




QEII CASE CHALLENGES

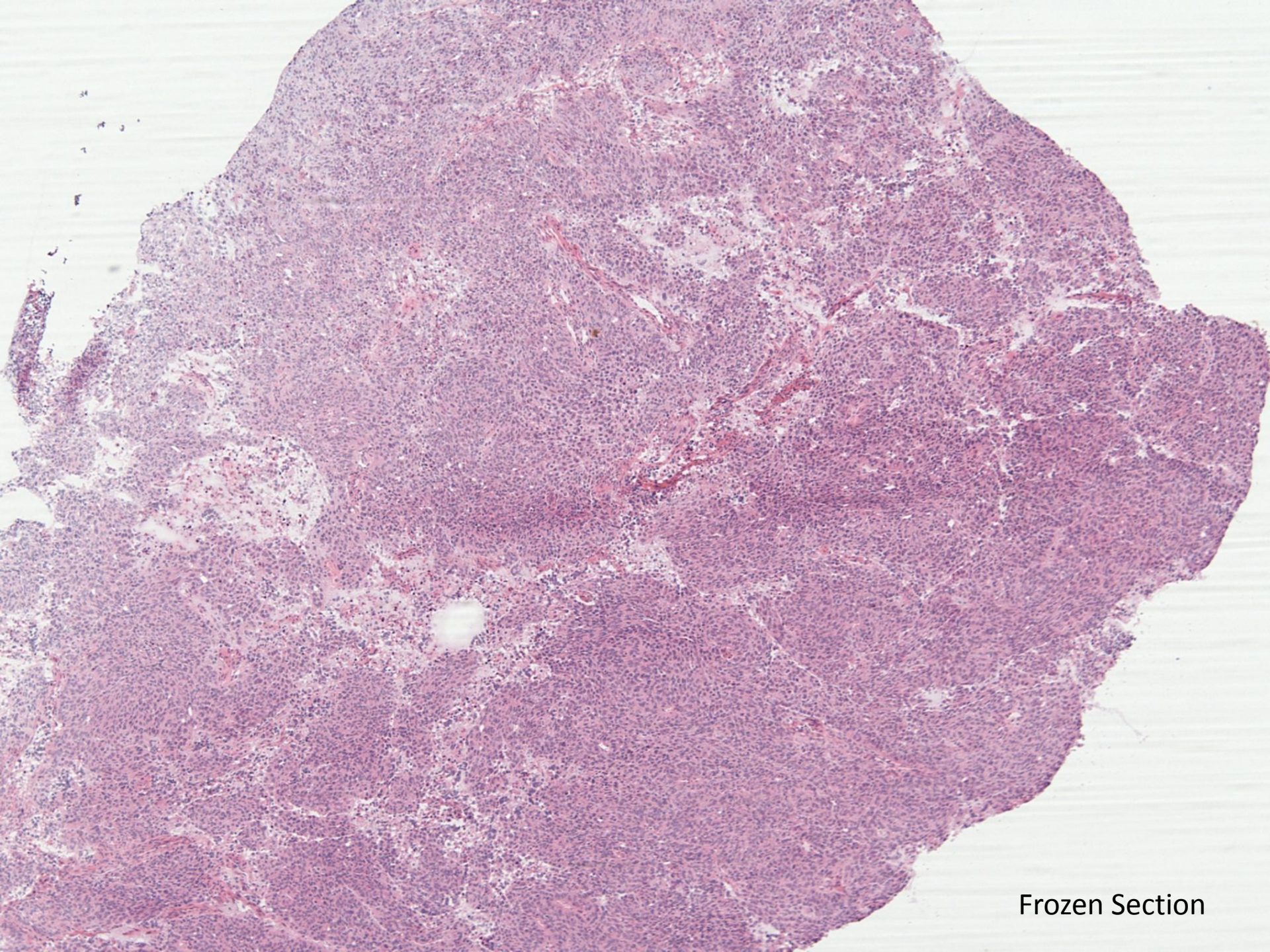




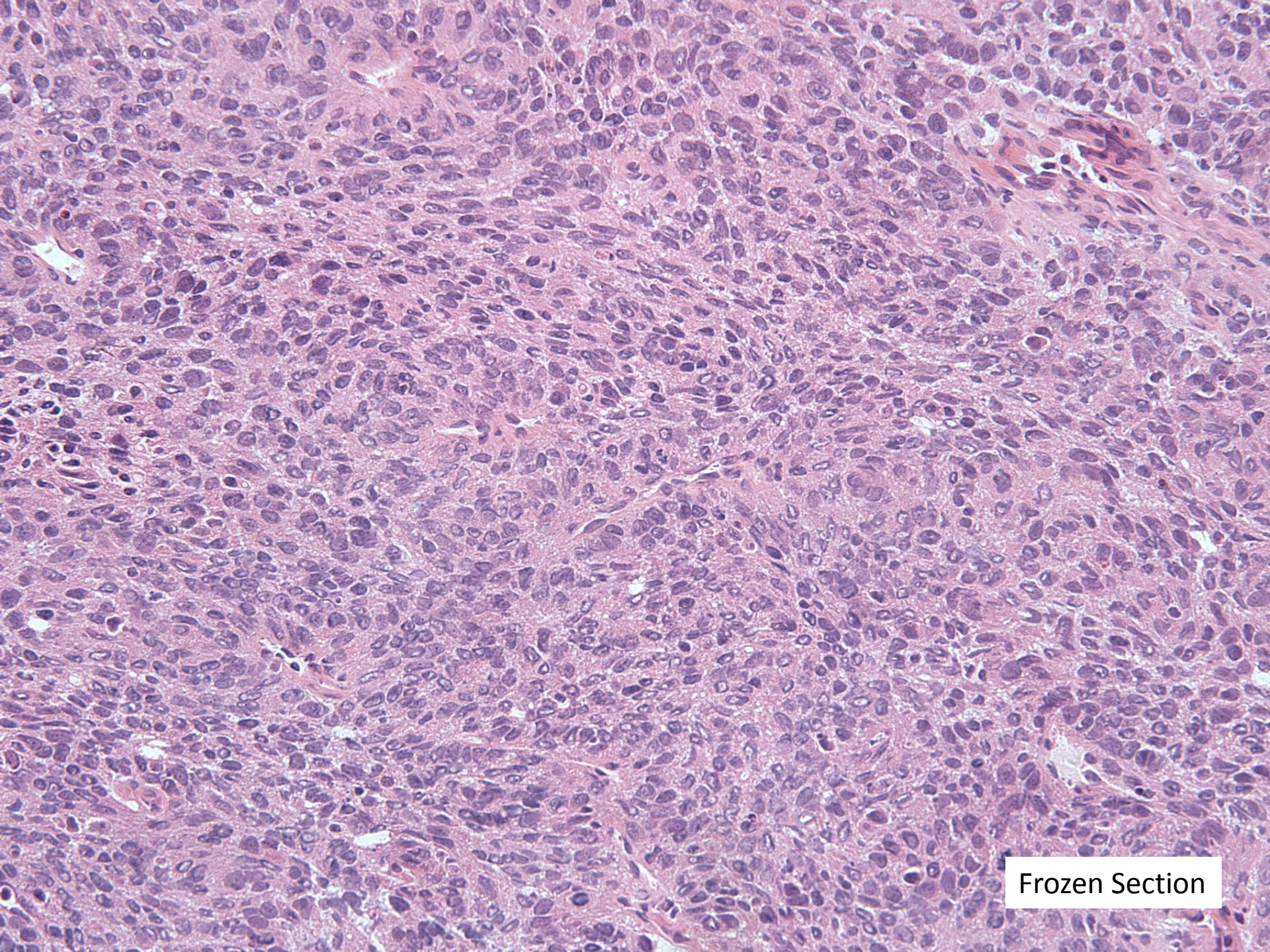
Case submitted by Dr. Saul Offman
Capital District Health Authority / Dalhousie University



