

Author(s): Gerald Abrams, M.D., 2009

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M1 Patients and Populations: NEOPLASIA II

Gerald D. Abrams MD

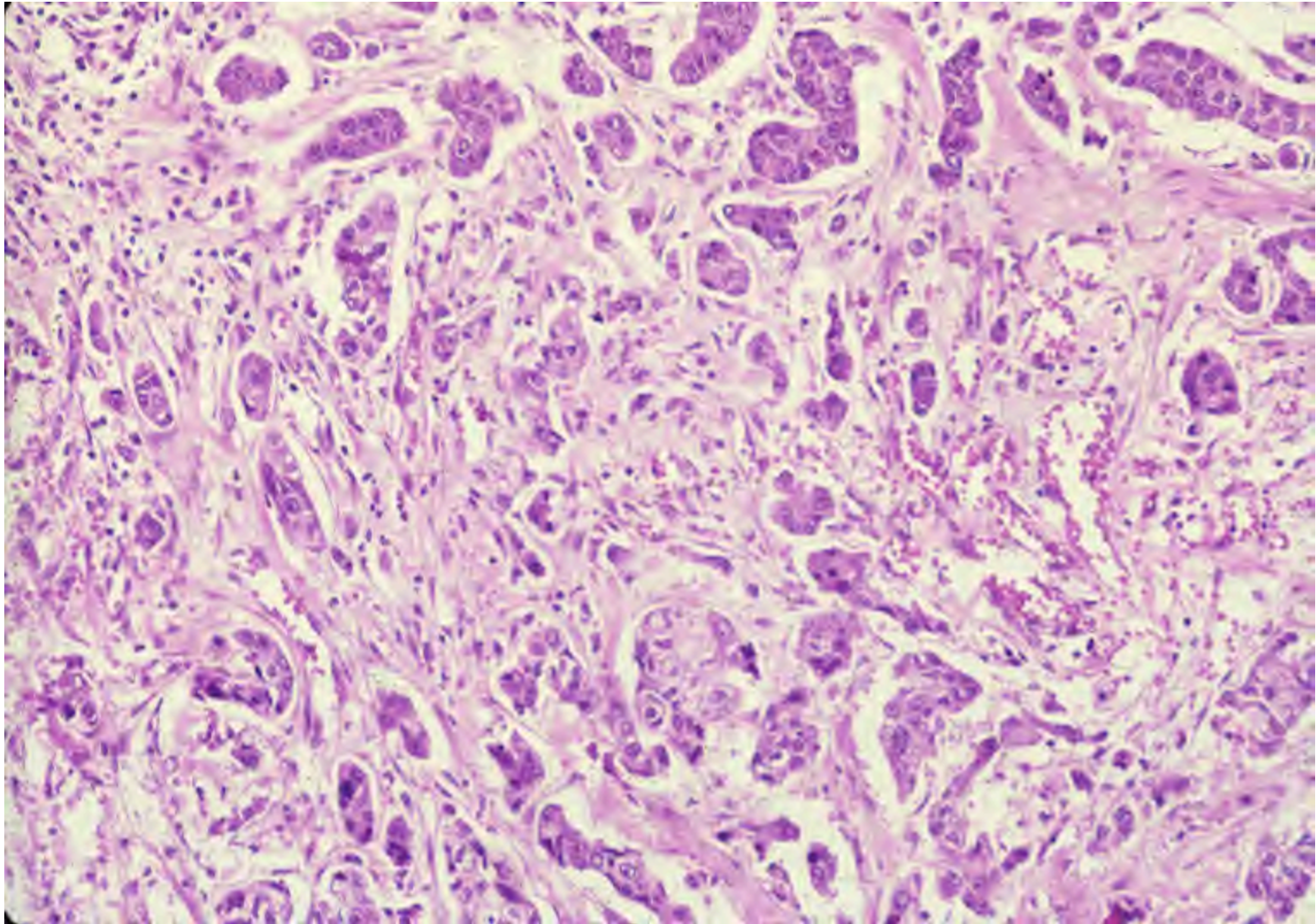
Fall 2008



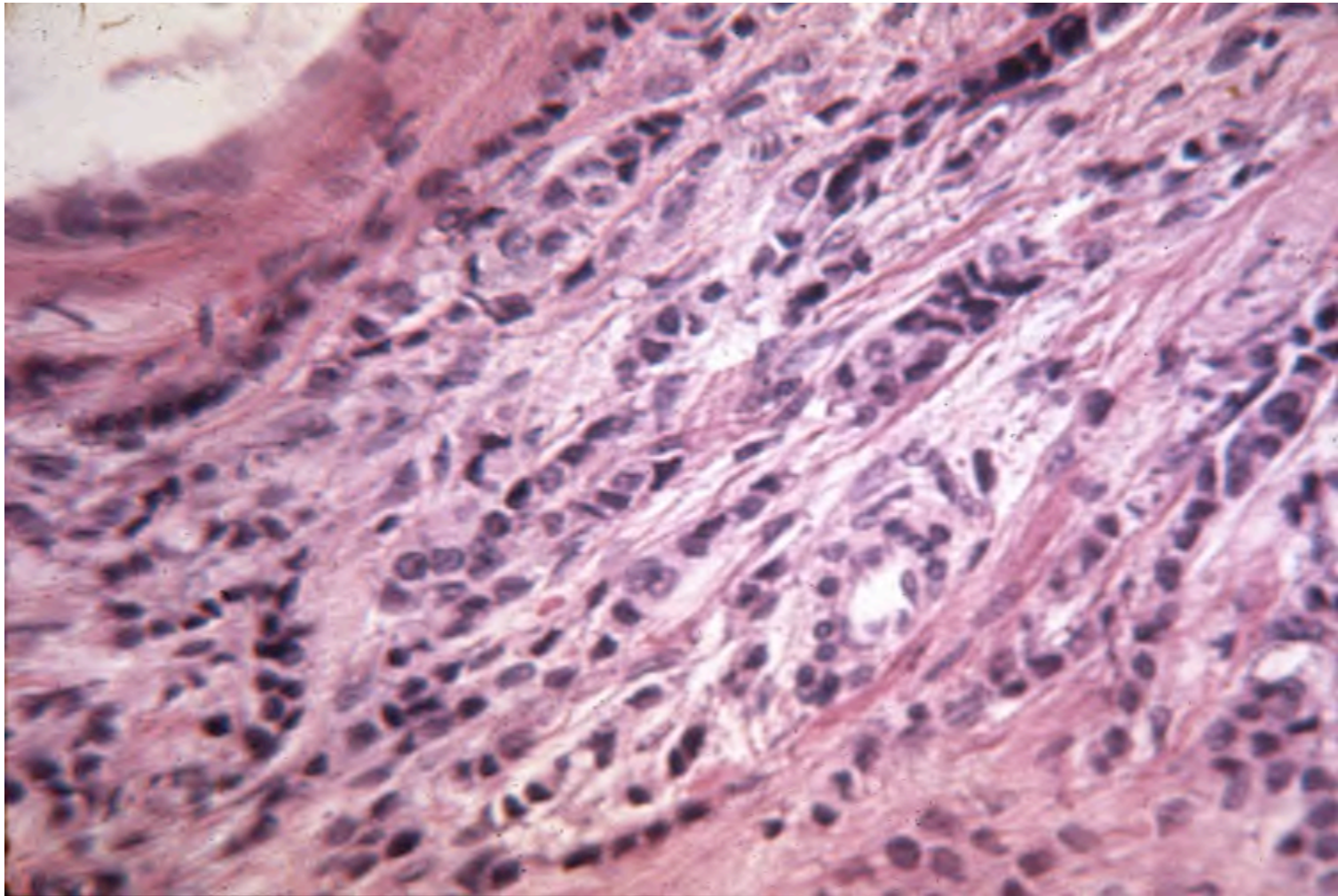
