

SPECIALIST DEGREE PROGRAMME 31.05.01 'GENERAL MEDICINE'

**PRACTICAL TRAINING 'Practice in obtaining professional skills and experience
(Assistant Procedural Nurse)'**

OVERVIEW

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| Mode of study | Practice in obtaining professional skills and experience (Assistant Procedural Nurse) |
| Faculty | International Institute of Medical Education and Cooperation |
| Department | Internal Diseases Propedeutics |
| Year | 3 |
| Semester – | 6 |
| Exam – | 6 semester |
| Total workload | 180 ac.h (5 credits) |
| Total duration | 20 days |

The course (module) is devised according to FSES HE requirements approved on February,9, 2016 by Order of Ministry of Health, Russian Federation) and vocational functions of General Practitioner (primary care physician, district doctor) Professional Standard.

1. THE COURSE AIM AND SCOPE
"Assistant Procedural Nurse" (practice).

The aim of the practice: training students in the main stages of the work of the procedural nurse and to apply their knowledge in practice in hospital.

Practice tasks:

Know the main stages of the work of the nursing staff:

- compliance with the rules of aseptics and antiseptics in the conduct of manipulations by a procedural nurse;
- algorithm of operation of nurse in procedural office during various manipulations;
- disinfection and pre-sterilization preparation of the medical instrument of the procedural room
- taking medicine in syringe of an ampoule and vial drug solution;
- dilution of antibiotics and other drugs;
- collection of blood and its transportation to the laboratory for different types of laboratory examination;
- performing manipulations according to the doctor 's appointment and keeping records of manipulations performed
- taking a swab from the pharynx and nose for laboratory examination;
- parenteral administration of drugs (intravenous, subcutaneous, intramuscular injections);
- decontamination of medical instruments in the procedural room, pre-sterilization cleaning and sterilization in the centralized sterilization station;
- provision of pre-medical care in cases of complications during medical manipulations and call of a doctor;
- compliance with the sanitary and anti-epidemic regime, as well as measures to prevent hiv/aids a and viral hepatitis b and c in the procedural room;
- keeping records of drug consumption;

- timely and correct maintenance of records in the procedural room according to the established form.

To be able to perform procedural nurse manipulations:

- perform intravenous, intramuscular and subcutaneous injections,
- use sterile tray,
- measure blood pressure, pulse rate, breathing rate,
- provide pre-medical care in cases of emergency situations and complications during medical manipulations
- oxygenotherapy;
- ability to use a portable inhaler;
- provision of first aid in case of breathlessness, suffocation;
- first aid for heart pain;
- first aid for vomiting;
- methods of temporarily stopping external bleeding;
- first aid for poisoning;
- prepare the necessary documentation.

To provide technology of carrying out:

- intravenous, intramuscular, subcutaneous, intracutaneous injections;
- venous blood sampling for laboratory examination;
- technique for measuring blood pressure, pulse rate and heart rate, breathing rate, patient 's body temperature;

2. THE COURSE POSITION IN SPECIALIST DEGREE PROGRAMME 31.05.01 ‘GENERAL MEDICINE’.

2.1. The practical training "Assistant Procedural Nurse" refers to the cycle of B2 "Practices, including research work." Production practice is carried out at the end of the 6 semester.

Special requirements for entrance knowledge, skills and competences of the student are provided for in the following disciplines of the basic part of the B1:

Bioethics, Law, Latin, Psychology and Pedagogy

Knowledge: doctor-patient relations, moral and ethical norms, rules and principles, professional medical behavior, patient and doctor rights, basic ethical documents of international and domestic professional medical associations and organizations; a lexical minimum of 4,000 teaching lexical units of a general and terminological nature (for a foreign language); basic medical and pharmaceutical terminology in Latin, basic aspects of psychology, general and individual features of adult psyche, psychology of personality and small groups.

Ability: to focus on existing normative and legal acts, to apply labour legislation in specific practical situations to protect the civil rights of doctors and patients of different ages; uild and maintain working relationships with other team members.

Skills: the skills of presenting an independent point of view of analysis and logical thinking, public speech, moral and ethical reasoning, conduct of discussions and round tables, principles of medical deontology and medical ethics; Latin reading and writing skills in clinical and pharmaceutical terms and prescriptions; skills to inform patients according to the "informed consent" rules.

Physics, Biochemistry, Biology, Anatomy, Topographic Anatomy and Operational Surgery, Histology, Cytology, Embryology, Normal Physiology, Microbiology, Virology, Immunology, Pharmacology, Pathophysiology.

