ABSTRACTS

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Benign prostatic hyperplasia in aged dogs affects semen gross and individuality motility

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INTRODUCTION: Disorders of the prostate are fairly common in the dog with prostatomegally evident in two thirds of dogs, over five years of age. As a dog ages, spontaneous enlargement of the prostate gland occurs, which is referred to as benign prostatic hyperplasia (BPH). Despite this enlargement, the prostatic secretory capacity decreases as the hyperplasia develops. Glandular hyperplasia begins at 1-2 years of age and its prevalence peaks at 5-6 years. For breeding males, this prostatic disease can affect semen production.

OBJECTIVE AND METHODS: The objective of this study was to determine if BPH affect semen motility in dogs. Semen from 27 German Shepard dogs was collected stimulating them with an estrous bitch. Initial friction movements were performed and the penile sheath was gently pulled back behind the bulb as soon as penile erection started. Then constant pressure was maintained caudal to the bulbus, and erection and ejaculation was achieved. The first and second (sperm-rich) semen fractions were collected, but when the third fraction started to ejaculate, the collection stopped. After the procedure, ultrasonographic examinations of the prostate were performed with a B-mode ultrasound scanner connected to a 5MHz convex transducer to determine BPH. For data analyzed we separate dogs into 3 groups, A) dogs between 1,5 and 4 years (33,4 ± 2,1 kg), B) dogs between 4 and 7 years (35,3 ± 2,6 kg), and C) dogs with more than 7 years (34,8 ± 3,1 kg). For each dog and group, means and SEM of BPH, gross and individual motility were determined and was used for statistical analysis (chi square test).

RESULTS: For % of BPN dogs into each group were 7,4%, 14,8% and 77,8%; for gross motility were 84,4%, 81,4% and 57,1%; for individual motility were 76,7%, 75,0% and 48,6% for group A, B, C respectively. C group results were statistically different with other two groups (P<0.01), and group A no differ of group B (P<0.01).

CONCLUSION: Dogs with more than 7 years present BPH different with other age, and affect semen gross and individually motility.