

ULTRASONOGRAPHIC EVALUATION OF ANIMAL EYE DIMENSIONS

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Abstract. Five intraocular dimensions were measured, including the distance from the anterior cornea to the lens surface, the lens thickness, the distance from the posterior lens surface to the retina, the distance from the anterior cornea to the retina and the corneal thickness. Statistical difference were found for these five intra-ocular dimensions between the eyes of pigs and bulls. Percentage relation between the axis of the eye ball and other intraocular dimensions of pigs and bulls was determined. Ultrasonic pachymetry was used to measure central, superior peripheral, temporal peripheral, inferior peripheral and nasal peripheral corneal thickness of pigs' and bulls' eyes.

Keywords: A-scan ultrasonography, ultrasonic pachymetry, ocular biometry, corneal thickness, bull, pig.