



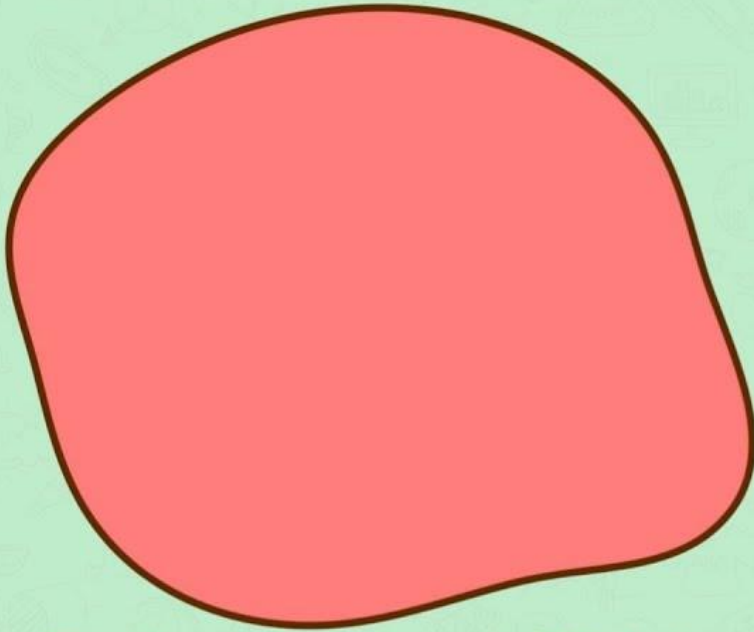
BASICS in borstpathologie

Prof. dr. Ruth Achten
Anatomo-patholoog Jessa

GOEDAARDIG VS KWAADAARDIG

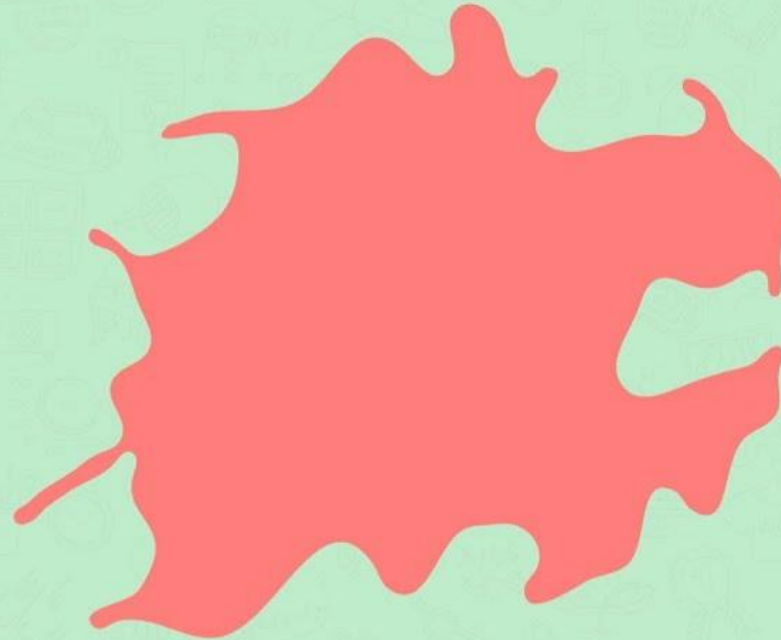
- Aflijning
 - Opbouw (architectuur)
 - Cellen (cytologie)
-
- Bepaalt het type heerkunde
 - Bepaalt de prognose

Benign Tumour

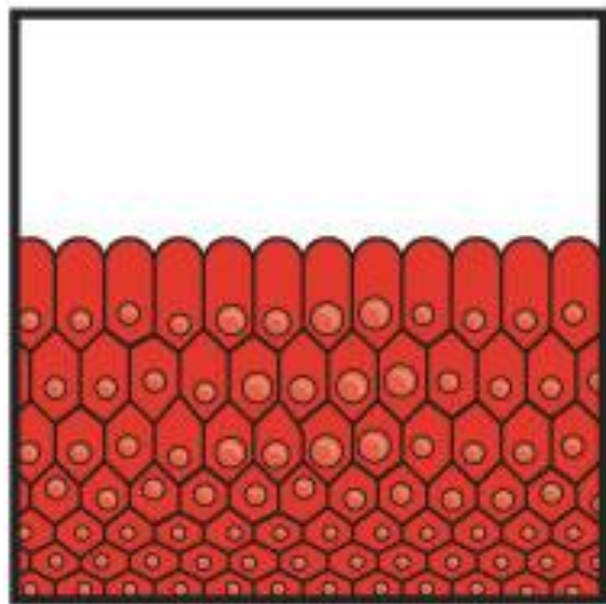


They do not invade other parts of the body.
They are usually rounded in shape and found inside a membrane.

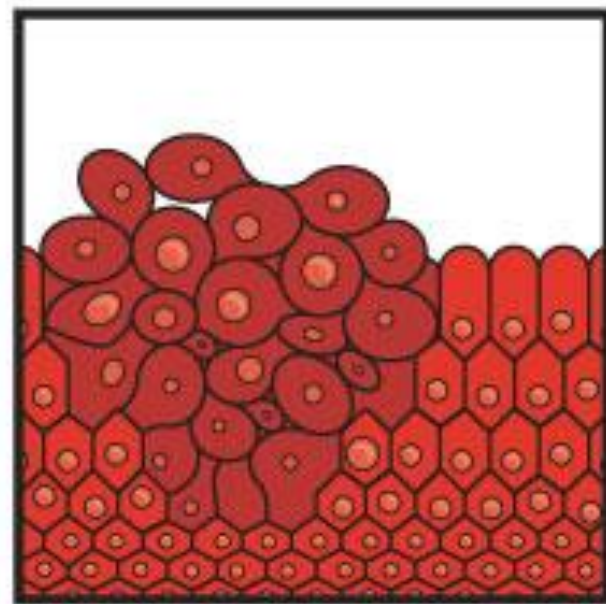
Malignant Tumour



They can spread around the body and invade other tissues.



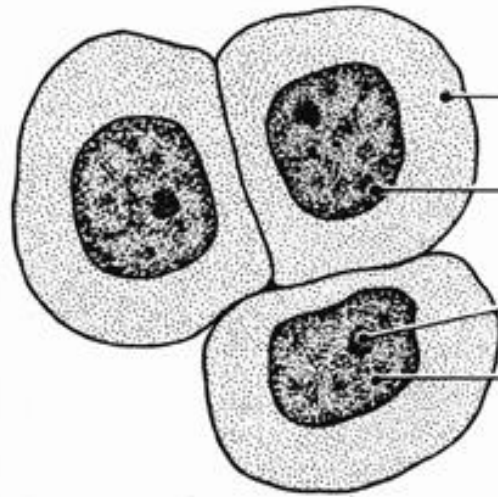
Normal cells



Cells forming a tumour

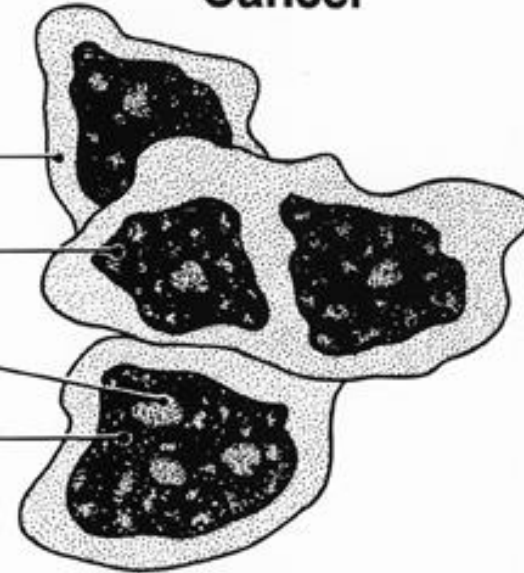
Normal and Cancer Cells Structure

Normal

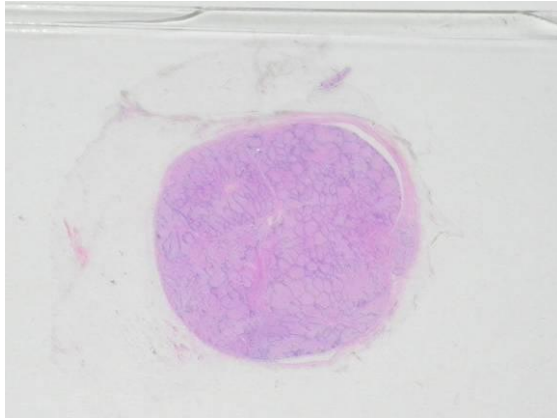


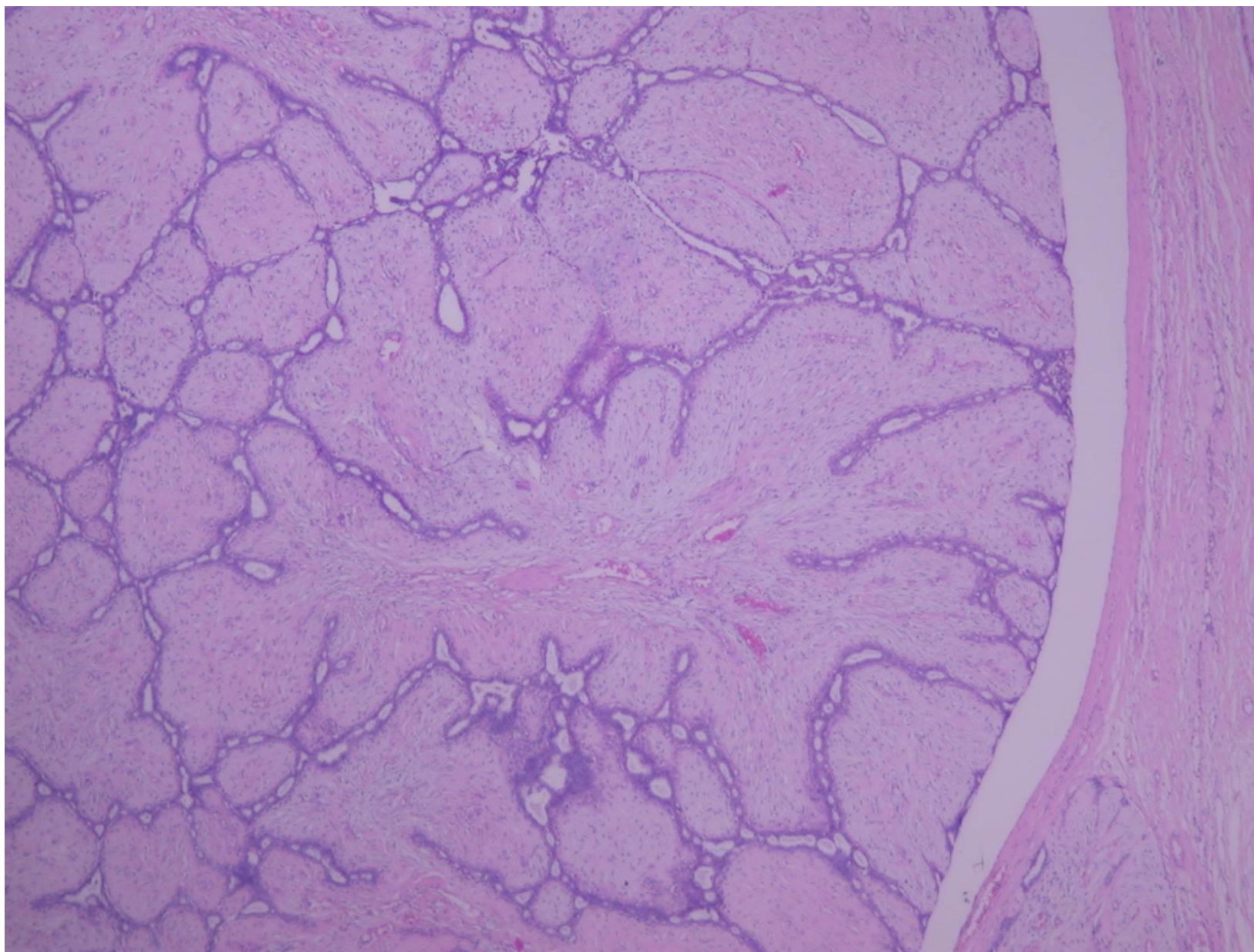
- Large cytoplasm
- Single nucleus
- Single nucleolus
- Fine chromatin

