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DIAGNOSTICS OF RABBIT EMERIOSIS

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Annotasiya - Ushbu maqolada quyunchilik bilan shug'ullanib kelayotgan xo'jaliklar va shaxsiy xonadondagi quyonboqarlarni tez-tez bezovta qilib, iqtisodiy zarar keltiradigan parazitar kasallik eymeriozning diagnostikasi, kasallikni ertachi aniqlash va aniq tashhis qo'yish usullari haqida yozilgan.

Kalit so'zlar. Quyon, parazitlar, eymeriya, eymerioz, darling, poliuriya, fermer, kompleks, patologoanatomik, syentrifuga.

Abstract - This article describes the diagnosis of Eimeria, a parasitic disease that often disturbs rabbit farms and private households and causes economic damage, early detection of the disease, and methods of accurate diagnosis.

Keywords. Rabbit, parasites, eimeria, eimeria, darling, polyuria, farmer, complex, pathological, centrifuge.

INTRODUCTION. The 2022-2026 program for the development of the livestock sector and its industries in the Republic of Uzbekistan is aimed at setting priority goals and objectives for the rapid development of the livestock industry and its industries, the stable supply of food products to the population of the republic, and the expansion of production opportunities. Today, there are 18,032 livestock farms in our republic, of which 7,614 cattle farms, 3,263 sheep and goat farms, 142 goat farms, 52 camel farms, 1,163 poultry farms, 4,829 fish farms, 715 bee farms, and 254 rabbit farms.

Animal husbandry is one of the priority areas of agriculture in our republic, and it plays an important role in providing the population with basic food products. As a small branch of rabbit breeding, which we are studying, it is mainly bred in households, and today the number of farms engaged in rabbit breeding is very small. At the present time, when ensuring food safety is considered an urgent task, it is important to improve the efficiency of the rabbit breeding network. It is observed that certain parasitic diseases in rabbits hinder the fulfillment of this urgent task, and introduction of

effective methods of their prevention and treatment is a necessity in production for this sector. Because in recent years in our republic, the parasitic diseases of rabbits (eimeriosis, etc.) have hardly been studied by scientific researchers.

LITERATURE ANALYSIS AND METHODOLOGY. Rabbit eimeria is an invasive disease caused by single-celled simple parasites - eimeria. Eimeria in rabbits has different clinical forms. Rabbits up to 3 months of age are severely affected by eimeria. When the disease is accompanied by complex pathological changes, rabbits lose their appetite due to disturbances in the digestive system, their mobility decreases sharply, their nutrition slows down, intestinal activity is disturbed (diarrhoea), diarrhea is sometimes mixed with blood, as a result, rabbits stop growing and death cases are observed. The use of highly effective means for timely diagnosis, treatment and prevention of the disease provides an opportunity for early recovery of sick rabbits and helps to reduce economic losses.

Depending on the location of eimeria in the animal body, 3 forms of rabbit eimeria are distinguished: 1. Intestinal, 2. Liver, 3. Mixed forms.

In practice, the mixed form of invasion plays an important role. At the beginning of the disease, the intestines of the rabbit are damaged, and then the liver is damaged, and as a result, the mixed form begins. After the latent period of infestation, the rabbits become loxased, lose their usual mobility, and lie on their stomachs on the ground. His appetite decreases and he stops eating.

Abdominal cavity swells and gives pain, stool becomes fluid, sometimes mixed with mucus and blood.

Sick animals stop growing, lose weight, and the fur coat is wrinkled. Urinary excretion is accelerated (polyuria). Sometimes salivation increases, the mucous membrane of the nose becomes catarrhally inflamed (rhinitis) and conjunctivitis develops.

With the start of inflammatory processes in the liver, the body becomes sluggish, the rabbit becomes indifferent to the external environment and lies down for a long time. He loses his appetite, his abdomen is swollen, and he feels pain when pressing on his right side. The visible mucous membranes turn yellow, the muscles of the legs and neck become paralyzed and begin to tremble, and they die after 7-10 days.

RESEARCH METHODS AND RESULTS. The clinical symptoms of eimeria in rabbits are best felt when the rabbits are separated from their mothers and fed with normal food.

Diagnosis of eimeria is complex. It takes into account epizootological data, age of rabbits, clinical course of the disease, pathologoanatomical changes, and changes in the liver in a mixed form. The final diagnosis of the disease is made as a result of microscopic examinations.

Among the main clinical symptoms, it is necessary to pay attention to the painful condition of the liver, paleness of the mucous membranes, increased jaundice when the liver is severely damaged, enlarged abdomen, weight loss, diarrhea, polyuria, and frequent urination.

