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

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M1 Patients and Populations:
NEOPLASIA II

Gerald D. Abrams MD

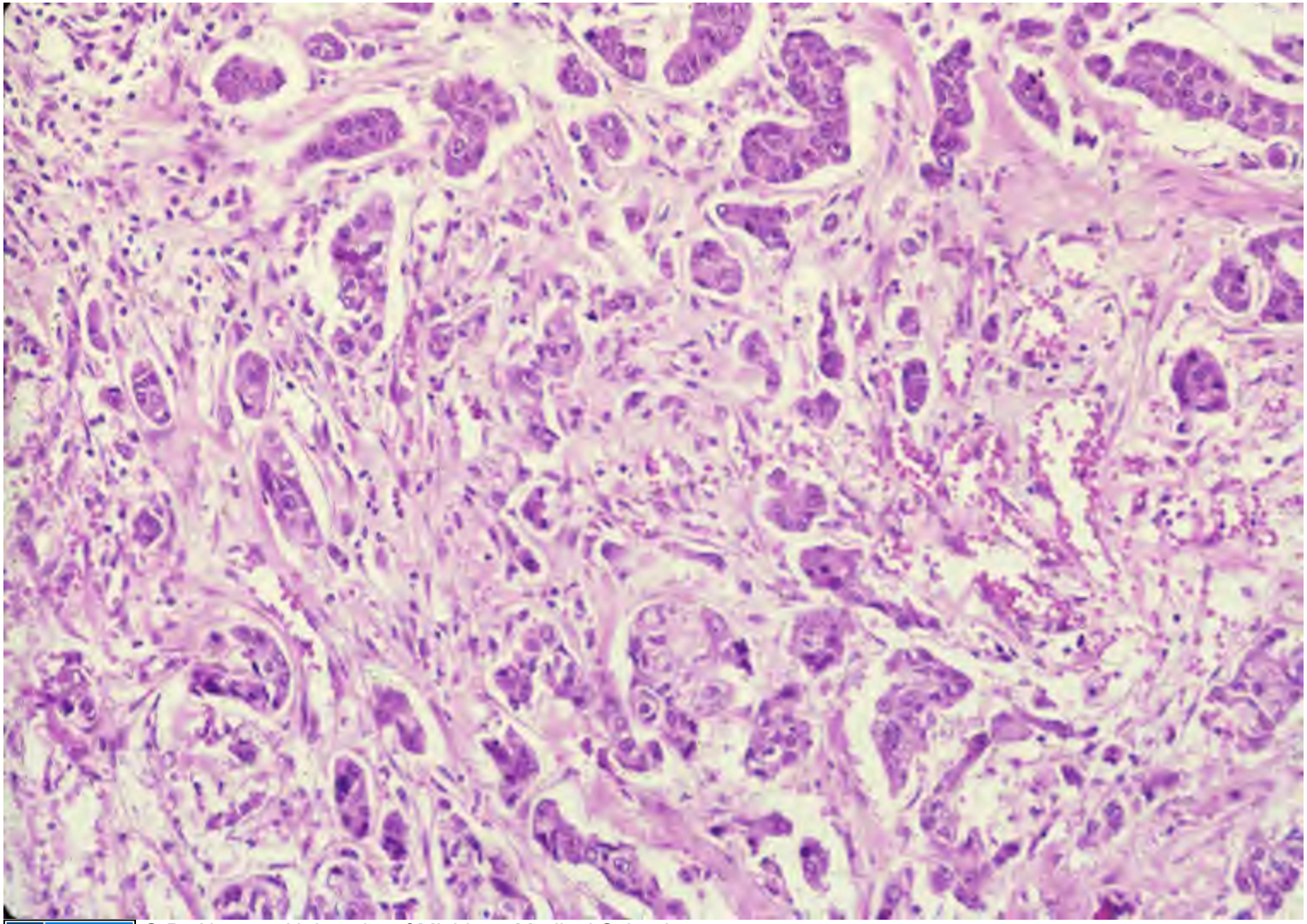
Fall 2008

University of Michigan
Medical School

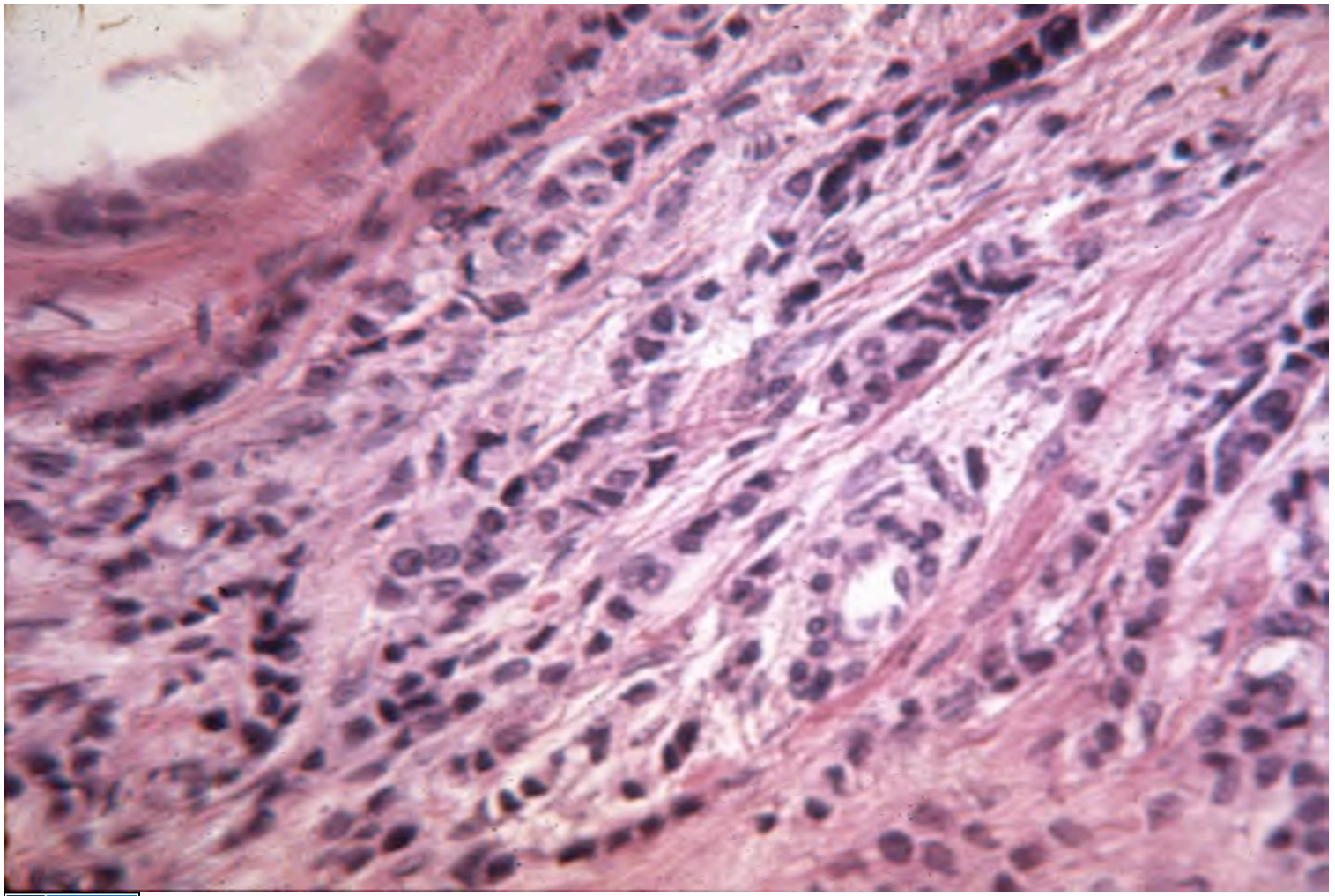
MICROSCOPIC FEATURES OF NEOPLASMS

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

CANCER CELLS AND STROMA

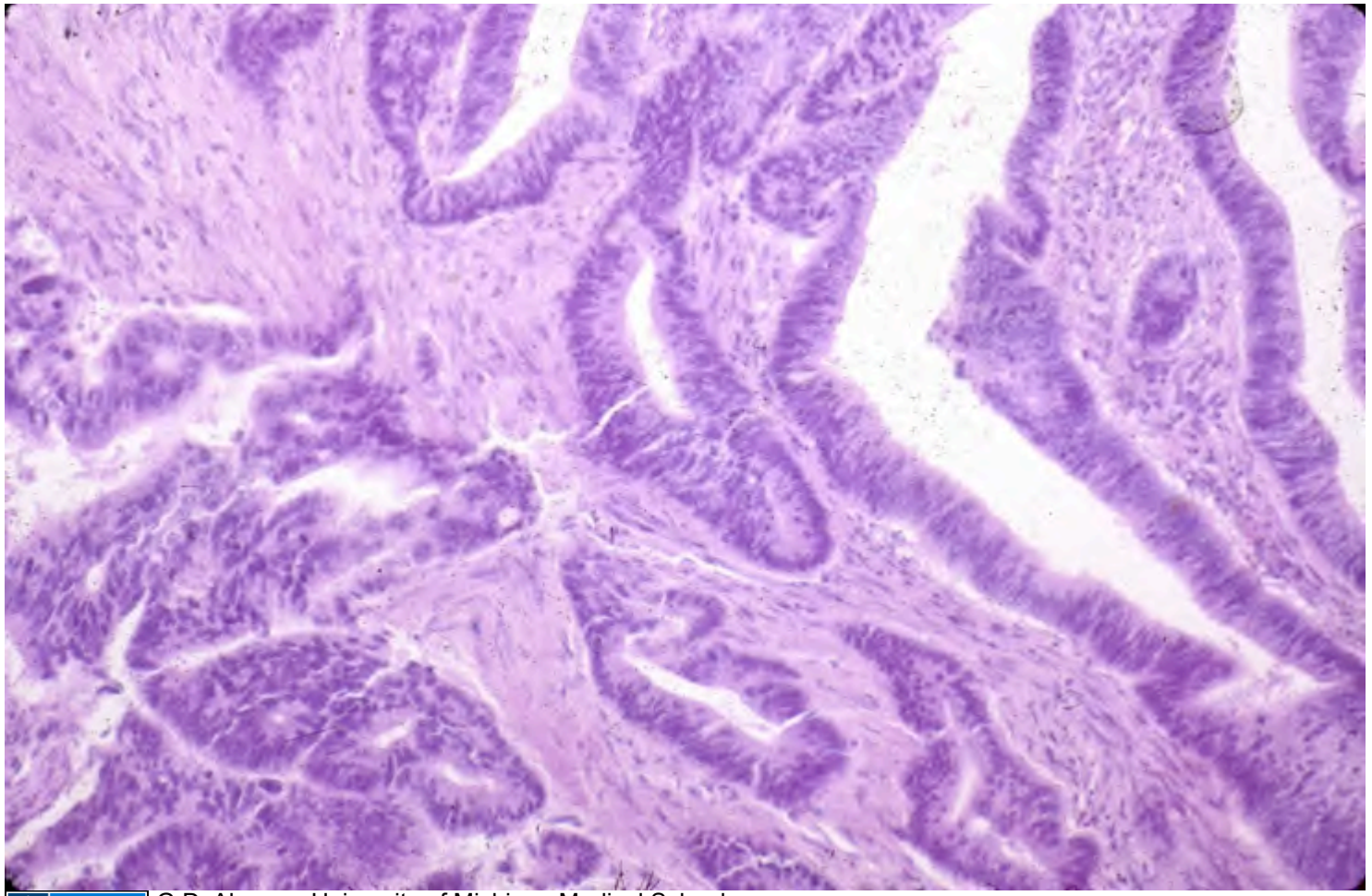


CANCER CELLS AND STROMA "SCIRRHOUS"