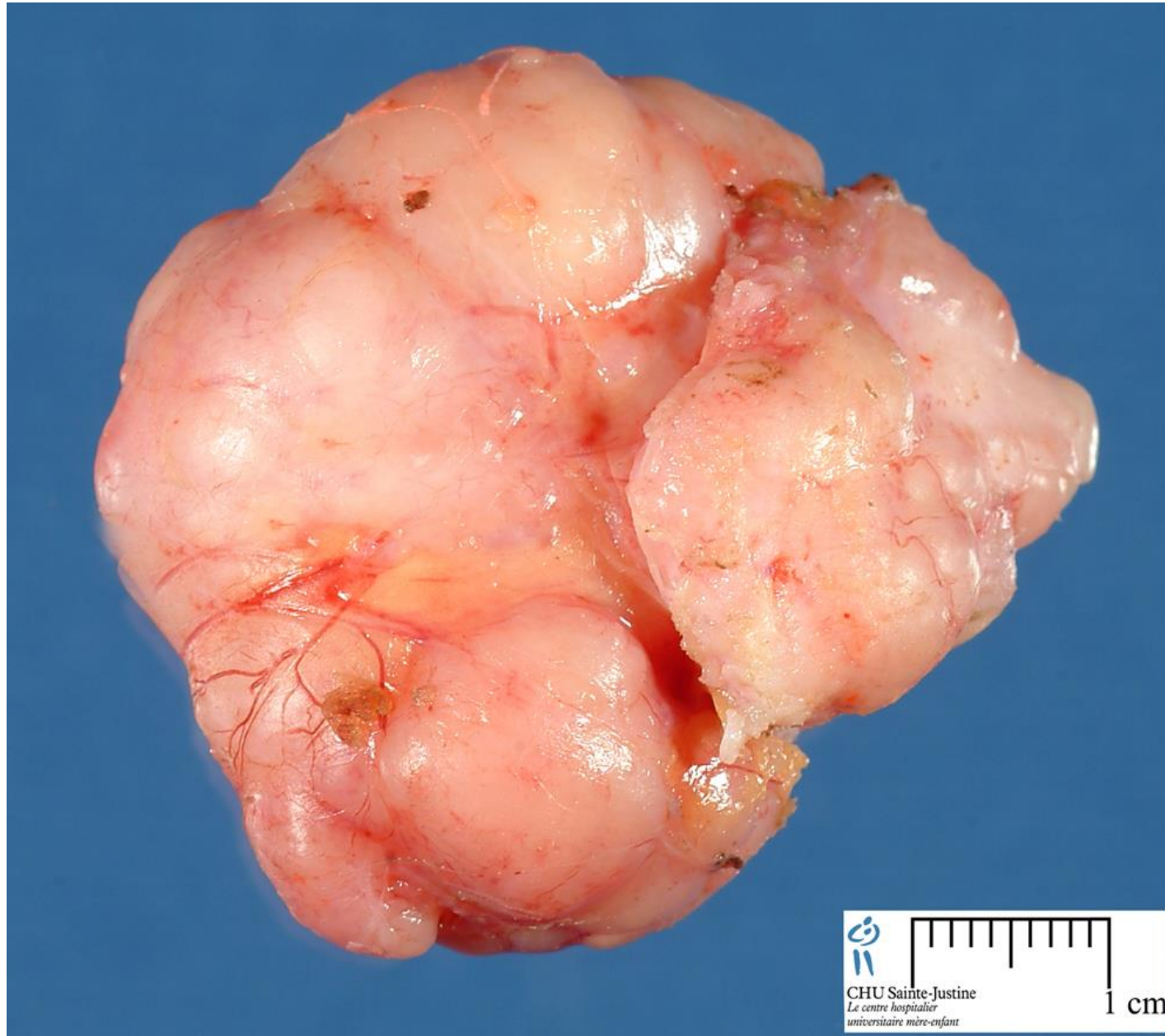
Cancer

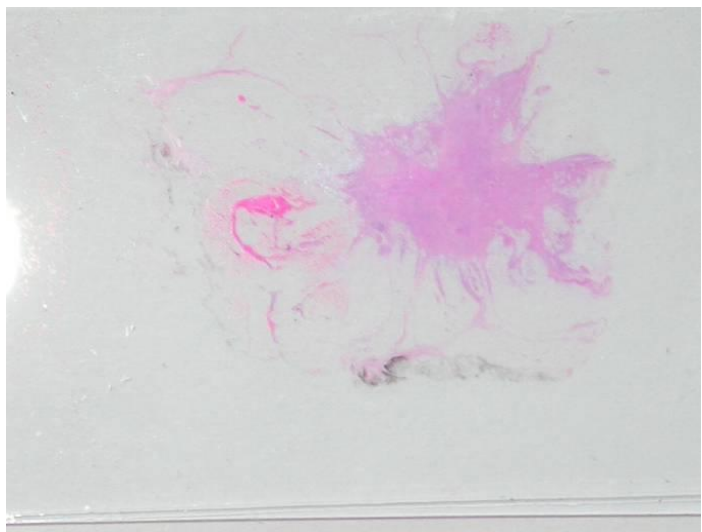


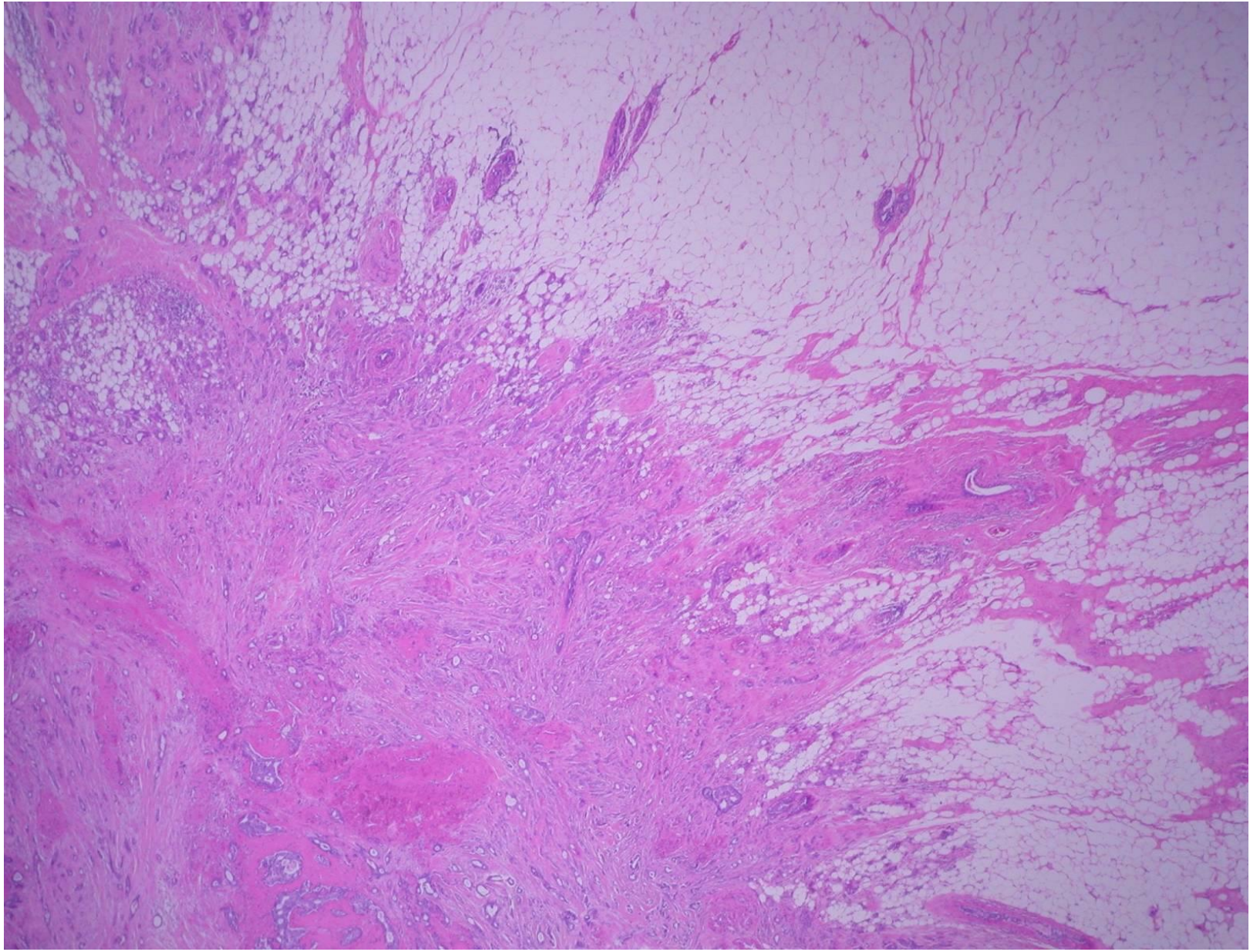
- Small cytoplasm
- Multiple nuclei
- Multiple and large nucleoli
- Coarse chromatin