DISCUSSION. In dead and forcibly slaughtered (killed) rabbits, the most characteristic pathologoanatomical indicators are in the intestines and liver. Catarrhal inflammation is observed in the mucous membrane of the small part and cecum, and in the severe form of the disease, hemorrhagic inflammation is observed.

In the mixed form of Eimeria, the liver is suddenly enlarged, small white or yellow ulcers appear on the liver.

For microscopic examination, droppings from infected rabbits and hares or masses from the intestines of dead animals are taken and examined using the Darling or Flewborn methods. In Eimeria, a large number of Eimeria oocysts can be seen in the field of view of the microscope.

When dead rabbits are dissected, smears are prepared from the mucous membrane of the bile ducts in the affected intestines and liver. Then these smears are dried, fixed with methyl or ethyl alcohol and stained by the Romanovsky-Giemza method and viewed under a microscope, the different stages of eimeria are analyzed.

Smears are prepared from the white and yellow lesions in the liver, taken on a microscope slide and viewed under a microscope. A large number of Eimeria oocysts can be found in it.

Darling method. The method of first sinking the eggs of parasites and helminths, and then floating them to the surface of the solution.

The technique of performing the method: 5-10 g of dung sample is taken from the suspected animal and put in a glass and mixed with normal water, then it is filtered into centrifuge tubes and the tubes are placed in the places where special test tubes are installed in the centrifuge and rotated 1000 times per minute for 5 minutes. Then the test tubes are removed from the centrifuge, the liquid part of the sample is poured out, and Darling's liquid is added to the sediment, mixed well with a glass or wooden stick, and again placed in the centrifuge and rotated at a speed of 1000 times per minute for 5 minutes. The composition of Darling's liquid is a mixture of a saturated solution of table salt and glycerin in equal proportions (1:1). After that, the test tubes are carefully removed from the centrifuge, placed on a stand, and a drop of the solution is taken from the surface of the solution with a wire hook and transferred to the slide, the coverslip is closed with a glass and examined under a microscope.

CONCLUSION. In conclusion, it is important to take into account clinical signs in the diagnosis of eimeria. Darling's method is the most effective of the control methods. In this method, the disease can be diagnosed early and the disease can be prevented from spreading.

In order to prevent the disease, it is necessary to use anti-Eimeri drugs once in 3-4 weeks at the specified rate, it is necessary to observe the rules of animal hygiene in the farm, it is recommended to keep newly introduced rabbits separately, to feed young and old rabbits in separate cages.

Фойдаланилган адабиётлар.

1. Berdiyevich, D. R. (2023). TO DETERMINE THE EFFECTIVENESS OF ANTIBIOTICS IN PREVENTING CHICKEN COLIBACTERIOSIS BASED ON EXPERIMENTS.

2. Бердиев, Х. Р., & Давлатов, Р. Б. (2021). Эффективность Enrovit-О при химической профилактике колибактериоза цыплят.

3. Butaeva, I. M., Salimov, H. S., & Davlatov, R. B. (2020). On The Diagnosis Of Mixed Bacterial Infections Of Birds. *International Journal of Advanced Science and Technology*, 29(9s), 2308-2315.

4. Давлатов, Р. Б., & Хушназаров, А. Х. (2022). ҚУЁН ЭЙМЕРИОЗИ ЭПИЗООТОЛОГИЯСИ ДАВОЛАШ ВА ПРОФИЛАКТИКА ЧОРА-ТАДБИРЛАРИ. *AGROBIOTEXNOLOGIYA VA VETERINARIYA TIBBIYOTI ILMIY JURNALI*, 181-184.

5. Давлатов, Р. Б., & Бердиев, Х. Р. (2021). ТОВУҚ КОЛИБАКТЕРИОЗИНИНГ КИМЁПРОФИЛАКТИКАСИДА ОФЛОСАННИНГ САМАРАДОРЛИГИ. *Вестник Ветеринарии и Животноводства*, 1(1).

6. Давлатов, Р. Б., Салимов, Х. С., & Тоиров, Ж. Э. (2018). ВОПРОСЫ ЭПИЗООТОЛОГИИ ЭШЕРИХИОЗА ПТИЦ В УЗБЕКИСТАНЕ. In *Современное состояние, традиции и инновационные технологии в развитии АПК* (pp. 67-73).

7. Давлатов, Р. Б. (1993). Совершенствование методов борьбы с аскариозом кур.

8. Давлатов, Р. Б. (2023). ТОВУҚ КОЛИБАКТЕРИОЗИ (АДАБИЁТЛАР ШАРХИ). *INNOVATION IN THE MODERN EDUCATION SYSTEM*, 3(26), 107-111.

