THE CONSEQUENCES OF THE ACTION OF VITAMIN K FOR HEMOSTASIS OF PREGNANT RAT-FEMALES AND THEIR DESCENDANTS

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Introduction. The severity of the lesion in the liver of pregnants determines the risk of complications and adverse effects to the fetus, including development of the "hypoprotrombinaemiya"-hemorrhagic disease of the newborns.

Aim. Creation the model of the state of hypoprotrombinaemiyaï in newborns rats, caused a breach of the blood coagulation system of pregnant rats-females by liver damage.

Materials and methods The investigation was conducted in three series. Ratsfemails were injected with drugs which exhibit hepatotoxik properties and application, which is a risk factor for hemorrhagic disease of the newborn. Studies performed on rats-femailes weighing 150-200 gr. In the first series of experiment pathology was made by typing rats-femails tetracycline group at a dose of 500 mg/kg for 5 days followed by fertilization. A second series of experiments rats-femails with 16-to 20-day pregnancy ampicillin injected at a dose of 300 mg/kg.

Results and discussion Pathology that developed in pregnant rat-females after the application of the tetracycline group and ampicilin, was a violation of physiological norms for their descendants: decreasing body weight and increasing the time of bleeding. Proof that the descendants were novital capacity were manifestations of cannibalism that were in 50% research females. The clinical status of the newborn rats gave the possability to extrapolate the data on newborns with kvitaminnoù insulfience. These results confirm allknown fact that using the antibiotics during pregnancy is a factor of development of hypoprotrombinaemiyahemorrhagic disease of the newborns. In the 3-series experiment for the development of in newborn rat-females with 16-to 20-day pregnancy injected varfarin in two doses and 1.0 0.3 mg/kg. The obtained results showed that the introduction of indirect anticoagulant warfarin at a dose of 1 mg/kg in last 1/3 period of pregnancy causes serious condition in pregnant rats-females. We observed bleeding, violation of labor activity and death of animals. Using in pregnant females dose of warfarin-0.3 mg/kg caused heavy destruction of the system of hemostasis for their descendants.

Conclusion. The conducted experiments confirmed the strong risk of hemorrhagic disease in the newborns when theirs mothers were treated by antibiotics and anticoagulants.