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ЕЖЕМЕСЯЧНЫЙ НАУЧНЫЙ ЖУРНАЛ

Медицинские новости Грузии საქართველოს სამედიცინო სიახლენი

GEORGIAN MEDICAL NEWS

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GMN: Georgian Medical News is peer-reviewed, published monthly journal committed to promoting the science and art of medicine and the betterment of public health, published by the GMN Editorial Board since 1994. GMN carries original scientific articles on medicine, biology and pharmacy, which are of experimental, theoretical and practical character; publishes original research, reviews, commentaries, editorials, essays, medical news, and correspondence in English and Russian.

GMN is indexed in MEDLINE, SCOPUS, PubMed and VINITI Russian Academy of Sciences. The full text content is available through EBSCO databases.

GMN: Медицинские новости Грузии - ежемесячный рецензируемый научный журнал, издаётся Редакционной коллегией с 1994 года на русском и английском языках в целях поддержки медицинской науки и улучшения здравоохранения. В журнале публикуются оригинальные научные статьи в области медицины, биологии и фармации, статьи обзорного характера, научные сообщения, новости медицины и здравоохранения. Журнал индексируется в MEDLINE, отражён в базе данных SCOPUS, PubMed и ВИНИТИ РАН. Полнотекстовые статьи журнала доступны через БД EBSCO.

GMN: Georgian Medical News – საქართველოს სამედიცინო სიახლენი – არის ყოველთვიური სამეცნიერო სამედიცინო რეცენზირებადი ჟურნალი, გამოიცემა 1994 წლიდან, წარმოადგენს სარედაქციო კოლეგიისა და აშშ-ის მეცნიერების, განათლების, ინდუსტრიის, ხელოვნებისა და ბუნებისმეტყველების საერთაშორისო აკადემიის ერთობლივ გამოცემას. GMN-ში რუსულ და ინგლისურ ენებზე ქვეყნდება ექსპერიმენტული, თეორიული და პრაქტიკული ხასიათის ორიგინალური სამეცნიერო სტატიები მედიცინის, ბიოლოგიისა და ფარმაციის სფეროში, მიმოხილვითი ხასიათის სტატიები.

ჟურნალი ინდექსირებულია MEDLINE-ის საერთაშორისო სისტემაში, ასახულია SCOPUS-ის, PubMed-ის და ВИНИТИ РАН-ის მონაცემთა ბაზებში. სტატიების სრული ტექსტი ხელმისაწვდომია EBSCO-ს მონაცემთა ბაზებიდან.

WEBSITE

www.geomednews.com

К СВЕДЕНИЮ АВТОРОВ!

При направлении статьи в редакцию необходимо соблюдать следующие правила:

- 1. Статья должна быть представлена в двух экземплярах, на русском или английском языках, напечатанная через полтора интервала на одной стороне стандартного листа с шириной левого поля в три сантиметра. Используемый компьютерный шрифт для текста на русском и английском языках Times New Roman (Кириллица), для текста на грузинском языке следует использовать AcadNusx. Размер шрифта 12. К рукописи, напечатанной на компьютере, должен быть приложен CD со статьей.
- 2. Размер статьи должен быть не менее десяти и не более двадцати страниц машинописи, включая указатель литературы и резюме на английском, русском и грузинском языках.
- 3. В статье должны быть освещены актуальность данного материала, методы и результаты исследования и их обсуждение.

При представлении в печать научных экспериментальных работ авторы должны указывать вид и количество экспериментальных животных, применявшиеся методы обезболивания и усыпления (в ходе острых опытов).

- 4. К статье должны быть приложены краткое (на полстраницы) резюме на английском, русском и грузинском языках (включающее следующие разделы: цель исследования, материал и методы, результаты и заключение) и список ключевых слов (key words).
- 5. Таблицы необходимо представлять в печатной форме. Фотокопии не принимаются. Все цифровые, итоговые и процентные данные в таблицах должны соответствовать таковым в тексте статьи. Таблицы и графики должны быть озаглавлены.
- 6. Фотографии должны быть контрастными, фотокопии с рентгенограмм в позитивном изображении. Рисунки, чертежи и диаграммы следует озаглавить, пронумеровать и вставить в соответствующее место текста в tiff формате.

В подписях к микрофотографиям следует указывать степень увеличения через окуляр или объектив и метод окраски или импрегнации срезов.

- 7. Фамилии отечественных авторов приводятся в оригинальной транскрипции.
- 8. При оформлении и направлении статей в журнал МНГ просим авторов соблюдать правила, изложенные в «Единых требованиях к рукописям, представляемым в биомедицинские журналы», принятых Международным комитетом редакторов медицинских журналов http://www.spinesurgery.ru/files/publish.pdf и http://www.nlm.nih.gov/bsd/uniform_requirements.html В конце каждой оригинальной статьи приводится библиографический список. В список литературы включаются все материалы, на которые имеются ссылки в тексте. Список составляется в алфавитном порядке и нумеруется. Литературный источник приводится на языке оригинала. В списке литературы сначала приводятся работы, написанные знаками грузинского алфавита, затем кириллицей и латиницей. Ссылки на цитируемые работы в тексте статьи даются в квадратных скобках в виде номера, соответствующего номеру данной работы в списке литературы. Большинство цитированных источников должны быть за последние 5-7 лет.
- 9. Для получения права на публикацию статья должна иметь от руководителя работы или учреждения визу и сопроводительное отношение, написанные или напечатанные на бланке и заверенные подписью и печатью.
- 10. В конце статьи должны быть подписи всех авторов, полностью приведены их фамилии, имена и отчества, указаны служебный и домашний номера телефонов и адреса или иные координаты. Количество авторов (соавторов) не должно превышать пяти человек.
- 11. Редакция оставляет за собой право сокращать и исправлять статьи. Корректура авторам не высылается, вся работа и сверка проводится по авторскому оригиналу.
- 12. Недопустимо направление в редакцию работ, представленных к печати в иных издательствах или опубликованных в других изданиях.

При нарушении указанных правил статьи не рассматриваются.

REQUIREMENTS

Please note, materials submitted to the Editorial Office Staff are supposed to meet the following requirements:

- 1. Articles must be provided with a double copy, in English or Russian languages and typed or computer-printed on a single side of standard typing paper, with the left margin of 3 centimeters width, and 1.5 spacing between the lines, typeface Times New Roman (Cyrillic), print size 12 (referring to Georgian and Russian materials). With computer-printed texts please enclose a CD carrying the same file titled with Latin symbols.
- 2. Size of the article, including index and resume in English, Russian and Georgian languages must be at least 10 pages and not exceed the limit of 20 pages of typed or computer-printed text.
- 3. Submitted material must include a coverage of a topical subject, research methods, results, and review.

