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STUDY REGARDING EFFECT OF TRISS-BASED AND CANIPLUS EXTENDERS ON SEVERAL SPERM PARAMETERS IN MEDIUM-LARGE BREED OF DOGS

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Abstract

The study was carried out in different breeds of dogs owned by breeders in the city of Cluj Napoca. Mostly medium-large breeds were used and all the participating animals have been in good health during the time of acquiring the samples. The purpose of the study was to make a comparison between our own Tris-based extender and the commercial extender CANIPLUS CHILL in accordance with semen parameters with particular regards to motility, progressive motility, and length of survival of the spermatozoa. The evaluation has been done using the Computer Aided Sperm Analysis (CASA) system at the Faculty of Veterinary Medicine of Cluj-Napoca.

We have found that in medium large size breeds the commercia CaniPlus extender have shown better results on the majority of the parameters over the Tris-based extender and has the ability to preserve the integrity is spermatozoa more efficiently over time compared to Tris extender. Furthermore we identified an improvement in all parameters when comparing samples on the day of collection between large breed dogs and medium-large breed dogs in both extender types.

Additionally, we had results shown increase values of most parameter in tris extender when comparing it with CaniPlus extender in medium-large size breeds on the day of collection.

Key words: Semen Extender, canine, Artificial Insemination, CASA, CANIPLUS CHILL, TRIS