MICROSCOPIC FEATURES OF NEOPLASMS

- CONCEPT OF STROMA /
ANGIOGENESIS
- CONCEPT OF DIFFERENTIATION
- GRADING / STAGING

CANCER CELLS AND STROMA



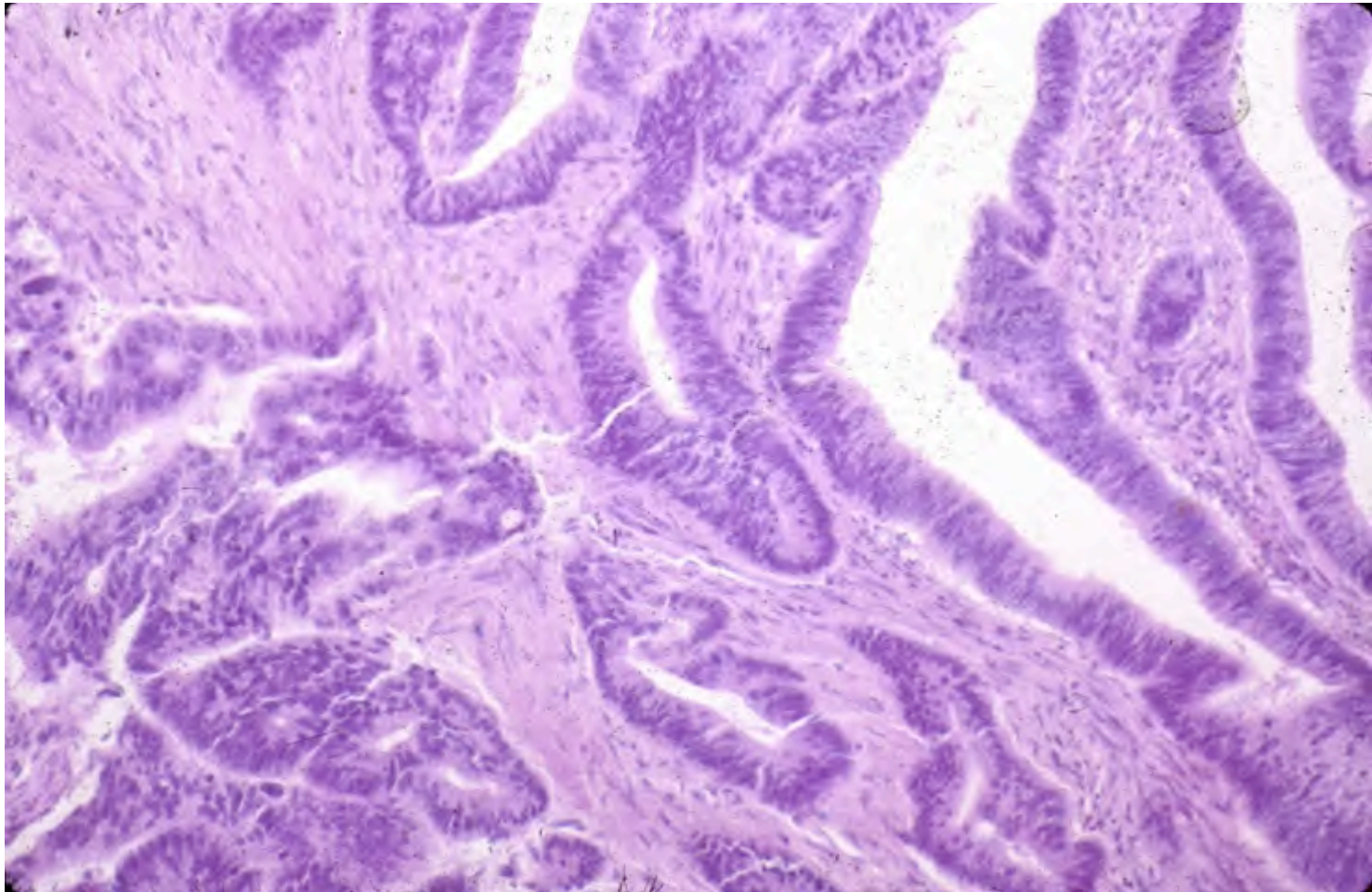
CANCER CELLS AND STROMA “SCIRRHOUS”



