



colloquium-journal

ISSN 2520-6990

Międzynarodowe czasopismo naukowe

**Architecture
Medical sciences
Veterinary sciences
Pedagogical sciences
Sociological sciences
Philosophical sciences**

**№5(92) 2021
Część 2**



colloquium-journal

ISSN 2520-6990

ISSN 2520-2480

Colloquium-journal №5 (92), 2021

Część 2

(Warszawa, Polska)

Redaktor naczelny - **Paweł Nowak**
Ewa Kowalczyk

Rada naukowa

- **Dorota Dobija** - profesor i rachunkowości i zarządzania na uniwersytecie Koźmińskiego
- **Jemielniak Dariusz** - profesor dyrektor centrum naukowo-badawczego w zakresie organizacji i miejsc pracy, kierownik katedry zarządzania Międzynarodowego w Ku.
- **Mateusz Jabłoński** - politechnika Krakowska im. Tadeusza Kościuszki.
- **Henryka Danuta Stryczewska** – profesor, dziekan wydziału elektrotechniki i informatyki Politechniki Lubelskiej.
- **Bulakh Iryna Valerievna** - profesor nadzwyczajny w katedrze projektowania środowiska architektonicznego, Kijowski narodowy Uniwersytet budownictwa i architektury.
- **Leontiev Rudolf Georgievich** - doktor nauk ekonomicznych, profesor wyższej komisji atestacyjnej, główny naukowiec federalnego centrum badawczego chabarowska, dalekowschodni oddział rosyjskiej akademii nauk
- **Serebrennikova Anna Valerievna** - doktor prawa, profesor wydziału prawa karnego i kryminologii uniwersytetu Moskiewskiego M.V. Lomonosova, Rosja
- **Skopa Vitaliy Aleksandrovich** - doktor nauk historycznych, kierownik katedry filozofii i kulturoznawstwa
- **Pogrebnaya Yana Vsevolodovna** - doktor filologii, profesor nadzwyczajny, stawropolski państwowy Instytut pedagogiczny
- **Fanil Timeryanowicz Kuzbekov** - kandydat nauk historycznych, doktor nauk filologicznych. profesor, wydział Dziennikarstwa, Bashgosuniversitet
- **Kanivets Alexander Vasilievich** - kandydat nauk technicznych, docent wydziału dyscypliny inżynierii ogólnej wydziału inżynierii i technologii państwowej akademii rolniczej w Połtawie
- **Yavorska-Vitkovska Monika** - doktor edukacji, szkoła Kuyavsky-Pomorsk w bidgoszczu, dziekan nauk o filozofii i biologii; doktor edukacji, profesor
- **Chernyak Lev Pavlovich** - doktor nauk technicznych, profesor, katedra technologii chemicznej materiałów kompozytowych narodowy uniwersytet techniczny Ukrainy „Politechnika w Kijowie”
- **Vorona-Slivinskaya Lyubov Grigoryevna** - doktor nauk ekonomicznych, profesor, St. Petersburg University of Management Technologia i ekonomia
- **Voskresenskaya Elena Vladimirovna** doktor prawa, kierownik Katedry Prawa Cywilnego i Ochrony Własności Intelektualnej w dziedzinie techniki, Politechnika im. Piotra Wielkiego w Sankt Petersburgu
- **Tengiz Magradze** - doktor filozofii w dziedzinie energetyki i elektrotechniki, Georgian Technical University, Tbilisi, Gruzja
- **Usta-Azizova Dilnoza Ahrarovna** - kandydat nauk pedagogicznych, profesor nadzwyczajny, Tashkent Pediatric Medical Institute, Uzbekistan

    SlideShare



INDEX
INTERNATIONAL



COPERNICUS

НАУЧНАЯ ЭЛЕКТРОННАЯ
БИБЛИОТЕКА
LIBRARY.RU

«Colloquium-journal»

Wydrukowano w Annapol 4, 03-236 Warszawa Poland, «Interdruk»

E-mail: info@colloquium-journal.org

<http://www.colloquium-journal.org/>

CONTENTS

ARCHITECTURE

Rawnaq Hameed Zghair, Hessam Aldin Meshkat Razavi

THE NUMERICAL STUDY OF X-SHAPED METALLIC DAMPERS WITH DIFFERENT GEOMETRY IN RC FRAMES UNDER NEAR-FIELD AND FAR-FIELD EARTHQUAKES5

VETERINARY SCIENCES

Bobrova V., Kravchenko S.

