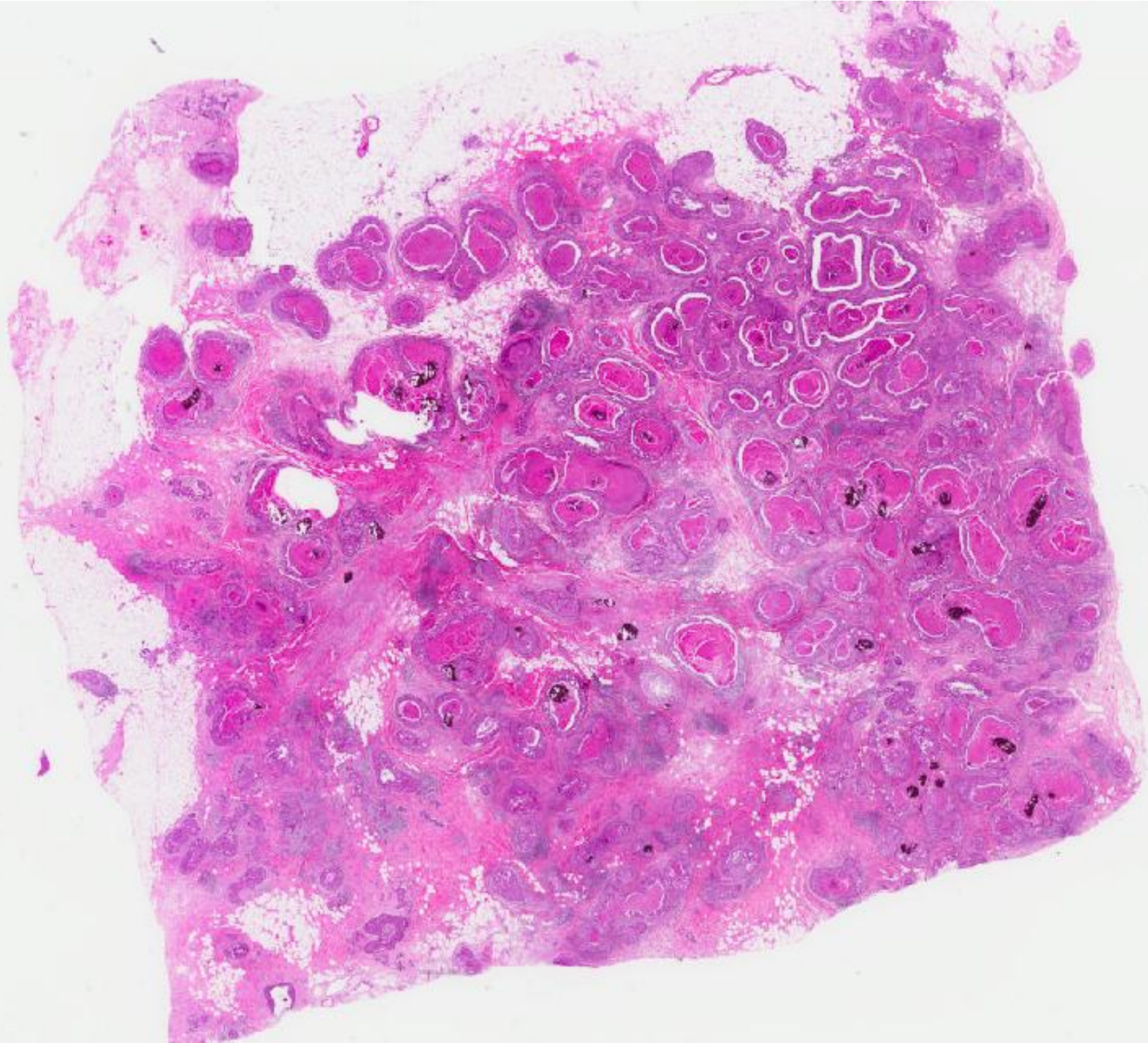


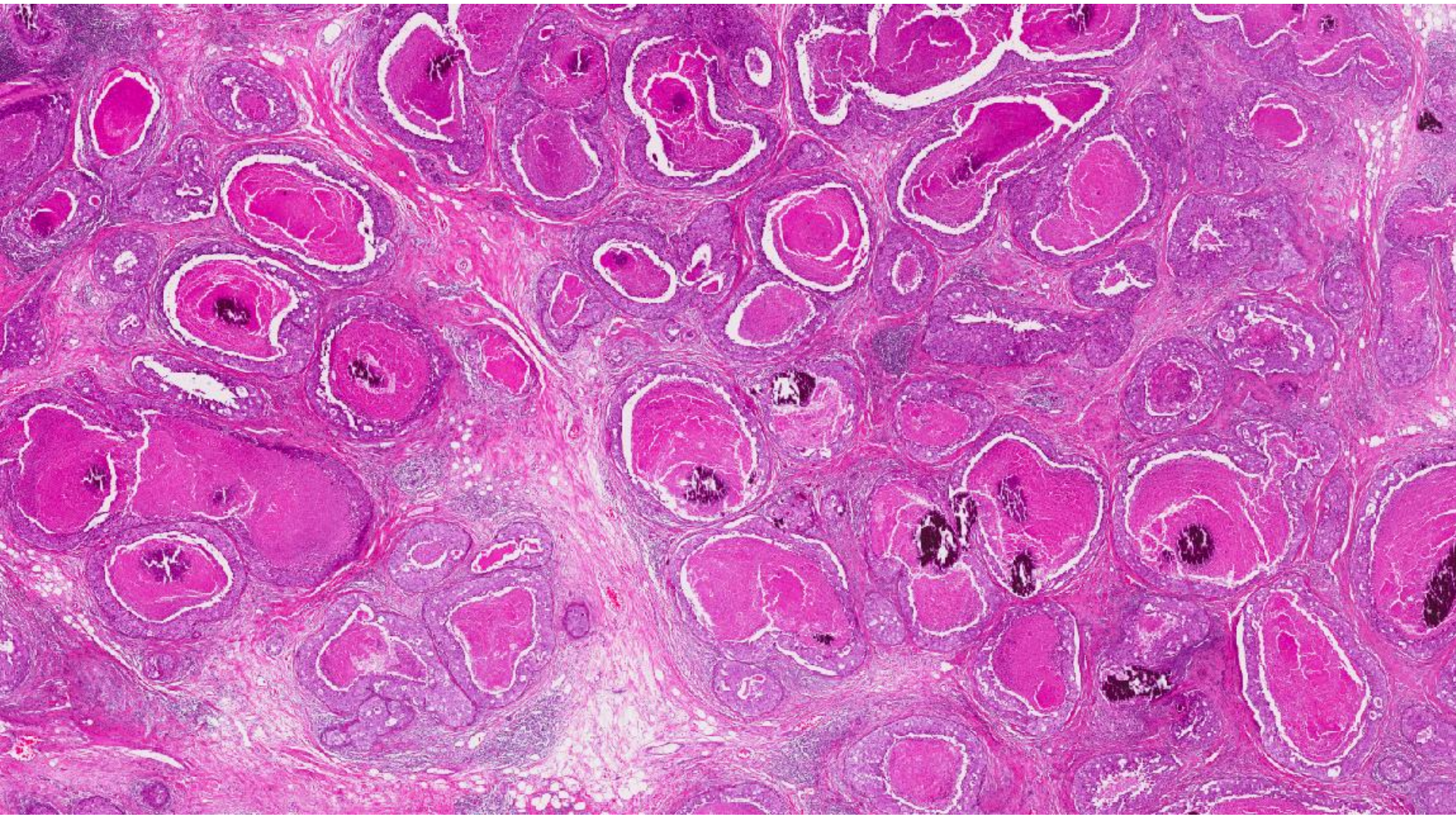
Case 16

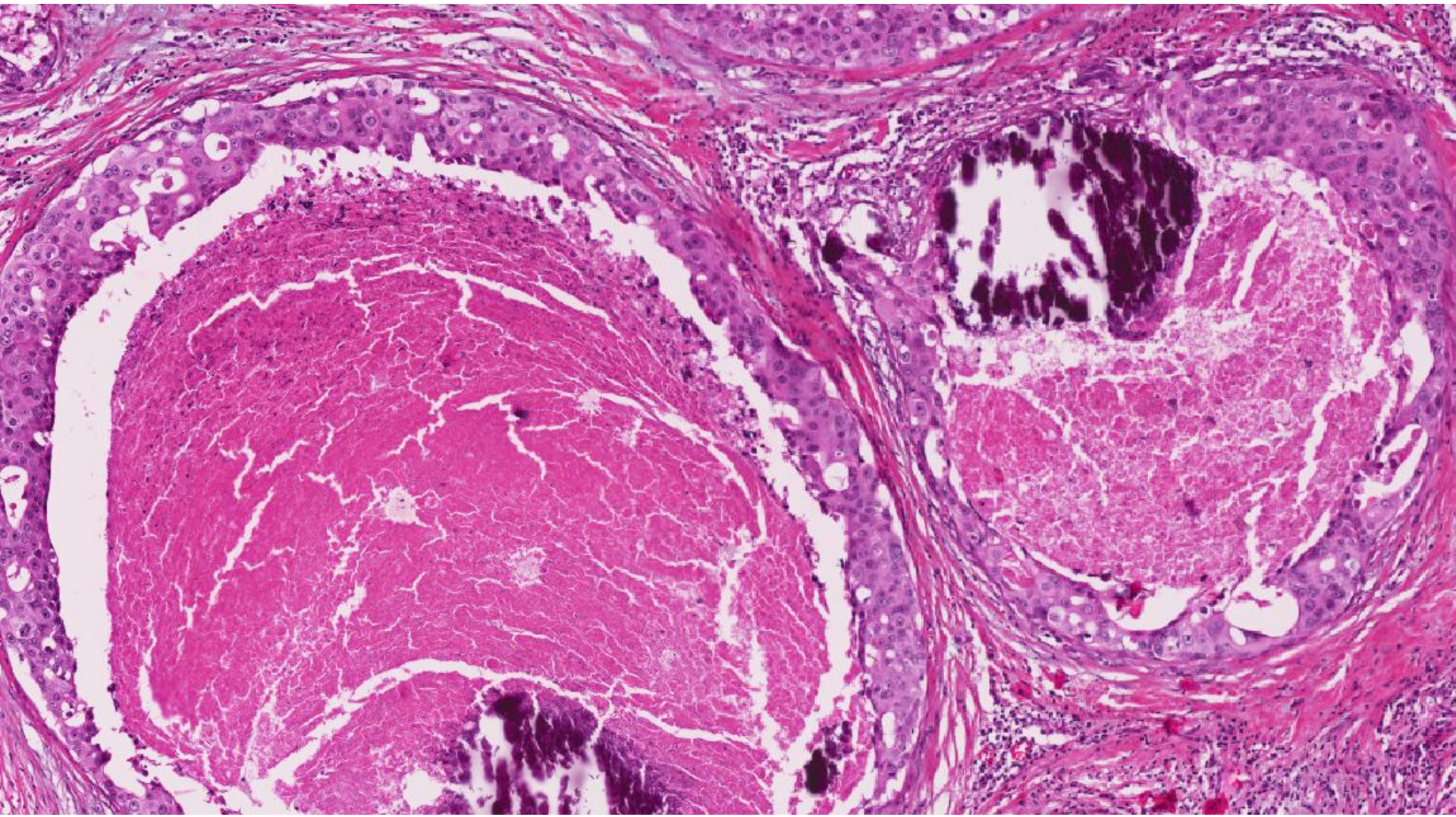
53 year old Chinese lady.

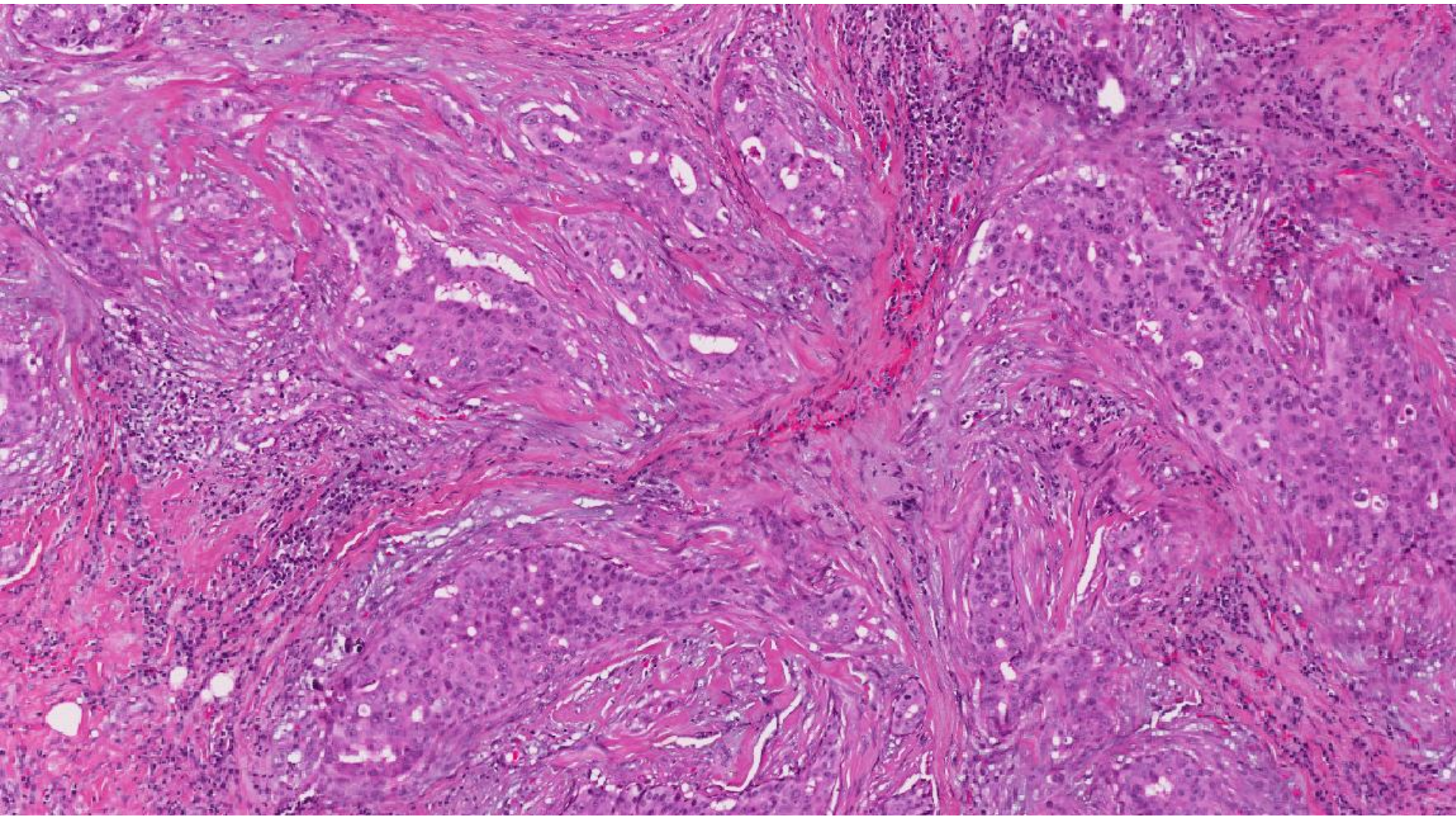
Right breast mastectomy with sentinel lymph node sampling.