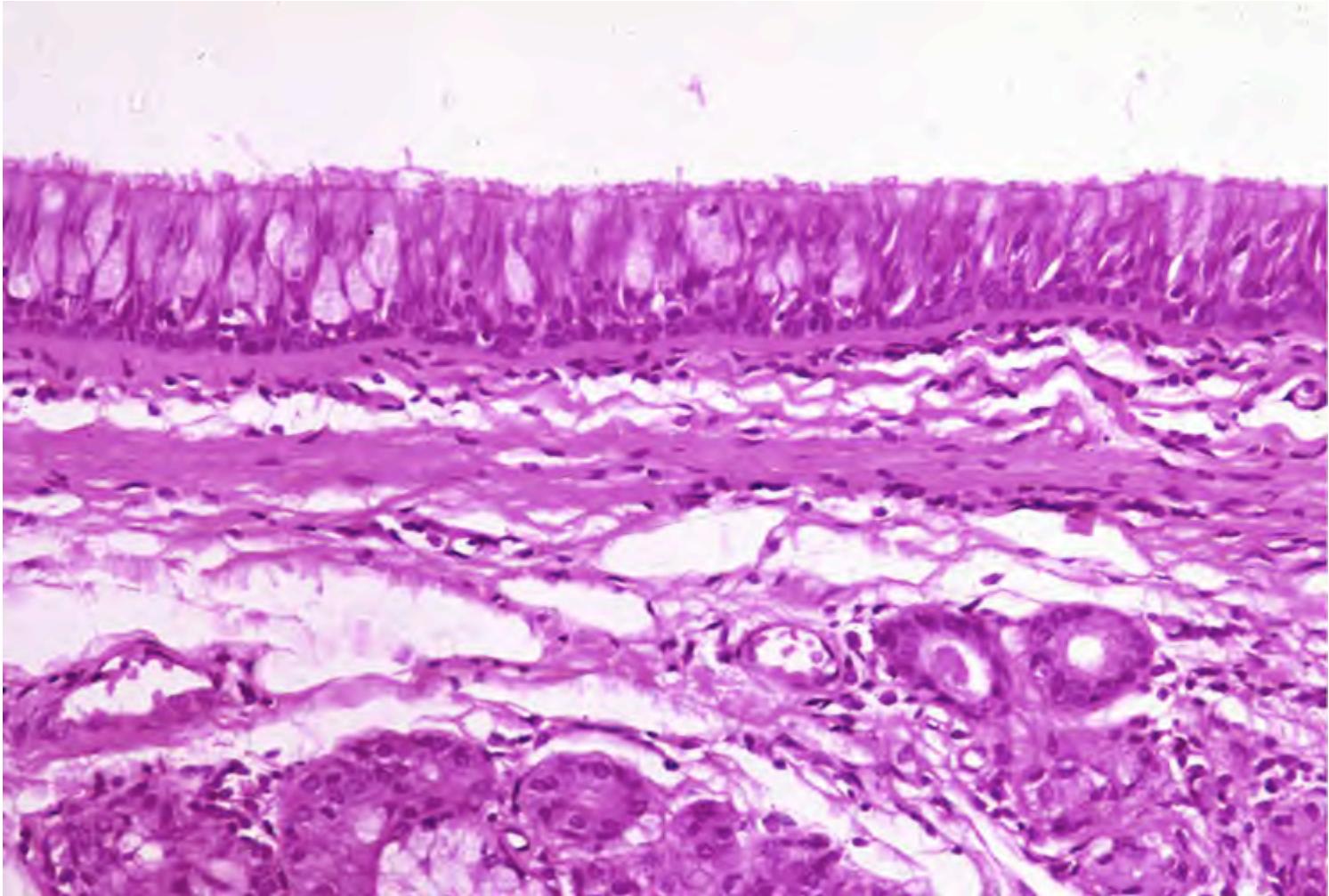
NORMAL COLONIC MUCOSA



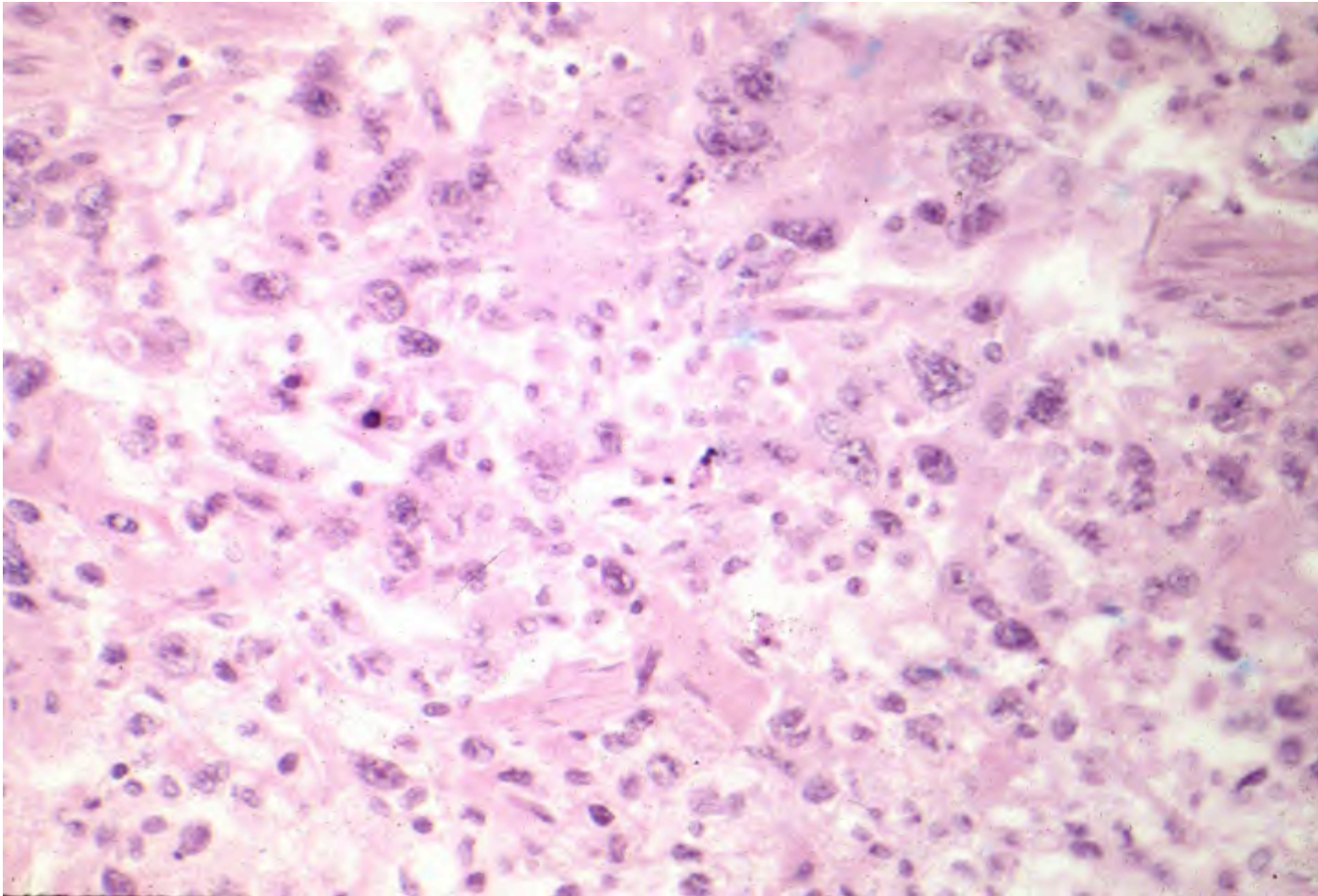
COLON CANCER, MODERATELY DIFFERENTIATED



NORMAL BRONCHIAL MUCOSA



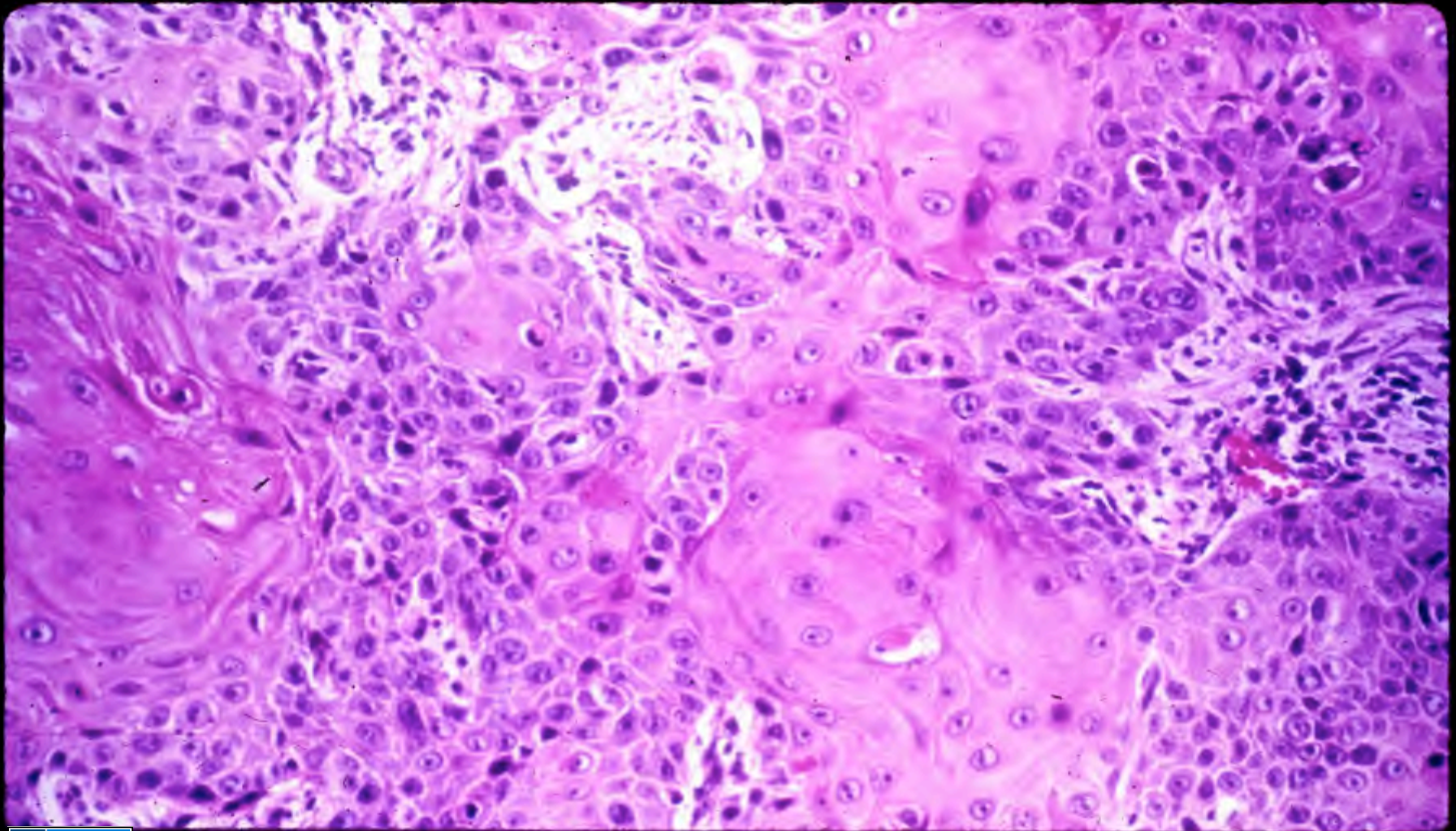
CANCER OF THE BRONCHUS ANAPLASTIC