ULTRASONOGRAPHIC FEATURES IN THE EXAMINATION OF THE PANCREAS IN DOMESTIC CATS DIAGNOSED WITH DIABETES MELLITUS: A PROSPECTIVE STUDY IN 7 CATS13

Тищенко А. С., Ратников А. Р., Махринова П. В., Заико К. С.

ПРОФИЛАКТИЧЕСКИЕ МЕРОПРИЯТИЯ ПО БОРЬБЕ С НЬЮКАСЛСКОЙ БОЛЕЗНЬЮ ПТИЦ14

Tishchenko A. S., Ratnikov A.R., Makhrinova P.V., Zaiko K. S.

PREVENTIVE ACTIONS FOR COMBATING THE NEWCASTLE BIRD DISEASE14

Скоробогатько С. А., Шунаева А. В., Монастырева А. Н.

ЭФФЕКТИВНОСТЬ ПРЕПАРАТА НИЛВЕРМ ПРИ ЛЕЧЕНИИ АСКАРИДОЗА СВИНЕЙ16

Skorobogatko S.A., Shunaeva A.V., Monastyreva A.N.

EFFICACY OF NILVERM IN THE TREATMENT OF PIG ASCARIDOSIS16

Шунаева А. В., Скоробогатько С. А., Нийонгабо Х., Монастырева А. Н.

ПРЕДУПРЕЖДЕНИЕ ЭМФИЗЕМЫ ЛЕГКИХ У ЛОШАДЕЙ18

Shunaeva A.V., Skorobogatko S.A., Niyongabo H., Monastyreva A. N.

PREVENTION OF LUNG EMPHYSEMA IN HORSES18

Шунаева А. В., Нийонгабо Х., Скоробогатько С. А., Монастырева А. Н.

ЭПИЗООТОЛОГИЧЕСКИЙ МОНИТОРИНГ ИНФЕКЦИОННЫХ БОЛЕЗНЕЙ ПТИЦ В КРАСНОДАРСКОМ КРАЕ20

Niyongabo H., Shunaeva A. V., Skorobogatko S. A., Monastyreva A. N.

EPISOOTOLOGICAL MONITORING OF INFECTIOUS DISEASES OF BIRDS IN KRASNODAR REGION20

PEDAGOGICAL SCIENCES

Сарсенбаева З.Ж.

ПЕДАГОГИЧЕСКИЕ ВОЗМОЖНОСТИ ПОВЫШЕНИЯ ЛИНГВОКУЛЬТУРОЛОГИЧЕСКОЙ КОМПЕТЕНЦИИ СРЕДСТВАМИ ИЗУЧЕНИЯ ПОСЛОВИЦ22

Sarsenbaeva Z.J.

PEDAGOGICAL POSSIBILITIES FOR IMPROVING LINGUOCULTURAL COMPETENCE BY MEANS OF STUDYING PROVERBS22

Дагмирзаев О.А.

СОВЕТЫ ПО УСТАНОВКЕ СРЕДЫ ПРОГРАММИРОВАНИЯ C++ BULDER24

Dagmirzaev O.A.

ADVICES FOR INSTALLING THE C ++ BULDER PROGRAMMING SYSTEM24

Ткачук Г.Е.

МОДЕЛЬ РОЗВИТКУ ГОТОВНОСТІ ВИКЛАДАЧІВ СПЕЦІАЛЬНИХ ДИСЦИПЛІН ПРОФЕСІЙНО-ТЕХНІЧНОГО НАВЧАЛЬНИХ ЗАКЛАДІВ ДО ВИКОРИСТАННЯ ОСОБИСТІСНО-ОРІЄНТОВАНИХ ПЕДАГОГІЧНИХ ТЕХНОЛОГІЙ27

Tkachuk G.E.

MODEL OF DEVELOPMENT OF READINESS OF TEACHERS OF SPECIAL DISCIPLINES OF VOCATIONAL SCHOOLS TO USE PERSONALITY-ORIENTED PEDAGOGICAL TECHNOLOGIES27

Уста-Азизова Д.А., Турсунова С., Халилова Л.

ИСПОЛЬЗОВАНИЕ СОВРЕМЕННЫХ СРЕДСТВ ИНФОРМАЦИОННО-КОМПЬЮТЕРНЫХ ТЕХНОЛОГИЙ31

Usta-Azizova D.A., Tursunova S., Khalilova L.

USE OF MODERN MEANS OF INFORMATION AND COMPUTER TECHNOLOGIES31

Уста-Азизова Д.А., Хожиева М.

ПОДГОТОВКА ПЕДАГОГОВ ПРОФЕССИОНАЛЬНОГО ОБУЧЕНИЯ КАК ОДНА ИЗ ВАЖНЕЙШИХ ПОТРЕБНОСТЕЙ ОБЩЕСТВА.....34

Usta-Azizova D.A., Khozhieva M.

PROFESSIONAL EDUCATION TEACHER TRAINING AS ONE OF THE MOST IMPORTANT NEEDS OF SOCIETY.....34

SOCIOLOGICAL SCIENCES

Аллахверанов Э.И.

СОЦИАЛЬНАЯ АДАПТАЦИЯ ВОЕННОСЛУЖАЩИХ УВОЛЕННЫХ С ВОЕННОЙ СЛУЖБЫ37

Allahveranov E.I.

SOCIAL ADAPTATION OF MILITARY SERVICES DISCARDED FROM MILITARY SERVICE37

PHILOSOPHICAL SCIENCES

Гнатюк Е.М.

ОНТОЛОГИЗАЦІЯ ТЕКСТУ В ГЕРМЕНЕВТИЦІ М. ГАЙДЕГГЕРА ТА Г.-Г. ГАДАМЕРА39

Gnatyuk E.M.

ONTOLOGIZATION OF THE TEXT IN THE HERMENEUTICS OF M. HEIDDEGER AND G.-G. GADAMER39

Чоп Т.О.

КОНЦЕПЦІЯ УКРАЇНСЬКОГО ФУТУРИЗМУ В КОНТЕКСТІ ТЕОРІЇ ПЕРФОРМАТИВНОСТІ42

Chop T.O.

CONCEPT OF UKRAINIAN FUTURISM IN THE CONTEXT OF THEORIS OF PERFORMANCE42

MEDICAL SCIENCES

Антонів А.А., Коцюбійчук З.Я., Бабюк Т.І., Копчук Т.Г.

РОЛЬ РОЗЛАДІВ ГЕМОСТАЗУ У ПАТОГЕНЕЗІ ПРОГРЕСУВАННЯ НЕАЛКОГОЛЬНОЇ ЖИРОВОЇ ХВОРОБИ ПЕЧІНКИ ЗА КОМОРБІДНОСТІ З ХРОНІЧНОЮ ХВОРОБОЮ НИРОК45

Antoniv A.A., Kotsyubiychuk Z.Y., Babiuk T.I., Kopchuk T.G.

ROLE OF HEMOSTASIS DISORDERS IN PATHOGENESIS OF NON-ALCOHOL FATTY LIVER DISEASE PROGRESS ON THE BACKGROUND OF CHRONIC KIDNEY DISEASE45

Антонів А.А., Коцюбійчук З.Я., Возняк О.П., Копчук Т.Г.

РОЛЬ ЕНДОТЕЛІАЛЬНОЇ ДИСФУНКЦІЇ У ВИНИКНЕННІ ТА ПРОГРЕСУВАННІ НЕАЛКОГОЛЬНОЇ ЖИРОВОЇ ХВОРОБИ ПЕЧІНКИ ТА ХРОНІЧНОЇ ХВОРОБИ НИРОК49

Antoniv A.A., Kotsyubiychuk Z.Y., Vozniak O.P., Kopchuk T.G.

