## IMPACT OF GLUCOROTICOIDS AND NONSTEROIDICALANTIIFLAMATORY DRUGS ON MILK YIELD, COW ACTIVITY, GLUCOSE AND BETA-HYDROXYBUTYRATE CONCENTRATION IN BLOOD AFTER OMENTOPEXY

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**Summary.** The aim of this study was to determinate impact of glucoroticoids (SAID) and nonsteroidical antiiflamatory (NSAID) drugs on milk yield, cow activity, glucose and beta-hydroxybutyrate concentration in blood after omentopexy. For this research, 62 multiparous cows were selected. The left displaced abomasum was diagnosed during the clinical trial. All the cows with left displaced abomasum had surgical treatment according to a right paralumbar fossa omentopexy. According to the additional treatment plan, the cows were divided into three groups: The first group (SAID) of cows were injected with glucocorticoids after surgery DEXAJECT<sup>TM</sup>, (2 mg per mL, Bimeda-MTC Animal Health Inc., Cambridge, ON Canada), with one 20 mg dose, intravenously), n=21. The second group (NSAID1) of cows were injected NSAID with Rimadyl Cattle (carprofen 50 mg/ml) after surgery. This was an intravenous injection at a dosage of 1.4 mg carprofen per kg body weight (1 ml/35 kg), n=21. The third group (NSAID2) of cows were injected NSAID with a single intravenous injection of Loxicom 20mg/ml after surgery at a dosage of 0.5 mg meloxicam/kg body weight (i.e., 2.5 ml/100kg body weight), n=20. For the purpose of biochemical testing, blood samples were collected from v. coccigea right before the surgery (Day 0), and three days (Day 7), fourteen days (Day 14), and twenty-one days (Day 21) after the surgery. According results, SAID injection after an omentopexy increases the glucose level, decreases the beta-hydroxybutyrate, evel in blood, and the milk yield NSAID injection has a positive effect on the milk yield and cow activity. According this conclusion after omentopexy is better to use NSAID.

Keywords: cow, left displaced abomasum, omentopexy, beta-hydroxybutyrate