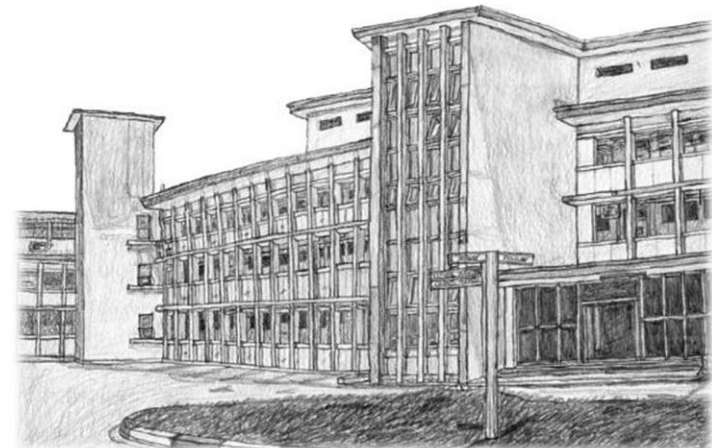
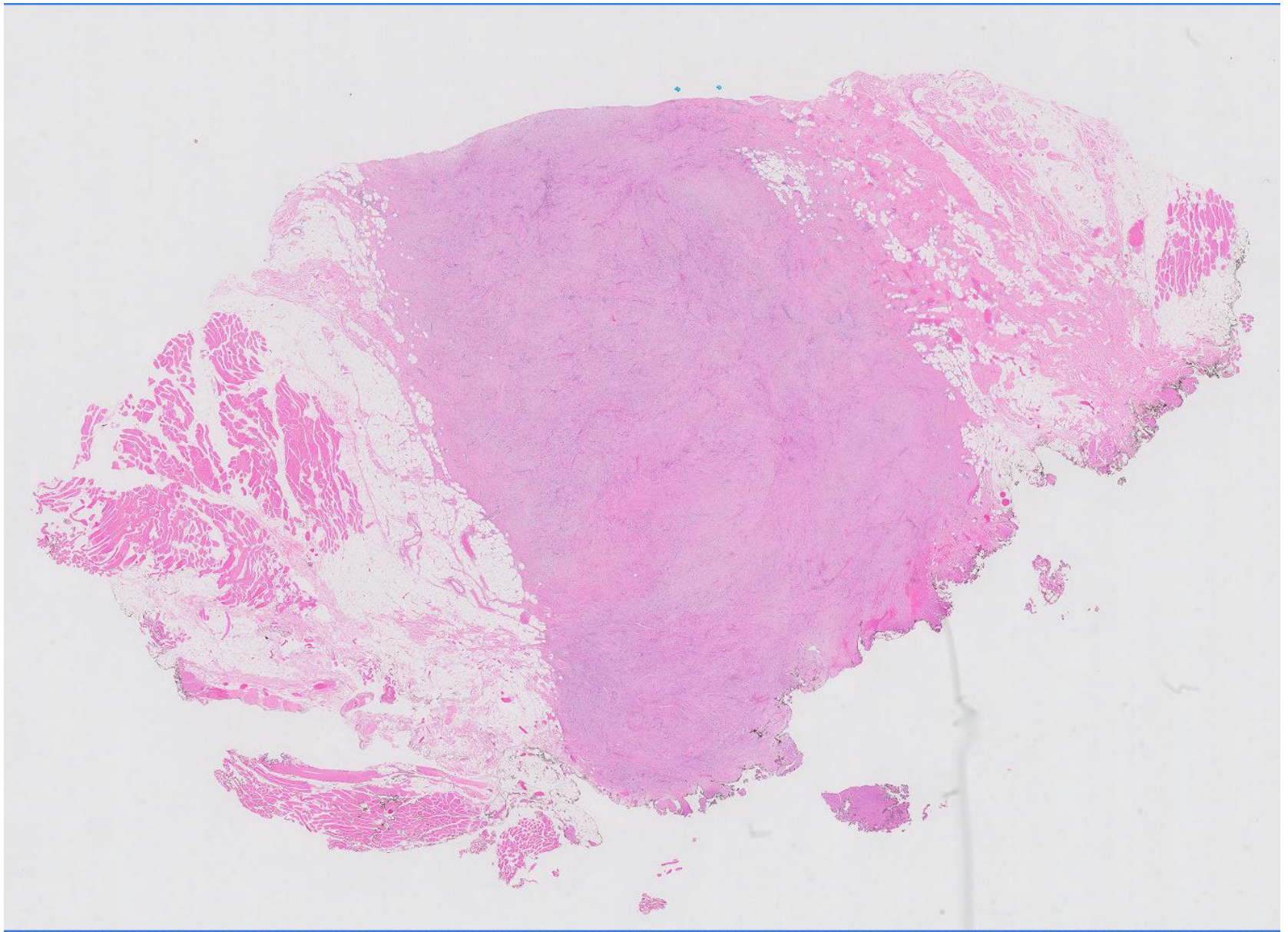


Case 29

83 year old male.

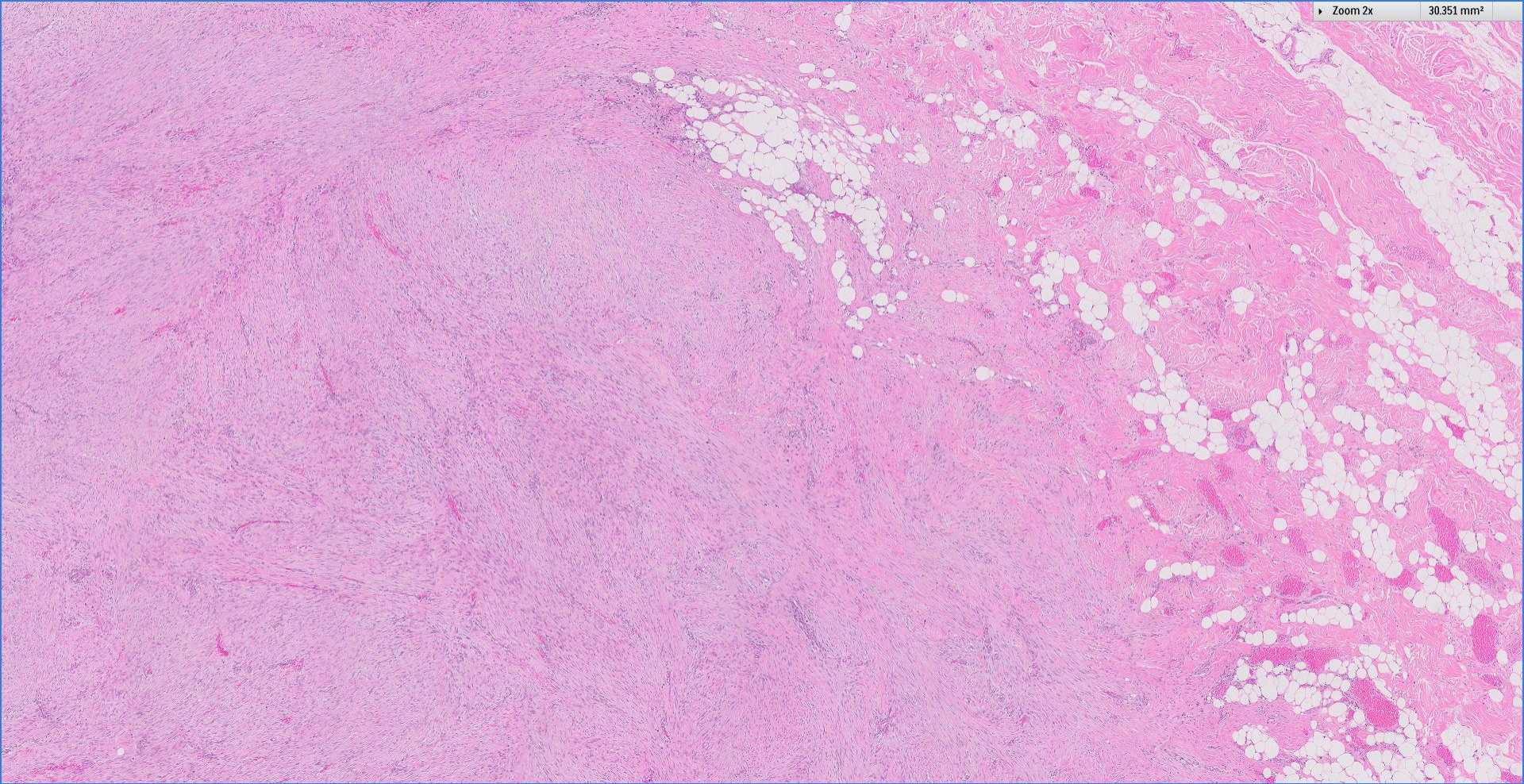
Right breast mastectomy.





