

**Materials.** Screening among 10 baclophen derivatives was performed on male Wistar rats. We used the model of brain ischemia produced by gravitational overload in craniocaudal vector in combination with the estimation of the degree of neurological deficit on the McGrow scale [6, 7], the model of electroconvulsive brain injury with maximal electroshock with the estimation of the duration of coma, time of restoration of spontaneous motion activity [4, 5] and the degree of amnesia of conditional reflex of passive avoidance, produced before maximal electroshock [1]. Baclophen, its derivatives and the comparison medications – pyracetam, phenibut, phenotropil were injected intraperitoneally in the equimolar concentrations one time 30 minutes before the modeling of neuropathology. Check rats received physiologic saline in the equivalent volume. Statistical processing of results: Crusc-Wallace analysis, the Dunn criterion.

**Results.** Baclophen and its derivatives displayed neuroprotective and nootropic effect: decreased the degree of neurological deficit with the model of brain ischemia produced by gravitational overload in craniocaudal vector, reduced the duration of coma and time of restoration of spontaneous motion activity, prevent the amnesia of conditional reflex of passive avoidance on the maximal electroshock model. Glutamate-, glycine- and citrate comprising analogs of baclofen are statistically significantly more active than the initial substance. The majority of substances exceeded pyracetam, phenibut and RGPU-184 - even phenotropil by effectiveness.

**Conclusion.** The conducted studies point at effectiveness of the creation of effective neuroprotectors on the basis of baclophen derivatives. Baclofen citrate excels baclofen in activity, all its' examined derivatives, and the comparison medications – pyracetam, phenibut, phenotropil and is considered to be perspective for studying in the capacity of neuroprotector.

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#### THE DIAGNOSIS AND TREATMENT PSYCHOSOMATIC DISEASES

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The method "Installations of a positive majorant" is a diagnostic and correctional method. 1- the estimation to a psychological condition is given, 1- the psychological installation is formed, 3 - the quality of life raises, 4 - the psychological condition is improved, 5 - the dysfunctions disappear.

The clinical and biochemical analysis of blood are a dynamic parameter of a condition at stress. At chronic stress the elements of blood do not leave for frameworks of normal intervals. At vegetative balance the quantity of crates comes nearer to average arithmetic. This analysis is an express train - method of definition of a condition sympato-parasympatic domination and shows condition dynamics.

Aikido - psychophysical east system of struggle, which application optimizes a functional condition. Not aggression of the given direction, impellent activity and application of respiratory practice allow to apply it as a correctional method at the increased background pressure, psychosomatic infringements.

Feature of correction psychosomatic infringements at an exhaustion sympatic department of nervous system is the necessity of realization a relaxation of procedures at support of immunity, as

the increase of activity parasympatic department carries behind itself downturn иммунной protection of immunity.

Alternative to correction psychosomatic infringements at an exhaustion sympatic department of nervous system can be selection of methods of correction carrying in the basis elements of psychological and impellent correction.

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#### **PHARMACOLOGICAL PROTECTION OF HEART BY STRESSPROTECTORS DRUGS IN EXPERIMENTAL CONDITIONS**

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Emotional stress is a modern risk factor and complicates the course and prognosis of cardiovascular system diseases, therefore search cardioprotective agents among the anti-stress drugs actions will help to optimize the treatment of cardiovascular disease, and which is currently not only medical but also a social problem of modern medicine.

Pharmacological protection of heart was studied in 340 Wistar rats weighing 150-250 g in experimental model of an emotional stress “The Conflict of afferent stimulations”, simulation of myocardial ischemia in the experimental model pituitrynic coronary spasm (Pituitryn 10 U/kg) and calcium ar-

rhythmia models pathology (Calcium chloride 500 mg/kg), exponentiated by a stress.

Pharmacological protection of heart from damaging operating of an emotional stress and avoidance of development of myocardial dystrophies of a stressful genesis was investigated using anti-stress drugs: following adaptogen Eleutherococcus (0,5 ml/kg), tranquilizer Phenazepam (2,5 mg/kg), nootrop Pyracetam (200 mg/kg) and metabolite of a tryptophan Nicotinamid (50 mg/kg), for which one for the first time in conditions of a pilot model of an emotional stress “The Conflict of afferent stimulations” is rotined availability of cardioprotective properties. Fixed, that capdioprotection with the help these anti-stress drugs realising with help intensifying of developments an own stress-limiting systems of an organism and limitation by them of reactings of stress-realising systems. It confirms by positive dynamics studied electrophysiological, haemodynamic and metabolic parameters of a functional condition of myocardium in stress and in the pituitrynic coronary spasm and calcium arrhythmia models pathology, exponentiated by a stress.

Availability of cardioprotective properties of studied anti-stress drugs, which one are most expressed for Pyracetam (Pyracetam>Phenazepam>Nicotinamid>Eleutherococcus), allows to recommend them for further targeted application in clinic as cardioprotectors with the medical and preventive purpose in a structure of complex therapy of a pathology of heart of a stressful genesis.

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