

Marie Curie Training Courses

Summer School 2008 – Gastrointestinal UA1

Histopath
UA1

UA 1. Histopathology slide, Dog.

Tissue section of gastric antrum. Eroded mucosa with massive proliferation of neoplastic glandular epithelium, infiltrating diffusely through and markedly widening the stomach wall. Marked fibrous stroma, many lymph vessels filled with tumor cell emboli. Diffuse sheets of tumor cells with cytoplasm distended by large vacuoles, filled with greyish material or empty-appearing (signet ring-cells), predominate. Tubulopapillary pattern and pleomorphic neoplastic cysts with mucin-like material occur mainly in deeper areas of the wall. Tumor cell nuclei generally vesicular, nucleoli often prominent, marked cellular atypia, moderate mitotic activity with mitotic atypia. Frequent tumor cell emboli in dilated lymph vessels.

(PAS-Alcian blue stain confirms intracellular and extracellular acid and neutral mucins.)

	Points
Style	2
Tissue identification (stomach)	1
Erosions	1
Neoplastic epithelium	1
Vacuolated cells (signet ring-cells)	2
Tubulopapillary and cystic patterns	2
Atypia	1
Moderate mitotic activity	1
Fibrous stroma	2
Invasion of lymph vessels	2
Mucin deposits	2
Diagnosis: Adenocarcinoma of the stomach	3
TOTAL	20