



ECVP/ESVP Summer School in Veterinary Pathology

Summer School 2012 – Cytology

H03---1358

Dog, Jack Russel Terrier, male, 4 y
Skin: Nodule on the ear

Description

Smears are often poorly cellular. Cells are embedded in eosinophilic homogeneous material (proteinaceous fluid) with numerous small empty vacuoles (lipid). Many naked nuclei (ruptured cells) and numerous nuclear strands (ruptured nuclei) are visible. There is a monomorphic population of individualized round cells (up to 17 µm) with a moderate amount of lightly bluish, homogeneous cytoplasm with occasional small vacuoles and with distinct cell borders (interpreted as histiocytic cells). Nuclei (up to 12 µm) are round. The chromatin is finely reticular and nucleoli are indistinct. No mitotic figures (or few) are present and there is only minimal anisocytosis and anisokaryosis. The background population consists of few erythrocytes, small lymphocytes and neutrophils.

Diagnosis

Canine cutaneous histiocytoma

Score

Design	2
Cellularity	1
Round cells	2
Individualized	1
Histiocytic	1
Cytoplasmic features	1
Nuclear features	3
Mitotic figures	1
Background population, proteinaceous fluid, lipid	4
Diagnosis	4