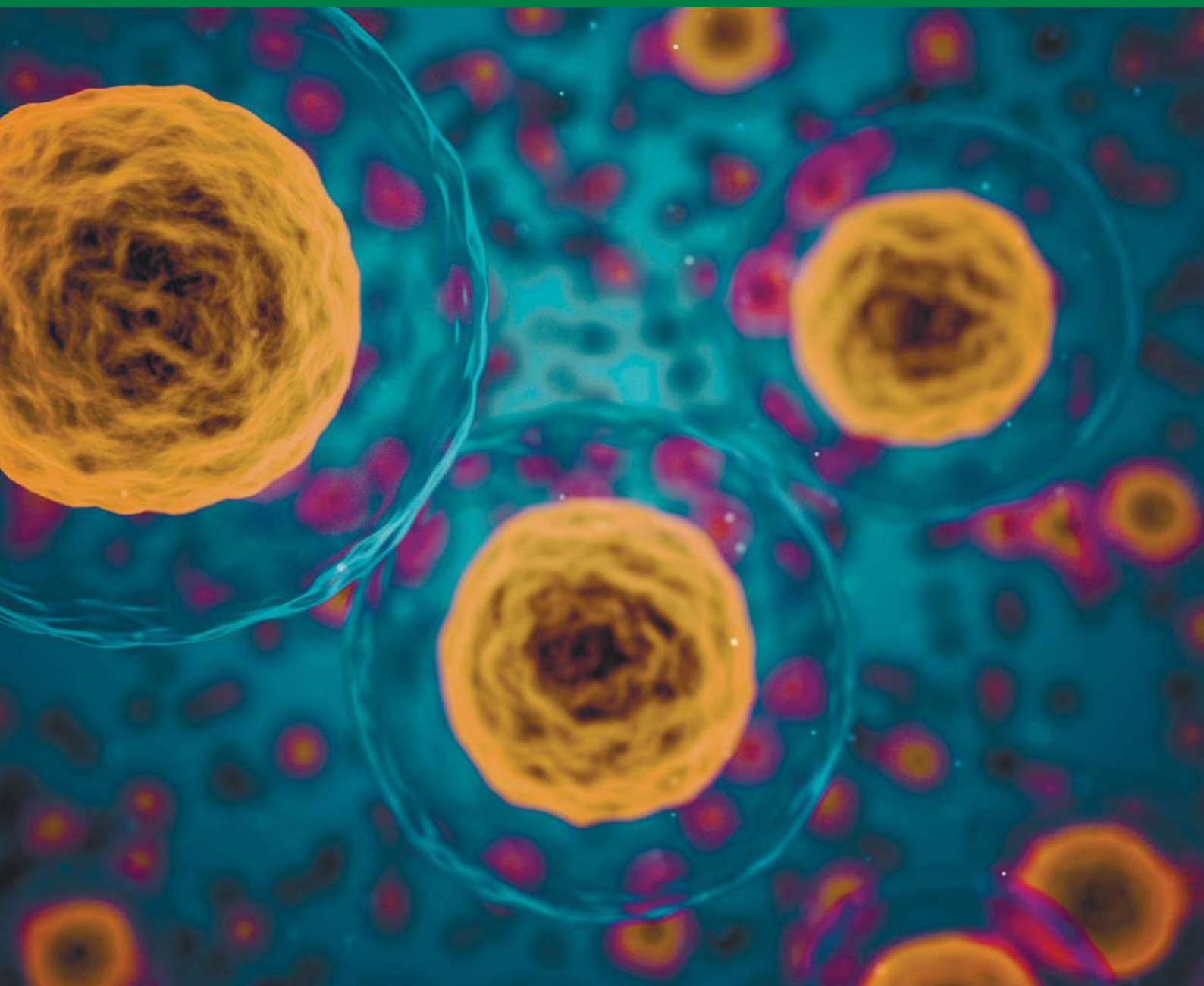
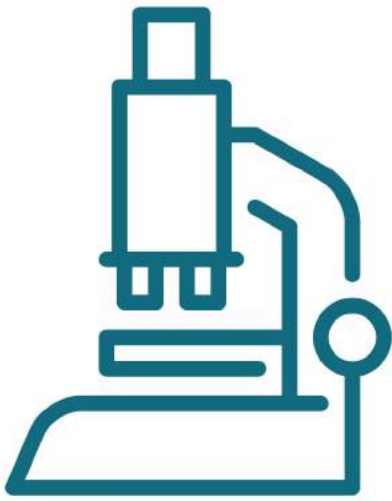


Kharkiv National Medical University

# INTERNATIONAL SCIENTIFIC INTERDISCIPLINARY CONFERENCE ISIC - 2021



**KHARKIV NATIONAL  
MEDICAL UNIVERSITY**



**BIOMEDICAL SCIENCES**





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# **THE EFFECTIVENESS OF ADEMATIONINE ON THE STAGES OF LIVER FIBROSIS AND THE PENTRAXIN-3 LEVELS IN PATIENTS WITH NON-ALCOHOLIC FATTY LIVER DISEASE AGAINST THE BACKGROUND OF ARTERIAL HYPERTENSION**

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The purpose of study: To determine the effect of ademetonine on the stages of liver fibrosis and on the level of pentraxin-3 in patients with non-alcoholic fatty liver disease (NAFLD) against the background of arterial hypertension (AH).

Materials and methods: The 30 patients with NAFLD (13 men and 17 women, the average age was 39.4 (32.7; 46.1) years). The control group includes 20 practically healthy individuals. Determination of the level of pentraxin-3 in blood plasma at the beginning and after 2 months of treatment with ademetonine was carried out using an immunoassay method, using the ELISA kit. Transient Elastography (TE) of the liver was done by ultrasonic scanner- Siemens -ACUSON S3000.

Results of research and discussion: According to the results of the patients with NAFLD on the background of AH before treatment, the amount of surface with fibrosis of liver stage F1 was 56.6% while the stage F2 - 43.4%. After 2 months from the start of ademetonine using the survey showed that the liver fibrosis stage F1 was 69.9%, while the stage F2 30.1 % ( $p < 0.05$ ). Also in 2 months of treatment the level of pentraxin-3 in patients with NAFLD on the background of AH was reduced from 453.9 (418.1; 489.8) ng/ml to 254.49 (210.3; 298.5) ng/ml ( $p < 0.001$ ).

Conclusion: In patients with NAFLD on the background of AH, the results of the administration of ademetonine demonstrates that there is significant regression in the liver fibrosis stages and a significant reduction of level of pentraxin -3 due to the anti-inflammatory action of the preparation.