Authors of the scientific-research works must indicate the number of experimental biological species drawn in, list the employed methods of anesthetization and soporific means used during acute tests.

- 4. Articles must have a short (half page) abstract in English, Russian and Georgian (including the following sections: aim of study, material and methods, results and conclusions) and a list of key words.
- 5. Tables must be presented in an original typed or computer-printed form, instead of a photocopied version. Numbers, totals, percentile data on the tables must coincide with those in the texts of the articles. Tables and graphs must be headed.
- 6. Photographs are required to be contrasted and must be submitted with doubles. Please number each photograph with a pencil on its back, indicate author's name, title of the article (short version), and mark out its top and bottom parts. Drawings must be accurate, drafts and diagrams drawn in Indian ink (or black ink). Photocopies of the X-ray photographs must be presented in a positive image in **tiff format**.

Accurately numbered subtitles for each illustration must be listed on a separate sheet of paper. In the subtitles for the microphotographs please indicate the ocular and objective lens magnification power, method of coloring or impregnation of the microscopic sections (preparations).

- 7. Please indicate last names, first and middle initials of the native authors, present names and initials of the foreign authors in the transcription of the original language, enclose in parenthesis corresponding number under which the author is listed in the reference materials.
- 8. Please follow guidance offered to authors by The International Committee of Medical Journal Editors guidance in its Uniform Requirements for Manuscripts Submitted to Biomedical Journals publication available online at: http://www.nlm.nih.gov/bsd/uniform_requirements.html http://www.icmje.org/urm_full.pdf
- In GMN style for each work cited in the text, a bibliographic reference is given, and this is located at the end of the article under the title "References". All references cited in the text must be listed. The list of references should be arranged alphabetically and then numbered. References are numbered in the text [numbers in square brackets] and in the reference list and numbers are repeated throughout the text as needed. The bibliographic description is given in the language of publication (citations in Georgian script are followed by Cyrillic and Latin).
- 9. To obtain the rights of publication articles must be accompanied by a visa from the project instructor or the establishment, where the work has been performed, and a reference letter, both written or typed on a special signed form, certified by a stamp or a seal.
- 10. Articles must be signed by all of the authors at the end, and they must be provided with a list of full names, office and home phone numbers and addresses or other non-office locations where the authors could be reached. The number of the authors (co-authors) must not exceed the limit of 5 people.
- 11. Editorial Staff reserves the rights to cut down in size and correct the articles. Proof-sheets are not sent out to the authors. The entire editorial and collation work is performed according to the author's original text.
- 12. Sending in the works that have already been assigned to the press by other Editorial Staffs or have been printed by other publishers is not permissible.

Articles that Fail to Meet the Aforementioned Requirements are not Assigned to be Reviewed.

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რედაქციაში სტატიის წარმოდგენისას საჭიროა დავიცვათ შემდეგი წესები:

- 1. სტატია უნდა წარმოადგინოთ 2 ცალად, რუსულ ან ინგლისურ ენებზე,დაბეჭდილი სტანდარტული ფურცლის 1 გვერდზე, 3 სმ სიგანის მარცხენა ველისა და სტრიქონებს შორის 1,5 ინტერვალის დაცვით. გამოყენებული კომპიუტერული შრიფტი რუსულ და ინგლისურენოვან ტექსტებში Times New Roman (Кириллица), ხოლო ქართულენოვან ტექსტში საჭიროა გამოვიყენოთ AcadNusx. შრიფტის ზომა 12. სტატიას თან უნდა ახლდეს CD სტატიით.
- 2. სტატიის მოცულობა არ უნდა შეადგენდეს 10 გვერდზე ნაკლებს და 20 გვერდზე მეტს ლიტერატურის სიის და რეზიუმეების (ინგლისურ,რუსულ და ქართულ ენებზე) ჩათვლით.
- 3. სტატიაში საჭიროა გაშუქდეს: საკითხის აქტუალობა; კვლევის მიზანი; საკვლევი მასალა და გამოყენებული მეთოდები; მიღებული შედეგები და მათი განსჯა. ექსპერიმენტული ხასიათის სტატიების წარმოდგენისას ავტორებმა უნდა მიუთითონ საექსპერიმენტო ცხოველების სახეობა და რაოდენობა; გაუტკივარებისა და დაძინების მეთოდები (მწვავე ცდების პირობებში).
- 4. სტატიას თან უნდა ახლდეს რეზიუმე ინგლისურ, რუსულ და ქართულ ენებზე არანაკლებ ნახევარი გვერდის მოცულობისა (სათაურის, ავტორების, დაწესებულების მითითებით და უნდა შეიცავდეს შემდეგ განყოფილებებს: მიზანი, მასალა და მეთოდები, შედეგები და დასკვნები; ტექსტუალური ნაწილი არ უნდა იყოს 15 სტრიქონზე ნაკლები) და საკვანძო სიტყვების ჩამონათვალი (key words).
- 5. ცხრილები საჭიროა წარმოადგინოთ ნაბეჭდი სახით. ყველა ციფრული, შემაჯამებელი და პროცენტული მონაცემები უნდა შეესაბამებოდეს ტექსტში მოყვანილს.
- 6. ფოტოსურათები უნდა იყოს კონტრასტული; სურათები, ნახაზები, დიაგრამები დასათაურებული, დანომრილი და სათანადო ადგილას ჩასმული. რენტგენოგრამების ფოტოასლები წარმოადგინეთ პოზიტიური გამოსახულებით tiff ფორმატში. მიკროფოტო-სურათების წარწერებში საჭიროა მიუთითოთ ოკულარის ან ობიექტივის საშუალებით გადიდების ხარისხი, ანათალების შეღებვის ან იმპრეგნაციის მეთოდი და აღნიშნოთ სუ-რათის ზედა და ქვედა ნაწილები.
- 7. სამამულო ავტორების გვარები სტატიაში აღინიშნება ინიციალების თანდართვით, უცხოურისა უცხოური ტრანსკრიპციით.
- 8. სტატიას თან უნდა ახლდეს ავტორის მიერ გამოყენებული სამამულო და უცხოური შრომების ბიბლიოგრაფიული სია (ბოლო 5-8 წლის სიღრმით). ანბანური წყობით წარმოდგენილ ბიბლიოგრაფიულ სიაში მიუთითეთ ჯერ სამამულო, შემდეგ უცხოელი ავტორები (გვარი, ინიციალები, სტატიის სათაური, ჟურნალის დასახელება, გამოცემის ადგილი, წელი, ჟურნალის №, პირველი და ბოლო გვერდები). მონოგრაფიის შემთხვევაში მიუთითეთ გამოცემის წელი, ადგილი და გვერდების საერთო რაოდენობა. ტექსტში კვადრატულ ფჩხილებში უნდა მიუთითოთ ავტორის შესაბამისი N ლიტერატურის სიის მიხედვით. მიზანშეწონილია, რომ ციტირებული წყაროების უმეტესი ნაწილი იყოს 5-6 წლის სიღრმის.
- 9. სტატიას თან უნდა ახლდეს: ა) დაწესებულების ან სამეცნიერო ხელმძღვანელის წარდგინება, დამოწმებული ხელმოწერითა და ბეჭდით; ბ) დარგის სპეციალისტის დამოწმებული რეცენზია, რომელშიც მითითებული იქნება საკითხის აქტუალობა, მასალის საკმაობა, მეთოდის სანდოობა, შედეგების სამეცნიერო-პრაქტიკული მნიშვნელობა.
- 10. სტატიის ბოლოს საჭიროა ყველა ავტორის ხელმოწერა, რომელთა რაოდენობა არ უნდა აღემატებოდეს 5-ს.
- 11. რედაქცია იტოვებს უფლებას შეასწოროს სტატია. ტექსტზე მუშაობა და შეჯერება ხდება საავტორო ორიგინალის მიხედვით.
- 12. დაუშვებელია რედაქციაში ისეთი სტატიის წარდგენა, რომელიც დასაბეჭდად წარდგენილი იყო სხვა რედაქციაში ან გამოქვეყნებული იყო სხვა გამოცემებში.

