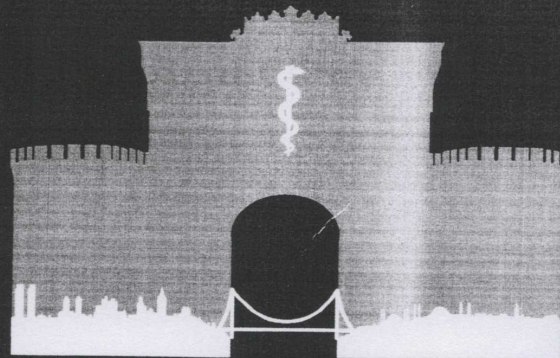


**3rd INTERNATIONAL
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BOOK OF ABSTRACTS



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EFFECT OF CHOLESTEROL LOADED CYCLODEXTRIN ON SEMEN CRYOPRESERVATION OF AKSARAY MALAKLI SHEPHERD DOG (TURKISH MASTIFF)

Olgac K.T.¹, Tekin K.¹, Inanc M.E.¹, Yilmaz B.¹, Ozen D.², Tuncer P.B.³, Tasdemir U.³, Buyukleblebici S.¹, Uysal O.^{1*}

The objective of the study was to determine the effect of CLC and age on post thawed semen quality parameters in Aksaray Shepherd dog breed (Turkish Mastiff).

Twenty dogs, from two different age (≤ 3 , group 1 (n.10); 4-6 group 2 (n.8)), were used in this study. Samples were collected with digital manipulation, and each ejaculate was divided into four equal aliquots and extended with a tris base extender containing 0,5 mg; 1,0 mg; 1,5 mg/120x10⁶ CLC and control (0 mg). Than ejaculate specimens were equilibrated (+5 °C/1,5 h) and loaded into 0.25 french straw, frozen in liquid nitrogen vapor (-120 °C/15 minutes) and stored in liquid nitrogen (-196 °C). Frozen straws were thawed in water bath (37 °C/30 seconds) and percentages of progressive motility, total motility and kinetic parameters (VCL, VSL, VAP, LIN, STR, WOB, ALH, BCF and hyperactivity) and abnormal spermatozoa rate (head, neck, tail and total abnormal spermatozoa rate) were assessed with computer assisted sperm analyzer (CASA, SCA Microoptics, Barcelona).

In frozen thawed samples, there were no significant differences between different CLC levels on progressive motility, total motility and motility kinetic parameters ($p>0,05$). Differences were statistically significant on progressive motility, total motility and kinetic parameters between age groups ($p<0,05$). According to results, group one had a higher motility and kinetic parameters than group two. Likewise, there were no significant differences between both groups and CLC levels on abnormal spermatozoa rate. There were higher morphologically normal spermatozoa but with no significant differences spermatozoa in semen of age ≤ 3 years males in comparison with older males. Although CLC has increase motility and kinetic parameters compared with control (0 mg), these differences were not statistically significant.

In conclusion, cholesterol may be a powerful preservation agent to increase the ability of dog spermatozoa to survive freezing and thawing. The efficiency of semen cryopreservation programs can be further enhanced by using sperm collected from 3-yr-old malaklı dogs, which has a better ability to tolerate cryopreservation than 4-6-yr-old counterparts.

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