

## Plan of practical training from the educational component

### Work placement in Pharmacy based Technology of Drugs

Students of higher education must **be able to**:

- - draw up a plan of the assistant's room, aseptic block, note the location and equipment of workplaces, their sanitary condition;
- - analyze and use normative documents regulating the preparation, packaging, labeling and storage of electronic devices in the pharmacy;
- - to fulfill the requirements of proper pharmacy practice in the production activity of the pharmacy;
- - check the correctness of prescriptions (requirements), compatibility of ingredients and doses of poisonous and potent medicinal substances in them;
- - receive poisonous, narcotic substances from the responsible person upon request;
- - **from the preparation of solid dosage forms:** work with prescription, manual and electronic scales, weigh and grind loose substances, determine the order of mixing ingredients according to their physical and chemical properties;
- - **from the preparation of liquid medicinal forms:** to dose liquids by weight and volume; calibrate a non-standard dropper; prepare aqueous and non-aqueous solutions of medicinal substances by the mass-volume method and by mass; use special technological techniques for preparing solutions of certain medicinal substances (heating, grinding, complex formation, etc.); dilute ethyl alcohol, standard pharmacopoeial liquids; prepare drops, solutions of IUDs and protected colloids, suspensions, select stabilizers; prepare aqueous extracts from medicinal plant raw materials, as well as using standardized extracts-concentrates; prepare liniments of various dispersed types;
- - **for the preparation of soft medicinal forms:** select the ointment base in accordance with the medical purpose of the ointment; prepare ointments taking into account the type of dispersion system; prepare suppositories by rolling, pouring and pressing methods;
- - **from the preparation of aseptic medicinal forms:** to ensure and observe aseptic conditions for the preparation of medicinal preparations; prepare injection solutions, eye drops; stabilize, isotonize, filter, check them for the absence of mechanical inclusions, sterilize; prepare the eye base and sterilize it, prepare eye ointments, drugs with antibiotics, drugs for newborns;
- - **from the preparation of intra-pharmacy preparations, packaging, repackaging:** calculate the amount of solvent and medicinal substances and prepare concentrated solutions; to correct their concentration and design barbells for them; carry out dismantling, washing and assembly of the burette unit, fill it with solutions;
- - carry out packaging and repackaging of medicines, prepare concentrates, semi-finished products, medicines for stock, register them in the relevant journals;
- - to work with means of small mechanization, to know the principle of their operation;
- - carry out continuous intra-pharmacy quality control of prepared extemporaneous medicinal products, package and label medicinal products;
- - store prepared extemporaneous medicines and in-pharmacy preparations in proper conditions;
- - work with technological documentation in the pharmacy (use general and technological instructions, make production records in the passport of written control and relevant journals);
- - draw up technological instructions for extemporaneous medicinal products and in-pharmacy preparations;
- - observe the rules of occupational health and safety.