

Materials of Conferences

**AGENCY OF PHENIBUTUM
ON PARAMETRES OF
AN ENGLOBEMENT OF RATS
OF LINE WISTAR ON MODELS
OF THE EXPERIMENTAL
DEPRESSION**

Kuleshevskaya N.R., Samotrueva M.A.,
Tyurenkov I.N., Chlebtsova E.B.
*Astrakhan State Medical Academy,
Astrakhan,
Volgograd State Medical University,
Volgograd
email: kuly80@mail.ru*

The variety of the clinical displays of depressive disturbances, the multiplicity of the different groups of antidepressants molecular impact mechanisms testify the participation of the linked disturbances of neurochemical systems in a depression pathogenesis. The study of the neuroimmune mechanisms of the depression development and the search for the correction means is one of the main directions of the psychoneuroimmunopathology development. We carried out an experimental research of the phenibute and phagocytal immune link impact on the experimental depression models. A pathological condition of the Wistar line male rats was formed under the conditions of emotional stress. As a result aggressors and victims with a daily experience of wins and losses were outlined within 20 intermale confrontations. Intact males that were placed separately in the same cells for 5 days and received intra-abdominal injections of physiological solution were used as a control №1. The rats with an experimental depression model that received intra-abdominal injections of physiological solution were involved in the control group №2. The research group was presented by the depressed animals that received intra-abdominal injection of phenibute in a dose of 25 ml/kg within 10 days. The study of the phagocytal neutrophil activity was carried out on the latex test basis with the definition of phagocytal number, phagocytal index, and the number of active phagocytes. The phagocytosis percent as well as the phagocytal number rose within the depressed animals (both aggressors and victims) in comparison with the control №1. However, the absolute number of the phagocytating neutrophils within the aggressors decreased while the increase in this index was registered within the victims. The phenibute had a

corrective impact on a non-specific immunity link within the research group animals: the phagocytal number and index decreased both within the aggressors and victims and approached the “normal” animals (control №1) phagocytal parameters, and the number of active phagocytes tended to increase within the aggressors and decrease within the victims. The results allow us to conclude that phenibute is able to remove the disturbances of non-specific resistance that appear under the depressive conditions.

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**ACID-BASIC CONDITION OF BLOOD
AS THE INDICATOR
OF EFFECTIVENESS OF USE
AT THE RATION OF BIRD
THE NATURAL POLYMINERAL
ADDITION**

Lipunova E.A.
*National research university – Belgorod state
university, Belgorod
e-mail: Lipunova@bsu.edu.ru*

The abnormalities of acid-basic condition (ABC) of the agricultural bird while the anthropogenic loads, high productiveness, discrepancy to the standards of conditions of keeping and feeding become the reason of abnormality of physiological functions.

The aim of research – to assess the effectiveness of use of polymineral addition (PMA) Ecos from the natural hydro aluminum silicate of the deposits of Belgorod region at the feeding of bird [1], using as the integral showing its physiological prosperity and adaptation to the conditions of feeding the acid-basic condition of blood (ABC).

Methodic

The researches at ducklings of meat directions of cross Medeo were carried out in conditions of vivarium of Belgorod state university; scientifically-producing experience at the ducklings-boil-