



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2007 – Cytology Case 7

Case #7 – C1348/06

DOG

Skin mass (scraping)

Cytologic description

Moderately cellular sample, well preserved with blood contamination and some naked nuclei. There is a mixed population of cells with large prevalence (>95%) of variably sized, tridimensional, loosely cohesive clusters of neoplastic cuboidal to columnar, medium-sized (15-25 μ) epithelial cells with indistinct margins and moderate N/C ratio. They display an occasional acinar architectural pattern. The cells have a peripheralized, round nucleus with coarsely granular chromatin and small indistinct nucleoli. Some nuclear molding is evident. Mitotic figures are rare. The cytoplasm is finely granular, light blue, occasionally with small, multiple, fine purple granules. Mild anisocytosis and anisokaryosis. There are also some macrophages, foamy or with phagocytosis of erythrocytes or blue hemosiderin granules (acute and chronic hemorrhage).

Score

Style	(2 points)
Moderate cellularity	(1 point)
Blood contamination and naked nuclei	(1 point)
Prevalence of epithelial cells	(1 point)
Size and shape of epithelial cells	(1 point)
Acinar pattern	(1 point)
N/C ratio	(1 point)
Nuclear features	(2 points)
Nuclear molding	(1 point)
Mitosis	(1 point)
Cytoplasmic features	(2 point)
Anisocytosis/Anisokaryosis	(1 point)
Macrophages	(1 point)
Hemorrhage (acute and chronic)	(1 point)

MD

Adenocarcinoma of the anal sac apocrine gland	(3 points)
---	------------
