

A COMPARISON OF X-RAY MORPHOMETRICAL PARAMETERS IN ROTTWEILERS AND OTHER DOG BREEDS IN CASE OF HIP DYSPLASIA

Oskars Kozinda

Clinical Institute, Faculty of Veterinary Medicine, Latvian University of Agriculture, 8 Helmaņa St., LV 3004 Jelgava, Latvia; Phone +371 3024 665; e-mail: vmfklina@llu.lv

Summary. Investigations were carried out at the Clinical Institute of the Faculty of Veterinary Medicine of the Latvian University of Agriculture. The aim and objectives of the investigation were to determine and compare the use of some x-ray morphometrical parameters of hip dysplasia in young Rottweilers and other dog breeds. We have determined the x-ray morphometrical parameters used in diagnostics of hip dysplasia: Norberg angle (X1), inclination angle (X2), tangential angle (X3), location of geometrical centre of femoral head (X4), width of the lateral joint gap (X5), width of the medial joint gap (X6), and distraction index (X7). We have investigated agreement or differences of x-ray morphometrical parameters in Rottweilers and other breed dogs. Radiography was made at a ventrodorsal projection. The obtained data of x-ray morphometrical parameters were used for analysis. In case of hip dysplasia, differences of some parameters were established within the framework of the breeds, and differences of some x-ray morphometrical parameters between Rottweilers and other dog breeds.

Key words: hip dysplasia, breed, dog, measurements.