



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2007 – Cytology Case 6

Case #6 – C920/04

DOG

Spleen (scraping)

Cytologic description

Good cellular sample, not well preserved with many naked nuclei and a purple, granular to fibrillar background. There is a mixed population of cells with large prevalence (>90%) of clusters of highly cohesive epithelial cells with indistinct margins. Most of the cells are round, 15-20 μ in size, with very high N/C ratio. The nucleus is round, centrally located with granular chromatin and without evident nucleoli. The cytoplasm is scant and basophilic. Some cells are larger (15-40 μ), round to polygonal, with distinct margins, low N/C ratio. They have a paracentral, oval, with irregular margins and no evident nucleoli. The cytoplasm is abundant and foamy (sebaceous differentiation). Mitotic figures are rare. Mild to moderate anisocytosis anisokaryosis. Some erythrocytes, fibroblasts and lymphocytes are present.

Score

Style	(2 points)
High cellularity	(1 point)
Naked nuclei	(1 point)
Prevalence of epithelial cells	(1 points)
Shape and size	(1 point)
N/C ratio	(1 point)
Nuclear features	(2 points)
Cytoplasmic features	(1 point)
Larger cells (sebaceous differentiation)	(3 points)
Mitosis	(1 point)
Anisocytosis/anisokaryosis	(1 point)
Erythrocytes, fibroblasts, lymphocytes	(1 point)

MD

Metastatic sebaceous carcinoma	(4 points)
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