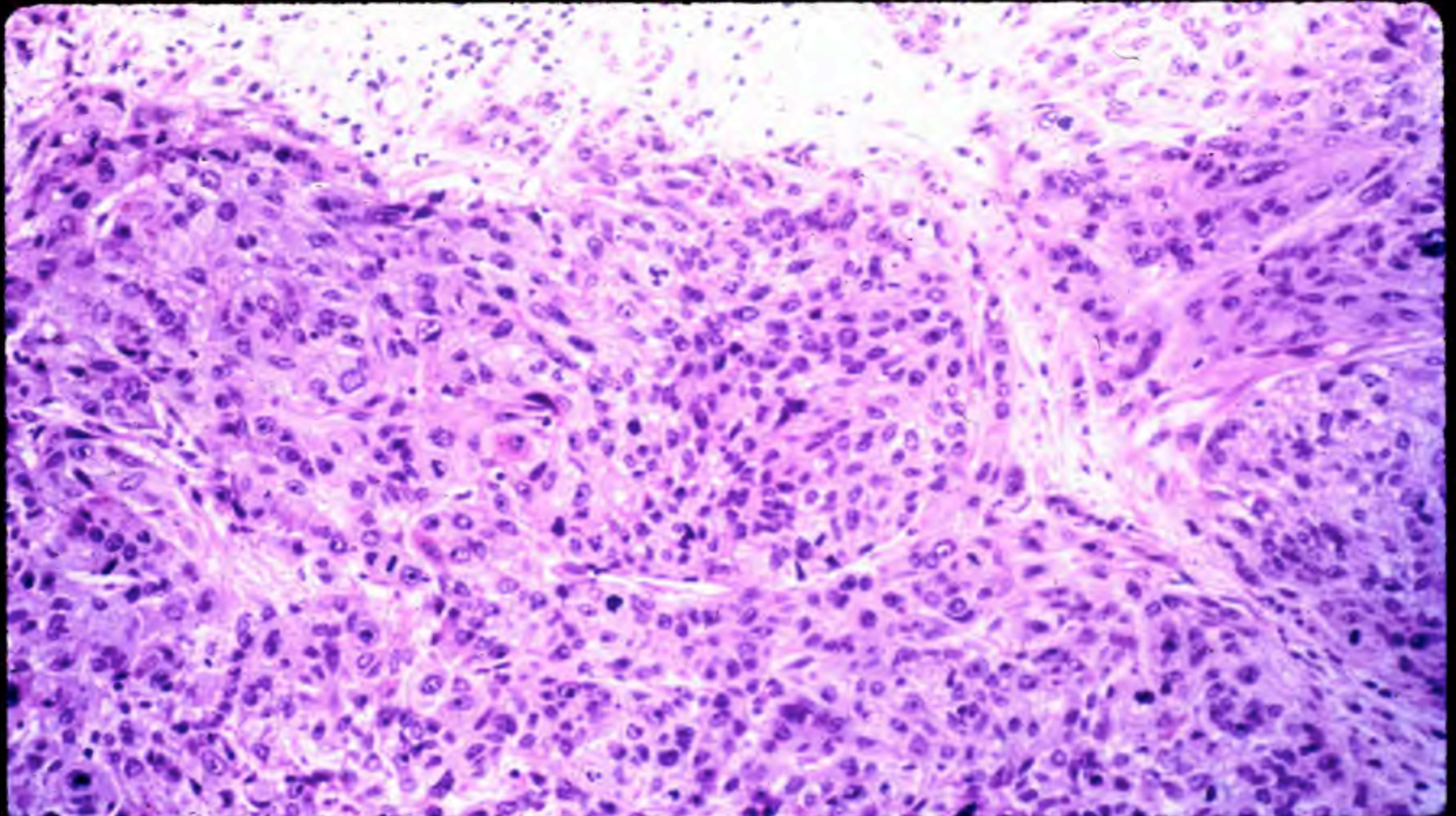
GRADING OF NEOPLASMS

- ASSESSMENT OF THE DEGREE OF DIFFERENTIATION OF A NEOPLASM
- BASED ON THE RESEMBLANCE OF THE NEOPLASM TO THE NORMAL TISSUE OF ORIGIN

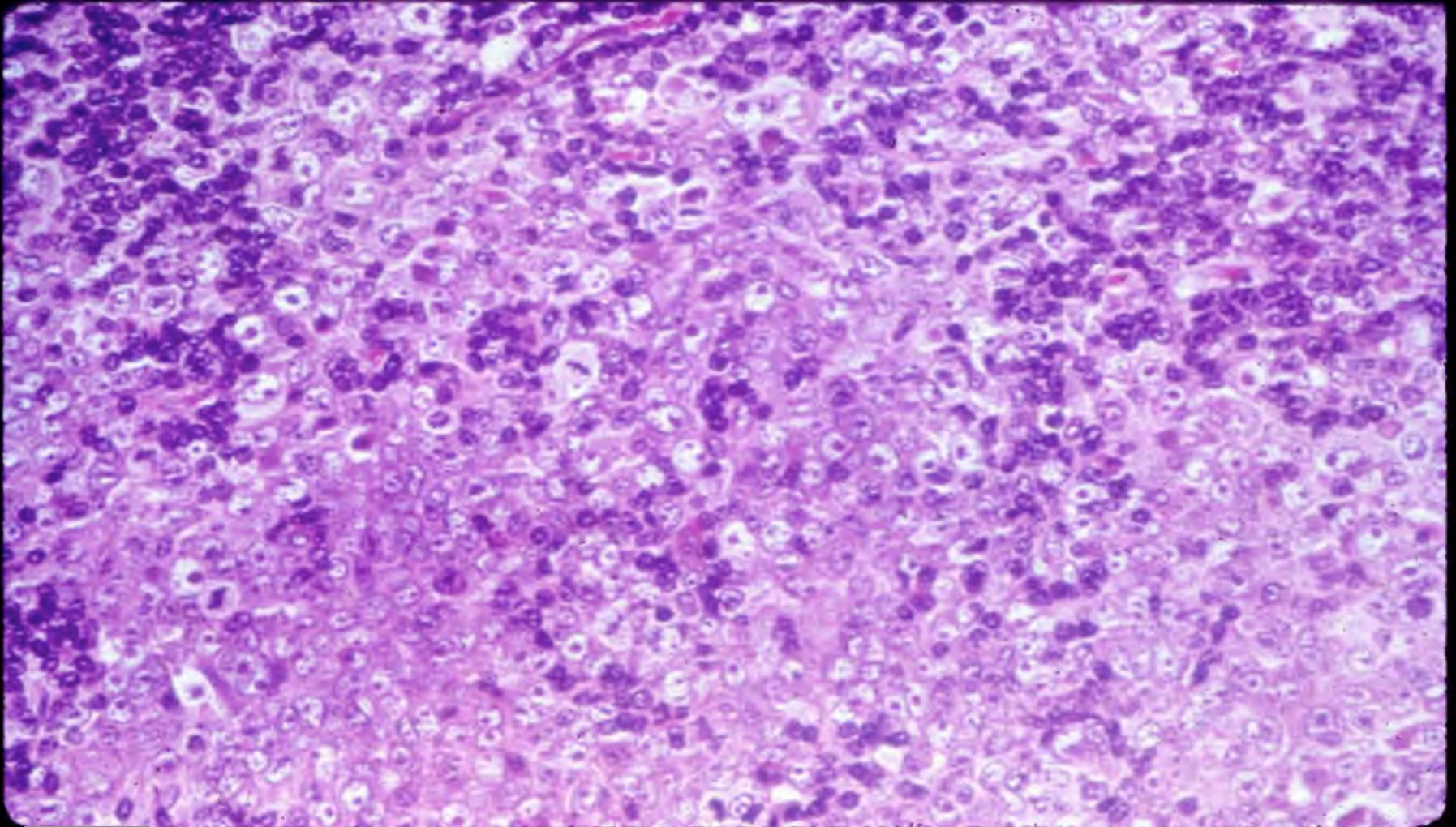
WELL DIFFERENTIATED SQUAMOUS CELL CARCINOMA



