Appendix No.2 to Resolution No. 2481
of Senate of Wroclaw Medical University
of 15 February 2023

WROCLAW
MEDICAL UNIVERSITY

Study Programme

Faculty: Faculty of Medicine
Major: Medicine (English programme)
Level of studies: Uniform Master Studies
Form of studies: full-time
Education cycle: 2023/2024 – 2028/2029

Basic information

1.	**Faculty**	**Faculty of Medicine**
2.	**Major**	**Medicine (English Programme)**
3.	level of studies	Uniform Master Studies
4.	education profile	General Academic
5.	form of studies	Full-time
6.	number of semesters	12
7.	number of hours	**5 704**
8.	field	Medical Sciences
9.	professional title	Physician

Number of ECTS points

10.	required to complete studies	**360**
11.	for courses in direct contact with university teachers or other academics	**360**
12.	required to complete courses in the field of humanities or social sciences	**7,0**
13.	required to complete the course of foreign language	**7,0**
14.	required to complete optional courses	**12,0**
15.	required to complete vocational internship	**20,0**
16.	percentage of the numer of ECTS points for each discipline in the total number of points – if studies are assigned to more than one discipline	**not applicable**
17.	practical profile includes courses developing practical skills for more than 50% of the total of ECTS points	☐ yes X not applicable
18.	general academic profile includes courses related to University's scientific activity in the discipline or disciplines, to which the field of study is assigned, to extent of more than 50% of the number of ECTS points	☐ yes X not applicable

Number of hours

19.	Physical Education	**60**
20.	Vocational Internship	**600**

STUDY PROGRAMME for 2023/2024 – 2028/2029 education cycle
Academic year 2023/2024
1st year

		semester 1, 2						
group code	Course	lecture	seminars	other forms	vocational internship	TOTAL HOURS	ECTS POINTS	verification method
A	Anatomy	30	-	130	-	160	13,0	credit/g exam
B	Biochemistry with elements of chemistry (1)	29	15	56	-	100	8,0	credit/g
B	Biophysics	22	-	33	-	55	4,5	credit/g exam
B	Molecular Biology	25	25	15	-	65	5,5	credit/g exam
A	Human Embryology	-	30	-	-	30	1,5	credit/g
D	Medical Ethics	-	30	-	-	30	2,5	credit/g
A	Histology with cytophysiology	20	-	100	-	120	10,5	credit/g exam
D	History of Medicine	5	10	-	-	15	1,0	credit/g
D	Polish (1) English (1)	-	-	60	-	60	3,0	credit/g
F	Medical First Aid with Elements of Nursing	-	10	10	-	20	1,0	credit/g
B	Basic Information Technology and Biostatistics	10	-	30	-	40	2,5	credit/g
	Physical Education	-	-	60	-	60	0,0	credit
	Safety and fire training	-	-	4	-	4	0,0	credit
	Optional Courses	-	60	-	-	60	3,0	credit/g
	Vocational Internship	-	-	-	120	120	4,0	credit
	TOTAL	141	180	498	120	939	60,0	

STUDY PROGRAMME for 2023/2024 – 2028/2029 education cycle
Academic year 2024/2025
2nd year

		semester 3, 4						
group code	Course	lecture	seminars	other forms	vocational internship	TOTAL HOURS	ECTS POINTS	verification method
A	Clinical Anatomy	-	-	30	-	30	2,0	credit/g
B	Biochemistry with elements of chemistry (2)	10	10	40	-	60	6,0	credit/g exam
G	Epidemiology with hygienic elements	-	-	30	-	30	2,5	credit/g exam
B	Physiology	48	-	102	-	150	12,0	credit/g exam
C	Clinical Immunology	20	6	44	-	70	6,0	credit/g exam
D	Polish (2) English (2)	-	-	60	-	60	4,0	credit/g exam
C	Microbiology (1)	20	-	30	-	50	4,0	credit/g
C	Pathophysiology	20	-	60	-	80	7,0	credit/g exam
C	Pathomorphology (1)	30	-	55	-	85	6,0	credit/g
D	Medical Psychology with Elements of Interpersonal Communication	-	32	8	-	40	2,5	credit/g
D	Sociology in Medicine	-	20	-	-	20	1,0	credit/g
	Optional Courses	-	60	-	-	60	3,0	credit/g
	Vocational Internship	-	-	-	120	120	4,0	credit
	TOTAL	148	128	459	120	855	60,0	