Knowledge: safety rules and work in physical, chemical, biological laboratories, with reagents, devices, basic physical phenomena and patterns underlying processes in the human body; characteristics of the effects of physical factors on the body; physical basis of medical equipment

functioning; basic patterns of body development and vital activity based on structural organization of cells, tissues and organs histological features of tissue elements; methods of their investigation; anatomical-physiological, age-sexual and individual features of the structure and development of a healthy and sick organism; concepts of etiology, pathogenesis, morphogenesis, disease pathomorphosis, principles of disease classification; basic concepts of general nosology;

Ability: use physical, chemical and biological equipment; palpate the main bone points on a person, draw topographic contours of organs and the main vascular and nerve trunks; analyse histophysiological assessment of the state of various cellular, tissue and organ structures; analyse the results of the X-ray examination; interpret the results of the most common methods of laboratory and functional diagnostics, thermometry to detect pathological processes in organs and systems; substantiate the nature of the pathological process and its clinical manifestations, principles of pathogenetic therapy of the most common diseases.

Skills: medical anatomical conceptual apparatus; the simplest medical tools (phonendoscope, tonometer, spatula); information on the principles of sterilization, disinfection and antiseptic treatment of tools and equipment to avoid infection of the doctor and patient.

Hygiene, General Surgery, Internal Diseases Propedeutics.

Knowledge: the basis of preventive medicine aimed at improving public health; sanitary and hygienic requirements to the organization and working hours of departments, bases of the organization of the out-patient and polyclinic and in-patients departments help to adult population, modern organizational forms of work and diagnostic opportunities of polyclinic service; methods of urgent measures and indications for hospitalization of patients; maintenance of standard medical records in medical organizations; etiology, pathogenesis, diagnosis, treatment and prevention of the most common diseases; clinical picture, current characteristics and possible complications of the most common diseases that typically occur in the adult population;

Ability: analyse and evaluate the quality of medical care, the state of health of the adult population, the influence on it of factors of lifestyle, environment, biological and organization of medical care; participate in the organization and provision of medical, preventive and sanitary-anti-epidemic, preventive and rehabilitation assistance to the adult population, taking into account the socio-professional and age-sexual structure; collect anamnesis; survey physical examination of the patient (examination, palpation, auscultation, measurement of blood pressure, pulse characteristics, breathing rate), send for laboratory and instrumental examination, for consultation with specialists; interpret the results of the examination, make a preliminary diagnosis, outline the scope of additional studies to clarify the diagnosis; identify life-threatening disorders and provide first aid in case of emergency conditions, maintain medical documentation of various nature in medical organizations of therapeutic profile.

Skills: methods of maintaining medical records in medical organizations; assessments of the state of health of the population, methods of general clinical examination; interpretation of results of laboratory, instrumental diagnostic methods; algorithm for performing basic diagnostic and therapeutic measures to provide first aid in case of urgent and life-threatening conditions.

2.2. Passing the practice is necessary for the knowledge, skills and abilities formed by subsequent disciplines and practices:

Epidemiology, infectious diseases, public health, medical rehabilitation, clinical pharmacology, dermatology, neurology, medical genetics, psychiatry, otorhinolaryngology, ophthalmology, obstetrics and gynecology, pediatrics, radiology, occupational diseases, hospital therapy, endocrinology, anesthesiology, intensive care, oncology, traumatology;

Knowledge: bases of the legislation of the Russian Federation, the basic normative and technical documents on health of the adult population; the basics of health insurance in the Russian Federation, the structure of the system of health of the Russian Federation, the activities of the bodies and institutions of system of protection of motherhood and childhood; the basics of preventive medicine aimed at improving the health of the population; bases of applying the methods of evidence-based medicine in the assessment of health status, activities of medical organizations; sanitary and hygienic