აღნიშნული წესების დარღვევის შემთხვევაში სტატიები არ განიხილება.

Содержание:

Ahmad Ali Alrasheedi. THE PREVALENCE OF COVID-19 IN THE COUNTRIES OF THE GULF COOPERATION COUNCIL: AN EXAMINATION AFTER THREEYEARS
Kordeva S, Cardoso JC, Tchernev G. MULTIFOCAL FIXED DRUG ERUPTION MIMICKING ACQUIRED DERMAL MELANOCYTOSIS
Oksana Matsyura, Lesya Besh, Zoryana Slyuzar, Olena Borysiuk, Olesia Besh, Taras Gutor. ARTIFICIAL VENTILATION OF THE LUNGS IN THE NEONATAL PERIOD: LONG-TERM OUTCOMES
Tchernev G, Kordeva S, Lozev I. METATYPICAL BCCS OF THE NOSE TREATED SUCCESSFULLY VIA BILOBED TRANSPOSITION FLAP: NITROSAMINES IN ACES (ENALAPRIL), ARBS (LOSARTAN) AS POSSIBLE SKIN CANCER KEY TRIGGERING FACTOR
Zahraa M Alzubaidi, Wafaa M. A. Al-attar. NURSES' KNOWLEDGE ABOUT HEPATITIS C VIRUS IN BAGHDAD TEACHING HOSPITALS: A CROSS-SECTIONAL STUDY26-31
Theresa Semmelmann, Alexander Schuh, Horst Rottmann, Reinhard Schröder, Christopher Fleischmann, Stefan Sesselmann. HOW TO AVOID FRACTURE OF THE LOCKING SCREW IN MODULAR REVISION ARTHROPLASTY OF THE HIP USING THE MRP TITAN REVISION SYSTEM
Siranush Mkrtchyan, Razmik Dunamalyan, Ganna Sakanyan, Hasmik Varuzhanyan, Sona Hambardzumyan, Marine Mardiyan. EFFECT OF CHRONIC PERIODONTITIS ON HEALTH-RELATED QUALITY OF LIFE AND ANXIETY AMONG PATIENTS IN YEREVAN, ARMENIA
Raghad O Aldabbagh, Marwah abdulmelik Alshorbaji, Yahya Mohammed Alsabbagh. THE PHYSICAL AND PSYCHOLOGICAL EFFECTS OF MOBILE GAMES ON CHILDREN IN MOSUL/IRAQ
Bukia N.G., Butskhrikidze M.P., Machavariani L.P., Svanidze M.J., Nozadze T.N. ELECTRIC-MAGNETIC STIMULATION PREVENTS STRESS-INDUCED DETERIORATION OF SPATIAL MEMORY
Marko Kozyk, Adam Wahl, Kateryna Strubchevska, Kolosova Iryna, Shatorna Vira. CHRONIC EFFECTS OF CADMIUM CHLORIDE ON RAT EMBRYOGENESIS
Labeeb H. Alsadoon, Kassim Salih Abdullah. COMPARATIVE EFFECT OF INSULIN, GLIMEPIRIDE, AND METFORMIN ON INFLAMMATORY MARKERS IN TYPE 2 DIABETES MELLITUS
Miloslav Doul, Philipp Koehl, Marcel Betsch, Stefan Sesselmann, Alexander Schuh. RETURN TO SPORT AFTER SURGICAL TREATED TIBIAL PLATEAU FRACTURES
Zaid Saaduldeen Khudhur, Uday Hani Mohammad, Nooman Hadi Saeed. HAEMATOSPERMIA: CAUSES AND ASSOCIATED CHANGES IN SEMEN ANALYSIS IN NORTH OF IRAQ
Prots H, Rozhko M, Paliichuk I, Nychyporchuk H, Prots I. STUDY OF BONE RESORPTION AS A RISK FACTOR IN DENTAL IMPLANTATION IN PATIENTS WITH GENERALIZED PERIODONTITIS
Teimuraz Lezhava, Tinatin Jokhadze, Jamlet Monaselidze, Tamar Buadze, Maia Gaiozishvili, Tamar Sigua, Inga Khujadze, Ketevan Gogidze, Nano Mikaia, Nino Chigvinadze. EPIGENETIC MODIFICATION UNDER THE INFLUENCE OF PEPTIDE BIOREGULATORS ON THE "OLD" CHROMATIN79-83
Mudrenko I.G., Kolenko O.I., Kiptenko L.I., Lychko V.S., Sotnikov D.D., Yurchenko O.P. THE PROGRAM OF THE COMPLEX DIFFERENTIATED MEDICAL AND PSYCHOLOGICAL REHABILITATION OF THE PATIENTS WITH SUICIDAL BEHAVIOUR IN DEMENTIA
Tchernev G, Kordeva S. MULTIPLE BCCS AND DYSPLASTIC NEVI AFTER ACE INHIBITORS (ENALAPRIL/PERINDOPRIL): THE ROLE OF NITROSAMINE CONTAMINATION/AVAILABILITY AS SUBSTANTIAL SKIN CANCER TRIGGERING FACTOR90-94
Lyazzat T. Yeraliyeva, Assiya M. Issayeva. CHANGES IN DEATH RATES FROM LOWER RESPIRATORY INFECTIONS BETWEEN 1991 AND 2019 IN THE REPUBLIC OF KAZAKHSTAN
Rocco De Vitis, Marco Passiatore, Giovanni Barchetti, Isabella Ceravolo, Luigi M. Larocca, Marta Starnoni, Francesco Federico, Federica Castri, Giuseppe Taccardo. PATTERN OF A PRIMARY B-CELL LYMPHOMA IN ULNAR NERVE: INTRANEURAL OR EXTRANEURAL99-103
Bazargaliyev Ye, Makashova M, Kudabayeva Kh, Kosmuratova R. EPIDEMIOLOGY OF GENES ASSOCIATED WITH OBESITY IN ASIAN POPULATION. LITERATURE REVIEW104-110