THE ROLE OF ENDOTHELIAL DYSFUNCTION IN THE DEVELOPMENT AND PROGRESSION OF NON-ALCOHOL FATTY DISEASE OF LIVER AND CHRONIC DISEASE.....49

Каньовська Л.В., Новицька І.О., Пьонтик М., Микитюк Н.

ХОЛЕСТЕРОЗ ЖОВЧНОГО МІХУРА ЯК ОДИН ІЗ ГАСТРОЕНТЕРОЛОГІЧНИХ ПРОЯВІВ МЕТАБОЛІЧНОГО СИНДРОМУ54

Kanovska L.V., Novitska I. O., Pontyk M., Mykytjuk H.

CHOLESTEROL OF THE GALLBLADDER AS ONE OF THE GASTROENTEROLOGICAL MANIFESTATIONS OF METABOLIC SYNDROME.54

Shnaider S.A., Tkachenko Ye.K., Niepriakhina O.V., Zavoiko D.S., Nikolaienko K.V.

PERIODONTAL PROTECTION PROPERTIES OF THE COMPLEX OF VITAMIN D3 METABOLITES WITH VIKASOL UNDER CONDITIONS OF EXPERIMENTAL PERIODONTITIS57

Shnaider S.A., Niepriakhina O.V., Gorokhivski V.N., Savielieva N.N., Tkachenko Ye.K.

THE EFFECT OF A COMPLEX OF POLYUNSATURATED FATTY ACIDS WITH A-TOCOPHEROL ON THE STATE OF PERIODONTAL BONE TISSUE IN EXPERIMENTAL CHOLESTEROL ATHEROSCLEROSIS IN RABBITS.....60

Borodach V.A., Shnaider S.A., Savielieva N.N., Zavoiko D.S., Tkachenko Ye.K. EFFECT OF A COMPLEX CONTAINING 1- α HYDROXYCHOLI-CCALCIFEROL, ANTIOXIDANTS AND CALCIUM PHOSPHATE IN AN ANTIOXIDANT-FREE DIET AND ADDITIONAL LOCAL EXPOSURE	62
Jassim Mohamed Khalaf, Asaad Oleiwi Khalaf, Ahmed Qasim Zighir COMPARATIVE STUDY BETWEEN COMPLICATIONS AFTER LAPAROSCOPIC AND OPEN APPENDECTOMY	65
Ahmed Qasim Zighir, Jassim Mohamed Khalaf, Asaad Oleiwi Khalaf RISK AND INCIDENCE RATE FOR COLORECTAL CANCER PATIENTS IN AL-ANBAR CENTER FOR ONCOLOGY.....	71
Зражевська А.Ю. МЕТОДИКА ПРОГНОЗУВАННЯ РОЗВИТКУ ВТОРИННИХ ЗУБОЩЕЛЕПНИХ ДЕФОРМАЦІЙ У ДІТЕЙ З НЕКОМПЕНСОВАНИМИ ДЕФЕКТАМИ ЗУБНИХ РЯДІВ ШЛЯХОМ ВИМІРЮВАННЯ ОПОРНИХ ЗОН НА ОРТОПАНТОМОГРАМАХ.....	76
Zrazhevs'ka A.Ju. METHODOLOGY FOR PREDICTING THE DEVELOPMENT OF SECONDARY DENTOALVEOLAR DEFORMITIES IN CHILDREN WITH UNCOMPENSATED DENTITION DEFECTS BY MEASURING SUPPORT ZONES ON ORTHOPANTOMOGRAMS.....	76

Conclusion

Thus, we have demonstrated the general mechanisms of free radical damage to the liver and bone tissue of experimental animals under the influence of reproduced atherosclerosis. In addition, in the bone of the alveolar process and the femur of rabbits, LPO activation and a decrease in the functioning of the FAS components were revealed as a result of this action.

The complex of PUFA with α -tocopherol showed an angioprotective effect. It has a protective effect in the bone tissue of the periodontium against free radical lipid oxidation and has antioxidant properties.

