

# **CIRCADIAN DEPENDENCE OF THE ANTRAL INFLUENCE TO THE INDICES OF PROTEIN METABOLISM IN CONDITIONS OF CHRONODETERMINATED PARACETAMOL HEPATITIS IN RATS.**

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**Introduction.** Perspectivity of the chronopharmacological attitude in the medicine appointment is absolute because it allow us to use well-known and well-studied medicines minimizing and totally neutralizing it's side effects. However at this moment there are more questions than answers in chronofarmacology.

**Aim.** This work is devoted to studying the daily dependence of the hepatoprotector carsil effect to the indices of protein metabolism in conditions of chronodetermined paracetamol hepatitis in female rats.

**Materials and methods.** The research was carried out on the model of acute paracetamol hepatitis (APH) in female rats. Injection of paracetamol (1000 mg/kg ) was in such periods of the day as: night(03.00), morning (09.00), afternoon (15.00) and evening (21.00). Carsil was injected in therapeutic and preventive regime in dose of 100 mg to one rat's kilogram. As indicators of protein metabolism the level of albumin, total protein and carbamide were determined.

**Results and discussion.** During the time of modeling APH was registered insignificant reduction of the total protein level (on 7-12% concerning an intact animals), while the content of albumin wasn't changed during the day. The level of carbamide as the basic product of the protein metabolism , in APH conditions was reduced for certain in the evening (21.00) and night (03.00) on 25 and 28 % accordingly, while in the afternoon was observed only the tendency to reduction of it's index (on 15%) and an absence any changes in the morning. Using antral against the background of APH was conductive to content of total protein only in night-group of medicine, while the albumin level under the antral action wasn't changed during twenty-four hours. Antral injection was reflected by increasing level of carbamide (on 20-30%) in the evening and night (21.00-03.00), while it was not essential changes in another research-hours. Thus, antral injection against the background of APH was characterized by changing the content of the total protein only at night and increasing level of carbamide in the evening and night, and absence of practically significant changes albumin's content.

**Conclusions.** The results that were taken about daily influence of antral to protein metabolism indices against the background of chronodetermined paracetamol hepatitis should be taken into account during the development of antral «chronoportrait».