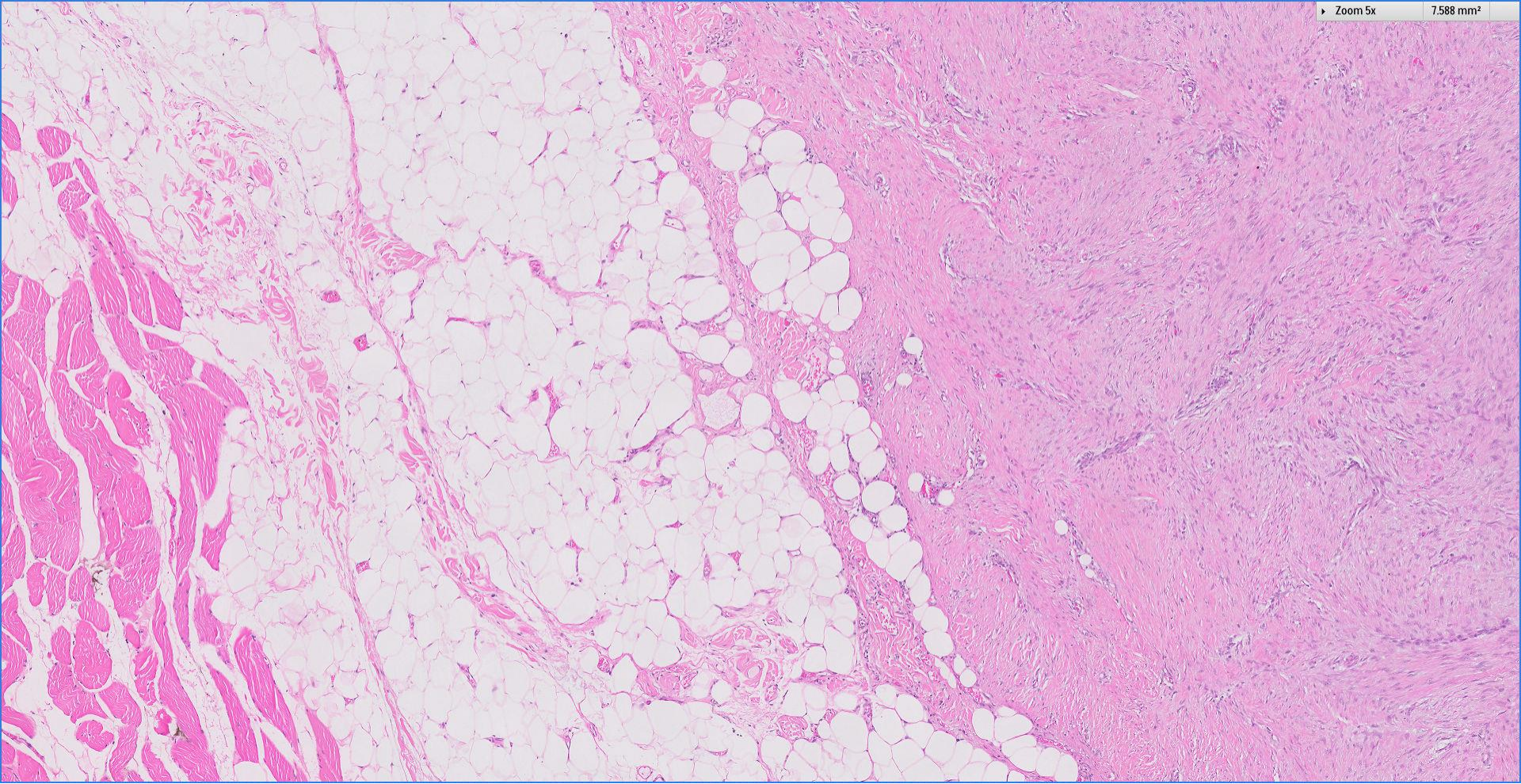
Zoom 2x

30.351 mm²



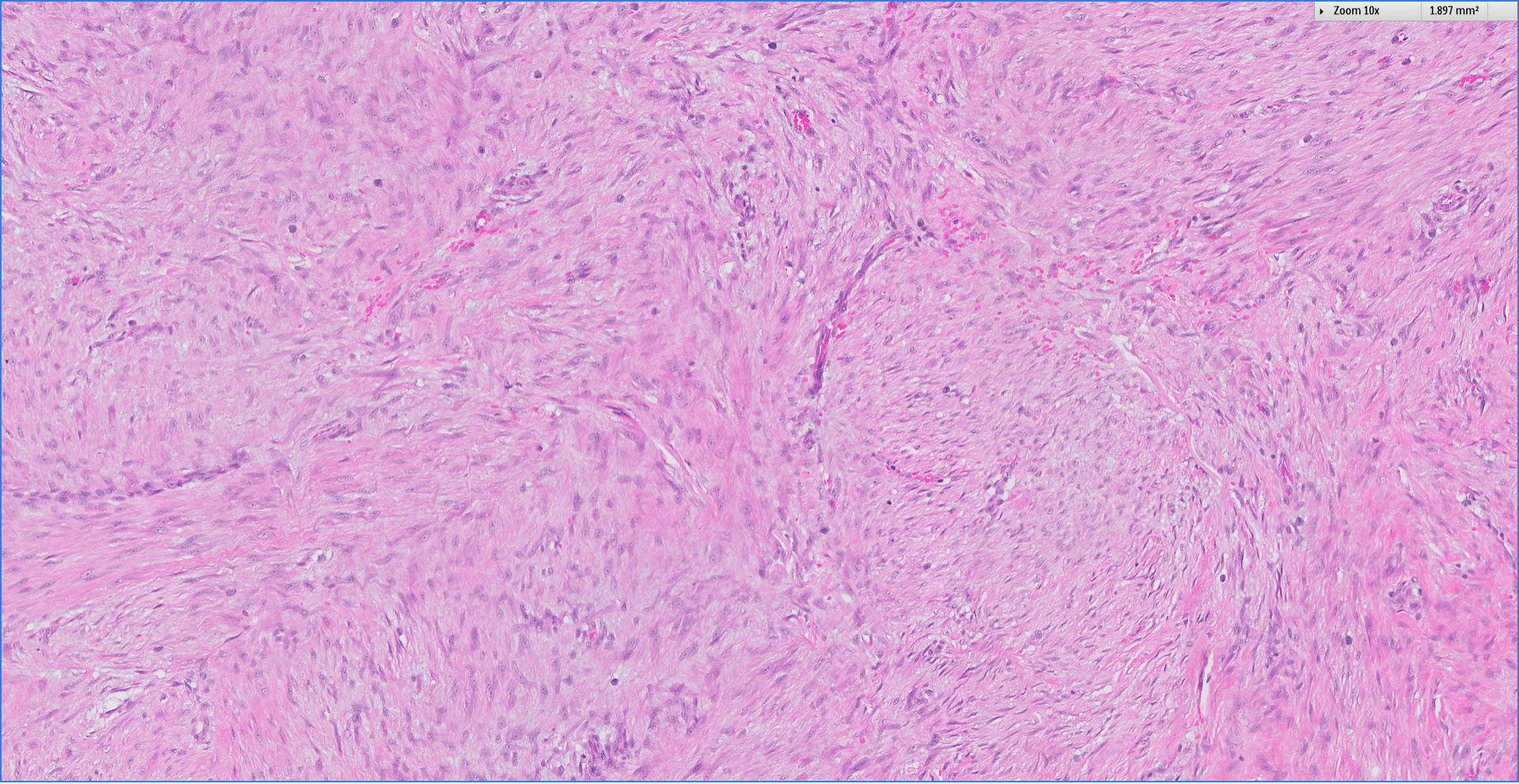
► Zoom 5x

7.588 mm²



