

COMENIUS
UNIVERSITY
BRATISLAVA

Clinical Placement Guide for Pre-State Practice

Study program: General Medicine



JESSENIUS FACULTY OF MEDICINE IN MARTIN

Comenius University
Bratislava

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Glossary

State exam practice is a compulsory clinical placement for students in the final year of their medical studies.

State exam is a compulsory assessment for medical students in their final year of studies. It consists of practical and oral parts.

Subject Guarantors are senior clinicians responsible for the content and delivery of the particular medical subject. Guarantors also act as heads of clinics.

Introduction

The state exam is a compulsory part of the assessment process for medical students in the final year of their studies in Slovakia. As part of the process, students must complete clinical placements in the following subjects:

- Internal Medicine
- Gynaecology and Obstetrics
- Paediatrics
- Surgery

General information

International students can complete their clinical placement at University Hospital Martin or abroad (subject to agreement and approval by the subject Guarantor). Such request must be submitted in writing directly to the appropriate clinic.

Aim

Working under direct supervision, the main aim of the clinical placement is for students to experience the clinical environment and the responsibilities of a doctor. The placement should provide students with practical experience and enable them to work at the different medical units of the relevant department. Where possible, students should also be allowed to participate in structured learning and professional development activities offered by the clinic.



Clinical placement

General information

International students have the choice of completing their clinical placement at the University Hospital in Martin (UHM) or abroad. Those opting for completion of their placement abroad must do so **in full**; it is **not possible** to split the placement between UHM and the clinic abroad (exception applies to Occupational medicine and Toxicology* and Surgery**).

Subjects

Internal medicine

The clinical placement lasts nine weeks. If completing the placement at the University Hospital Martin, students' time will be split between the different departments of the Internal Medicine Clinic.

Students completing their placement **abroad** must submit their written request directly to the clinic. Placement will need to follow the prescribed structure (*see page 4*) and students will also need to spend three out of nine weeks at the following clinics:

- Clinic of Haematology and Transfusiology – 1 week
- Clinic of Pneumology and Phthisiology - 1 week
- Clinic of Occupational Medicine and Toxicology – 1 week *

*Those completing their placement abroad and are unable to secure a place at the Clinic of Occupational Medicine and Toxicology, can do so at the University Hospital in Martin. This will need to be agreed upon and arranged with the subject Guarantor.

Gynaecology and Obstetrics

The placement lasts three weeks. Students can complete their placement at the University Hospital in Martin or abroad. Those completing their placement abroad must follow the prescribed structure (*see pages 6-7*) of the subject.

The request for completing the placement abroad must be submitted in writing directly to the clinic.



Paediatrics

The placement lasts four weeks. Students can complete their placement at the University Hospital in Martin (students' time will be split between the clinics of Children and Adolescents, Neonatology, Paediatric Anaesthesiology and Intensive medicine and Clinic of Children TB and Respiratory Diseases) or abroad. Those completing their placement **abroad** must follow the prescribed structure (*see page 8*) of the subject.

The request for completing the placement abroad must be submitted in writing directly to the clinic.

Surgery**

If completing the placement at UHM, the placement lasts seven weeks. The placement **abroad** lasts **five weeks** and is followed by two weeks of teaching at UHM. Further two weeks of self-study follow, with an option of a consultation with UNM clinicians. Those completing their placement abroad must follow the prescribed structure (*see page 9*) of the subject.

The request for completing the placement abroad must be submitted in writing directly to the clinic.

