



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2007 – Cytology Case 5

Case #5 – C510/05

DOG

Oral cavity mass (scraping)

Cytologic description

Well preserved, moderately cellular sample with slight blood contamination and characterized by a mixed population of cells with large prevalence (>95%) of variably sized (10-40 μ), round cells. They have distinct margins and low to high (usually moderate) N/C ratio. The nuclei are round, paracentrally to peripherally placed, with a fine to coarse granular chromatin. Nucleoli are indistinct. Multinucleated cells are common. Mitosis (atypical) are rare to absent. The cytoplasm, sometimes scarce, is usually moderate to abundant, finely granular and basophilic. Rarely, the cytoplasmic margin as an eosinophilic and omogeneous appearance ("flame cells"). Moderate anisocytosis and anisokaryosis. Occasional foamy macrophages with phagocytosis of blue-green pigment (hemosiderin) are present. Rare lymphocytes and neutrophils.

Score

Style	(2 points)
Moderate cellularity	(1 point)
Prevalence of round cells	(1 point)
Size of cells	(1 point)
N/C ratio	(1 point)
Nuclear features	(3 points)
Multinucleated cells	(1 point)
Mitosis	(1 point)
Cytoplasmic features	(2 points)
Flame cells	(1 point)
Macrophages with hemosiderin	(2 points)
Lymphocytes and neutrophils	(1 point)

MD

Extramedullary plasmacytoma - round cell tumor (1 point)	(3 points)
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