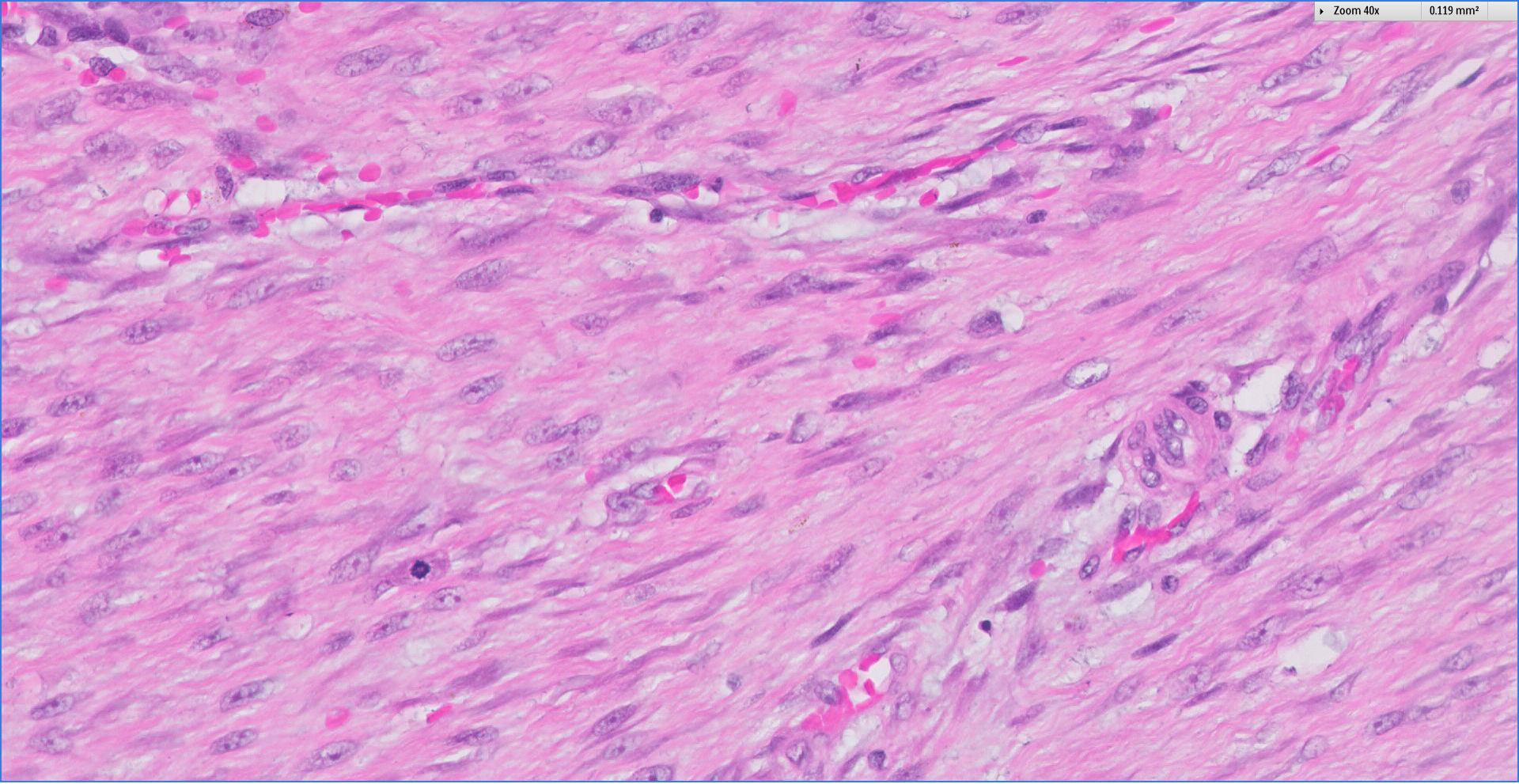
Zoom 10x

1.897 mm²

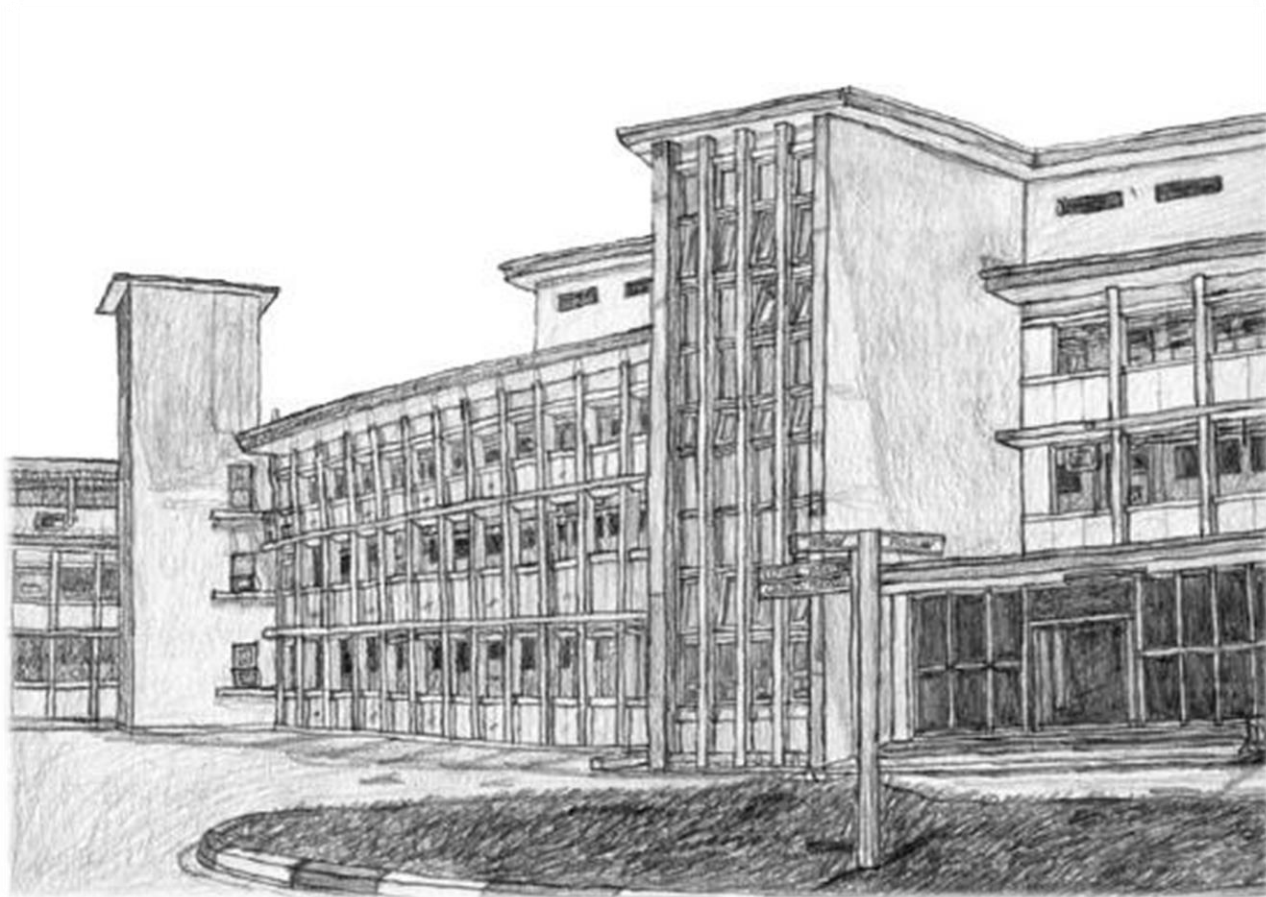


Zoom 40x

0.119 mm²



