



"Dunarea de Jos"

# University of Galati

Faculty of Medicine & Pharmacy

**Medicine (English)**



Curriculum  
&  
component overview



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**Dunarea de Jos University of Galati**  
**Faculty of Medicine and Pharmacy**

Study domain	Study cycle (1 <sup>st</sup> /2 <sup>nd</sup> )	Study programme	Year of study	Semester	Component title	Component code	Brief Description	Teaching Language	Credit units (ECTS)
Health	1 <sup>st</sup>	Medicine	1 <sup>st</sup>	Autumn	Anatomy and Embryology	1303.1OB01F	General embryology. Osteology, myology and arthrology of the head and neck. Osteology, myology and arthrology of the upper and lower limbs. Blood supply and innervation of the upper and lower limbs. Osteology and myology of the trunk. Blood supply and innervation of the upper and lower limbs. Osteology and myology of the trunk. Locomotor apparatus.	English	6
					Biochemistry	1303.1OB02F	Acid-base and hydro-electrolytic balance. Protein structure and function. Enzyme biochemistry. Vitamins biochemistry. Lipid structure and function. Structural organization and basic functions of the bio-membranes. Carbohydrates. Glucides structure and function. Introduction to substances metabolism. Biological oxidation. Krebs cycle. Lipids metabolism. Protein, amino acid and nucleic acid metabolism. Nucleoproteins. Ammonia metabolism. Intermediary metabolism.	English	4
					Physiology	1303.1OB03F	Structural organization of the living matter. Structural and functional organization of the cell. Intracellular water. Extracellular water. Trans-cellular water. Neuron physiology. Muscle cell physiology. Blood physiology. Haemoglobin. Blood types. White blood cells. Immunity. Platelets. Oral digestion: mastication, salivary secretion, deglutition. Gastric secretion and motility. Intestinal secretion and motility. Physiology of intestinal absorption. Exocrine secretions of the pancreas. Functions of the liver. Bile secretion and extra-hepatic bile duct motility. Physiology of human	English	4

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							vision. Physiology of taste. Physiology of hearing and equilibrium.		
					Genetics	1303.1OB04F	Genetics – the science of inheritance and variability. Storing genetic information: classification, structure, cellular organization, and structural polymorphism of DNA. Expression of genetic information – classical and modern concepts regarding the structure and function of the gene, transcription and translation, the genetic code, mutations, regulatory mechanisms. Transmission of genetic information. Inheritance and normal and pathological variability. Prevention and treatment of genetic diseases.	English	3
					Cell and Molecular Biology	1303.1OB05F	Cell structure. Molecular organization of the cell membrane. Membrane transport system. Cytosol and cytoskeleton structure and function. Cell motility. Organelles involved in cell synthesis and cell secretion. Energy related organelles. Organelles involved in intracellular digestion. Cell nucleus. Chromatin and chromosomes. Cell cycle and cell division. Extracellular matrix. Cell differentiation and cell aging. Cancer cell.	English	2
					Skills in Medical Work	1303.1OB06S	Basic patient care and communication. Laboratory services. Fundamental nursing techniques. Palliative care. Harvesting blood, urine, faeces, pharyngeal exudate, sputum by expectoration, urethral in man, purulent from lesions and cervical-vaginal. Administration of drugs. General Aspects. Basic cardiopulmonary resuscitation in adult. Basic cardiopulmonary resuscitation in children.	English	3
					Ethics and Academic Integrity	1303.1OB07C	Fundamental concepts and distinctions. Moral, immoral, non-moral. Moral principles, values and	English	2

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							rules. Moral autonomy and personal responsibilities. Immoral behaviour in the university. Ethics and Integrity in Scientific Research. Plagiarism. Writing an Academic Paper While Adhering to Ethical Standards.		
					Communication Skills in Medicine	1303.1OB08C	Doctor-patient relationship ethics. Establishing and building partnerships. Objective structured clinical examination. Communication skills. Diagnostic information gathering and delivery. Mourning doctor-patient relationship.	English	2
					Modern Languages (English, French) for Romanian Students/ Romanian for Foreign Students	1303.1OB13C	1. English Verb and verbal group. Verbs and their grammatical categories. Medical vocabulary. Criteria for classification of verbs. 2. French Conversational speaking. Professional communication.	English	2
					Physical Education	1303.1OB14C	Exercises to improve body posture.	English	2
					Fundamentals of Paraclinical Investigations <sup>1</sup> -or- Physiologic Basis of Nutrition <sup>1</sup>  (optionals <sup>1</sup> : choose 1 of 2 courses)	1303.1OP16D -or- 1303.1OP17D	Tissue Electrogenesis. Cardiac Electrical Phenomena. Genesis of Cardiac Vectors. Electrocardiogram. Blood. Hemodynamics. Exploring Breathing. Spirometry. Computed Tomography. Magnetic Resonance Imaging (MRI). Nuclear Medicine. Ultrasound. -or- Chemical composition of the human body: chemical selectivity of living organisms. Chemical composition of muscle, nervous, connective, epithelial tissues. Significance of various chemical elements in the economy of the body. Energy, the basis of vital processes. Macroergic bonds. ATP and CP. Energy	English	2

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							state of the cell. Digestion in the oral cavity. Stages and trends in the evolution of the digestive tract. Mastication. Salivary secretion: mechanism, regulation, digestive and non-digestive roles. Swallowing: times, regulation. Esophagus. Gastric digestion. Functional structure of the stomach. Motility of the digestive tract - generalities. Gastric motility and its regulation. Gastric secretion: mechanism, regulation. Gastric juice - composition and role. Intestinal digestion. Functional structure of the small intestine. Motility of the small intestine. Exocrine pancreas secretion: mechanism, regulation, composition. Pancreatic juice enzymes. Hepatic secretion (bile): composition, properties, regulation, evacuation. Intestinal secretion. Physiology of the large intestine. Structure of the large intestine wall. Absorptive function of the colon. Fermentation and putrefaction processes. Colonic motility. Defecation. Characteristics of digestion and absorption in newborns. Growth and development of the intestinal epithelium. Metabolism. The role of the liver in intermediary metabolism. Regulation of food consumption.		
				<b>Spring</b>	Anatomy and Embryology	1303.1OB01F	Morphogenesis of the pharyngeal apparatus. Anatomy of the respiratory system. Anatomy of the cardiovascular system. Anatomy of the digestive system. Anatomy of the excretory system. Anatomy of the reproductive system.	English	6
			Biochemistry		1303.1OB02F	Hormones biochemistry. Overview of hypothalamic hormones. Overview of hypophyseal hormones. Overview of thyroid hormones. Overview of adrenal	English	5	

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							glands hormones. Overview of pancreatic hormones. APUD system. Interferons. Blood biochemistry. Enzymes biochemistry. Lipoprotein metabolism. Complement system. Immunoglobulins. Liver biochemistry. Bile biochemistry.		
					First Aid	1303.1OB09S	Initial assessment of emergency department patients. Laboratory tests interpretation. Routes of drug administration. Basic first aid procedures. Major infectious emergencies, endocarditis, meningoenephalitis, infections in immunocompromised patients, nosocomial infections. The use of antibiotics in emergency. Acute intoxications. Pain syndrome in emergency.	English	4
					Biophysics	1303.1OB10F	Introduction to molecular biophysics. Thermodynamics of the biological systems. Cell biophysics. Introduction to biomechanics and bio-cybernetics. Introduction to environmental biophysics.	English	3
					Medical Informatics and Biostatistics	1303.1OB11C	Hardware/ software. Formulas and functions in Excel. Basics of statistics. Probability and statistics.	English	3
					Scientific Research Methodology	1303.1OB12C	Purpose, justification, qualities and stages of a research study. Preparing the research study. Bibliographic documentation. Defining the phenomenon. Formulation of the topic of study. Managerial aspects. Project elaboration. Collecting information. Target population. Sample. Types of data collection. Methods of data collection. Research Tools. Data processing. Processing tools. Descriptive statistics. Inferential statistics.	English	3

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							Frequency measures. Indicators. Data analysis and interpretation. Statistic results interpretation. Errors. Presentation of research results. Tables. Graphics. Writing. Structure of an article. Bibliography (list of references, quote in text). Oral presentation of a scientific paper. Ethics in research. Principles of Ethics in scientific research on human subjects. Ethics in scientific research on animals. Ethics in statistical data processing.		
					Modern Languages (English, French) for Romanian Students/Romanian for Foreign Students	1303.1OB13C	1. English Basic medical terminology. Verb categories. Nominal categories. Lexicon/ vocabulary. Phrase structure. General correspondence guidelines. Oral communication: presentations and public speaking. 2. French Conversational speaking. Professional communication.	English	2
					Physical Education	1303.1OB14C	Athletics.	English	2
					Medical Practicum	1303.1OB15S	Doctor-patient relationship. Deontological guidelines. Manipulation of patient records. Preparing patients for physical examination. Clinical shadowing. Patient history taking and physical examination.	English	2
					Hydro-electrolytic and Metabolic Equilibriums in Medical Practice <sup>1</sup>  -or-	1303.1OP18S -or- 1303.1OP19S	Acido – base balance. Hydroelectrolytic balance. Sodium metabolism. Potassium metabolism. Chlorine metabolism.  -or-  Genomic evaluation at tissue level. Microarray study. Molecular profile evaluation at blood level.	English	2

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					Genomics. Clinical Bioinformatics <sup>1</sup>  (optionals <sup>1</sup> : choose 1 of 2 courses)		PCR array study. Serum protein evaluation. Fast Quant array study.		