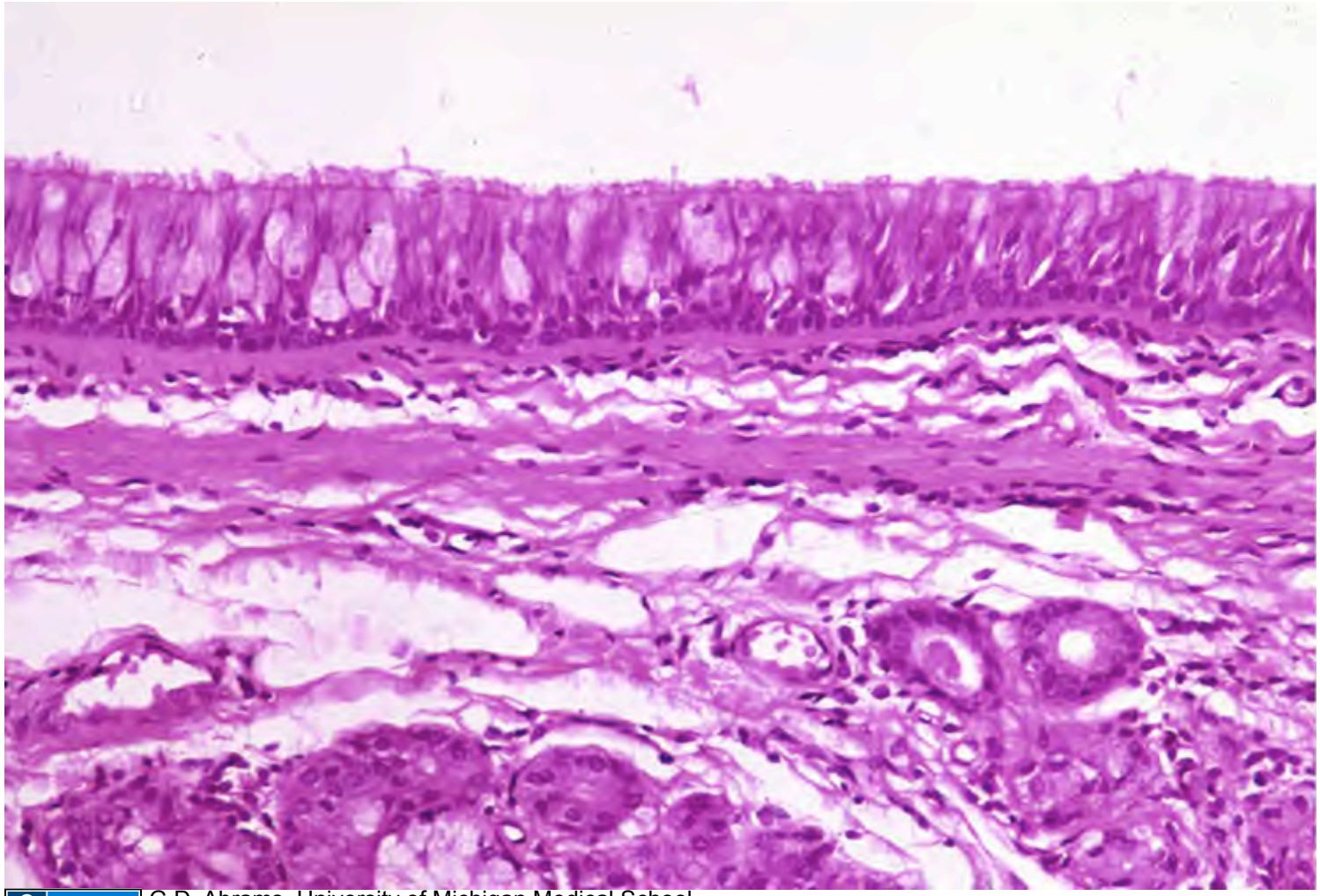


NORMAL COLONIC MUCOSA

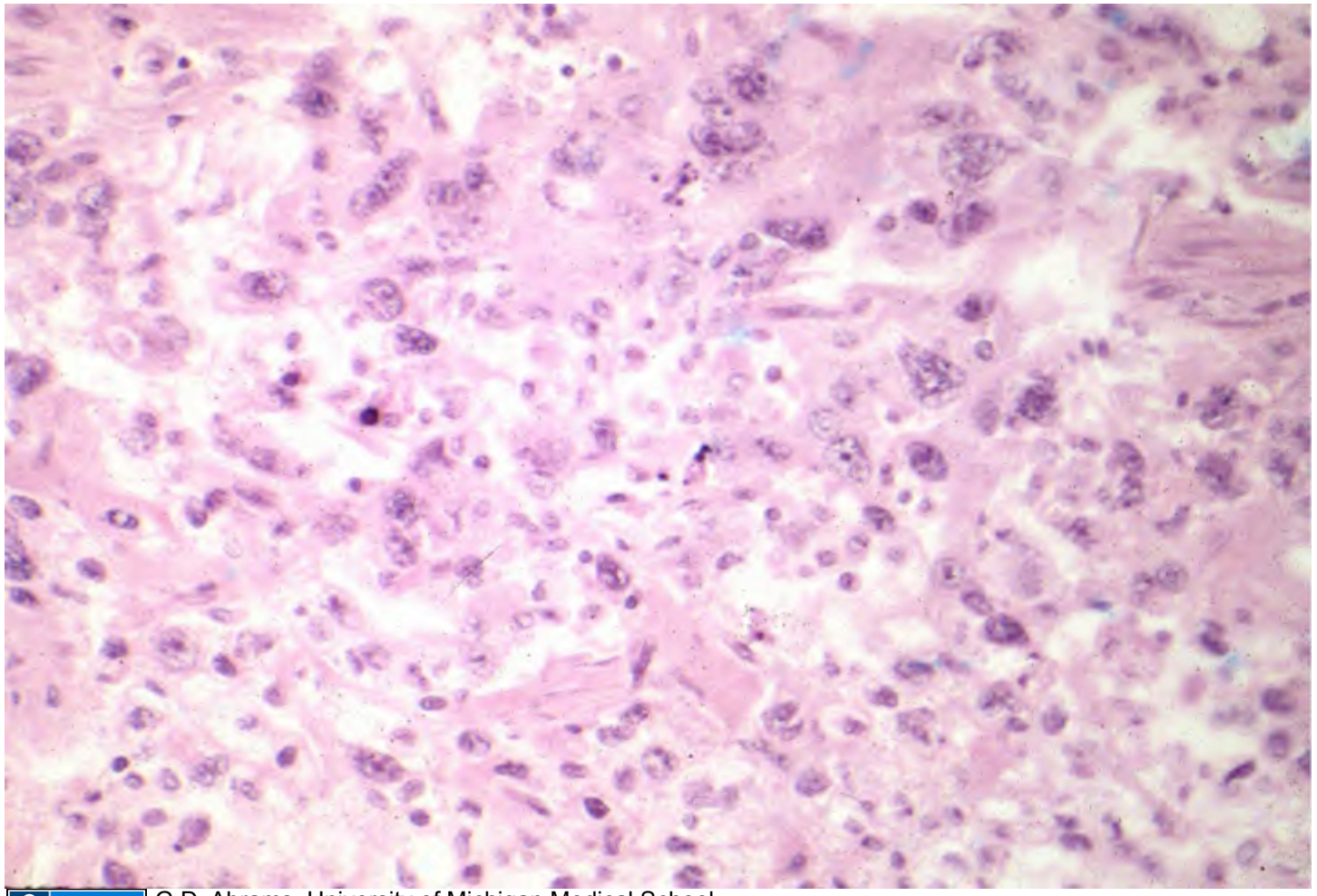
COLON CANCER, MODERATELY DIFFERENTIATED



NORMAL BRONCHIAL MUCOSA



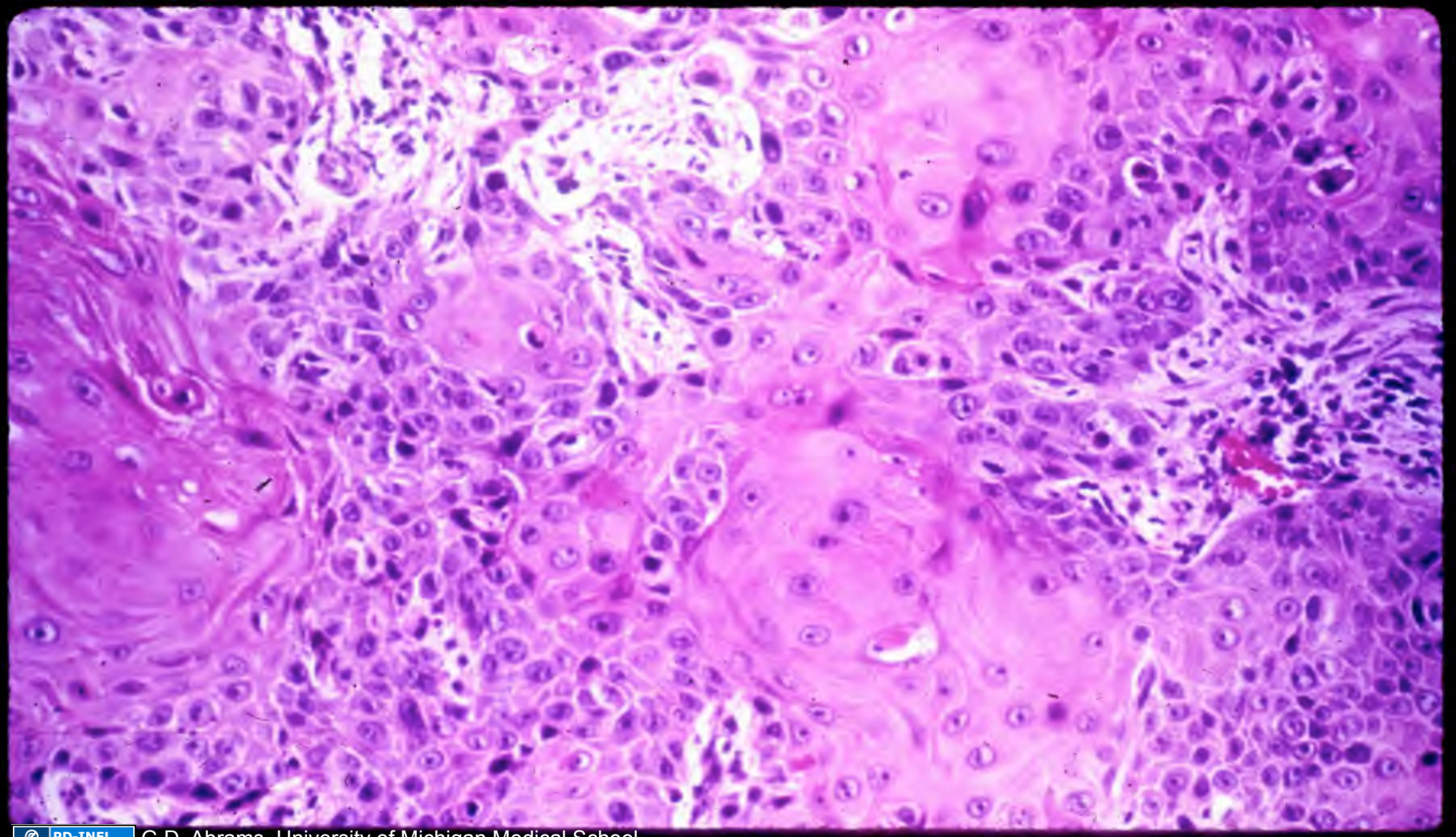
CANCER OF THE BRONCHUS ANAPLASTIC