STUDY PROGRAMME for 2023/2024 – 2028/2029 education cycle
Academic year 2025/2026
3rd year

		semester 5, 6						
group code	Course	lecture	seminars	other forms	vocational internship	TOTAL HOURS	ECTS POINTS	verification method
E	Laboratory Diagnostics	10	-	30	-	40	2,0	credit/g
E	Clinical Dietetics	2	4	4	-	10	1,0	credit/g
C	Pharmacology and Toxicology	60	-	90	-	150	14,5	credit/g exam
C	Microbiology (2)	20	-	30	-	50	4,0	credit/g exam
C	Pathomorphology (2)	30	-	55	-	85	6,5	credit/g exam
E	Propaedeutics of Surgery	-	10	20	-	30	2,0	credit/g
E	Propaedeutics of Internal Medicine	24	10	60	-	90	9,5	credit/g exam
E	Propaedeutics of Oncology	20	10	-	-	30	2,5	credit/g
E	Propaedeutics of Paediatrics	22	12	60	-	90	9,0	credit/g exam
E	Propaedeutics of Radiology	4	16	-	-	20	1,0	credit/g
E	Propaedeutics of Dentistry	-	5	10		15	1,0	credit/g
	Optional Courses	-	60	-	-	60	3,0	credit/g
	Vocational Internship	-	-	-	120	120	4,0	credit
TOTAL		192	119	359	120	790	60,0	

STUDY PROGRAMME for 2023/2024 – 2028/2029 education cycle
Academic year 2026/2027
4th year

		semester 7, 8						
group code	Course	lecture	seminars	other forms	vocational internship	TOTAL HOURS	ECTS POINTS	verification method
F	Surgery (1)	40	10	45	-	95	5,0	credit/g
E	Internal Medicine (1)	30	15	50	-	95	4,5	credit/g
E	Infectious Diseases	25	15	60	-	100	5,5	credit/g exam
E	Dermatology and Venerology	6	12	42	-	60	4,0	credit/g exam
E	Clinical Pharmacology	5	-	15	-	20	1,0	credit/g
C	Clinical Genetics	20	-	50	-	70	5,0	credit/g exam
F	Gynecology and Obstetrics (1)	35	30	-	-	65	3,0	credit/g
F	Nuclear Medicine	-	10	5	-	15	0,5	credit/g
E	Paliative Medicine	-	8	17	-	25	1,0	credit/g
G	Forensic Medicine	5	-	30	-	35	2,0	credit/g exam
F	Ophthalmology	20	10	30		60	4,0	credit/g exam
F	Orthopedics and Traumatology	15	10	30	-	55	4,0	credit/g exam
F	Otolaryngology	15	10	35	-	60	3,5	credit/g exam
E	Paediatrics (1)	30	10	50	-	90	4,5	credit/g
F	Clinical Radiology	16	-	44	-	60	4,0	credit/g exam
E	Rehabilitation	10	5	15	-	30	1,5	credit/g
	Optional Courses	-	60	-	-	60	3,0	credit/g
	Vocational Internship	-	-	-	120	120	4,0	credit
	TOTAL	272	205	518	120	1115	60,0	

