



¹Krasnoyarsk Research Institute of Animal Husbandry of the Federal Research Center "Krasnoyarsk Science Center" of the Siberian Branch of the Russian Academy of Sciences, ²Breeding Company "Krasnoyarskagroplem"



Comparison of three treatments for subclinical mastitis in cattle

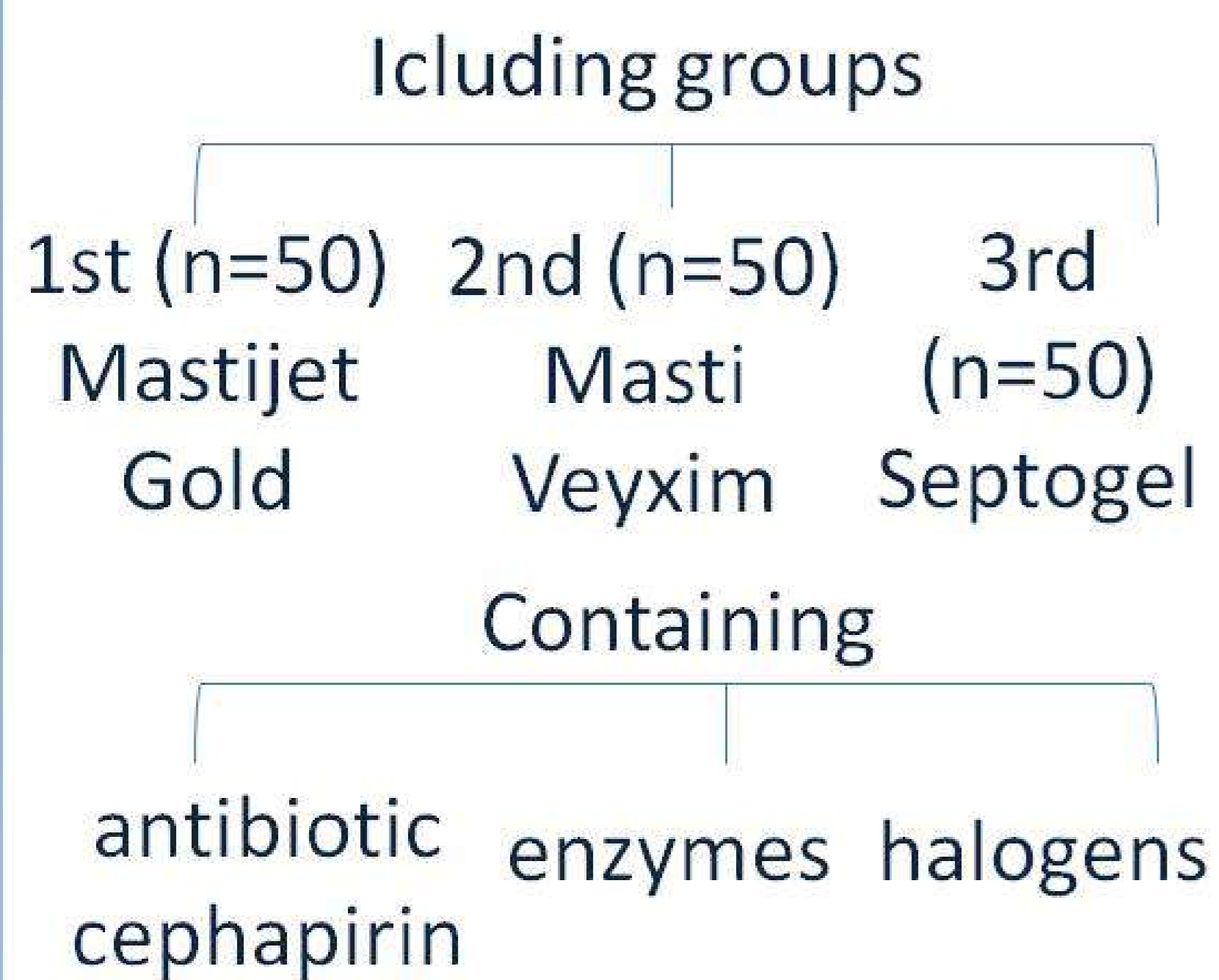
Tatyana Zaznobina¹, Andrey Makarov², Olga Ivanova¹, Lyubov Efimova¹, Evgenij Ivanov¹ and Vera Tereshchenko¹

INTRODUCTION

One of the factors that have a significant impact on the profitability of cows is mastitis. Many authors mention that mastitis increases the index of insemination, the intercalving interval, and increases costs for veterinary care of animals. In this regard, it is important to reduce the disease incidence of mastitis and, as a result, to increase the level of reproduction of the herd.

MATERIALS AND METHODS

Research location - AC Doroninskoe Novosibirsk region. Research object - Black-and-White cows suffering from a subclinical form of mastitis (1.0-5.0 million/ml SCC in milk).