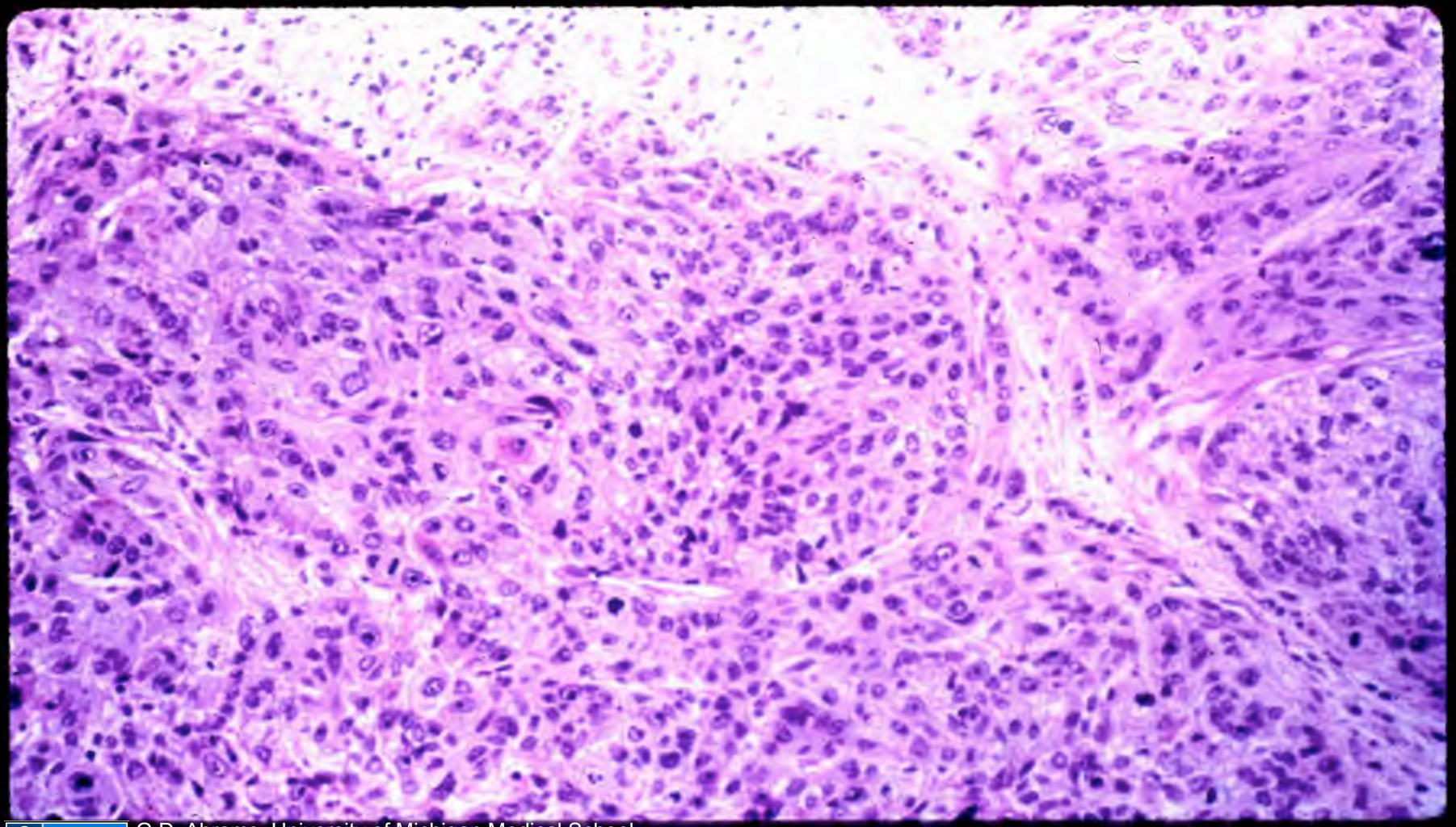
GRADING OF NEOPLASMS

- 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



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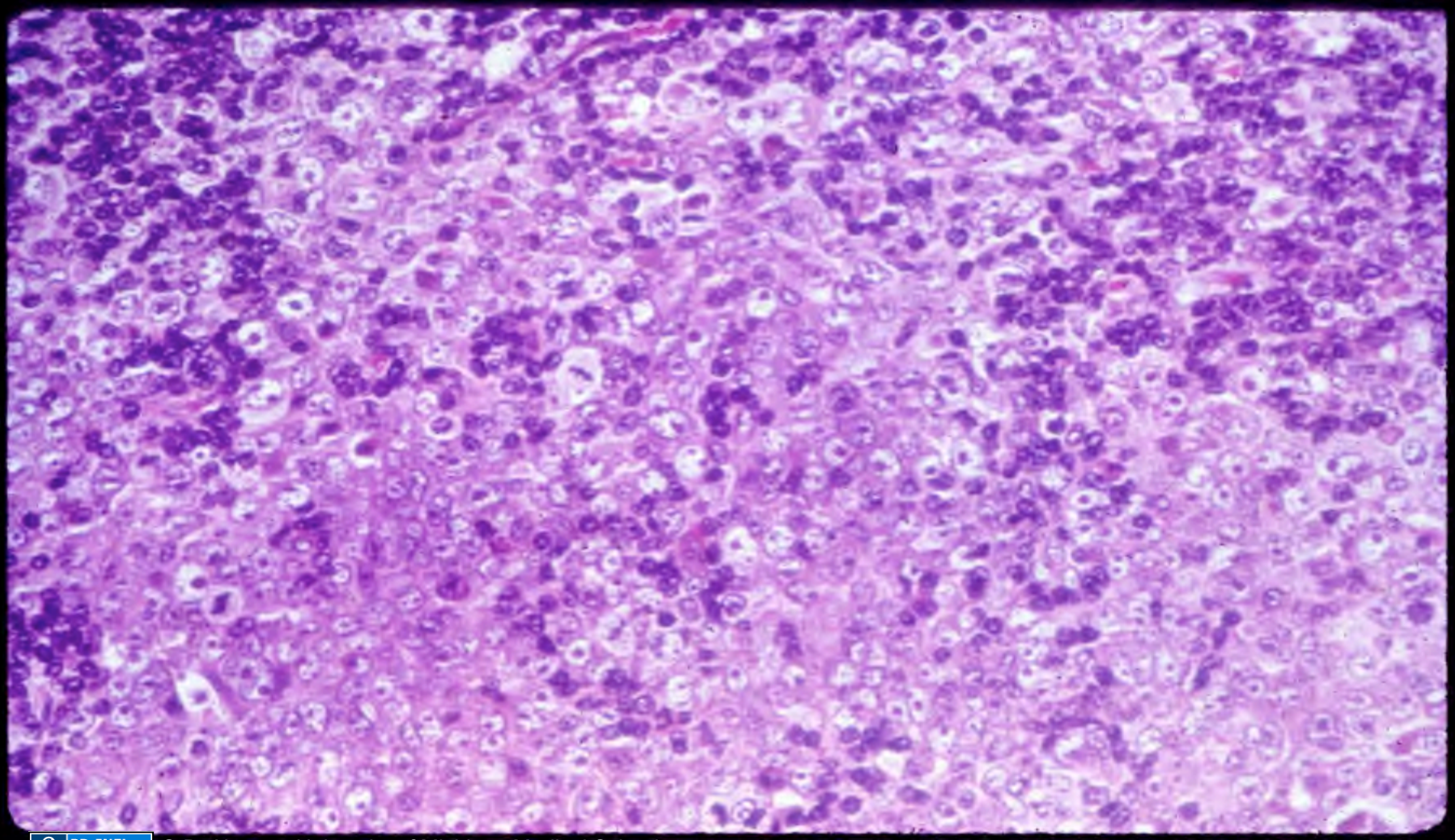
POORLY DIFFERENTIATED SQUAMOUS CELL CARCINOMA



