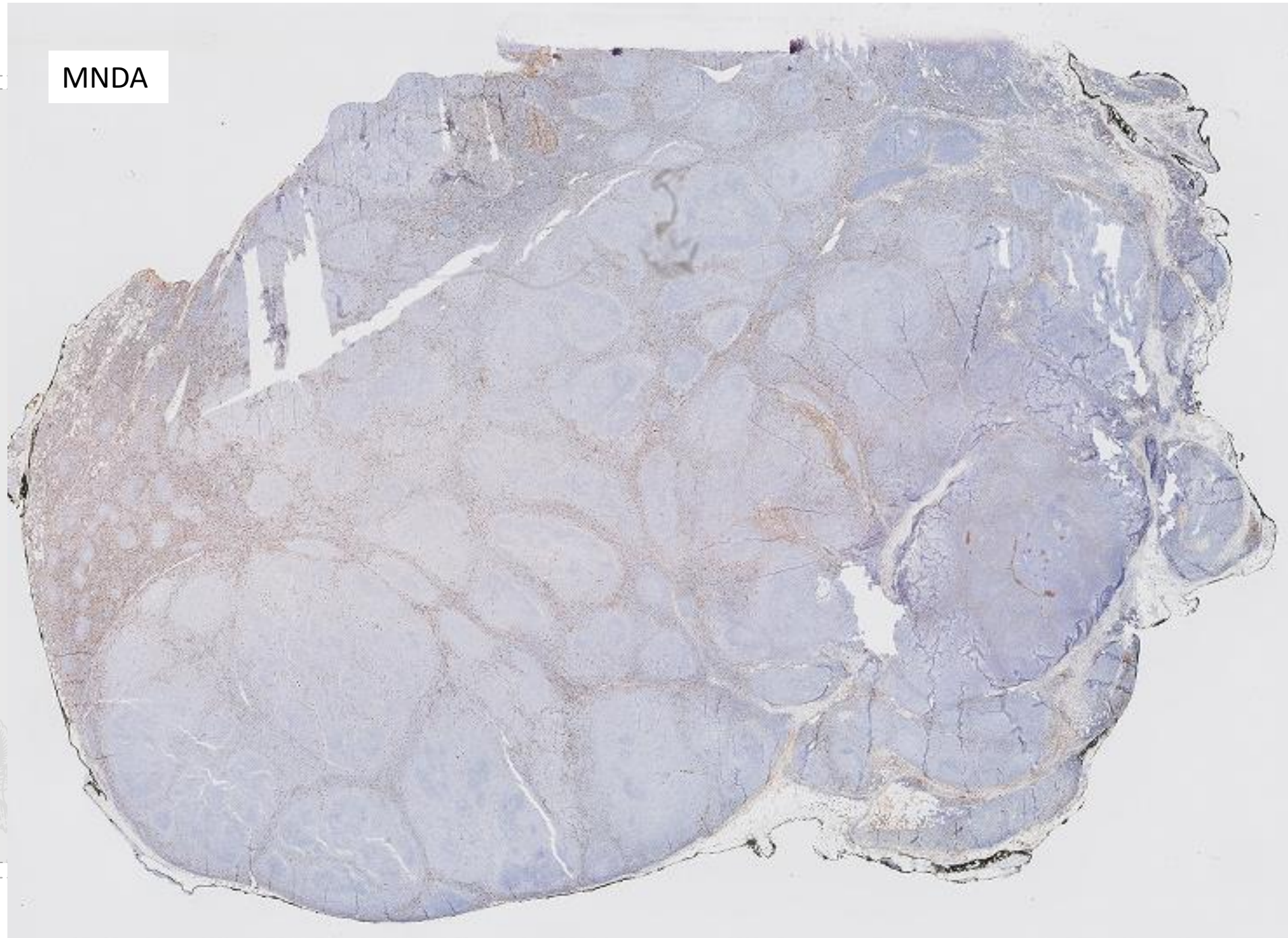
CD79a



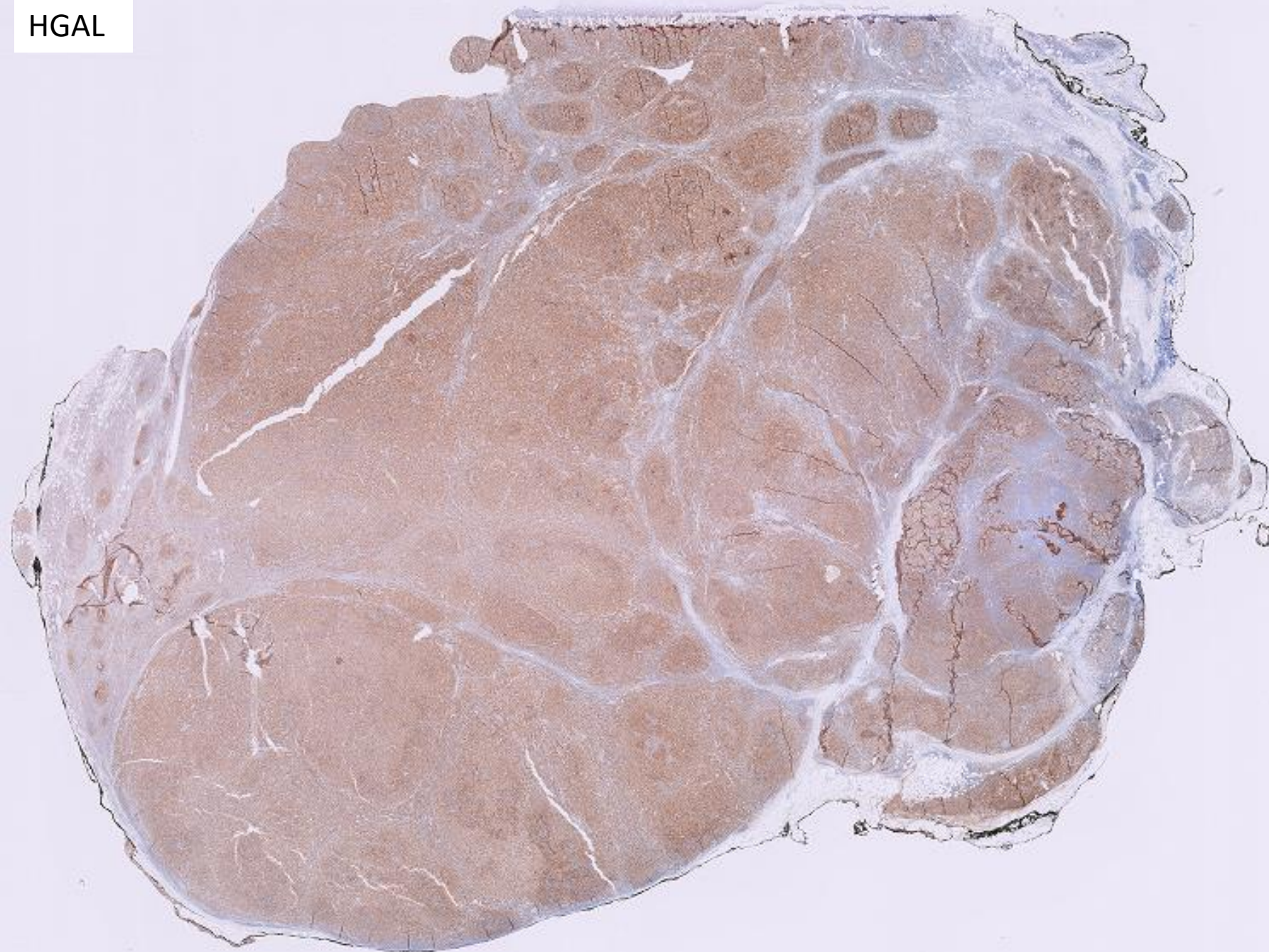
CD138



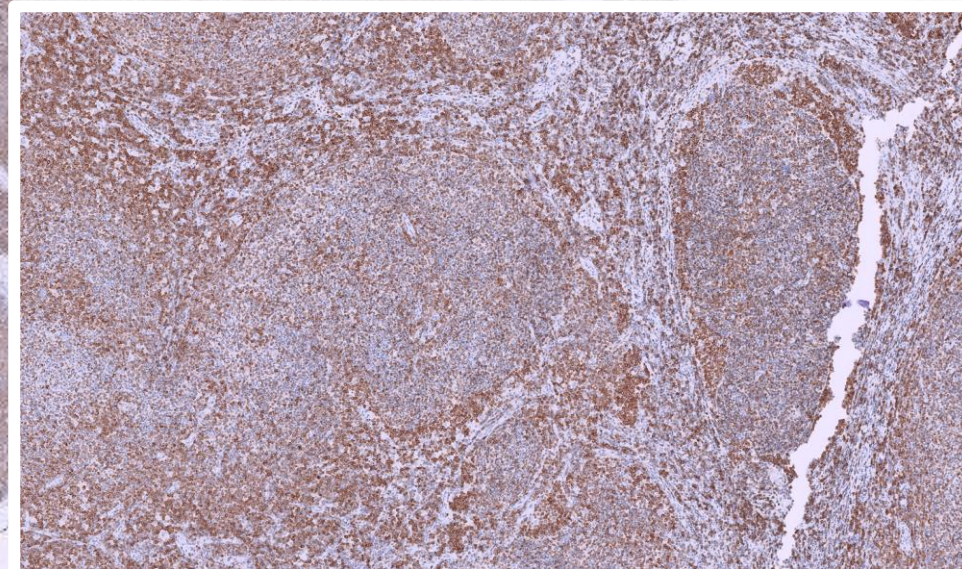
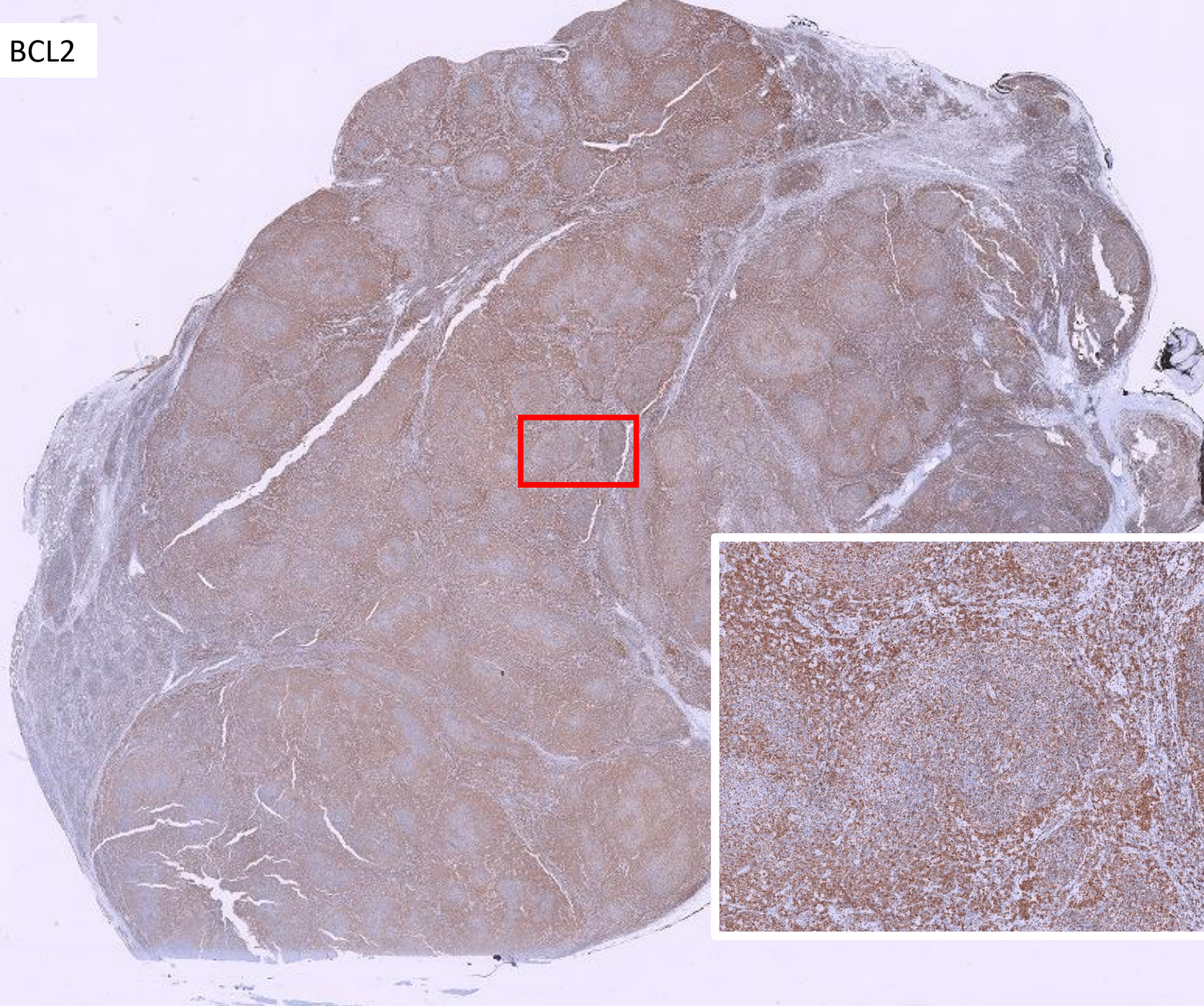
MNDA



HGAL



BCL2



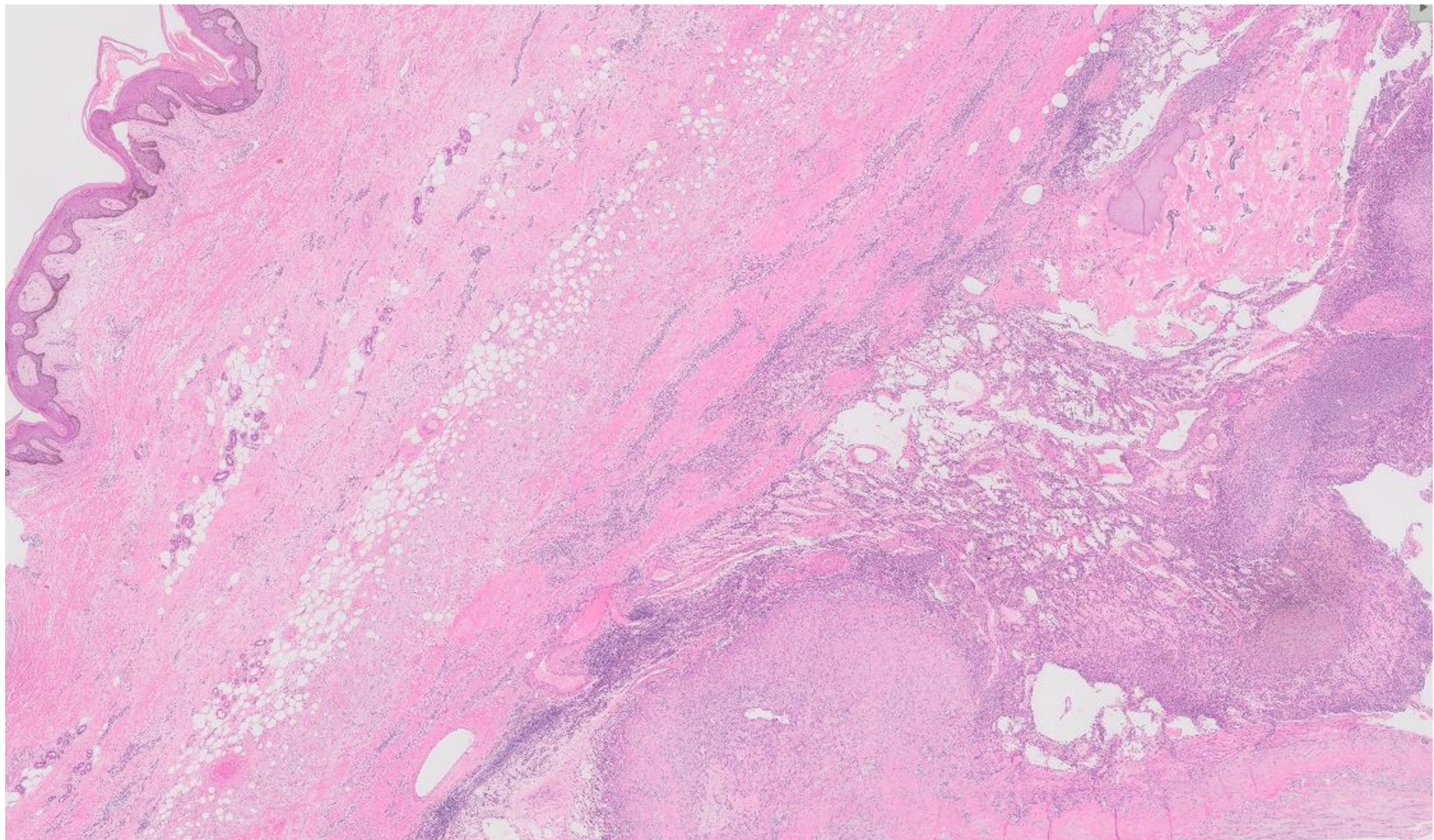
DIAGNOSIS?

