SHORT-TERM CLINICAL OUTCOMES OF USING A NEW INTRAOCULAR LENS (IOVet®) AFTER PHACOEMULSIFICATION: A MULTICENTER STUDY

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ABSTRACT

Purpose: To clinically evaluate, in the short term, eyes of dog operated by phacoemulsification with implantation of a new intraocular lens (IOL- IOVet®) with an optical zone of (6.5mm), haptics with four legs and a 2.4mm injector. Methods: Thirty-nine eyes of dogs, with different degrees of cataract were operated by eight surgeons (five board certified and three non-board certified) in different veterinary ophthalmology centers. Each surgeon used standard surgical technique of cataract extraction by phacoemulsification to implant the IOL. All patients received gatifloxacin or moxifloxacin every 6h, prednisolone acetate 1.0% and tromethamine ketarolac every 2h in the first week postoperative with decrease in the following weeks and carbonic anhydrase inhibitors every 12h for 15 days. The evaluations were performed before surgery, at 72h, 7, 14, 21 and 30 days. Postoperatively intraocular pressure (IOP), fibrin, flare, posterior syncytial and posterior capsule opacity (OCP) grade were evaluated. The IOP was measured by using applanation tonometry. Data were treated by ANOVA followed by Tukey's and T-pare test. Results: Mature cataract was the most operated type with 61.53% (24/39). Mean IOP (mmHg) values showed significant difference between 72h (11.15±3.32), 14 (13.56±3.00), 21 (13.61±2.74) and 30 (13.15±2.37) days post-surgery. As for the variables studied, absent or mild degrees predominated and showed significant difference ($p<0.05$) when compared to moderate and severe. Severe alteration was not observed in any of the analyzed situations. Conclusion: The IOL- IOVet® implanted did not cause significant postoperative changes and minimal postoperative inflammatory reaction was observed. None.

Key-words: Cataract, dog, complication, intraocular pressure

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