

# Clinical Medicine

I.M. Sechenov First Moscow State Medical University

Degree or qualification is awarded: **Researcher. Research Teaching Fellow**

Language of study:

Mode of study: **full-time, extramural**

Duration: **6,480 hours**

Availability of free education: **yes**

Price: **312 000 rubles**

Programme curator: **Nadezhda N. Zabroda**

Tel.: **+74956229726**

E-mail: [zabnadnik@mail.ru](mailto:zabnadnik@mail.ru)

The professional area of the Ph.D. program graduates includes public health protection. Types of professional activity of Ph.D. graduates: research in the field of public health protection; improvement of quality and age of human life by means of fundamental research in biology and medicine; teaching activity in the field of higher education.

The training program includes areas of specialization, as well as courses aimed at preparing for teaching and research activities, with an obligatory in-depth study of foreign language, history and philosophy of science.

Training of Ph.D. students is conducted according to individual plans with a possibility of selecting additional areas of specialization, one or more foreign languages.

Practical training of Ph.D. students is conducted in accordance with the program on the basis of four university hospitals, seven research institutes, the university research center, and departments of the university.

Upon completion of the program Ph.D. students represent their research work. According to results of the presentation a state-recognized diploma is issued.

## Specializations within this programme

### 14.01.01 Obstetrics and Gynecology

Area of specialization: Obstetrics and Gynecology

It includes the studies of issues of optimization of the reproductive health of women in different periods of life; prevention, early diagnostics and treatment of gynecological diseases, improvement of health care for pregnant women, their fetuses and newborns. It contributes to improvement of the population health, reduction of the number of gynecological diseases, improvement of the quality of life of women and their performance.

### 14.01.02 Endocrinology

Area of specialization Endocrinology

It includes the studies of biosynthesis and impact of hormones. Clinical endocrinology aims to study etiology and pathogenesis of endocrine diseases, diagnostics, treatment and prevention of these diseases.

### **14.01.03 Diseases of the ear, nose and throat (Otorhinolaryngology)**

Area of specialization: Diseases of the ear, nose and throat

It includes the studies of methods of prevention, diagnostics, medical and surgical treatment of diseases of an ear, nose and throat.

### **14.01.04 Internal Medicine**

Area of specialization: Internal medicine

It includes the studies of etiology, pathogenesis, semiotics, diagnostics, prognosis and prevention of diseases of internals.

### **14.01.05 Cardiology**

Area of specialization: Cardiology

It includes the studies of a wide range of problems related to normal functioning, as well as pathology of human cardiovascular system.

### **14.01.06 Psychiatry**

Area of specialization: Psychiatry

It includes the studies of clinical psychiatry, social, psychological and biological bases of mental disorders, their clinical aspects, pathogenesis, treatment, prevention and rehabilitation of mental patients.

### **14.01.07 Eye diseases**

Area of specialization: Eye diseases

It includes the studies of diseases and pathologies of the eye, optic nerve, orbit, eyelids, and lacrimal apparatus; the development of methods of their diagnostics, treatment and prevention, as well as methods for correcting eye optics by optical means (glasses, contact lenses), surgical and energy depositions (diathermy, ultrasound, laser).

### **14.01.08 Pediatrics**

Area of specialization: Pediatrics

It includes the studies of child's health in the course of his/her development, physiology and pathology of childhood, and the development of methods of diagnostics, prevention and treatment of childhood diseases.

#### **14.01.09 Communicable Diseases**

Area of specialization: Communicable diseases

It includes the studies of diseases caused by specific pathogens - microbes and their metabolic products. Etiology, pathogenesis, pathophysiology, pathomorphology, diagnostics, clinical picture, prediction of outcomes and treatment of infectious diseases in humans are studied within the Program.

#### **14.01.10 Skin and venereal diseases**

Area of specialization: Skin and venereal diseases

Studies the skin and visible mucous membranes in health and disease. It focuses on etiology, epidemiology, pathogenesis, diagnostics, treatment and prevention of dermatoses and infections transmitted sexually.

#### **14.01.11 Nervous diseases**

Area of specialization: Nervous diseases

It includes the studies of etiology, pathogenesis, diagnostics, treatment and prevention of diseases of the nervous system.

#### **14.01.12 Oncology**

Area of specialization: Oncology

Studies causes and regularities of malignant tumors growth, elaboration and improvement of cancer control.

#### **14.01.13 Beam diagnostics, x-ray therapy**

Area of specialization: Beam diagnostics, x-ray therapy

It includes diagnostics and treatment of diseases of organs and systems with the help of physical impacts

(electromagnetic and corpuscular radiation and ultrasound); studies the effect of different types of ionizing radiation in the treatment of mainly malignant tumors, as well as several non-neoplastic processes.