STAGING OF NEOPLASMS

- ASSESSMENT OF THE EXTENT OF PROGRESSION OF A NEOPLASM IN THE BODY

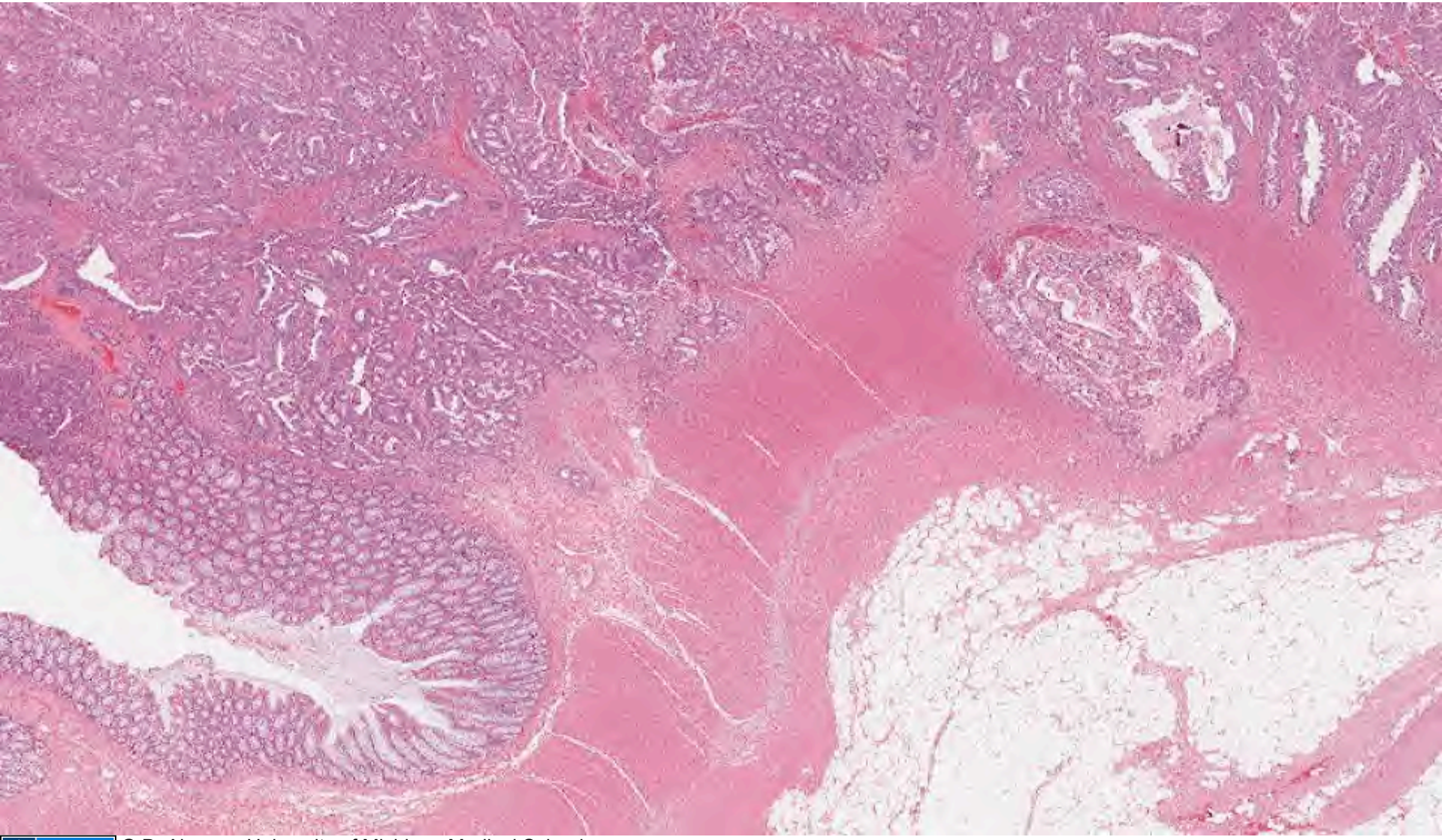
- BASED ON THE SIZE AND EXTENT OF THE PRIMARY, AND ON THE PRESENCE OR ABSENCE OF REGIONAL AND DISTANT METASTASES