MODERATELY DIFFERENTIATED SQUAMOUS CELL CARCINOMA



POORLY DIFFERENTIATED SQUAMOUS CELL CARCINOMA



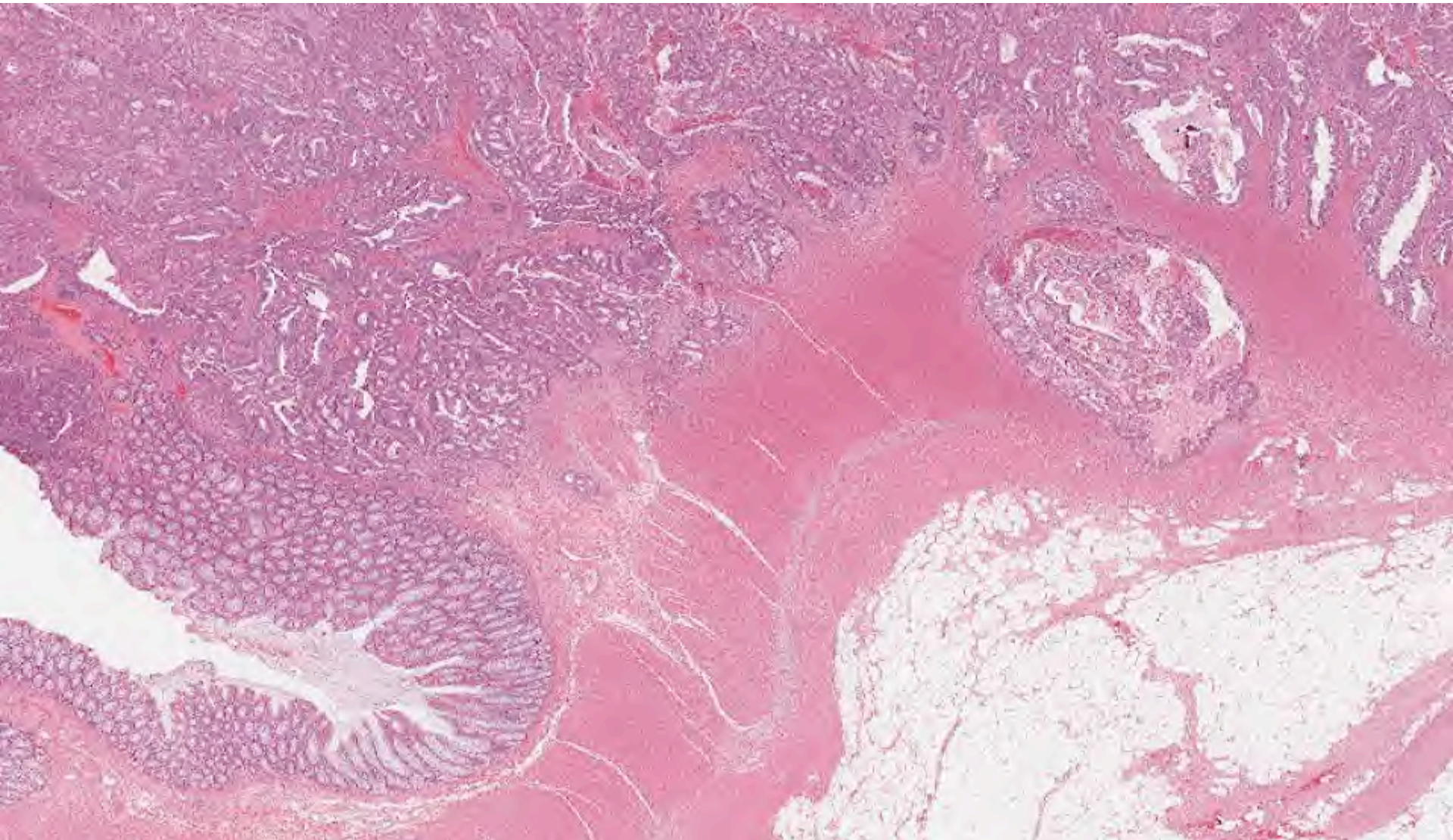
STAGING OF NEOPLASMS

- ASSESSMENT OF THE EXTENT OF PROGRESSION OF A NEOPLASM IN THE BODY
- BASED ON THE SIZE AND EXTENT OF THE PRIMARY, AND ON THE PRESENCE OR ABSENCE OF REGIONAL AND DISTANT METASTASES

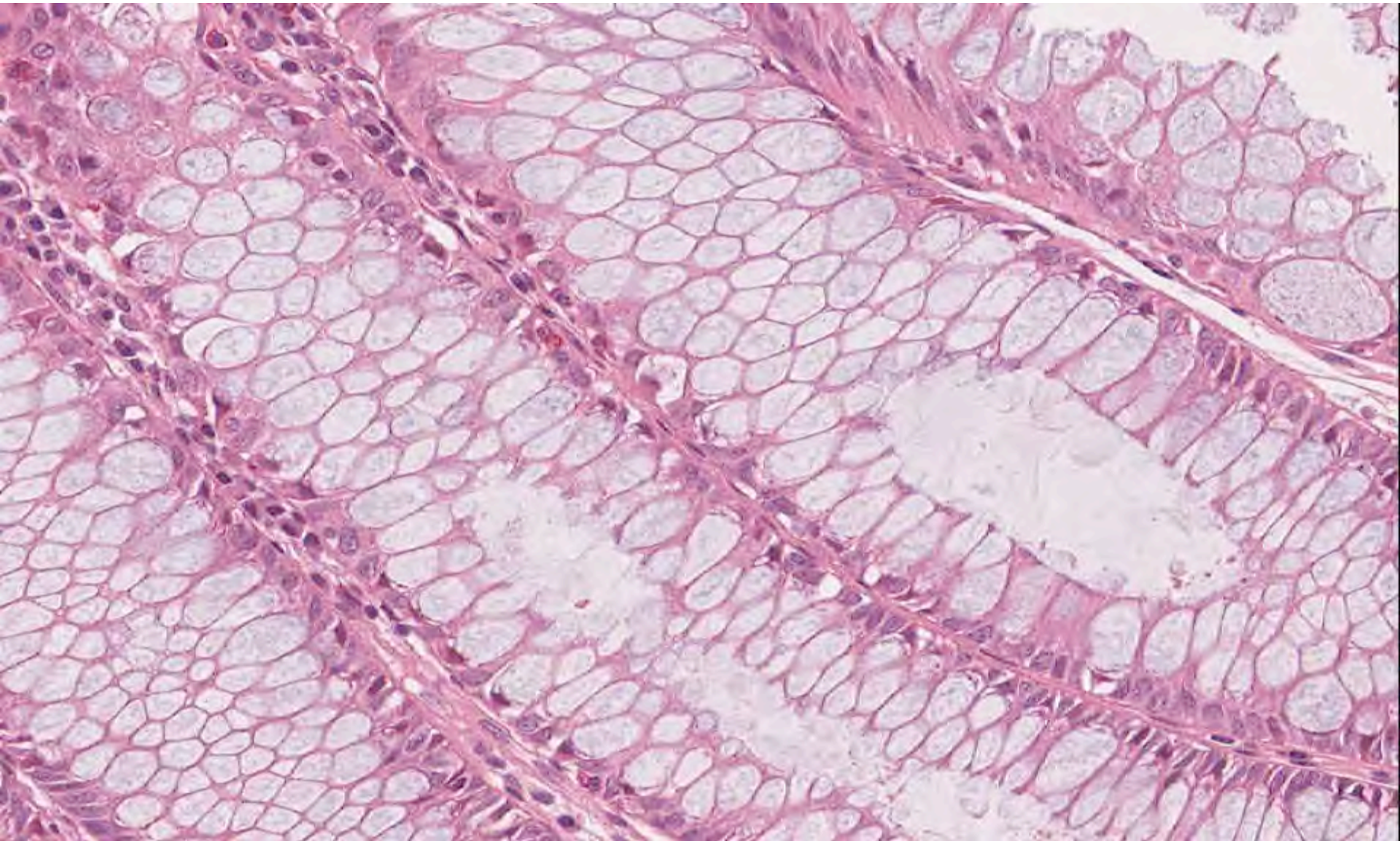
HISTOPATHOLOGIC DIAGNOSIS OF NEOPLASMS

- DIAGNOSIS AS A “PREDICTION”
- EVALUATION OF:
 - ARCHITECTURAL ARRANGEMENT
 - RELATION OF NEOPLASTIC CELLS
TO NORMAL SURROUNDINGS
 - CYTOLOGIC FEATURES OF
NEOPLASTIC CELLS