Submitting clinical placement request

Your request must be **submitted in writing using the prescribed form** and well in advance of the start of your placement and **by mid-June at the latest**. Your completed request form can be submitted in person or be emailed to:

Internal Medicine

Please email your request form to Ms Ivona Jančáriková at ivona.jancarikova@uniba.sk

Questions relating to the content and/or structure of your clinical placement should be addressed to Martin Jozef Pěč, M.D., PhD. at martin.jozef.pec@uniba.sk

Paediatrics

Please address your request form to Ms Margaréta Štáliková and submit it at deti@jfmed.uniba.sk

Questions relating to the content and/or structure of your clinical placement should be addressed to Assoc. prof. Lubica Jakušová, M.D., PhD. at lubica.jakusova@uniba.sk

Surgery

Please email your request form to Mgr. Petra Dudíková at dudikova9@uniba.sk

Questions relating to the content and/or structure of your clinical placement should be addressed to Michal Hošala, M.D., PhD. at michal.hosala@uniba.sk

Gynaecology and Obstetrics

Please email your request form to Ms Lucia Daníková at lucia.danikova@uniba.sk

Questions relating to the content and/or structure of your clinical placement should be addressed to prof. Erik Kúdela, M.D., PhD. at erik.kudela@uniba.sk



Department:	Internal Medicine
Duration:	9 weeks (including 3 weeks at the Occupational Medicine and Toxicology, Phthisiology and Pneumology, Haematology clinics)
Assessment:	State exam
Working hours:	8 hours a day

Aim

Working under direct supervision of a qualified doctor, students will complete their training by rotating the different specialisms focusing on treating and managing a variety of conditions.

Cardiology - heart failure, shock states, ischemic heart disease (acute and chronic forms), inflammatory heart disease, valve defects, hypertension, thromboembolic disease and others

Pneumology and Phthisiology - obstructive and restrictive lung diseases, infectious lung diseases lung tumours and tuberculosis.

Gastro-enterology - functional, inflammatory and cancerous diseases of upper and lower GIT, inflammatory and cancerous diseases of the liver, gall bladder, biliary tract and pancreas

Nephrology - inflammatory and cancerous diseases of kidneys, acute kidney injury and chronic renal kidney disease.

Endocrinology and diabetology - diseases of the thyroid gland and other endocrine organs, diabetes mellitus, failures of metabolism, metabolic syndrome

Rheumatology - inflammatory and degenerative diseases of conjunctive tissues

Haematology - anaemia, bleeding and thrombophilic states, hemato-oncological disorders, transfusiology.

Training objectives and learning outcomes

- Complete internal examination of a patient
- Admission and discharge of patients, taking blood pressure, an indication of laboratory tests and auxiliary examination methods, intravenous administration of drugs under doctor's supervision
- Evaluation of ECG, chest X-ray pictures, laboratory findings and results of auxiliary examination methods
- Giving blood transfusion under doctor's supervision.
- Diagnostic and therapeutic procedures (e.g. pleural puncture, puncture of ascites, bone marrow puncture, etc.)
- Examinations at specialised outpatient departments (functional diagnosis of the cardiovascular system, endoscope examination of GIT, sonograph and X-ray examination, etc.).
- Managing acute cases at coronary and metabolic units, including cardio-respiratory resuscitation and haemodialysis treatment

Subject Guarantor: prof. Marián Mokáň, M. D., D.Sc., FRCP Edin.



Departments:	Occupational Medicine and Toxicology, Phthisiology and Haematology
Duration:	3 weeks in total - 1 week in each clinic
Assessment:	State exam taken as part of Internal Medicine
Working hours:	8 hours a day

Aim

The aim of the placement is for student to gain practical skills and knowledge, including taking medical histories, writing of medical reports, planning and managing medical examinations.

Training objectives and learning outcomes for occupational medicine and toxicology

- Pneumoconiosis
- Occupational allergic respiratory diseases (EAA, asthma bronchiale)
- Poisoning by medicaments, alcohol, methyl alcohol, ethylene glycol, mushrooms
- Poisoning by pesticides, organic solvents, carbon monoxide, hydrogen cyanide, potassium and sodium cyanide, lead (Pb), mercury (Hg), chromium (Cr), arsenic (As)
- Injuries caused by ionizing and electromagnetic radiation
- Musculoskeletal injuries – impingement syndrome of the shoulder, carpal tunnel syndrome, chronic low – back pain
- Vibration – induced white finger disease

Subject Guarantor: Assoc. prof. Oto Osina, M.D., PhD.