The data obtained indicate that atherosclerosis of the arteries contributes to the disruption of the antioxidant systems of the periodontal bone tissue. It can be assumed that the development of periodontitis with a known risk factor - atherosclerosis, to a certain extent, is caused by peroxide mechanisms.

List of references

1. Voskresensky O.N., Tkachenko E. K. Rol' perekisnogo okisleniya lipidov v patogeneze parodontita [The role of lipid peroxidation in the pathogenesis of periodontitis]. Dentistry, 1991; 4; 6-10.
2. Patent 22879 Ukraine. Sposib modelyuvannya parodontitu [Method for periodontitis]. Promislova Vlasnist, 1998; 3; 1-8.
3. Nikolaeva A.V. Vliyanie nekotorykh nejrotropnykh sredstv na sostoyanie tkanej parodonta pri razdrazhenii verkhnego shejnogo simpaticeskogo

yzla [The influence of some neurotropic drugs on the condition of periodontal tissues in case of irritation of the upper cervical sympathetic]: Avtoref.dis..kand.med.nauk. Kharkov, 1967; 28.

4. Vladimirov Y.A., Archakov A.I. Perekisnoe okislenie lipidov v biologicheskikh membranakh [Lipid peroxidation in biological membranes]. M.Science, 1972; 230.

5. Stalnaya I.D. Metod opredeleniya dienovykh kon'yugacij nenasyshennykh vysshikh zhirnykh kislot [Method for the determination of diene conjugations of unsaturated higher fatty acids]. Modern methods of biochemistry, 1977; 63-64.

6. Kornberg B., Horecer A. Glucoso-6-phosphate dehydrogenase. Method. Ensimol., 1955; 1; 322-325.

7. Putilina E. F. Opredelenie aktivnosti glutation-reduktazy [Determination of the activity of glutathione reductase]. Methods of biochemical studies, 1982; 181-183.

8. Pakhomova V., Kozlyanina N., Kryukova G. Sposob opredeleniya aktivnosti glutation-peroksidazy v biologicheskikh tkanyakh [A method for determining the activity of glutathione peroxidase in biological tissues]. A.S. 922637 of the USSR. MKI 01 33/48. Publ. 04/25/82, Bull. 15; 2.

9. Tkachenko E.K. Regulyatornaya funkczija i patogeneticheskoe znachenie peroksidazy slyuny [Regulatory function and pathogenetic significance of salivary peroxidase]. M., 1985; 24.

UDK 616.314.17-008.1-085:577.161.22:577.161.3

Borodach V.A.,

State Establishment «The Institute of Stomatology and Maxillo-Facial Surgery National Academy of Medical Science of Ukraine»

Shnaider S.A.,

State Establishment «The Institute of Stomatology and Maxillo-Facial Surgery National Academy of Medical Science of Ukraine»

Savaliyeva N.N.,

Kharkiv National Medical University

Zavoiko D.S.,

State Establishment «The Institute of Stomatology and Maxillo-Facial Surgery National Academy of Medical Science of Ukraine»

Tkachenko Ye.K.

State Establishment «The Institute of Stomatology and Maxillo-Facial Surgery National Academy of Medical Science of Ukraine»

EFFECT OF A COMPLEX CONTAINING 1- α HYDROXYCHOLI-CCALCIFEROL, ANTIOXIDANTS AND CALCIUM PHOSPHATE IN AN ANTIOXIDANT-FREE DIET AND ADDITIONAL LOCAL EXPOSURE

Abstract.

In experiments on 53 white rats, the protective properties of a complex containing 1 α OHD₃, antioxidants and calcium phosphate were studied. Modeling of periodontal pathology was carried out under conditions of a common risk factor for the development of periodontitis - peroxidation syndrome and a local factor - dental plaque.

Keywords: modeling, antioxidant-free diet, dental plaque, complex, 1 α -hydroxycholecalciferol, antioxidants.

