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AEMV Forum

Assessment of Intraocular Pressure by Applanation and Rebound Tonometry in Guinea Pigs of Different Ages

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Abstract

Fifty-two guinea pigs (*Cavia porcellus*) with normal ophthalmic examination were included in this study to determine whether there are differences in the intraocular pressure (IOP) according to age, while assessing the clinical usefulness of two different tonometry methods for this species. The animals were divided into 2 groups according to age: young (4 weeks-old, 29 animals) and adult (3–36 months, 23 animals). Tonometry was performed *oculus utro* (OU) in the central cornea according to the manufacturer's recommendations. Only measurements with low standard deviation ($SD < 5\%$) were included. Rebound tonometry was performed first OU; following topical anesthesia, applanation tonometry was then performed OU. The time required to obtain an IOP value was recorded for each eye. Descriptive statistics were calculated and Lin Concordance Coefficient (LCC) was performed to describe concordance between methods. Mean TonoVet[®] IOP readings were 8.53 ± 1.28 mmHg and 13.20 ± 1.28 mmHg for young and adults, respectively

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