

## **Medical familiarization practice**

### **Аннотация:**

Medical familiarization practice is a continuation of the educational process, during its passage, students consolidate and expand their theoretical knowledge and skills. Students undergo medical introductory practice on the basis of multidisciplinary medical institutions. Medical familiarization practice provides for the introduction of students with the structure of a multidisciplinary medical institution and a nosocomial pharmacy, monitoring the general condition of patients with various diseases and injuries, performing the simplest medical procedures and patient care measures.

### **Цель:**

Familiarization of students with the work of multidisciplinary medical institutions, consolidation of skills in providing first aid and caring for patients.

### **Задачи:**

The objectives of the educational practice "Medical familiarization practice" are:

- acquaintance with the structure and organization of the hospital;
- acquaintance with the work of departments, diagnostic and treatment rooms, nosocomial pharmacy;
- studying the design of prescription sheets, rules for discharging, receiving, storing and dispensing medicines to patients;
- acquaintance with the packages of medicines and available leaflets (in the amount of medicines available at nursing posts, in a nosocomial pharmacy, etc.);
- acquaintance with the primary skills in caring for patients and performing some nursing manipulations, in particular, acquiring the skills of opening ampoules, vials, practicing the technique of drawing drugs into a syringe;
- Acquisition of skills in caring for seriously ill and injured people (skin care and prevention of pressure sores, change of underwear and bed linen, delivery of the vessel and urine collection bag, help with eating);
- acquisition of skills in the treatment of premises with disinfectants;
- familiarization with the nature of sanitary education in a medical institution.
- mastering the principles of medical ethics and deontology.

## **Pharmaceutical Propaedeutical Practice**

### **Аннотация:**

Pharmaceutical propaedeutical educational practice is aimed at

- general acquaintance of students with the types of pharmacy organizations and their activities, their role in the health care system, with the organizational structure of pharmacies, equipment of pharmacy premises, rules of admission to pharmaceutical activities,
- familiarity with the main regulatory documents regulating pharmaceutical activity, the rules of prescription and over-the-counter dispensing of medicines;
- general acquaintance with the organization of the process of manufacturing medicines in production pharmacies with the right to manufacture medicines, including aseptic dosage forms, with the location and equipment of production facilities, the location and equipment of workplaces, with the norms and compliance with the requirements of the sanitary regime of production facilities and personnel, occupational safety and safety at workplaces.
- general familiarity with the conditions for obtaining, storage, supplying purified water and water for injections to the workplace, requirements for them and their implementation in a pharmacy;
- study of the conditions of storage and packaging of medicines, their registration for dispensing in accordance with the requirements of regulatory documentation;
- study of the dosage of medicines and excipients by weight and volume, rules for working with manual and calibration scales, burette installation.

### **Цель:**

The purpose of pharmaceutical propaedeutic educational practice is to provide students with primary professional knowledge, familiarity with the activities of pharmacy organizations of various organizational and legal forms in the field of industrial, commercial, economic, legal and informational activities for solving professional problems and for further self-education.

### **Задачи:**

1. To form knowledge of the regulatory framework regulating pharmaceutical activities, including the manufacture of dosage forms, their packaging, labeling and dispensing.
2. To form knowledge on the organization of the sanitary regime in pharmacy organizations, requirements for production facilities and equipment, sanitary and hygienic requirements for pharmacy personnel, on the device and principles of operation of specialized equipment.
3. To form knowledge on the organization of the production process of manufacturing dosage forms, their packaging, labeling and dispensing..
4. To form skills for the organization of the workplace for the manufacture of sterile and non-sterile dosage forms, the processing of pharmacy utensils, capping agents and auxiliary materials.
5. To form the skills of compliance with sanitary requirements for premises and equipment, sanitary and hygienic requirements for the staff of a pharmacy organization, working with equipment used in the manufacture of dosage forms.
6. To form the skills of dosing by weight of solid and liquid medicines on the pharmacy scales, liquid preparations by volume.
7. To form the skills of choosing the packaging material and labeling, depending on the type of dosage form, packaging and registration for the dispensing of dosage forms.