requirements to the organization and mode of operation of hospitals, departments; fundamentals of organization of outpatient and inpatient care for adults, modern organizational forms of work and diagnostic capabilities of polyclinic services; principles of dispensary observation of various age-sex and social groups of the population, rehabilitation of patients; features of the organization and the main activities of the district doctor and General practitioner; methods of emergency measures and indications for hospitalization of patients; maintenance of standard accounting and reporting of medical documentation, expert assessment of disability; the epidemiology of infectious and non-communicable diseases, implementation of preventive measures, the protection of the population in the foci of particularly dangerous infections, the deterioration of the radiation situation and disaster event; etiology, pathogenesis, diagnosis, treatment and prevention of most common diseases of the population; clinical picture, peculiarities of the course and possible complications of the most common diseases that occur in typical form in the adult population; the main clinical manifestations of diseases of the skin and subcutaneous tissue, ENT-organs, eye, the nervous system, the maxillofacial area, oncologic pathology, their diagnostic and surveillance; clinical manifestations of basic syndromes requiring surgical treatment; peculiarities of medical aid in case of emergency; modern methods of clinical, laboratory and instrumental diagnosis of patients with therapeutic, surgical; general principles and features of diagnostics of hereditary diseases and congenital anomalies; organization and conduct of rehabilitation activities among the adult population, the mechanism of treatment and rehabilitation effects of physiotherapy, physical therapy, reflexology, herbal medicine, massage and other non-drug methods, indications and contraindications to their appointment; types and methods of modern anesthesia; methods and methods of prevention of postoperative complications; features of intensive care; features of the organization of medical care, resuscitation in emergency situations, disasters in peace and war; principles and methods of first aid and emergency; clinical and pharmacological characteristics of the main groups of drugs and rational choice of specific drugs in the treatment of major pathological syndromes of diseases and emergency conditions in patients; the system of organization of forensic medical examination in the Russian Federation; the rights, duties and responsibility of the doctor involved to participation in procedural actions as the expert or the expert, the main ways and the methods applied at carrying out forensic medical examination.

Ability: to analyze and evaluate the quality of medical care, the health status of the adult population, the impact on it of lifestyle factors, the environment, biological and organization of medical care; to participate in the organization and provision of treatment and prevention, sanitary and anti-epidemic, preventive and rehabilitation care for the adult population, taking into account the socio-professional and age-sexual structure; make a survey, make a physical examination of the patient (examination, palpation, auscultation, measurement of blood pressure, determination of pulse characteristics, breathing rate), send for laboratory and instrumental examination, consultation with specialists; interpret the results of the examination, make a preliminary diagnosis, draw the plan of additional tests to clarify the diagnosis; formulate a clinical diagnosis; develop a patient treatment plan taking into account the course of the disease, choose and prescribe drug therapy, use methods of non-drug treatment, conduct rehabilitation activities; identify life-threatening disorders and provide emergency first aid to adults affected by lesions in emergency situations; carry out preventive measures to increase the body's resistance; promote a healthy lifestyle; maintain medical records of various.

Skills: record-keeping of medical accounting documentation in medical institutions; assessments of the health status of the population; methods of general clinical examination; interpret results of laboratory and instrumental methods of diagnostics; algorithm of preliminary diagnosis with subsequent referral for additional screening and medical specialists; algorithm of making of clinical diagnosis patients; algorithm of implementation of the basic medical diagnostic and therapeutic measures to provide first aid in emergency and life threatening conditions.

2.3. The practice is in the VI semester.

3. Requirements to the results of practical training.

The practical training is aimed at the formation of the following General cultural (GC) and professional (PC) competencies in students:

| Supervised sections (topics) of the discipline (module) | Competency code | Learning outcomes | Evaluation | The stage of formation of competence |
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| Practical training Assistant procedural nurse. | GCC-8 ability and readiness to carry out the work with the moral and legal norms accepted in society, observance of rules of medical ethics, laws and normative legal acts on work with confidential information, to keep medical secret | A student knows rules of medical ethics, laws and regulations on working with confidential information | Interview | 6 s. |
| | | A student is able to comply with the rules of medical ethics, laws and regulations on working with confidential information | Management game | |
| | | A students uses communication skills, comply with the rules of medical ethics, laws and regulations on working with confidential information | | |
| | GCC-4 ability and readiness to implement ethical and deontological principles in professional activities | A student knows ethical and deontological principles in professional activity | Interview | 6s. |
| | | A student is able to use ethical and deontological principles in professional activity | Management game | |
| | | A students uses communication skills | | |
| | GCC-11 ability and readiness to use medical devices provided for by the procedures of medical care | A student knows the procedure for the use of medical devices provided by the procedures for the provision of medical care | Interview | 6 s. |
| | | A student is able to use medical devices provided by the procedures for medical care | Management game | |
| | | A students uses skills of application of medical devices provided by the procedures of medical care | | |
| | GCC-10 ability and readiness to provide medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases that are not | A student knows the order of medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the life of the patient and do not require emergency medical care | Interview | 6 s. |

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| | accompanied by a threat to the life of the patient and do not require emergency medical care | A student is able to provide medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the life of the patient and do not require emergency medical care | Demonstration of practical skills Situational case | |
| | | A students uses skills of medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the life of the patient and do not require emergency medical care | | |

Head of internal diseases propedeutics department

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