The general risk factors for the development of periodontitis are currently recognized as neuropsychiatric stress, physical inactivity, unbalanced nutrition, including chronic insufficiency of antioxidants due to the significant role of free radical oxidation of lipids

and biopolymers of periodontal membranes in periodontitis [1,2]. Along with the general, periodontitis-specific risk factors are known, which include dental plaque.

The aim of this study was to study the combination of antioxidants with the hormonal form of vitamin D₃

and calcium phosphate under conditions of a combination of the general peroxidation syndrome with a local factor - an effect that simulates dental plaque in rats.

Materials and research methods. The study, which lasted 100 days, was carried out on 53 male Wistar rats of herd breeding, divided into 5 groups: 1st group - 9 intact rats were kept on a standard vivarium diet (DV); 2nd - in 10 rats kept on DV, in order to simulate dental plaque (in the form of a pathogenic local effect) in the area of the cement-enamel border of the molars of rats, a layer of medical cyacrine glue (MK-2) was applied in the form of a narrow strip 3 times a week on both sides of the tooth surface (DV + cyacrine); 3rd - 8 rats were kept on a semi-synthetic antioxidant-free diet (BAR) according to O.N. Voskresensky [3].

In the 4th group, 8 rats were kept on BAR with additional local exposure (BAR + cyacrine); Group 5 - 18 rats received a complex of antioxidants with 1 α -hydroxycholecalciferol and disubstituted calcium phosphate (BAR + cyacrine + complex) against the background of BAR and pathogenic local action [4]. The complex was administered to rats daily per os using a

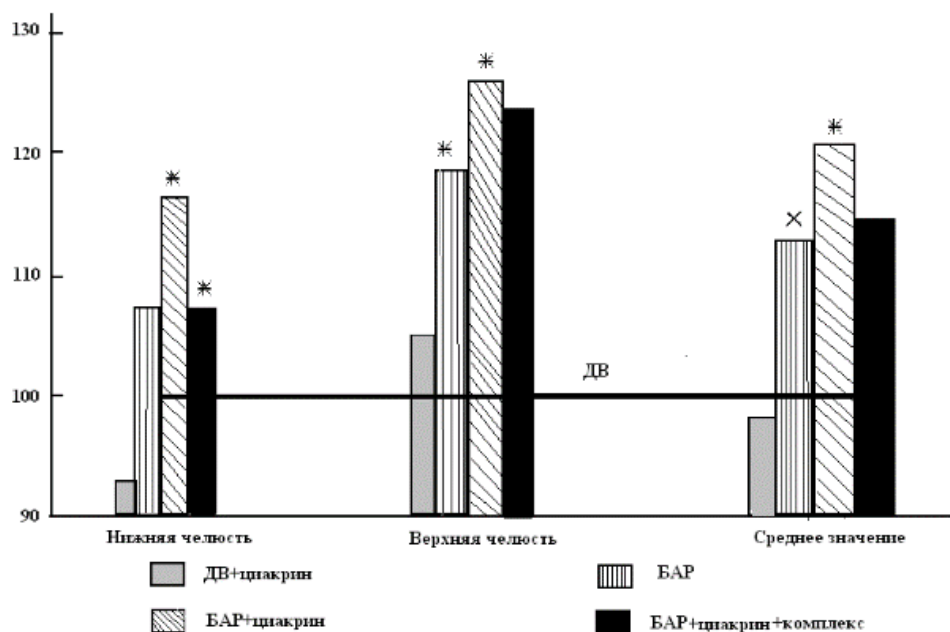
probe: per 1 kg of live weight - 1 α -hydroxycholecalciferol - 0.0018 μ g; α -tocopherol acetate 0.12 g; glutamic acid - 2.85 g; CaHPO₄* H₂O - 4.90 g.

At the end of the experiment, the rats were sacrificed with total bloodletting from the heart. Having previously separated the gums and buccal mucosa, the jaws were isolated and the resorption of the periodontal bone structures was assessed [5]. The objects of biochemical studies were blood serum, liver, gums, bone of the alveolar bone of rats. The level of lipid peroxidation (LPO) was assessed by the accumulation of malondialdehyde (MDA) in all study objects [6]. In the blood serum, the content of acylhydroperoxides (AGP) of the total fraction of lipoproteins (LP) was determined [7]. The activity of the antioxidant enzyme glutathione peroxidase [8] was determined in the liver, gums, and bone of the alveolar bone.