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Health	1 <sup>st</sup>	Medicine	2 <sup>nd</sup>	Autumn	Physiology	1303.2OB01F	Morpho functional characteristics of the muscle. The morpho-functional particularities of the heart. Mechanism of urine formation. Renal excretion. Urination and diuresis. Regulation of kidney function. Morpho functional characteristics of the endocrine system. Physiology of the pituitary gland. Physiology of the thyroid gland. Physiology of the parathyroid gland. Physiology of the endocrine pancreas. Physiology of the adrenal glands. Physiology of the gonads. Functional structure of the ovary. Neuronal physiology. Functions of the parasympathetic and sympathetic nervous system. Physiology of the spinal cord. Physiology of the cerebral trunk. Cerebral function. Somatosensory system.	English	5
					Microbiology (Bacteriology. Virology. Parasitology)	1303.2OB02F	Introduction to Microbiology. Structure of bacteria. Bacterial nutrition. Bacterial growth. Bacterial genetics. Host – bacteria relationship. Normal microbial flora. Aerobic Gram-positive cocci. Anaerobic Gram-positive cocci. Gram negative cocobacilli. Gram negative rods. Gram positive spore forming rods. Gram positive Non – spore forming rods.	English	5
					Histology	1303.2OB03F	Function and cell types of epithelial tissue. Connective tissue: types and functions. Cartilaginous tissue. Osseous tissue. Haematopoiesis. Muscle tissue. Nervous tissue. Histology of the cardiovascular system.	English	4
					Clinical Biochemistry	1303.2OB04D	Diagnostic value of enzymes - importance, general aspects, classification of enzymes involved in diagnosis and treatment monitoring. Biochemical	English	5

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							exploration of the liver. Biochemical exploration of the kidney. Diagnosis of production and destruction of red blood cells. Haemostasis. Oligoelements. Metabolism of iron and zinc. Metabolism of copper, phosphorus and selenium.		
					Behavioural Sciences. Medical Psychology. Medical Sociology	1303.2OB05C	What is sociology? Key concepts in medical sociology. Social determinants of health. Health and behaviour. The study of behaviour. Abnormal behaviour. The concept of quality of life in healthcare. Unhealthy lifestyle. Health in childhood, adolescence and adulthood. Profile and competencies for the European graduating healthcare professional. Doctor – patient relationship. Illness behaviour. Aspects of communication in medical life. Confidentiality and consent in healthcare. Ethics and jurisprudence. Stress and professional burnout among healthcare providers.	English	4
					Anatomy and Embryology	1303.2OB06F	Anatomy of the central nervous system. Special senses anatomy. Functional organization principles. Topography of presynaptic autonomic motor neurons. Spinal sympathetic centres. Parasympathetic centres. Topography of postsynaptic autonomic neurons. The concept of intermediate and terminal ganglia. Higher centres controlling the autonomic system.	English	5
					Physical Education	1303.2OB08C	Exercises to improve body posture.	Romanian	2
					Basic Principles in Surgical Sutures <sup>1</sup>  -or-	1303.2OP10S  -or-	The principles of tissue suturing and the classification of sutures. Wound healing. Hypertrophic and keloid scars. Suturing instruments and materials. Physiology of wound healing. Surgical	English	2

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					Medical Devices and Equipment <sup>1</sup>  (optionals <sup>1</sup> : choose 1 of 2 courses)	1303.2OP11S	healing and suture removal. Types of knots. Laparoscopic knots, Roeder knot. Types of sutures. Suturing of parenchymal viscera. Suturing of the abdominal wall. Anastomoses of the digestive system. Suturing of tendons and muscles. Suturing of blood vessels. Suturing of nerves.  -or- Medical equipment used for functional explorations: Stethoscopes, sphygmomanometers, and glucometers; Electrocardiography and electroencephalography; Ultrasound imaging; Endoscopes; Equipment for medical analyses: biochemistry analysers, centrifuges, equipment for homogenization and mixing, sterilization, decontamination and disinfection devices, optical instruments and devices, refrigerators and freezers, electrophoresis systems, microtomes, analysers, ESR devices, spectrophotometers. Medical imaging equipment: radiology equipment, fluoroscopy, mammography, bone densitometers, computed tomography, magnetic resonance imaging. Medical equipment in dermatology: dermatoscopes, electrosurgery and radiofrequency equipment, UV diagnostic and phototherapy systems, photodynamic therapy, laser therapy. Medical equipment in ophthalmology: optotype, autorefractor, trial lens set, visual field examination devices, tonometers, ophthalmoscopes, ultrasound imaging, tomographs. Medical equipment in ENT: diagnostic instruments and devices, equipment used in rhinology, surgical instruments and devices, laser.		

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							Surgical equipment: electrosurgery devices, electrocautery, radiocautery, cryosurgery equipment, ultrasonic dissectors, radiofrequency devices, tourniquet systems, surgical suction devices.		
				Spring	Physiology	1303.2OB01F	Morpho functional characteristics of the heart. Cardiac muscle and electrical activity. Cardiac revolution. Electrocardiogram. Cardiac debit. Principles of cardiac hemodynamic. Capillary hemodynamic. Venous circulation. Lymph circulation. Physiology of the respiratory system. Phases of breathing. Transport of respiratory gases by blood. Morpho-functional particularities of the kidney. Mechanism of urine formation. Renal mechanisms. Morpho-functional particularities of the endocrine glands. Physiology of the thyroid gland. Physiology of the endocrine pancreas. Functions of the sympathetic and parasympathetic nervous systems.	English	5
					Microbiology (Bacteriology. Virology. Parasitology)	1303.2OB02F	Genus Mycobacterium. Genus Nocardia. Spirochetes (genus Treponema, genus Borellia, genus Leptosira). Genus Mycoplasma. Genus Bartonella. Genus Chlamydia. Genus Rickettsia. Viruses: structure, replication, taxonomy. Orthomyxoviruses. Paramyxoviruses. Coronaviruses. Adenoviruses. Measles viruses. Hepatitis viruses. Retroviruses. Papillomaviruses. Arboviruses. Roboviruses. Picornaviruses. Rabies virus. Herpes viruses. Rotaviruses. Nosocomial infection. Medical parasitology – association between parasite and host. Effect of parasite on the host. Classification of	English	5

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							medical parasitology. Protozoa (amoebiasis, pathogenic flagellates, ciliates, Sporozoa). Cestodes. Treatodes. Nematodes. Ectoparasites. Fungal infections.		
					Histology	1303.2OB03F	Histology of the central nervous system. Lymphopoietic organs. Histology of sensory organs. Histology of the endocrine system. Histology of the digestive system. Histology of the respiratory system. Histology of the urinary system. Histology of the reproductive system. Skin and skin appendages.	English	4
					Clinical Biochemistry	1303.2OB04D	Biochemical exploration of the liver. Biochemical exploration of the kidney. Diagnosis of production and destruction of red blood cells. Haemostasis. Oligoelements. Metabolism of iron and zinc. Metabolism of copper, phosphorus and selenium.	English	5
					Behavioural Sciences. Medical Psychology. Medical Sociology	1303.2OB05C	Ethical and moral values in the academic environment relevant to the medical system/organizations (Moral integrity, Collegiality, Loyalty, Respect and tolerance, Professionalism, Honesty and intellectual fairness, Justice and equity, Transparency, Professional and social responsibility, Academic freedom, Personal autonomy, Merit). University ethics codes (principles, values, procedures). Ethics and integrity in biomedical research (Informed consent, privacy and confidentiality, vulnerable individuals/groups, risk minimization, and benefit maximization). Good conduct in scientific research. The University Ethics Committee. Violations and sanctions (the relationship between medical ethics and the issue of sanctions).	English	4

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					Primary Health Care	1303.2OB08D	Family medicine. Physical examination. Common respiratory diseases in family medicine: types, diagnosis and treatment. Common cardiovascular diseases in family medicine: types, diagnosis and treatment. Common digestive diseases in family medicine: types, diagnosis and treatment. Common rheumatic diseases in family medicine: types, diagnosis and treatment. Common hematologic diseases in family medicine: types, diagnosis and treatment. Common renal diseases in family medicine: types, diagnosis and treatment. Common neurological diseases in family medicine: types, diagnosis and treatment. Mental health. Monitoring of pregnancy.	English	3
					Specialized Medical Practicum	1303.2OB09S	Initial assessment of emergency department patients. Laboratory tests interpretation. Routes of drug administration. Basic first aid procedures.	English	2
					Genetic, Molecular and Immunological Diagnosis - Clinical Implications <sup>1</sup>  -or-  Artificial Intelligence in Medicine <sup>1</sup>	1303.2OP12S  -or-  1303.2OP13S	1Introductory notions on the pathogenesis of malignant haematological disorders. Types of genetic abnormalities and their role in haematological pathology. From chromosomal abnormalities to gene mutations: types of alterations, mechanisms of occurrence, examples in human pathology. Genetics: the science of heredity and variation. Genetic information storage. Expression of genetic information. Transmission of genetic information. Heredity and variability: between normal and pathologic. Genetic disorders prevention and treatment. Diagnosis of chronic lymphoproliferative disorders. Study of DNA	English	2