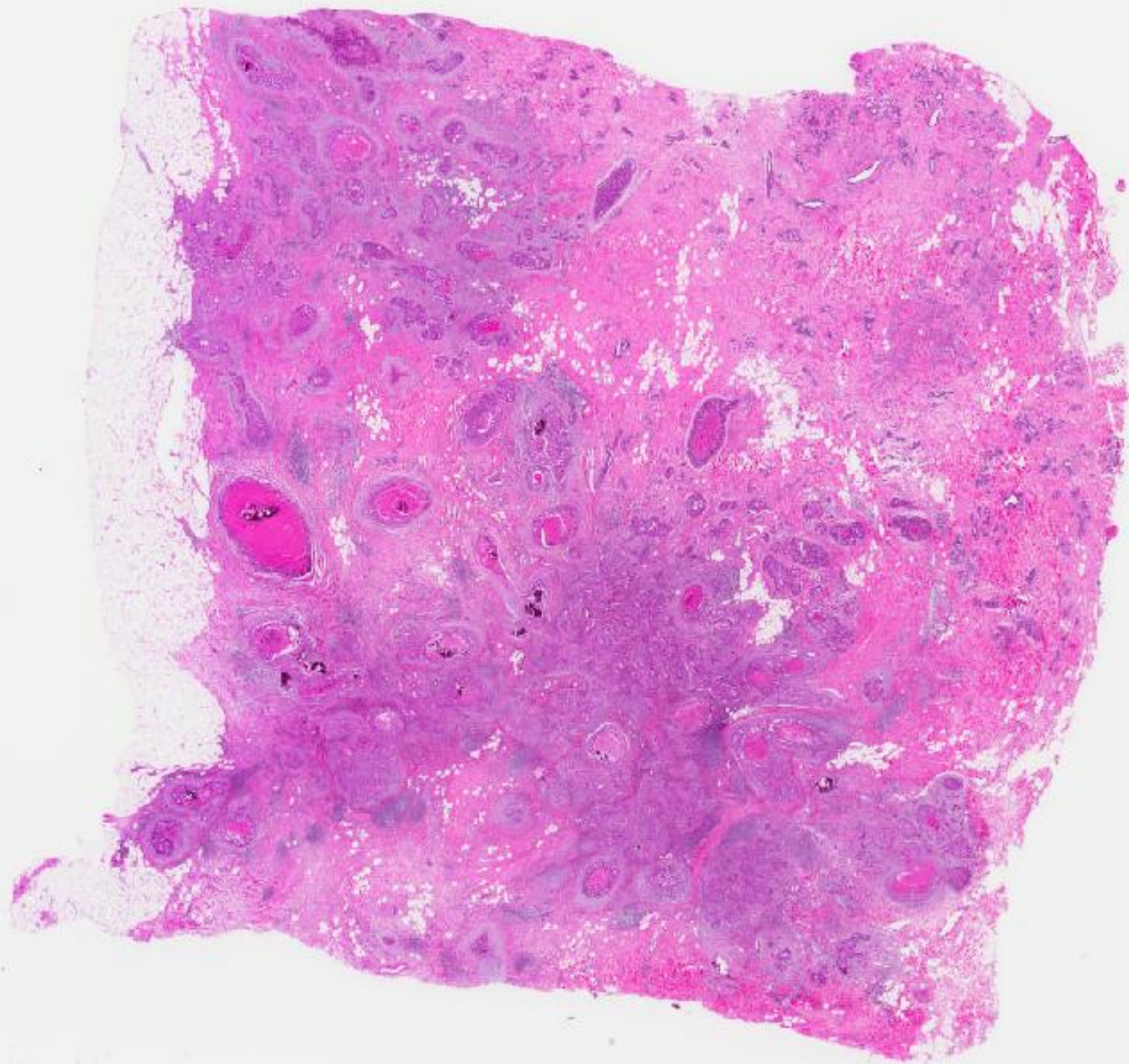
Macroscopically, the right breast showed a large, ill-defined nodular lesion studded with multiple yellowish specks spanning an area of 9 cm, involving the retroareolar zone and the upper and lower inner quadrants.