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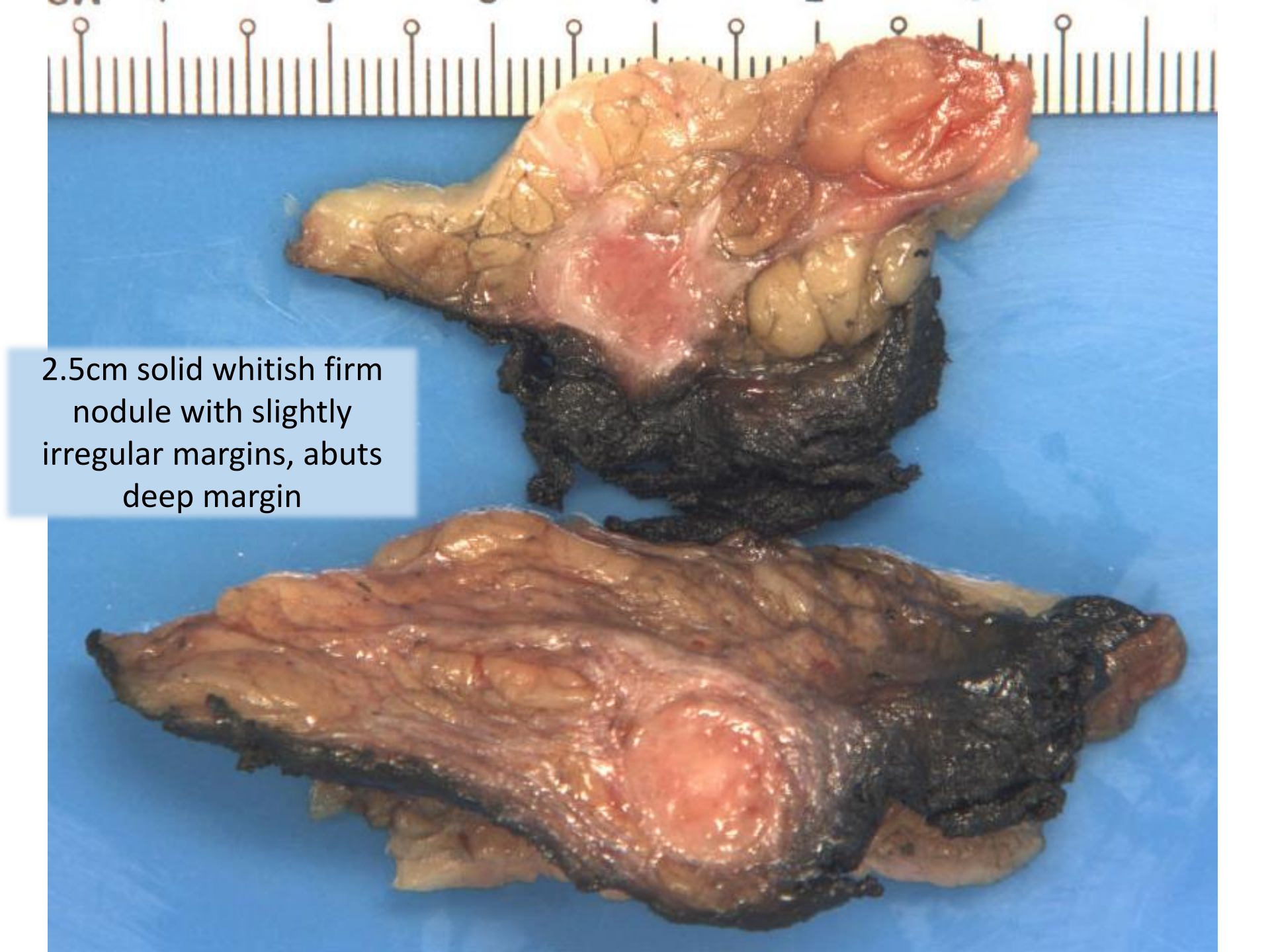
SingHealth
Division of Pathology