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					(optionals <sup>1</sup> : choose 1 of 2 courses)		<p>content. Diagnosis of paroxysmal nocturnal haemoglobinuria.</p> <p>-or-</p> <p>Introductory discussion: Present and future of AI. AI algorithms and strategies and their usefulness in Medicine. Drug synthesis and AI. Machine Learning techniques &amp; tools for non-programmers, with applications in medicine. Data Science in Medicine. Local projects using AI in Medicine. Working with intelligent machines (exploring the concept of machine intelligence).</p>		

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Health	1 <sup>st</sup>	Medicine	3 <sup>rd</sup>	Autumn	Pathophysiology	1300.3OB02F	General nosology. The role of pathogenic factors in disease evolution. Cause and effect interrelation in disease evolution. Genetics: the science of heredity and variation. Genetic information storage. Expression of genetic information. Transmission of genetic information. Heredity and variability: between normal and pathologic. Genetic disorders prevention and treatment. Pathophysiology of protein metabolism disorders. Pathophysiology of lipid metabolism disorders. Pathophysiology of glucide metabolism disorders. Pathophysiology of acid base imbalance. Pathophysiology of fluid and electrolyte imbalances. Pathophysiology of calcium and phosphate metabolism. Pathophysiology of shock. Pathophysiology of tensional homeostasis. Cardiac arrest. Rhythm and conduction disturbances. Pathophysiology of the nervous system. Pulmonary disease. Cardiovascular disorders-heart disease. Gastrointestinal diseases. Liver diseases. Disorders of the exocrine pancreas.	English	4
					Pharmacology	1300.3OB03F	Definition of pharmacology. Drug dosage regimen. Dose – response relationship. Drug structure – activity relationship. Factors affecting drug action. Pharmacokinetics and pharmacodynamics. How drugs affect synaptic transmission. Nicotine and nicotine – induced effects. Direct cholinomimetic agents. Indirect cholinomimetic agents. Muscarinic agents. Ganglion – blocking agents.	English	4

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					Pathological Anatomy	1300.3OB01F	Introduction to morphopathology study. Circulatory disorders. Heart. Infarction. Bleeding (causes, forms, evolution, consequences). Limfostaza. Exudate. Transudation. Pathological anatomy of irreversible shock. Dystrophic damage. General notions on dystrophic processes. Fundamental cellular alterations; reversible and irreversible processes. Hydroprotic dystrophies; primary and secondary amyloidosis; hyalinosis; fibrinoid dystrophy. Inflammation. Tumors. Immune system disorders.	English	4
					Medical Semiology	1300.3OB04D	Introduction to medical semiology: definition, fundamental concepts, clinical reasoning. Habitus: height and variations, body weight and variations, attitude, walking, abnormal movements, somatotype, facies and its changes. Cutaneous semiology: pruritus, elemental skin lesions, colour changes, e.g. redness, cyanosis, jaundice, nail, hair and sweat semiology. Consciousness and its disturbances: definition, states of limitation of consciousness, loss of consciousness. The sleep and its disorders: definition, dyssomnia, parasomnia. Asthenia: definition, clinical types. Food behaviour and eating disorders: definition, hyperphagia, anorexia. Hydronic balance and its disorders: definition, oedema, dehydration. Body temperature and its changes: definition, fever, hyperthermia, hypothermia. Headache: definition, clinical types. Vertigo: definition, clinical types. Semiology of respiratory system. Chest topography. Chest pain. Cough. Expectoration. Hemoptysis. Dyspnea. Paraclinical investigations in respiratory diseases.	English	6

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							Pulmonary hyperinflation, pulmonary condensation syndromes, cavitary syndrome. Major respiratory syndromes: broncho- obstructive syndrome, pulmonary condensation syndrome. Main respiratory syndromes: pleural syndrome, pulmonary arterial hypertension syndrome, respiratory failure, mediastinal syndrome. Particularities of anamnesis in cardiovascular diseases and main symptoms: pain, palpitations, dyspnoea, cough, syncope, lipophilia, shock and collapse. Paraclinical investigations in cardiovascular diseases. The main vascular syndromes: acute and chronic peripheral ischemia syndrome, endolymphatic insufficiency syndrome, hypertension and hypotension. Main cardiac syndromes: rhythm and conduction disorders; semiology of valvular heart diseases (mitral, aortic, tricuspid and pulmonary); coronary syndromes; pericardial syndromes and myocardial syndromes; heart failure syndrome.		
					Surgical Semiology	1300.3OB05D	Asepsis and antisepsis: aseptic technique; classic and modern methods of antisepsis. Surgical preparation. Organization of surgical services and operating room. The Shock: etiopathogenesis, pathophysiology, symptomatology, therapeutic measures. Haemorrhage: classification, surgical aspects; haemostasis; blood transfusion in surgery. Infections in surgery. Inflammation. Localized and generalized infections. Acute and chronic infections. Hand infections. Principles of treatment. Antibiotics:	English	6

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							a review of the basics. Nosocomial infections. Closed trauma – soft tissue contusions. Penetrating trauma: injuries - anatomopathological classification and treatment principles. Polytrauma. Benign and malignant tumours - surgical aspects: general features, precancerous conditions, diagnostic and treatment principles, multiple tumours, screening, monitoring and postoperative care of oncological patients. Surgical semiology in head and neck pathology. Anatomical - clinical signs and symptoms in head and neck surgery. Surgical semiology of thorax. Anatomical – clinical signs, signs and symptoms in thoracic surgery. Surgical Patient Assessment.		
					Immunology	1300.3OB06F	Immunology - Introductory Topics; Terminology. Cellular and humoral components of the Immune System. T lymphocytes. B lymphocytes. The complement system. The major histocompatibility complex. Cellular distribution and MHC I and MHC II structure. Antigens. Immunoglobulins. Immune response. Immune response modulation. Immunological tolerance. Antiviral, antibacterial, antimycotic and antiparasitic immunity. Vaccines. Hypersensitivity - definitions, classification, general notions.	English	3
					Addiction Medicine <sup>1</sup>  -or-  Disaster Medicine <sup>1</sup>	1300.3OP10S  -or-  1300.3OP11S	Consumption and addiction to alcohol and other drugs. Explanatory models and scientific theories regarding etiology, evolution and therapeutic-recovery approach to addictions. Dependence/codependence, tolerance, withdrawal. Classification of drugs, addictions, with substantial support/	English	3

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					(optionals <sup>1</sup> : choose 1 of 2 courses)		without substantial support. Prevention of alcohol and other drug use and addiction. Addiction therapy and rehabilitation: approaches and strategies, therapies, models, methods and tools.  -or-  Definition of disaster, types of disasters, common pathology encountered in disasters. Updated intervention protocols for traumatized patients: ETC, ERC, EUSEM. Victim triage START, victim collection, the role of vital signs in triage decision-making. Special situations in medical triage. Red Plan, White Plan, principles of intervention, Incident Command System, communication with the media. Allocation of resources in accidents with multiple victims. Methods of evacuation: performed by personnel. Specialized ground evacuation, air evacuation, water evacuation. Extrication and immobilization of the polytrauma patient. Simulation exercise for an accident with multiple victims.		
				Spring	Pathophysiology	1300.3OB02F	Pathophysiology of the respiratory system. Pathophysiology of the digestive system. Pathophysiology of liver failure. Pathophysiology of chronic renal failure. Pathophysiology of acute renal failure. Pathophysiology of erythrocyte disorders. Pathophysiology of leukocyte disorders. Pathophysiology of bleeding and clotting. Immune tolerance and autoimmune diseases. Pathophysiology of toxic haematological syndromes. Pathophysiology of toxic hemodynamic	English	3