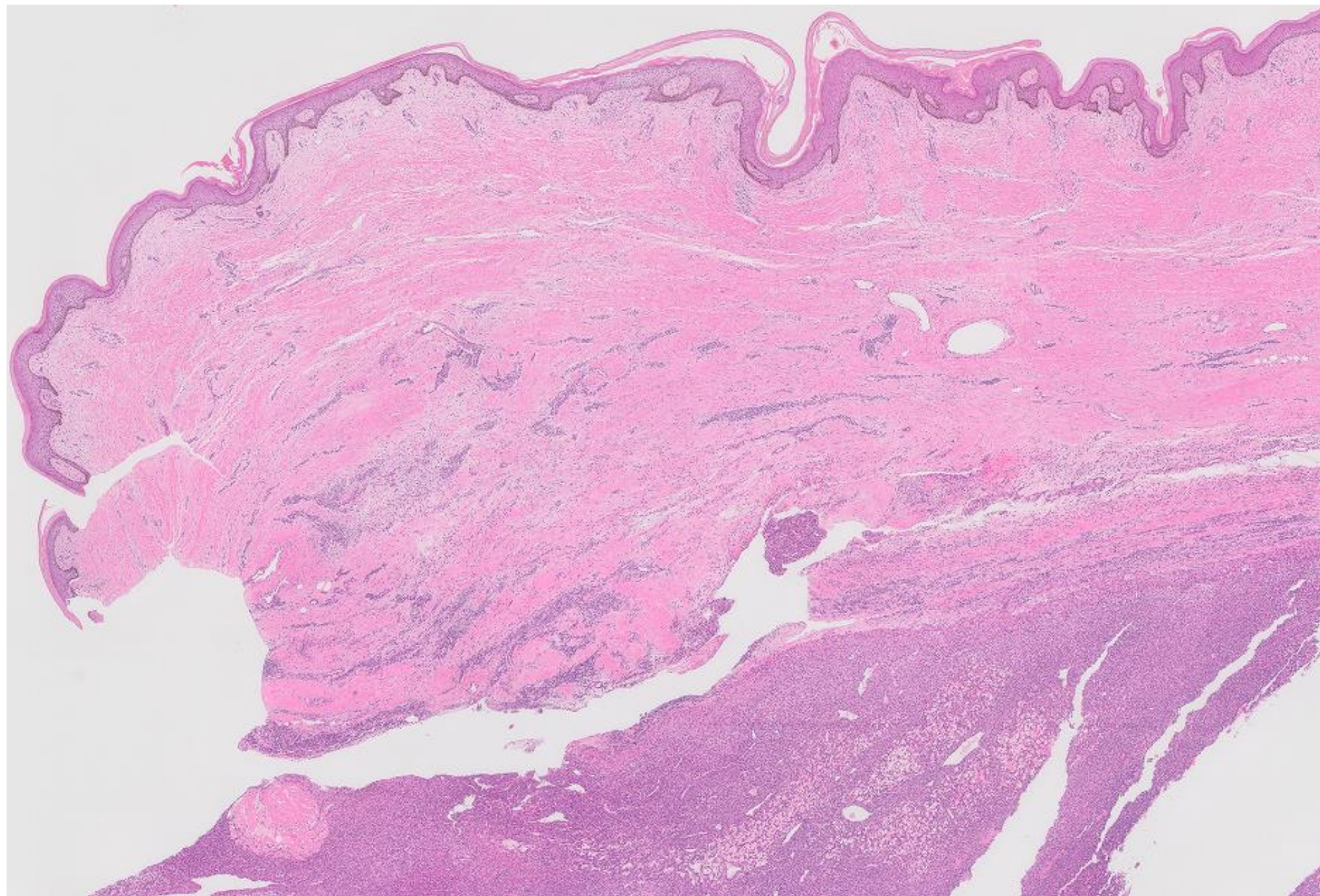


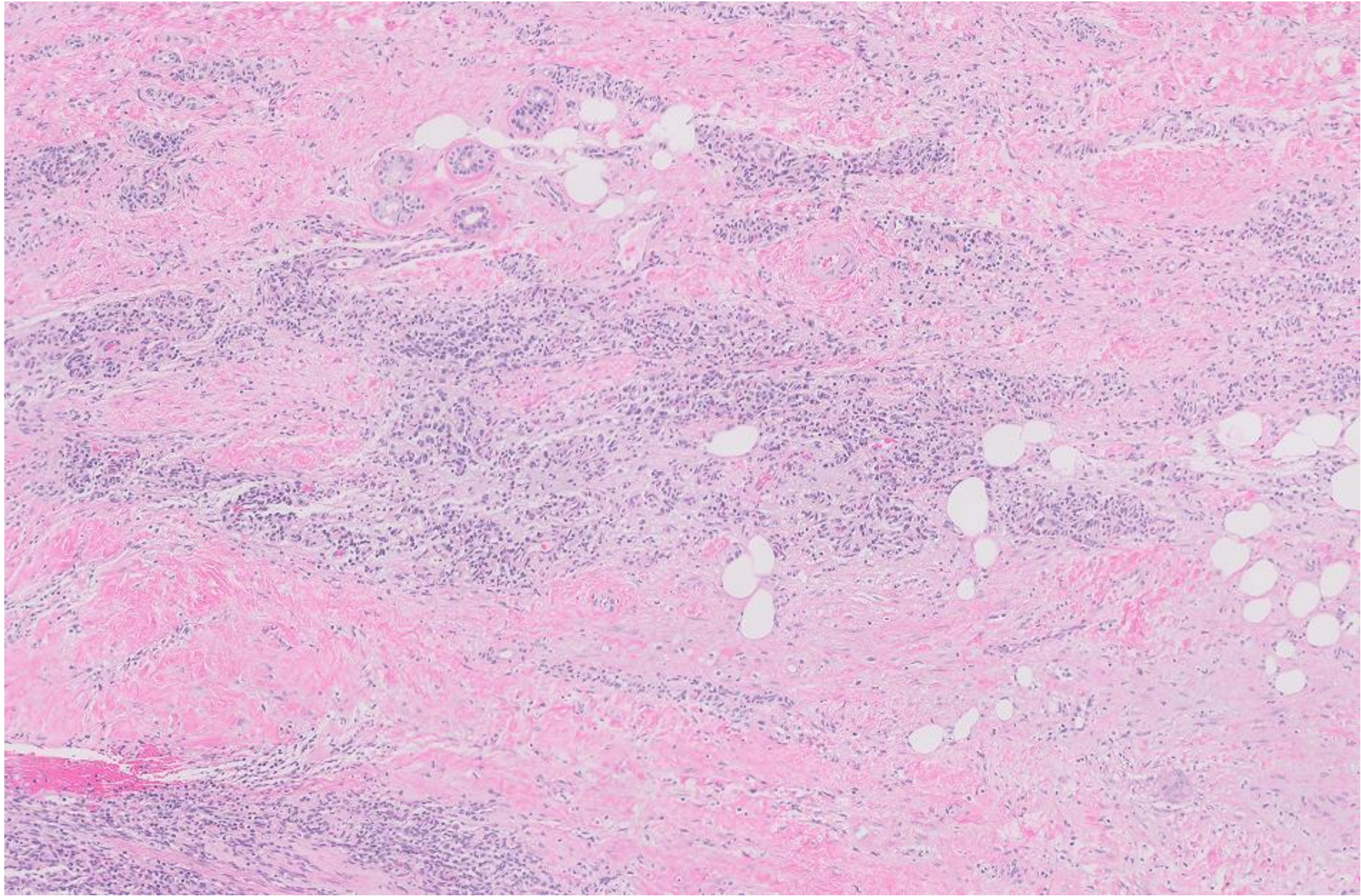
25-0407

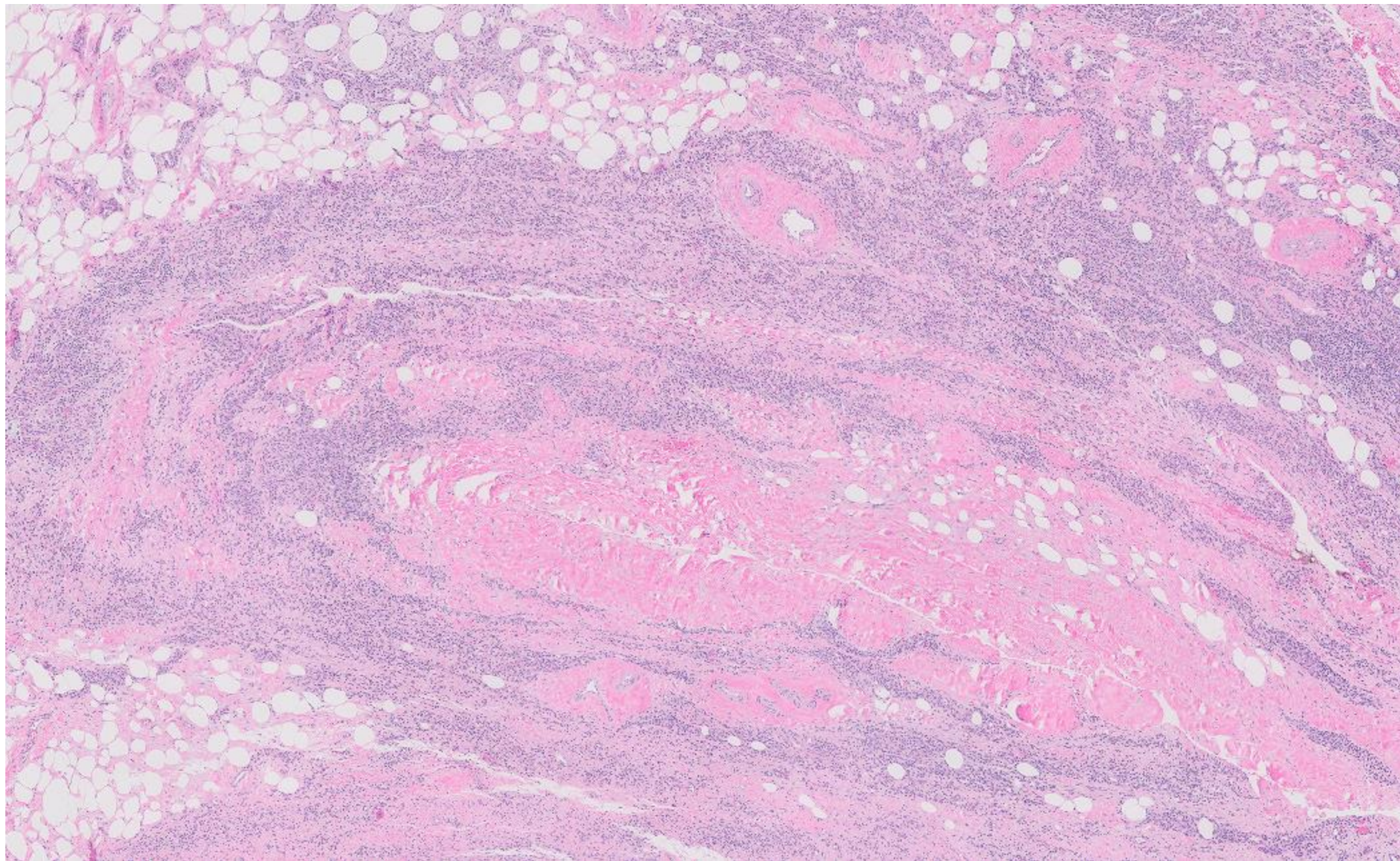
Sheren Younes; Xiaohua Qian; Stanford