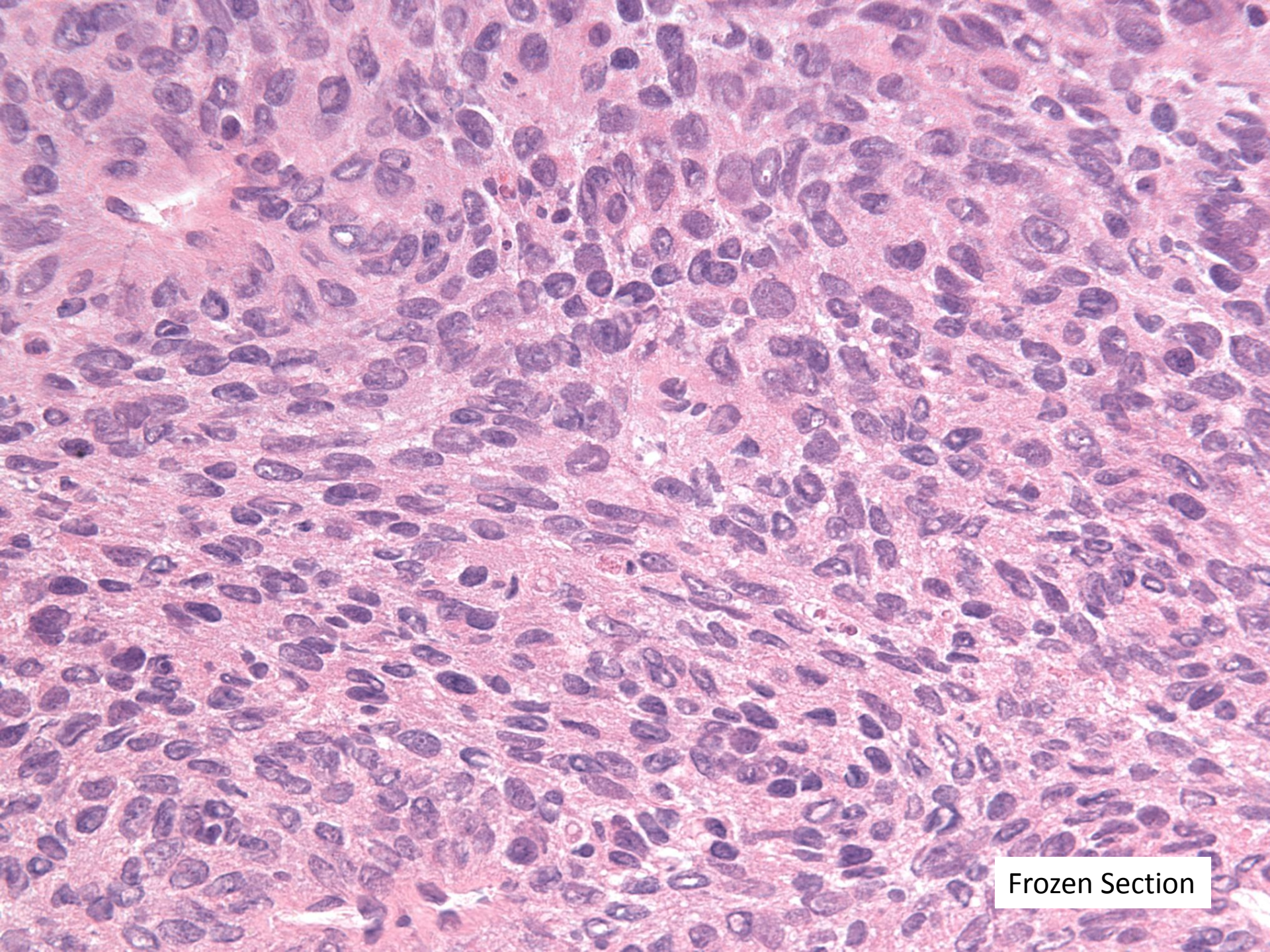
73 year old female with left adnexal mass (frozen section)



