## THE SEARCH OF HARMLESS ANALEPTICAL SUBSTANCE OF DERIVATES SULFUR AND NITROGEN-CONTANING HETEROCYCLIC

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**Introduction**. From analeptics depends on a person's life that needs urgent help with shock, asphyxia, hypoxia, bacterial intoxication collaptoid states, poisoning chemicals, alcohol overdose of drugs, which suppress the respiratory and vasomotor centers of the central nervous system. Particularly important role they play in anesthesiology, surgery and intensive care as antagonists of narcotic drugs, helping out with the patient's anesthesia. However tropism existing analeptics, varying degrees of influence on specific brain structures, a narrow range of therapeutic effects, toxicity narrows the scope of their application.

The analysis of the pharmaceutical market in the last 50 years has shown that the amount of analeptic drugs has not changed and has less than a dozen, which makes creation of original domestic analeptic perepativ actual problem of modern pharmacy and medicine.

**The aim** – focused search of the original substance with analeptic and anti anesthesial action.

Object and methods. To optimize search of analeptic substances were used methods of descriptive and statistical computer modeling. Assessment and analeptic and anti anesthesial action promising substances was conducted on mice in accordance with accepted standards. The initial screening of original pharmacological substances for the analeptic action performed on the model of ketamin anesthesia, after which was set optimal effective dose and acute toxicity (intravenously intraperitoneally and oral) of substances leader. Study features analeptic action of the given substance scheduled in comparison with caffeine niketamid, sulfokamfokayin and other substances in various models of anesthesia (viadril, tiopental, hexenal) and the model of alcohol intoxication. Further experiments include determining the best mode of application, installation dose dependency, regimen in a single system and use the most effective substance.

**Results**. The research helped to choose the leader of the substance with a pronounced awakening effect.

**Conclusions**. Derivatives of sulfur and nitrogen-containing heterocyclic were looking to find new analeptics.