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							insufficiency. Pathophysiology of toxic neurological syndrome. Pathophysiology of internal secretion glands.		
					Pharmacology	1300.3OB03F	Definition of Pharmacology. Active pharmacodynamic substance, general characteristics. Affinity and intrinsic activity (efficacy). Mechanisms of action (physical, chemical, biochemical). Direct, indirect and mixed mechanisms. Agonists and antagonists. Drug dose and dosage. Dose-effect correlation. Correlation of chemical structure-pharmacodynamic action. Factors affecting drug action. Pharmacokinetics. Drug interactions in the pharmacodynamic phase. Drug interactions at the pharmacokinetic stage. Active pharmacodynamic substances effect on synaptic transmission. Functional phases of cholinergic mediation. Nicotine - nicotinic effects. Direct acetylcholine mimetics. Reversible indirect acetylcholine mimetics. Psycho-motor stimulants. Psychodysleptics. Antidepressants. Narcotics. Sedatives. Hypnotics. Anxyolitics. Neuroleptics. Anticonvulsants. Antiepileptic. Local anaesthetics. Histamine and H1 antihistamines	English	3
					Pathological Anatomy	1300.3OB01F	Pathology of the Cardiovascular System. Pathology of the Respiratory System. Pathology of the Digestive Tract. Pathology of the Urinary System. Pathology of the Genital System. Pathology of the Lymphatic System. Pathology of the Nervous System. Pathology of the Sensory Organs. Pathology of the Endocrine Glands. Soft Tissue Patology.	English	4

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Study domain	Study cycle (1 <sup>st</sup> /2 <sup>nd</sup> )	Study programme	Year of study	Semester	Component title	Component code	Brief Description	Teaching Language	Credit units (ECTS)
					Medical Semiology	1300.3OB04D	Superior gastrointestinal tract semiology: clinical symptoms and signs. Oesophageal syndromes, gastro-duodenal syndromes. Inferior gastrointestinal tract semiology: clinical symptoms and signs, paraclinical investigation of the lower digestive tract, diarrhoea syndrome, constipation, lower digestive haemorrhage, recto / sigmoid syndrome. Semiology of the liver, gall bladder and pancreas: symptoms and clinical signs. Hepato-bilio-pancreatic syndromes: jaundice syndrome, liver failure syndrome, portal hypertension syndrome, biliary colitis, pancreatic syndromes. Semiology of the urinary system. Renal symptoms and clinical signs. The main renal and urinary syndromes: nephritic syndrome, nephrotic syndrome, tubulo-interstitial syndrome, acute and chronic renal failure syndrome, syndromes associated with renal function replacement therapy. Osteo-articular semiology. The main rheumatological syndromes. Haematological semiology. Anaemic syndrome: symptoms and clinical signs, anaemia classification. Leukaemia and lymphoma: symptoms and clinical signs. Leukaemia and lymphoma: paraclinical exploration. Haemorrhagic syndromes: symptoms and clinical signs, paraclinical exploration.	English	5
					Surgical Semiology	1300.3OB05D	Abdominal surgical semiology. Anatomical-clinical signs, signs and symptoms in abdominal surgery. Abdominal syndromes. Hernias of the anterior abdomen wall. Eventration and evisceration: generalities, topographic forms, diagnosis, complications, principles of treatment. Surgical	English	5

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							pathology of the breast. Breast benign conditions: acute and chronic inflammatory diseases, mammary dysplasia, tumours. Breast cancer: diagnosis, staging, place of surgery in multimodal treatment. Surgical pathology of thyroid and parathyroid. Abdominal trauma: acute abdomen.		
					Radiology - Medical Imaging	1300.3OB07D	Introduction to radiology and medical imaging. Diagnostic imaging of respiratory diseases. Diagnostic imaging of cardiovascular diseases. Diagnostic imaging of the gastrointestinal tract. Diagnostic imaging of liver, gall bladder and pancreas diseases. Diagnostic imaging of urinary system diseases. Diagnostic imaging of bone pathology. Diagnostic imaging in medical and surgical specialties.	English	4
					Allergology and Clinical Immunology	1300.3OB08D	Diagnosis and treatment of allergic diseases. Allergic diseases: allergic rhinitis, allergic conjunctivitis, eczema, contact dermatitis, asthma, food allergy, drug allergy, allergy caused by insect stings and anaphylaxis. Immune response. Regulation of the immune response. Immunological tolerance. Vaccines: definition, classification, composition, methods of production, clinical applications.	English	2
					Specialized Medical Practicum	1300.3OB09S	Harvest venous blood. Nose-gastric tube insertion. Electrocardiogram. Continuous monitoring of vital signs. Patient consent for treatment and investigation. Clinical observation form. Discussing a therapeutic plan. Writing a medical prescription. Preparing and supervising patient diet. Patient compliance or non-compliance in treatment. Wound treatment – cleaning, suturing, dressing. Medical	English	2

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							assistance measures in the main types of surgical pathologies - acute surgical abdomen, upper gastrointestinal bleeding, intestinal obstruction, etc. Post-operative monitoring of the surgical patient.		
					Immunohistochemistry <sup>1</sup>  -or-  Genetic, Molecular and Immunological Diagnosis- Clinical Implications <sup>1</sup>  (optionals <sup>1</sup> : choose 1 of 2 courses)	1300.3OP12S  -or- 1300.3OP13S	General principles of immunohistochemistry. Immunohistochemical technique. The chemical basics of immunostaining. Working systems. Visualization of the final reaction product. Working systems in immunohistochemistry. Visualization of the final reaction product. Immunomorphological profile of epithelial tissues. Cytokeratins. Immunohistochemical markers of glandular epithelia. Immunomorphology of connective tissues. Fundamental markers and specific markers of muscle, cartilage, and bone tissues. Immunomorphological particularities of nervous tissue and components of the neuroendocrine system. Nervous tissue: markers for glial cells, nerve fibres, satellite cells. Cell cycle. Cell proliferation markers. Hematopoietic bone marrow and blood: immunohistochemical markers. Immunomorphology of the immune response. Antigen-presenting cells. Effector cells – lymphocytes: classification, morphology, immunological profile, and functions. The thymus and specific pathology. Normal and pathological angiogenesis. The molecular basis of angiogenesis. Methods for specific identification of blood vessels. Prognostic and therapeutic implications of angiogenesis. Lymphatic vessels, normal and pathological lymphangiogenesis.	English	2

<sup>1</sup>Optional disciplines. The optional disciplines are chosen by the faculty at the beginning of each academic year depending on availability.

Study domain	Study cycle (1 <sup>st</sup> /2 <sup>nd</sup> )	Study programme	Year of study	Semester	Component title	Component code	Brief Description	Teaching Language	Credit units (ECTS)
							<p>-or-</p> <p>Introduction to the pathogenesis of haematological malignancies. Types of genetic abnormalities and their role in haematological pathology. From chromosomal abnormalities to gene mutations: types of changes, mechanisms of occurrence, and examples in haematological pathology. Cytogenetic diagnostic techniques. Clinical cytogenetics - normal and pathological human karyotype. Clinical applications in haematology. FISH technique; applications in haematology. High performance techniques. Microarray methodologies: introduction, principle of the method, clinical applications in haematology. Sequencing technologies - clinical applications in haematology. Next Generation Sequencing – applications in haematological diseases. PCR technology: introduction, the principle of the method, examples of applications in haemato-oncological diagnosis. Applications of genetic and molecular diagnosis methods in non-oncological haematological diseases: congenital thrombophilia, congenital haemophilia, and thalassemia</p>		

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Health	1 <sup>st</sup>	Medicine	4 <sup>th</sup>	Autumn	General Surgery	1300.4OB01S	Surgical history and the history of the Surgical Clinic of the hospital. Surgical infection. Septic shock. Contusions, eschars. Wound healing. Surgical semiology of arterial and venous pathology. Thromboembolic disease in surgical pathology. Surgical Pathology of the Thyroid. Breast Surgical Pathology. Oesophageal disease surgery. Treatment of gastric-duodenal ulcer and postoperative complications. Treatment of benign tumours and postoperative complications. Treatment of malignant tumours and postoperative complications. Treatment of surgical diseases of the small intestine. Treatment of surgical diseases of the large intestine. Anorectic surgical pathology. Other surgical diseases: pilonidal disease, ischiorectal fossa infections. Fundamentals of transplant surgery.	English	6
					Orthopaedics and Traumatology	1300.4OB02S	Semiology of traumatic and non-traumatic lesions of the musculoskeletal system. Treatment methods. Fractures of the upper limb. Luxuries and other joint lesions of the upper limb. Fractures of the vertebral column and basin. Fractures of the lower limb. Traumatic hip dislocation, knee trauma (recent and old ligament lesions, meniscal lesions, extensors lesions, knee dislocation). Ankle sprain. Pseudarthrosis, vicious callus, open fracture. Other complications of musculoskeletal system injuries. Polytrauma. Bone and joint infections. Acute and chronic osteomyelitis. Osteoarticular tuberculosis. Parasitic disease of bones and joints. Bone tumours: classification, therapeutic principles. Benign bone tumours. Bone malignant primitive tumours.	English	5