Training objectives and learning outcomes for phthisiology

- Common lung diseases - diagnostics, differential diagnostics, treatment
- Lung function examination
- Bronchoscopy - indications, technique, demonstration
- Reading and interpreting Lung X - ray and CT of the lung

Subject Guarantor: Assoc. prof. R. Vyšehradský, M.D., PhD.

Training objectives and learning outcomes for haematology

- Preparing medical records and discharge summaries
- Evaluation of blood count and laboratory examination of haemostasis
- Bone marrow aspiration and trephine biopsy
- Blood testing before transfusion and administration of blood products
- Examination and management of a patient in haematology outpatient department

Subject Guarantor: Assoc. prof. Juraj Sokol, M.D., PhD., MBA



Department:	Gynaecology and Obstetrics
Duration:	5 weeks in total; 3 weeks of practical training and 2 weeks of self-study
Assessment:	State exam
Working hours:	8 hours per day

Aim

The aim of the practice is for students to work in clinics, wards, surgery and labour wards and experience the full cycle of clinical work, including assisting with labour, operations as well as prenatal genetic counselling.

Training objectives and learning outcomes

At the end of the clinical placement student will have gained experience and knowledge in the following areas:

Obstetrics

- Mechanism of labour
- Vertex delivery - mechanism, medical assistance and complications
- Breech delivery – assisted vaginal and operative
- Vaginal operative delivery (forceps, ventous extraction)
- Caesarean section – indications, contraindications, technique and complications
- Disturbances of uterine contractile activity and mechanism of labour
- Multiple (multifetal) pregnancy
- Prenatal genetic counselling
- Basics of ultrasonography and dopplersonography in obstetrics
- Diagnostic methods of foetal jeopardy in pregnancy and during labour (ultrasonography, electronic foetal monitoring, stan, foetal pulse oximetry, biosensors, foetal acid-base status)
- Pregnancy-associated diseases
- Pregnancy-induced diseases
- Preeclampsia, eclampsia, hellp syndrome
- IUGR (intrauterine growth restriction)

Gynaecology

- Special diagnostic methods in gynaecology
- Basics of ultrasonography and dopplersonography in gynaecology
- Developmental anomalies of genitals
- Basics of paediatric gynaecology
- Inflammatory diseases of external and internal genitals
- Pelvic and back pain syndromes



Endocrinology

- Ovarian and menstrual cycles
- Sterile couple and infertility
- Basics of hormonal therapy in different periods of a woman's life (incl. Contraception and hrt)
- Polycystic ovary syndrome (pcos)
- Abnormalities of the menstrual cycle
- Endometriosis – diagnostic approach and therapy

Oncology

- Prebiptic diagnostic methods
- Benign tumours of genitals and breast
- Prevention, screening, diagnostics and therapy of cervical cancer
- Prevention, screening, diagnostics and therapy of corporal uterine cancer
- Prevention, screening, diagnostics and therapy of ovarian cancer
- Prevention, screening, diagnostics and therapy of breast cancer

Subject Guarantor: prof. Kamil Biringer, M.D., PhD.



Department:	Paediatrics
Duration:	4 weeks
Assessment:	state exam
Working hours:	8 hours per day

Aim

The aim of this placement is for students to work under direct supervision at various paediatric units, including intensive care and neonatology. Students complete anamnesis, physical examination, diagnostic procedures, and differential diagnosis. They assist with various diagnostic and therapeutic procedures, evaluates laboratory findings of biochemical examinations, X-rays, ECG recordings.

Training objectives and learning outcomes

At the end of the placement, students will have gained knowledge and skills in basic diagnostic and treatment algorithms for common childhood diseases.