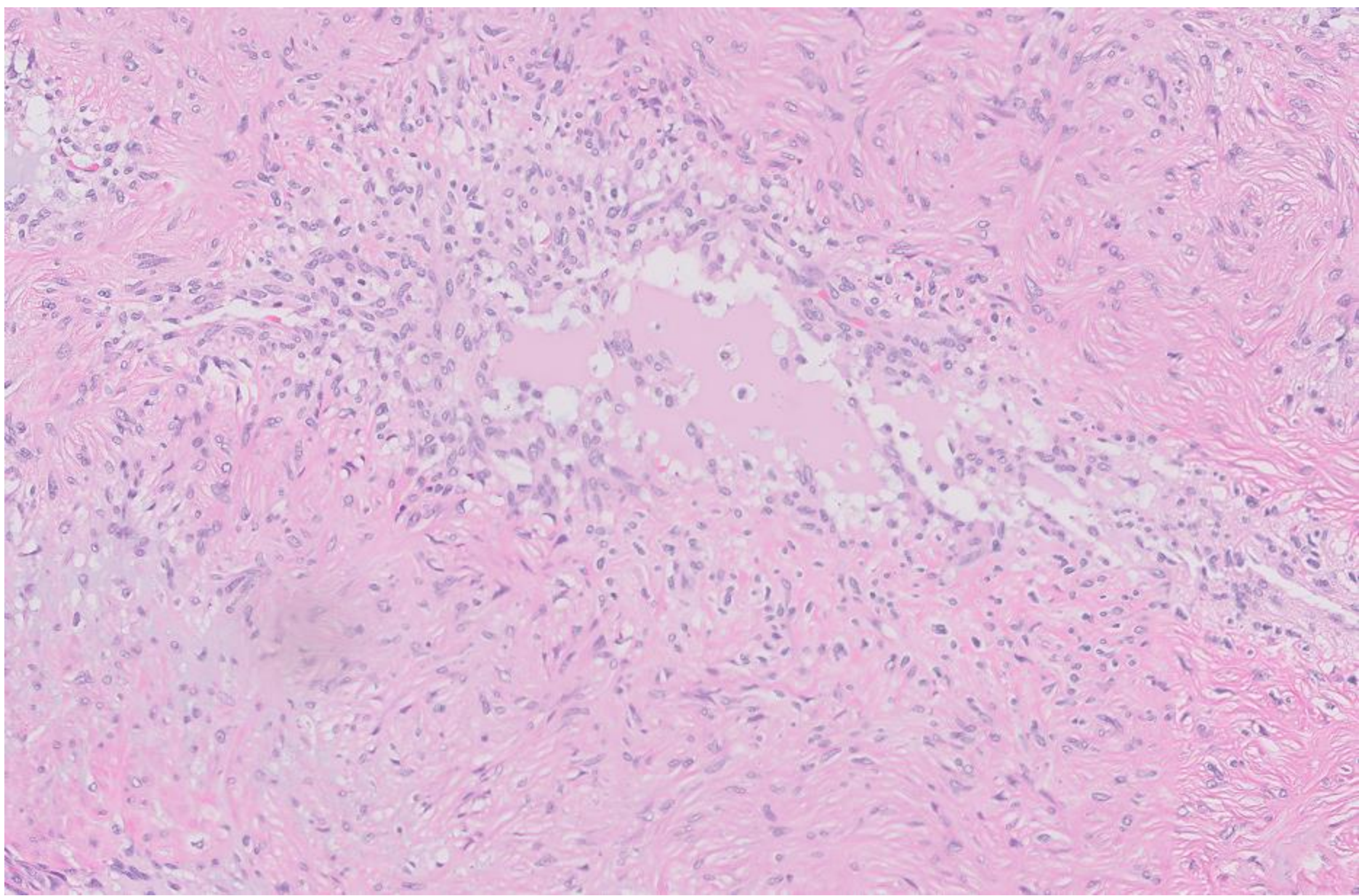
40 year-old female with left ankle mass

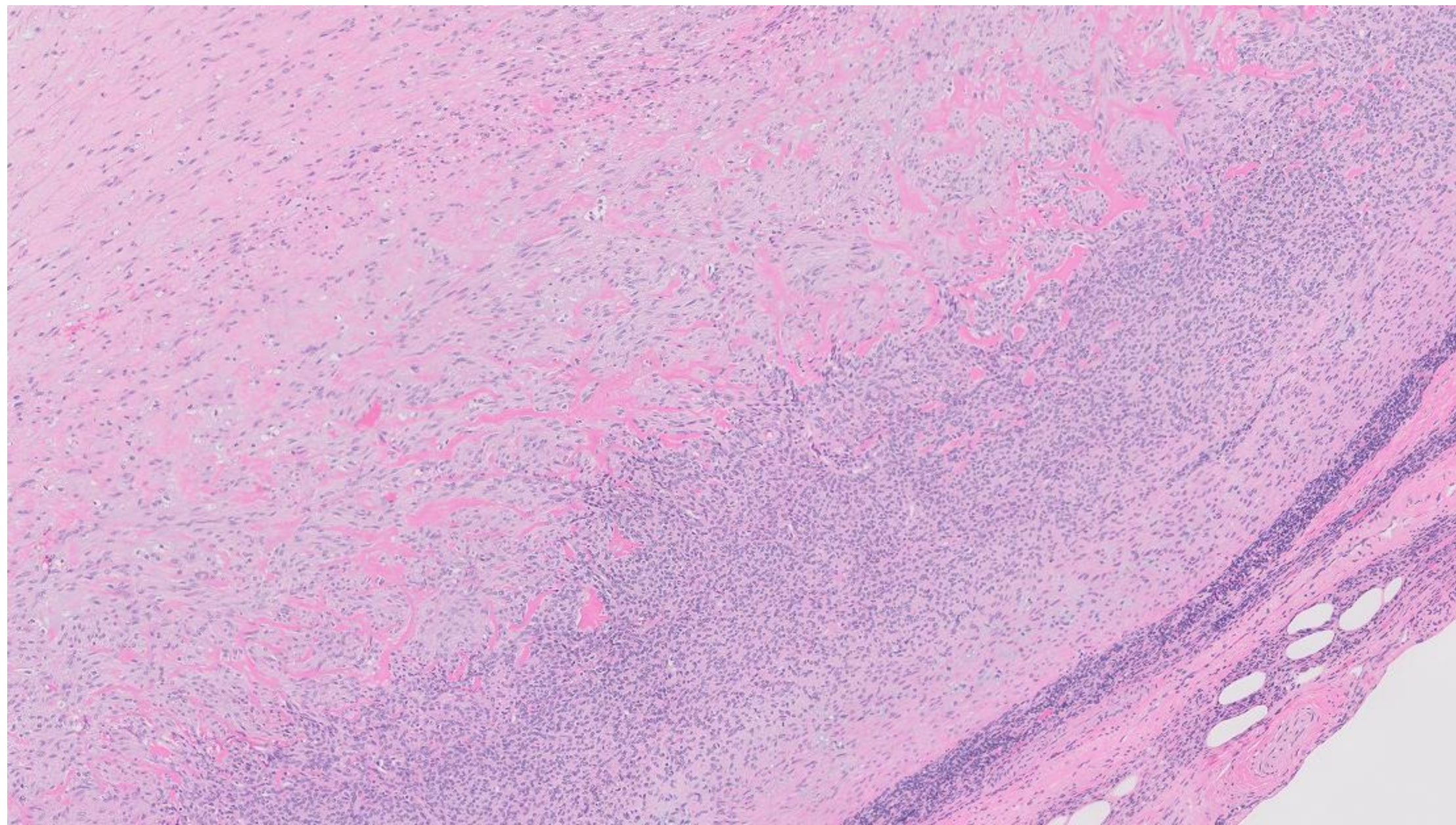


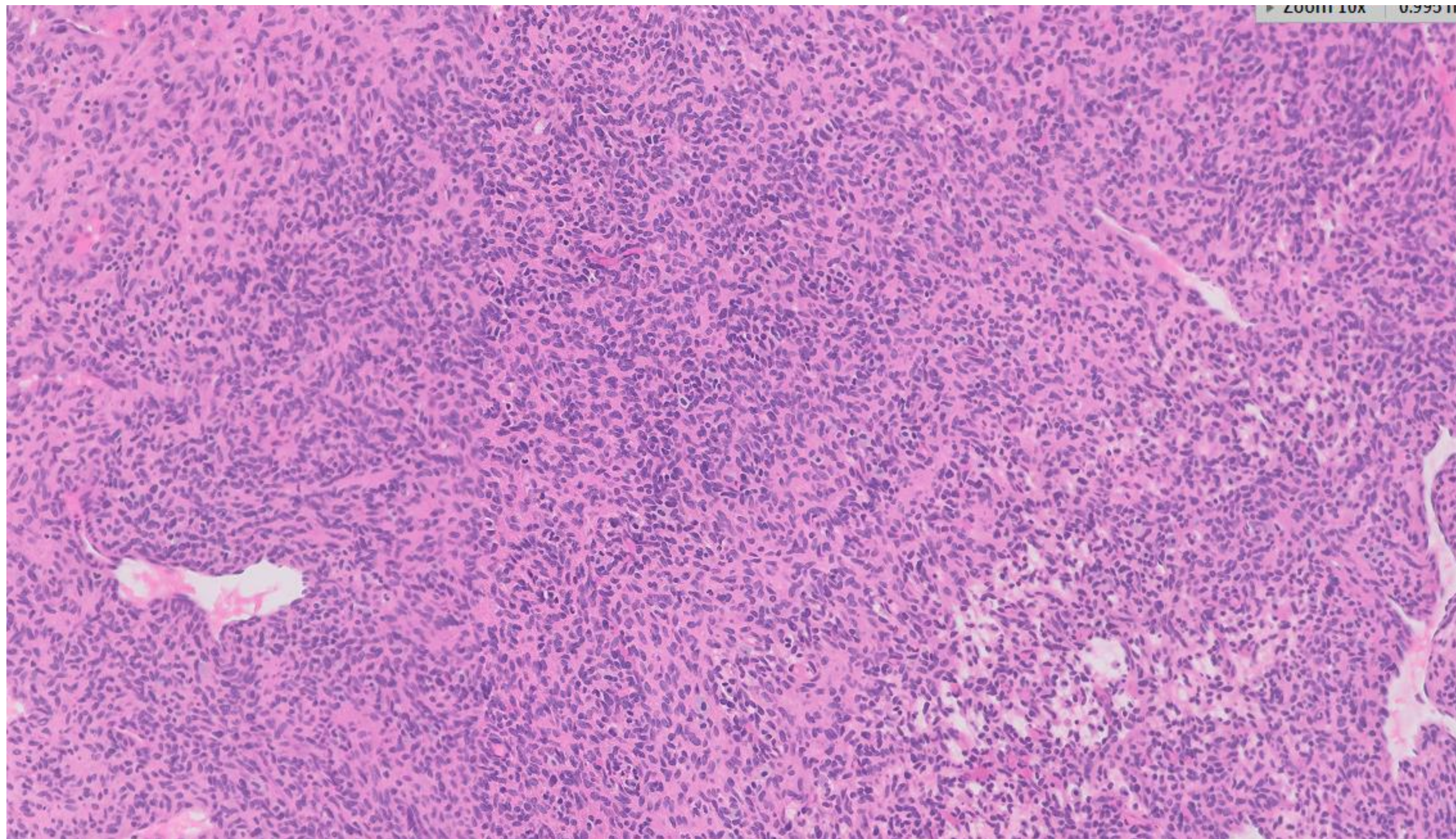