Samsonia M.D, Kandelaki M.A, Baratashvili N.G, Gvaramia L.G. NEUROPROTECTIVE AND ANTIOXIDANT POTENTIAL OF MONTELUKAST-ACETYLCYSTEINE COMBINATION THERAPY FOR BRAIN PROTECTION IN PATIENTS WITH COVID-19 INDUCED PNEUMONIA
Condé Kaba, Carlos Othon Guelngar, Barry Souleymane Digué, Keita Karinka, Diallo Mamadou Hady, Keita Fatoumata Binta, Cissé Fodé Abass.
ALZHEIMER'S DISEASE, AN ASSOCIATION OR A COMPLICATION OF PAGET'S DISEASE? STUDY OF AN OBSERVATION IN GUINEA
Condé Kaba, Keita Karinka, Carlos Othon Guelngar, Diallo Mamadou Hady, Keita Fatoumata Binta, Cissé Fodé Abass. CLINICAL AND IMAGING ASPECTS OF TALAR OSTEOCHONDRITIS: A CASE REPORT FROM GUINEA
Fishchenko Iakiv, Kravchuk Lyudmila, Kormiltsev Volodymyr, Saponenko Andrey, Kozak Roman. THE USE OF RADIOFREQUENCY NEUROABLATION IN THE TREATMENT OF OMALGIA IN PATIENTS WITH SHOULDER JOINT ARTHROSIS
V.V. Talash, I.P. Katerenchuk, Iu.A. Kostrikova, T.I. Yarmola, G.L. Pustovoit, L.A. Tkachenko. TERATOMAL NEOPLASMS OF THE PERICARD: THE PROBLEM AND REALITIES (CLINICAL CASE)

THE PROGRAM OF THE COMPLEX DIFFERENTIATED MEDICAL AND PSYCHOLOGICAL REHABILITATION OF THE PATIENTS WITH SUICIDAL BEHAVIOUR IN DEMENTIA

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Abstract.

The conceptual model of rehabilitation and suicidal behaviour prevention in dementia, considering the multiple components, is presented in the article. The developed program of the complex differentiated medical and psychological rehabilitation and suicidal behaviour prevention (MPRS BP) in patients with dementia is aimed at the preventive measures of the suicidal behaviour (SB) through the depressive symptoms reduction, patient's mind and cognitive status stabilization, self-aggression decreases, social functioning and independence increase in patients with dementia. The individual approach to the prevention of SB in patients with dementia considered the SB factors (extraand intrapersonal), SB formation mechanisms (cognitive, depressive, and psychological), clinical psychopathological SB correlators (especially gender-based) in different types of dementia. Offered MPRS BP program is based on the complex approach to rehabilitation. It combines pharmacotherapy, psychotherapy (crisis therapy, rational psychotherapy, art therapy, family psychotherapy), psychoeducation, psychological training (cognitive, communicative and social skills training) keeping to the principles of systematicity, complexity, integrity, phasing, personal interventions, provision of assistance in time. According to the approbation results of the MPRS BP program in dementia, its high efficiency was demonstrated compared to the traditional treatment programs of this category of patients.

Key words. Dementia, Alzheimer's disease, vascular dementia, combined dementia, suicidal behaviour, prevention, the program of medical and psychological rehabilitation of suicidal behaviour.

Introduction.

Suicide prevention is one of the main directions of mental health services in many countries of the world [1]. Ukraine is one from the European countries with an average suicide rate. Suicide is the principle death-rate cause among people of different age group. Declining years is one of the peaks by suicide frequency [2]. Considering population aging around the world on the whole and Ukraine, especially, dementia as an agerelated disease, gas high suicidal potential. Medical expenses for dementia are exceptionally high and costs in the USA 40 thousand dollars a year per patient. Violation of high mental function is the guiding symptoms of dementia, which leads to stable social and everyday life disadaptation of the individual. Along with cognitive deficiency more than 50% of dementia have psychotic (hallucinations and delusion), affective (anxiety, depression, emotional instability) and behavioral disorders (aggression, disinhibition, agitation, SB, vagrancy, eating disorder). The prevalence of depressions among patients with dementia amounts to 30-40%. Depressive symptoms presence in patients with dementia significantly reduce the quality of life and increase the risk of SB. Depressive violation with dementia is a prognostically negative sign of activity restriction in everyday life, disability and early death [3-15]. Dementia frequently goes with somatic and neurology disease, which are typical for elderly and senile people, and with complex of human psychological, experience, associated with the aging and the death expectations, self-service disability. Intellectual insolvency realization is complementary trigger of SB in dementia [11].

Considering steadily increase in the percentage of older-age people groups in Ukraine, increased disease incidence in this age group with dementia, comorbidity, dementia with wide range of behavioral disorder, the problem of identifying the SB, medico-psychological rehabilitation and prevention MPRS BP among these patients has high activity and importance.