 SingHealth DukeNUS
ACADEMIC MEDICAL CENTRE

PATHOLOGY

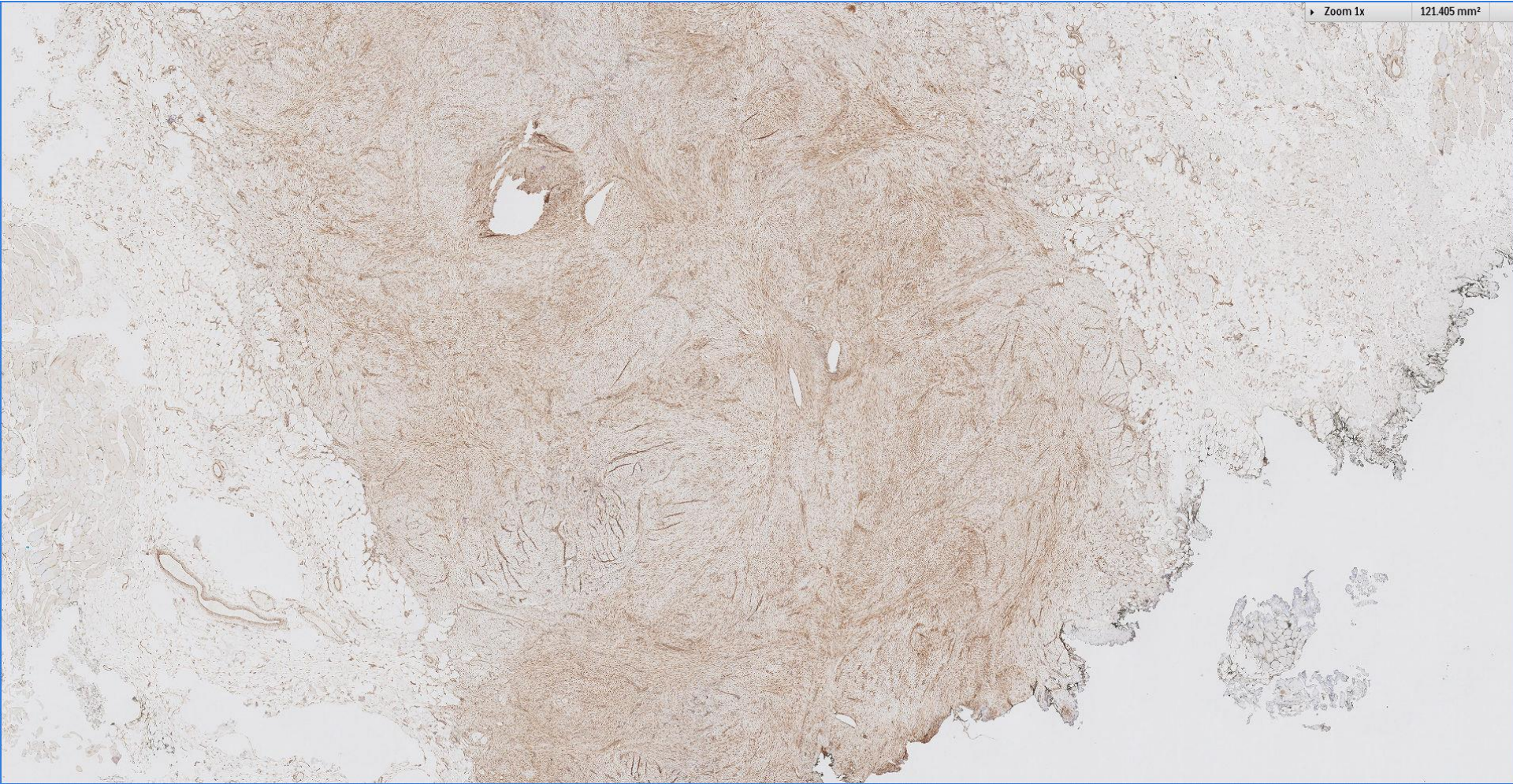
IAP

International Academy of Pathology
Singapore Division

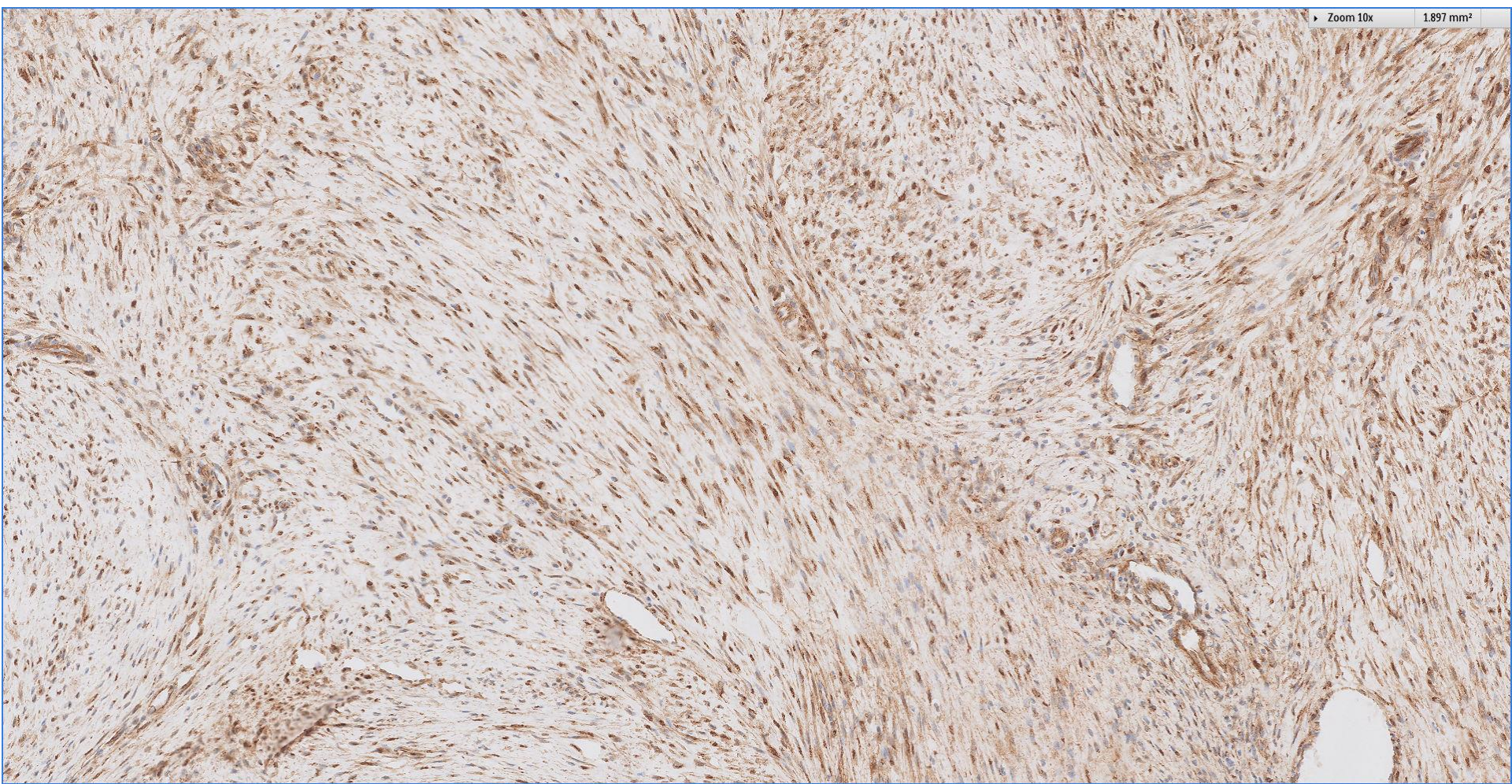
The image shows two views of a surgical specimen. The top view shows a 2.5cm solid whitish firm nodule with slightly irregular margins, abuts deep margin. The bottom view shows a longitudinal section of the specimen, revealing a central, well-circumscribed, reddish-pink nodule surrounded by a thick, fibrous capsule. The specimen is placed on a blue surgical drape with a ruler for scale.