Frozen Section

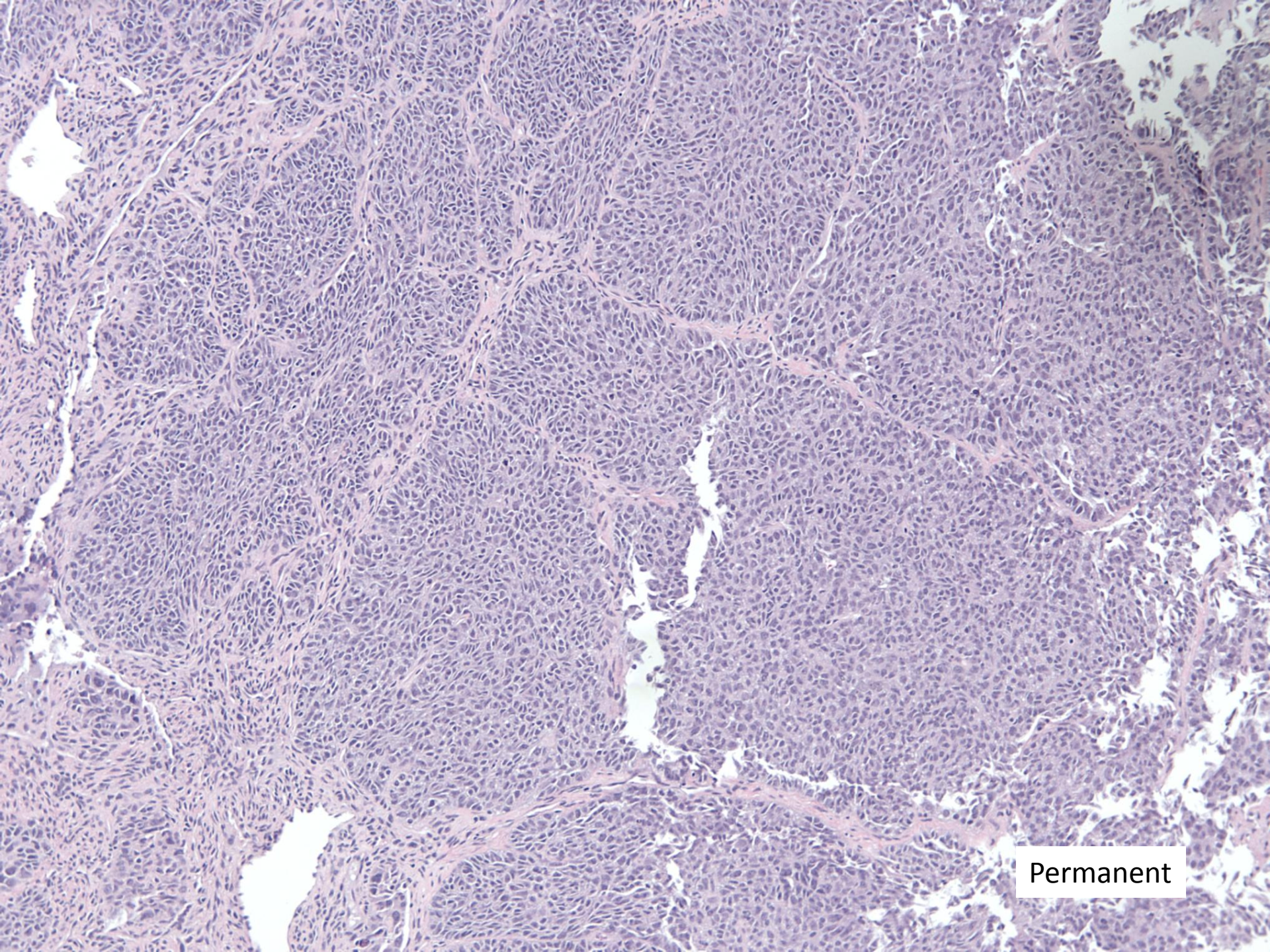


Frozen Section

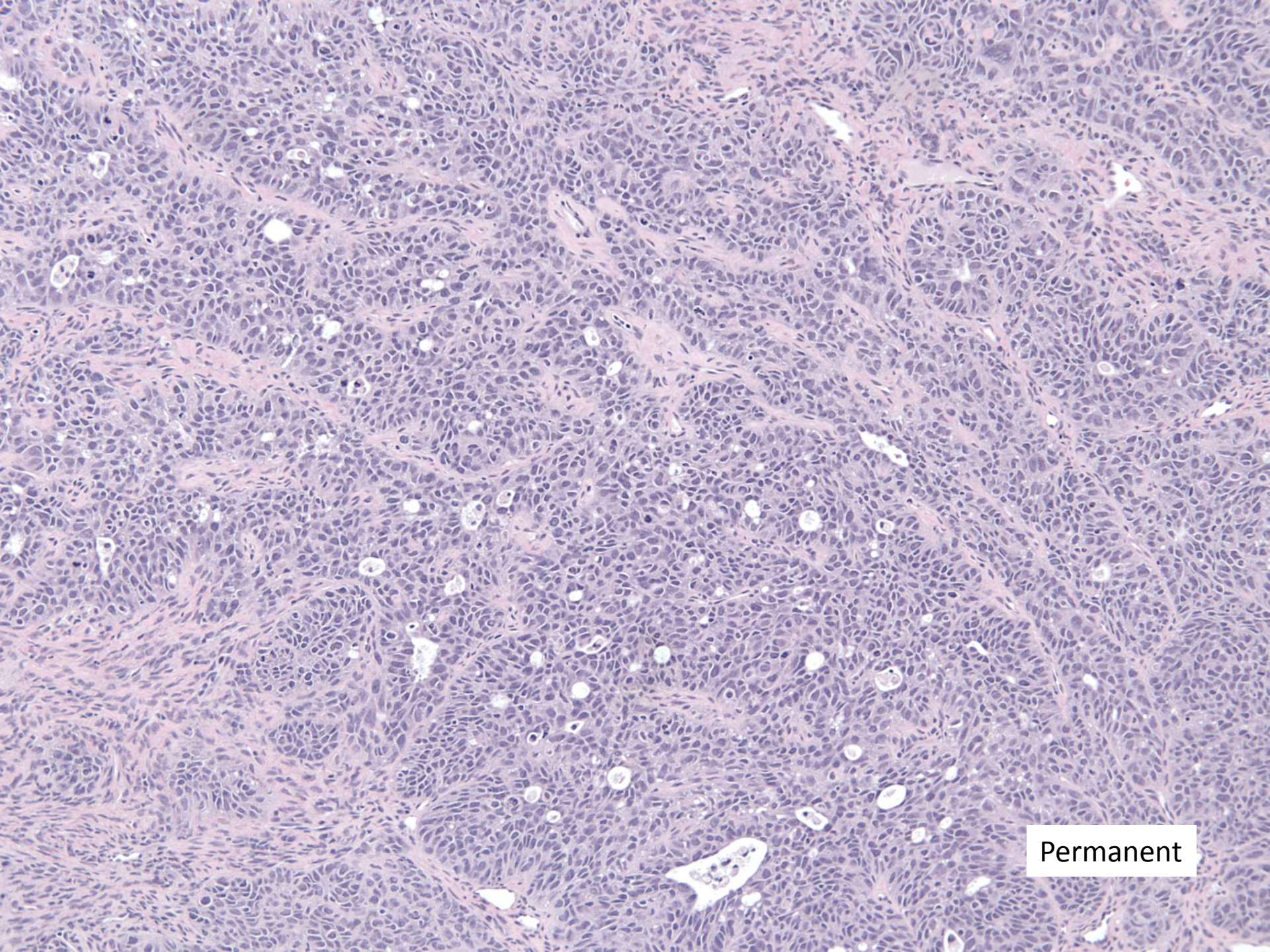


Frozen Section

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Permanent



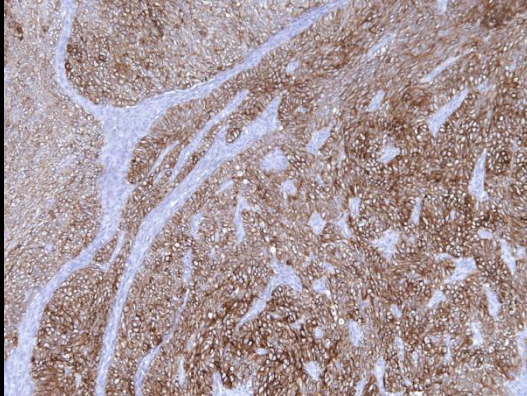
Permanent



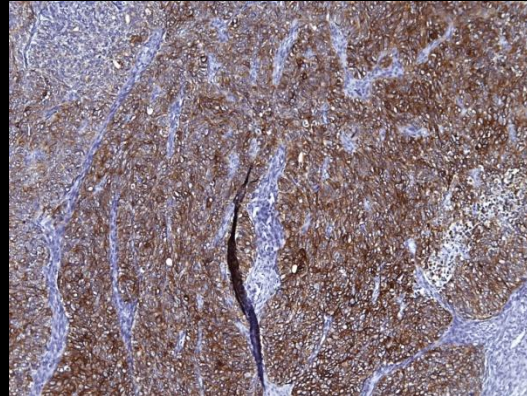
Differential Diagnosis

- Granulosa cell tumor
 - SCT with sertoliform regions
 - Endometrioid carcinoma
 - TCC
 - Others
 - Endometrial stromal sarcoma
 - SmCCa hypercalcemic type
- 

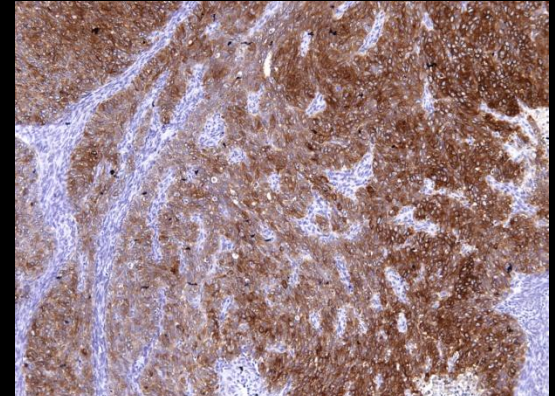
Immunohistochemistry



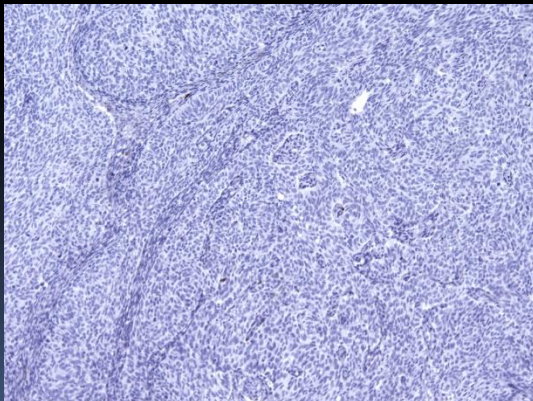
CKmix



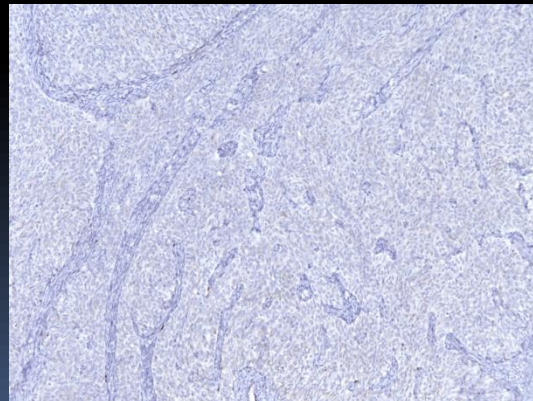
CK 7



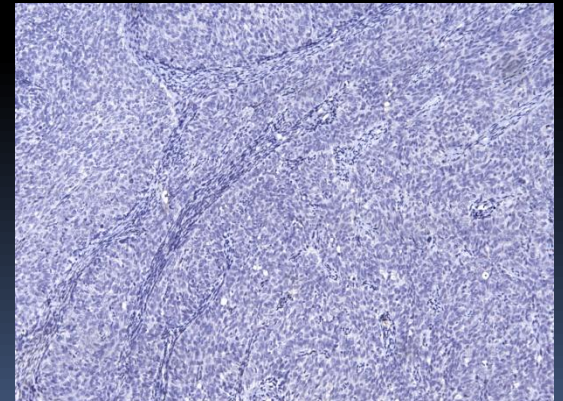
EMA



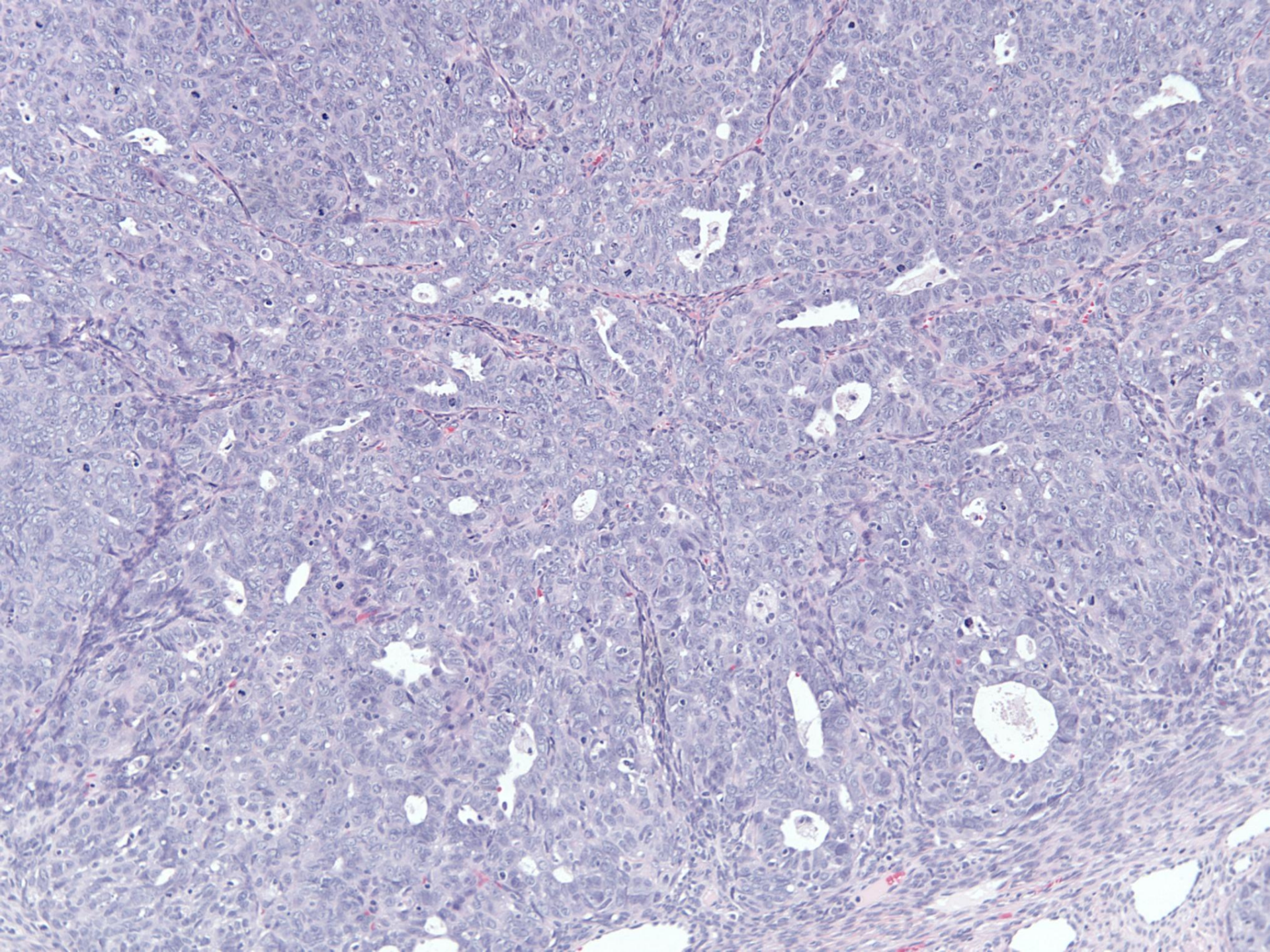
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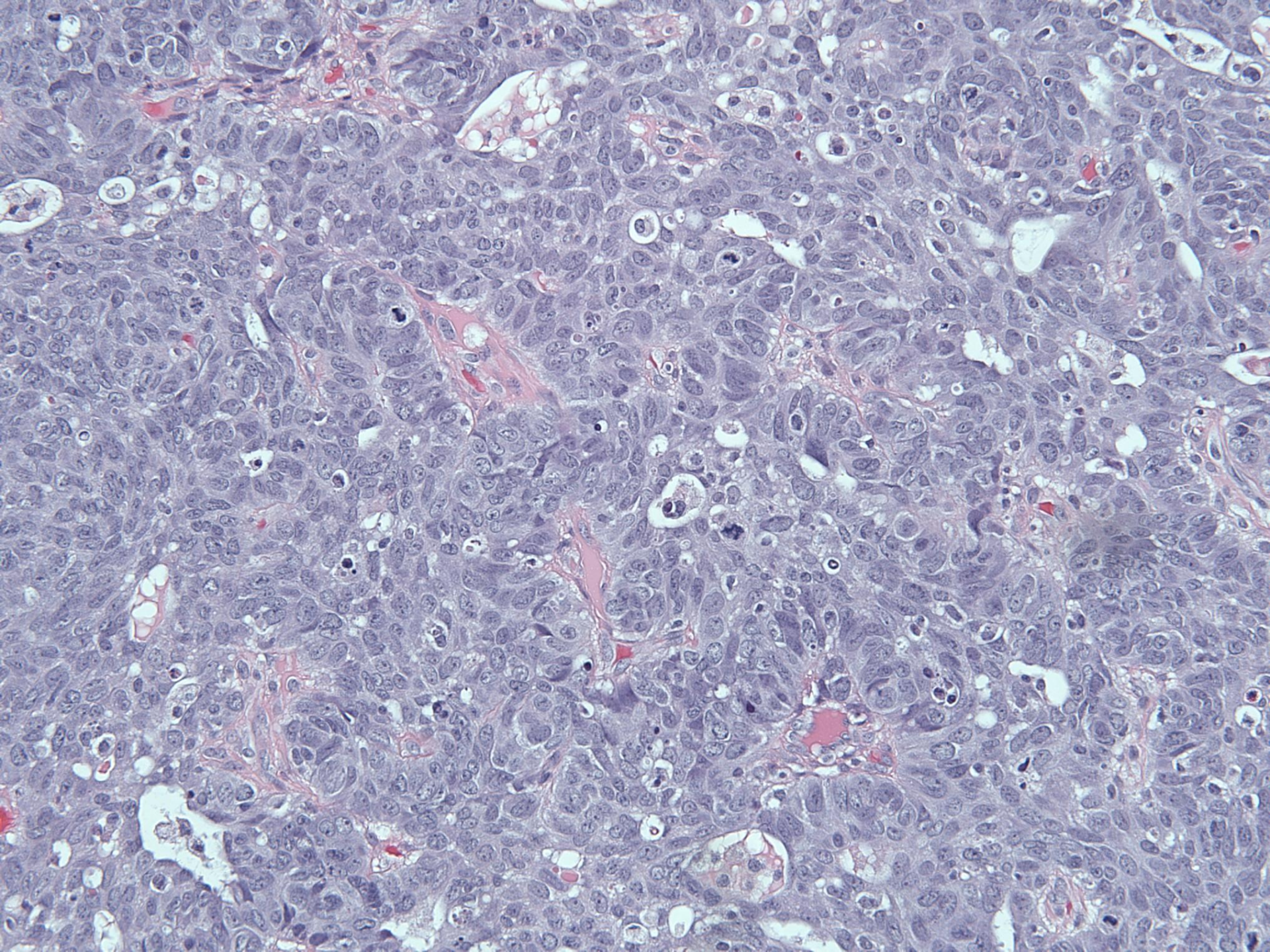