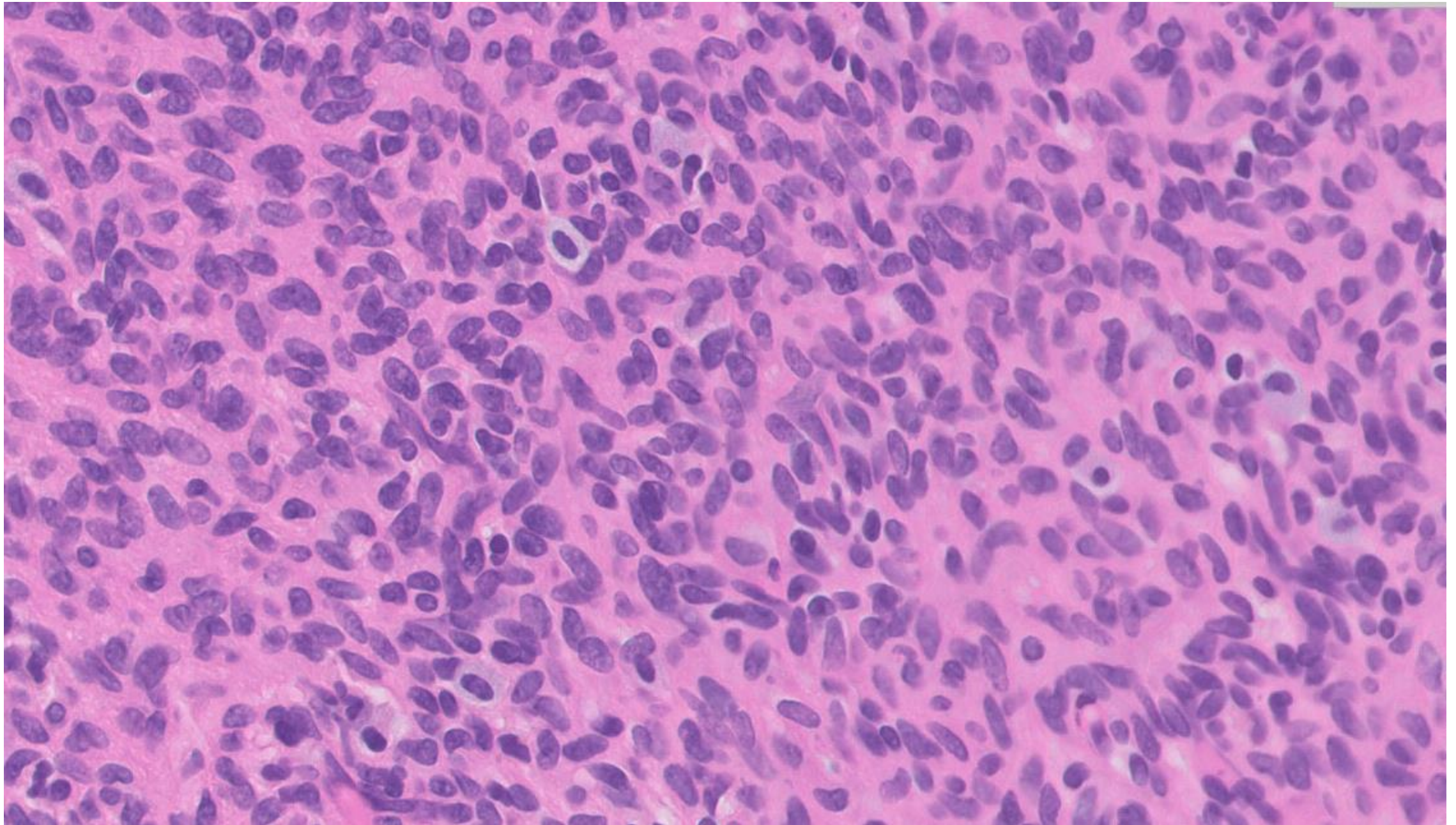


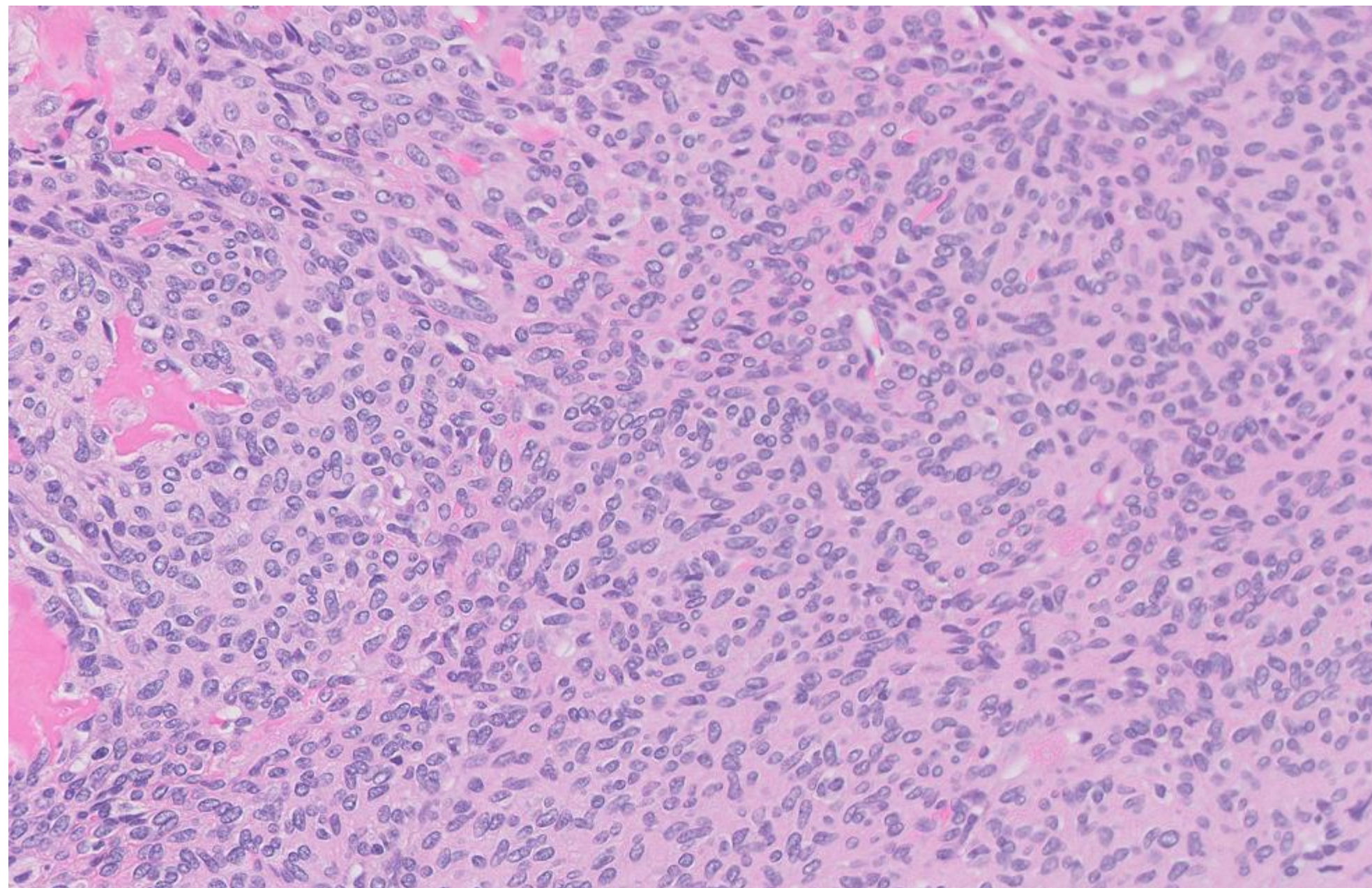


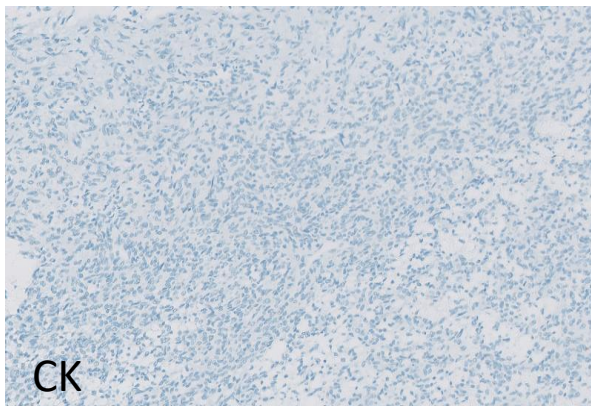
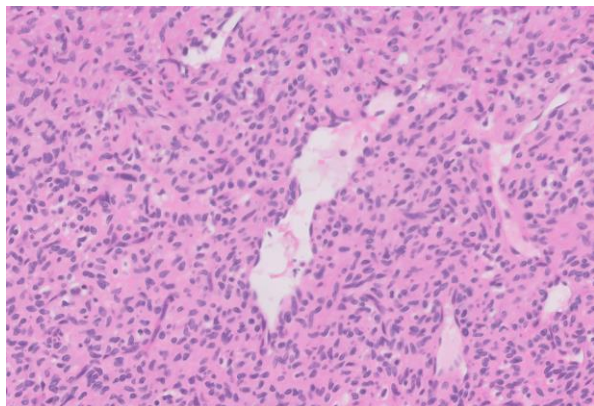




