Proceedings of the 8th International Symposium on Canine and Feline Reproduction

ISCFR

June 22-25, 2016
Paris, France

In a joint meeting with the XIX EVSSAR Congress

Reprinted in IVIS with the permission of the ISCFR Organizers
Semen evaluation in fertile bulldogs
a School of Veterinary Medicine - Paulista University (UNIP) – Sao Paulo – SP –Brazil, b Veterinary Clinicians
silviacrusco@terra.com.br

Introduction. Breeding soundness evaluation in males includes clinical and reproductive tract examination and semen evaluation. Semen evaluation is one of the most parameters to analyze the reproductive status in dogs. 1 Semen analysis is of great value in the initial investigation of the male and its results are often taken as a surrogate measure of male fecundity and chances of pregnancy 2. Abnormalities in semen can reflect the fertility status in animals. Semen evaluation This study was performed in order to analyze fertile Bulldog male dog semen characteristics. Material and methods. Semen was collected by digital manipulation from male adult and fertile Bulldog (n=14) with age from 12 to 84 months, with a mean 36,21 ± 22.20. They were matured breeding dogs and already had produced litters. All of them live in kennel and received commercial food and water ad libitum. Semen was evaluated for the following parameters: volume, motility, forward velocity, cell concentration and morphology. Volume measurement was done in the collection tube. Motility and forward velocity progression were estimated with a 20ul semen droplet on a pre warmed glass slide. To obtain concentration values, semen was diluted 1:20 and spermatozoa were counted in a Neubauer chamber. Finally morphological abnormalities were visualized in a colored smear (Panótico ® Laborclin, Parana, Brazil). Measurement of testicles was done with a caliper. Results are given as average ± standard deviation. Results and discussion. Results of semen analysis were as follows: volume was 3,67 ± 1,85 ml (ranging from 1 to 6 ml) ; motility 85,0 ± 7.33 % (ranging from 70 to 90 %); forward progression velocity 3.5 ± 0.51 (grade from 0 to 5) (ranging from 3 to 5); concentration 179,28 ± 74,5 spermatozoa x 10⁶/ml (ranging from 72 to 345 spermatozoa x 10⁶/ml) ; total spermatozoa concentration 606,39 ± 366, 89 x 10⁶/ml (ranging from 91,5 to 1590 spermatozoa x 10⁶/ml) and normal cell morphology 91,82 ± 3.6 % ranging from 48 to 98 %). The broad range is in accordance with findings of others 1. All the dog population was fertile according to our data and results. There are few publications about specific dog breeds seminal parameters. Therefore, the contribution of this work was to provide guidelines for semen for bulldog dogs. We have always take in mind that seminal parameters that a normal semen analysis do not guarantee a successful culmination in fertility 2. Some dogs in this study have seminal parameters below the minimum acceptable and are producing litters.