## **Practical training in botany**

### **Аннотация:**

As a result of the practice, students should:

Know the local flora of the place of practice, the main methods of collecting and storing of botanical material, methods of describing the biodiversity of phytocenoses, protected plants of the region.

Be able to herbarize and identify higher plants of the place of practice, to determine membership in certain families without additional sources, to determine the ecological groups of higher plants.

Have the skills to describe the biological diversity of phytocenoses by geobotanical methods.

Practice for students with disabilities and disabled people is carried out taking into account the characteristics of their psychophysical development, individual capabilities and health status.

When determining the place of practice for people with disabilities and people with disabilities, the recommendations of the medical and social expertise, reflected in the individual rehabilitation program for the disabled, are taken into account regarding the recommended conditions and types of work.

At the request of students with disabilities and disabilities, special jobs are created for practical training in accordance with the nature of health disorders, as well as taking into account the profession, the nature of work, the work performed by the disabled person.

### **Цель:**

Acquisition of practical skills to study the diversity of medical herbs in nature.

### **Задачи:**

1. To acquaint students with the methods of collecting, describing and identifying higher plants of various groups.
2. To acquaint students with the most common species of medical plants of the local flora.
3. To form the skills of collecting, identifying and describing the main taxa of higher plants.
4. To develop skills of identifying families of higher plants in natural conditions without additional sources.
5. To acquaint students with the methods of describing the plant component of biocenoses.
6. To form the skills of geobotanical description of the biological diversity of phytocenoses.
7. To acquaint students with protected plants that are found on the territory of practice.
8. Develop the skills of writing a report on the study of biodiversity of the territory of practice.

## **Practice in pharmaceutical technology**

### **Аннотация:**

The pharmaceutical technology practice is aimed at consolidating knowledge of the regulatory regulation of pharmaceutical activities in terms of the organization of the production process of drug manufacture, maintenance and implementation of the requirements of the sanitary regime of the production premises of pharmacies and personnel, occupational safety and safety; consolidation and development of skills for the manufacture of semi-finished products, reception of prescriptions and requirements, manufacture of medicines in production pharmacies according to prescriptions and requirements, their packaging, labeling and processing them for dispensing.

### **Цель:**

The purpose pharmaceutical technology practice is to consolidate and providing profound theoretical knowledge and practical skills of manufacturing medicines, to gain an idea of the work of a pharmacist-technologist, to acquire primary practical experience in the specialty and to form professional skills and abilities in relation to admission of prescriptions, manufacturing medicines, their quality control and dispensing, that is necessary to solve professional tasks in the activity pharmacist-technologist in the conditions of work in pharmacy organizations.

### **Задачи:**

1. Consolidate knowledge of the regulatory framework for the manufacture, storage and dispensing of dosage forms.
2. To consolidate skills on the organization of sanitary regime in pharmacy organizations, sanitary and hygienic requirements for pharmacy personnel, on the device and principles of operation of specialized equipment.
3. Consolidate knowledge and skills on the organization of the sanitary regime and rules of work in the aseptic unit.
4. Consolidate knowledge on receiving prescriptions and requirements from medical organizations and the rules of their dispensing.
5. To consolidate the skills of manufacturing semi-finished products in production pharmacies.
6. To consolidate skills in the manufacture of medicines according to prescriptions and requirements, in particular solid, liquid, soft and aseptically manufactured dosage forms, their quality control, packaging, labeling, dispensing, and storage.

## **Practice on management and economy of pharmacy institutions**

### **Аннотация:**

The practical training in Pharmacy Management and Economics is designed to teach students how to apply theoretical knowledge in the activities of a pharmaceutical organization, critically analyzing and evaluating their professional and social experience

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### **Цель:**

The purpose of the practice is to increase the effectiveness of theoretical and practical knowledge in the field of pharmacy organizations.