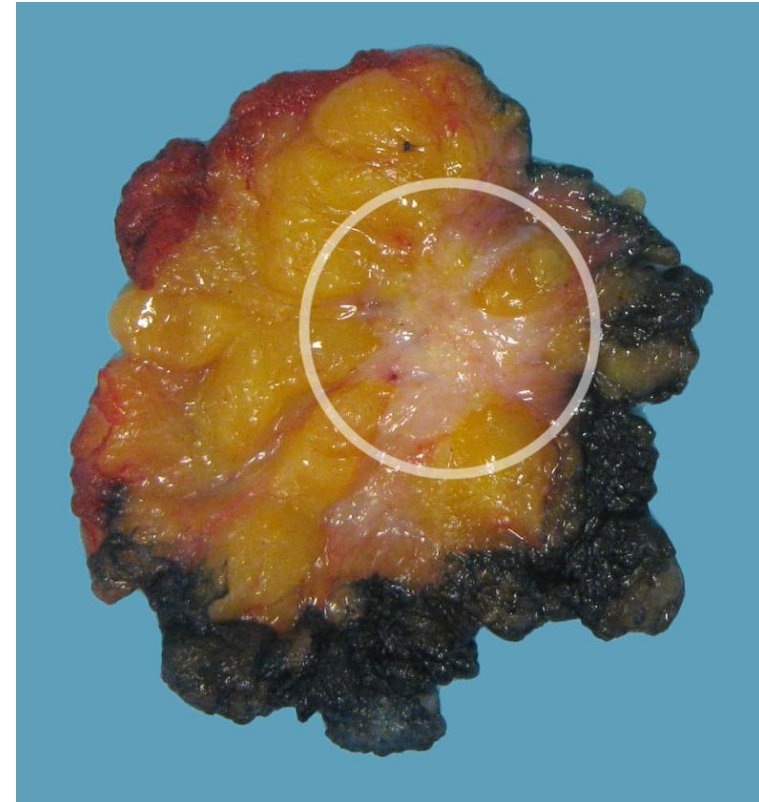






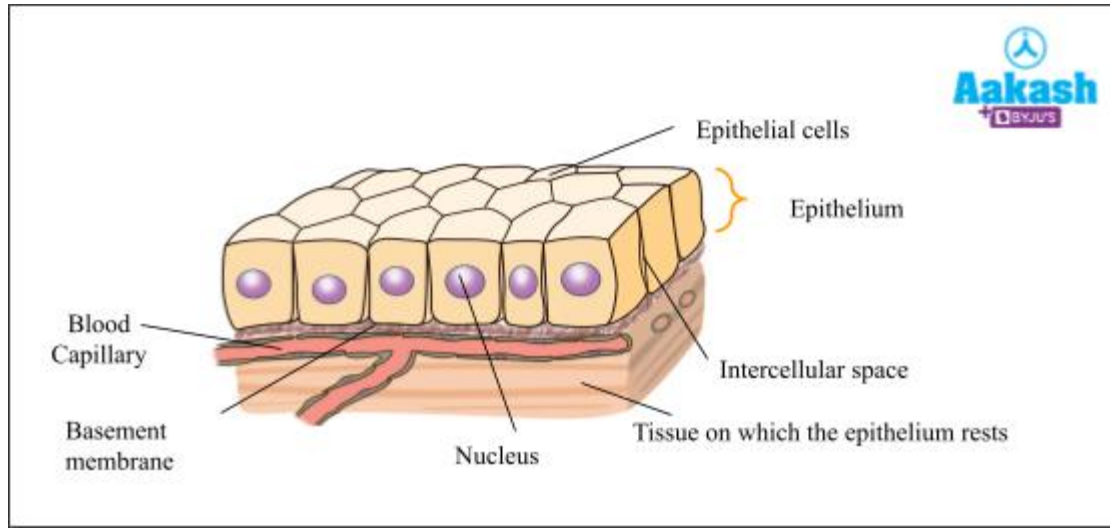


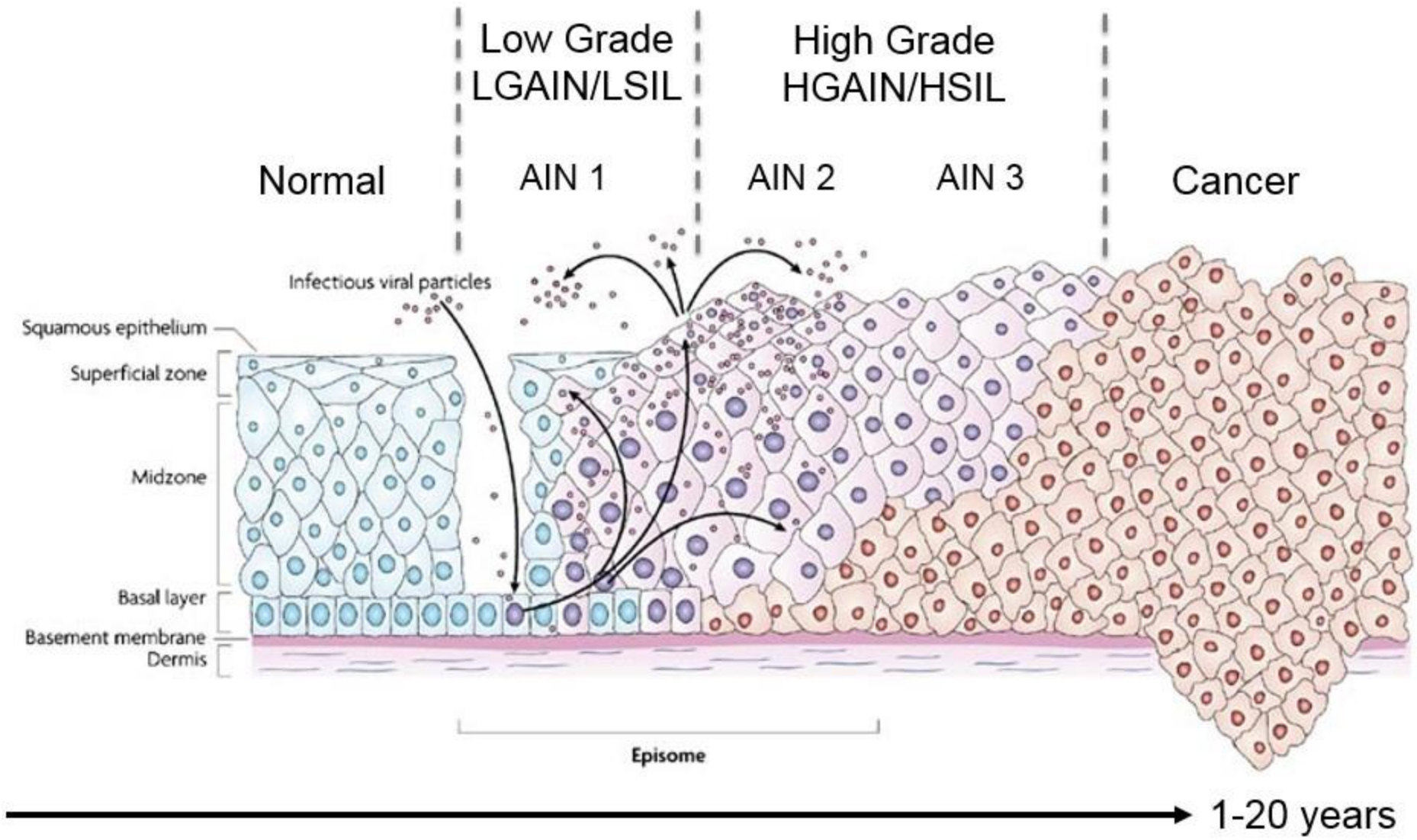


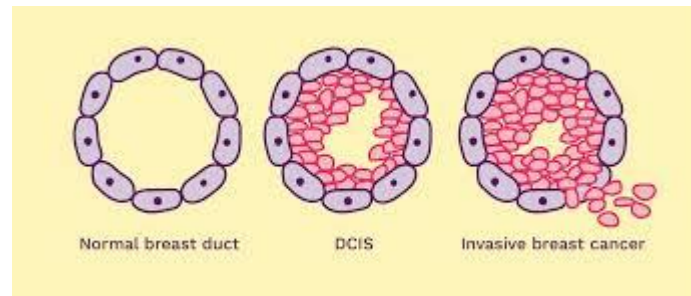
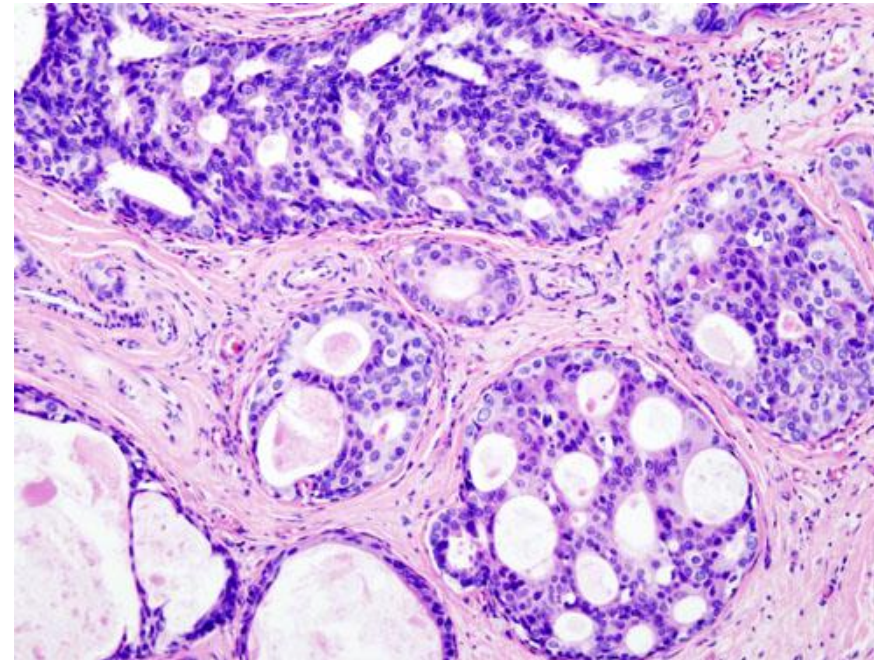
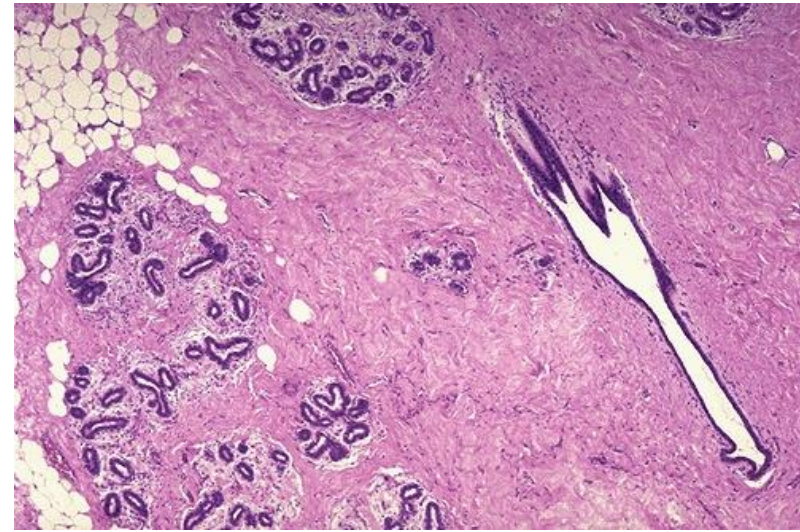
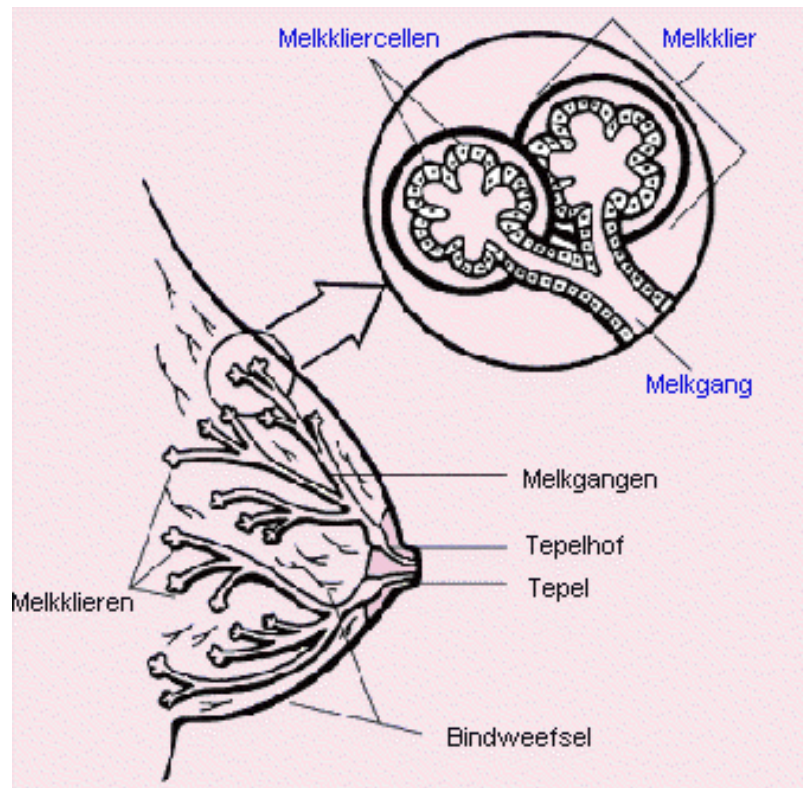