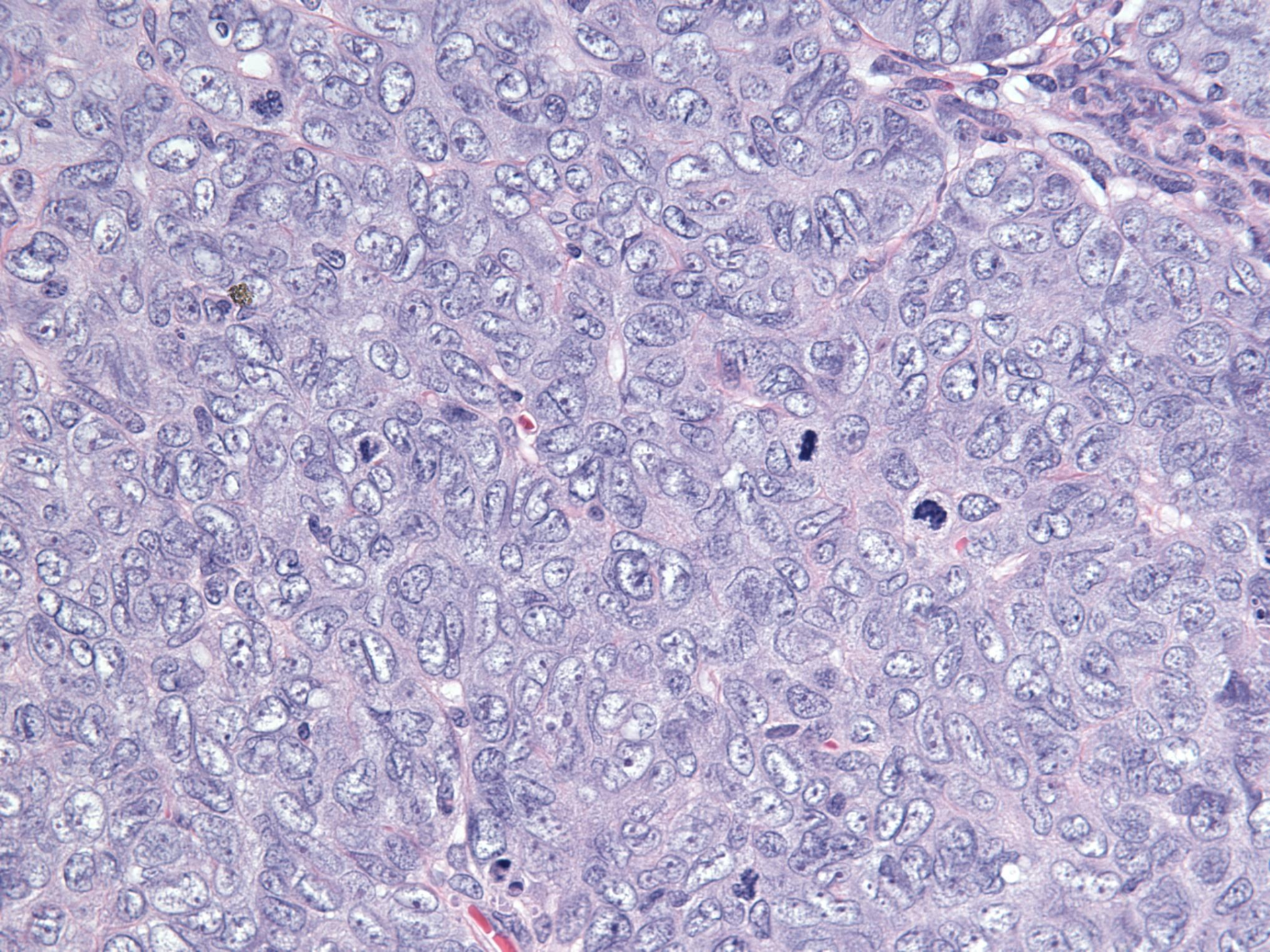
Calretinin



SF-1







Other Findings


- Remaining IHC
 - PAX8+
 - ER+
 - PR+
 - p53-
 - WT1-
 - p63-
 - CK20-
- Stage pT1a (IA)

