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ВЕСТНИК

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EFFICIENCY OF ENSURING VETERINARY WELFARE ON INFECTIOUS DISEASES OF LARGE AND SMALL HORSE CATTLE IN BAYSERKE-AGRO LLP

Abstract. The article provides the epizootological characteristics of livestock farms of Baysyerke-Agro LLP and the adjacent territories.

In the Almaty region in the territory adjacent to the farms of Baysyerke-Agro LLP, we studied the epizootic situation of especially dangerous animal diseases.

At the same time, cases of detection of pathogens of tuberculosis, brucellosis, listeriosis, viral diarrhea, salmonellosis, moraxellosis, necrobacteriosis and others were reported.

Keywords: epizootological units, listeriosis, epizootic process, monocytogenes, bradzota, anthrax.

Introduction. For the successful control of animal diseases, groups were created that were separated, the so-called epizootological (epidemiological) units (EU). Developed and implemented measures, including a set of organizational, economic, veterinary and sanitary and special veterinary activities. A list of works in each area, providing epizootic well-being was given. The implementation of all activities reflected in the relevant plan enabled the well-being of all livestock farms of Baysyerke-Agro LLP.

Results and analysis of the data. Infectious (contagious) diseases by their nature hold a specific place in the pathology of animals. A distinctive feature of these diseases is the ability of a specific pathogen to be transmitted from a sick animal to a healthy one. This determines the potential for continuous transmission of the causative agent of an infectious disease, the mass scale of animal damage and the tendency to widespread territorial occurrence. In terms of these characteristics, infectious diseases constitute the most dangerous group of diseases, due to the continuity of the epizootic process and the ability to cause enormous economic damage to livestock and to be transmitted to humans (most of them have this ability) [1].

To date, more than 120 contagious diseases are registered on the territory of the Republic of Kazakhstan, most of which are common to humans and animals [2].

During the entire period of research from 2015 to 2018 we have identified cases of the detection of pathogens of tuberculosis, brucellosis, listeriosis, viral diarrhea, salmonellosis, morax, necrobacteriosis and others in the territory adjacent to the farms of Baysyerke-Agro LLP in the Almaty region.

Based on the conducted monitoring studies, anti-epizootic measures have been developed, which reflect a set of organizational, economic, veterinary-sanitary and special veterinary measures.

Organizational and economic measures included the formation of separated groups of animals (epizootological or epidemiological units), carrying out an indication of the entire livestock, organization of work of veterinary and sanitary facilities, as well as the development of animal husbandry technology, contributing to the breakdown of the epizootic chain.

Veterinary-sanitary measures included the timely and regular work on the destruction of pathogens in the environment, i.e. disinfection, disinfestation and disinsection.

Special veterinary measures were carried out in strict accordance with the epizootic situation and included timely diagnosis, specific prophylaxis and therapy.

All of these measures are included in a comprehensive plan of anti-epizootic measures (TEM).

The implementation of the measures stipulated by the plan and recommendations of scientists of KazNIVI LLP, allowed to ensure epizootic well-being in all areas of Bayserke-Agro LLP, which contains farm animals. In recent years, there have been no cases of mass destruction of animals with infectious diseases, although, as noted above, there have been the presence of pathogens of many diseases in the external environment (tuberculosis, brucellosis, pasteurellosis, chlamydia, listeriosis, moraxellosis, etc.).

Thus, the strategy for combating brucellosis included the diagnosis of animal diseases by means of RPP and CSC.

In prosperous epizootological units, screening studies were performed according to the formula recommended by the OIE, which provides for the control of not all the livestock of animals, but of individuals, the number of which depends on the size of the groups (EC) (table).