IN SITU VS INVASIEF

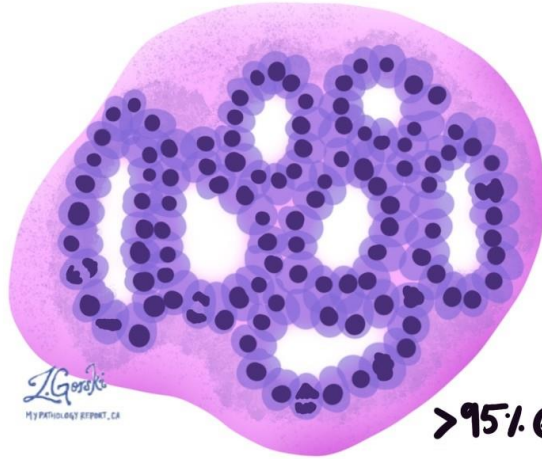
- Basale membraan
- Bepaalt behandelingsstrategie
- Differentiatiegraad





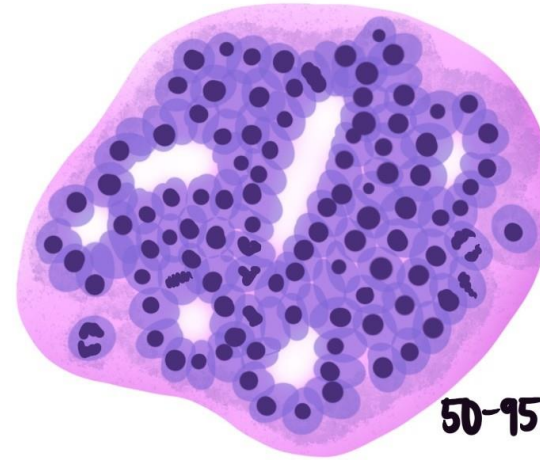


WELL-DIFFERENTIATED
ADENOCARCINOMA



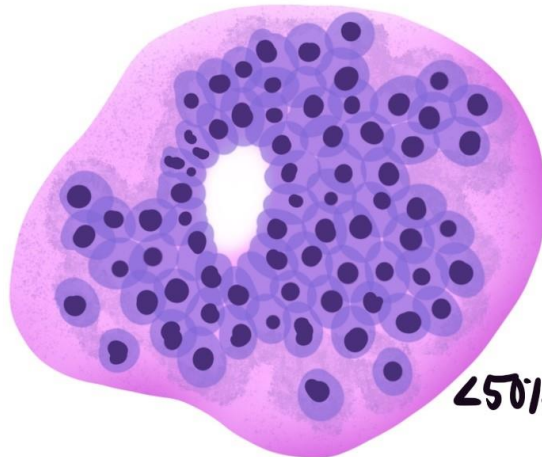
>95% GLANDS

MODERATELY-DIFFERENTIATED
ADENOCARCINOMA



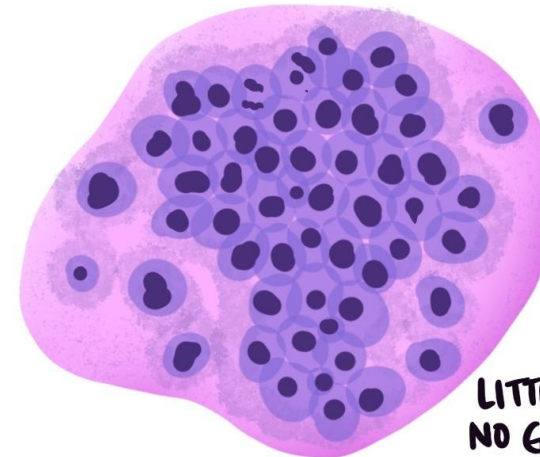
50-95% GLANDS

POORLY-DIFFERENTIATED
ADENOCARCINOMA