#### **14.01.14 Dentistry**

Area of specialization: Dentistry

It includes the studies of etiology and pathogenesis of basic dental diseases (caries, periodontal diseases, etc.); the development of methods of prevention, diagnostics and treatment.

#### **14.01.15 Traumatology and Orthopedics**

Area of specialization: Traumatology and orthopedics

It includes the research and development of methods of diagnostics, treatment and prevention of injuries and their consequences, congenital and evoked diseases of the musculoskeletal system (spine, chest and limbs).

#### **14.01.16 Phthisiology**

Area of specialization: Phthisiology

It includes the studies of etiology, pathogenesis and pathomorphology of human tuberculosis, methods for detection, diagnostics, clinical picture, treatment, epidemiology and prevalence; prevention, organization of TB control activities and their effectiveness.

#### **14.01.17 Surgery**

Area of specialization: Surgery

It involves the study of diseases and injuries, when methods of bloody and bloodless surgery are of the most importance in treatment; elaboration of new surgical techniques, development of new surgical treatment and new surgical technologies, as well as improvement of methods for prevention, early detection and treatment of surgical diseases.

#### **14.01.19 Pediatric Surgery**

Area of specialization: Pediatric surgery

It includes research and clinical practice, methods of diagnostics, treatment and prevention of congenital and evoked

surgical diseases, as well as injuries of various genesis in children (starting from antenatal period) and adolescents.

#### **14.01.20 Anesthesiology and Intensive Care**

Area of specialization: Anesthesiology and Intensive Care

It includes theoretical justification and practical development of methods of protection of the body from extreme impacts in connection with surgery, as well as critical, life-threatening conditions caused by various diseases, injuries, intoxication.

#### **14.01.21 Hematology and Blood Transfusion**

Area of specialization: Hematology and blood transfusion.

It includes:

- the studies of the blood and patterns of hematopoiesis in ontogeny and phylogeny, under normal and various pathological conditions;
- the studies of epidemiology, etiology, pathogenesis, pathomorphology and clinical diagnostics of hereditary and evoked diseases of the blood system;
- development and improvement of methods of treatment and prevention of diseases of the blood system;
- development and improvement of methods of preparation and preservation of blood and blood components, blood substitutes and other transfusion media, as well as indications, rules and methods of safe blood transfusion, infusion and extracorporeal therapy;
- organization of specialized hematology and transfusion care, system of donation and blood services.

#### **14.01.22 Rheumatology**

Area of specialization: Rheumatology

It includes the studies of etiology, pathogenesis, diagnostics, differential diagnostics, treatment and prevention of rheumatic diseases: rheumatism, rheumatoid arthritis, reactive arthritis, diseases with systemic connective tissue disorders (systemic lupus erythematosus, scleroderma, dermatomyositis, etc.), systemic vasculitis, diseases of periarticular soft tissues and ligaments, osteoarthritis and osteoarthritis osteoporosis.

#### **14.01.23 Urology**

Area of specialization: Urology

It includes the studies of methods of diagnostics, treatment and prevention of diseases of the genitourinary system (kidney, ureters, bladder, urethra, prostate, parts of scrotum, penis), except for sexually transmitted diseases.

#### **14.01.25 Pulmonology**

Area of specialization: Pulmonology

It includes:

- the studies of regularities of formation of the respiratory system in ontogeny and phylogeny, under normal and various pathological conditions;
- the study of epidemiology, etiology, pathogenesis, pathomorphology and clinical diagnostics of hereditary and evoked diseases of the respiratory system;
- development and improvement of methods of diagnostics, treatment and prevention of respiratory diseases;
- organization of specialized pulmonary care.

#### **14.01.26 Cardiovascular Surgery**

Area of specialization: Cardiovascular surgery

It includes development of specific invasive diagnostic methods in surgery of cardiovascular system, surgical and x-ray surgery treatment of cardiovascular pathology (heart, arterial and venous systems).

#### **14.01.27 Addictology**

Area of specialization: Addictology

It includes the studies of biological principles and mechanisms of formation of psychoactive substances dependency, their toxic effects, epidemiological and clinical patterns, as well as medical and social consequences of alcoholism, drug abuse and toxicomania, diagnostics, treatment and prevention of these diseases.

#### **14.01.28 Gastroenterology**

Area of specialization: Gastroenterology

It includes the studies of diseases of the digestive system, development of methods of diagnostics, treatment and prevention of these diseases.

#### **14.01.29 Nephrology**

Area of specialization: Nephrology

It includes the studies of kidney diseases, development of methods of diagnostics, treatment and prevention of these diseases.