Diagnosis

High Grade Carcinoma, Favor Endometrioid



Take home points

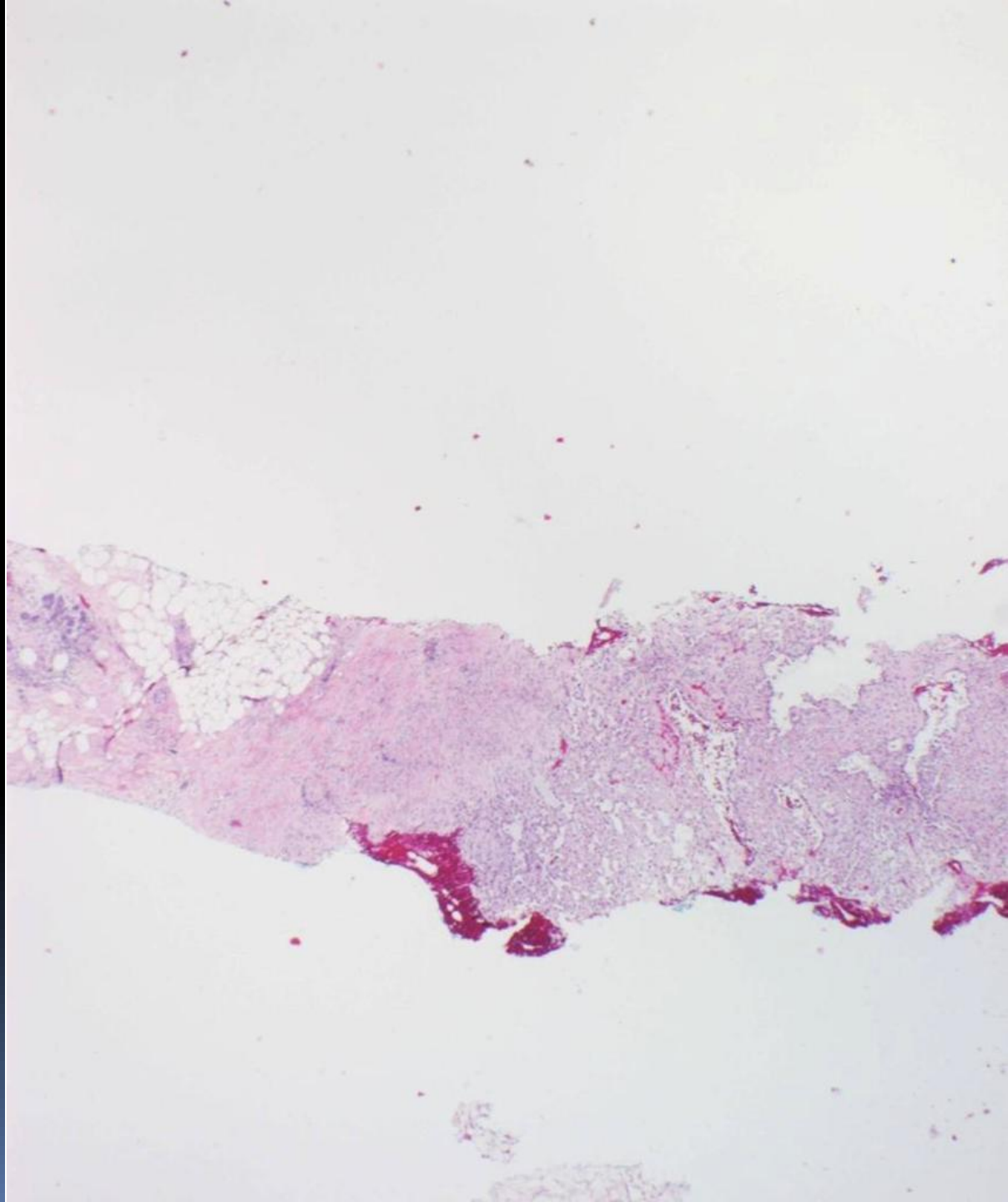
- Ovarian carcinomas can resemble SCT and vice versa
 - Be aware of the issue of sampling bias at frozen section for ovarian carcinomas
 - Clinical correlation can be extremely helpful in ovarian ddx
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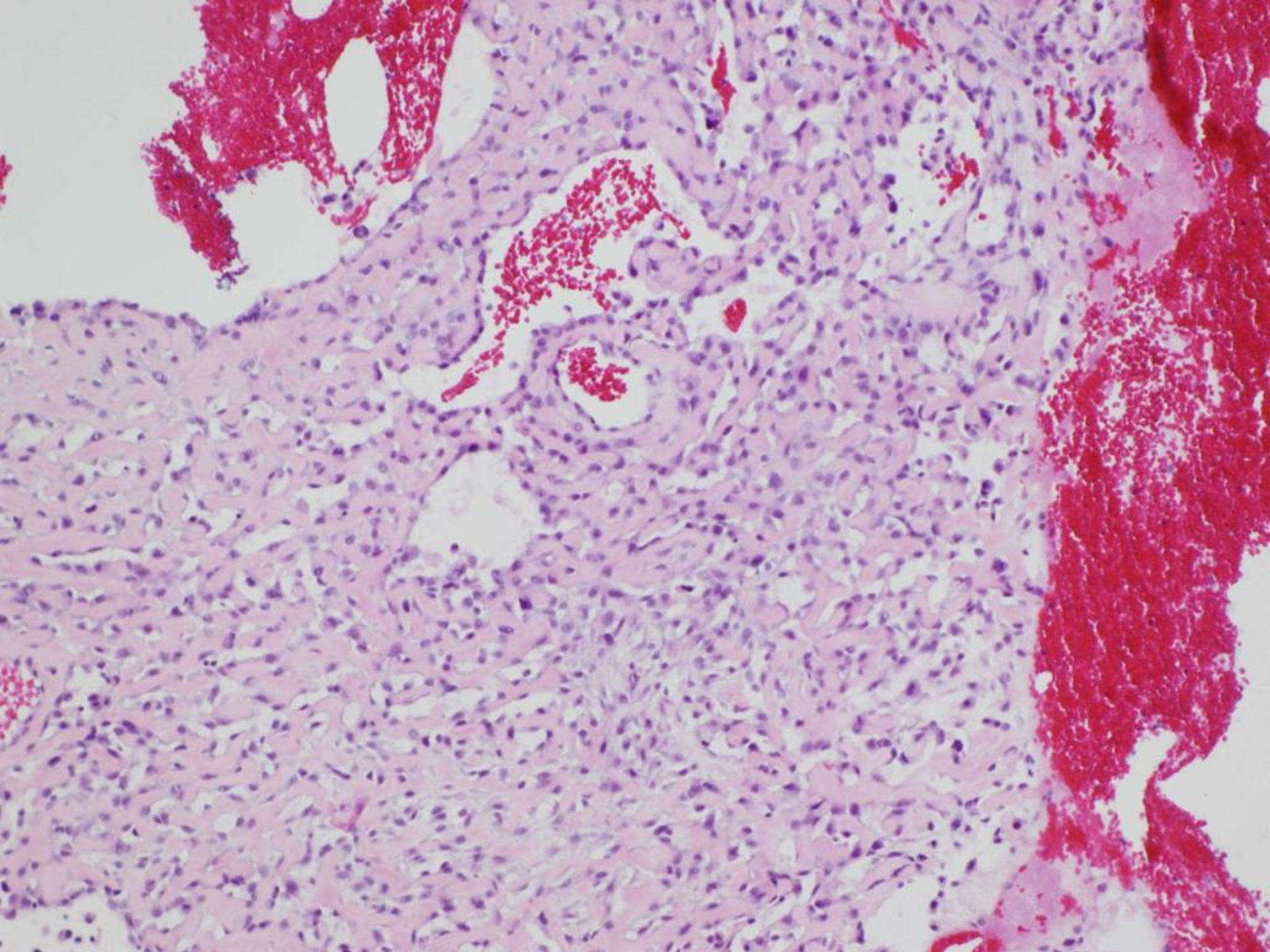


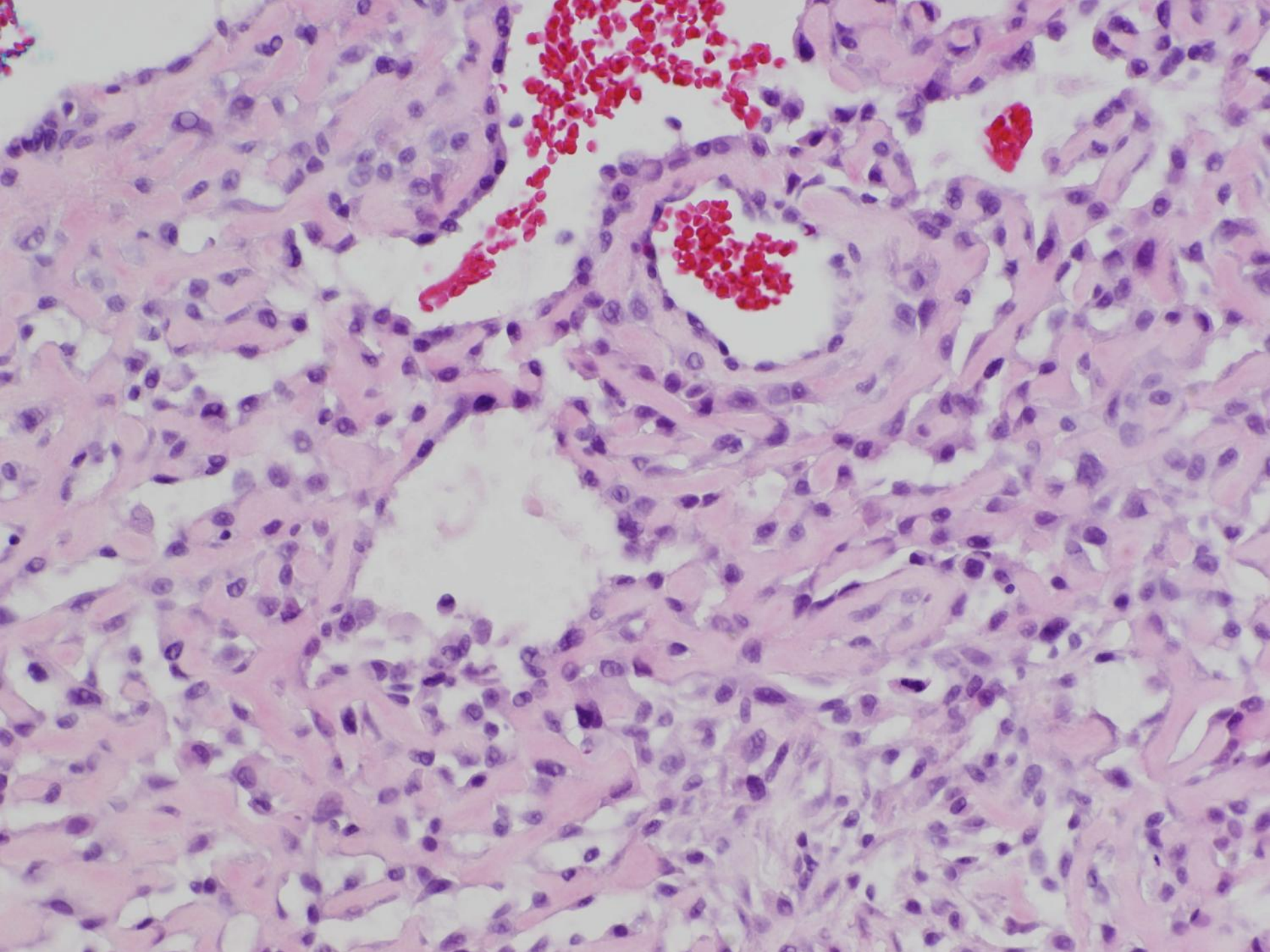
Case submitted by Dr. Gillian Bethune
Capital District Health Authority / Dalhousie University