2.5cm solid whitish firm
nodule with slightly
irregular margins, abuts
deep margin

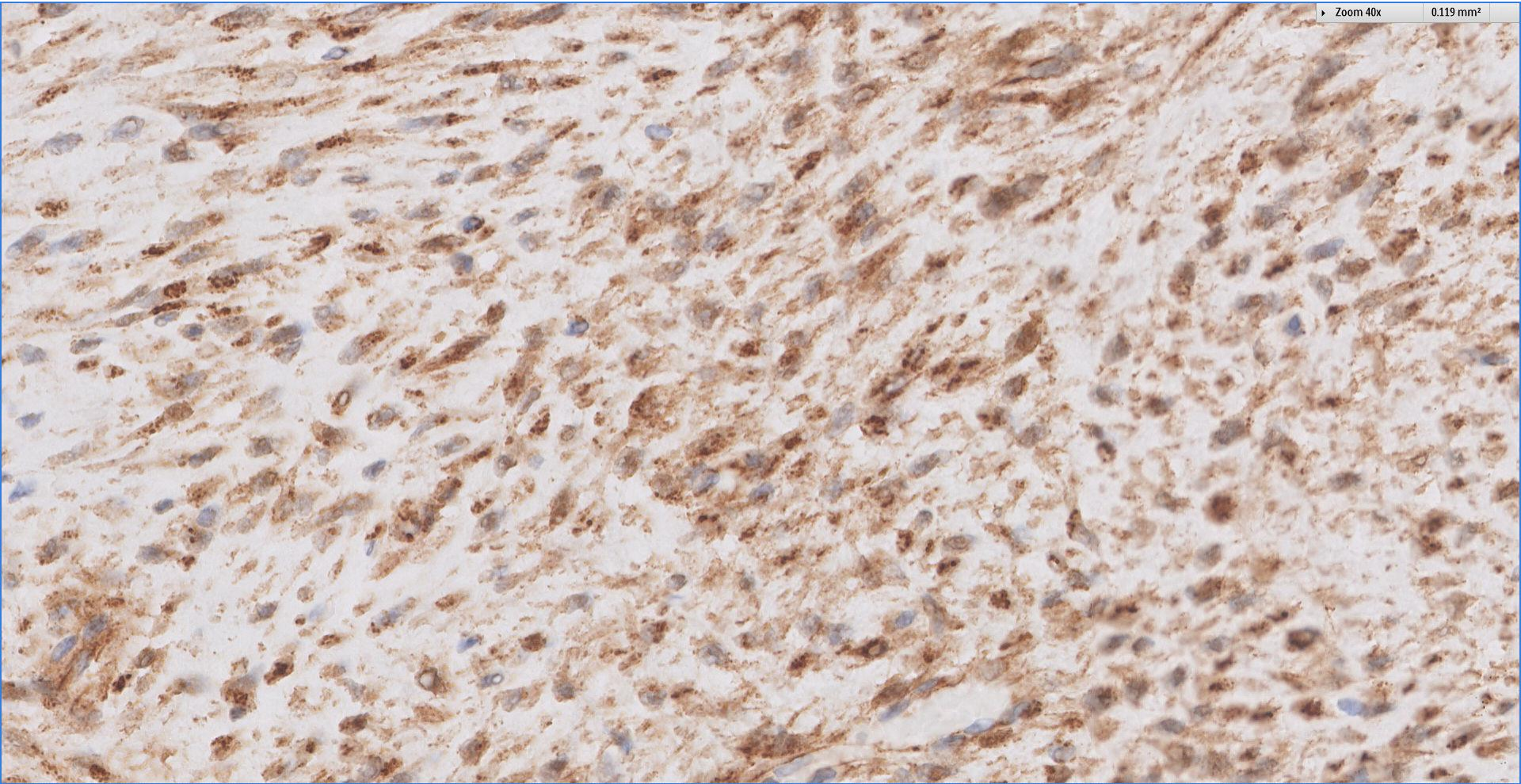
β -catenin



β -catenin



β -catenin



Additional immunohistochemistry

- Patchy positive staining for SMA.
- Negative for MNF116, AE1/3, p63, S100, desmin, CD34.
- Ki67 proliferative fraction of < 5%.

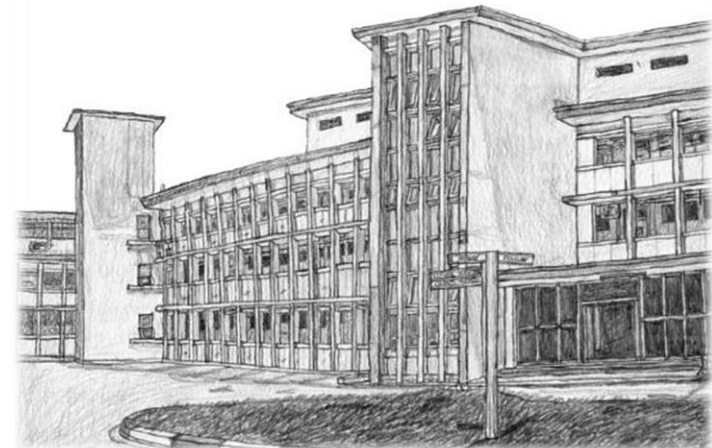


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Diagnosis

Fibromatosis



Fibromatosis (desmoid-type)

- Locally infiltrative lesion without metastatic potential that arises from fibroblasts or myofibroblasts.
- Can occur within the breast parenchyma, but frequently arises from the pectoral fascia and extends into the breast.
- Association with previous trauma, particularly surgery, including implants.
- Mimics cancer radiologically ~ spiculated mass.
- Resembles fibromatosis from other sites.