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Study domain	Study cycle (1 <sup>st</sup> /2 <sup>nd</sup> )	Study programme	Year of study	Semester	Component title	Component code	Brief Description	Teaching Language	Credit units (ECTS)
							Secondary bone cancer. Essential bone cyst. Fibrous dysplasia. Congenital malformations of the skeletal system. Congenital hip dislocation. Congenital pseudarthrosis of the tibia. Epiphysiolysis and congenital coxa vara. Spinal deviations (scoliosis, cifosis, cifoscoliosis). Osteonecrosis, discopathy, static foot deformities. Degenerative diseases of the loco-motor apparatus.		
					Medical Oncology	1300.4OB03S	Carcinogenesis; Genetic factors in cancer. Descriptive and analytical epidemiology of cancer. Risk factors for cancer. Prognostic factors in cancer. Principles and methods of cancer diagnosis Prevention and early detection of cancer. Staging classification in cancer. Oncology emergencies. Basics of chemotherapy and hormonal treatment. Biological therapy in cancer. Basics of radiotherapy treatment. Cancer in children. Clinical trials in oncology and evaluation of therapeutic results. Clinical trials in oncology and evaluation of therapeutic results. Palliative treatment in cancer. Dyspnea, occlusion and other aspects of palliative care. Psychological and psychosomatic disorders in oncology patients. Breast cancer – principles of diagnosis and treatment. Bronchopulmonary cancer – principles of diagnosis and treatment. Colorectal and gastric cancer – principles of diagnosis and treatment. Cervical cancer. Cancer in the ENT sphere. Prostate cancer.	English	3
					Haematology	1300.4OB04S	Morphology and physiology of the hematopoietic system. Normal haematopoiesis. Anaemia. Classification of anaemia. Iron deficiency anaemia.	English	3

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Study domain	Study cycle (1 <sup>st</sup> /2 <sup>nd</sup> )	Study programme	Year of study	Semester	Component title	Component code	Brief Description	Teaching Language	Credit units (ECTS)
							Folic acid deficiency anemia. Aplastic anaemia. Anaemia in chronic kidney diseases. Haemolytic anaemias. Malignant hemopathies. Classification. Ethology. Pathogenesis. Acute leukaemia. Chronic granulocytic leukaemia. Idiopathic myelofibrosis. Polycythemia vera. Chronic lymphocytic leukaemia. Malignant paraproteinemic hemopathies. Multiple myeloma. Waldenström Macroglobulinemia. Malignant lymphomas. Hodgkin's lymphoma. Non-Hodgkin's Lymphomas. Bleeding disorders. Immune thrombocytopenia. Hereditary haemorrhagictelangiectasis. Haemophilia. Von Willebrand disease.		
					Anaesthesia and Intensive Care Medicine	1300.4OB05S	General anaesthesia. Inhaled anaesthetics. Intravenous anaesthetics. Analgesic. Muscle relaxants. Stages of anaesthesia. Complications of anaesthesia. Loco-regional anaesthesia: definition, substances, indications, contraindications, complications. Respiratory insufficiency. Hypoxemic respiratory failure. Hypercapnic respiratory failure. Oxyhaemoglobin dissociation curve. Principles of treatment. Shock: causes, symptoms, diagnosis, treatment. Acute kidney failure: causes, symptoms, diagnosis, treatment. Acid-Base balance: definition, etiopathogenesis, metabolic acidosis, metabolic alkalosis, respiratory acidosis, respiratory alkalosis, treatment principles.	English	4
					Urology	1300.4OB06S	Urological diagnosis: anamnesis, clinical examination, paraclinical explorations. Urogenital congenital abnormalities. Testicular ectopia. Urological trauma. Non-specific urinary tract	English	3

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							infections. Non-specific genital infections. Urogenital tuberculosis. Urinary lithiasis. Kidney failure in urology. Urinary tract tumours. Kidney tumours. Benign prostatic hyperplasia. Prostate cancer. Hydrocele. Varicoceles. Pathology of the penis. Neurogenic bladder. Urethral strictures. Renal impairment in urology. Andrology. Female urology.		
					Clinical Pharmacology	1300.4OB07D	Definition of Pharmacology. Active pharmacodynamic substance, general characteristics. Affinity and intrinsic activity (efficacy). Mechanisms of action (physical, chemical, biochemical). Direct, indirect and mixed mechanisms. Agonists and antagonists. Drug dose and dosage. Dose- effect correlation. Correlation of chemical structure-pharmacodynamic action. Factors affecting drug action. Pharmacokinetics. Drug interactions in the pharmacodynamic phase. Drug interactions at the pharmacokinetic stage. Active pharmacodynamic substances effect on synaptic transmission. Functional phases of cholinergic mediation. Nicotine - nicotinic effects. Direct acetylcholine mimetics. Reversible indirect acetylcholine mimetics. Psycho-motor stimulants. Psychodysleptics. Antidepressants. Narcotics. Sedatives. Hypnotics. Anxyolitics. Neuroleptics. Anticonvulsants. Antiepileptic. Local anaesthetics. Histamine and H1 antihistamines.	English	4
					Interventional Radiology <sup>1</sup>	1300.4OP17S	Introduction to radiology and medical imaging. Diagnostic imaging of respiratory diseases. Diagnostic imaging of cardiovascular diseases. Diagnostic imaging of the gastrointestinal tract.	English	2
					-or-	-or-			

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					Transfusion Therapy and Stem Cell Transplantation <sup>1</sup>  (optionals <sup>1</sup> : choose 1 of 2 courses)	1300.4OP18S	Diagnostic imaging of liver, gall bladder and pancreas diseases. Diagnostic imaging of urinary system diseases. Diagnostic imaging of bone pathology. Diagnostic imaging in medical and surgical specialties.  -or- Introduction to haematopoiesis, definitions and determination of blood groups. Difficulties in determining blood groups and pre-transfusion compatibility tests. Blood products - types, preservation, principles of administration, blood donation. Immunological and non-immunological post-transfusion adverse reactions. General indications of autologous and allogeneic transplantation stem cells in regenerative medicine. Principles of conditioning treatment. Transfusion support in stem cell transplant patients. Supportive therapy in stem cell transplantation. Complications in post-transplant patients. Restoring immunity after stem cell transplantation. Molecular monitoring after transplantation (BMR and Chimerism). Post-transplantation stem cell immunotherapy		
				Spring	General Surgery	1300.4OB01S	Surgical liver pathology. Surgical pathology of the bile ducts. Surgical pathology of the pancreas. Chest trauma. Surgical pleuro-pulmonary pathology. Abdominal trauma. Varicocele and hydrocele. Bariatric surgery. Peritonitis. Intestinal occlusions. Arterial pathology. Varicose disease. Acute venous thrombosis. Lymphatic pathology.	English	4
					Internal Medicine –	1300.4OB08S	Oesophageal syndrome. Gastroesophageal reflux disease. Esophagitis. Hiatal hernia. Oesophageal	English	5

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					Gastroenterology		motility disorders. Oesophageal diverticulum. Oesophageal tumours. Gastric and duodenal ulcers. Gastritis and gastropathy. Gastric cancer. Gastrointestinal bleeding. Irritable bowel syndrome. Pathology of the small intestine. Malabsorption Syndrome. Inflammatory bowel disease. Tumours of the small intestine. Colonic diverticulosis. Colonic polyps. Colorectal cancer. Biliary pathology. Icteric syndrome. Gallbladder lithiasis. Acute and chronic cholecystitis. Primary sclerosing cholangitis. Gallbladder tumours. Chronic viral hepatitis. Autoimmune hepatitis. Hepatic cirrhosis. Non-alcoholic steatohepatitis. Alcoholic liver disease. Hemochromatosis. Wilson's disease. Primary biliary cirrhosis. Hepatic tumours. Acute and chronic pancreatitis. Pancreatic tumours.		
					Internal Medicine – Pneumology	1300.4OB09S	Symptoms of respiratory disease. Pulmonary tuberculosis. COPD. Bronchial asthma. Pneumonia. Pathology of the pleura. Respiratory failure. Pulmonary hypertension. Chronic pulmonary heart disease. Pulmonary thromboembolism. Diffuse interstitial lung diseases. Respiratory sleep diseases. Smoking related lung diseases. Lung cancer.	English	4
					Internal Medicine – Nephrology	1300.4OB10S	Urinary tract infections. Glomerulonephritis. Nephrotic syndrome. Tubulointerstitial nephritis. Acute and chronic pyelonephritis. Vascular Nephropathies: Benign and Malignant Nephrosclerosis. Renovascular Hypertension. Renal lithiasis. Acute kidney failure. Hepatorenal Syndrome. Chronic kidney disease. Uremic syndrome. Haemodialysis. Hemofiltration.	English	4

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							Hemodiafiltration. Hemoperfusion. Peritoneal dialysis.		
					Cardiology	1300.4OB11S	Epidemiology of cardiovascular diseases. Cardiovascular risk factors. Hypertension. Stable and unstable angina. Acute myocardial infarction - diagnosis and treatment. IMA – early and late complications. Acute rheumatic fever. Aortic and mitral valve disease. Valve prostheses. Infectious endocarditis. Pericarditis. Myocarditis. Cardiomyopathies. Diagnosis and Management of Acute and Chronic Heart Failure. Deep vein thrombosis. Pulmonary embolism. Artery diseases: aortic dissection, acute & chronic limb ischemia. Cardiac arrhythmia. Cardiac resuscitation. Congenital heart disease in adult.	English	5
					Hygiene	1300.4OB12D	Air Hygiene - Pollution, contamination and action on health. Water Hygiene - Pathology of waterborne infections. Water drinking conditions. Hygiene of water supply. Soil hygiene. Hygiene of radiation. Hygiene of human habitat. Hygiene of food. Necessary, nutritional value, food hygiene. Hygiene of food units. Hygiene of child and adolescent. Hygiene of radiation.	English	2
					Basic medical skills practicum	1300.4OB13S	Organization of the surgical service and the operating room; surgical instruments. Sterilization of surgical materials and instruments. Basic surgical interventions: incision, suture, cauterization, drainage, puncture. Hemorrhage and hemostasis. Surgical hemostasis. Gastric aspiration. Gastric lavage.	English	2