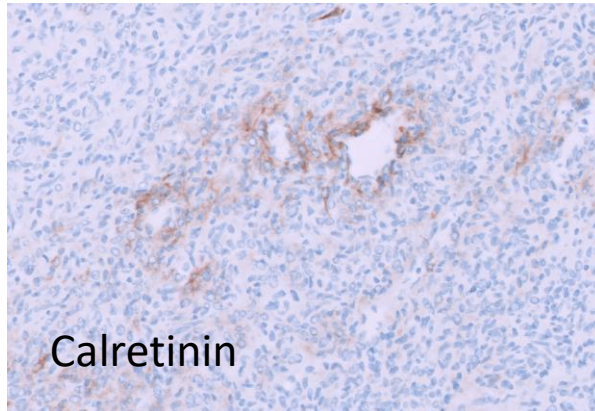




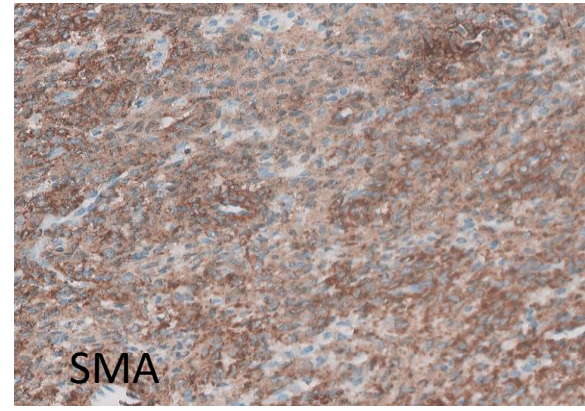




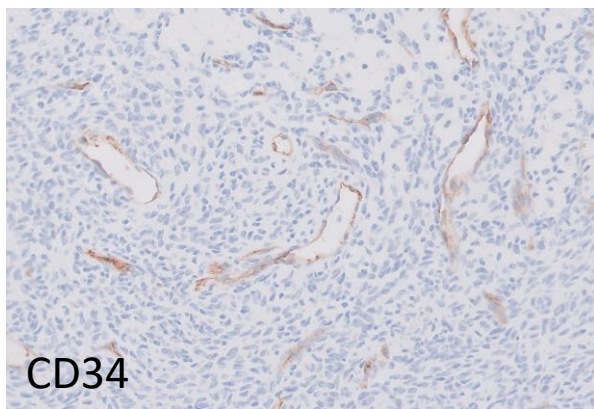
CK



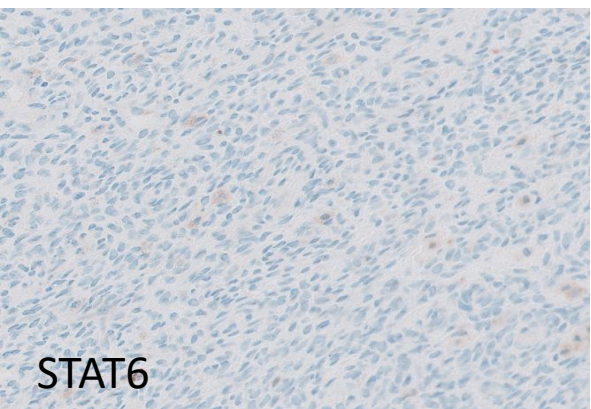
Calretinin



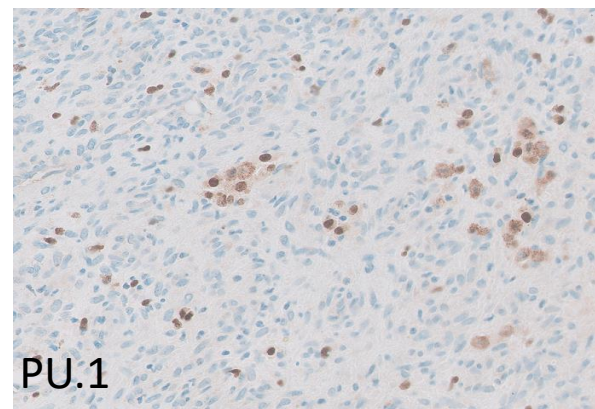
SMA



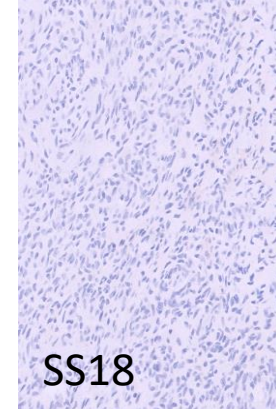
CD34



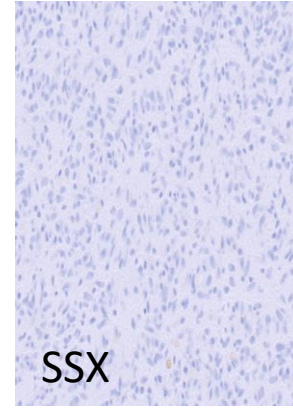
STAT6



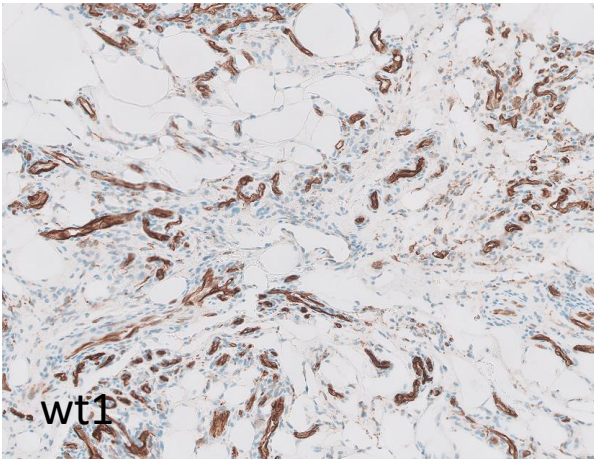
PU.1



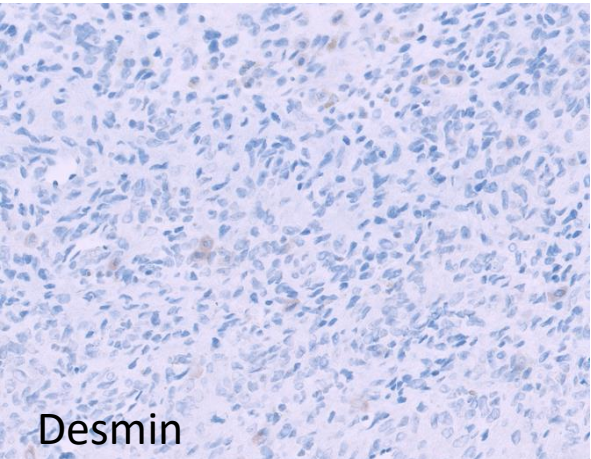
SS18



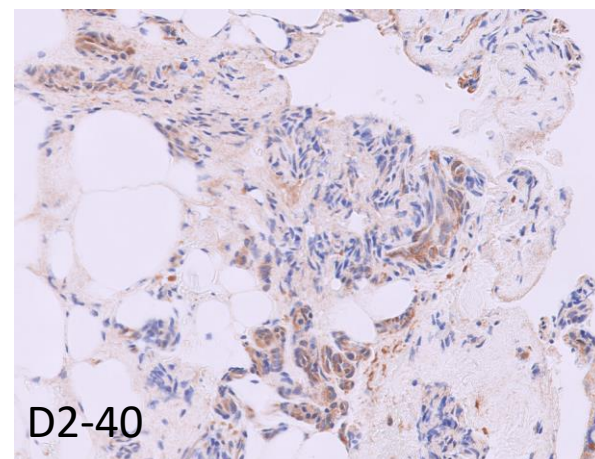
SSX



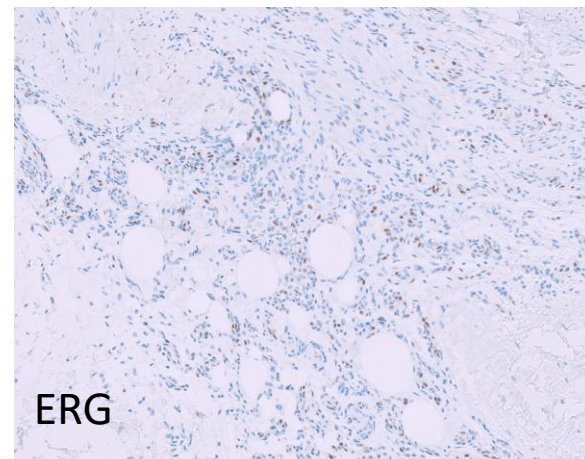
wt1



Desmin



D2-40



ERG

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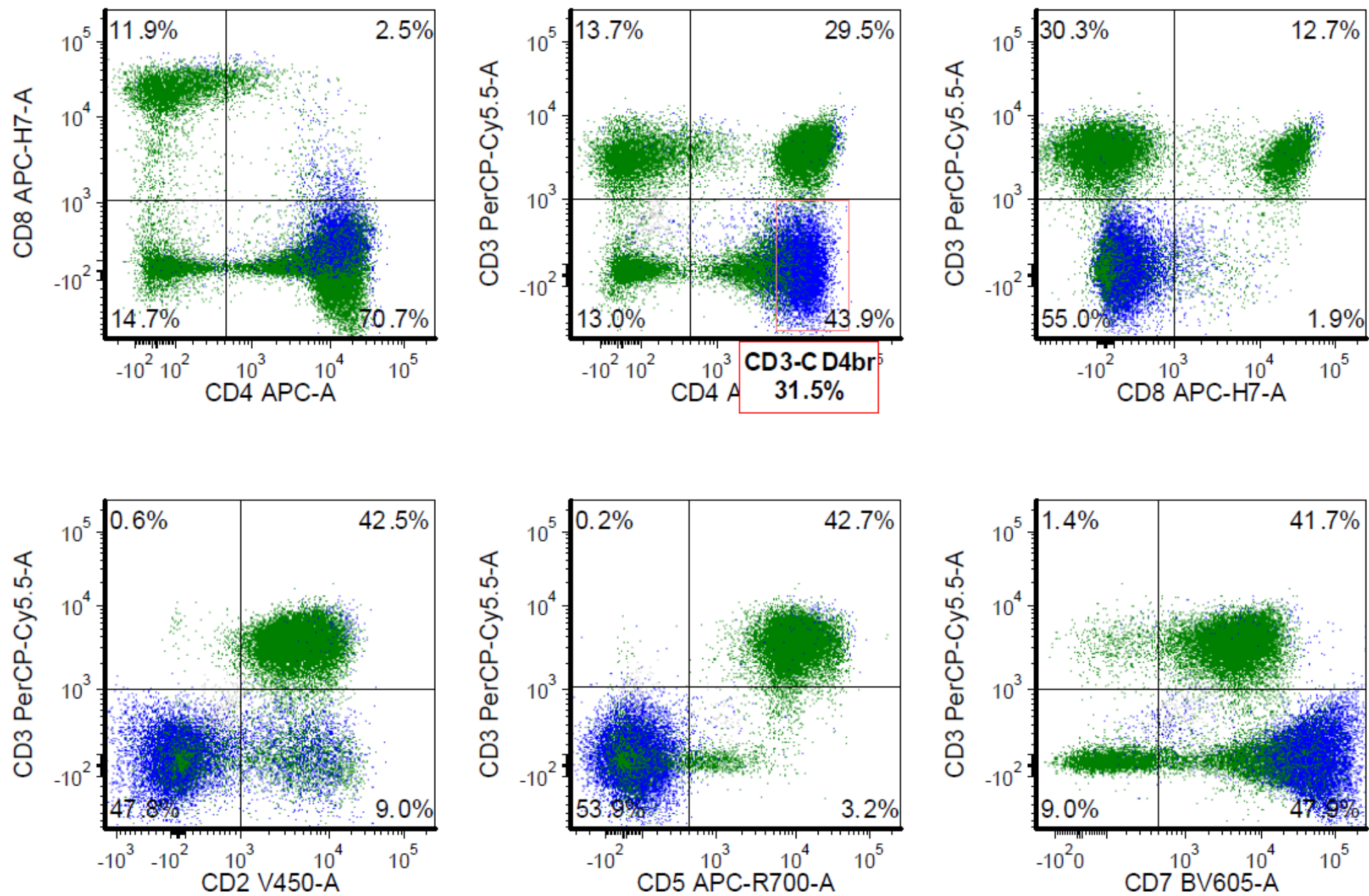