63 year old female with right breast mass (core biopsy)








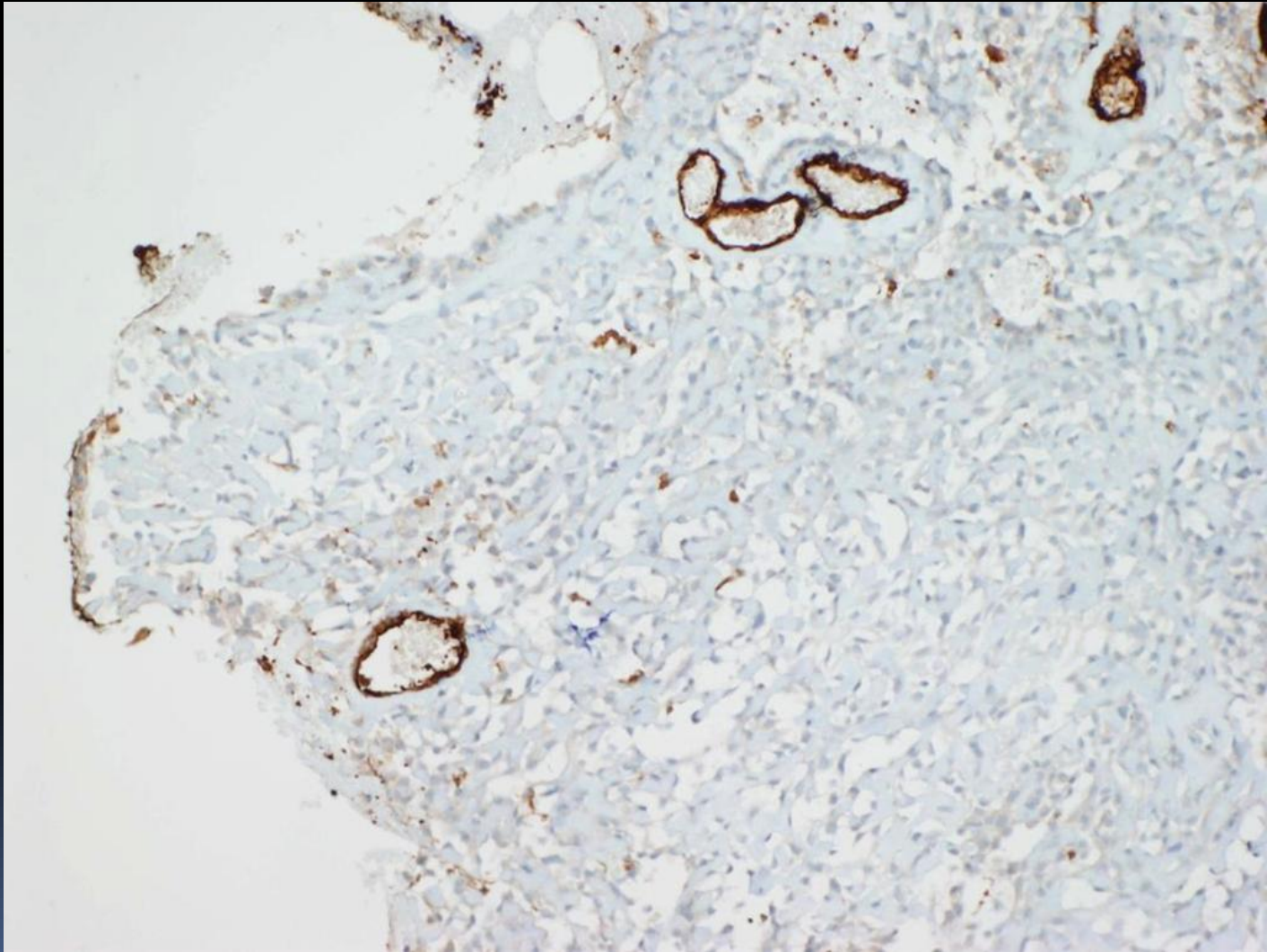
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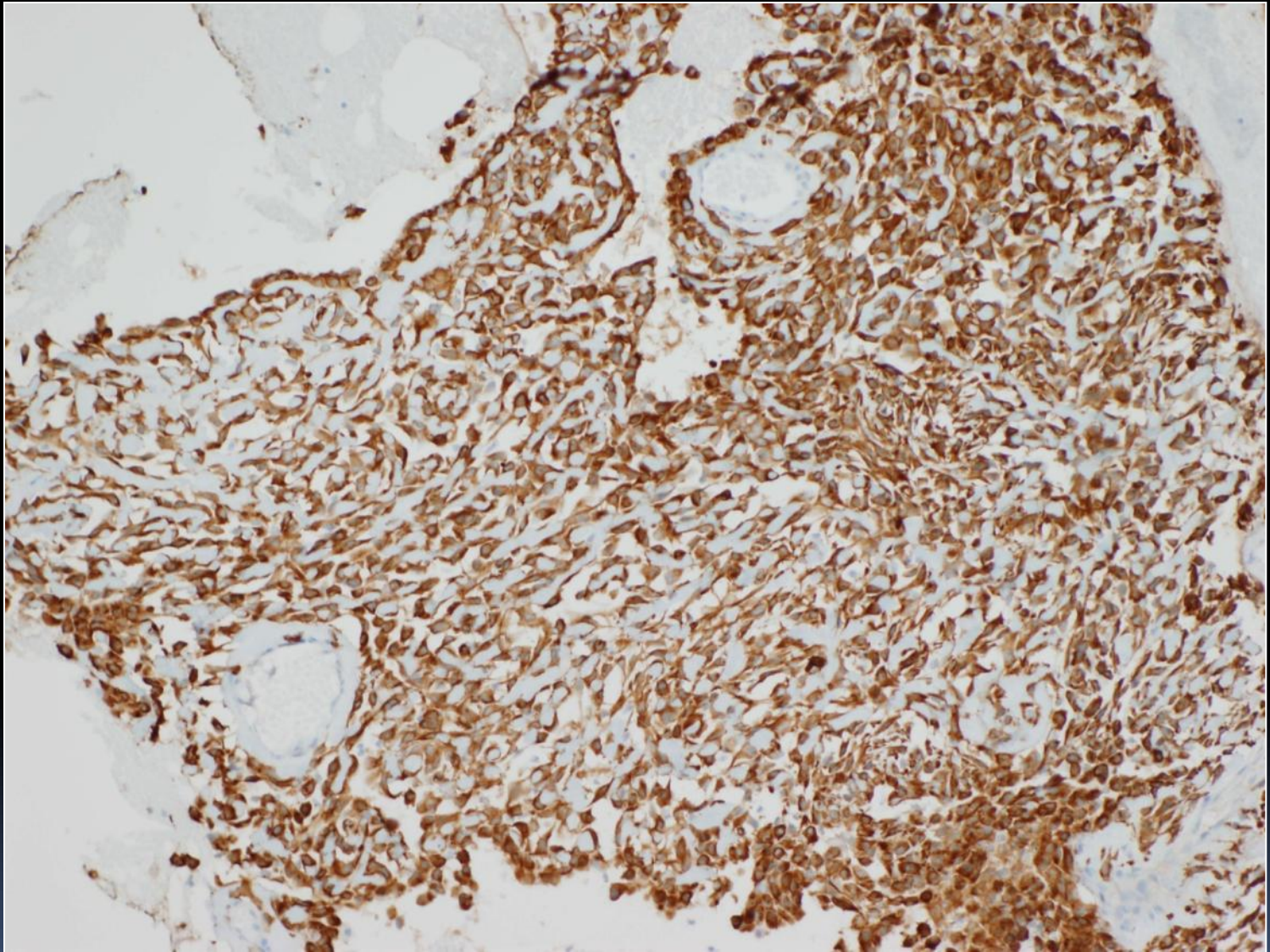
Differential Diagnosis

- Angiosarcoma
 - Metaplastic carcinoma
 - Invasive ductal carcinoma
 - PASH (pseudoangiomatous stromal hyperplasia)
 - Phyllodes tumor
- 