Calculation of a sample of animals from EU for subsequent studies with different prevalence and different livestock

The number of livestock in EU(голл)	Permissible prevalence of animals, %						
	0,2	0,4	1	2	5	10	20
Less than 10	all	all	all	all	all	all	all
10	10	10	10	10	10	10	8
20	20	20	20	20	19	16	10
30	30	30	30	30	26	19	11
40	40	40	40	40	31	21	12
50	50	50	50	48	35	22	12
60	60	60	60	55	38	23	12
70	70	70	70	62	40	24	13
80	80	80	80	68	42	24	13
90	90	90	90	73	43	25	13
100	100	100	100	78	45	25	13

In the sample of the research animals, it was guided by the presence of the most sensitive and susceptible to brucellosis infection in the group. As it is known from the data of the special literature [3], that artiodactyls young pubescent individuals are more likely to develop brucellosis. In the presence of them in the herd, first of all they were researched the specified contingent. In any group that contained large and small cattle of different ages, horses, camels, to the research were first investigated pubescent heifers, a female heifer that has never had a calf, and a heifer that give a birth for the first time.

LLP "Baiserke-Agro" is currently safe for tuberculosis. However, on the dairy farm adjacent to the robotic farm contained cattle, among which animals were positively responsive to tuberculin. When making the final diagnosis, pathological and bacteriological investigating was performed on the section. In this case, the diagnosis was confirmed, and all the unfavorable livestock of cattle were handed over for slaughter. On the farm that held veterinary and sanitary measures to destroy the pathogen in the environment. Right now, on this farm placed animals meat direction of productivity.

The culture of *Listeria monocytogenes* was isolated by us from poor quality silage samples, what was taken into account when making the AM plan and in this regard, the appropriate vaccine is provided and immunization is carried out.

In general, the cattle that contained in the milk production complex during the year was forced to veterinary manipulations of 5 to 10 treatments.

Small ruminants are on year-round grazing and have contact with groups of animals from other economic subjects that are unfavorable for certain infectious diseases. In this regard, separate sex and age

groups were immunized against brucellosis, dysentery of lambs, infectious enterotoxemia, bradzota, malignant sheep edema, anthrax, and further, taking into account the current epizootic situation and the regional plan to combat animal diseases.

In order to prevent the disease of sexually transmitted animals and increase the productivity of the livestock, artificial insemination is carried out in all EU of small ruminants.

The results of the work on feeding technology and keeping the sheep make it possible to preserve and grow the litter as much as possible against the background of veterinary well-being, which makes it possible to ensure the safety of lambs up to 96%, to reach body weight in 4-5 months of age up to 45-47 kg. The profitability of the production of sheep products has grown in certain groups of at least 15.0-20.0%.

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«БАЙСЕРКЕ-АГРО» ЖШС-де ІРІ ЖӘНЕ ҰСАҚ ҚАРА МАЛ ЖҰҚПАЛЫ АУРУЛАР БОЙЫНША ВЕТЕРИНАРИЯЛЫҚ САЛАУАТТЫЛЫҚТЫ ҚАМТАМАСЫЗ ЕТУДІҢ ТИІМДІЛІГІ

Аннотация. Мақалада "Байсерке-Агро" ЖШС мал шаруашылығы фермаларының және оған іргелес аумақтардың эпизоотологиялық сипаттамасы берілген. Алматы облысында "Байсерке-Агро" ЖШС фермаларына іргелес аумақтарында жануарлардың аса қауіпті аурулары бойынша эпизоотиялық жағдай зерттелді.

Түйін сөздер: эпизоотологиялық қондырғылар, листериоз, эпизоотиялық процесс, моноцитогендер, брацота.

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А. М. Намет, Т. С. Садыкулов, Д. М. Бекенов, В. Ю. Сущих**

ЭФФЕКТИВНОСТЬ ОБЕСПЕЧЕНИЯ ВЕТЕРИНАРНОГО БЛАГОПОЛУЧИЯ ПО ИНФЕКЦИОННЫМ БОЛЕЗНЯМ КРУПНОГО И МЕЛКОГО РОГАТОГО СКОТА В ТОО «БАЙСЕРКЕ-АГРО»

Аннотация. В статье дана эпизоотологическая характеристика животноводческих ферм ТОО «Байсерке-Агро» и прилегающих к ней территорий. В Алматинской области на территории, прилегающей к фермам ТОО «Байсерке-Агро», нами была изучена эпизоотическая ситуация по особо опасным болезням животных.

Ключевые слова: эпизоотологические единицы, листериоз, эпизоотический процесс, моноцитогены, брадзота.

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