

MORPHOLOGY OF HEART AND SOME PARAMETERS OF BODIES OF THE BLACK SCOTER (*MELANITTA NIGRA LINNAEUS, 1758*)

Bartłomiej J. Bartyzel^{1*}, Maciej Karbowicz¹, Małgorzata Dierżęcka¹, Izabela Bartyzel²,
Jarosław Wysocki³, Linas Daugora⁴

¹*Department of Morphological Sciences, Warsaw Agricultural University, Faculty of Veterinary Medicine, Warsaw, Poland*

²*Solec Medical Hospital, Medical University of Warsaw, II Medical Department, II Clinic of Internal Diseases and Cardiology, Warsaw, Poland*

³*Department of Biology, Agricultural Faculty, Academy of Podlasie, Siedlce, Poland*

⁴*Department of Anatomy and Physiology, Faculty of Veterinary Medicine, Kaunas, Lithuania*

*Correspondence to: Bartłomiej J. Bartyzel, Department of Morphological Sciences, Faculty of Veterinary Medicine, Warsaw Agricultural University, ul. Nowoursynowska 159, 02-776 Warszawa, Poland, Tel./Fax: +4822 5936204, e-mail: bartyzel@alpha.sggw.waw.pl

Summary. Comprehension on the subject of heart structure remains imperfect in relation to many bird species. Adjustment of cardio-vascular system for definite models of bird's lives i.e. for plunge is mostly attractive. Description of chosen anatomical parameter of body was the main intention of the research at the Black scoter *Melanitta nigra*, with scrupulous deliberation of heart structure as well as its size. Determination of executive measurements of heart parameters as well as their relative value performed on 30 adult persons of this sort of bird (16 males and 14 females). Animals earned from fishing net, they bogged to which during feeding and they died most often. Material gained from fishing bases of Polish coasts of Baltic Sea, between 1995 and 2002 year. It performed following designation of body parameters: weight of body, length of body, length of tarsometatarsus, length of sternum as well as measurement of the following heart parameters: weight, height, width, girth, weight of right and left ventricle. Existence of statistically important difference exert in range of largeness of body and hearts among birds of opposite sex. Drakes characterized greater absolute dimension of body and all-out mass, owned too larger and heavier heart. However, did not ascertain statistically important difference in case of all linear parameters of heart as well as its relative weight.

Key words: heart, birds, black scoter, morphometry.