HISTOPATHOLOGIC DIAGNOSIS OF NEOPLASMS

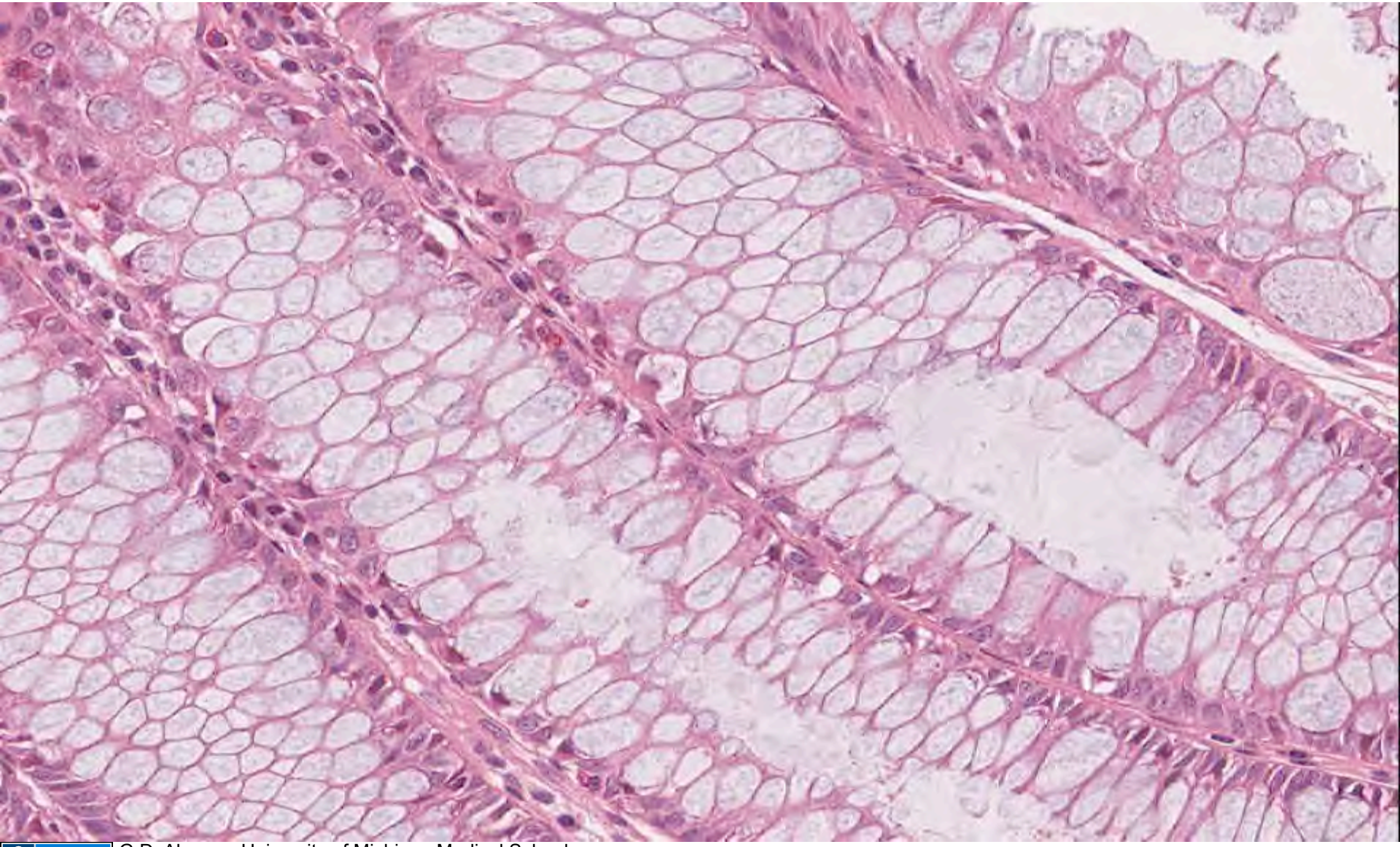
- DIAGNOSIS AS A “PREDICTION”

- EVALUATION OF:
  - -ARCHITECTURAL ARRANGEMENT
  - -RELATION OF NEOPLASTIC CELLS TO NORMAL SURROUNDINGS
  - -CYTOLOGIC FEATURES OF NEOPLASTIC CELLS