25-0408

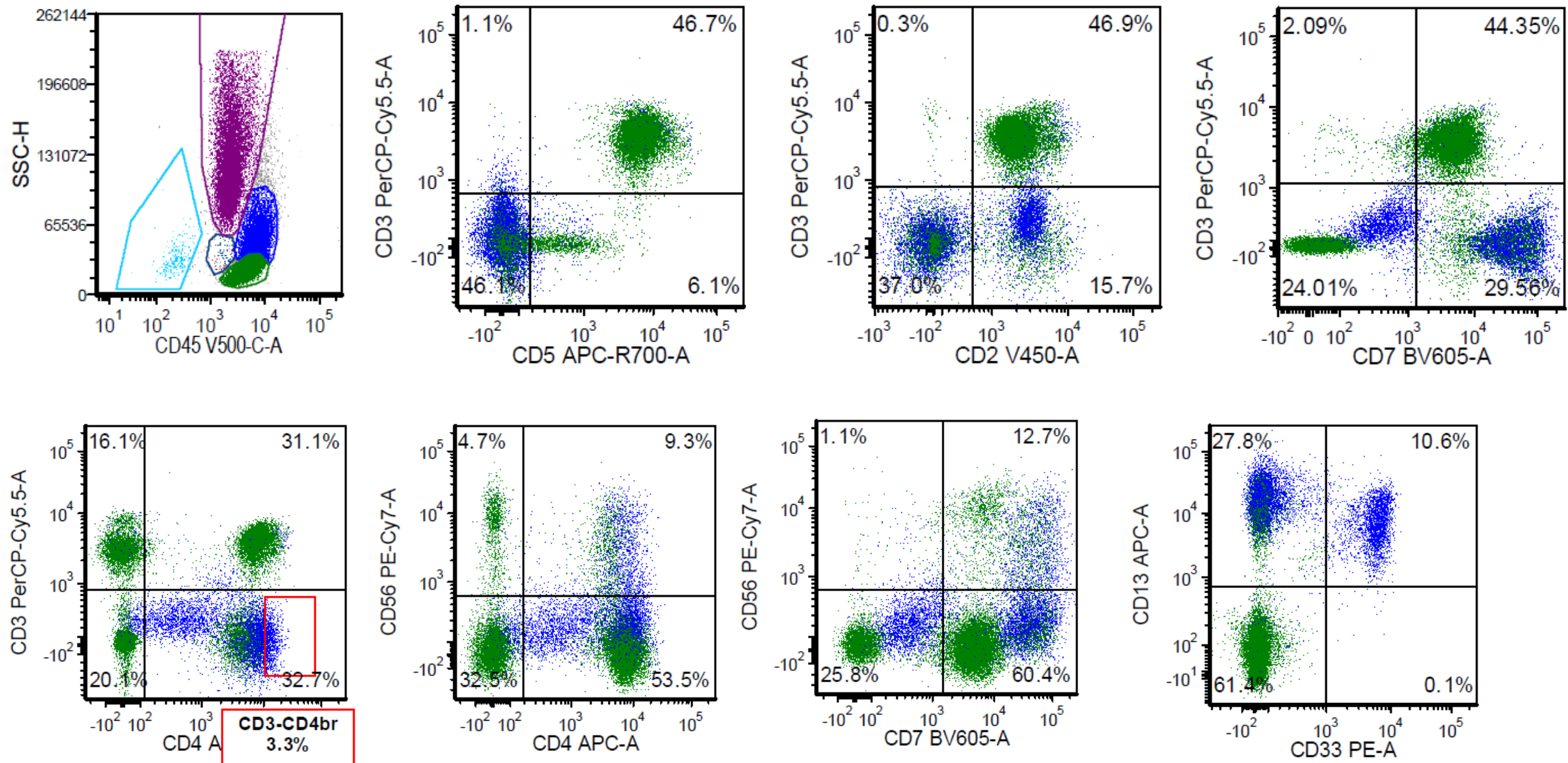
Sheren Younes; Sebastian Fernandez-Pol; Stanford

8 year old female with fever, respiratory failure, bilateral humerus lytic lesions