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Study domain	Study cycle (1 <sup>st</sup> /2 <sup>nd</sup> )	Study programme	Year of study	Semester	Component title	Component code	Brief Description	Teaching Language	Credit units (ECTS)
					Annual specialized practice	1300.4OB14S	Surgical departments. Examination of the surgical patient in emergency conditions. Paraclinical examinations of the surgical patient, techniques of performance, interpretation. Acute surgical abdomen. Upper digestive bleeding - diagnosis, emergency treatment. Intestinal occlusions - diagnosis, emergency treatment. Postoperative monitoring of the surgical patient. Endoscopic explorations of the surgical patient - preparation, technique. Laparoscopic surgical interventions. Cardiopulmonary resuscitation.	English	2
					Emergencies in cardiology <sup>1</sup> -or- Intensive care unit ECG monitoring <sup>2</sup>  (optionals <sup>1</sup> : choose 1 of 2 courses)	1300.4OP15S -or- 1300.4OP16S	Acute Coronary Syndrome. Heart Failure. Cardiac Arrest. Cardiac Arrhythmias. ECG changes indicating ACS. Signs and symptoms associated with heart failure. Initial treatment for ACS and HF. Management of a patient with cardiac arrest. Identify and manage common cardiac arrhythmias.  -or-  Interpretation of the ECG. Lead 2. Arrhythmias. Tachycardia. Pericarditis. Pulmonary embolism. Respiratory failure. Hypothermia. Myocardial. Acute abdominal disease. Shock. Critically ill patient.	English	2

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Health	1 <sup>st</sup>	Medicine	5 <sup>th</sup>	Autumn	Paediatrics	1310.5OB01S	Introduction to Neonatology. Neonatal pathology. Paediatric protein-calorie malnutrition. Rachitis. Respiratory diseases in infants and children. Cardiovascular diseases in infants and children.	English	7
					First aid. Emergency Medicine	1310.5OB02S	Acute respiratory failure. Treatment of respiratory emergencies. Quincke's oedema, bronchial asthma, broncho-pulmonary infections. Acute cardiovascular insufficiency. Acute pulmonary oedema, pulmonary embolism, cardiac arrest. The Shock. Neurological emergencies: coma, stroke, loss of consciousness, convulsions, paralysis. Acute kidney failure. Acute liver failure. Metabolic emergencies. Disorders of acid-base equilibrium. Potassium disorders. Sodium disorders. Hypercalcemia. Hypocalcaemia. Hypoglycaemia. Hyperglycaemia. Haematological emergencies. Clotting disorders. Bleedings. Blood transfusion. Disorders of thermoregulation. Fever. Hyperthermia. Hypothermia. Infectious diseases emergencies. Endocarditis. Meningoencephalitis. Infections in immunosuppressed host. Nosocomial infections. Use of antibiotics at the emergency department. Acute intoxications. Algal syndrome.	English	3
					Diabetes and nutrition diseases	1310.5OB03S	Diabetes mellitus: definition, clinical diagnosis, laboratory diagnosis, classification. Type 1 diabetes mellitus and type 2 diabetes mellitus (etiopathogenesis, pathophysiology, symptoms, natural history). Management of diabetes mellitus. Criteria for good metabolic control. Diet and exercise. Treatment of type 1 diabetes mellitus. Treatment of type 2 diabetes mellitus. Special situations: pregnancy and diabetes, surgical	English	4

<sup>1</sup>Optional disciplines. The optional disciplines are chosen by the faculty at the beginning of each academic year depending on availability.

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							interventions and diabetes. Acute complications of diabetes mellitus: hypoglycemia in diabetic patients, ketosis and diabetic ketoacidosis; hyperglycemic hyperosmolar coma, therapeutic approach to other emergencies in the diabetic patient. Chronic complications of diabetes mellitus: mechanisms, diagnostic criteria for: diabetic microangiopathy, diabetic macroangiopathy, diabetic neuropathy, management of chronic complications of diabetes mellitus. Obesity: assessment of weight status, classification of obesity, complications of obesity, treatment of obesity. Dyslipidemias: definition and classification, clinical and laboratory diagnosis, treatment. Atherogenic dyslipidemia. Hyperuricemias. Metabolic syndrome.		
					Neurology	1310.5OB04S	Short history of neurology. The peripheral nervous system – anatomy and physiology. Nerve injuries of the upper extremity and hand. Nerve injuries of the lower extremity. Treatment of peripheral nerve paralysis. Migraine. Muscular diseases: progressive muscular dystrophies, Steinert myotonic dystrophy, myotonia congenita. Myasthenia gravis, polymyositis, hypokalaemic periodic paralysis. Medullary syndromes. Cerebellar syndromes. Diencephalic syndromes. Extrapyrarnidal syndromes. Parkinson disease. Cortical syndromes. Hepatolenticular degeneration. Coma. Epilepsy. Cerebral atherosclerosis. Cerebral thrombophlebitis. Neuroinfections.	English	4

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					Nephrology	1310.5OB05S	Main renal functions: tubular and endocrine. Glomerulonephritis. Nephrotic syndrome. Urinary tract infection (UTI). Acute renal failure (pre, post and renal). Chronic renal failure (CRF). Essential hypertension: stages of treatment. Features of secondary hypertension. Urinary tract infection: cystitis, acute pyelonephritis, chronic pyelonephritis, septic pyelonephritis. Acute drug-induced interstitial nephropathy. CRF: conservative treatment. AKI: etiology, staging, treatment. Hyperkalemia: stages, treatment. Metabolic acidosis: diagnosis, treatment. Obstructive nephropathy: renal colic. Urinary infections. Glomerulonephritis. Nephrotic syndrome. Acute and chronic renal failure.	English	3
					Endocrinology	1310.5OB06S	Classification of hormones and their mechanism of action. What is the role of the hormones in the body? The hypothalamus: endocrine function. Hypothalamic syndromes: diabetes insipidus, the syndrome of inappropriate secretion of antidiuretic hormone, psychogenic amenorrhoea, neurogenic early puberty, hypothalamic hypogonadism. Pituitary gland. Pituitary gland disorders: hypopituitarism, secretory and non-secretory pituitary tumours, acromegaly, gigantism, hyperprolactinemia, TSH – secreting pituitary adenoma, ACTH secreting pituitary adenoma, gonadotropic adenoma, mixed adenoma. Iodine and thyroid function. Hypothyroidism. Thyrotoxicosis. Thyroiditis. Thyroid tumours. Thyroid hormone resistance syndrome. Parathyroid glands. Hypoparathyroidism, hyperparathyroidism,	English	3

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							spasmophilia. Bone metabolism. Osteoporosis. Adrenal glands. Adrenocortical insufficiency. Adrenocortical syndromes. Cushing's syndrome. Hyperaldosteronism. Pheochromocytoma. Gonads. Male hypogonadisms. Androgen insensitivity syndrome. Gynecomastia. Male sexual dysfunctions. Female hypogonadism. Polycystic ovary syndrome. Hirsutism. Puberty. Precocious puberty. Pubertal retardation. Menopause. Infertility. Multiple endocrine neoplasia. Endocrine changes in obesity. Eating disorders.		
					Plastic surgery and reconstructive microsurgery	1310.5OB07S	Definition of the specialty; field of plastic surgery, reconstructive microsurgery. History of the specialty correlated with the development of the specialty. Procedures-methods of covering specific soft and/or bone defects including transplants. Burns Thermal and electrical burns (classification by depth and surface, local lesion and conservative and surgical treatment, post-combustion shock, hydroelectrolytic rebalancing, complications). Reconstructive microsurgery of the hand (anatomy, main hand traumas, hand malformations). Notions of facial plastic surgery (anatomical regions, main facial traumas, reconstructive surgery of the lips, eyelids, nose, ears, facial paralysis, facial malformations). Elements of aesthetic surgery (face: rhinoplasty, blepharoplasty, facelift; breast: augmentation, reduction, lift; silhouette: liposuction, abdominoplasty).	English	2