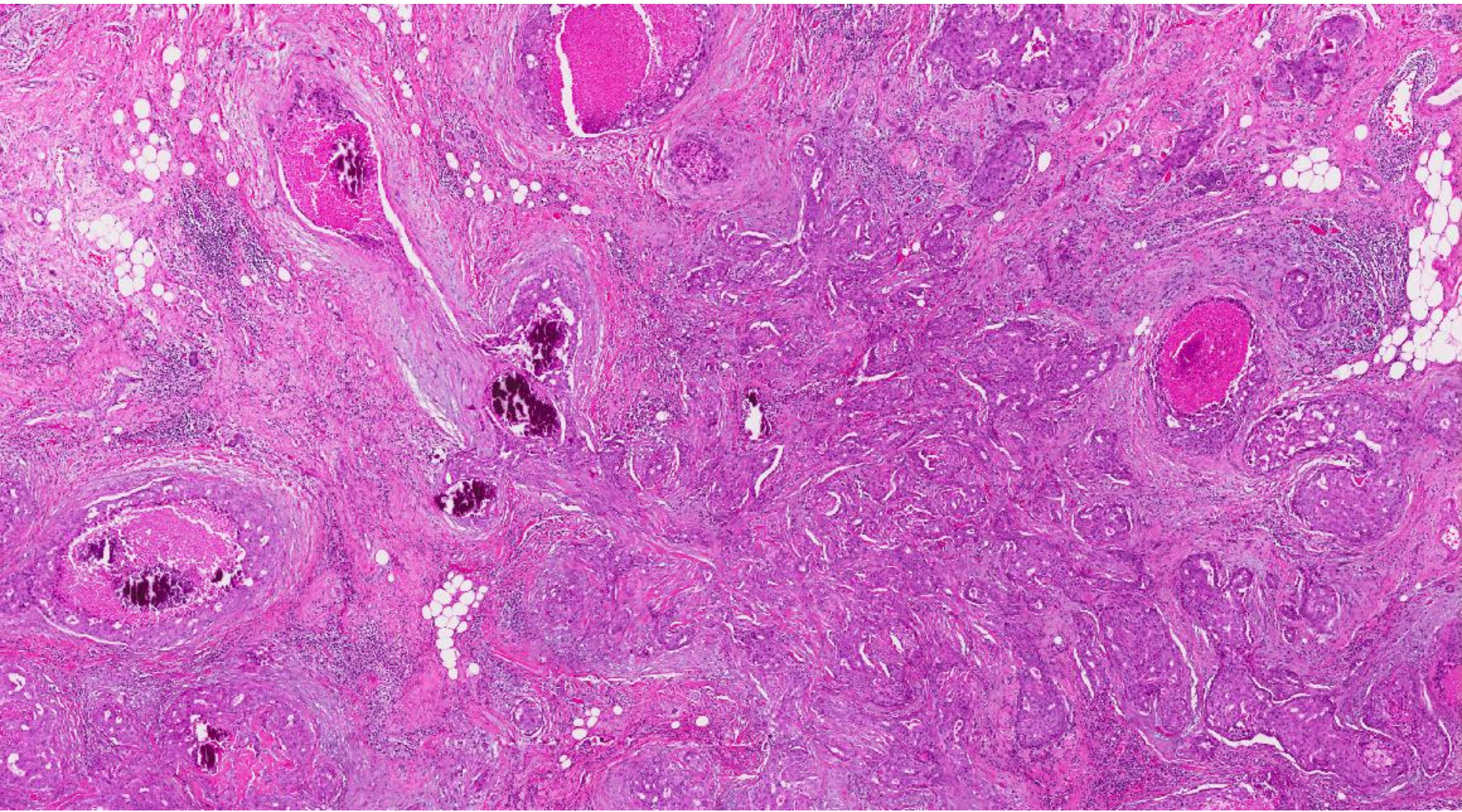


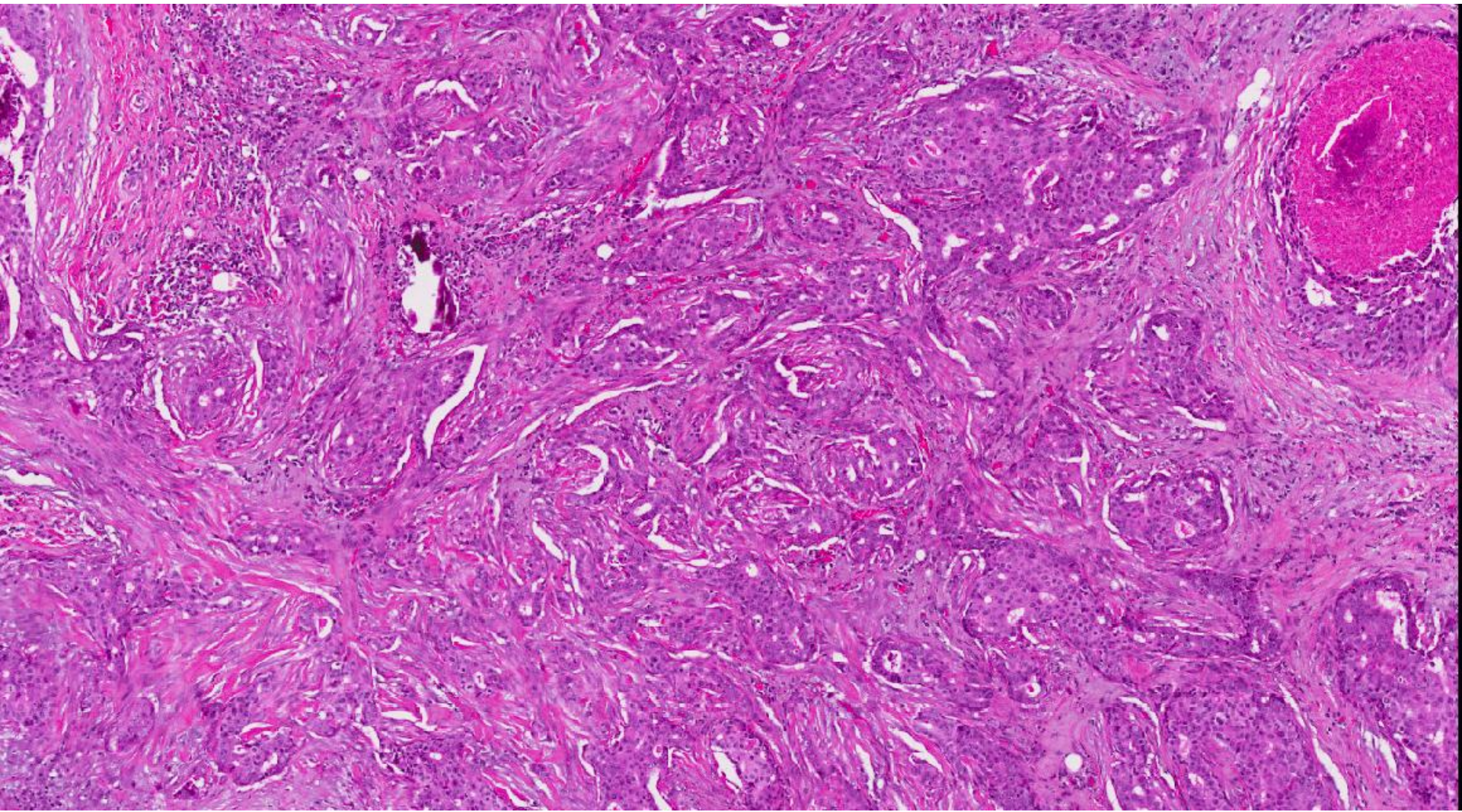


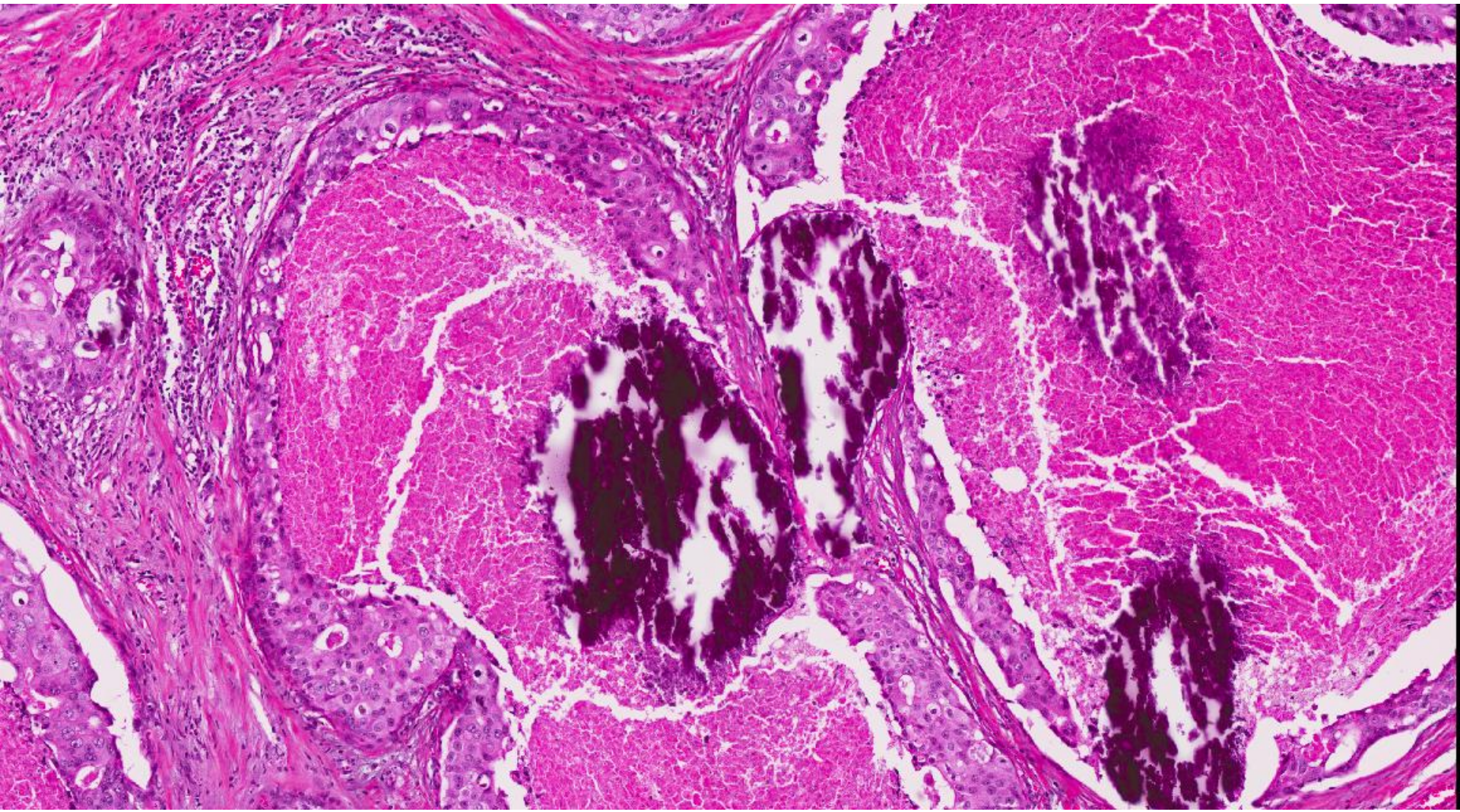




