





## **Comparative analysis of the effectiveness of using some parameters of endogenous intoxication on the course of experimental toxic hepatitis**

**Kurbonova Z.Ch., Sayfutdinova Z.A.,  
Xashimova G.T., Muhammadiev X.G.**

**Relevance.** Modern ideas about the metabolic response in critical conditions, understanding the mechanisms of violations of all types of metabolism, the formation of hyper catabolism, hypermetabolism and the development of tissue metabolism disorders determine the need for the use of substances that can affect metabolic homeostasis and the cellular energy-producing system [3,5]. Moreover, indicators of endogenous intoxication (ALT, AST) affecting the course and development of toxic hepatitis are not fully understood [1, 2, 4], which was the relevance of the study.

**Purpose of the study.** To determine the effectiveness of the use of biochemical parameters of liver protein metabolism (ALT, AST) on the course of experimental toxic hepatitis.

**Materials and research methods.** To achieve this goal, the biochemical parameters of liver protein metabolism (ALT, AST) were evaluated for the course of experimental toxic hepatitis in the model of heliothrin intoxication. As is known, heliothrin is chemically related to pyrrolizidine alkaloids, and it is known that its precursor is cadeverdin, which is oxidized to gamma-aminobutyric aldehyde with the formation of non-innic alcohols with monobasic non-cinic acids. Acute heliothrin intoxication was reproduced by a single subcutaneous injection of a sublethal dose of heliothrin, prepared at the rate of 40 mg per 100 g of body weight, to rats. Toxic hepatitis was reproduced by subcutaneous administration of heliothrin (25 mg/100 g). The material for the study is venous blood. Protein balance indicators were studied: total blood serum protein, albumin and globulin and biological materials (ALT, AST, bilirubin and alpha-amylase) by biochemical analysis using HUMAN test systems (Germany) on a semi-automatic biochemical analysis BA88A (Mindray, China). Protein fractions will be determined by the turbidimetric method according to the generally accepted method.

Animals were divided into equal groups:









