

SCI-CONF.COM.UA

EURASIAN SCIENTIFIC DISCUSSIONS



**PROCEEDINGS OF V INTERNATIONAL
SCIENTIFIC AND PRACTICAL CONFERENCE
JUNE 5-7, 2022**

**BARCELONA
2022**

EURASIAN SCIENTIFIC DISCUSSIONS

Proceedings of V International Scientific and Practical Conference

Barcelona, Spain

5-7 June 2022

Barcelona, Spain

2022

UDC 001.1

The 5th International scientific and practical conference “Eurasian scientific discussions” (June 5-7, 2022) Barca Academy Publishing, Barcelona, Spain. 2022. 821 p.

ISBN 978-84-15927-32-7

The recommended citation for this publication is:

Ivanov I. Analysis of the phaunistic composition of Ukraine // Eurasian scientific discussions. Proceedings of the 5th International scientific and practical conference. Barca Academy Publishing. Barcelona, Spain. 2022. Pp. 21-27. URL: <https://sci-conf.com.ua/v-mezhdunarodnaya-nauchno-prakticheskaya-konferentsiya-eurasian-scientific-discussions-5-7-iyunya-2022-goda-barselona-ispaniya-arhiv/>.

Editor

Komarytskyy M.L.

Ph.D. in Economics, Associate Professor

Collection of scientific articles published is the scientific and practical publication, which contains scientific articles of students, graduate students, Candidates and Doctors of Sciences, research workers and practitioners from Europe, Ukraine, Russia and from neighbouring countries and beyond. The articles contain the study, reflecting the processes and changes in the structure of modern science. The collection of scientific articles is for students, postgraduate students, doctoral candidates, teachers, researchers, practitioners and people interested in the trends of modern science development.

e-mail: barca@sci-conf.com.ua

homepage: <https://sci-conf.com.ua>

©2022 Scientific Publishing Center “Sci-conf.com.ua” ®

©2022 Barca Academy Publishing ®

©2022 Authors of the articles

TABLE OF CONTENTS

AGRICULTURAL SCIENCES

1. *Заболотний О. І.* 17
ЯКІСНІ ТА БІОХІМІЧНІ ПОКАЗНИКИ ВРОЖАЮ ОГІРКА ЗА
УМОВ ПЕРЕДПОСІВНОЇ БАКТЕРИЗАЦІЇ НАСІННЯ
2. *Ковтунюк З. І.* 21
СОРТОВА ПРОДУКТИВНІСТЬ КАПУСТИ ЦВІТНОЇ В ЗОНІ
ПРАВОБЕРЕЖНОГО ЛІСОСТЕПУ УКРАЇНИ
3. *Цехмістренко О. С., Онищенко Л. С., Шулько О. П.* 25
БІОАКУМУЛЯЦІЯ СЕЛЕНУ ДОЩОВИМИ ЧЕРВ'ЯКАМИ
(EISENIA FETIDA) У ВЕРМІКОПОСТУВАННІ

VETERINARY SCIENCES

4. *Дубовий А. А., Воронков Є. О.* 34
ПОКАЗНИКИ СИРОВАТКИ КРОВІ ТА СЕЧІ У СОБАК ЗА
ГОСТРОГО ПЕРЕБІГУ ПІЄЛОНЕФРИТУ
5. *Дубовий А. А., Захарчук А. В., Воронков Є. О.* 37
АНАЛІЗ ПОШИРЕННЯ УРОЛІТІАЗУ У КОТІВ У НАВЧАЛЬНО-
НАУКОВО-ВИРОБНИЧІЙ КЛІНІЦІ ПОЛІСЬКОГО
НАЦІОНАЛЬНОГО УНІВЕРСИТЕТУ