STUDY PROGRAMME for 2023/2024 – 2028/2029 education cycle
Academic year 2027/2028
5th year

		semester 9, 10						
group code	Course	lecture	seminars	other forms	vocational internship	TOTAL HOURS	ECTS POINTS	verification method
F	Anesthesiology and Intensive Care	20	10	35	-	65	4,5	credit/g exam
F	Surgery (2)	40	15	40	-	95	5,0	credit/g
F	Paediatric Surgery	-	5	30	-	35	1,5	credit/g
E	Internal Medicine (2)	30	10	50	-	90	5,0	credit/g
E	Geriatrics	10	5	25	-	40	2,0	credit/g
F	Gynecology and Obstetrics (2)	30	30	20	-	80	4,5	credit/g
F	Emergency Medicine (1)	20	10	30	-	60	3,0	credit/g
E	Family Medicine (1)	10	15	40	-	65	3,0	credit/g
E	Neonatology	5	10	15	-	30	1,5	credit/g
F	Neurosurgery	15	5	15	-	35	2,0	credit/g
E	Neurology	25	10	55	-	90	5,5	credit/g exam
E	Oncology	15	15	30	-	60	4,0	credit/g exam
E	Paediatrics (2)	16	12	32	-	60	3,0	credit/g
G	Medical Law	10	20		-	30	2,5	credit/g exam
E	Psychiatry (1)	22	18	20	-	60	3,0	credit/g
F	Clinical Transplantation	5	4	16	-	25	1,5	credit/g
F	Urology	14	5	16	-	35	2,5	credit/g exam
G	Public Health	-	30	-		30	2,0	credit/g exam
	Vocational Internship	-	-	-	120	120	4,0	credit
	TOTAL	287	229	469	120	1105	60,0	

STUDY PROGRAMME for 2023/2024 – 2028/2029 education cycle
Academic year 2028/2029
6th year

		semester 11, 12						
group code	Course	lecture	seminars	other forms	vocational internship	TOTAL HOURS	ECTS POINTS	verification method
F	Surgery (3)	-	30	90	-	120	8,0	credit/g exam
E	Internal Medicine (3)	-	35	205	-	240	16,0	credit/g exam
F	Gynecology and Obstetrics (3)	-	-	60	-	60	4,0	credit/g exam
F	Emergency Medicine (2)	-	10	50	-	60	4,0	credit/g exam
E	Family Medicine (2)	-	12	48	-	60	4,0	credit/g exam
E	Paediatrics (3)	-	25	95	-	120	8,0	credit/g exam
E	Psychiatry (2)	-	18	42		60	4,0	credit/g exam
E or F	Practical Clinical Teaching – chosen specialty	-	-	180	-	180	12,0	credit/g
TOTAL			130	770	-	900	60,0	

Explanatory note:

credit	credit
credit/g	credit with grade
exam	exam

Learning outcomes

learning outcomes number[1]	**Learning outcomes** Graduate after graduation:	PRK[2]
KNOWLEDGE (knows and understands)		
A.W1.	anatomical, histological and embryological vocabulary in Polish and English	P7S_WG
A.W2.	the structure of the human body from a topographical (upper and lower limbs, thorax, abdomen, pelvis, back, neck, head) and functional (osteoarticular system, muscular system, cardiovascular system, respiratory system, digestive system, urinary system, sexual systems, nervous system and sensory organs, integument) point of view	P7S_WG
A.W3.	the topographical relationships between the various organs	P7S_WG
A.W4.	basic cellular structures and their functional specialisations	P7S_WG
A.W5.	the micro-architecture of tissues, extracellular matrix and organs	P7S_WG
A.W6.	the stages of development of the human embryo, the structure and function of the foetal membranes and placenta, the stages of development of the various organs, and the effect of harmful factors on the development of the embryo and foetus (teratogenic)	P7S_WG
B.W1.	the water-mineral balance of biological systems	P7S_WG
B.W2.	the acid-base balance and the mechanism of action of buffers and their importance in body homeostasis	P7S_WG
B.W3.	the terms: solubility, osmotic pressure, isotonia, colloidal solutions and Gibbs-Donnan effect	P7S_WG
B.W4.	the basic reactions of inorganic and organic compounds in aqueous solutions	P7S_WG
B.W5.	the physical laws describing fluid flow and factors affecting vascular resistance to blood flow	P7S_WG
B.W6.	the natural and artificial sources of ionising radiation and their interaction with matter	P7S_WG
B.W7.	the physicochemical and molecular basis of the functioning of the sensory organs	P7S_WG
B.W8.	the physical basis of non-invasive imaging methods	P7S_WG
B.W9.	the physical basis of selected therapeutic techniques, including ultrasound and irradiation	P7S_WG
B.W10.	the structure of simple organic compounds that make up the macromolecules present in cells, the extracellular matrix and body fluids	P7S_WG
B.W11.	the structure of lipids and polysaccharides and their functions in cellular and extracellular structures	P7S_WG
B.W12.	the I-, II-, III- and IV-order structures of proteins and post-translational and functional modifications of proteins and their significance	P7S_WG
B.W13.	the function of nucleotides in the cell, the I- and II-order structures of DNA and RNA, and the structure of chromatin	P7S_WG
B.W14.	the functions of the human genome, transcriptome and proteome and the principal methods used to study them, the processes of DNA replication, repair and recombination, transcription and translation and the degradation of DNA, RNA and proteins, and the concepts of regulation of gene expression	P7S_WG
B.W15.	the basic catabolic and anabolic pathways, how they are regulated, and how they are influenced by genetic and environmental factors	P7S_WG
B.W16.	the metabolic profiles of key organs and systems	P7S_WG
B.W17.	the ways in which cells communicate with each other and with the extracellular matrix, and the pathways for transmitting signals within the cell, and examples of disruption of these processes leading to cancer and other diseases	P7S_WG

Explanation:
[1] Learning outcomes number: W – Knowledge, U – Skills, K – Social Competences
[2] Symbol of Polish Qualification System

B.W18.	the processes: cell cycle, proliferation, differentiation and ageing of cells, apoptosis and necrosis and their significance for the functioning of an organism	P7S_WG
B.W19.	to a basic extent the issue of stem cells and their application in medicine	P7S_WG
B.W20.	the basics of stimulation and conduction in the nervous system and higher nervous functions, as well as striated and smooth muscle physiology and blood functions	P7S_WG
B.W21.	the function and regulation mechanisms of all organs and systems of the human body, including the cardiovascular system, the respiratory system, the digestive system, the urinary system and the skin, as well as the relationships existing between them	P7S_WG
B.W22.	the course and regulation of reproductive functions in men and women	P7S_WG
B.W23.	the body's ageing mechanism	P7S_WG
B.W24.	the basic quantitative parameters describing the performance of various systems and organs, including the ranges of norms and demographic factors affecting the values of these parameters	P7S_WG
B.W25.	the relationship between factors disturbing the equilibrium state of biological processes and physiological and pathophysiological changes	P7S_WG
B.W26.	the basic IT and biostatistical tools used in medicine, including medical databases, spreadsheets and basic computer graphics	P7S_WG
B.W27.	the basic methods of statistical analysis used in population-based and diagnostic studies	P7S_WG
B.W28.	the potential of modern telemedicine as a tool to support the work of a doctor	P7S_WG
B.W29.	the principles of scientific, observational and experimental research and in vitro studies for the development of medicine	P7S_WG
C.W1.	the basic concepts of genetics	P7S_WG
C.W2.	the phenomena of gene linkage and interactions	P7S_WG
C.W3.	the proper human karyotype and the different types of sex determination	P7S_WG
C.W4.	the chromosome structure and the molecular basis of mutagenesis	P7S_WG
C.W5.	the principles of inheritance of different numbers of traits, inheritance of quantitative traits, independent inheritance of traits and inheritance of non-nuclear genetic information	P7S_WG
C.W6.	the genetic determinants of human blood groups and serological conflict in the Rh system	P7S_WG
C.W7.	the aberrations of autosomes and heterosomes that cause diseases, including oncogenesis and cancer	P7S_WG
C.W8.	the factors influencing the primary and secondary genetic balance of the population	P7S_WG
C.W9.	the basis for diagnosis of gene and chromosome mutations responsible for inherited and acquired diseases, including cancer	P7S_WG
C.W10.	the benefits and risks of the presence of genetically modified organisms (GMOs) in the ecosystem	P7S_WG
C.W11.	the genetic mechanisms for the acquisition of drug resistance by micro-organisms and cancer cells	P7S_WG
C.W12.	micro-organisms, including pathogenic and those present in the physiological flora	P7S_WG
C.W13.	the epidemiology of viral and bacterial infections, as well as fungal and parasitic infections, taking into account their geographical distribution	P7S_WG
C.W14.	the influence of abiotic and biotic (viruses, bacteria) environmental factors on the human body and human populations and the pathways of their entry into the human body	P7S_WG
C.W15.	the consequences of exposure of the human body to various chemical and biological agents and the principles of prevention	P7S_WG
C.W16.	the invasive forms or stages of development of selected parasitic fungi, protozoa, helminths and arthropods in humans, taking into account their geographical distribution	P7S_WG
C.W17.	the functioning of the parasite-host system and the main symptoms of disease caused by parasites	P7S_WG