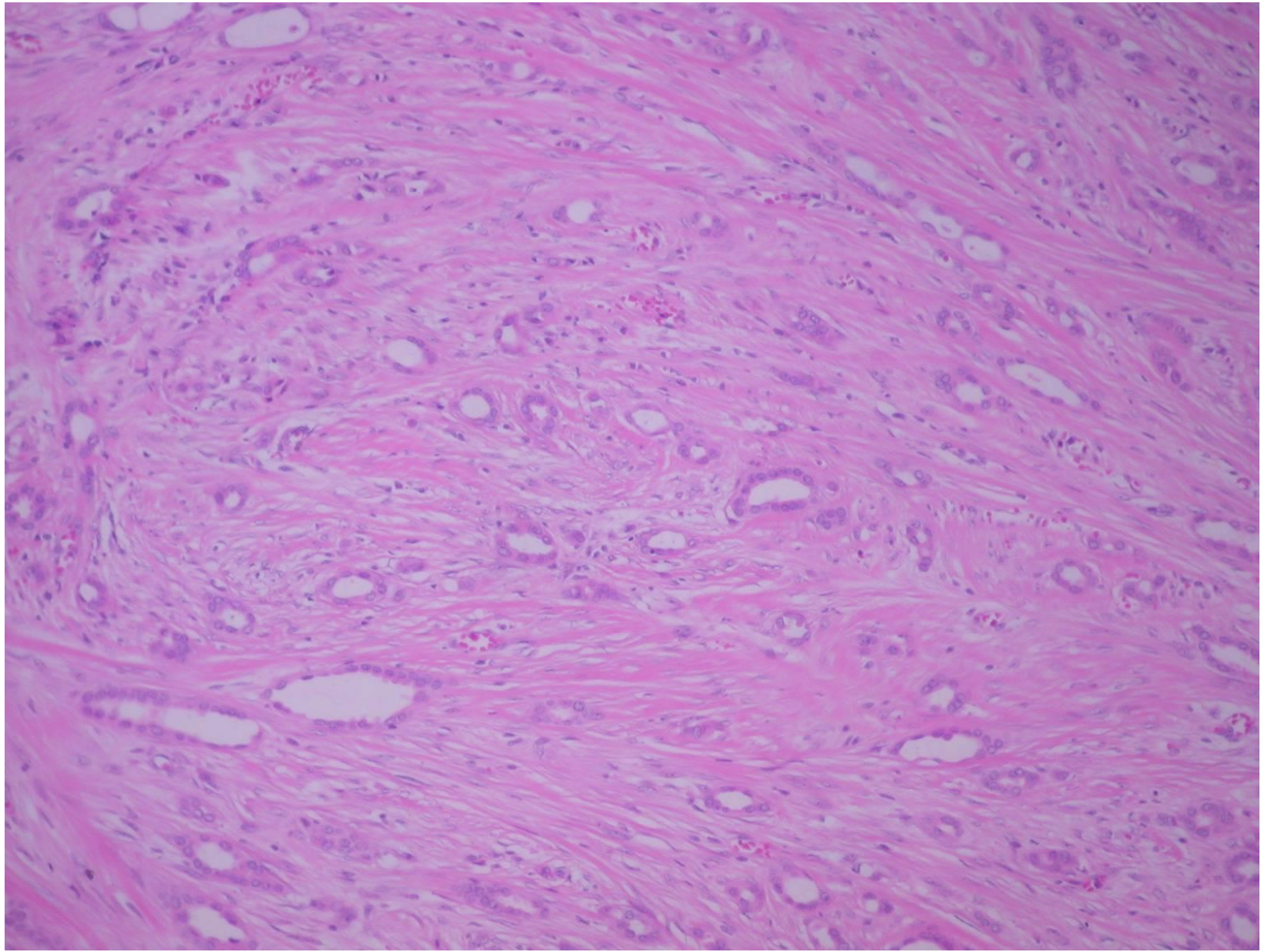


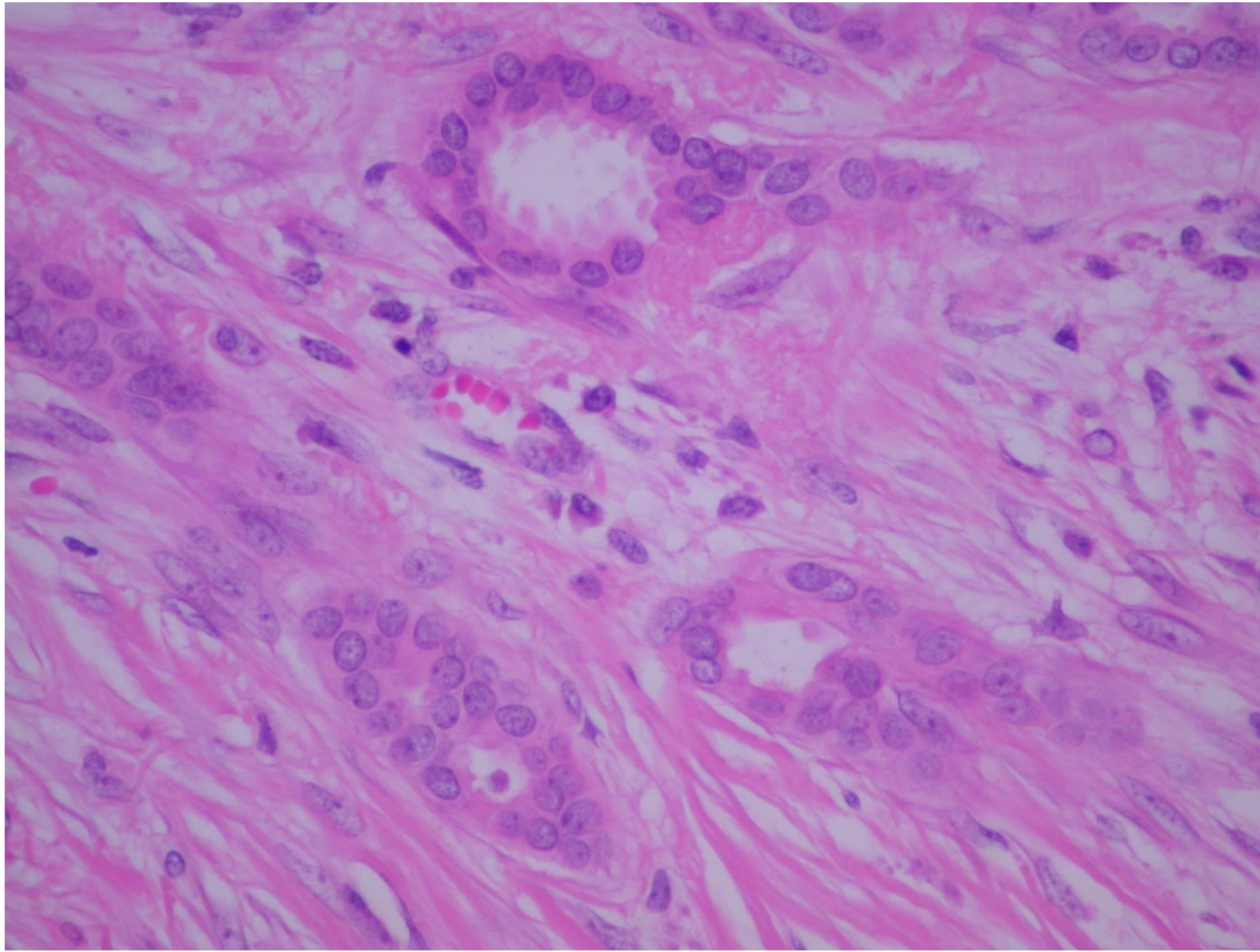
<50% GLANDS

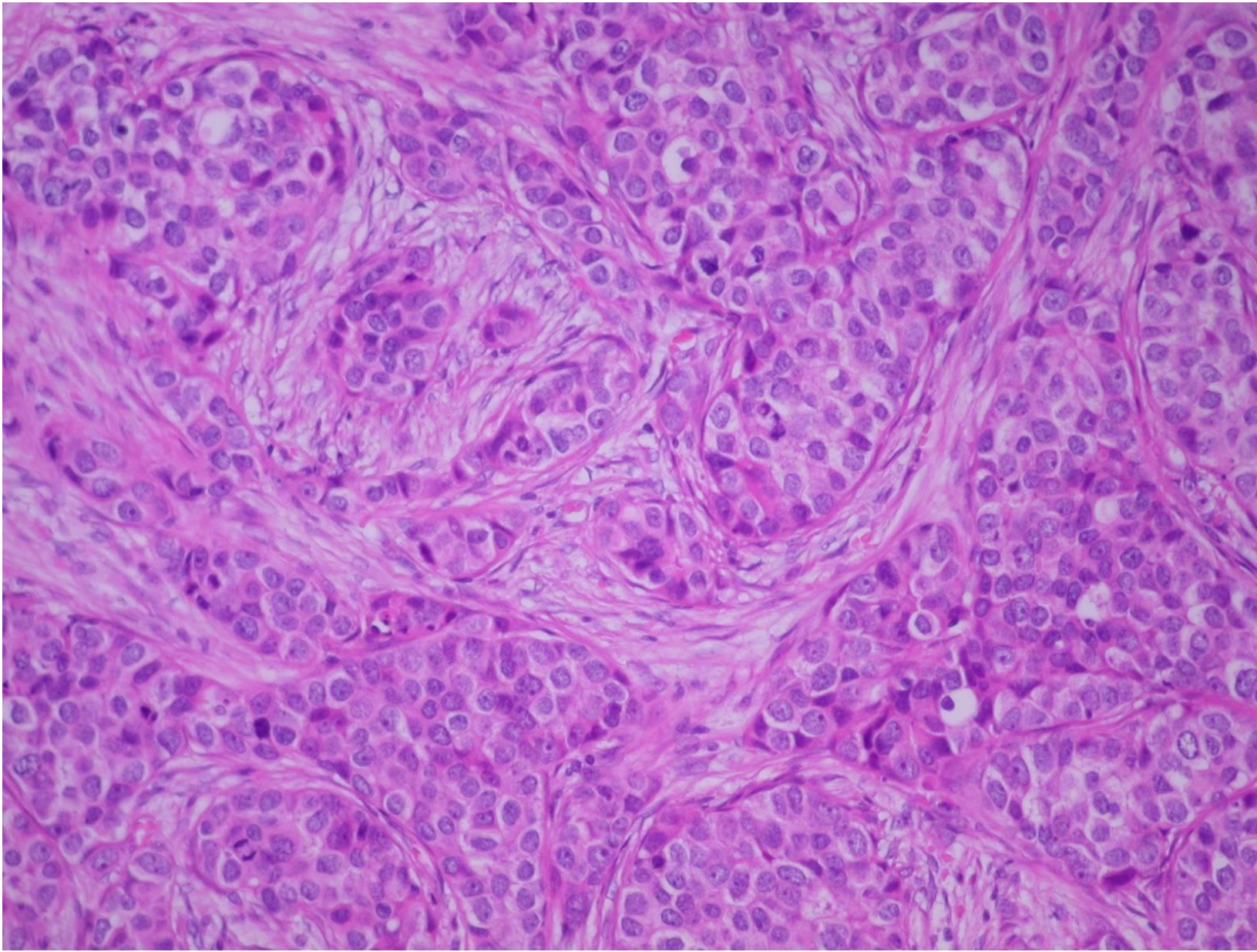
UNDIFFERENTIATED
ADENOCARCINOMA

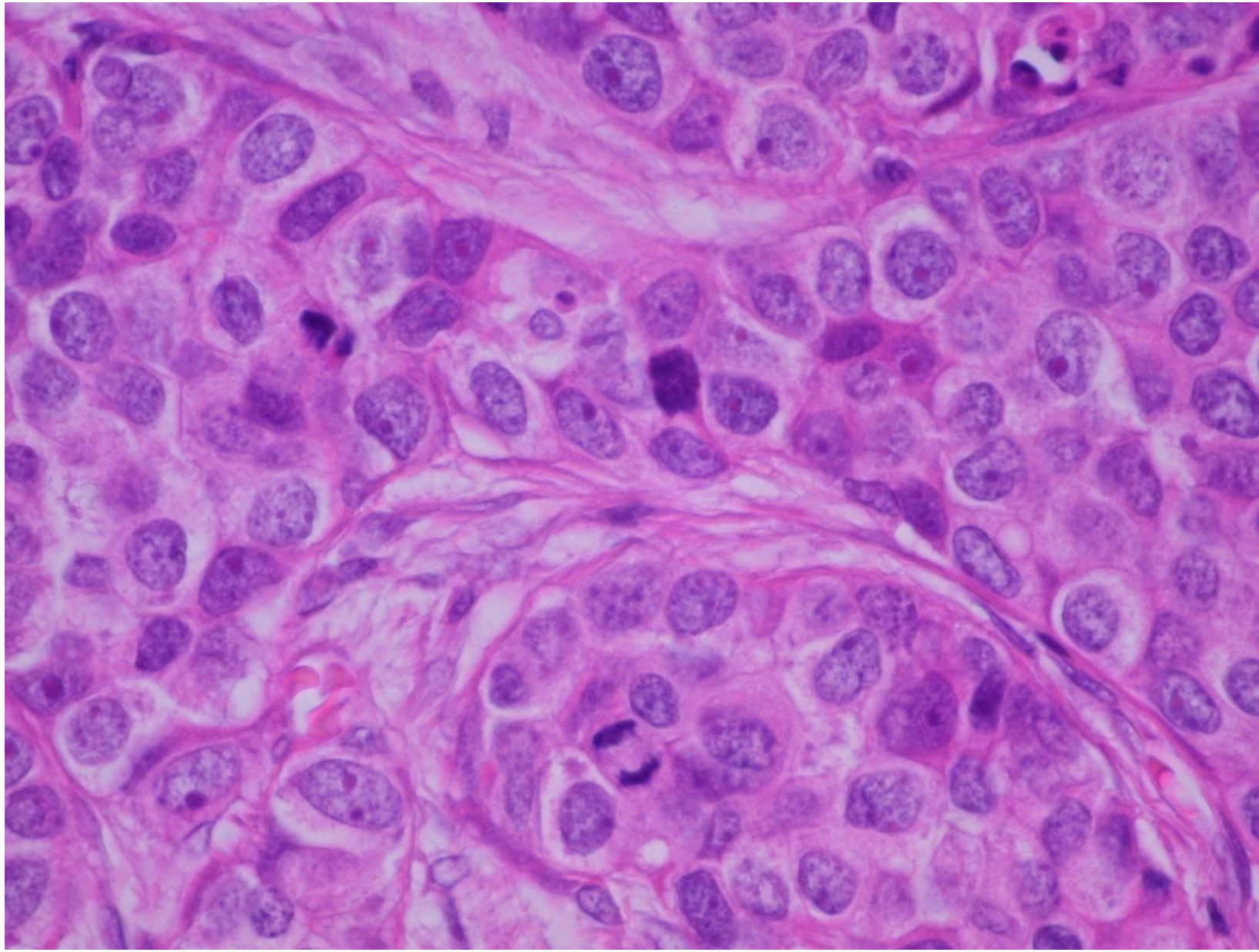


LITTLE TO
NO GLANDS



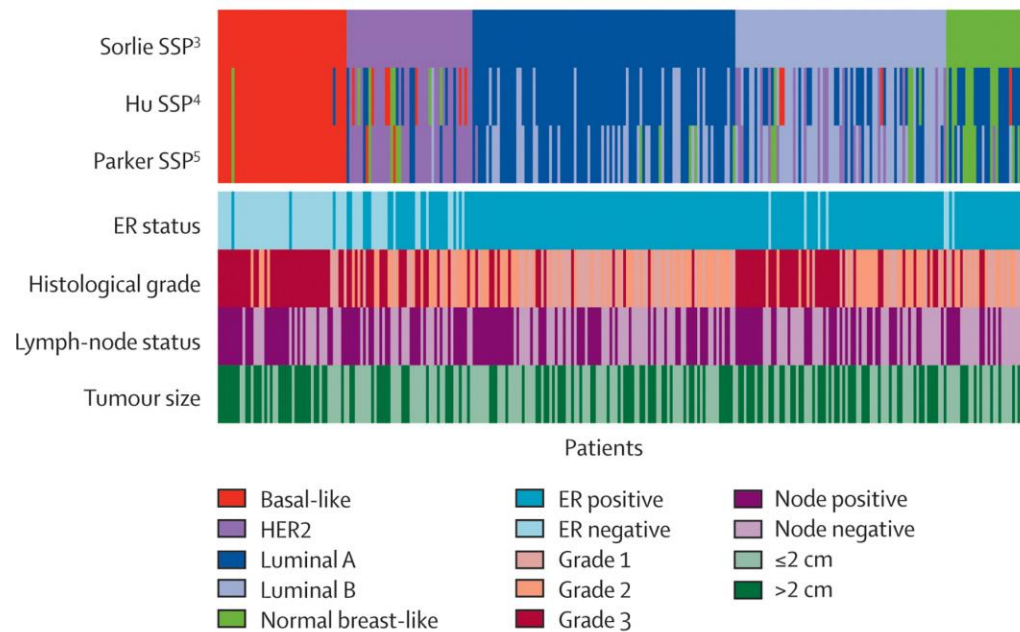
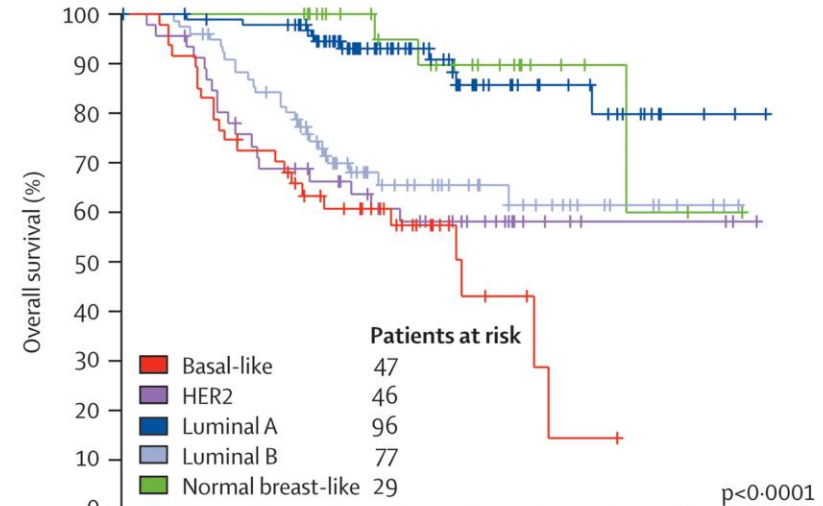
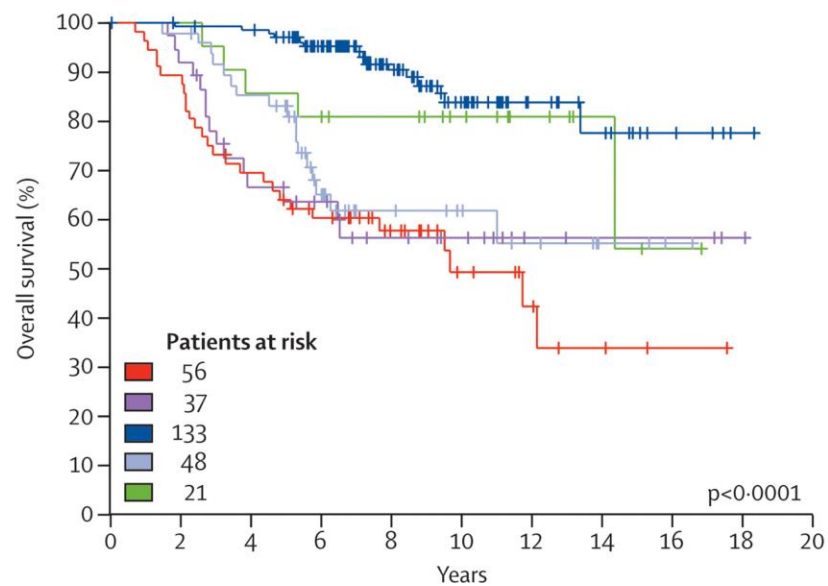
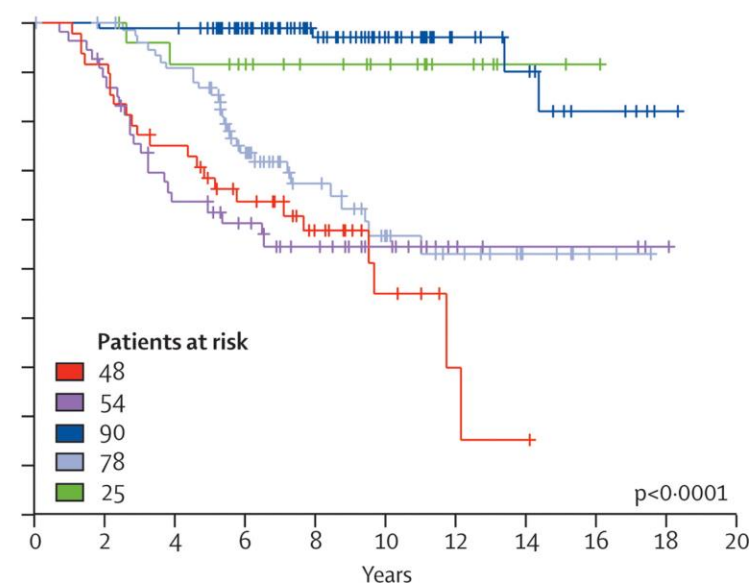