The purpose of the research.

The purpose of this research is based on detailed sociodemographic, clinical-anamnestic, clinical-psychopathological, personal-psychological predictors of SB with different types of dementia to develop complex program of (MPRS) BP considering pathogenetic mechanisms it formed with different types of dementia (Alzheimer's disease, vascular dementia, combined dementia).

Materials and Methods.

The work is based on the results of a study of 208 patients with dementia, particularly, 75 patients with Alzheimer's disease (AD), 73 patients with vascular dementia (VD) and 60 patients with combined dementia. Among the examined groups of patients were identified by the factor of presence or absence of the SB in past history and by clinical-psychopathological examination. The main group included 105 patients with SB and in the control group – 103 patients without symptoms of the SB. Groups that have SB and without it were comparison groups. Among the patients with AD, the main group consisted of 36 patients, comparison group – 39 patients; with VD – 39 patients is the main group and 34 – in the control group; with combined dementia – 30 patients form the main group and 30 – in the control group.

In the main group of patients with AD in 58,33% was defected dementia with a lane onset (F00.1), in 27,78% – AD atypical type (F00.2) and in 13,89% – dementia with early onset (F00.0). In the control group of patients with early onset was 53,85%, with late onset -35,90%, with AD atypical type -10,26%.

Among the patients with VD in the main group 33,33% they were diagnosed with subcortical VD (F01.2), 25,64% – multi-infarct VD (F01.1), 15,38% – VD with acute onset of disease (F01.0), by 15,38% – combined (F01.3) and unspecified VD (F01.9). In the control group of patients with multi-infarct VD was 38,24%, with acute onset of VD – 23,53%, with unspecified VD – 14,71%, with subcortical and combined VD – by 11,76%, respectively.

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In the main group of patients with combined dementia was a combination of dementia with AD with early onset and with subcortical VD (F00.0/F01.2) – 33,33%, a combination of dementia with late onset with AD and subcortical VD (F00.1/F01.2) – 16,67%; a combination of multi-infarct (F00.1/F01.1) – 16,67% and unspecified VD (F00.1/F01.9) – 16,67%, and 16,67% of patients had a combination with atypical dementia with AD and with multi-infarct VD (F00.2/F01.1). In the control group of patients with combined dementia – 20,00%, and in 20,00% of patients was diagnosed dementia with AD with late onset and subcortical VD.

The methods of study included following blocks: clinicalpsychopathological, psychodiagnostic, psychometric statistical method results processing. Clinicalpsychopathological method provided for the collection of complaints, anamnestic data, clinical interview realization, symptoms and syndromes estimation in the dynamics and supplemented with usage of psychometric methods: Mini Mental State Examination (Mini Mental State Examination -MMSE, M.F. Folstein, S.E. Folstein, P.R. Hugh, 1975); Clinical Dementia Ratingscale (Clinical Dementia Ratingscale - CDR, Morris, 1993); The Sad Persons Scal (The Sad Persons Scale) (Patterson et al., 1983); Los-Angeles Suicide Risk Scale (A.I. Nechiporenko, V.K. Shamrai, 2007); Hamilton Rating Scale for Depression (HDRS, M. Hamilton, 1967); Barthel ADL Index (Barthel ADL Index, по F. Mahoney, D. Barthel, 1965). Psychodiagnostics method was implemented using a Bass-Darky Test (I.F. Diakonov, B.V. Ovchinnikova, 2008).

Also, evaluate diagnostic value of receiving results (diagnostic coefficients (DC)) and informative measures (IM) Kullback (E.V. Hubler, A.A. Genkin, 1973; E.V. Sydorenko, 2001).

Information statistical processing was carried out using the package of Statistica Electronic Futures 6,0 and Excel. To determine the relationship between the parameters that were studied, the correlation analysis method was used. Clinic and static analysis was carried out using analysis of variance (Student's t-test was used).

To identify reliable differences between compared groups, the Student-Fisher test (t) was used:

$$t = \frac{M_1 + M_2}{\sqrt{m_1^2 + m_2^2}} \tag{1}$$

To determine the interrelations between parameters that were studied, the method of correlation analysis was used, in order to determine the Pearson's correlation coefficient (r) was determined with the calculation of the direction, strength and significance of the interrelations.

Only true value (p \le 0,05) were taken into account and the strength of correlations of three levels was assessed: r=0,1–0,3 low correlation; r=0,3–0,5 – medium; r=0,5–0,1 – high.

The diagnostic value of the obtained results (diagnostic coefficients (DC)) and measures of information value (MI) of Kullback were also evaluated [15]. Calculations were performed using the formulas:

$$DK = \log 2 \times (pi1 \div pi2) \tag{2}$$

$$MI = (pil - pi2) \times DK \tag{3}$$

pil-is the frequency of occurrence sign in men, pi2-in women.

Results and Discussion.

The developed program of the complex differentiated MPRS BP in patients with dementia considering mechanisms and predictors of SB, determined by the results of the complex analysis. The main purpose of the developed complex is prevention of the SB through the depressive symptoms reduction, mind and cognitive status of patient stabilization, self-aggression decreases, social functioning and independence in patients with dementia (reduction of effect of intra- and extra personal factors).

Proposed MPRS BP program is based on the complex approach to rehabilitation and combines pharmacotherapy, psychotherapy (crisis therapy, rational therapy, art therapy, family therapy), psychoeducation, psychological training (cognitive, communicative and social skills training) keeping to the principles of systematicity, complexity, integrity, phasing; differentiated character of influence, timeliness assistance.

In the process of program realization, the following stages have been identified:

I – diagnostic stage; II – active intervention stage (formation of motivation for treatment, stabilization of psycho emotional state, therapeutic intervention and psychological «restructuring»); III – psycho prophylactic stage (stage of supportive treatment and prevention).

The diagnostic stage. Conducted clinical-anamnestic, clinical-psychopathological, psychometric (with Hamilton, Barthel, MMSE, CDR, and Los-Angeles SR scales), psychodiagnostic research (by Bass – Darky methodic) and results of correlation analysis (r) made it possible to determine the predictors of SB in patients with different types of dementia, based on effect of intra- extra personal factors, also evaluated the diagnostic value of obtained results (diagnostic coefficients (DC) (table 1)).

