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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”

G.D. Abrams, University of Michigan Medical School
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
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
NORMAL COLONIC EPITHELIAL CELLS
NORMAL SQUAMOUS EPITHELIUM
DYSPLASTIC SQUAMOUS EPITHELIUM
CARCINOMA IN SITU
CELLULAR FEATURES OF ANAPLASIA
PAP SMEAR
MALIGNANT CELLS
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