9. Давлатов, Р. Б., Салимов, Х. С., & Хўджамшукуров, А. Н. Паррандалар касалликлари. *Ўқув қўлланма, Самарқанд-2018*.

10. Давлатов, Р. Б., Салимов, Х. С., & Тоиров, Ж. Э. ЧУВСТВИТЕЛЬНОСТЬ КОЛИБАКТЕРИОЗА ПТИЦ К АНТИБИОТИКАМ КОЛИБАКТЕРИОЗИС SENSITIVITY TO ANTIBIOTICS. *ББК 65.2 С56*, 39.

11. Давлатов, Р. (2008). Коликокцид-препарат против эимериоза и колибактериоза птицы. *Птицеводство*, (1), 28-28.

12. Давлатов, Р. Б., Расулов, У. И., & Исломов, Г. П. (2018). МЕТОДЫ ТЕРАПИИ И ПРОФИЛАКТИКИ ПИРОПЛАЗМОЗА КРУПНОГО РОГАТОГО СКОТА. In *Современное состояние, традиции и инновационные технологии в развитии АПК* (pp. 73-76).

13. Даминов, А. С., Хашимов, Б. С., & Хушназаров, А. Х. (2018). ЭПИЗООТОЛОГИЯ И ЛЕЧЕНИЕ ПАРАМФИСТОМАТОЗА КРУПНОГО РОГАТОГО СКОТА. In *Современное состояние, традиции и инновационные технологии в развитии АПК* (pp. 76-83).

14. Ergashov, S. I., & Eshqorayev, A. M. (2023). PROTECTION OF RABBITS FROM EYMERIOSIS (COCCIDIOSIS). *ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ*, 14(5), 121-127.
15. Ergashov, S. I., & Eshqorayev, A. M. (2023). EMERIOSIS OF RABBITS (LITERATURE ANALYSIS). *ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ*, 14(5), 114-120.
16. Гафуров, А. Г., Давлатов, Р. Б., & Расулов, У. И. (2013). Ветеринарная протозоология. *Учебник для ВУЗа.-Т.:«Зарафшан*.
17. Жабборов, Ф. Ф., Нишанов, Д. Х., & Райимкулов, И. Х. (2023). ҚЎЙ ЭКТОПАРАЗИТЛАРНИНГ КИМЁПРОФИЛАКТИКАСИ. *ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ*, 14(5), 107-113.
18. Jabborov, G., & Rayimqulov, I. X. (2022). QO ‘Y VA ECHKILARNING EKTOPARAZITLARI VA ULARGA QARSHI DORI VOSITALARINI SINOV DAN O ‘TKAZISH. *AGROBIOTEKNOLOGIYA VA VETERINARIYA TIBBIYOTI ILMIY JURNALI*, 86-89.
19. Нишанов, Д. Х., Жабборов, Ф. Ф., & Райимкулов, И. Х. (2023). ДЕМОДЕКОЗНИНГ ИТЛАР ОРАСИДА ТАРҚАЛИШИ ВА ДИАГНОСТИКАСИ. *ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ*, 14(5), 133-134.
20. Nishanov, D. X., & Arabov, J. M. (2022). ITLAR DEMODEKOZINI SAMARALI DAVOLASH USULI. *AGROBIOTEKNOLOGIYA VA VETERINARIYA TIBBIYOTI ILMIY JURNALI*, 318-322.
21. Oripov, A. O., Davlatov, R. B., & Yo‘ldoshiv, N. E. (2016). Veterinariya gelmintologiyasi. *Toshkent-2016*.
22. Oripov, A. O., Davlatov, R. B., & Yuldashiv, N. E. Veterinary helminthology. *Tashkent-2016*.
23. Курбанов, Ш. Х., Отабоев, Х. Э., Эшқораев, А. М., & Фармонов, М. У. (2022). ЖИГАР ТРЕМАТОДАЛАРИНИНГ БИОЭКОЛОГИК ВА ЭПИЗОТОЛОГИК ХУСУСИЯТЛАРИ. *RESEARCH AND EDUCATION*, 1(9), 256-264.
24. Райимкулов, И. Х., Нишанов, Д. Х., & Жабборов, Ф. Ф. (2023). КАТАРАЛ-ЙИРИНГЛИ БРОНХОПНЕВМОНИЯНИНГ ПАТОМОРФОЛОГИЯСИ (ҚЎЗИЛАРДА). *ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ*, 14(5), 143-148.
25. Рустамов, Б. С., & Давлатов, Р. Б. (2021). КУРКАЛАР ГИСТОМОНОЗИНИ ДАВОЛАШ ВА ОЛДИНИ ОЛИШДА ВИТАМИНЛИ КОМПЛЕКСЛАРНИ СИНОВДАН ЎТКАЗИШ. *ВЕСТНИК ВЕТЕРИНАРИИ И ЖИВОТНОВОДСТВА*, 1(2).
26. Rustamov, B. S., & Davlatov, R. B. Prevalence and Treatment of Turkey's Histomonosissamarkand Institute of Veterinary Medicine. *International Journal of Innovations in Engineering Research and Technology*, (1), 1-5.
27. Рустамов, Б. С., & Давлетов, Р. Б. (2019). СПЕЦИФИЧЕСКАЯ АКТИВНОСТЬ ПРЕПАРАТОВ ПРИ ГИСТОМОНОЗЕ ИНДЕЕК. In *СОВРЕМЕННОЕ СОСТОЯНИЕ, ТРАДИЦИИ И ИННОВАЦИОННЫЕ ТЕХНОЛОГИИ В РАЗВИТИИ АПК* (pp. 116-119).