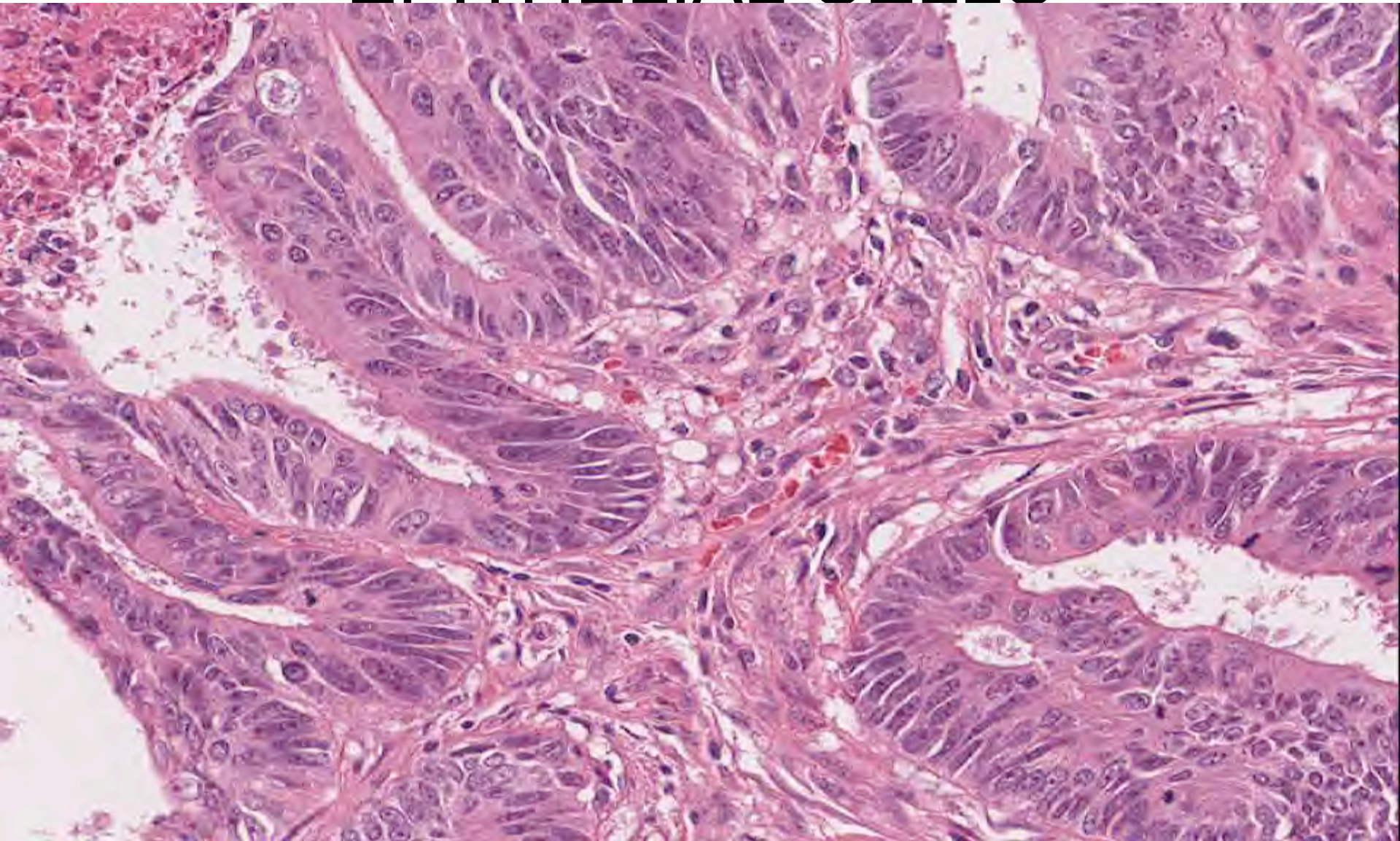
INVASION



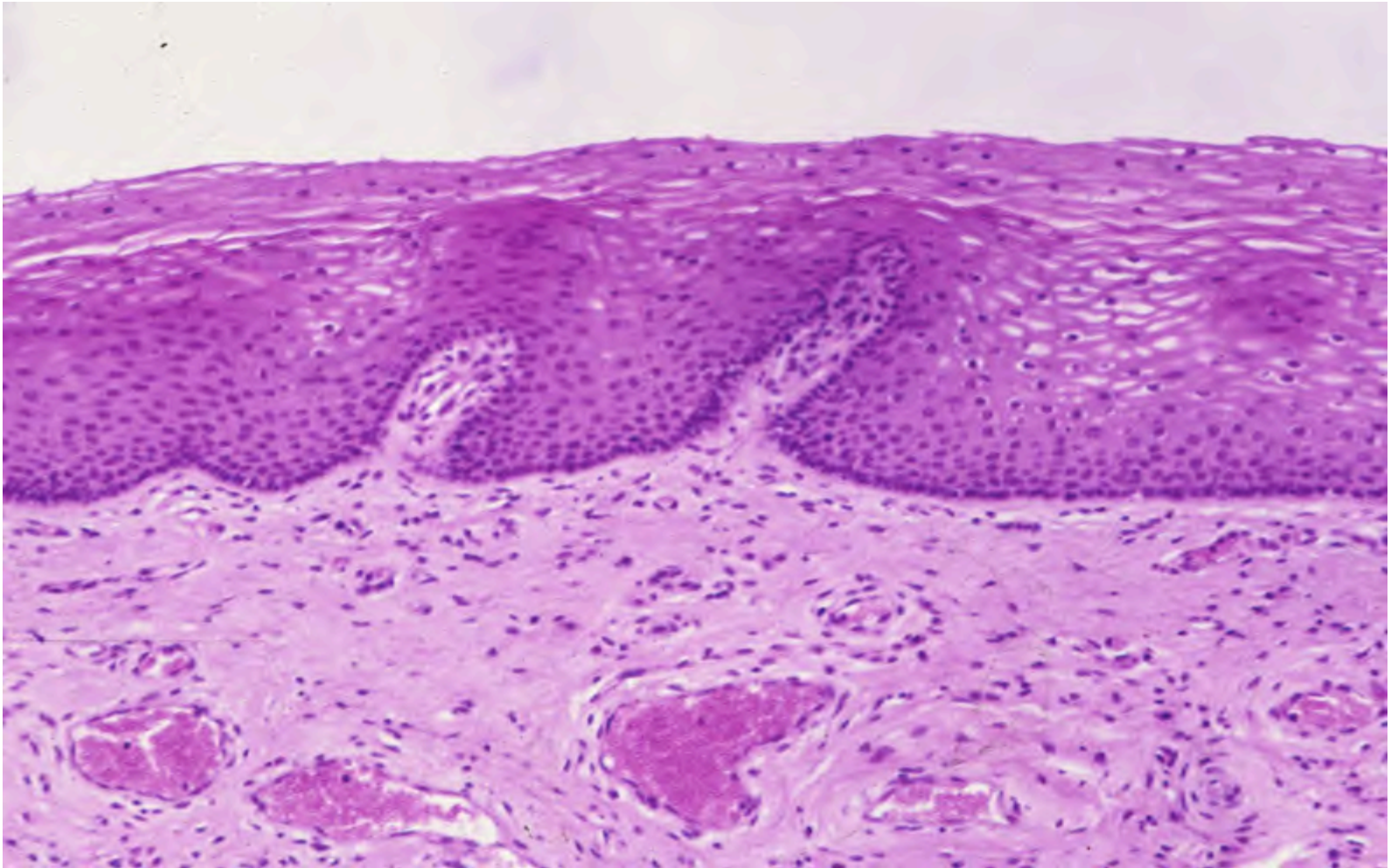
NORMAL COLONIC EPITHELIAL CELLS



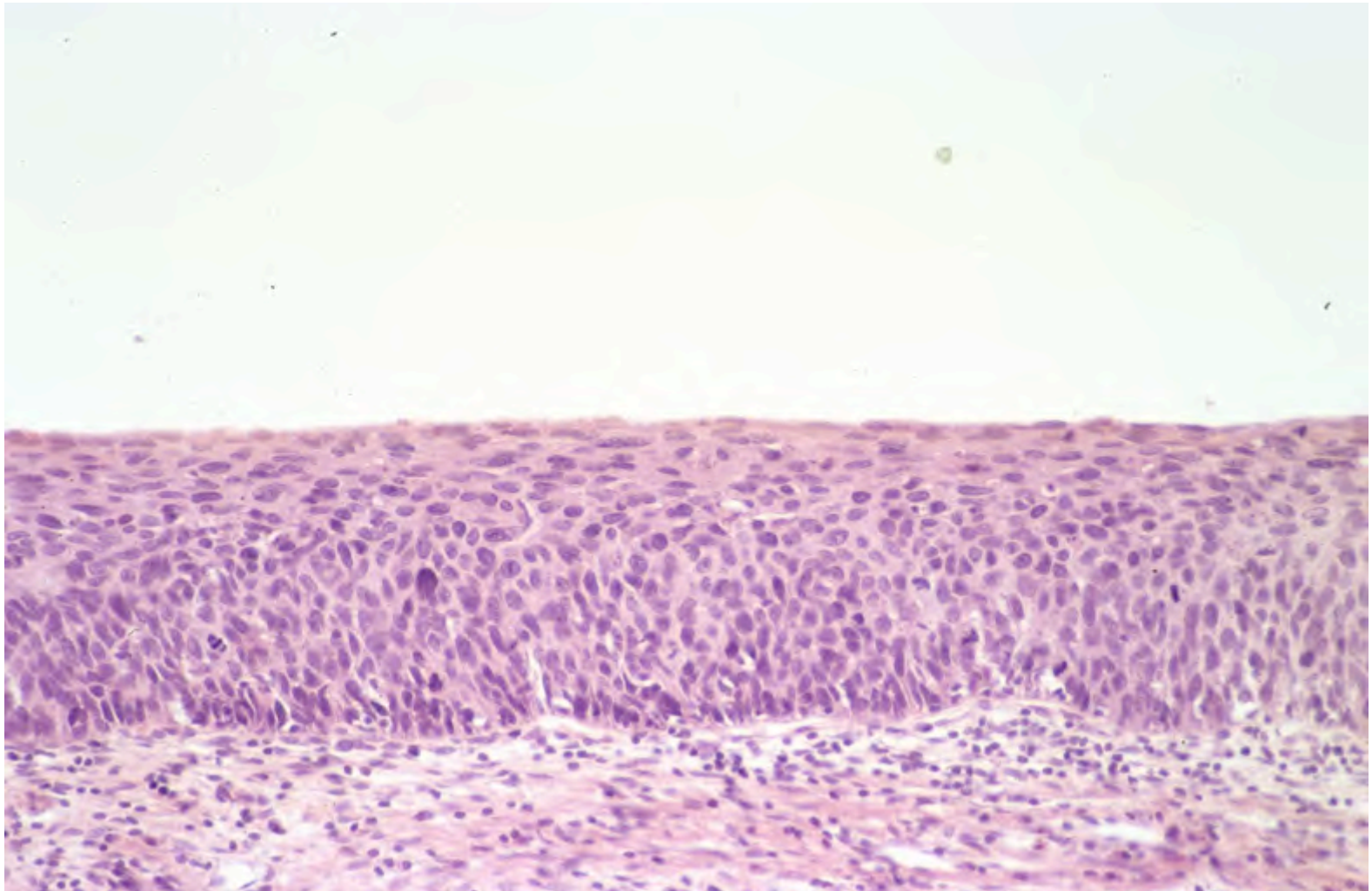
NEOPLASTIC COLONIC EPITHELIAL CELLS



