

## **Indicators of liver weight and body weight of fetuses and newborns of mothers with iron deficiency anemia, preeclampsia and diabetes**

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*Received: 14.01.2013*

*Accepted: 25.02.2013*

**Summary.** This investigation is based on a study of indicators of liver weight and weight of fetuses and newborns from mothers with iron deficiency anemia, preeclampsia and diabetes. When maternal iron deficiency anemia and preeclampsia becomes mild to moderate severity these lead to compensatory increase in liver weight and body weight of the fetuses. When maternal iron deficiency anemia and preeclampsia becomes severe, on the contrary, there is intrauterine growth retardation, which is manifested by progressive reduction in body weight and liver weight (malnutrition) as a measure of depletion of compensatory-adaptive reactions of the fetus. Moreover, when the maternal preeclampsia occurs this process is more difficult than in maternal iron deficiency anemia. When the mother's diabetes mild, similar to, but more intense than in maternal iron deficiency anemia and preeclampsia, there is both increase in body weight and liver weight of the fetus. When the mother's diabetes moderate to severe there is or fetal macrosomia with hepatomegaly or microsomia with liver hypotrophy. The mother's severe diabetes is expressed more intensely than the mother's moderate diabetes.

**Key words:** iron deficiency anemia, preeclampsia, diabetes, liver, newborn, fetus, extragenital pathology.

**How to cite:** Protsenko ES, Remnyova NA. [Indicators of liver weight and body weight of fetuses and newborns of mothers with iron deficiency anemia, preeclampsia and diabetes]. *Morfologiya*. 2013;7(1):65-72. Russian.

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