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Study domain	Study cycle (1 <sup>st</sup> /2 <sup>nd</sup> )	Study programme	Year of study	Semester	Component title	Component code	Brief Description	Teaching Language	Credit units (ECTS)
					Practical abilities	1310.5OB12S	Practical skills regarding the prevention of nosocomial infections. Infection control. Hand washing. Precautions for the prevention of infections transmitted by air, direct contact. Use of isolation equipment. Techniques for use. Learning procedures. Practical skills regarding patient hygiene and comfort. Changing bed linen, underwear. Toileting the bedridden patient. Changing the position of the bedridden patient. Mobilizing the patient. Capturing eliminations. Feeding the patient, active and passive. Measurement and monitoring of vital functions and other parameters. Measurement of: temperature, pulse, blood pressure and respiration, including body weight. Sampling, harvesting for laboratory examinations. Urine, fecal matter, pharyngeal exudate, expectorated sputum, urethral in men, purulent from lesions and cervico-vaginal harvesting. Drug administration. General aspects: oral, parenteral, intramuscular, subcutaneous, intradermal, intravenous routes. Administration of medications. General aspects: conjunctival route, nasal instillation, on the skin, rectal route, nasogastric tube and vaginal route.	English	2
					Sexology <sup>1</sup> -or- Algorithms for diagnostic and treatment of	1310.5OP14S -or- 1300.5OP15S	Definitions; the role of the sexologist; the role of the sexologist; history and important moments in the development of sexology as a discipline. The importance of sex education: in schools; in the family doctor's office. Sexually transmitted infections and their prevention: AIDS, herpes, HPV, hepatitis B, syphilis, gonorrhoea, trichomonas	English	2

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					peripheral vascular diseases <sup>1</sup>  (optionals <sup>1</sup> : choose 1 of 3 courses)		Emergency contraception – morning-after pill, IUD. Genetic, chromatin, gonadophoric, gonadal, gametic, hypothalamic, hormonal, genital, somatic, psychic, civil sex. Sexuality and sexual orientation. Sexual dysfunctions in men and women: pleasure dysfunctions (frigidity, anorgasmia, dyspareunia); arousal dysfunctions (erectile dysfunction, ejaculation disorders, vaginismus); desire dysfunctions.  -or-  General diagnostic algorithm in medical practice. General diagnostic algorithm in haematology. Peripheral arterial occlusive disease. Arterial stenosis or occlusion impairs perfusion in the territory of the distal portion of the aorta and the iliac and leg arteries. Symptomatic PAOD.		
				Spring	Paediatrics	1310.5OB01S	Digestive system diseases. Urinary system diseases. Pathology of central and peripheral nervous system. Rheumatic diseases. Immunological diseases. Pathology of nutrition. Haematological and oncological diseases. Emergencies in Paediatrics. Pathology of adolescent. Childhood contagious diseases.	English	7
					Emergency Medicine	1310.5OB02S	Acute respiratory failure. Treatment of respiratory emergencies. Quincke’s oedema, bronchial asthma, broncho-pulmonary infections. Acute cardiovascular insufficiency. Acute pulmonary oedema, pulmonary embolism, cardiac arrest. The Shock. Neurological emergencies: coma, stroke, loss of consciousness, convulsions, paralysis. Acute kidney failure. Acute	English	4

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							liver failure. Metabolic emergencies. Disorders of acid-base equilibrium. Potassium disorders. Sodium disorders. Hypercalcemia. Hypocalcaemia. Hypoglycaemia. Hyperglycaemia. Haematological emergencies. Clotting disorders. Bleedings. Blood transfusion. Disorders of thermoregulation. Fever. Hyperthermia. Hypothermia. Infectious diseases emergencies. Endocarditis. Meningoencephalitis. Infections in immunosuppressed host. Nosocomial infections. Use of antibiotics at the emergency department. Acute intoxications. Algal syndrome.		
					Otorhinolaryngology	1310.5OB08S	Anatomy and development of pharynx. Congenital anomalies of the pharynx. Pharyngeal tumours. Acute and chronic inflammation of the pharynx. Anatomy and development of larynx. Congenital anomalies of the larynx. Laryngeal foreign bodies. Laryngeal trauma. Acute and chronic laryngitis. Laryngeal tumours. Anatomy and development of trachea and bronchi. Tracheobronchial inflammations. Tracheobronchial foreign bodies. Tracheobronchial tumours. Anatomy of the oesophagus. Esophagitis. Oesophageal tumours. Oesophageal foreign bodies. Ear anatomy, physiology and embryology. External and middle ear conditions. Ear tumours. Acoustic trauma. Nasal and paranasal sinus anomalies. Acute and chronic rhinitis. Nasal and sinus tumours. Nasal and maxillary sinus trauma. Epistaxis. Acute and chronic sinusitis.	English	4
					Ophthalmology	1310.5OB09S	Refraction and the eye. Eyelid pathology. Orbit pathology. Conjunctiva pathology. Lacrimal	English	4

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							apparatus pathology. Ocular motility disorders. Corneal pathology. Scleral pathology. Pathology of the uvea. Pathology of the lens. Retinal pathology. Glaucoma. Pathology of the optic nerve.		
					Paediatric Surgery and Orthopaedics	1310.5OB10S	Particularities of paediatric surgery and paediatric orthopaedics. Birth trauma. Congenital malformations. Abdominal wall defects. Anorectal malformations. Congenital malformations of the gastrointestinal tract. Chest and abdominal trauma. Congenital disorders of musculoskeletal system. Diseases of the locomotor system. Paediatric tumour pathology.	English	4
					Occupational medicine and professional diseases	1310.5OB11S	Occupational medicine: definition as a specialty, relationships with other medical and non-medical specialties, content, objectives and methodology for their achievement, organization and functioning on a national and international level. Ergonomics issues: definition of ergonomics, ergonomic organization of the workplace (principles); adaptive physiological reactions in the work process (cardiovascular, respiratory, renal, digestive, endocrine, central nervous system, analyzers). Pneumoconiosis: definition, morpho-clinical classification. Determination of occupational toxicants at a workplace. Occupational exposure to ionizing and non-ionizing radiation: exposed professions and effects on health.	English	3
					Practical abilities	1310.5OB12S	Participation in thoracentesis. Participation in performing peritoneal puncture (abdominal paracentesis). Participation in pericardial puncture, spinal puncture, joint puncture, bone (medullary)	English	2

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							puncture, bladder puncture, biopsy puncture (liver, kidney, breast node). Participation of the medical assistant in imaging examinations. Participation in radiological examinations, general aspects. Patient preparation and participation in radiological examination of the osteoarticular system, thoracic organs, digestive tract (barium swallow, colon examination), gallbladder and bile ducts, renal apparatus, nervous system, radioactive isotopes (scintigraphy), echographic ultrasounds: echography, echoendoscopy. Practical skills regarding patients with respiratory diseases. Practical skills regarding patients with cardiovascular diseases. Practical skills regarding patients with digestive disorders. Practical skills regarding patients with nephrological diseases.		
					Annual specialized practice for acquiring medical skills and competences	1310.5OB13S	Paraclinical investigations in cytolytic syndrome, cholestatic syndrome. Viral markers. Tumour markers in gastrointestinal cancers. Helicobacter pylori tests. Abdominal ultrasound. Paracentesis. Percutaneous liver biopsy technique. Endoscopic retrograde cholangiopancreatography. Sclerosis and ligation of oesophageal varices. Endoscopic polypectomy. Evaluation of the renal patient. Clinical urine tests. Kidney function tests. Intravenous urography: technique and interpretation. Nutrition and kidney diseases. Steroid treatment for kidney disease. Dialysis centre. Paediatric physical examination. Pulmonary function tests. Thoracentesis. Paracentesis.	English	2

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Health	1 <sup>st</sup>	Medicine	6 <sup>th</sup>	Autumn	Obstetrics and Gynaecology	1303.6OB01S	Sexual cells, conception, segmentation and migration, implantation. Foetal development. Foetal annexes. Pregnancy diagnosis. Physiologic maternal changes in pregnancy, labour and birth. Physiology of birth. Professional assistance during birth. Pathology related to pregnancy. Preeclampsia and eclampsia. Gestational hypertension. Foetal-maternal incompatibility. Multifetal pregnancy. Abortion. Ectopic pregnancy. Premature birth. Hyper mature pregnancy. Foetal distress. Intrauterine foetal death. Dynamic and mechanical dystocia. Uterine rupture. Prenatal counselling. Drug use in pregnancy. Menstrual disorders. Endometriosis. Conjugal sterility. Menopause. Contraception. Family Planning. Genital infections. Benign and malignant tumours of the uterus, ovary and breast. Neonatal respiratory distress. Birth asphyxia. Hyaline membrane disease. Transient neonatal respiratory distress. Aspiration related acute respiratory distress. Hiatal hernia. Neonatal infections. Maternal and foetal infections. Neonatal hyperbilirubinemia and Rhesus disease. Hypoxic ischemic brain damage: intracranial haemorrhage in neonates, neonatal seizures, haemorrhagic disease of newborn. Ethical issues in maternal-foetal medicine.	English	7
					Neonatology	1303.6OB02S	The newborn. High-risk newborn. Foetal trauma. Neonatal resuscitation. Perinatal asphyxia. Neonatal cardiac distress. Neurological distress. Neonatal	English	5