28. Гурсункулов, А. Р., & Хушназаров, А. Х. (2020). ҲАЙВОНЛАРНИНГ ЛАРВАЛЬ ЦЕСТОДОЗЛАРИ ВА УЛАРНИНГ ОЛДИНИ ОЛИШ ЧОРА-ТАДБИРЛАРИ. ҚОРАКЎЛЧИЛИК ВА ЧЎЛ ЭКОЛОГИЯСИ ИЛМИЙ-ТАДҚИҚОТ ИНСТИТУТИ, 332.
29. Худжамшукуров, А. Н., & Давлетов, Р. Б. (2019). РАСПРОСТРАНЕНИЕ ЭЙМЕРИОЗА КУР В УСЛОВИЯХ УЗБЕКИСТАНА И ИСПЫТАНИЕ ЭЙМЕРИОСТАТИКОВ ДЛЯ ЕГО ПРОФИЛАКТИКИ. In *СОВРЕМЕННОЕ СОСТОЯНИЕ, ТРАДИЦИИ И ИННОВАЦИОННЫЕ ТЕХНОЛОГИИ В РАЗВИТИИ АПК* (pp. 167-171).
30. Худойбердиевич, Х. А., Хушназарова, М. И., & Исоқулова, З. Х. (2022). ҚУЁН ЭЙМЕРИОЗИНИНГ ТАРҚАЛИШИ, ДИАГНОЗИ, ДАВОЛАШ ВА ОЛДИНИ ОЛИШ. *RESEARCH AND EDUCATION*, 1(9), 245-249.
31. Хушназаров, А. Х., Райимкулов, И. Х., Эшқораев, А. М., & Давлатов, Р. Б. (2023). ҚУЁН ЭЙМЕРИОЗИНИНГ КИМЁПРОФИЛАКТИКАСИ. *SCHOLAR*, 1(2), 56-62.
32. Хушназаров, А. Х. (2022). ОБЗОР ЛИТЕРАТУРНЫХ ДАННЫХ ПО ХИМИОТЕРАПИИ И ХИМИОПРОФИЛАКТИКИ ЭЙМЕРИОЗА КРОЛИКОВ. *PEDAGOGS jurnali*, 23(2), 83-86.
33. Хушназаров, А. Х., Хушназарова, М. И., & Исоқулова, З. Х. (2023). ЭЙМЕРИОЦИД ПРЕПАРАТЛАРНИ ҚУЁН ЭЙМЕРИОЗИДА ҚЎЛЛАШ. *Innovative Development in Educational Activities*, 2(1), 138-143.
34. Хушназаров, А., Райимкулов, И., & Эшқораев, А. (2023). ЗАМОНАВИЙ КАТАКЛАРДА ҚУЁНЛАРНИ БОҚИШ УСУЛЛАРИ. *Eurasian Journal of Medical and Natural Sciences*, 3(1 Part 2), 52-57.
35. Хушназарова, М. И., Исоқулова, З. Х., & Расулов, У. И. (2023). ҚУЁНЧИЛИК СОФ ДАРОМАД МАНБАИДИР. *SCHOLAR*, 1(2), 63-67.
36. Хушназарова, М. И., & Расулов, У. И. (2022). ҚУЁН ГЎШТИНИНГ ВЕТЕРИНАРИЯ САНИТАРИЯ ЭКСПЕРТИЗАСИ. In *INTERNATIONAL CONFERENCES* (Vol. 1, No. 21, pp. 78-83).
37. Хушназарова, М. И., Расулов, У. И., & Исақулова, З. Х. (2022). СОВРЕМЕННЫМ И ПЕРСПЕКТИВНЫМ МЕТОДАМ ВЕТЕРИНАРНО-САНИТАРНОЙ ЭКСПЕРТИЗЫ. *Central Asian Journal of Theoretical and Applied Science*, 3(2), 81-84.