UDC 504.5: 628.4.047: 639.92: 612.12

EFFECT OF GAMMA RADIATION ON INDICATORS IMMUNOBIOLOGICAL RABIT BLOOD

S.S. Kostyuk

Institute of Physiology and ekoimunolohiyi animals and birds LNUVM and BT name S.Z. Hzhytskij

O.T. Busenko

National University of Life and Environmental SciencesUkraine

We investigated the effect of gamma radiation on immunological blood parameters of rabbits. Established that lizotsym activity decreased under the influence of gamma irradiation, phagocytic index increased almost four times the number increased phagocytic and phagocytic activity of leukocytes after exposure decreased.

Research conducted on twenty rabbits breed 'White Giant', which were selected on the basis of pairs of analog.

Animals were irradiated with X-rays DL = 50, which was the 1000 X-ray -190 kV, and - 20 mA, focal distance - 62 cm, filters Cu - 0,5, Al - 1 mm., Power - 20 R / min. To filter soft rays used aluminum and copper filters. Irradiation was pervasive and momentary.

Phagocytic and lizotsymna activity decreased under the influence of gamma irradiation and phagocytic index and phagocytic number, on the contrary increased.

Of the studied parameters most likely caused changes in terms of radiation phagocytic index and phagocytic number ($p < 0,05$), which indicates that the antimicrobial activity of irradiated rabbits increased.