

**SPECIALIZED STUDY PROGRAM FOR SPECIALIZED DIVISION
GENERAL MEDICINE
No. A 022**

a) Characteristics of the specialization and the duration of specialization study

General medicine is a specialized division of medicine, which provides general health care for adult inhabitants. It has a multidisciplinary character and it integrates knowledge of particular medical divisions.

According to relevant EU guidelines is the minimal duration of the specialized study 3 years.

According to the decision of Accreditation commission of Ministry of Health of Slovak Republic for further education of health professionals from the 10th May 2005 is the duration of specialized study in Slovak Republic 4 years.

b) Determination of the educational grade, duration and content of special medical practice, which is necessary for the enrollment into the specialized study in the specialization

The condition for the enrollment to the specialized study in the general medicine specialization is the graduation from university doctoral study in the study field of general medicine (MUDr.)

c) The extent of theoretical knowledge, practical skills and experiences needed for the execution of specialized practical operations

1. The extent of theoretical knowledge needed for the execution of specialized practical operations

An applicant for the specialization in general medicine has to have knowledge in internal medicine in the extent of the common internal stem, knowledge in the field of general medicine and reasonable knowledge in the related fields. An applicant is familiar with legal regulations, which are related to the field of health care providing.

In terms of 2-years common internal stem:

- etiology, pathogenesis, clinical pictures, diagnostics, differential diagnostics, treatment and prevention of internal diseases,
- indications and contra-indications of diagnostic and treatment procedures and the interpretation of their results, laboratory and auxiliary examinations in internal medicine,
- diagnostic and treatment procedures during the failure of organs and systems (heart, lungs, kidneys, liver etc.),
- intensive care basics, monitoring, diagnostic and treatment procedures during emergency situations in internal medicine,
- principals and practice of institutional and ambulatory care of patients with internal diseases,
- indications and interpretation of consultations in internal practice.

In terms of general medicine specialization of 2 years duration:

At the field of prevention:

- To manage prevention in general practice in general and at particular nosological units and diseases,
- Prevention of the most common non-epidemic diseases of mass incidence,
- Healthy subjects, subjects at risk and chronic patients dispensarization by general practitioner for adults, as well as the system of dispenzarisation by other divisions.
- National program for health promotion, all-society health programs and strategies, especially focused on prevention, depistage and the faith against alcoholism and drug addictions.
- Fundamentals of effective health education of population and behavioral medicine.
- Depistage and the faith against infectious diseases, fundamentals with the cooperation with the Public health institute.
- Fundamentals of hygiene control and workplaces control in a specific region, at factories, residential areas and other objects.

At the field of diagnostics:

- Basic and comprehensive examination of a patient in an ambulance or outside the ambulance.
- Indications for consultant examinations.
- Indications for laboratory and functional tests of the cardiovascular and respiratory systems and other auxiliary examinations.
- Basic ECG records evaluation, basic knowledge and interpretation of examinations performed at an ambulance (urine, blood sedimentation, biological materials withdrawal).
- Differential diagnostic of diseases on skin, infectious and non-infectious diseases with exanthema.
- Prevention and diagnostic of transmitted diseases, which occur in Slovakia, knowledge of active and passive immunization.

- Reliable diagnostic of situations jeopardizing basic vital functions.
- Basic differential diagnostic of diseases conditions based on medical history, examination and auxiliary examinations (procedures, tools, instruments) at the practice and at the patient's home.
- Dead body inspection, basics of forensic medicine.

At the field of treatment:

- Principles of comprehensive treatment (lifestyle modification, psychotherapy, treatment with diets and rehabilitation) by patients, which are treated by himself.
- Basics of pharmaco-therapeutical procedures.
- First aid and resuscitation basics by circulation and breathing disorders.
- First aid by injuries, staunch the bleeding.
- First aid by a delivery.
- Decision, if the disease condition should remain in his/her care or if there is a need of consultation, irrespective if to send the patient to specialized health care.

At the field of rehabilitation:

- To operate by basic and some special practical actions: acquisition of basic manual therapy, soft, mobilization techniques, massages and others.
- Basic methods of treatment and working rehabilitation, functional examination of the locomotive system.
- Indications for rehabilitation methods, treatment and working rehabilitation, functional examination of the locomotive system.
- Indications and the basic knowledge of acupuncture.
- Indications of rehabilitation methods application by a bedridden patient at home, post-operative care of patient at home.

At the field of work organization:

- The knowledge of the division concept, fundamentals of management and work control at the workplace.
- Collaboration with health insurance companies, with the Social Insurance Company and other authorities, inclusive municipal government authorities, state administration and health administration.
- Cooperation with the social system, with home nursing care agencies.
- The correct reporting of activities for the health authorities, health statistics, obligatory diseases reporting.

An applicant has to show basic knowledge and skills not only from this division but also from other medical divisions:

- First aid and fundamentals of emergency medicine.
- Social medicine and health services organization.
- System of social care.
- Psychology basics.
- Nursing care basics.

2. The extent of practical skills and experiences necessary for the execution of specialized working activities

An applicant has to overmaster and perform basic medical, common internal and specialized activities and operations in order to acquire the specialization in the division of general medicine.

