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PROBLEMS, PROSPECTS
AND INNOVATIONS**



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MEDICAL SCIENCES

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COMPARISON OF MORPHOMETRIC, DENSITOMETRICAL DATA IN THE EXAMINATION OF THE CERVICAL SPINE OF MAMMALS

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Abstract: Analysis of DDP on CT images and multiplanar reconstructions in humans and various groups of small domestic animals, determination of new etiopathogenetic mechanisms of intervertebral osteochondrosis development. The relevance of the Torg-Pavlov index at CT scan of the spinal cord for the objective assessment of stenosis of the structures of the spinal cord in all groups of young and middle-aged mammals, taking into account the formula $(\text{human_age} = 16 \ln(\text{dog_age}) + 31)$ [1]. Measurements of the Pavlov-Torg index on X-rays and magnetic resonance imaging of the thoracic cavity show the same result: stenosis [2]. The researchers, Danica Bannash of the University of California, Davis, and Elaine Ostrander of the National Institutes of Health, compared changes in methylation

patterns with humans, studying 104 Labrador retrievers, ranging from puppies a few weeks old to 16-year-old dogs, studying issues of age and aging. in general and individual organs and systems [3].

Key words: osteochondrosis, cervical spine, mammals.

Materials and methods: The material for the study was the detection, analysis of DDP in the cervical spine in humans (n=65) and animals (n=75), comparative characteristics, by the CT examination method. A detailed study of the most frequent DDP pathologies, namely the level of C5-C7 bodies (vertebrae cervicales). To analyze the morphometric data of the vertebral bodies (Sag-sagittal size) in relation to the diameter of the spinal canal (Sag canalis spinalis), patients of the age range: men from 29 to 65 years old, women from 20 to 65 years old were included. Morphometric data according to the gender principle of people and groups of domestic animals: sagittal diameters of C3 and C5-C7 bodies, sagittal size of the spinal canal is shown in tab. 1.

Table 1

Sagittal diameters of vertebrae and spinal canal in humans and mammals

	men n=25	women n=25	dogs > 10 kg n=19	dogs < 10 kg n=42
Sag diameter C3	15,8±0,6	13,8±0,4	13,7±0,8	7,3±1,3
Sag diameter C5-C7	17,8±0,8	14,9±0,5	14,5±0,9	8±1,3
Sag diameter SK	9,7±0,9	10,2±0,5	9±0,7	6,7±0,6
Stenosis SK	21 (84%)	28 (70%)	15 (78,9%)	6 (14,3%)

Conclusion: - CT examination of the SVC in humans and domestic animals is an objective and highly informative method and allows for differential diagnosis in the correction of neurological deficits in humans and small domestic animals.

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