

Molecular mechanisms of multiple effects of angiostatins in the injured cornea are required to be thoroughly studied for further translating these results in a clinical practice.

### **Analysis of the medication market for vascular dystonia**

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Public health remains a critical issue regardless of social, economic, or political circumstances. Statistics show a low percentage, only 17%, of the population is truly healthy. The rest experience various chronic conditions or underlying abnormalities in their body's structure and function. Early intervention during crucial stages of disease development, along with proper rehabilitation after injuries, is essential. Autonomic dysfunction syndrome encompasses all forms of autonomic nervous system regulation problems. The high prevalence of autonomic dysfunction, ranging from 30% to 80% in the general population, underscores the ongoing importance of addressing this issue.

The purpose of the work is analysis of the medication market for vascular dystonia.

In order to assess the consumer benefits of drugs used in the therapy of vegetative-vascular dystonia, marketing research was conducted on 50 consumers. It was established that doctors most often prescribe imported drugs (73%) and only 27% – domestic drugs. It was found that 37% of doctors prescribe brands to visitors; 23% – generic drugs and 40% – brand and generic drugs are prescribed with the same frequency. It was found that for 34% of consumers, the main thing when choosing a drug for the treatment of SVD is the doctor's recommendation; for 25% – efficiency; for 22% of consumers – the price of medicine and for 12% – safety and for 7% – advertising in mass media. It was found the main active substances in the drugs that consumers use for the treatment of vegetative-vascular dystonia. It was revealed that

piracetam is used by 28% of consumers, betahistine – 22%, risperidone – 18%, meldonium – 12%, ethyl methylhydroxypyridine succinate – 8%, phenibut – 3%, phenobarbital – 3%, hydazepam – 3%, doxylamine – 2%, others – 1%.

Thus, we conducted analysis of the medication market for vascular dystonia.

### **Prospects for studying the toxicity of various chemicals in cell cultures**

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Cell culture studies are increasingly used in scientific research, practical and regenerative medicine, and modern biotechnology.

Due to its advantages, such as the ability to determine the effect of a compound on a particular type of cell or tissue, as well as to neutralize the effects of the nervous, endocrine and immune systems, the cell culture method is in demand and relevant for studying the direct effect of exogenous (factors outside the body) agents, including cellular toxins and drugs, on certain groups of cells.

To study the effect of various substances on the body, cultures that differ in origin depending on the degree of tissue specialization (cell cultures obtained from adult animals or embryos), physiological state (normal or tumor tissues), and organotypic cultures (cultures that reproduce the complex cellular environment of the tissue from which they originate) can be used.

Studies on cell cultures of different origins, depending on the type of source tissue, such as cultures of fibroblasts, nerve cells, hepatocytes, kidney cells, splenocytes, and bone marrow cells, have their own characteristics.

Fibroblasts grow well in culture, and these cells are well isolated from mouse and rat embryos by enzymatic and explant methods. Fibroblast cell lines are among the most commonly used cultures for in vitro toxicity testing.

Thus, the use of a fibroblast cell line to study the effects on the animal body of certain chemicals, the use of which is known in therapeutic practice but requires