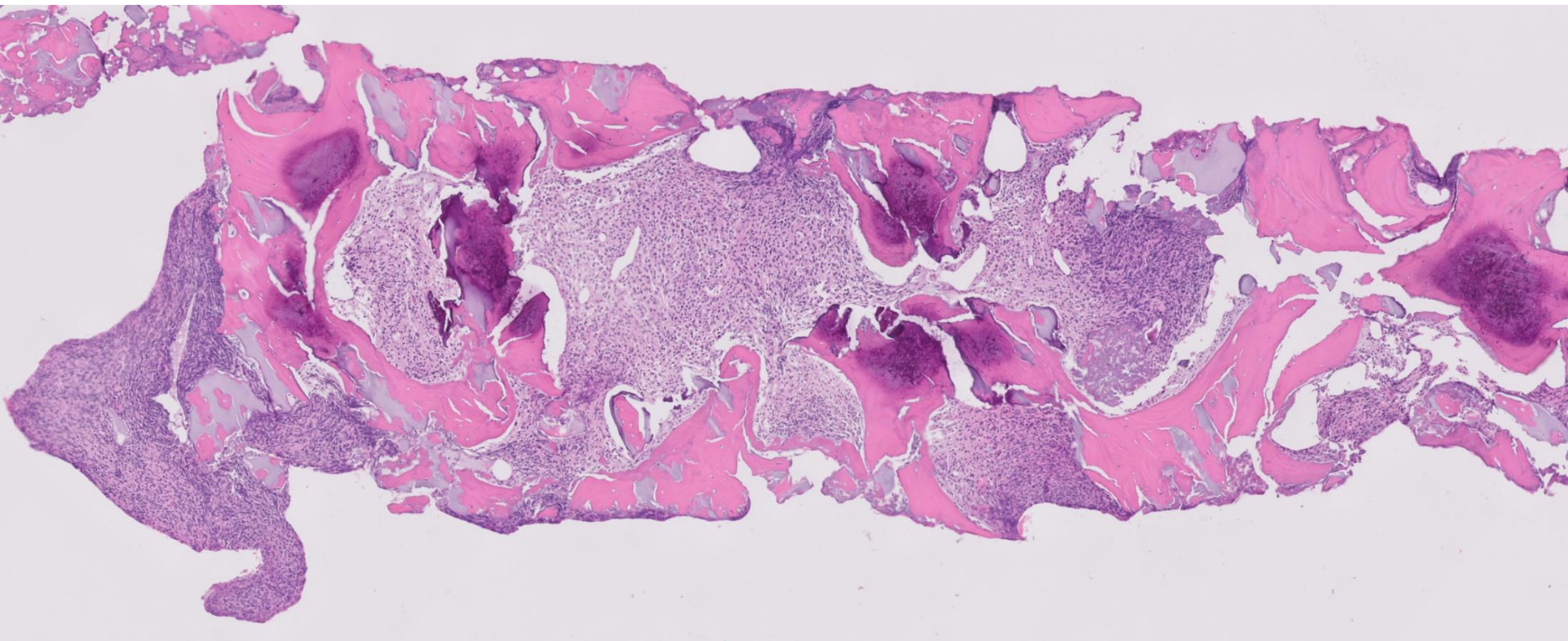
Pleural fluid flow cytometry



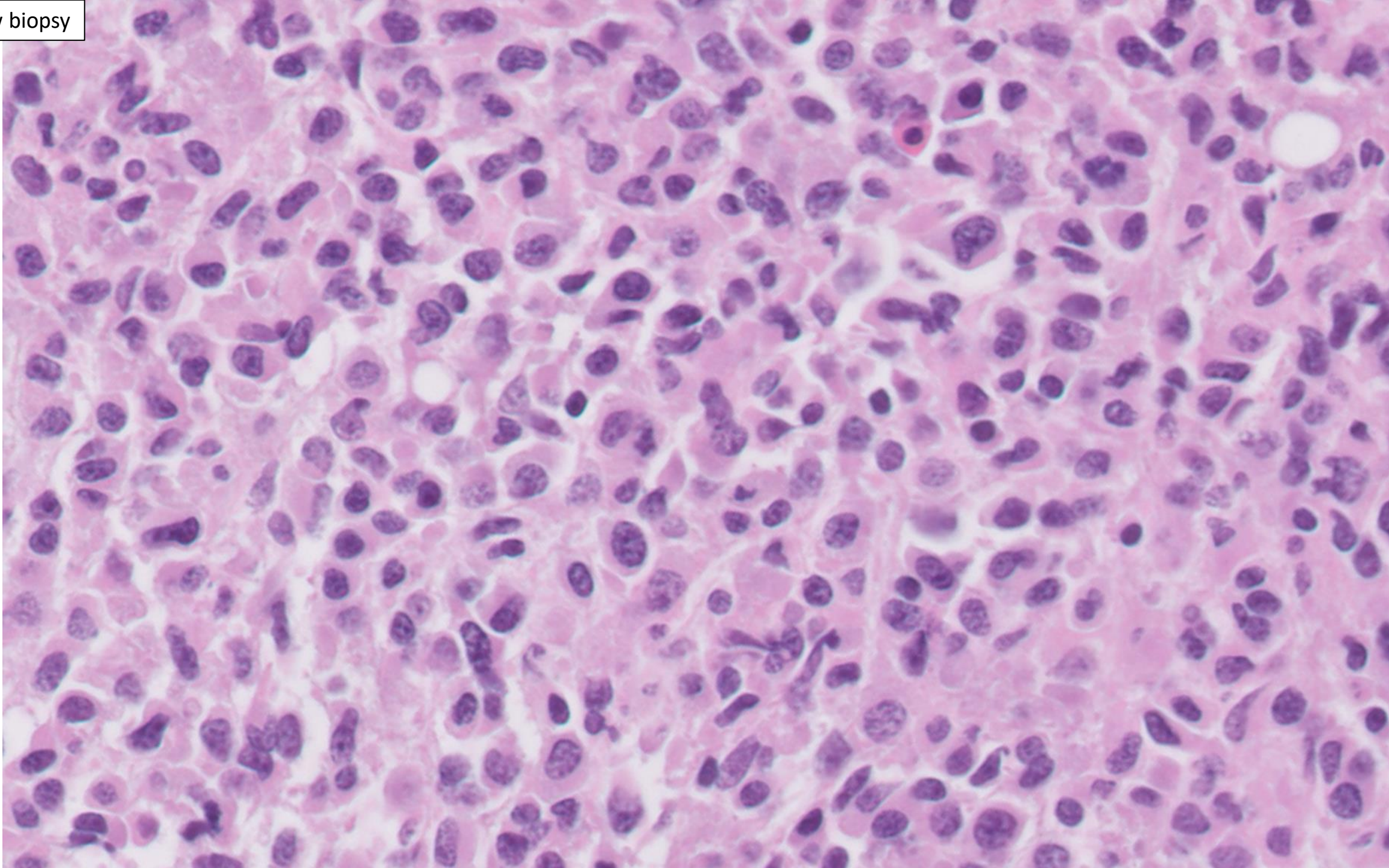
Peripheral blood flow cytometry

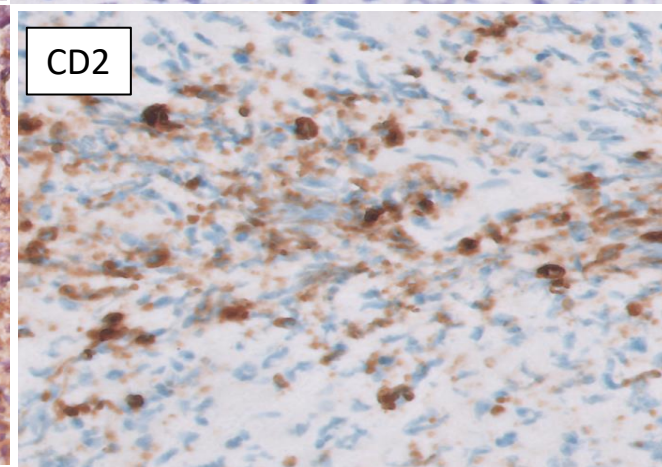
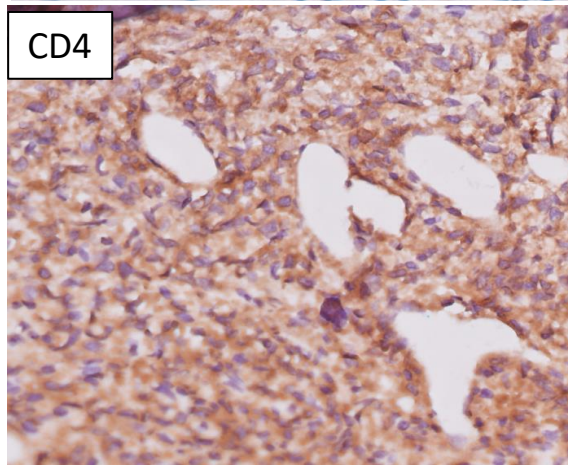
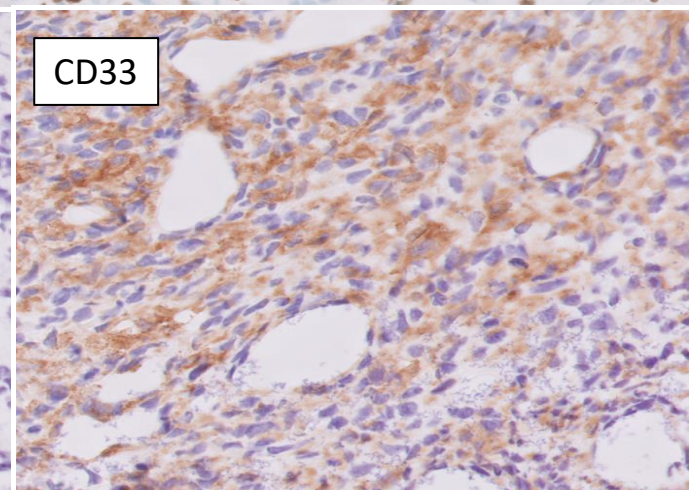
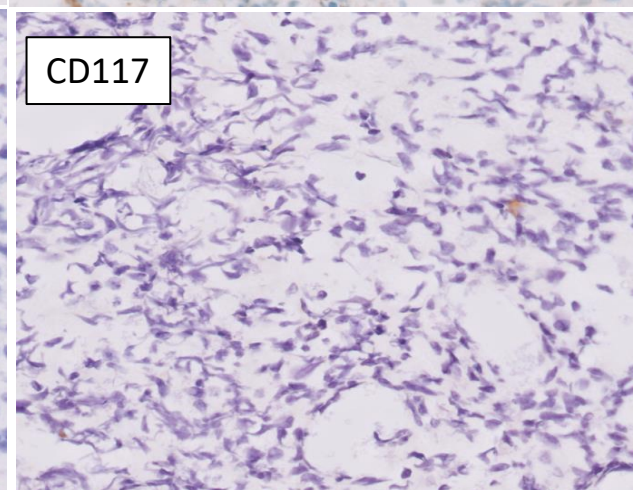