**An applicant has to perform during the 2 years common internal stem:
- The following number of examinations (operations):**

Standard institutional clinical practice: admission of a patient to the hospital, medical history, physical examination, ECG description, chest X-ray description, interpretation of auxiliary lab and consultant examinations, monitoring and treatment, discharge from the hospital	400 patients
ECG description	400
Chest X-ray description	400
Stomach X-ray description	50
Venous blood withdrawal, venous catheter insertion	50
Infusion and injection therapy	50
Arterial blood withdrawal, interpretation of examinations	20
Blood transfusion and blood derivatives administration	20
Blood smear examination	20
Urine and urine sediment examination	20
Body cavities puncture	20
Airways secretions suction, inhalation treatment, ventilation	20
Urine bladder catheterization by a man and by a woman	20
Rectoscopy	10
Upper gastrointestinal tract sonde insertion	8
Cardiopulmocerebral resuscitation	5

- The following minimal number of examination assistances:

Central venous catheter insertion	5
Tracheal intubation	5
Defibrillation, cardioversion	5
Cardiostimulation (temporary, permanent, exchange of the pacemaker, electrodes)	5
Echocardiography	20
Functional examination of cardiovascular system: 24 hour monitoring of ECG, BP, ergometry, „head-up tilt“ test etc.	20
Functional examination of respiratory system: spirometry, bronchoscopy	20
Radiodiagnostic: interventional radiology, CT, MR, radionuclide examination, PET	40
Ultrasound of stomach, thyroid gland, duplex vessel ultrasound etc.	40
Gastrointestinal endoscopy: gastroscopy, colonoscopy...	20
Organs and tissues biopsy	10
Dissection	3

In terms of specialization study in the division of general medicine, an applicant has to master over the following evaluation, diagnostic and treatment procedures and has to execute them practically:

- To master over the first aid by emergencies in childhood, physical examination of a newborn, infant and toddler, blood withdrawal from a child, cardio-pulmonary resuscitation by children, and vaccination system during the childhood.
- To practice a functional examination of locomotive apparatus, to indicate practically the methods a physical treatment,
- To master over the basic methods of classical and reflex massage, basics of the manual therapy, soft mobilization techniques, basic examination of locomotive system disorders and basics of the medical rehabilitation.
- To master over the first aid by generalized, allergic, skin reactions, withdrawal of biological materials from subjects, which are ill or are suspect of having a sexually transmitted disease.
 - To master over a basic eye examination, first aid by eye injury, eye burn and foreign body in the eye, first aid by the acute glaucoma attack.
- To master over the basic otorhinolaryngology examination using the instruments, orientation hearing examination, diagnostic and therapy of acute situation in otorhinolaryngology, lavage of the acoustic duct, the evaluation of audiometric examination, to master over the tracheotomy technique.
- To master over the first aid by selected acute psychiatric disorders, to establish a contact and a management of a dialogue with a psychically ill patient, crisis intervention, indication for further psychological and psychiatric care,
- To master over the vaccination against infectious diseases, disinfection and sterilization in a general practice, to master over the epidemiological measures by serious infectious diseases, work hygiene in a general practice, work physiology.
- To master over the urine bladder catheterization and gastric lavage.
- To master over the basic surgical treatment in the extent needed for the work of a general practitioner.

In terms of specialization study in the division of general medicine, an applicant has to perform the following number of examinations (operations):

- at a general practice for adults under the supervision of a tutor daily:

Medical history and examination	20
Complete documentation management	20
Indication and evaluation of a complementary examination	20
Differential diagnostic and treatment in a general practice	20
Injections administration	50
Small surgical operations (suture, incision, excision)	10
Cardiopulmonary resuscitation at adults and children	2
First aid at otorhinolaryngology diseases	10
Urine bladder catheterization at a man	10
Gastric lavage	5

- An applicant has to perform the following during the practice at hospital departments:

To write out spa treatment forms	15
To work out proposals for consultant examinations and other examinations	20
To perform oncology medical examination	20
To perform 3 deliveries, orientation manual obstetrics examination, basic gynecology examination inclusive examination with vaginal mirrors, manual breast examination and to advice a woman of self-examination of her breast, to nurse common diseases of external female genitals.	

d) The form of organization of the specialization study

Specialization study in the division of general medicine takes 48 months. It begins with the common internal stem with the recommended duration of 24 months. The common internal stem is followed by the further specialization study in the division of general medicine in the duration of 24 months. The specialization study has the theoretical and the practical component of education. The advocacy of the own written project is a part of the specialization exam. In terms of the specialization study an applicant passes the theoretical preparation in the educational authority in the division of general medicine in the extent of 0,5 month.

e) The extent and direction of the professional medical practice performed at distinct departments, the minimal duration and the time course

Common internal stem in the duration of 24 months

- practice at the following departments and ambulances:

A standard department of internal medicine	12 months
Intensive care unit	2 months
Admission ambulance of an internal department or at a central admission department of a hospital	1 month
An optional division of internal medicine (division with the common internal stem, as internal department, geriatrics, pneumology and TB department, occupational medicine, etc.)	2 months
Infectious diseases department	1 month
Clinical oncology department	1 month
Laboratory medicine department 1 month, or hematology and transfusiology department 0,5 month and clinical biochemistry department 0,5 month	
Surgery department	2 months
Neurology department	1 month
Anesthesiology and resuscitation department	1 month

**Further specialization study in the duration of 24 months
- practice at the following departments and ambulances:**

Pediatrics	1 month
Physiatry, balneology and medical rehabilitation	1 month
Dermato-venerology and Immunology and allergology	2 months
Ophthalmology	1 month
Otorhinolaryngology	1 month
Psychiatry	1 month
Gynecology and obstetrics	1 month
Public health institute	1 month
Surgical ambulance	2 months
General practice	9 months
Neurology ambulance	2 months
Orthopedic ambulance	2 months

Notice:

This exemplary program was:

- approved by working group of Accreditation commission of the Ministry of Health for further education of health professionals for the doctor category on the 18th April 2005,
- submitted and approved by Accreditation commission of the Ministry of Health for further education of health professionals for the doctor category on the 10th May 2005,
- approved by the Ministry of Health on the 11th July 2005.