C.W18.	the symptoms of iatrogenic infections, the routes of their spread and the pathogens causing lesions in the various organs	P7S_WG
C.W19.	the basics of microbiological and parasitological diagnostics	P7S_WG
C.W20.	the basics of disinfection, sterilisation and aseptic techniques	P7S_WG
C.W21.	the basic development and mechanisms of action of the immune system, including specific and non-specific humoral and cellular immunity mechanisms	P7S_WG
C.W22.	the major histocompatibility complex	P7S_WG
C.W23.	the types of hypersensitivity reactions, types of immunodeficiency and basics of immunomodulation	P7S_WG
C.W24.	the issues of cancer immunology	P7S_WG
C.W25.	the genetic basis of donor and recipient selection and the basis of transplantation immunology	P7S_WG
C.W26.	the pathomorphological nomenclature	P7S_WG
C.W27.	the basic mechanisms of cell and tissue damage	P7S_WG
C.W28.	the clinical course of specific and non-specific inflammations and tissue and organ regeneration processes	P7S_WG
C.W29.	the definition and pathophysiology of shock, with particular reference to differentiation between causes of shock and multi-organ failure	P7S_WG
C.W30.	the aetiology of haemodynamic disorders, retrograde changes and progressive changes	P7S_WG
C.W31.	the issues in detailed organ pathology, macroscopic and microscopic images and the clinical course of pathomorphological changes in individual organs	P7S_WG
C.W32.	the consequences of developing pathological changes on topographically adjacent organs	P7S_WG
C.W33.	the external and internal pathogens, modifiable and non-modifiable	P7S_WG
C.W34.	the clinical forms of the most frequent diseases of individual systems and organs, metabolic diseases and disorders of water-mineral, hormonal and acid-base balance	P7S_WG
C.W35.	the individual groups of medicinal products	P7S_WG
C.W36.	the main mechanisms of action of drugs and their age-dependent transformations in the body	P7S_WG
C.W37.	the impact of disease processes on drug metabolism and elimination	P7S_WG
C.W38.	the basic principles of pharmacotherapy	P7S_WG
C.W39.	the major adverse drug reactions, including those resulting from drug interactions	P7S_WG
C.W40.	the problem of drug resistance, including multi-drug resistance	P7S_WG
C.W41.	the indications for genetic testing to individualise pharmacotherapy	P7S_WG
C.W42.	the basic trends in the development of therapies, in particular the potential of cellular, gene and targeted therapies for specific diseases	P7S_WG
C.W43.	the basic concepts of general toxicology	P7S_WG
C.W44.	the groups of drugs whose abuse can lead to poisoning	P7S_WG
C.W45.	the symptoms of the most common acute poisonings, including those involving alcohol, drugs and other psychoactive substances as well as heavy metals and selected groups of drugs	P7S_WG
C.W46.	the basic principles of diagnostic procedures in poisoning	P7S_WG
C.W47.	the effect of oxidative stress on cells and its importance in disease pathogenesis and ageing processes	P7S_WG
C.W48.	the consequences of vitamin or mineral deficiencies or their excess in the body	P7S_WG
C.W49.	the enzymes involved in digestion, the mechanism of hydrochloric acid production in the stomach, the role of bile, the course of absorption of digestive products	P7S_WG
C.W50.	the consequences of poor nutrition, including prolonged starvation, excessive meals and unbalanced diets, and disturbances in digestion and absorption of digestive products	P7S_WG
C.W51.	the mechanism of action of hormones	P7S_WG
D.W1.	the social dimension of health and illness, the impact of the social environment (family, networks of social relations) and social inequalities as well as socio-	P7S_WG