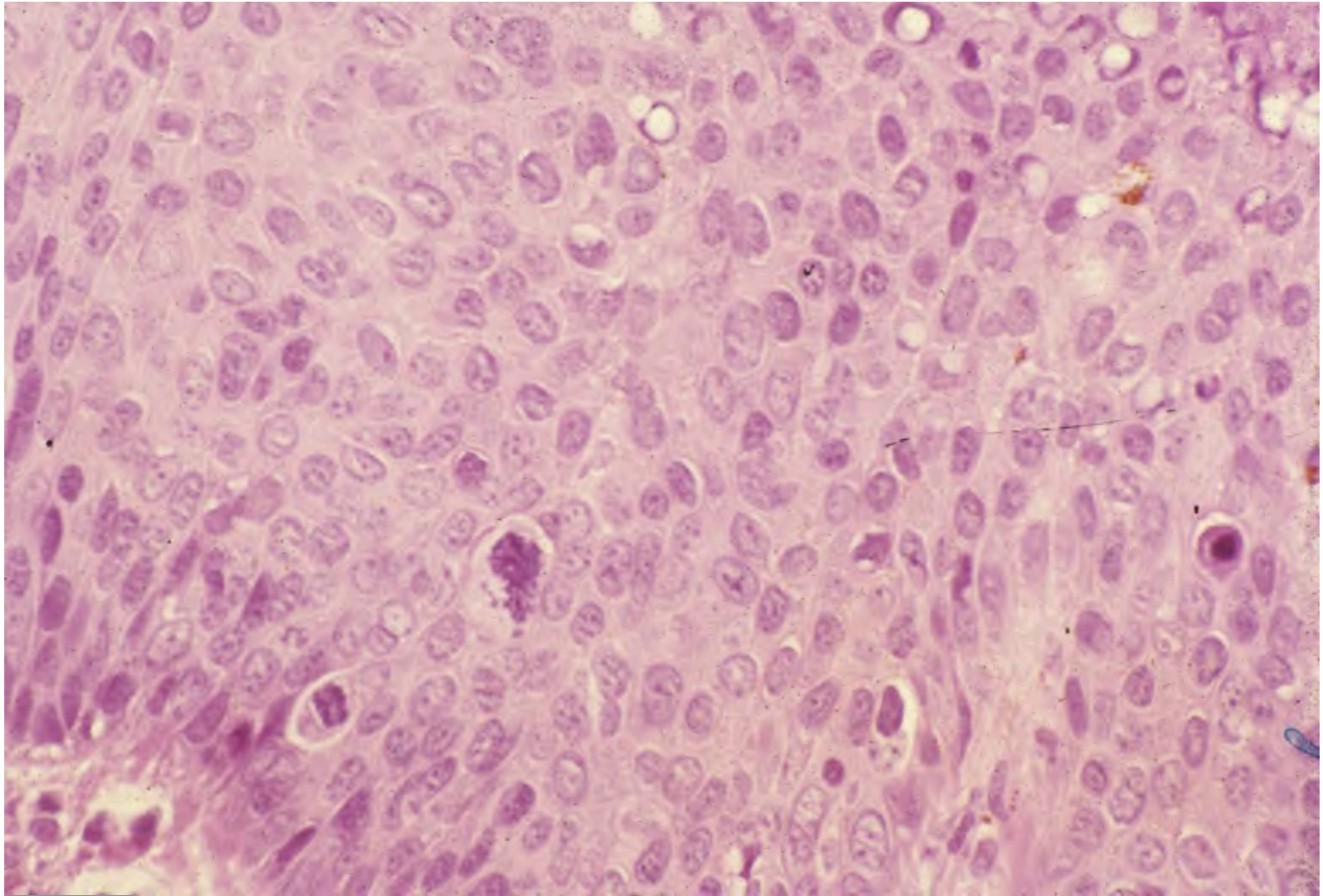
NORMAL SQUAMOUS EPITHELIUM



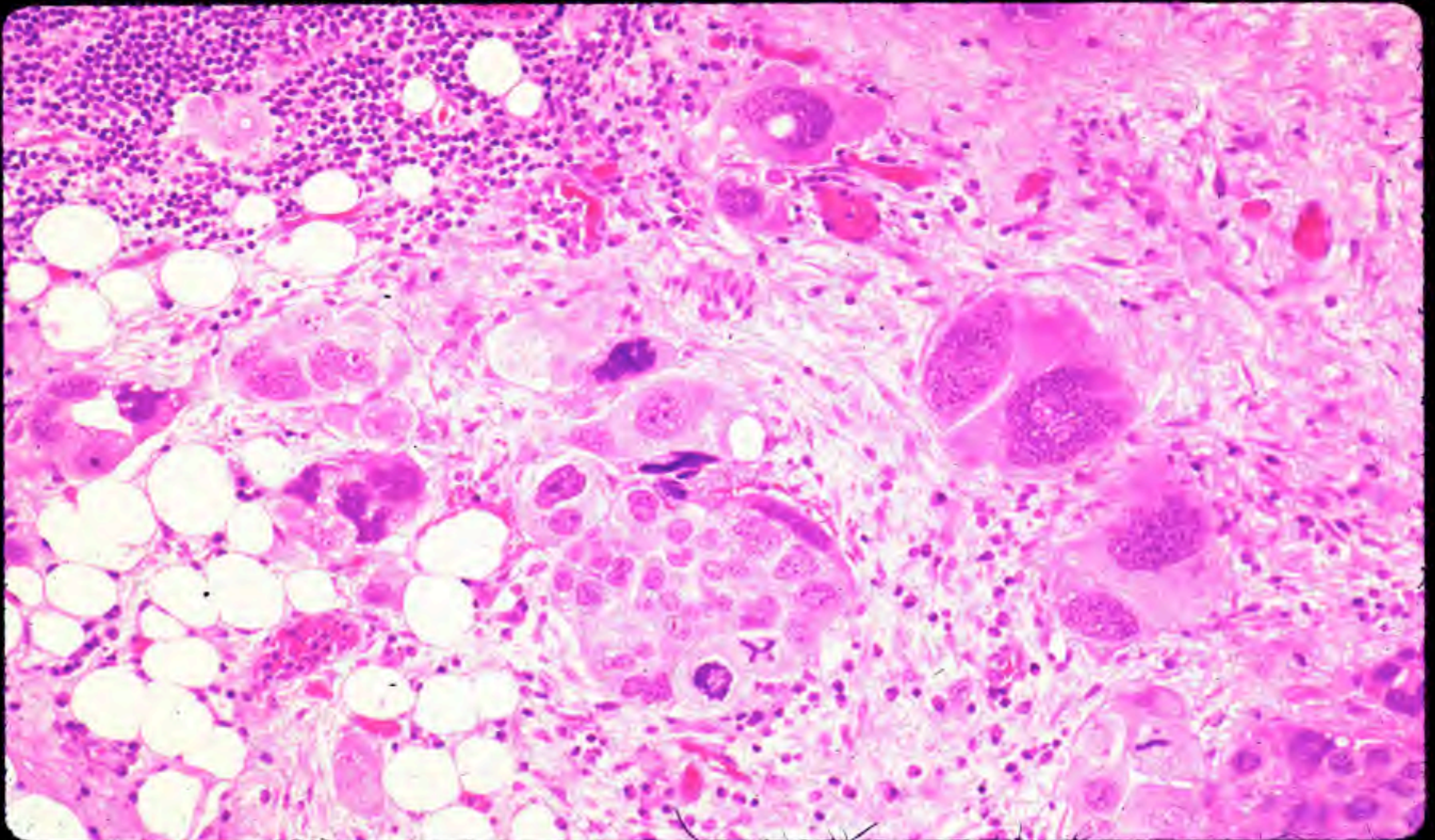
DYSPLASTIC SQUAMOUS EPITHELIUM



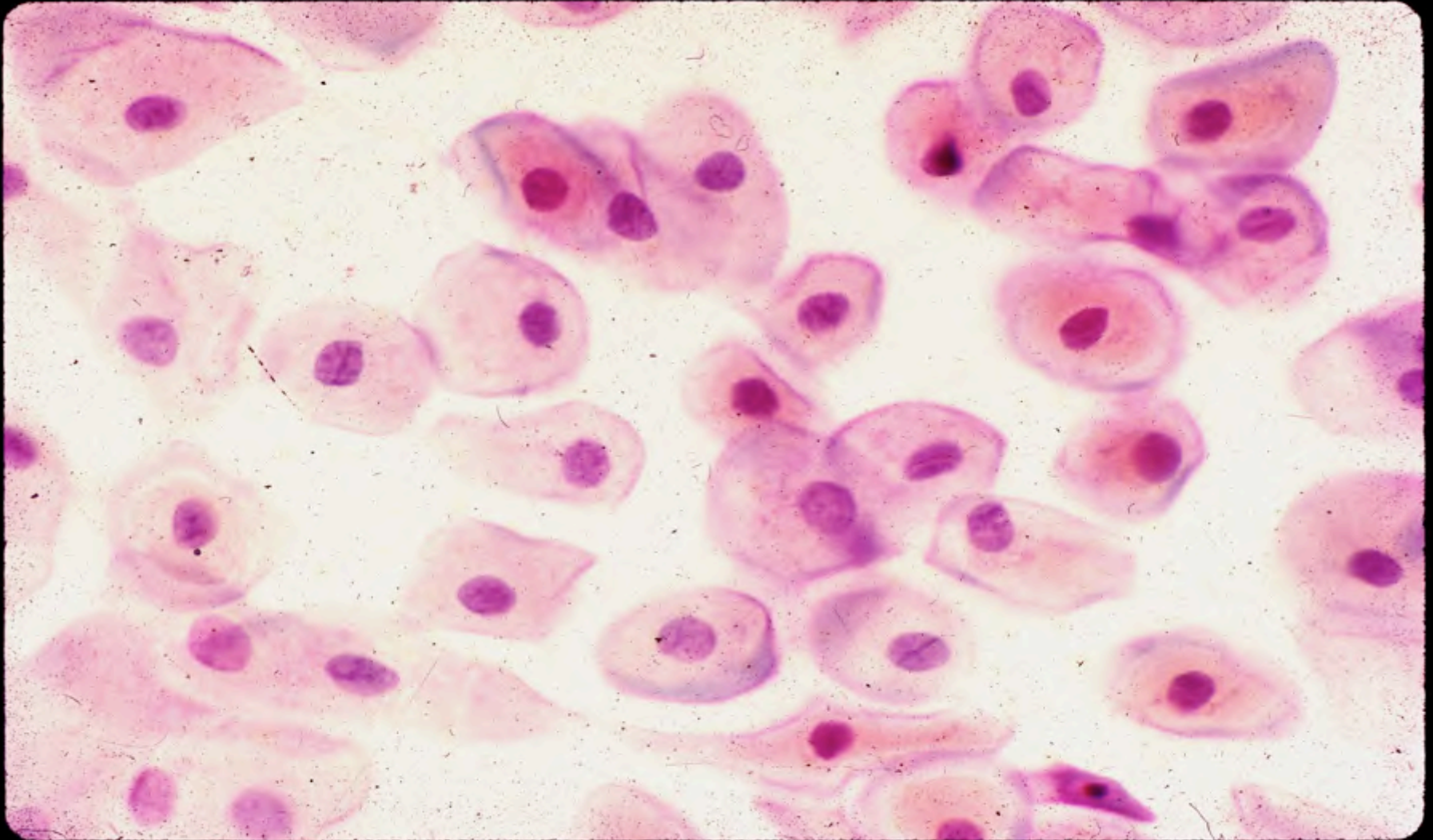