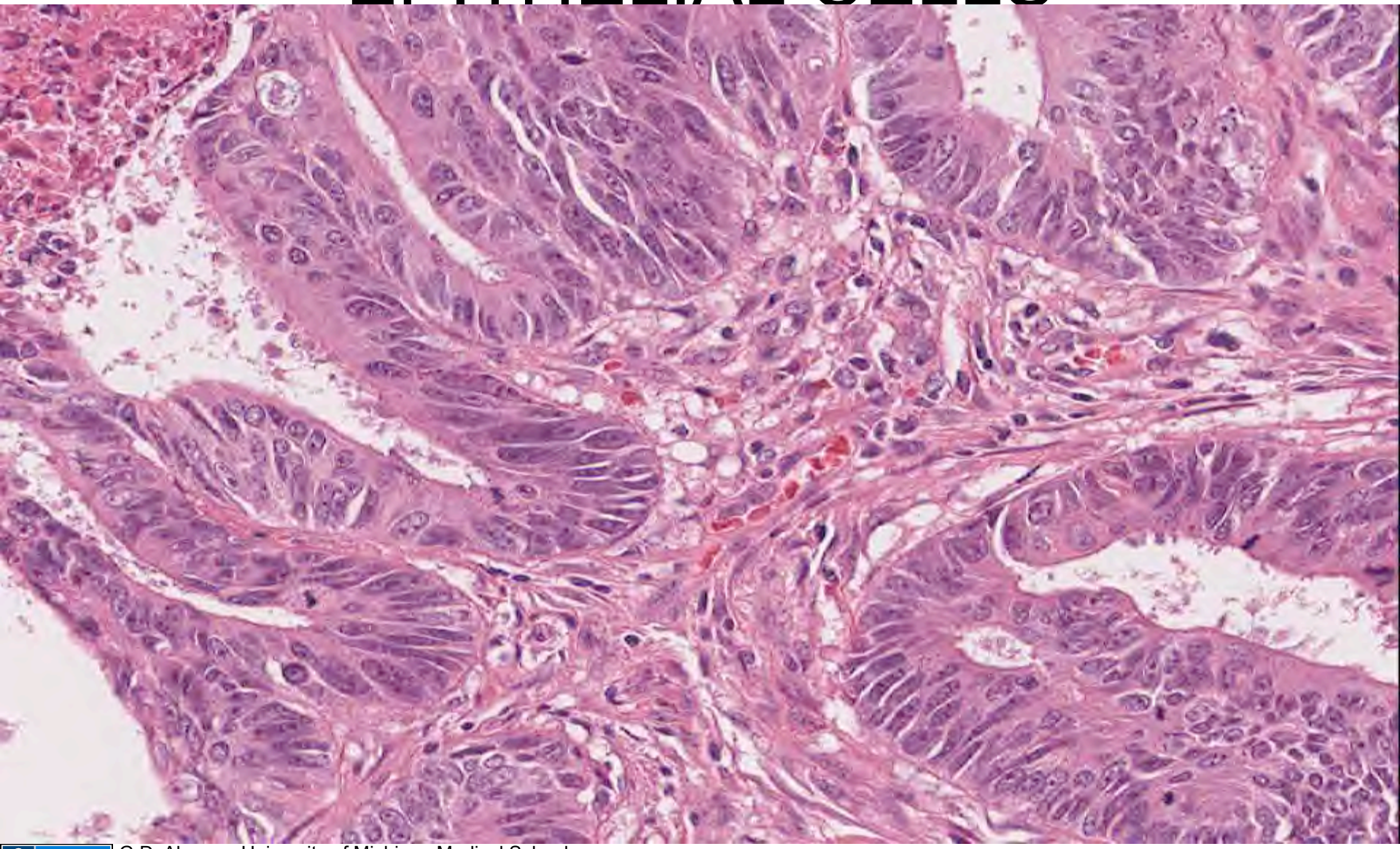
INVASION



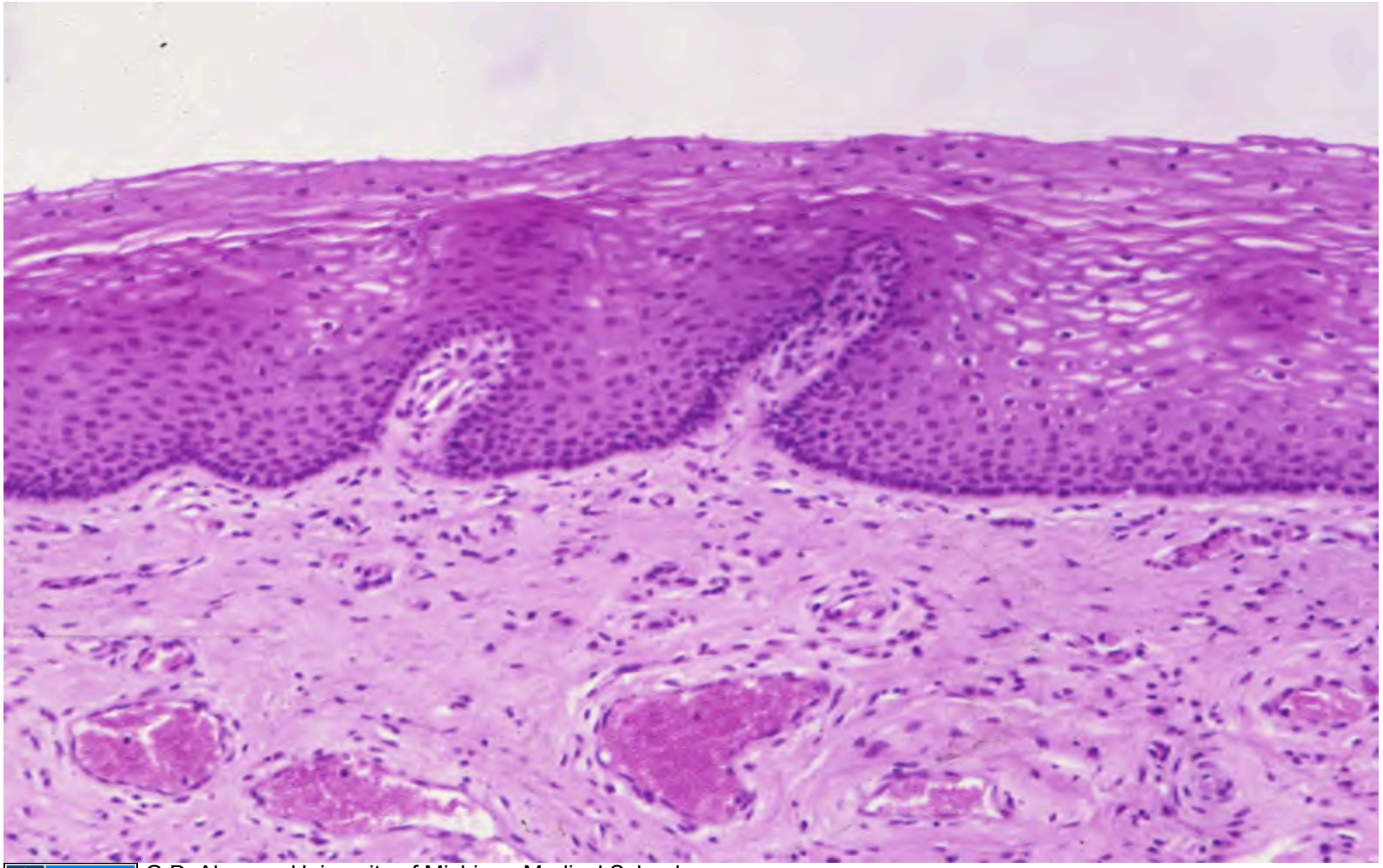
NORMAL COLONIC EPITHELIAL CELLS



NEOPLASTIC COLONIC EPITHELIAL CELLS



NORMAL SQUAMOUS EPITHELIUM



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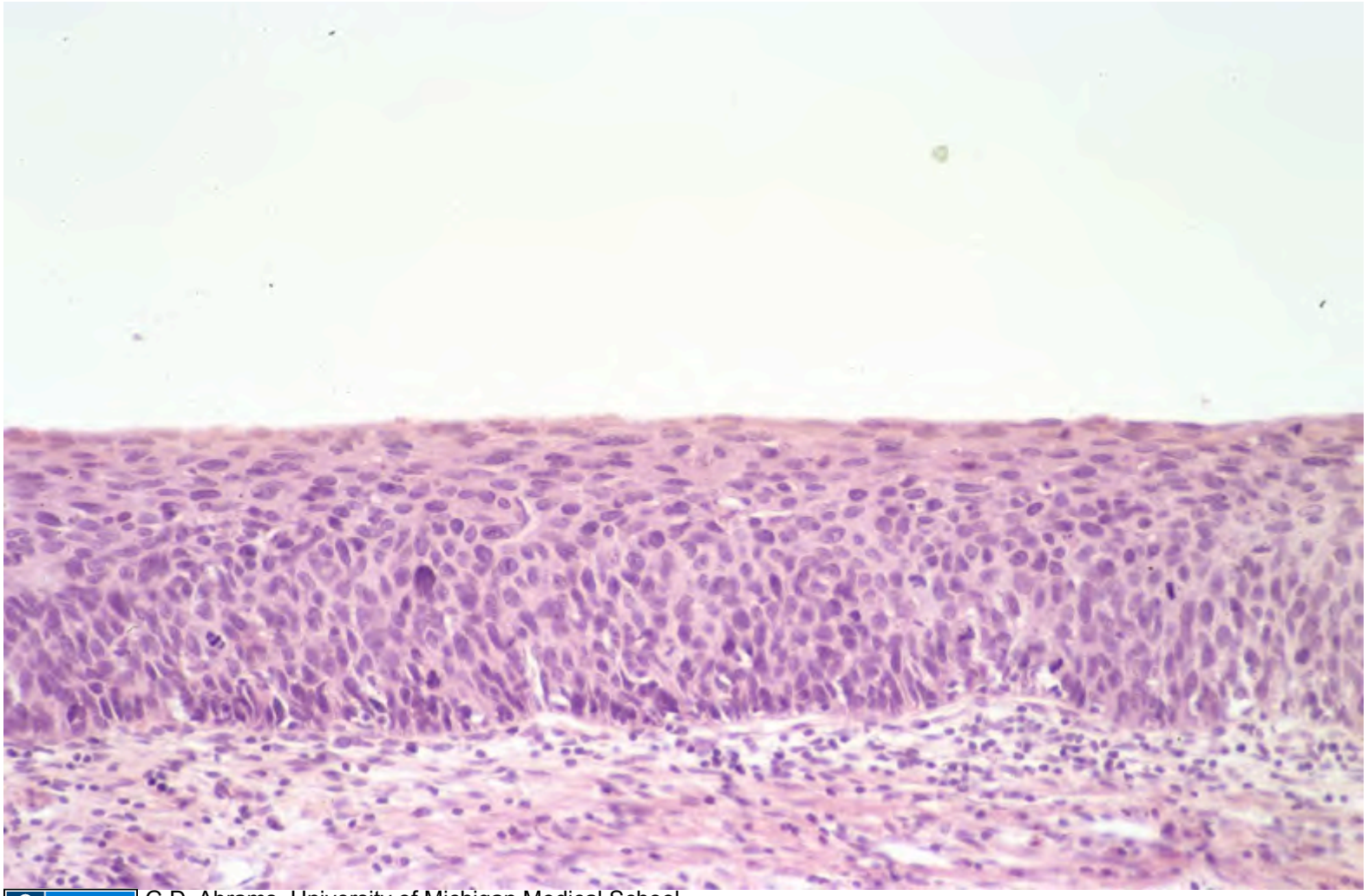
DYSPLASTIC SQUAMOUS EPITHELIUM