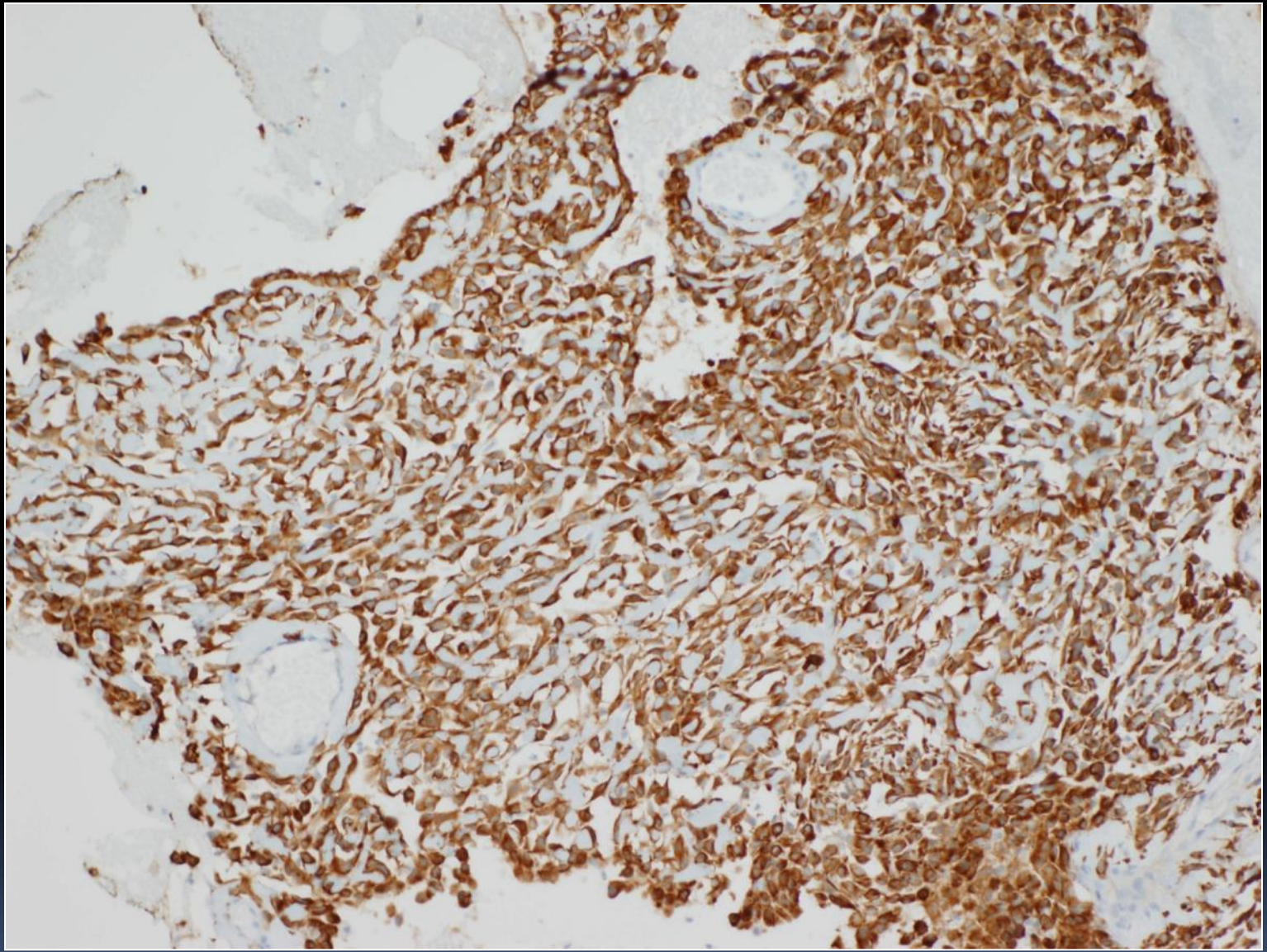
Immunohistochemistry



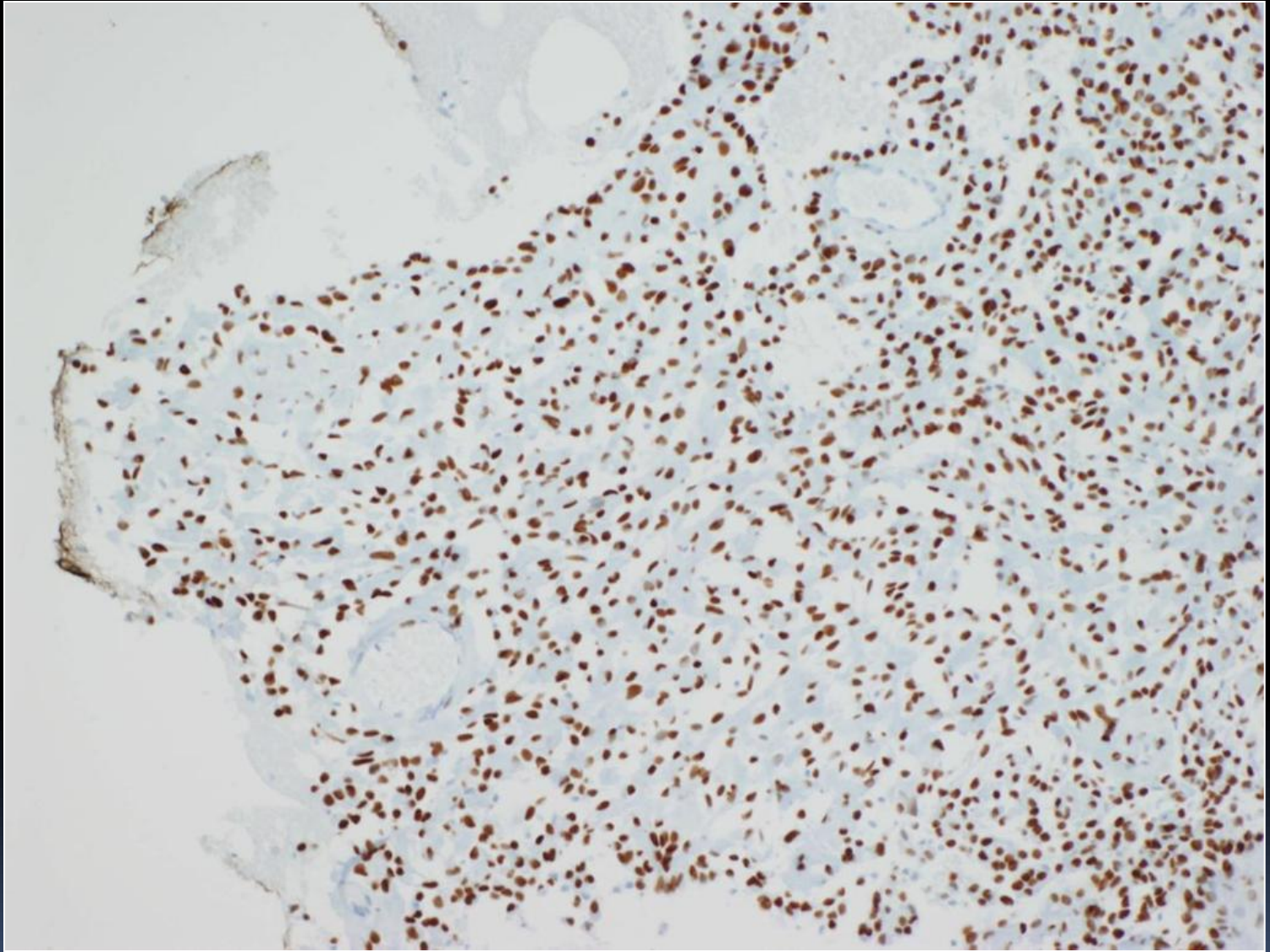
CD31 and other vascular markers



Monokeratin




HMWK

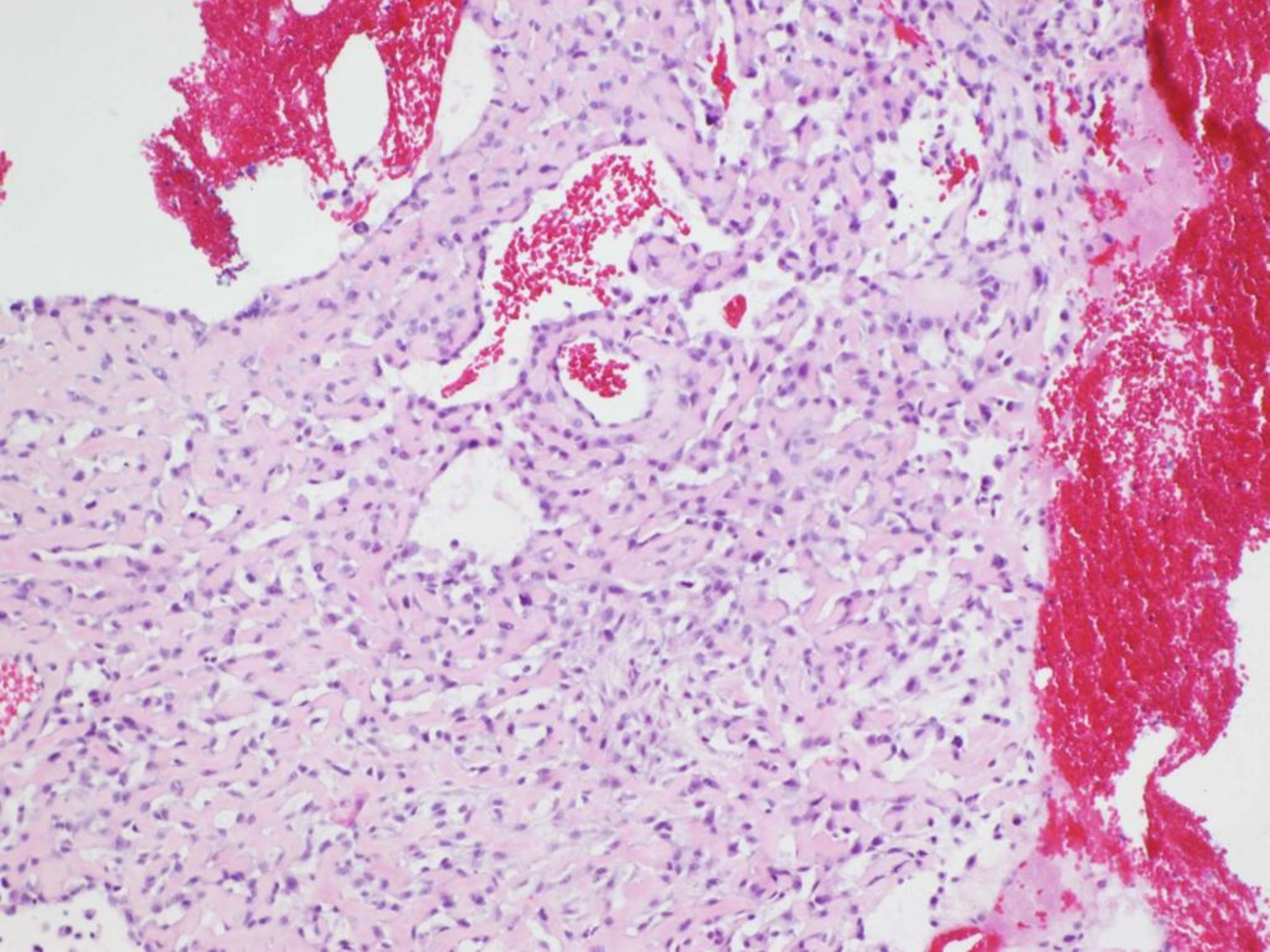


p63




Other Findings

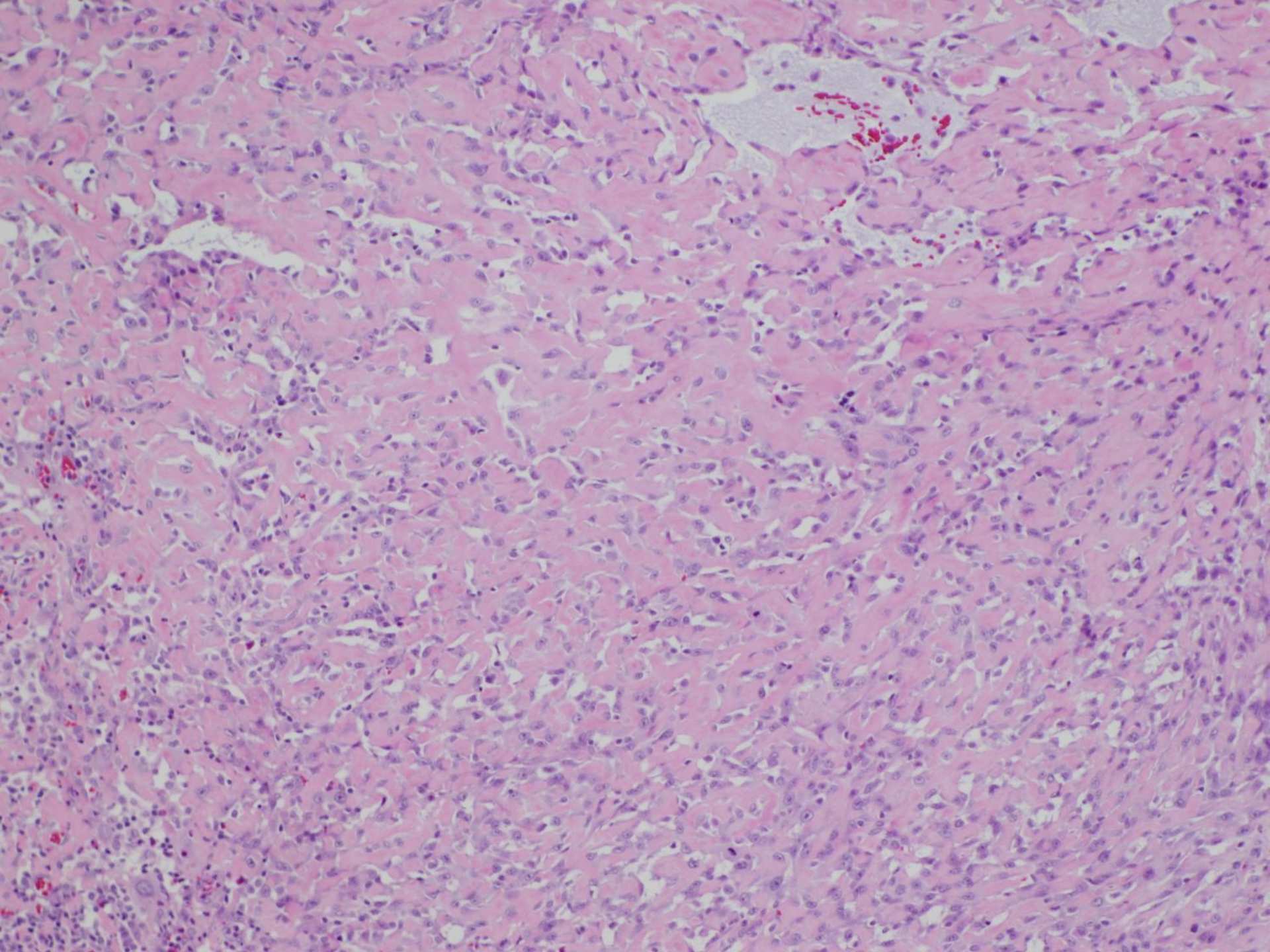
- Remaining IHC
 - S100 -
 - CK7 -
 - CD34 -
 - Desmin -
 - ER -
 - PR -
 - HER2 -
 - No areas of conventional ductal carcinoma, spindle cell carcinoma, or mesenchymal elements on core.
 - No DCIS
- 

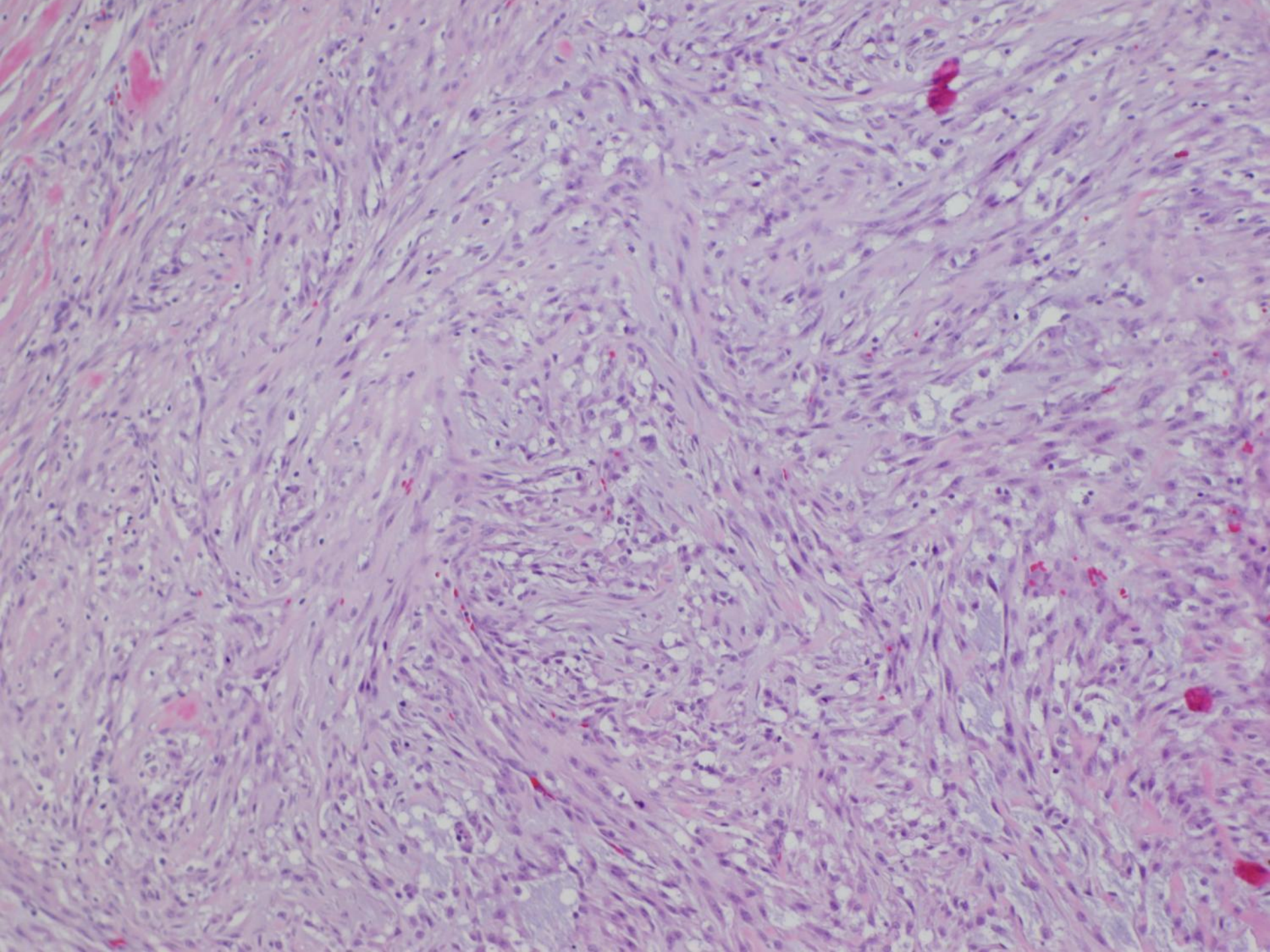




Diagnosis

- BREAST (RIGHT), CORE BIOPSY:
 - INVASIVE CARCINOMA WITH PROMINENT PSEUDOANGIOMATOID PATTERN.
 - SEE COMMENT.
 - Comments:
 - Suggestive of metaplastic carcinoma, acantholytic/pseudoangiomatoid variant of squamous cell carcinoma
 - Definitive classification at excision
 - Cannot rule out metastatic squamous cell ca
- 





Metaplastic carcinoma

- 'A group of neoplasms characterized by differentiation of the neoplastic epithelium into squamous cells and/or mesenchymal-looking elements.'
- May be entirely composed of metaplastic elements or a mixture of carcinoma and metaplastic areas.

