HEMOLEUCOGRAM CHANGES ON CALVES WITH NEONATAL DIARRHEA TREATED WITH PROPOLIS TINCTURE, MINT AND BILBERRY EXTRACTS

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SUMMARY

Because of increased morbidity and mortality, the neonatal diarrhea syndrome represents one of the main problems with economical lasts found in youth bovine breeding. Ecological farms are starting to develop in Romania and the use of antibiotics and chemioterapics will soon be restricted.

In this study we tried to replace the classical therapy with fitotherapy, in the classical treatment of neonatal diarrhea syndrome on calves.

The calves taken into study presented variable intensity of diarrhea discharges. The treatment was made for six days, twice daily with 5 ml of plant extracts (3). The blood samples were taken before, during and after treatment and the results were presented as medium values.

Following fluids lost by diarrhea and hemoconcentration, hemoglobin value was 11.63 mg/dl. After three days of treatment the value decreased at 10.3 mg/dl, respectively after six days at 10.1 mg/dl, these values being between physiological limits. The evolution of hematocrit is directly correlated with hemoglobin and erythrocytes number. At the beginning of the study hematocrit was 55.4% and at the end of treatment 38.1% that is between normal limits (1, 2).

The variation of leukocyte formula is in concordance with the literature, a slightly increase in lymphocytes number being noticed at the beginning of the treatment. Concerning monocytes, basophiles and eosinophiles their values were between, physiological limits.

In conclusion, these plant extracts have shown efficiency in 85 % of the cases from this study. Because these natural products do not contain any antibiotic or chemiotherapic residues, the ecological farms have a real interest for them. Also, these products have a long period of preservation.