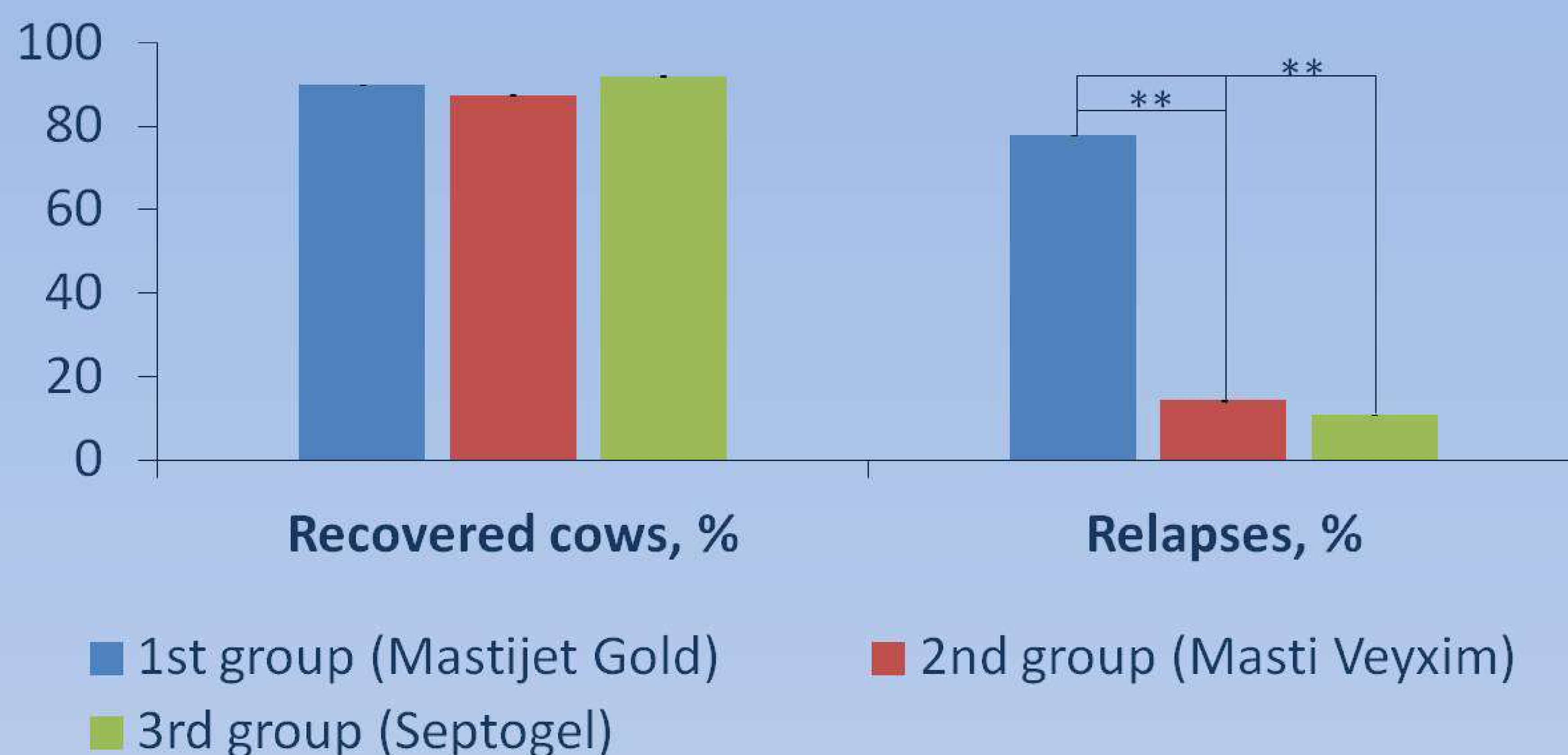


The preparations were injected into each affected quarter via the teat canal 3 times with 12 hours interval. 15 days after treatment, the clinical mammary gland examinations and SCC in milk were again performed; cows were considered healthy with <350'000 SCC/ml.

The significance level between the shares of values in groups was determined by Student's t-test.



Results comparison of three preparations for subclinical mastitis cows treatment



Indicators	1st group	2nd group	3rd group
σ	0.334	0.274	0.303
md	0.047	0.039	0.043
Compared groups	1st vs 2nd	1st vs 3rd	2nd vs 3rd
Differences	0.025	-0.020	-0.045
td	0.39	0.35	0.74

RESULTS

There was found highest share (92.0%) of recovered cows in the 3rd group vs the 1st (90.0%) and the 2nd groups (87.0%), least relapses of the disease in 2nd and 3rd (11.0 and 14.3%) vs 1st group (77.8%). The differences by relapses between 1st and 3rd, 1st and 2nd groups were 66% and 64% ($p < 0.001$).



Cenotest



Treatment

CONCLUSION

Thus, for reducing the number of relapses, the most effective drugs to use are Septogel and Masti Veyxim.