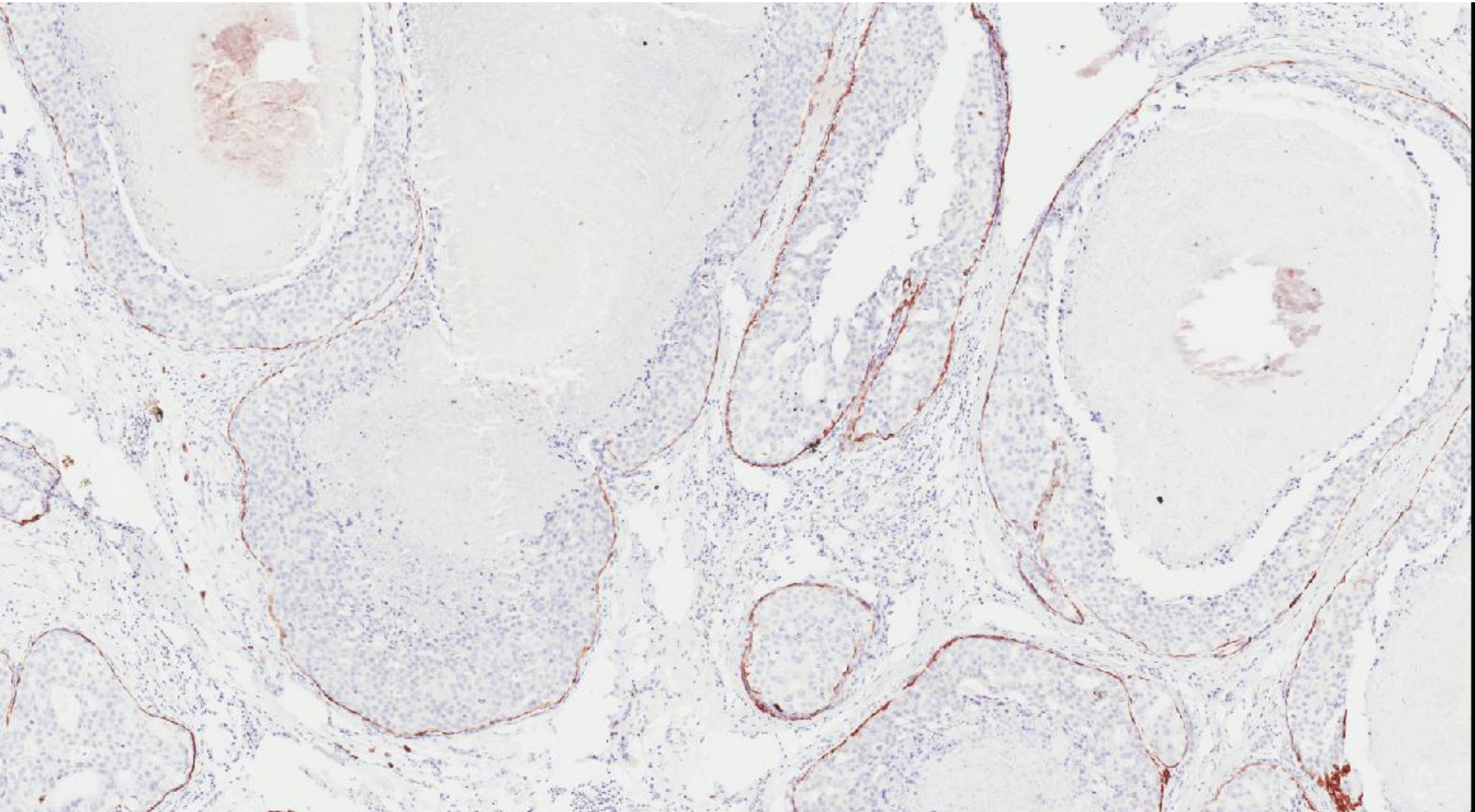




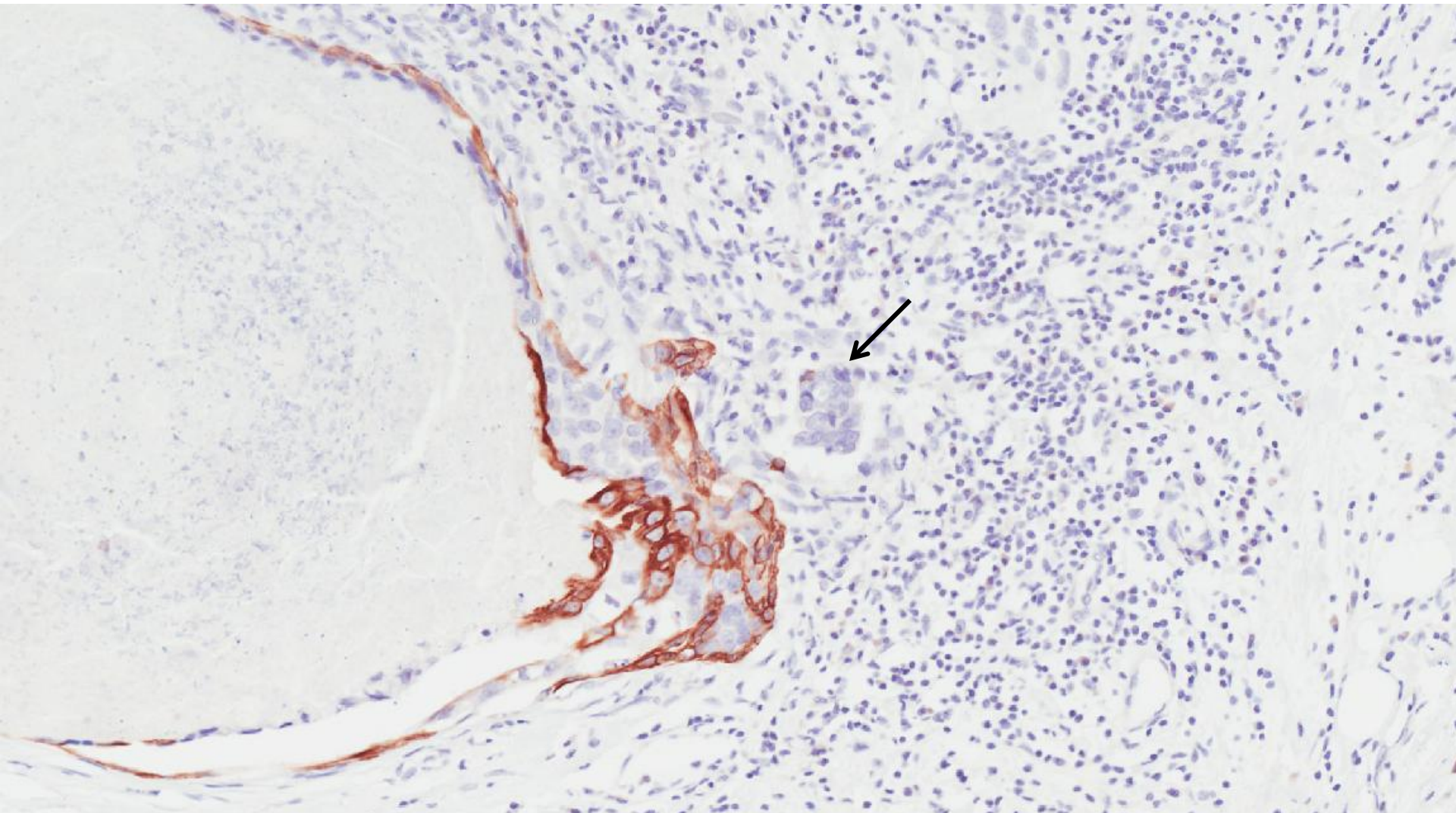