Fibromatosis (desmoid-type)

- Composed of long, sweeping and intersecting fascicles of bland spindle cells.
- A small proportion show nuclear atypia, but this is usually mild.
- Most show no mitoses, but a few may be seen.
- Cellularity may be variable, with collagenous areas.
- The edge is infiltrative and may invade around normal structures.
- Lymphocytes are often present at the edge, with lymphoid follicles occasionally seen.

Fibromatosis (desmoid-type)

~ beta catenin

- Nuclear expression of beta-catenin is seen in about 80% of cases.
- Beta-catenin can also be expressed in spindle cell carcinoma, phyllodes tumours and fibrosarcoma.
- Expression of beta-catenin appears to be negative in scar and nodular fasciitis, although expression in a keloid has been reported.
- Clonal, with activating mutations in the beta-catenin gene in 45% of cases; mutations in the adenomatous polyposis coli gene or 5q loss in 33% of cases.

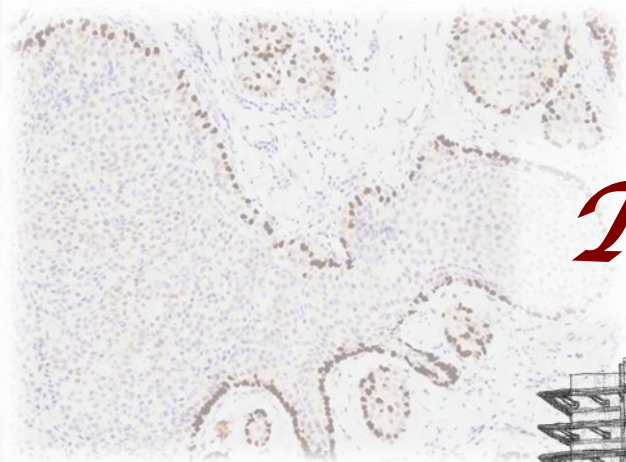
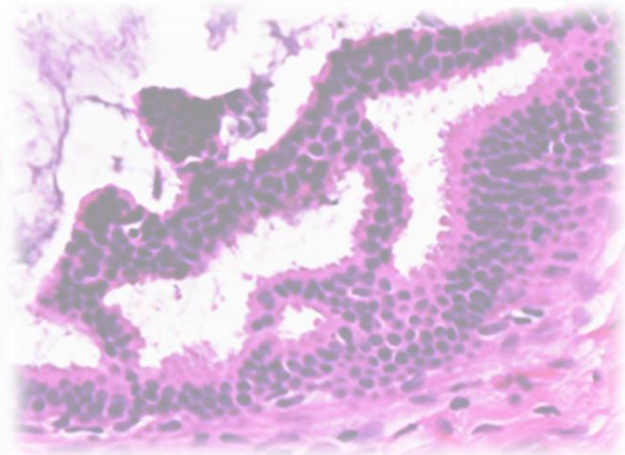
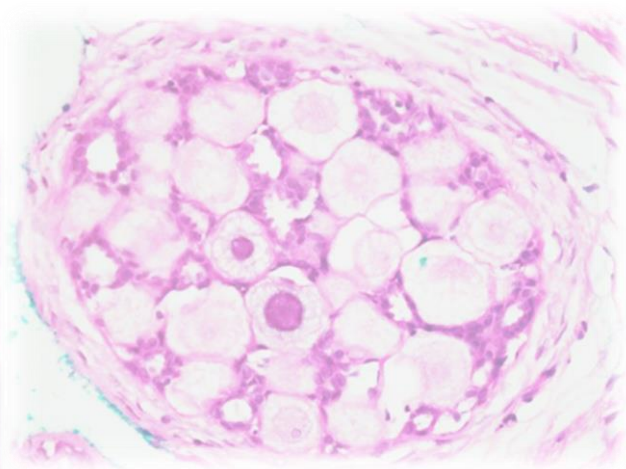
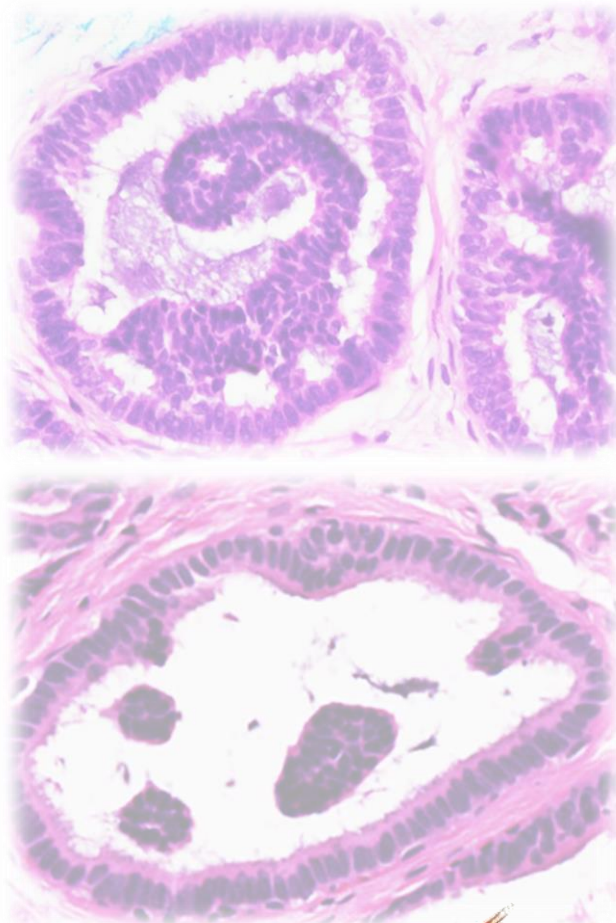


Fibromatosis

- Local recurrence is reported in 20–30% of cases.
- Recurrence typically occurs within 3 years of diagnosis and there is evidence that it is associated with incomplete excision.
- Rarely, complete resolution without treatment is described.
- No predictors of response to systemic treatment or radiation.



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Thank you!