	cultural differences on health, and the role of social stress in health-related and self-destructive behaviours	
D.W2.	the social factors influencing behaviour in health and in illness, particularly in chronic illness	P7S_WG
D.W3.	the forms of violence, models explaining violence in the family and violence in selected institutions, the social determinants of various forms of violence and the role of the doctor in recognising it	P7S_WG
D.W4.	the social attitudes to the meaning of health, illness, disability and old age, the social consequences of illness and disability and socio-cultural barriers, as well as the concept of health-related quality of life	P7S_WG
D.W5.	the principles and methods of communication with the patient and his/her family to build an empathic, trusting relationship	P7S_WG
D.W6.	the importance of verbal and non-verbal communication in communication with the patient and the concept of trust in interaction with the patient	P7S_WG
D.W7.	the psychosocial consequences of hospitalisation and chronic illness	P7S_WG
D.W8.	the functioning of health system entities and the social role of the doctor	P7S_WG
D.W9.	the basic psychological mechanisms of human functioning in health and in sickness	P7S_WG
D.W10.	the role of the patient's family in the process of treatment	P7S_WG
D.W11.	the issue of the adaptation of the patient and his/her family to the illness as a difficult situation and to related events, including dying and the process of family grieving	P7S_WG
D.W12.	the role of stress in the aetiopathogenesis and course of diseases and coping mechanisms	P7S_WG
D.W13.	the mechanisms, aims and treatment of addiction to psychoactive substances	P7S_WG
D.W14.	the principles of health promotion, its tasks and main lines of action, with particular emphasis on knowledge of the role of healthy lifestyle elements	P7S_WG
D.W15.	the principles of motivating the patient towards healthy behaviour and informing about an unfavourable prognosis	P7S_WG
D.W16.	the main concepts, theories, ethical principles that serve as a general framework for properly interpreting and analysing moral-medical issues	P7S_WG
D.W17.	the rights of the patient	P7S_WG
D.W18.	the principles of teamwork	P7S_WG
D.W19.	the cultural, ethnic and national determinants of human behaviour	P7S_WG
D.W20.	the history of medicine, the medicine of primitive societies and the most ancient civilisations and the characteristic features of medieval medicine	P7S_WG
D.W21.	the features of modern medicine and its most important discoveries	P7S_WG
D.W22.	the process of formation of new specialties within the scope of scientific discipline - medical sciences and achievements of leading representatives of Polish and world medicine	P7S_WG
D.W23.	the foundations of evidence-based medicine	P7S_WG
E.W1.	the environmental and epidemiological determinants of the most common diseases	P7S_WG
E.W2.	the principles of nutrition for healthy and sick children, including natural feeding, immunisation and keeping a child's health record	P7S_WG
E.W3.	the causes, symptoms, principles of diagnosis and therapeutic management of the diseases that are most frequent in children: 1) rickets, tetany, convulsions, 2) heart defects, myocarditis, endocarditis and pericarditis, cardiomyopathy, cardiac arrhythmias, heart failure, hypertension, vaso-vagal episodes, 3) acute and chronic diseases of the upper and lower respiratory tract, congenital malformations of the respiratory system, tuberculosis, cystic fibrosis, asthma, allergic rhinitis, urticaria, anaphylactic shock, angioedema, 4) anaemias, haemorrhagic diathesis, bone marrow failure, childhood cancers, including solid tumours typical of childhood, 5) acute and chronic abdominal pain, vomiting, diarrhoea, constipation,	P7S_WG