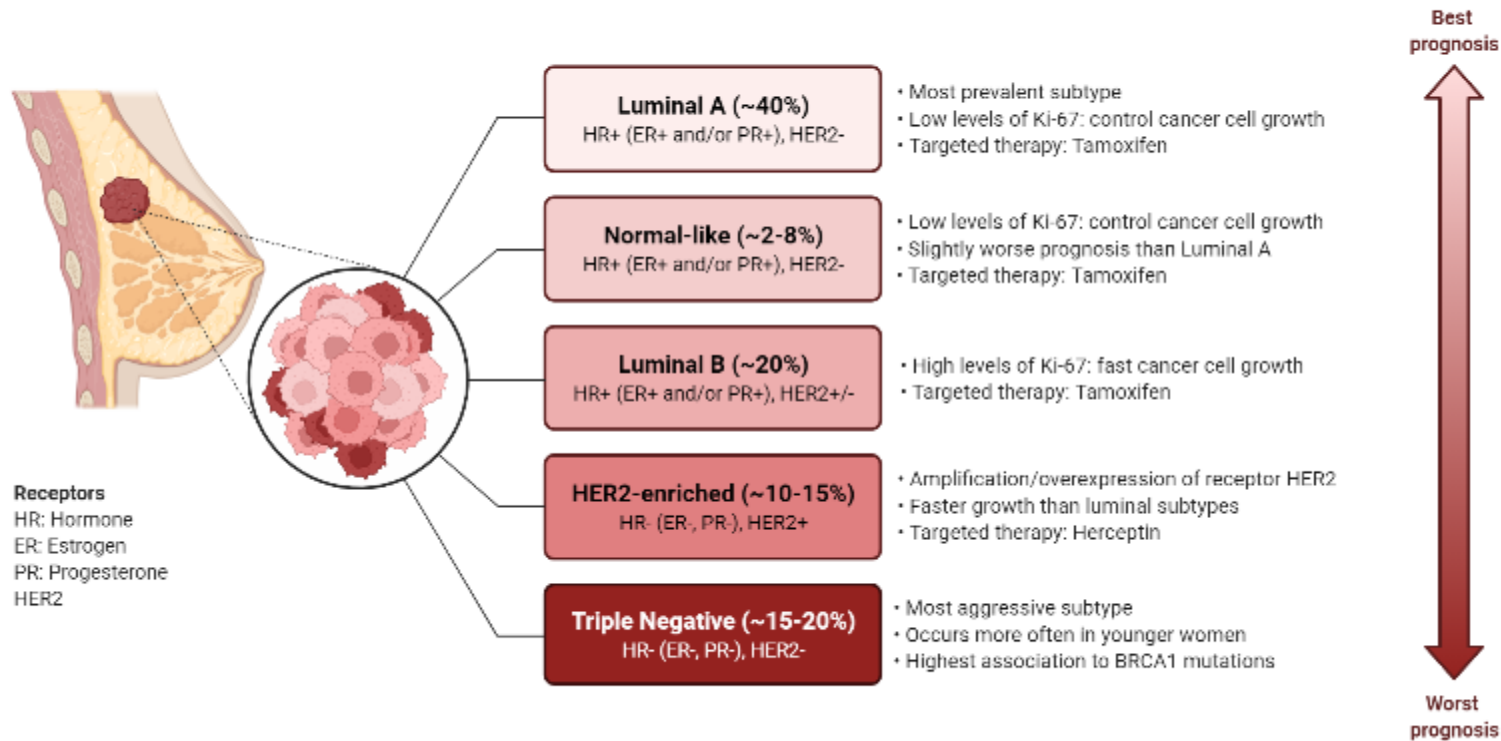


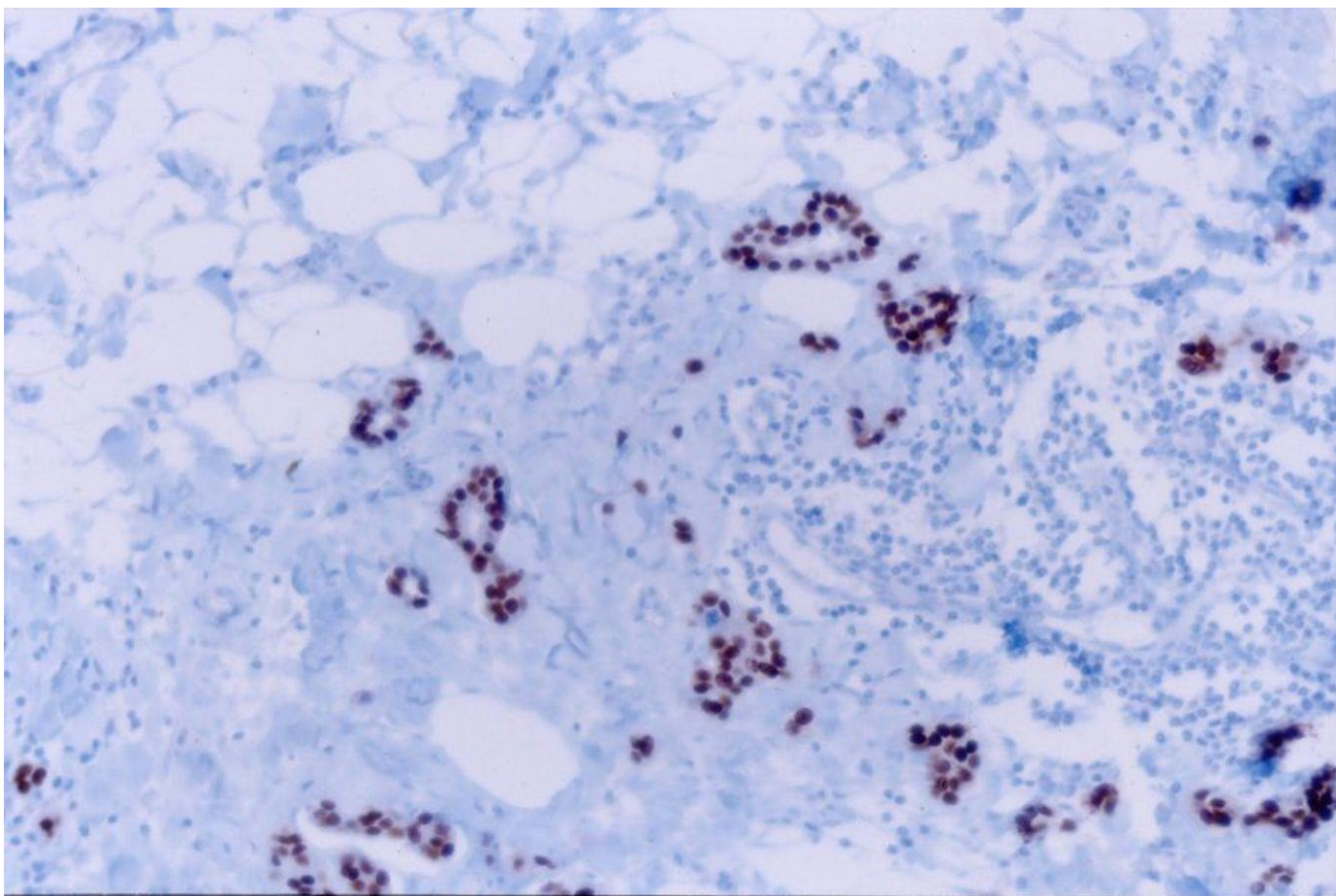
PROGNOSTISCHE/PREDICTIEVE MERKERS

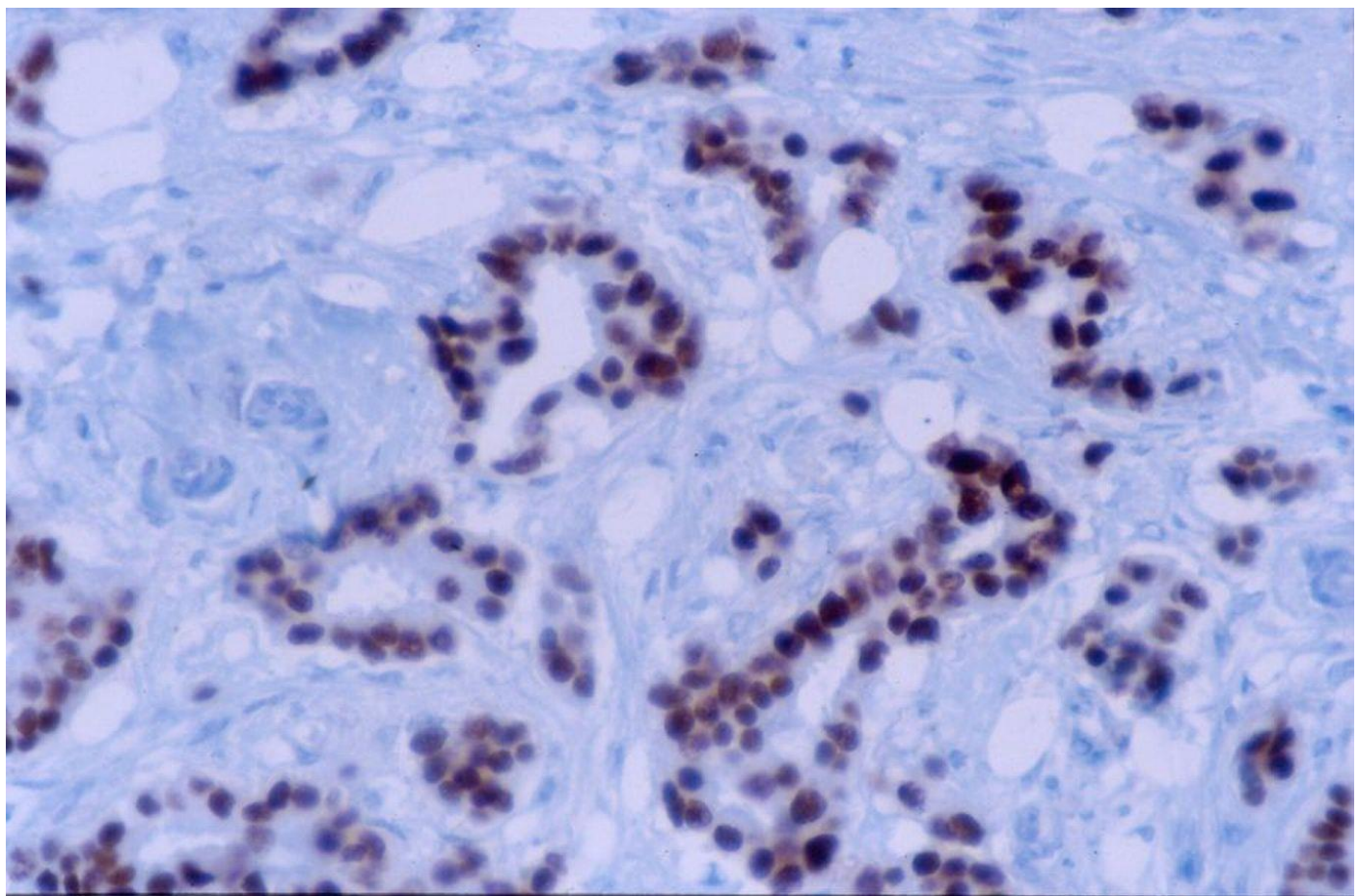
- Hormoonreceptoren
 - Oestrogeen receptoren
 - Progesterone receptoren
- HER2/neu gen
- Ki-67 index (proliferatiemerker)