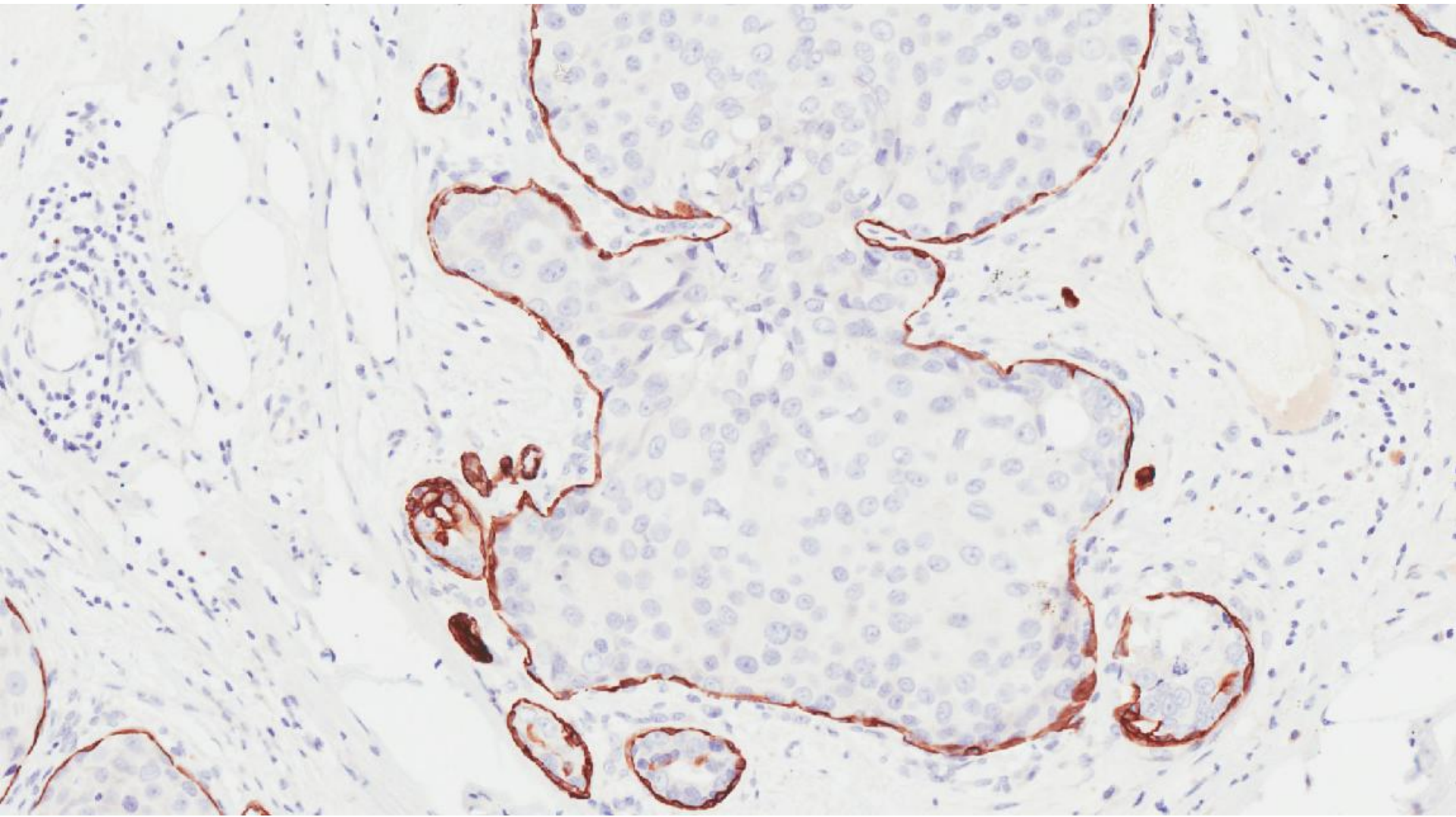
CK14



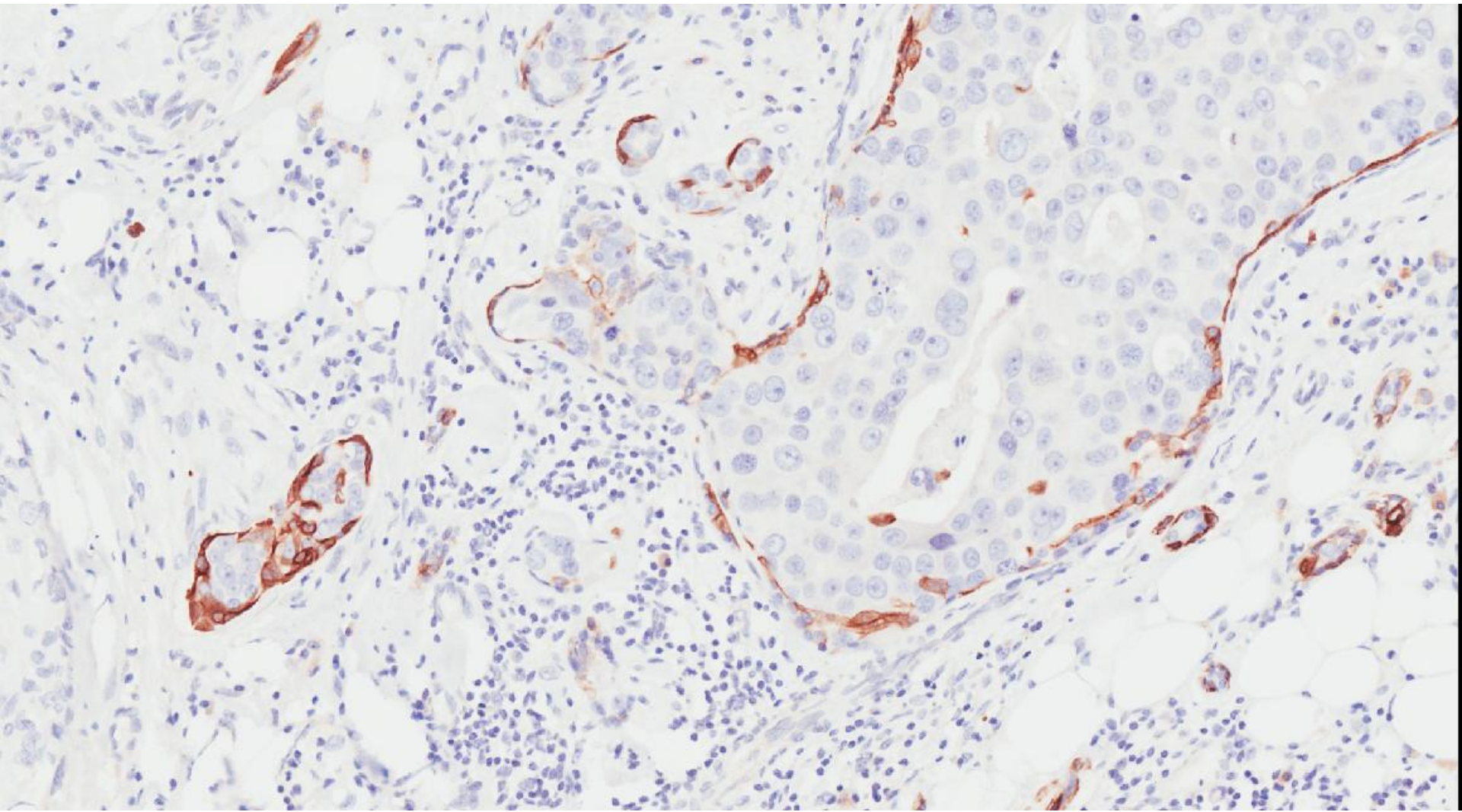
CK14



