

# ECVP/ESVP Summer School in Veterinary Pathology

Summer School 2016 – Mock Exam

## 4. Tissue from a Cat

### Pancreas

Replacing and **infiltrating** pancreatic tissue and **adjacent connective** and adipose tissue, with metastatic spread to **serosal surfaces**, is a **non-encapsulated, poorly demarcated, highly cellular** mass forming **papillary** structures, **tubules**, acini and occasional small **solid** islands. Cells are sustained by **small amounts of fibrovascular stroma** and often form **cystic dilations** filled by **eosinophilic** to amphophilic homogenous to lamellar concentrically layered **material** and occasional few **degenerated neutrophils**. Neoplastic cells are mostly **columnar** with variably **distinct cell borders** and moderate amounts of homogenous, eosinophilic to **amphophilic cytoplasm**. **Nuclei** are round to oval with finely to coarsely stippled chromatin and mostly one distinct **nucleolus**. **Mitoses** are rare (<1/10HPF, 400x). Multifocally within the tumor stroma are high numbers of **macrophages** containing abundant erythrocytes or golden-brown, globular pigment (**erythrophagocytosis, hemosiderosis**) and few to moderate aggregated to loosely scattered **lymphocytes** and plasma cells. In few areas acute **hemorrhage** is present.

### Morphologic diagnosis / diagnoses

**Pancreas: Exocrine Adenocarcinoma (2 pts), tubular / ductal (1 pt).**

### Marks

Pancreas .....	1
Invasion of peripancreatic connective tissue .....	1
Metastatic spread to serosal surfaces .....	1
Non-encapsulated neoplasm .....	1
Highly cellular neoplasm .....	1
Sparse stroma .....	1
Tubules .....	1
Eosinophilic material within lumens .....	1
Neoplastic cells	
Columnar shape .....	1
Distinct cell borders .....	1
Round nucleus with coarse chromatin .....	1
Nucleolus .....	1
Mitotic index .....	1
Macrophages: erythrophagocytosis or hemosiderosis .....	1
Lymphocytes or plasma cells .....	1
Morphologic diagnosis .....	3
Design .....	2