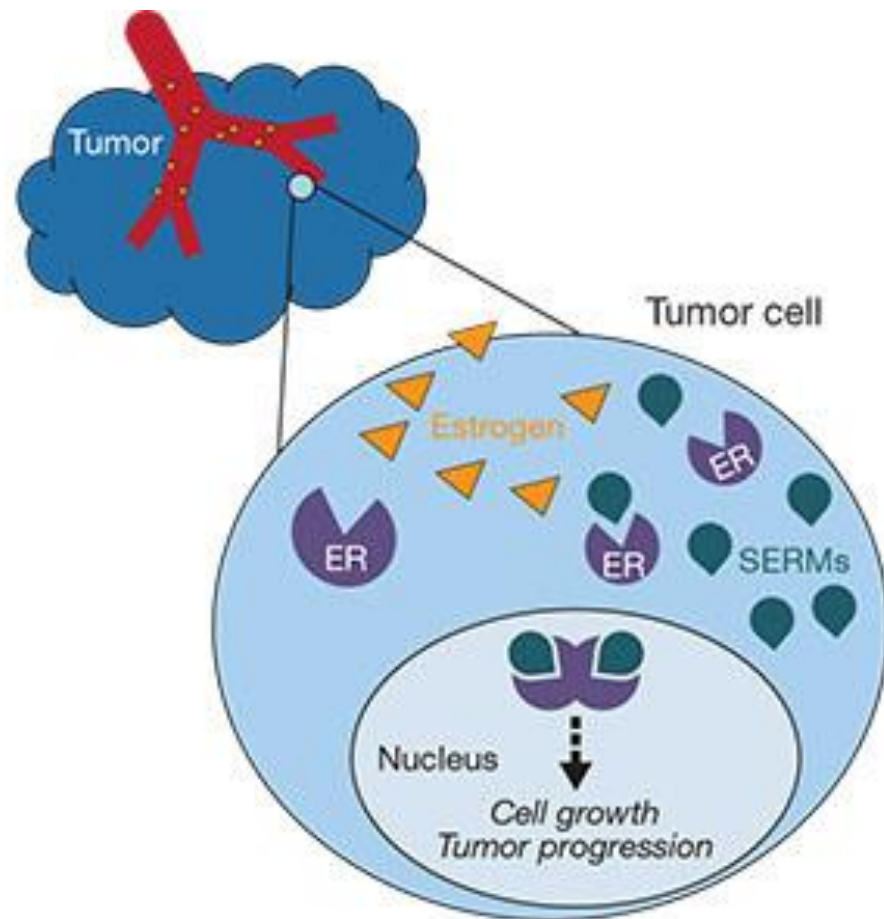
A NKI-295 dataset**B Sorlie SSP 2003³****C Hu SSP 2006⁴****D Parker SSP 2009⁵**

5 Main Intrinsic or Molecular Subtypes of Breast Cancer







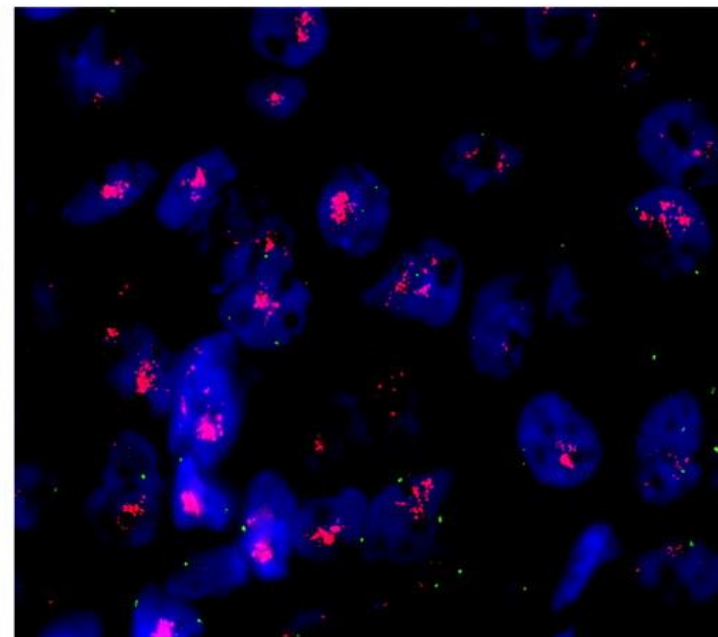
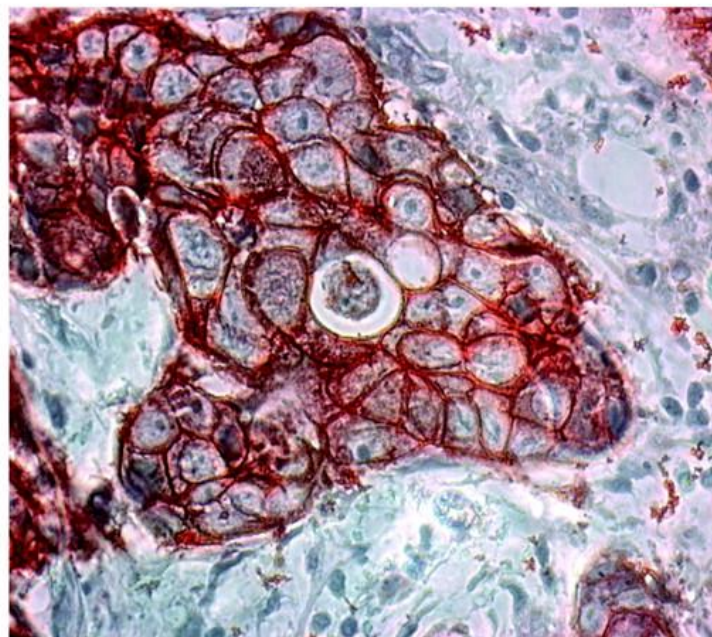