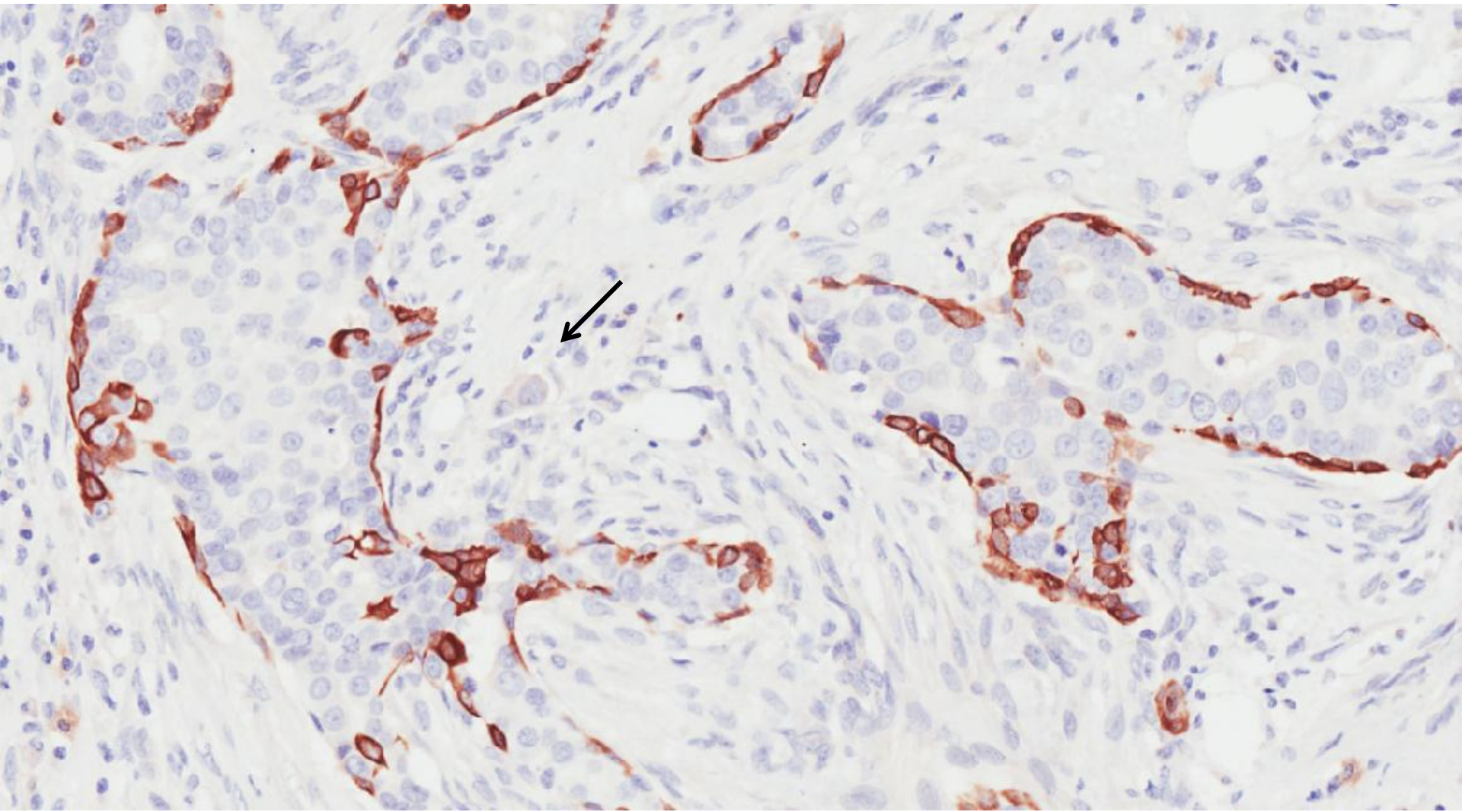
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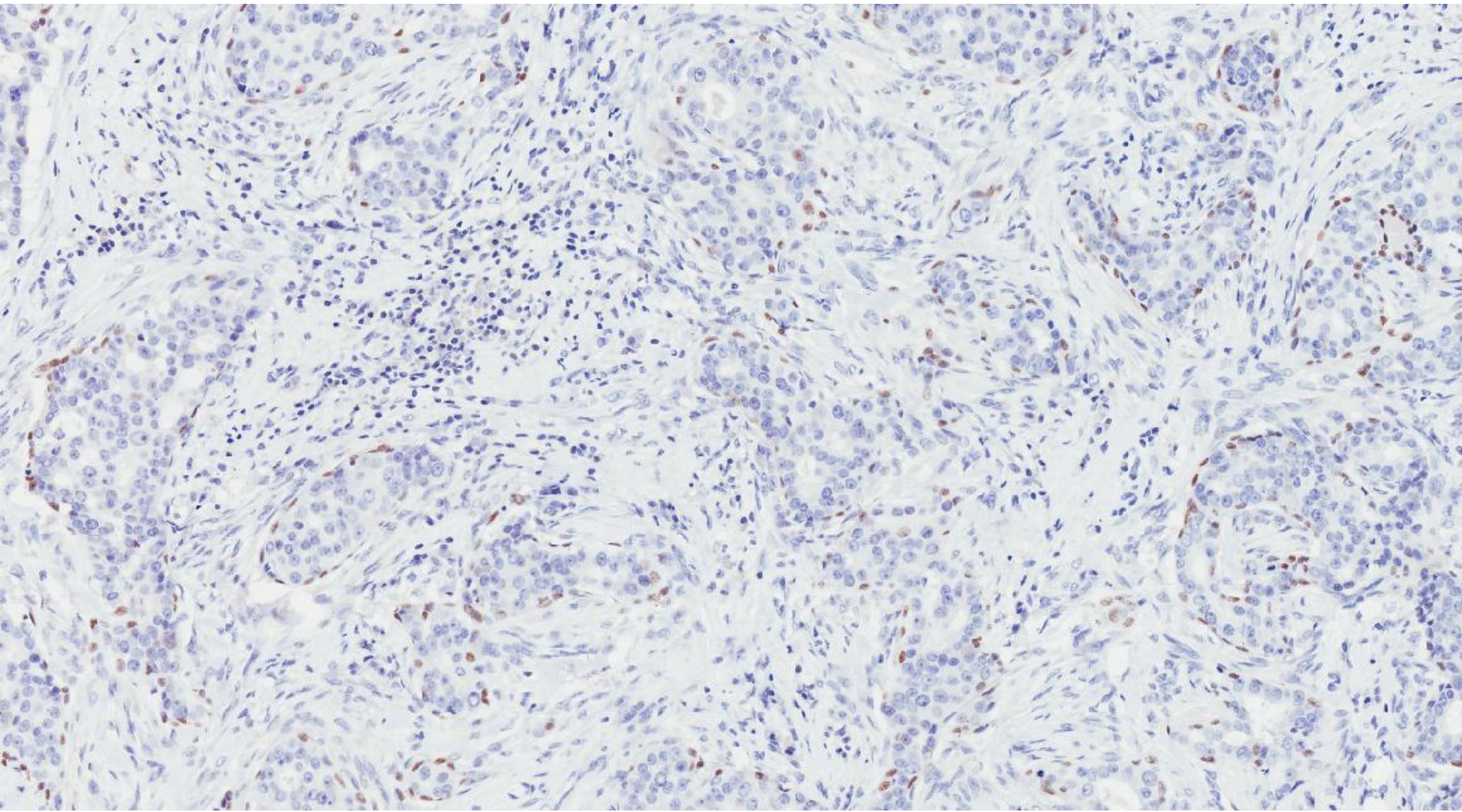