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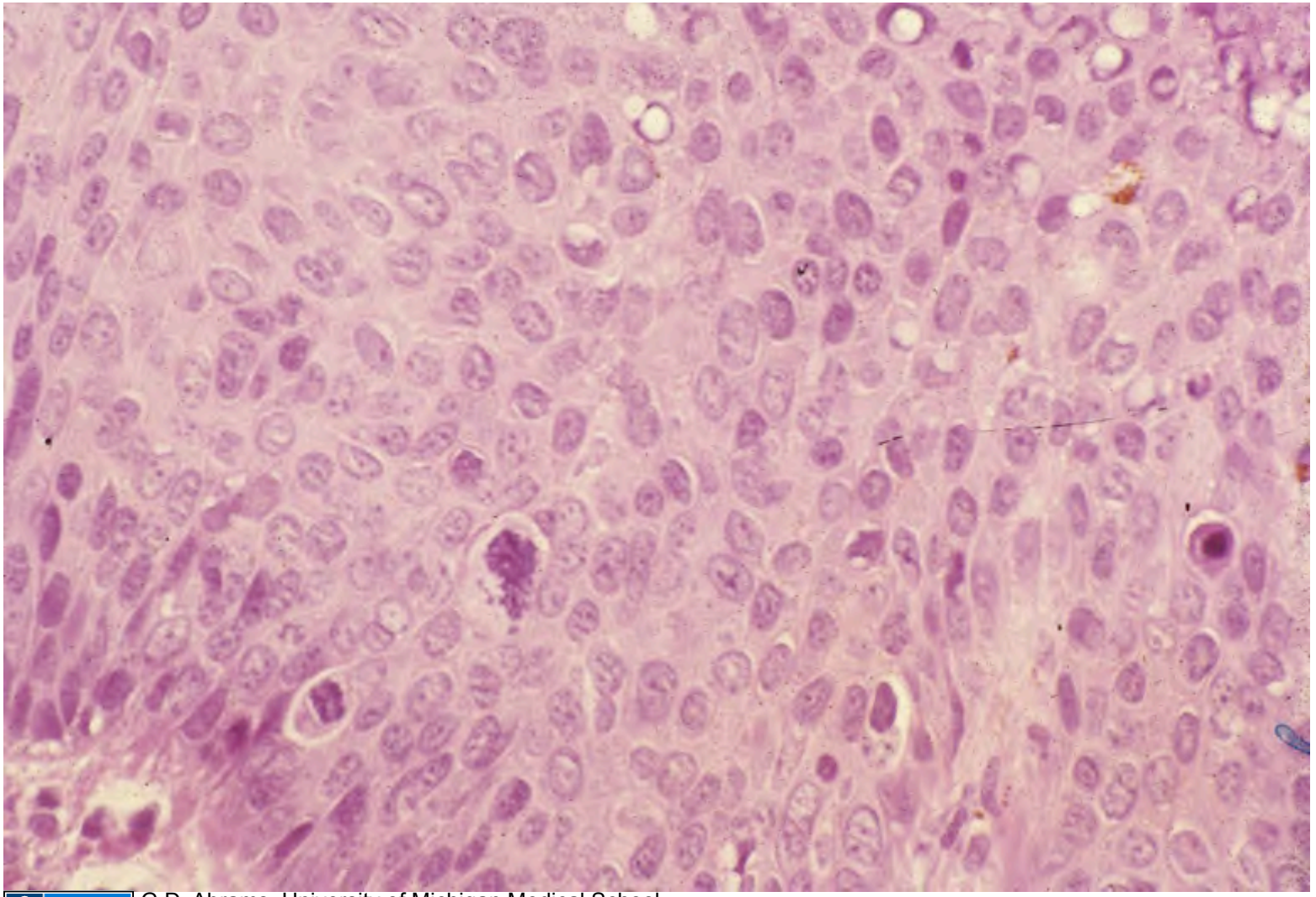
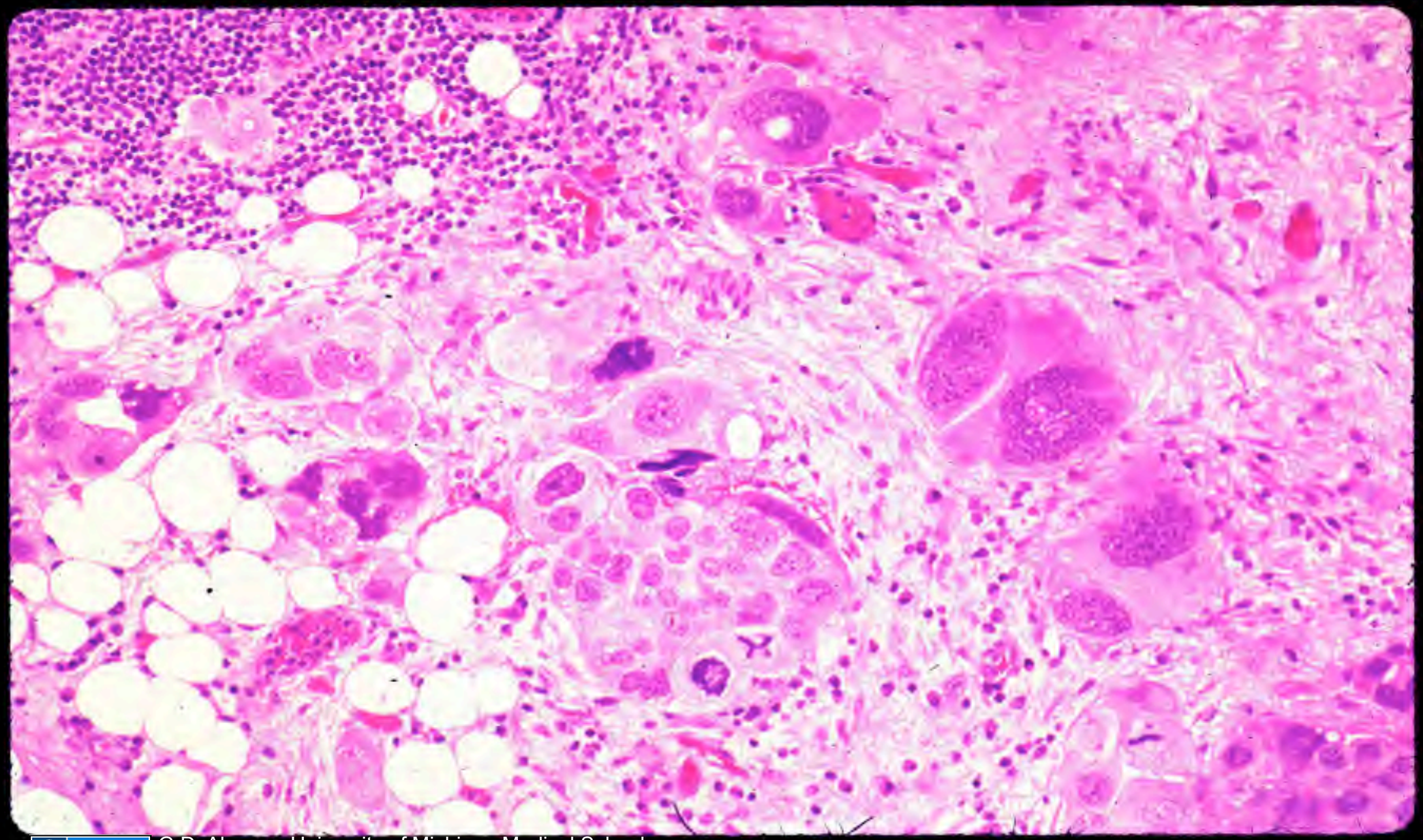
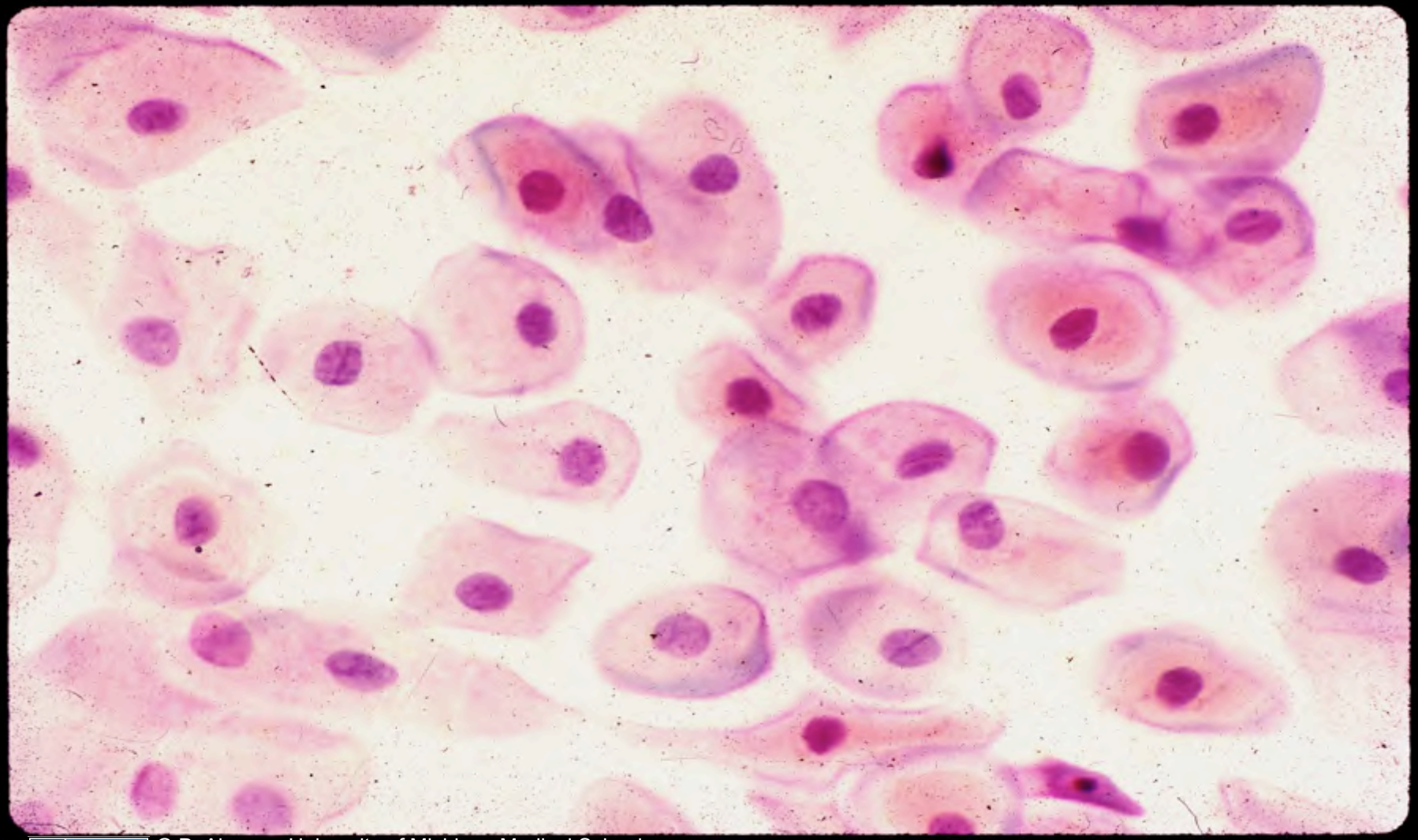
CARCINOMA IN SITU



