THE ROLE OF MEDICINAL PLANTS IN MODERN MEDICINE

Qarabayeva Dilfuza Jo‘rayevna

Lecturer at the Department of Botany, Termiz State University

Qahhorov Ismoiljon Barotali o‘g’li

Teacher at the Department of Botany, Termiz State University

Ne’matova Feruza O‘roqovna

Student of Termiz University of Economics and Service

Annatation: In this article, despite the rapid development of modern medicine, there is still information about the state and prospects of the use of medicinal and medicinal plants in the treatment of people.

Key words: Medicinal, healing, modern medicine, pharmaceutics industry, medicine, plantation of medicinal plants.

Introduction: Medicinal plants have played an important role in maintaining and restoring human health since ancient times. Modern medicine also widely uses compounds based on their chemical composition. Substances obtained from such plants are an important source in the production of antibiotics, analgesics and anti-inflammatory drugs.

Purpose of work: To study the importance and level of use of medicinal plants in modern medicine and to identify future opportunities in this field.

Research object: achievements and shortcomings of modern medicine and folk medicine as a research object.

Research methods: The following methods were used in the study:

1. **Literature analysis -** the chemical composition and pharmacological properties of medicinal plants were analyzed by studying scientific articles and books.
2. **Interviews and questionnaires -** interviews were conducted with pharmaceutical specialists and doctors.
3. **Practical tests** – the effectiveness of compounds obtained from medicinal plants was tested in laboratory conditions.

Results: Composition of medicinal plants

The main components of medicinal plants identified during the research are as follows:

- **Alkaloids - have analgesic and anti-inflammatory effects (for example, morphine).**

• Flavonoids - known for their antioxidant and anti-inflammatory properties.

• Glycosides - used to support the cardiovascular system.

2. Medicinal plants are part of modern medicines.

Aspirin is based on salicin extracted from licorice.

• Taxol is an anti-cancer drug obtained from the yew tree.

• Artemisinin is an effective remedy for malaria and is obtained from the **Artemisia annua plant.**

3. Opinion of research participants

78% of the doctors participating in the survey said that they prefer medicines obtained from medicinal plants. They believe that natural medicines are important in reducing side effects.

Discussion. Production of medicinal products using medicinal plants is environmentally and economically beneficial in the pharmaceutical industry. However, there are still many challenges in this area, including:

• Limited resources - some medicinal plants are in danger of extinction.

• The problem of standardization - it is difficult to keep the composition of plant-derived compounds stable.

• Insufficient clinical trials - the effectiveness of some medicinal plants has not yet been fully confirmed.

At the same time, developments in the field of biotechnology and genetic engineering are increasing the possibilities of effective cultivation and use of medicinal plants.

Conclusion: Medicinal plants play an important role in modern medicine. Their widespread use in the pharmaceutical industry creates great opportunities for improving human health. Research results show that resource conservation and increased clinical trials are needed to expand the use of medicinal plants.

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