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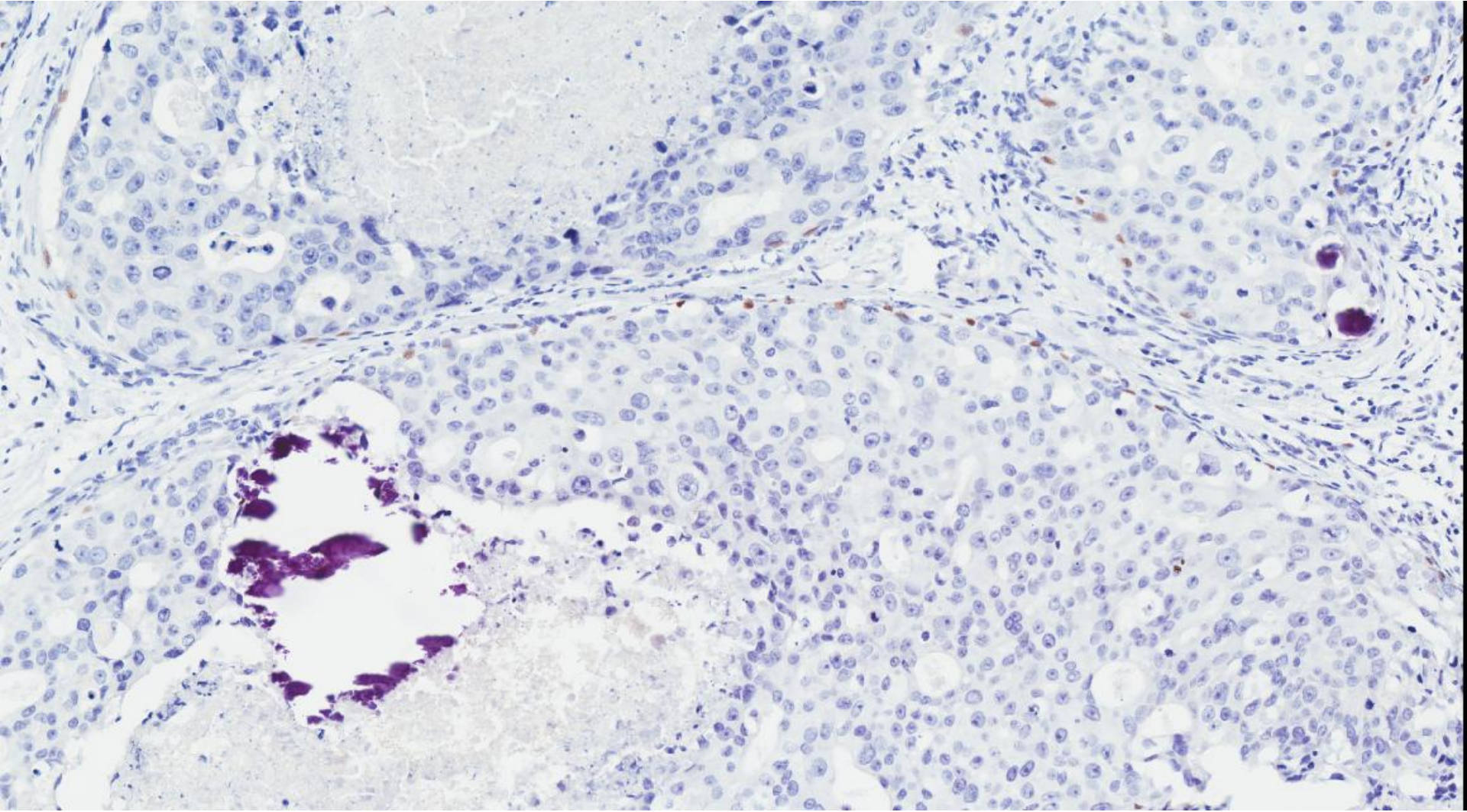
CK14



