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**INFLUENCE OF PHYSIOLOGICAL AND BIOCHEMICAL BLOOD INDICATORS ON THE ESTRUS CYCLE OF COWS**

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**References:**

1. Hormonal methods of correction of sexual cyclicity in female domestic animals: [monograph]. Smolyaninov B.V., Broshkov M.M.. Odessa. State Agrarian University: (2011). O.: TES. 153 p.

2. Broshkov M.M. Morphofunctional changes in the ovary and uterus of cows under the conditions of the sexual cycle and during its correction: author's abstract. Dissertation of the Faculty of Veterinary Sciences: 03.00.13. 2008. 27 p.

3. Parashchenko I.V., Kharenko M.I. (2004). Dynamics of biochemical indicators of blood of sexually mature heifers when using various biologically active drugs. Bulletin of the Sumy National Agrarian University. – - Issue 12 P. 127-131.

 4. Parashchenko I.V. (2011). Dynamics of protein-lipid metabolism of blood in relation to the stage of the sexual cycle and the state of sexual function of cows. Bulletin of the Sumy National Agrarian University. Issue 1 (28) P.108.

5. Kudla Yu.I., Zaviryukha V.I. (2006) Protein fractions of blood of dry cows and the effectiveness of preventive therapy for toxicosis of pregnant cows Bulletin of the Bila Tserkva State Agrarian University: Collection of scientific works - Bila Tserkva, - Issue 41. P- 109.

6. Prevention of mineral metabolism disorders in the body of cows with the use of biogenic trace element compounds. (2006): author's abstract of the dissertation... candidate of veterinary sciences: 16.00.01 / O.O. Skyba; National Agrarian University - K., 2006. - 21 p. - Ukrainian.

7.Zafrani E.S. Non-alcoholic fatty liver disease: an emerging pathological spectrum // Virchows Arch.( 2004). – Vol. 444, N 1. – P. 3-12.

8.Bacon B.R. Treatment of nonalcoholic steatohepatitis // Curr. Gastroenterol. Rep.– 2004. – Vol. 6, N 1. – P. 9-11.

9.Rubin, L. P. et al. Metabolic effects of inflammation on vitamin A and carotenoids in humans and animal models. *Advances in Nutrition.* 2017. 8(2), 197– 212. <https://doi.org/10.3945/an.116.014167>.

10.Mapletoft R. J., Bó G. A., Baruselli P. S. Control of ovarian function for assisted reproductive technologies in cattle. *Animal Reproduction*. 2018. № 6. P. 114–124.

11.Vasilenko T.F. Alteration of estrus manifestation in postpartum cows by the application of food additives from cows placenta tissue. *Proc. XIX Int. Congr.* Zool. Bejing: Inst. Zool., Chines Acad.Sci. 2004. P. 522 –525.

12. Pasichnichenko O. M., Makarchuk M. Yu. Physiology of nerves and muscles: a textbook. Kyiv, 2020. 157 p. Livestock of Ukraine 2021: Statistical collection. Kyiv: State Statistics Service of Ukraine, 2022. 160 p. URL: http://agroua.net/statistics/