The predictors of SB in AD were such clinicalpsychopathological characteristics: light degree of dementia $(33,33\%, p \le 0.005)$, depression intensity $(1.78\pm 1.24 \text{ score},$ $p \le 0.025$), prevalence of its agitated type (32,69%, $p \le 0.05$), suicidal intentions (2,56 \pm 1,27 score, p \leq 0,0001), multiple awaking at night (1,22±0,80 score, p≤0,01); personal characteristics: irrigation, touchiness, negativism and jealousy $((51,52\%, p \le 0.0001; 58,33\%, p \le 0.05; 53,33\%, p \le 0.0001$ and 56,67%, p≤0,0001) respectively), guilt-feelings (77,78%, $p \le 0.0001$); anamnestic: depressive episodes in the past $(4,67\pm4,28 \text{ score}, p\leq0,0001)$; mental trauma factors: «lifethreatening disease» (5,67±4,17 score, p≤0,0001), «loss of job, money or status» (r=0,616), recurrence of stress (r=0,539); characteristics of social functioning: light degree of dependence from others (44,44%, $p \le 0.0005$), absence of emotions (5,67±3,88 score, p \leq 0,0001), financial (4,67 \pm 4,06 score, p \leq 0,0001) and communicative $(4,22\pm4,22 \text{ score}, p\leq0,0001)$ support source.

Table 1. Differentiated predictors of suicidal behavior in patients with different types of dementia.

The predictors of suicidal behavior	Alzheimer's disease	Vascular dementia	Combined dementia
Variant of dementia	 dementia in AD with late onset (DC=2,11) dementia in AD atypical or combined (DC=4,33) 	• subcortical VD (DC=4,52)	 combination of clinical symptoms if dementia in AD with early onset and subcortical VD (DC=5,23). combination of clinical symptoms of dementia in AD with late onset and with unspecified VD (DC=2,73). combination of clinical symptoms atypical dementia in AD and multiinfarct VD (DC=3,10)
Cognitive disorders characteristics	• light degree of dementia and individual signs of cognitive deficit (33,33%; DC=5,79)	light (r=0,552) and moderate level of dementia intensity (r=0,458)	• hard level of dementia with significant disturbances in concentration (p≤0,05), memory (p≤0,0001) and executive functions (p≤0,005)
Clinical- psychopathological predictors	 prevalence of agitated type of depression (r=0,646). guilt-feelings (r=0,694). suicidal intentions (r=0,887). multiple awaking at night (r=0,710). 	 prevalence of somatized type of depression (r=0,558). disorganization and disorientation (p≤0,01). irritation and jealousy (r=0,817). intensity and anxiety (p≤0,005). suicidal intentions (p≤0,0001). multiple awaking at night (r=0,527). 	 prevalence of somatized type of depression (r=0,528). suicidal intentions. early insomnia (r=0,870). paranoid symptoms (p≤0,05). presence and severity of daily fluctuations (r=0,602). feeling of hopelessness (r=0,613). presence of chronic diseases (r=0,630).
Mental trauma factors	 loss of job, money, and status(r=0,616). recurrence of stress (r=0,539). life-threatening disease (r=0,727) 	 loss of a loved one due to death or divorce (r=0,552). loss of job, money and status (r=0,562). life-threatening disease (p≤0,01). 	 loss of a loved one due to death or divorce (p≤0,0001). changes in life or environment (r=0,610).
Anamnestic predictors	• depressive episodes in the past (r=0,605)	burdened suicidal history(r=0,550)	 burdened suicidal history (p≤0,01). depressive episodes in the past (p≤0,0025)
Social functioning characteristics	 predominance of light degree of dependence from others (p≤0,0005); absence of emotional, financial and communicative support sources (p≤0,0001) 	• absence of financial support (r=0,690)	 absence of financial and emotional support (r=0,586). well-defined dependence from others(p≤0,05)
Personal characteristics	 irritation (51,52%). touchiness (r=0,452). negativism (58,33%) and jealousy (53,33%). guilt-feelings (r=0,438) 	 prevalence of physical (56,36%) and indirect aggression(57,58%). irritation (p≤0,0001). Touchiness (r=0,386) 	 prevalence of indirect aggression (r=0,715). guilt-feelings (r=0,688);

The predictors of SB in VD were clinical-psychopathological characteristics: somatized type of depression $(36,22\%, p\le0,05)$, disorganization and disorientation $((5,51\pm3,98) \text{ score}, p\le0,01)$, irritation and jealousy $((4,62\pm2,56) \text{ score}, p\le0,0001)$, intensity and anxiety $((3,74\pm2,76) \text{ score}, p\le0,005)$, suicidal intentions $((1,85\pm1,53) \text{ score}, p\le0,0001)$, genital symptoms $((1,10\pm0,97) \text{ score}, p\le0,025)$, multiple awaking at night $((1,36\pm0,74) \text{ score}, p\le0,05)$; personal characteristics: prevalence of physical (56,36%) indirect aggression (57,58%) $((p\le0,025 \text{ and } p\le0,05) \text{ respectively})$, and also touchiness $(76,14\%, p\le0,01)$ and irritation $(60,33\%, p\le0,01)$; anamnestic: burdened suicidal history (r=0,550); factors of mental trauma: «life-threatening

disease» ($(4,77\pm4,48)$ score, p $\le0,01$), «loss of a loved one due to death or divorce» (r=0,552), «loss of job, money or status» (r=0,562); characteristics of social functioning: absence of financial support (r=0,690).

The predictors of SB in combined dementia were clinical-psychological characteristics VD with significant impairment of concentration (20,00%, p \leq 0,05) and executive function (39,00%, p \leq 0,005), torpid type of depression (42,42%, p \leq 0,05), difficulty falling asleep ((1,33 \pm 0,75) score, p \leq 0,0001), paranoid symptoms((1,83 \pm 1,70) score, p \leq 0,05), feeling of hopelessness and helplessness ((5,67 \pm 4,13) score, p \leq 0,005), somatic anxiety (1,67 \pm 1,26 score, p \leq 0,0001); personal characteristics:

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prevailing of indirect (63,89%, p \leq 0,01) aggression and guilt-feelings (83,33%, p \leq 0,0001; anamnestic: burdened suicidal history ((1,50 \pm 1,41 score), p \leq 0,01) and depressive episodes in the past ((3,00 \pm 2,31) score, p \leq 0,0025); factors of mental trauma: «loss of a loved one due to death or divorce» ((4,50 \pm 3,57) score, p \leq 0,001); characteristics of functioning: absence of emotional ((3,33 \pm 3,13) score, p \leq 0,001), financial support ((2,83 \pm 2,08) score, p \leq 0,025), well-defined dependence from others (33,33%, p \leq 0,05).