The data obtained were processed statistically.

Research results and discussion

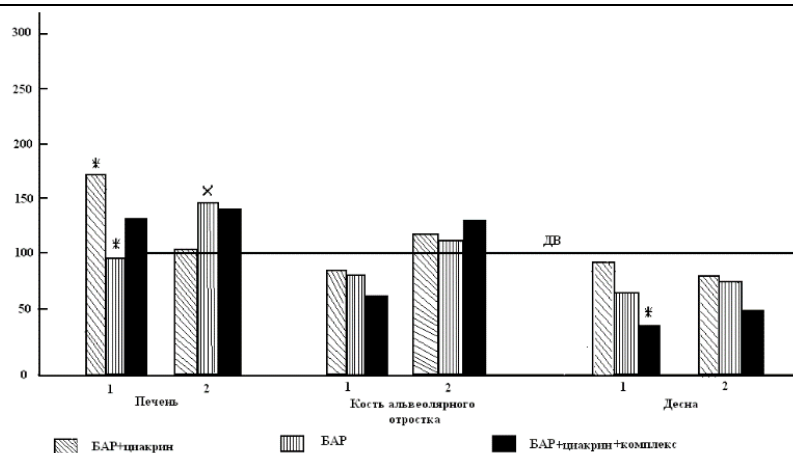
Keeping rats on an antioxidant-free diet (BAD) for 100 days increased the resorption of bone structures of the periodontium, and this effect was more pronounced on the upper jaw of rats (Fig. 1).



Additional local effects when the rats were kept on a vivarium diet did not affect the processes of osteoresorption in comparison with the data of the intact group. In rats kept on BAR with additional local exposure (BAR + cyacrine), there was a significant increase in bone resorption of the alveolar bone (on average by 22%; $p_1 = 0.003$) compared with the group of DV + cyacrine (100%) and by 8% ($p_1 > 0.05$) compared with

the group of rats kept on an antioxidant-free diet (BAD) (Fig. 1). Oral administration of the complex against the background of an antioxidant-free diet and topical cyacrine revealed a decrease (by 8%, $p_2 = 0.05$) in bone resorption of the alveolar process of the rat mandible (Fig. 1).

The results of biochemical studies are presented in the table and in Fig. 2.



With long-term polyantioxidant deficiency (BAR - 100 days), there was an increase in LPO processes in the blood and liver of rats - a tendency to an increase in the content of acylhydroperoxides in the total fraction of blood serum lipoproteins (1.6 times; $p = 0.07$) (table)

and an increase in the content of MDA in the liver (by 64%; $p = 0.03$) relative to the intact group (Fig. 2). The activity of glutione peroxidase in the studied tissues did not change significantly (Fig. 2).

Table

LPO indices in the blood serum of rats with polyantioxidant deficiency and additional local exposure
($M \pm m$, p ; p_1 ; p_2)

Experience series	MDA (nmol / l)	AGP(units ext / ml)
1. DV	548±98	2,0±0,2
2. BAR	240±26 $p=0,013$	3,1±0,3 $p=0,07$
3. BAR + cyacrine	362±28 $p_1=0,006$	3,4±0,2
4. BAR + cyacrine + complex	278±8,3 $p_2=0,009$	2,99±0,2

Note. The reliability index p was calculated in comparison with the DV group; p_1 - compared with the BAR group; p_2 - with BAR + cyacrine group.

With oral administration of the complex against the background of an antioxidant diet (BAR) and cyacrine (topically), a significant decrease by 23% ($p_2 = 0.009$) in the MDA content was observed, which indicates its antioxidant effects. A significant significant decrease in the MDA content (by 28%; $p_2 = 0.05$) when using the complex was found in the gums. In the bone of the alveolar process, a slight decrease in this indicator was revealed (Fig. 2). In the liver, a small, albeit insignificant, increase in the MDA content was observed; the activity of glutathione peroxidase did not change significantly. It can be assumed that the administration of 1α -hydroxycholecalciferol disrupted the mechanism of inductive increase in the level of glutathione peroxidase activity in the liver, which develops in the initial period of peroxidation syndrome.