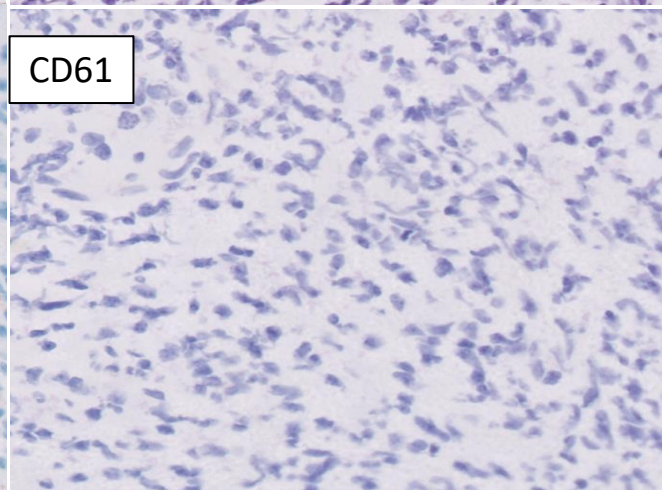
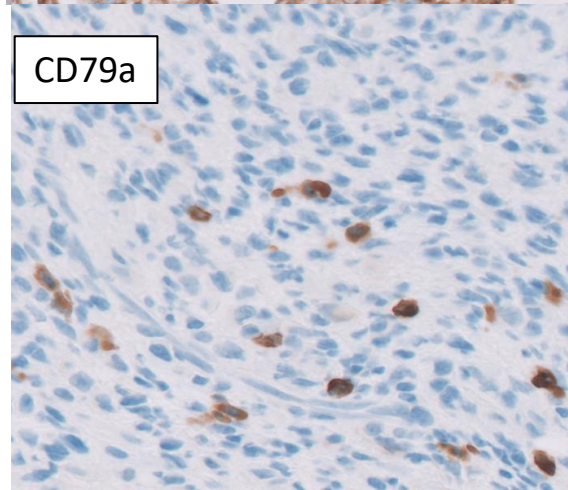
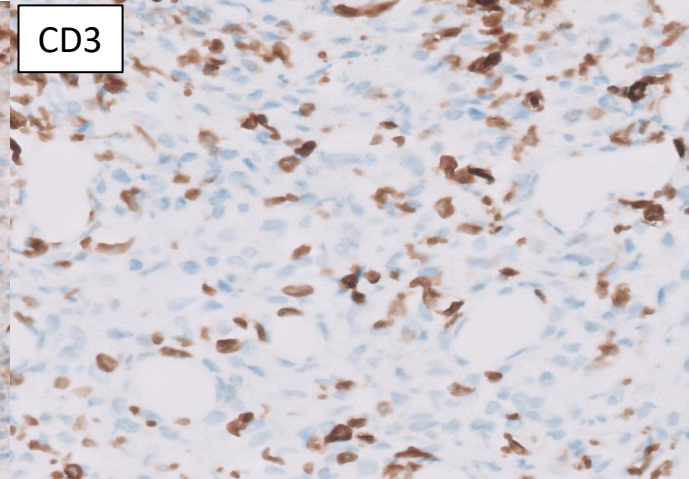
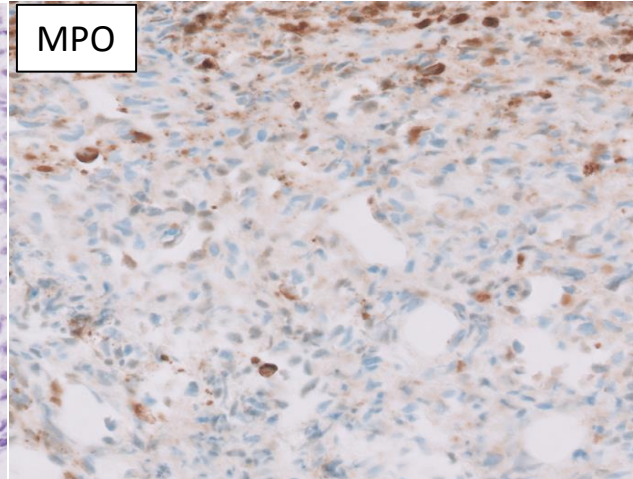
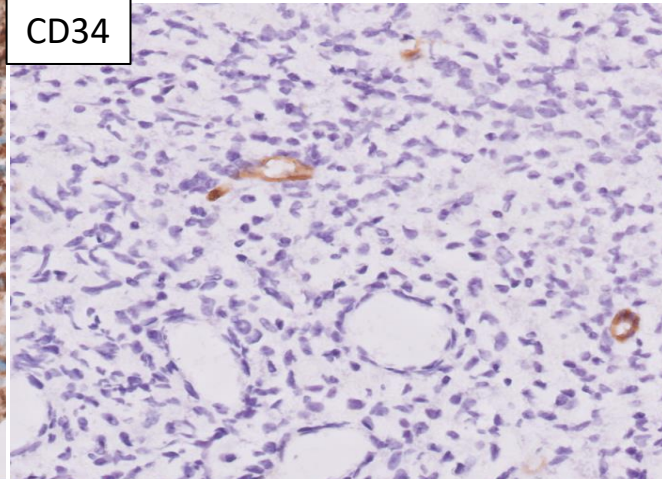
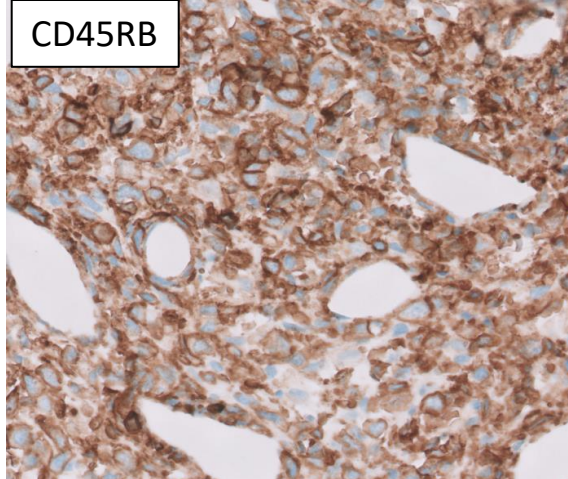


Bone marrow biopsy



Bone marrow biopsy





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