The predictors of SB in patients with different variants of dementia reflected conceptual model of suicidogenesis. Established, that predictors of SB in dementia form a compound multifactorial complex, which contains extra- and intrapersonal factors of SB risk. Intrapersonal factors contain clinical-psychopathological personal-psychological and anamnestic characteristics in patients with SB, and extra personal factors of mental trauma, indices of communicative dysfunction and social functioning.

These predictors of SB were considered by development of a program of the complex differentiated MPRS BP in patients with dementia.

Based on the received data were determined psychopathological mechanisms of SB forming depending on the form and severity of dementia, existing additional symptoms, namely: depressive, psychotic and cognitive. It has been proven, that in dementia in consequence of AD, SB informed mainly of depressive and cognitive mechanisms (38,89% и 47,22% respectively); in SB – by psychotic and cognitive mechanisms (35,90% и 41,03% respectively); in combined dementia implemented all SB mechanisms (cognitive, depressive and psychotic) (33,33%; 36,67% and 30,00% respectively). The SB mechanisms in patients with dementia were considered when drawing up a plan of therapeutic and rehabilitation interventions.

The second stage is the active intervention stage. At this stage, extensive biological, psychotherapeutic, socio-psychological interventions were carried out aimed at reducing the SB, clinical and psychopathological manifestations of dementia, and the formation of compensatory mechanisms that contribute to the readaptation of the patient.

The individualized system of psychotherapeutic and psychosocial intervention included rational and family psychotherapy, cognitive training, self-service training and psychoeducation in patients with the cognitive mechanism of SB; for patients with a depressive mechanism of SB - art therapy and family psychotherapy, communicative training and psychoeducation; with a psychotic mechanism – crisis psychotherapy and art therapy, social skills training and psychoeducational sessions.

Crisis psychotherapy is carried out in the most severe state of SB, the main purpose of which is to stop acute psychopathological disorders and auto-aggressive behavior, to stabilize the mental state. These changes were achieved due to the disclosure of suicidal experiences, mobilization of the patient's resource capabilities, correction of non-adaptive attitudes [2,10]. Crisis psychotherapy was carried out individually, once a day for one hour, for three days, followed by a transition to group supportive psychotherapy.

Rational psychotherapy (Pinsker & Rosenthal, 1988; Rosenthal et al. 1999) is a form of treatment for persons with disabling and chronic mental illness, the main role of the psychotherapist and the group, in which is the preservation and strengthening of the individual's potential for a better and more mature functioning of the "I" in the process, both adaptation and development [8]. The group form of work made it possible to improve communicative relationships and the ability to communicate. Rational psychotherapy was carried out three times a week for three months.

For patients with SB in dementia, was developed and implemented a course of art therapy activities which was based on generally accepted methodological principles of art therapy [2,3,10]. The course of art therapy was carried out three times a week for 1,5 hours. Number of sessions – 10. The structure of each art therapy session consisted of two main parts: nonverbal (drawing, painting) (70% of the session) and verbal (verbal discussion, interpretation) (30% of the session). We used the mechanisms of non-verbal self-expression and visual communication. Art therapy contributed to the expression of emotions and feelings, the search for new forms of interaction with the world; confirmation of their individuality, uniqueness and significance; increasing adaptability.

Family psychotherapy was carried out once a week, which helped the patient and his close relatives to understand each other's point of view [4,9,12]. The therapy included work with the patient himself and members of his family. Family therapy has been used both to mobilize family help for the patient and to support family members. The goal of therapy is to eliminate emotional disturbances in the family associated with the rejection of the fact of the illness of one of the family members, help in overcoming guilt feeling and auto-aggression, and the formation of an adequate attitude towards the disease.

Cognitive training and cognitive rehabilitation were used to correct cognitive dysfunction. Cognitive training was aimed at "training" the most affected cognitive functions identified using psychological research methods. Cognitive training is a set of standardized tasks created according to each of the cognitive functions (Bahar-Fuchs et al.). We used cognitive rehabilitation (according to the ERICA method), which included exercises to improve attention, memory, speech, and/or executive functions. The method contributes to the social and professional integration of patients. The tasks were computerized and included problematic questions from daily activities. Training sessions were held 2 times a week for 40 minutes for 3 months [11].

The training of social skills was aimed at increasing the resistance of patients to stressful influences (demands of society, family conflicts), contributed to the formation of social skills (interaction with various government agencies and private institutions, distribution of the family budget, housekeeping, shopping, spending free time) and skills of interpersonal relationships (talk skills, friendships and family relationships). During social training, the patient acquires the skills to control his behavior, thoughts, feelings, to make rational decisions, and develop an adequate attitude to the disease, treatment, and life in new conditions. This type of training was conducted once a week for 40 minutes for 3 months.

Communicative training was aimed at the formation, restoration and development of communication skills in patients with dementia, as well as the acquisition of knowledge, social attitudes and experience in the field of interpersonal interaction [2]. Training groups enhance the ability of patients to communicate, expand the circle of social contacts - in groups, patients find friends, maintain relationships with them and with other participants in the training. Training sessions were held 2 times a week for one hour for 2 months.

The task of the self-service training was to inculcate self-service skills, hygiene rules, the development of fine motor skills, the formation of spatial representations. Training sessions were held once a day for 40 minutes for 2 months. Psychoeducation allows you to develop an adequate attitude to the disease, treatment, rehabilitation, as well as to master the skills of recognizing the beginning recurrence of the disease [10,12].

Pharmacotherapy was carried out differentially, considering many factors of suicidogenesis. For patients with AD with light and moderate degree of dementia, were prescribed acetylcholinesterase inhibitors (ACEI) (donepezil) as basic drugs with dose titration (5-20 mg/day), with severe dementia, a drug from the group of NMDA receptor blockers (memantine) with dose titration (5-20 mg/day) for 4-6 months [6,7].