HER2/*neu*

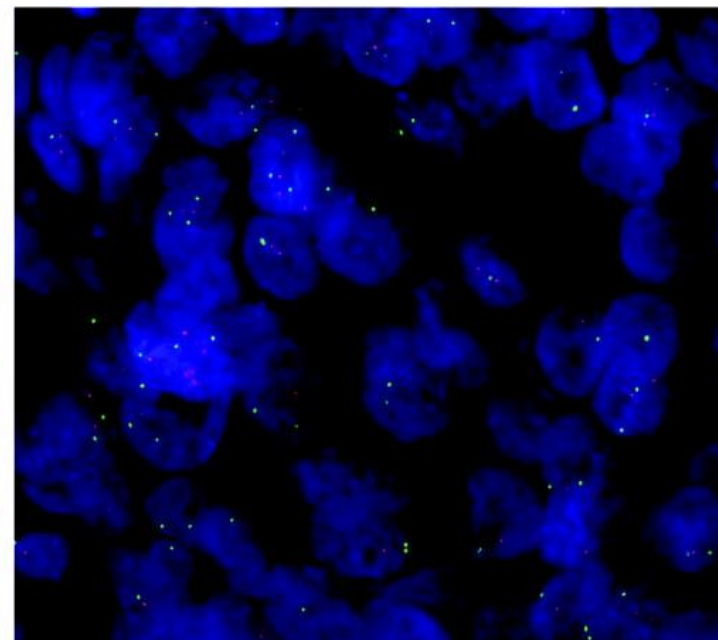
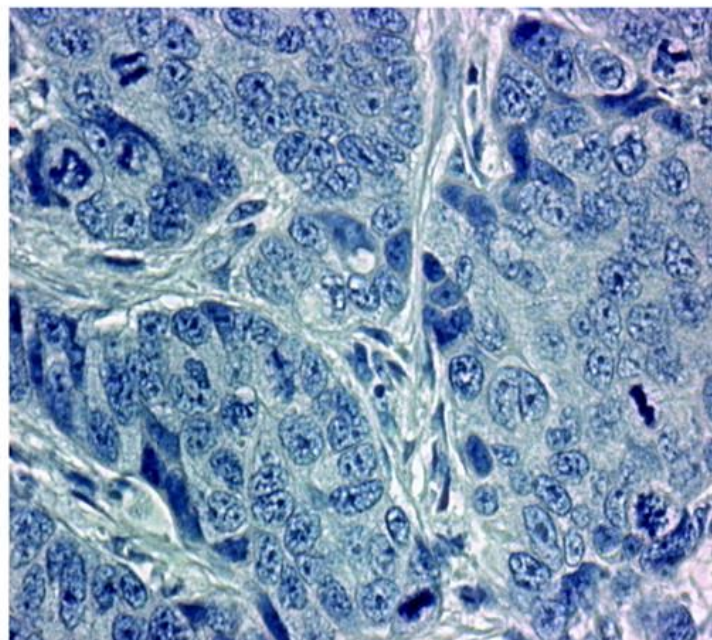
IHC

FISH

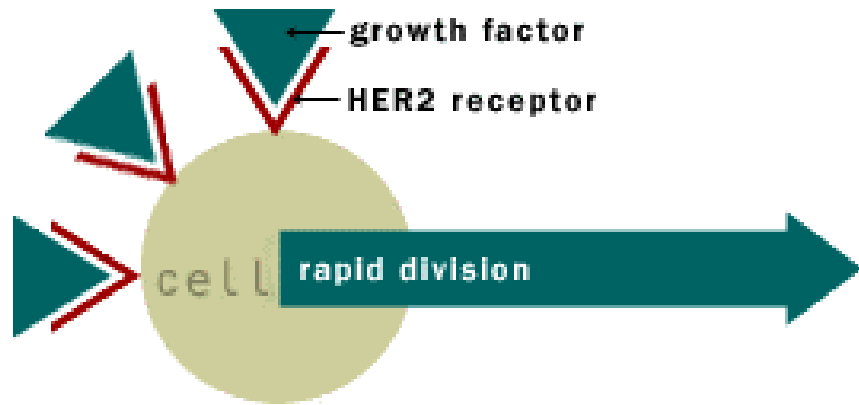
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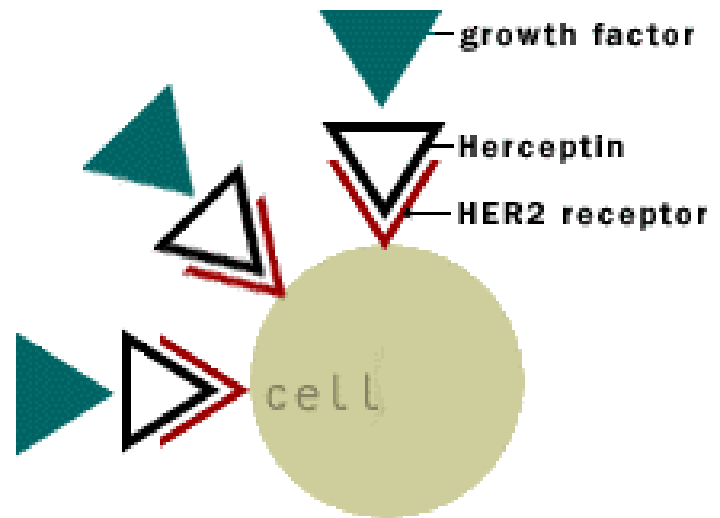
-



cancer

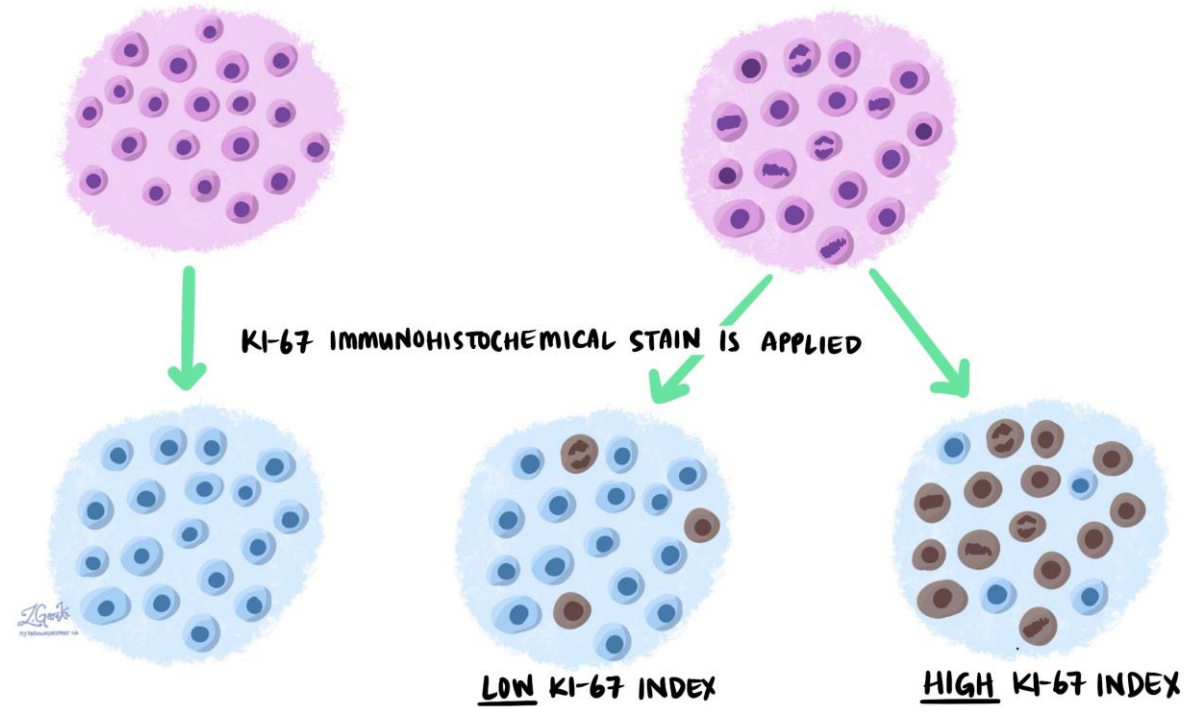


blocked

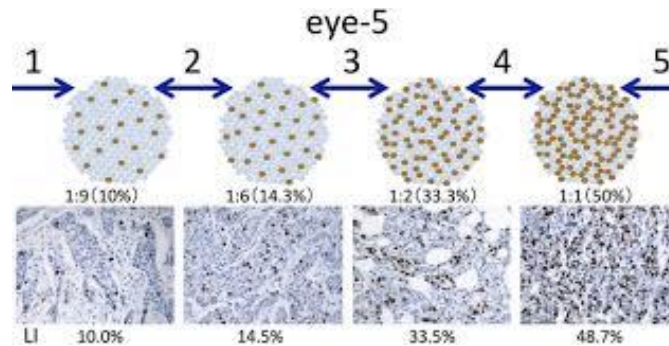


NON-PROLIFERATING CELLS

PROLIFERATING CELLS



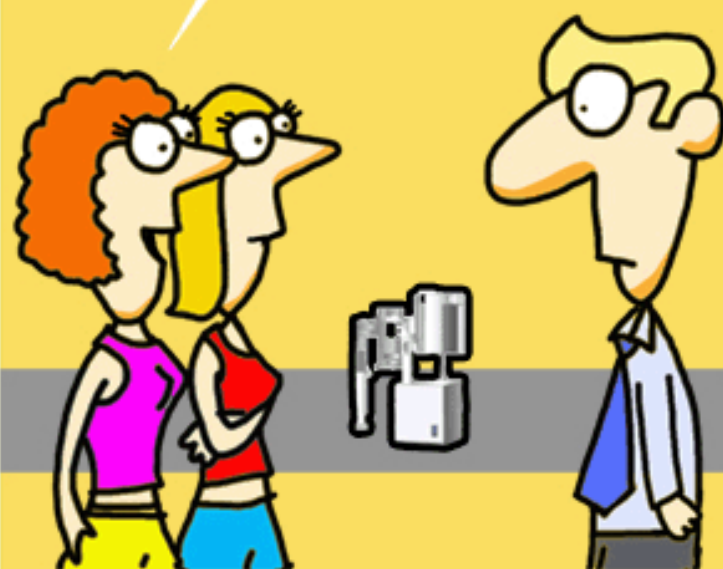
KI-67 IMMUNOHISTOCHEMICAL STAIN WILL STAIN ANY ACTIVELY PROLIFERATING CELLS BROWN



Our new microscope comes with five fluorescent filters, new condenser mechanism, dark-bright fields, stereovision, automated sensor....



Does it also come in pink?



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Bedankt voor uw aandacht!

Prof. dr. Ruth Achten
Anatomo-patholoog Jessa