



EPIDEMIOLOGICAL ASPECTS OF BIRDS MIGRATION OVER ZMIINY ISLAND

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Zmiiny Island is ornithologically unique that is confirmed by the fact that the birds great migration way along the Black Sea coast from the south to the north lie over Zmiiny Island. Medical and epidemiological aspects of birds migrations are very important due to present time activation of natural centers of such dangerous infections as tick encephalitis, hemorrhagic fevers, ornithosis, avian influenza.

In 2006 year on Zmiiny Island the complex ornithological, entomological, parasitological and virological investigations were carried out. The investigations were carried out by expeditional-watch method. During expeditions more than 120 birds species on Zmiiny Island were revealed.

The spring period in 2006 year was characterized by flight of several mass species which were moved in warm sectors of cyclones over Balkans and northern-western Black Sea coast. During expedition period 3094 birds of 59 species were caught.

To establish the role of birds in transfer of especially dangerous diseases the samples of bird blood, died birds and ticks were selected. During investigations 26 blood samples of 9 birds species were selected, 86 died birds of 12 species were frozen and 75 cameras with various ticks species from 10 species of birds were completed. The greatest number of ticks was revealed in blackbird. For instance, in 30 of March in 2006 year the individual with 24 ticks was caught. During the migration period the mass swallows death associated with the change of temperature conditions in days and nights was registered.

Antigens of tick encephalitis virus were revealed in ticks of *Ixodes ricinus*, *Ixodes apronophorus* species, in larvae and nymphs picked from migrated birds. Serological investigations allowed to reveal the presence of antibodies to tick encephalitis virus in birds blood. The electronic data archive of taxonomical content of migrating and settled birds as reservoir of infectious diseases agents in nature and their transporters from Africa to Europe and Ukraine was created.

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ЭПИДЕМИОЛОГИЧЕСКИЕ АСПЕКТЫ МИГРАЦИИ ПТИЦ ЧЕРЕЗ ОСТРОВ ЗМЕИНЫЙ

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Установлено присутствие антител к арбовирусам в крови птиц и антигенов арбовирусов у клещей *Ixodes ricinus*, *Ixodes apronophorus*, личинок и нимф, снятых с птиц, которые мигрировали через о. Змеиный в 2006 г.