### **Задачи:**

Practice tasks:

- to familiarize the student with the practical activities of the pharmacy organization;
- teach the student to formalize contractual relations with suppliers, the procedure for drawing up an application for pharmacy assortment goods and acceptance of inventory items with the preparation of appropriate documentation;
- to teach the student the rules of examination of prescriptions and the release of medicines and medical devices, work with cash registers;
- to teach the student to take inventory of inventory items and draw up documents based on the results of the inventory;
- to deepen the student's knowledge on the use of modern software in the practical activities of the pharmacy;
- to teach the student to conduct an economic analysis and assessment of the financial condition of the pharmacy, as well as to master the accounting procedure for inventory items.

## **Practice on pharmacognosy**

### **Аннотация:**

Training practice in pharmacognosy is the consolidation of the theoretical and practical skills acquired in the procurement, herbarization and quality control of medicinal plant materials, the formation and development of competencies among graduates aimed at consolidating professional skills and practical skills of a pharmacist in the pharmacognostic analysis of medicinal plant materials, expanding and deepening knowledge on the procurement of medicinal plant materials, taking into account rational use and production of natural resources, as well as the rules for the standardization of plant materials.

### **Цель:**

The purpose of the practice is to consolidate the theoretical knowledge gained by students in the lecture and laboratory course on wild and cultivated medicinal plants, the formation of skills and practical skills in the preparation, drying, storage and processing of medicinal plant materials.

### **Задачи:**

Objectives of educational practice:

- 1) to form students' skills in the morphological analysis of medicinal plants;
- 2) to teach the identification of the diversity of the morphological structure of individual organs and plants in general;
- 3) To train to recognize the main representatives of the local flora of herbaceous and woody medicinal plants;
- 4) To teach the description of medicinal plants according to morphological and merchandising protocols;
- 5) To teach the rules of collection, primary processing, drying of medicinal plants of local flora;
- 6) Teach students how to standardize the collected raw materials.

## **Quality control of medicines**

### **Аннотация:**

This type of practice strengthens knowledge and skills in the field of research of physical and chemical properties of drugs, methods of their analysis. In production pharmacies, a specialist in the field of pharmaceutical chemistry carries out intra-pharmacy quality control of drugs, and in pharmaceutical enterprises controls the quality of pharmaceutical forms of factory production, pharmacists-analysts work in the centers of certification and quality control of drugs, in testing laboratories, research institutes dealing with the quality control of drugs and the search for new drugs. Compliance of medicines to the required level of quality is established using the methods of analysis prescribed in state standards (state Pharmacopoeia).

### **Цель:**

The practice is aimed at expanding the theoretical knowledge gained in the educational process, expanding and consolidating practical skills and competencies for solving specific problems of the practical activity of a pharmacist-analyst in the conditions of pharmacies, control and analytical laboratories, laboratories of the quality control department of pharmaceutical production, to acquire and consolidate the experience of independent work.

### **Задачи:**

The objectives of the discipline "quality control of medicines" are:

- familiarization with the organization and technical equipment of the workplace pharmacist-analyst;
- carrying out quality control of pharmaceutical forms of manufacture and factory production under the direction of the pharmacist analyst and registration of the relevant documentation.

## **Undergraduate practice**

### **Аннотация:**

The content of the practice includes issues of independent work of the graduate within the framework of planning and organizing the completion of the final qualification work, issues of applying basic knowledge in fundamental disciplines and disciplines of the specialty, practical skills for conducting an experiment or theoretical research, interpretation of the data obtained.

### **Цель:**

The study of methods and techniques for conducting experimental work, methods of working with literature and specialized databases, the development and consolidation of the skill of substantiating the relevance of the chosen topic, mastering the methods of processing the results obtained in order to achieve the goals formulated in the final work.

### **Задачи:**

The practice is designed to form and consolidate the skills of critical assessment and integration of a large array of data, to form the skills of designing their own scientific results in the form of a scientific work and a report on a given topic, presenting results, conducting discussions within the professional community, formulating recommendations and suggestions for solving applied problems of pharmacy.