

**ASSESSMENT OF CLINICAL PARAMETERS, SYNOVIAL FLUID
AND HAEMOGRAM OF GOATS WITH SIGNS OF CAPRINE
ARTHRITIS ENCEPHALITIS VIRAL (CAEV)**

P.R. PINHEIRO, J. SANTA ROSA, C.E.S. VIDAL and V. MOOJEN

EMBRAPA-CNPC, CP. 10, 62100, SOBRAL-CE, Brazil

Blood values and synovial fluid were assessed in CAEV-positive, Brown Alpine (14), Saanen (3) and Anglo-Nubian (2) goats. Body temperature, heart rates, respiratory rates and ruminal movements ranged with normal value to goats. A hypertrophy of pre-scapular lymphnodes in 91% goats was observed. Blood values showed the following average and standard error: erythrocytes ($10 \pm 0.89 \times 10^6/\text{mm}^3$); PCV ($22.2 \pm 1.5\%$); haemoglobin ($6.8 \pm 0.5 \text{ g/dl}$); leukocytes ($7,200 \pm 1,000/\text{mm}^3$); neutrophil bands ($148.4 \pm 34.3/\text{mm}^3$); neutrophils ($3,163.7 \pm 857.4/\text{mm}^3$); eosinophils ($259.6 \pm 97.2/\text{mm}^3$); basophils ($1.7 \pm 1.7/\text{mm}^3$); lymphocytes ($3,995 \pm 345.3/\text{mm}^3$) and monocytes ($293.6 \pm 72.7/\text{mm}^3$). Relatively low erythrocyte count components values are justified by parasitic infection with *Haemonchus contortus*. Carpal-metacarpal joints were the most affected ones (100%). These joints were swelled, and carpal and metacarpal circumference values showed $8.09 \pm 0.2 \text{ cm}$ average differences. Synovial fluid in these joints had a 1.022 ± 0.001 density, $3.21 \pm 0.18 \text{ g/dl}$ total protein, $3,995 \pm 879.1/\text{mm}^3$ leukocytes and $25,695 \pm 15,012/\text{mm}^3$ erythrocytes. Erythrocyte and leukocyte values were high. They showed 90% of mononuclear cells.

Key words : Disease, CAEV