Conclusion

Studies have shown that the complex of antioxidants with 1α -hydroxycholecalciferol under systemic exposure in rats with experimental peroxidation syndrome and dental plaque modeling (topically) showed periodontal protection properties. The protective effects of the complex were manifested in the gums and buccal mucosa, as well as in its bone structures. The most important component of the drug - 1α -hydroxycholecalciferol as a result of its hydroxylation in the liver and bone tissue, gradually transforming into an active metabolite of vitamin D3 - $1,25$ -dioxcholecalciferol, restored hormonal links of regulation and metabolism of bone tissue disturbed during reproduced periodontal pathology.

List of references

1. Tarasenko L.M. Pathogenesis of periodontal damage under stress: Abstract of the thesis ... Doctor of Medical Sciences. - M., 1986.-25 p.
2. Voskresensky ON, Tkachenko EK The role of lipid peroxidation in the pathogenesis of periodontitis // Dentistry. - 1991. - No. 4. - P.6-10.
3. Voskresensky ON, Bobyrev VN. Model of experimental osteoarteriosclerosis peroxide // Questions of nutrition. - 1981. - No. 1. - P.42
4. Patent 21697 AA61K 31/195, A61K 31/355. Warehouse for prophylaxis and treatment of periodontitis / O.M. Voskresensky, E.K. Tkachenko, O.A. Bagirova, V.O. Pakhomova-Appl. 12/04/95; Publ. 01/20/98.
5. Nikolaeva A.V. Influence of some neurotropic agents on the state of periodontal tissues upon irritation of the upper cervical sympathetic zone: Abstract of the thesis .. candidate of medical sciences. - Kharkov, 1967. - 28p.
6. Steel ID Method for determination of diene conjugations of unsaturated higher fatty acids / I. Stalnaya, T. Garishvili // Modern methods of biochemistry / Ed. V.N. Orekhovich. - M. - 1977. -- S.63-64.
7. Methods for the diagnosis of metabolic disorders in atherosclerosis and differentiated use of anti-atherosclerotic drugs. Recommended method / Comp. IS HE. Voskresensky. - Poltava, 1982.-28 p.
8. A.S. 922637 USSR, MKI0133 / 48 Method for determining the activity of glutathione peroxidase in biological tissues / V. Pakhomova, N. Kozlyanina, G. Kryukova. - Publ. 04/25/82, Bul. No. 15. - 2 p.

Colloquium-journal №5(92), 2021

Część 2

(Warszawa, Polska)

ISSN 2520-6990

ISSN 2520-2480

Czasopismo jest zarejestrowany i wydany w Polsce. Czasopismo publikuje artykuły ze wszystkich dziedzin naukowych. Magazyn jest wydawany w języku angielskim, polskim i rosyjskim.

Częstotliwość: co tydzień

Wszystkie artykuły są recenzowane.

Bezpłatny dostęp do elektronicznej wersji magazynu.

Przesyłając artykuł do redakcji, autor potwierdza jego wyjątkowość i jest w pełni odpowiedzialny za wszelkie konsekwencje naruszenia praw autorskich.

Opinia redakcyjna może nie pokrywać się z opinią autorów materiałów.

Przed ponownym wydrukowaniem wymagany jest link do czasopisma.

Materiały są publikowane w oryginalnym wydaniu.

Czasopismo jest publikowane i indeksowane na portalu eLIBRARY.RU,

Umowa z RSCI nr 118-03 / 2017 z dnia 14.03.2017.

Redaktor naczelny - **Paweł Nowak, Ewa Kowalczyk**

«Colloquium-journal»

Wydrukowano w Annopol 4, 03-236 Warszawa Poland, «Interdruk»

Format 60 × 90/8. Nakład 500 egzemplarzy.

E-mail: info@colloquium-journal.org

<http://www.colloquium-journal.org/>