- Preparing and working with medical records from admission to discharge
- Participation in diagnostic and therapeutic procedures (IV administering of drugs, collection of biological material, measurement of blood pressure, lumbar puncture, bone marrow collection)
- Approaches to the diagnosis and principles of differential diagnosis and treatment of pathological conditions in new-borns:

- Birth trauma and its treatment
- Congenital malformations of individual organ systems
- Neonatal acute diseases of the respiratory system and acute respiratory failure
- Congenital infections and neonatal sepsis
- Hypotrophy and extremely immature new-borns

-Approaches to the diagnosis and principles of differential diagnosis, and treatment of common pathological conditions in infants and children:

- Cardiovascular system and VVCH of the cardiovascular system
- Respiratory system (diseases of the upper and lower respiratory tract at different ages)
- Disorders of the immune system and allergic diseases
- Gastrointestinal tract (VVCH, acute diarrhoea in infancy, MAS, non-specific inflammatory bowel diseases, chronic eating disorders)
- Exanthematous infectious diseases
- Inflammatory diseases of the connective tissue
- Uropoietic system (VVCH, obstructive uropathy, infections, diseases associated with haematuria, proteinuria)
- Congenital CNS anomalies, neuroinfections and muscular dystrophies
- Blood disorders
- Tumours (leukaemia, lymphomas, haemangiomas, bone tumours, CNS)
- Endocrine system (diabetes mellitus, thyroid disease, puberty disorders, growth disorders, obesity)



- Diagnosis of life-threatening child conditions and provision of qualified care (most common causes of respiratory failure, intoxication, burns, shock, multiple organ dysfunction syndrome, emergency resuscitation)
- Experience with work in specialized outpatient clinics for children (sleep laboratory, endoscopy unit, functional diagnosis department, ultrasound imaging outpatient clinic, immunology and allergy outpatient clinic, pneumology outpatient clinic, nephrology outpatient clinic, diabetes outpatient clinic and metabolism outpatient clinic, oncology clinic)
- Evaluation of laboratory findings of biochemical examinations, X-rays and ECG

Subject Guarantor: prof. Mgr. Miloš Jeseňák, M. D., PhD., MBA

Department:	Surgery
Duration:	7 weeks (five weeks abroad, followed by two weeks of teaching at UHM)
Assessment:	state exam
Working hours:	8 hours per day

Aim

Working under direct supervision, students actively participate in diagnostic and therapeutic procedures and deal with elective and emergency cases. They gain an appreciation for the importance of interdisciplinary collaboration in diagnosis and in recommending surgical treatments.

Training objectives and learning outcomes

By the end of the placement, students will have rotated the patient wards, outpatient clinic, operating theatre and the ICU unit. They will have experienced a full patient journey; from admission to discharge and will have been involved in taking medical histories and preparing different types of medical documentation including pre and post-operative notes, discharge reports, consent forms, etc.

They will have actively participated in the following therapeutic and diagnostic procedures:

- Changing of bandages
- Urinal catheterisation
- Nasogastric tube insertion
- Application of intravenous medication and infusion therapy
- Blood transfusion
- Cannulation of blood vessels
- Correction of nutritional deficiencies and disorders of fluid and electrolyte balances
- Drainage and puncture of body cavities
- Endoscopic examination
- X-ray examination
- Evaluation of laboratory findings and comparison with the patient's status
- Indicators for surgical treatment
- Indicators for invasive and non-invasive imaging and diagnostic techniques
- Invasive and non-invasive procedures
- Principles of asepsis and antisepsis
- Preoperative preparation and the provision of postoperative care

Subject Guarantor: Assoc. prof. Juraj Miklušica, M.D., PhD.





COMENIUS
UNIVERSITY
BRATISLAVA

Jessenius Faculty of Medicine, CU

Malá Hora 4A

0306 01 Martin

Slovakia

Tel: +421 43 2633 114

Web: www.jfmed.uniba.sk