Pathogenetic treatment of patients with VD included the combined drug cognifen (phenibut 300 mg in combination with ipidacrine 5 mg) 1 capsule 2-3 times a day or a drug from the group of NMDA receptor blockers (memantine) with dose titration (5-20 mg/day) within 2-3 months. In patients with mixed dementia, the basic treatment included ACEI (donepezil) with dose titration (5-20 mg/day) or cognifen 1 capsule 2-3 times a day for 4-6 months. Patients with dementia with a depressive mechanism of SB were prescribed: pathogenetic treatment, as well as antidepressants from the class of selective serotonin reuptake inhibitors (SSRIs) (paroxetine – 20-40 mg/day, or fluvoxamine maleate – 50-100 mg/day, or mianserin – 30 mg/day, considering tolerability for 3-4 months) [3].

Patients with dementia with a cognitive mechanism of SB without additional psychopathological symptoms were simultaneously prescribed a drug from the ACEI group (cognifen or donepezil) according to the scheme and a drug from the group of NMDA receptor blockers (memantine) with dose titration (5-20 mg/day) for 4-6 months. Patients with dementia with a psychotic mechanism of SB were prescribed: basic therapy depending on the type of dementia and risperidone – 1-2 mg/day and/or quetiapine – 25 mg at night, considering their tolerability (2-3 months).

The psychoprophylactic stage is aimed at preventing the recurrence of SB in patients with dementia, restoring broken and lost social ties, maintaining activity and self-care of patients. This task is carried out through medical, psychological, social methods of working with the patient.

Medical methods included supportive drug therapy and psychotherapy. In psychotherapy, group methods of work were used. The main goal of psychotherapeutic methods is to consolidate, developed at the previous stages, new forms of emotional, behavioral, and cognitive response to the factors that provoked the occurrence of SB. From group methods, was used the group supportive psychotherapy, focused on improving the

communicative properties of the individual, and developing effective communication between people.

The social aspect of prevention of SB in patients with dementia included social-environmental, social-everyday forms of prevention. The restoration of broken and lost social ties and the formation of new social relations were carried out by stimulating the patient to participate in various activities, such as educational, labor, leisure activities, various types of creativity, participation in the work of public organizations.

The duration of the stages of the complex differentiated program of the MPRS BP in patients with dementia depended on the severity of CD, the existing rehabilitation potential and adaptive capabilities, additional psychopathological symptoms, and environmental resources. The diagnostic stage lasted approximately 10 days until the establishment of a clinical diagnosis and included a comprehensive assessment of SR factors (suicidal risk). The stage of active therapy lasted 2-3 months until the reduction of SR and concomitant psychopathological symptoms and was aimed at stabilizing the psychological state of patients.

The psychoprophylactic stage for dementia with SB continues for life and includes supportive treatment and rehabilitation measures.

The next stage of our work was the approbation of the MPRS BP program for dementia. 199 patients with SB took part in the approbation of a complex differentiated program of the MPRS BP for patients with dementia, 107 people of which were treated in accordance with the developed program (main group), 92 people received traditional treatment (control group). The first group of patients were distributed, according to the type of dementia, as follows: in the first place – dementia, as a result of AD - 32 patients (29,9%), VD - 42 patients (39,2%), CD - 33 patients (30,8%).

The first group took a course of prevention of SB according to the developed system, the control group – a course of traditional suicide prevention.

A comparative analysis of the results of the effectiveness of preventive measures was carried out according to the following criteria:

- 1) dynamics of the mental state (recovery, improvement of the mental state, lack of positive dynamics of the mental state, worsening of the mental state).
- 2) dynamics of SR and SB (suicidal thoughts, intentions, attempts).
- 3) dynamics of depressive symptoms and aggressiveness.
- 4) evaluation of the activity of daily life.

According to the results of the approbation, Table 2 shows the indicators of the clinical effectiveness of preventive measures of SB in patients with dementia: after using the developed program for the prevention of MPRS BP in patients of the main group, 72,9% of patients were diagnosed with an improvement in their mental state, then as after the use of traditional forms of prevention, improvement of the mental state was diagnosed in only 40,2% of patients (DC=2,58; MI=0,43; p<0,001).

At the same time, in the group of patients who underwent measures according to the traditional scheme of prevention, a larger number of patients with an absence of positive dynamics was noted than in the main group (16,33 and 48,65%,

Table 2. Evaluation of the clinical effectiveness of a complex differentiated MPRS BP program in patients with dementia.

% ± m	_	
/0 ± III	abs.	$\% \pm \mathbf{m}$
6,54±2,4	2	2,17±1,53
72,9±4,32*	37	40,2±5,14*
16,8±3,63*	45	48,9±5,24*
4,67±2,05	8	8,7±2,95
	72,9±4,32* 16,8±3,63*	72,9±4,32* 37 16,8±3,63* 45

Table 3. Results of follow-up evaluation of SP in patients with dementia after the program of complex differentiated MPRP SP.

Evaluation of SB	A developed prevention system (n = 107)		7) Traditional	Traditional preventive measures (n = 92)	
Evaluation of SB	abs.	% ± m	abs.	% ± m	
SB (suicidal thoughts, intentions)	24	22,4 ± 4,05*	45	48,9±5,24*	
Suicidal attempts	7	6,54±2,4	5	13,0±3,53	
SR expression	3,8	14,0 ±3,37*	6,2	27,2±4,66*	
Notations: * – the possibility of disagreemer	nts p <0,05	'		,	

respectively, with DC=4,74; MI=0,77; p<0,001).

According to the results of the two-year follow-up, 48,9% of patients with suicidal thoughts and intentions and 13,0% with suicidal attempts were found in the control group (table 3). In the main group, patients with suicidal thoughts, intentions and suicidal attempts accounted for 22,4% and 6,54%, respectively (DC=3,36; MI=0,44; p<0,01; DC=3,18; MI=0,25; and p<0.04, respectively).

Thus, follow-up studies conducted over two years confirmed the stability of the therapeutic effect in the main group.

Conclusion.

The analysis made it possible to develop and test the MPRS BP program for dementia, which included the use of pharmacotherapy (ACEI, NMDA receptor blockers, SSRI, antipsychotic and neuroprotective drugs), psychotherapy (crisis, rational, family art therapy), psychological training (cognitive, communicative, social skills) and psychoeducation. Interventions were used in a differentiated way depending on the factors of SR, the mechanisms of SB, and gender-based clinical and psychopathological correlates. Analysis of the effectiveness of the program allows us to draw a conclusion about the effectiveness of the developed measures, which is confirmed by the dynamics of clinical and psychopathological indicators, suicidological status, social functioning, and the level of vital activity of patients with SB in dementia.

Conflict of interest statement.

The author declares no conflict of interest.

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