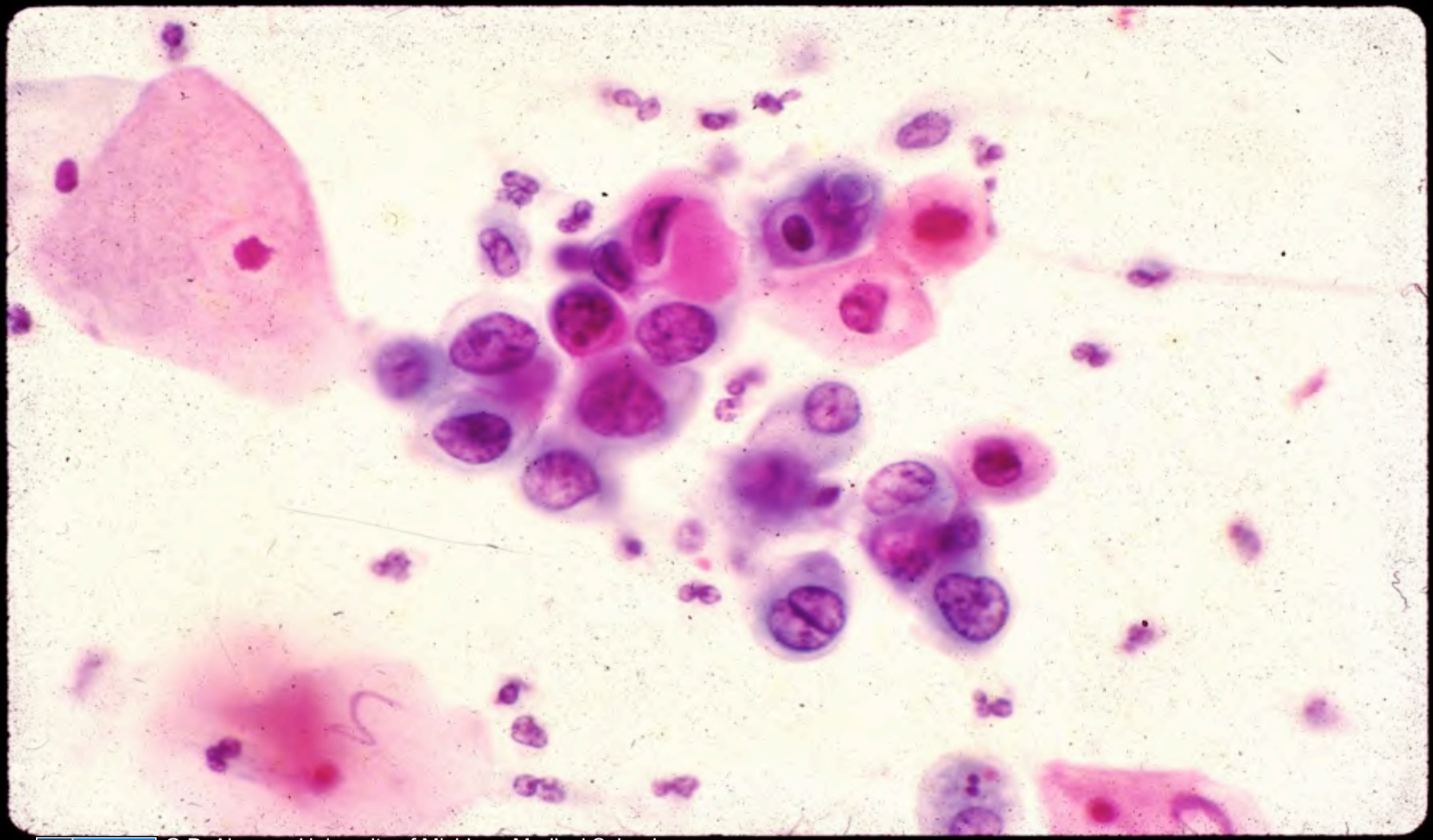
CELLULAR FEATURES OF ANAPLASIA



PAP SMEAR
NORMAL CELLS



PAP SMEAR
MALIGNANT CELLS



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Slide 10: G.D. Abrams, University of Michigan Medical School
Slide 12: G.D. Abrams, University of Michigan Medical School
Slide 13: G.D. Abrams, University of Michigan Medical School
Slide 14: G.D. Abrams, University of Michigan Medical School
Slide 17: G.D. Abrams, University of Michigan Medical School
Slide 18: G.D. Abrams, University of Michigan Medical School
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