EVALUATION OF PCO IN DIABETIC AND NONDIABETIC DOGS AFTER MULTIFOCAL HYDROPHILIC AND HYDROPHOBIC IOL IMPLANTS FOLLOWING ENDOPHACOEMLSIFICATION BY EPCO 2000 SOFTWARE

Madras Veterinary College, Chennai - 600 007

The cases presented over a period of 24 months from March 2013 to February 2015 to the Small Animal Ophthalmology unit of the Madras Veterinary College Teaching Hospital, Chennai, were screened for the incidence and stage of cataract. Twenty four co-operative dogs with good owner compliance were selected from the cases of cataract based on the suitability for anaesthesia. They were divided randomly into two groups (I & II) consisting of twelve dogs each and each group was again sub divided into subgroup A (nondiabetic) and subgroup B (diabetic) consisting of six dogs each. Group I was subjected to endophacoeMLSification with the implantation of multifocal hydrophilic intraocular lenses and Group II was subjected to endophacoeMLSification with the implantation of multifocal hydrophobic lenses. Posterior capsular opacification (PCO) is the most prevalent postoperative complication was recorded and PCO scores were evaluated by use of EPCO 2000 software. The mean ± SE PCO scores for the nondiabetic hydrophilic acrylic lens, diabetic hydrophilic acrylic lens, nondiabetic hydrophobic acrylic and diabetic hydrophobic acrylic lens were 0.92 ± 0.37, 1.67 ± 1.22, 0.21 ± 0.11 and 0.52 ± 0.22, respectively. The details of EPCO 2000 software, evaluation procedure will be discussed in the present paper.