BIOLOGICAL SCIENCES

6. *Медведєва О. В., Мірзак Т. П.* 40
ПОРІВНЯЛЬНИЙ ДОСВІД ПОВОДЖЕННЯ З ВІДХОДАМИ В
КРАЇНАХ ЄВРОПИ
7. *Медведєва О. В., Мірзак Т. П., Сергенчук І. Б.* 44
АУДИТ ВІДХОДІВ ЗАКЛАДІВ ГРОМАДСЬКОГО
ХАРЧУВАННЯ НА ПРИКЛАДІ КАВ'ЯРНІ
8. *Яковичина Т. Ф., Толоконнікова А. С.* 47
ЕКОЛОГІЧНИЙ РИЗИК СТУПЕНЯ НЕБЕЗПЕКИ ЗАБРУДНЕННЯ
СПОЛУКАМИ МЕТАЛІВ ҐРУНТІВ УРБОЕКОСИСТЕМИ М.
ДНІПРО
9. *Ярема Ю. М., Нірода Т. М., Нанинець М. В., Субота Г. М.* 52
ФАУНА ХРЕБЕТНИХ ОКУЛЬТУРЕНИХ ТА ПРИРОДНИХ
ЛАНДШАФТІВ НПП «СИНЕВИР»

MEDICAL SCIENCES

10. *Avdusenko M., Zabolotna I., Makhnova A., Turchenenko S.,
Novikova K.* 59
THE RESULTS OF USING THE PRO ROOT MTA MATERIAL IN
THE TREATMENT OF CHRONIC PERIODONTITIS IN TEETH
WITH INCOMPLETE ROOT FORMATION
11. *Babadzhan V., Koshkina M., Fedorenko O.* 64
EFFECT OF THE COMBINED COURSE OF CHRONIC

EFFECT OF THE COMBINED COURSE OF CHRONIC CORONARY ARTERY DISEASE AND TYPE 2 DIABETES MELLITUS ON LEFT ATRIAL REMODELING

Babadzhan Volodymyr
prof.MD

Koshkina Marharyta
Postgraduate student

Fedorenko Olha
Student

Kharkiv National Medical University
Kharkiv, Ukraine

Introductions. Coronary artery disease and type 2 diabetes mellitus are among the major diseases affecting humanity worldwide. These diseases have been proven to be the leading cause of death in both developed and developing countries. Lifestyle, environmental factors and genetic factors are risk factors for the development of cardiovascular disease and diabetes mellitus. In combination, these diseases have a great impact on the human body and can provoke a polymorbid condition.

Aim. To determine the structural and geometric changes of the left atrium in patients with coronary artery disease depending on the presence of type 2 diabetes mellitus under conditions of left ventricular diastolic dysfunction.

Materials and methods. There were examined 53 patients with chronic CAD, 29 of them were diagnosed with CAD in combination with type 2 diabetes, and 24 patients had only CAD. The control group consisted of 15 virtually healthy individuals. Patients with signs of left ventricular (LV) diastolic dysfunction (DD) according to echocardiographic examination (EchoCG) participated in the study. To determine the presence of LV, we paid attention to the indices that can reflect the presence and degree of LV dysfunction, namely ejection fraction, E/A ratio, end systolic and diastolic dimensions (ESR, DDR). The patients were determined total cholesterol and their fractions, fasting blood serum glucose, hemoglobin glucose.

Results and discussion. Patients with CAD and type 2 DM showed increased EDR (7.24 ± 0.07 cm) compared to patients with CAD (6.13 ± 0.05 cm) ($P<0.05$). There was also an intense increase of E/A index in patients with CAD and type 2 DM (1.32 ± 0.15) compared to patients with CAD (1.07 ± 0.12) ($P<0.05$). This indicates a more pronounced predominance of mitral flow of diastolic phase and prevalence of diastolic left ventricular dysfunction, more pronounced hemodynamic disturbances and signs of LV remodeling detected in patients with CAD and type 2 DM. Indicators of LV diastolic dysfunction are associated with indices of carbohydrate and lipid metabolism through deepening of hyperlipidemia, mainly due to TG, with hyperglycemia and growth of left ventricular DD.

Conclusions. These studies indicate an increase in myocardial stiffness when type 2 DM is combined with CAD, which contributes to increased cholesterol deposition in the vascular wall and progression of LV LD.