CARCINOMA IN SITU



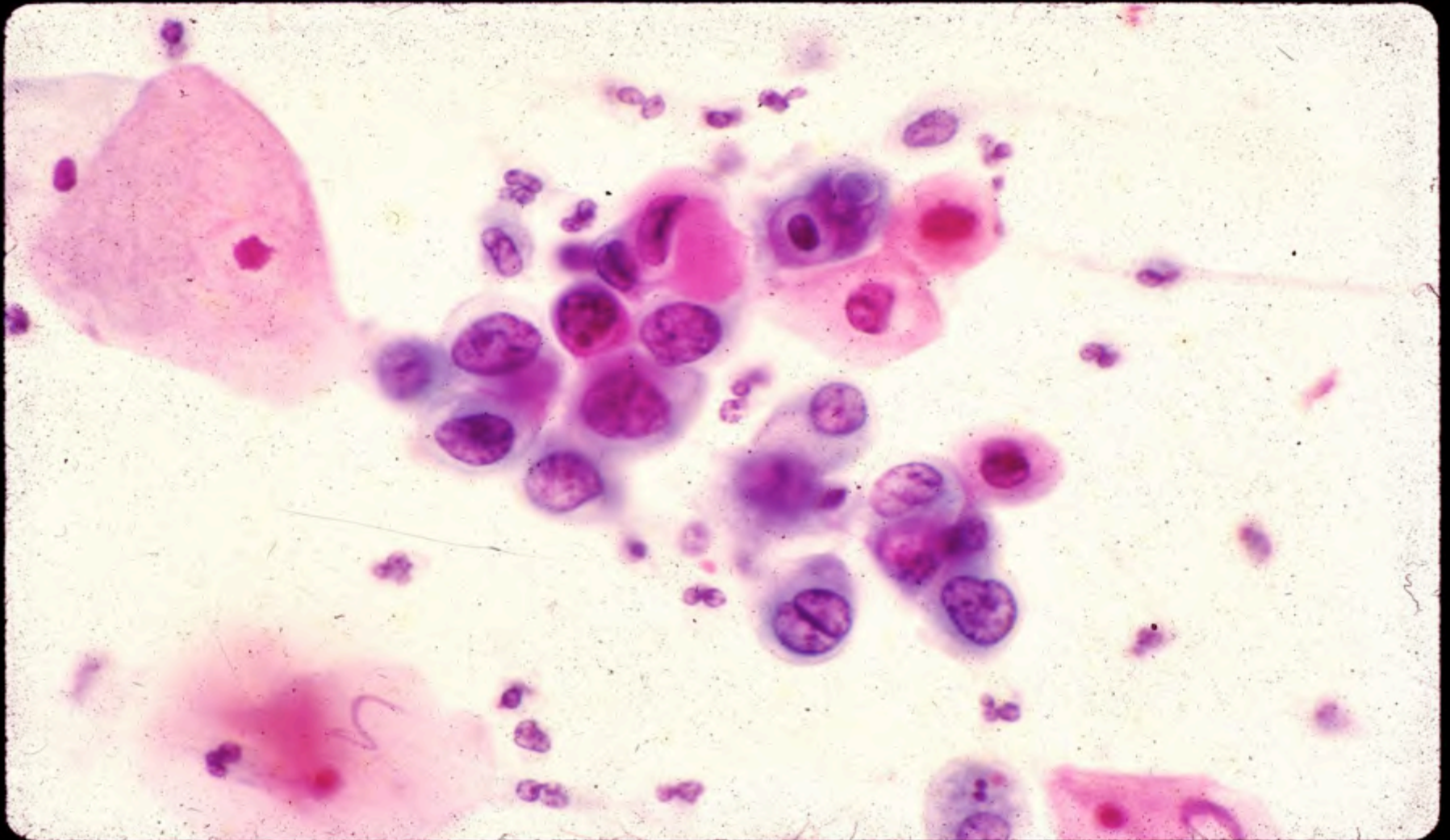
CELLULAR FEATURES OF ANAPLASIA



PAP SMEAR NORMAL CELLS



PAP SMEAR MALIGNANT CELLS



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