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							infections. Neonatal jaundice. Gastrointestinal pathology in neonates. Renal pathology in neonates. Newborn transport guide. Post resuscitation care of newborn.		
					Psychiatry	1303.6OB03S	Introduction to psychiatry. A brief history of psychiatry. Etiopathogenesis of psychiatric disorders. Social Psychiatry. Elements of the psychiatric assessment. Psychopathological aspects of behaviour. General guidelines for psychiatric examination. Assessment of motivational emotional states. Paraclinical exploration in psychiatry. Classification of mental disorders according to DSM 4 and ICD 10. Diagnosis of psychiatric disorders. Organic mental disorders. Dementia. Organic amnesic syndrome. Delirium. Organic hallucinosis. Organic affective disorder. Cognitive organic disorder. Organic personality disorder. Post traumatic epilepsy. Mental disorders related to use of psychoactive substances. Schizophrenia. Affective disorders. The Manic Episode. The depressive episode. Bipolar affective disorder. Recurrent depression. Neurotic, stress-related and somatoform disorders. Phobias. Obsessive-compulsive disorder. Posttraumatic stress disorder. Adjustment disorders. Dissociative disorders. Personality disorders. Habit and impulse disorders (pathological play, pyromania, kleptomania, trichotillomania). Sexual Performance anxiety. Eating disorders. Non-organic sleep disorders. Developmental delay. Classification of psychiatric disorders in childhood and adolescence. Emotional	English	5

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							disorders. Infantile autism, ADHD, behavioural disorders, school refusal, child physical abuse, child emotional abuse, child sexual abuse. Psychopharmacology. Anxiolytic medication. Hypnotic medication. Neuroleptic medication. Antidepressant medication. Introduction to psychotherapy. Psychiatric emergencies. Psychiatric medical care. Psychiatric Ethics: Paternalism, Autonomy, Competence, Informed Consent. Hospital admissions for mental illness.		
					Rheumatology	1303.6OB04S	Fundamental Immunology. Structure and functions of joints, connective tissue and bone. Rheumatoid arthritis. Juvenile idiopathic arthritis. Sjögren's syndrome. Seronegative spondyloarthropathies. Ankylosing spondylitis. Reactive arthritis. Psoriatic arthritis. Inflammatory bowel disease-related arthritis. Systemic lupus erythematosus. Antiphospholipid syndrome. Systemic Vasculitis. Behçet Disease. Polymyositis / dermatomyositis. Mixed connective tissue disease. Scleroderma. Gout. Pseudogout. Osteoporosis. Paget disease of the bone. Femoral head avascular necrosis. The arthritic disease. Acute rheumatism. Fibromyalgia. Sciatica. Rheumatic manifestations of systemic diseases: HIV infection, haematological diseases, endocrine diseases, metabolic diseases, gastrointestinal diseases. Neuropathic arthropathy.	English	5
					Dermato-venerology	1303.6OB05S	Anatomy, histology and physiology of human skin. Elementary lesions in dermatological semiology. General principles of dermatological therapy. Skin and mucosal fungal infections. Pyoderma.	English	4

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							Erythrasma. Epidermal parasitic skin disease: scabies and pediculosis. Skin and mucosal viral infections. Atopic dermatitis: urticaria and eczema. Collagenosis: psoriasis, epidermolysis bullosa, lichen planus. Benign and malignant skin and mucosal tumours. Physical agents related premalignant dermatoses. Sexually transmitted diseases: syphilis, gonorrhoea, chlamydia trichomoniasis, HIV.		
					Forensic Medicine	1303.6OB06S	Introduction to Forensic Medicine. Forensic thanatology. Mechanical Trauma. Death due to physical agents. Forensic Toxicology. Infanticide. Forensic medical examinations in living individuals. Forensic sexology. Medical deontology.	English	4
				Spring	Epidemiology	1303.6OB07D	Introduction to Epidemiology. The epidemiological process. Prevention, control, epidemiological surveillance of infectious diseases. Statistical methods in epidemiology. Epidemiological surveillance and prevention in respiratory infectious diseases. Epidemiological surveillance and prevention in gastrointestinal infectious diseases. Epidemiological surveillance and prevention in nosocomial infections. Epidemiological surveillance and prevention in sexually transmitted diseases. Epidemiological surveillance and prevention in AIDS.	English	3
					Public Health and Health Management	1303.6OB08D	Introduction to Public Health. Education for health and prevention. Social dimensions of aging and health. Principles of epidemiology. Health systems. Quality of health services. Primary health care. Hospital care. Current priority health issues in Romania. Health Insurance System in Romania. Specific health legislation. Healthcare management.	English	3

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					Family Medicine	1303.6OB09S	Definition of family medicine. Family physicians, health education and prevention. Role and responsibilities of family physicians. Integrative medicine primary care. Patient examination, diagnosis and treatment in family medicine. Management of respiratory diseases in family medicine. Management of cardiovascular diseases in family medicine. Management of gastrointestinal diseases in family medicine. Jaundice: ethology, pathophysiology, diagnosis and treatment. Anaemia: ethology, pathophysiology, diagnosis and treatment. Management of renal diseases in family medicine. Metabolic syndrome treatment & management. Acute febrile syndrome. Cancer screening. Allergy diagnosis in general practice. Migraine diagnosis and treatment. Pathology of aging. Mental health.	English	6
					Infectious Diseases	1303.6OB10S	Introduction to Infectious Diseases. Major infectious syndromes. Passive and active prophylaxis of infectious diseases. Antimicrobial therapy. Childhood diseases. Vaccine-preventable diseases: diphtheria, pertussis, endemic parotitis, poliomyelitis, tetanus. Severe infections. Sepsis. Acute bacterial endocarditis. Endotoxic shock. Cerebral-Meningeal Infections. Meningitis. Encephalitis. Stomatitis. Viral respiratory infections. The Flu. Acute bacterial pneumonia. Acute infectious diarrhoea. Clostridium difficile infection. Cholera. Bacillary dysentery. Typhoid fever and other salmonellosis. Acute viral hepatitis. Infections in immunocompromised hosts. HIV / AIDS infection.	English	5

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							Nosocomial infections. Anthroozoonosis. Leptospirosis, Lyme disease, Q fever, cat-scratch disease, Anthrax, Rabia.		
					Recovery, physical medicine and balneology	1303.6OB11S	Fundamental immunology concepts. Structure and functions of connective tissue joints and bone. Rheumatoid arthritis. Juvenile idiopathic arthritis; Sjögren's syndrome. Seronegative spondyloarthropathies. Systemic vasculitis and Behçet's disease. Systemic lupus erythematosus; Antiphospholipid antibody syndrome. Scleroderma. Polymyositis; Dermatomyositis; Mixed connective tissue disease. Microcrystal-induced arthritis. Osteoarthritis. Osteoporosis; Paget's disease of bone. Acute articular rheumatism; Fibromyalgia; Non-articular rheumatism. Rheumatic manifestations in other diseases.	English	4
					Palliative Care	1303.6OB12S	Definition. Concept. Principles of palliative care. Communication of diagnosis. Pain. Pain assessment. Principles of prescribing opioid medication. Palliative care required for patients with neoplastic disease. Pediatric palliative care. Peculiarities of palliative care in children and the elderly. Patient nutrition. Reassessment of nutritional status. Anorexia. Cachexia. Means of nutritional intervention. Symptom control: nausea, vomiting, hematuria, pathological bone fractures, muscle spasms. Symptom control: hemoptysis, pericarditis, pleurisy. Metabolic disorders. Dehydration. Symptom control: Massive hemorrhage. Hypercalcemia. Ethical issues. Confidentiality.	English	3

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							Informed consent. CPR. Discontinuation of drug treatments.		
					Oral and maxillo-facial surgery	1303.6OB13S	Introduction to Oral & Maxillofacial Surgery. Brief history. Craniomaxillofacial infections. Craniomaxillofacial trauma. Tumours of the face and oral cavity. Soft tissue malignant tumours. Multimodal therapy. Salivary gland pathology. Orofacial pain. TMJ Pathology. Dent-maxillary abnormalities. Congenital malformations of the face and jaws.	English	2
					Work on graduation thesis	1303.6OB14S	Preparing the bachelor's thesis	English	2
					Child Psychology and Neuropsychiatry <sup>1</sup> -or- Basic notions in organ transplantation <sup>1</sup>  (optionals <sup>1</sup> : choose 1 of 2 courses)	1303.6OP15D -or- 1303.6OP16D	Child assessment technique. Mental retardation. Emotional disorders with onset in childhood and adolescence. Autism spectrum disorders. Eating disorders and elimination disorders. Attention deficit hyperactivity disorder. Psychoses -or- Introduction. History of tissue and organ transplantation. Objectives of Transplantology. Legal framework for the collection and performance of transplantation Current legislation. Ethical and deontological issues. Evaluation, collection and preservation of grafts. History. Principles and methods of collection. Transplant immunology. Immunosuppression. Pharmacological agents. Immunosuppression protocols. Sources of organs and tissues for transplantation. Living donors. Brain-dead donors. Sources of organs and tissues for transplantation. Tissue and organ banks. Xenografts.	English	2

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