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27TH INTERNATIONAL CONGRESS OF CLINICAL CHEMISTRY AND LABORATORY MEDICINE
52ND CONGRESS OF ASSOCIATION OF CLINICAL BIOCHEMISTS OF INDIA

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# Chronic hypodynamic stress impact on the development of insulin resistance as diabetes marker in pregnant rats

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## Section snippets

### Background-Aim

The number of diabetes cases in the Ukrainian population doubled in recent years. Numerous researches proved that one of the main roles in diabetes facilitation belongs to chronic stress.

The moderate damage of endo- and exocrine pancreatic apparatus as well as the activation of the sympathoadrenal system and consequent arterial hypertension was shown in experiments with animals under prolonged stress conditions. The aim of the present work was to determine the significance of chronic hypodynamic stress as a diabetes marker in pregnant rats.

### Methods

The research was carried out with the use of 13 mature female rats (WAG population). A battery of morphometric and biochemical studies of tissues and blood serum was conducted.

### Results

The liver tissue investigation indicated a trabecular-radial arrangement. The central lobes, however, showed the condition of protein dystrophy; also, the swollen hepatocytes with light and foamy cytoplasm and pyknotic hyperchromic nuclei were detected in periportal zones. Mentioned features point at disturbance of morphofunctional activity. The analysis of pregnant rats' blood serum revealed a significant increase in triglycerides (TG) by 151.24% and low-density lipoproteins (LDL) by 136.37%.

### Conclusions

Based on obtained data, it can be concluded that pregnant rats, which are affected by chronic hypodynamic stress, show the signs of insulin resistance development as one of the markers of diabetes.