p63



p63



Diagnosis

Extensive ductal carcinoma in situ, high nuclear grade, 90mm.

Multiple foci of microinvasion.

ER negative, PR negative, cerbB2 positive (3+)

Microinvasion

- Diagnosis of microinvasion aided by immunohistochemical stains for myoepithelial markers.

Table 9.02 Antibodies for the evaluation of myoepithelial cells

Myoepithelial marker	Localization	Comments
Smooth-muscle actin	Cytoplasmic	Stains stromal myofibroblasts
Muscle-specific actin	Cytoplasmic	Stains stromal myofibroblasts
Calponin	Cytoplasmic	Stains stromal myofibroblasts
Caldesmon	Cytoplasmic	No reactivity with stromal myofibroblasts
Smooth-muscle myosin heavy chain	Cytoplasmic	May stain stromal myofibroblasts
High-molecular-weight (basal) keratins ^a	Cytoplasmic	May stain scattered epithelial/luminal cells
p63	Nuclear	May stain epithelial cells of DCIS and invasive cancer Also expressed by squamous epithelial cells and forms of metaplastic carcinoma
p75	Cytoplasmic & membranous	May stain endothelial cells, vascular adventitia, stromal cells and benign and malignant epithelial cells
CD10	Cytoplasmic	May weakly stain stromal myofibroblasts
S100	Cytoplasmic & nuclear	May stain normal, hyperplastic, and neoplastic epithelial cells
GFAP	Cytoplasmic	—
Maspin	Cytoplasmic & nuclear	May stain normal, hyperplastic and neoplastic epithelial cells
P-cadherin	Cytoplasmic & membranous	—
D2-40	Cytoplasmic	Stains endothelial cells of lymphatic vessels
DCIS, ductal carcinoma in situ; GFAP, glial fibrillary acidic protein. ^a (K5, K5/6, K14, K17, 34βE12)		