	gastrointestinal bleeding, peptic ulcer disease, inflammatory bowel diseases, pancreatic diseases, cholestasis and liver diseases and other acquired diseases and congenital defects of the gastrointestinal tract, 6) urinary tract infections, congenital defects of the urinary tract, nephrotic syndrome, kidney stones, acute and chronic renal failure, acute and chronic nephritis, systemic kidney diseases, urinary disorders, vesicoureteral reflux disease, 7) growth disorders, thyroid and parathyroid diseases, adrenal diseases, diabetes, obesity, puberty and gonadal function disorders, 8) cerebral palsy, encephalitis and meningitis, epilepsy, 9) the most common childhood infectious diseases, 10) genetic syndromes, 11) connective tissue diseases, rheumatic fever, juvenile arthritis, systemic lupus, dermatomyositis	
E.W4.	the issues of abused children including sexual abuse, mental retardation and behavioural disorders - psychoses, addictions, eating and excretion disorders in children	P7S_WG
E.W5.	the basic methods of diagnosis and treatment of the foetus	P7S_WG
E.W6.	the most common life-threatening conditions in children and the management of these conditions	P7S_WG
E.W7.	the causes, symptoms, principles of diagnosis and therapeutic management of the most common internal diseases affecting adults and their complications: 1) cardiovascular diseases, including ischaemic heart disease, heart defects, diseases of the endocardium, heart muscle, pericardium, heart failure (acute and chronic), arterial and venous vascular diseases, hypertension - primary and secondary, pulmonary hypertension, 2) diseases of the respiratory system, including respiratory tract diseases, chronic obstructive pulmonary disease, bronchial asthma, bronchial dilatation, cystic fibrosis, respiratory infections, interstitial lung diseases, pleural diseases, mediastinal diseases, obstructive and central sleep apnoea, respiratory failure (acute and chronic), respiratory cancers, 3) diseases of the digestive system, including diseases of the oral cavity, oesophagus, stomach and duodenum, intestines, pancreas, liver, bile ducts and gallbladder, 4) endocrine diseases, including hypothalamus and pituitary, thyroid, parathyroid gland, cortex of the adrenal gland and suprarenal medulla, ovarian and testicular diseases and neuroendocrine tumours, polyglandular syndromes, different types of diabetes mellitus and metabolic syndrome - hypoglycaemia, obesity, dyslipidaemia, 5) kidney and urinary tract diseases, including acute and chronic renal failure, glomerular and interstitial kidney diseases, renal cysts, kidney stones, urinary tract infections, and urinary tract tumours, in particular of the bladder and kidney, 6) haematopoietic diseases including bone marrow aplasia, anaemia, granulocytopenia and agranulocytosis, thrombocytopenia, acute leukaemias, myeloproliferative neoplasms and myelodysplastic/myeloproliferative neoplasms, myelodysplastic syndromes, mature B and T cell neoplasms, haemorrhagic diathesis, thrombophilia, life-threatening conditions in haematology, blood disorders in diseases of other organs, 7) rheumatic diseases, including systemic connective tissue diseases, systemic vasculitis, arthritis with spinal involvement, metabolic bone diseases, in particular osteoporosis and osteoarthritis, gout, 8) allergic diseases, including anaphylaxis and anaphylactic shock, and angioedema, 9) water-electrolyte and acid-base disorders: states of dehydration, states of overhydration, electrolyte disturbances, acidosis and alkalosis	P7S_WG

E.W8.	the course and manifestations of the ageing process and the principles of holistic geriatric assessment and interdisciplinary care in relation to the elderly patient	P7S_WG
E.W9.	the causes and main specificities of the most common diseases affecting the elderly and the management of the main geriatric syndromes	P7S_WG
E.W10.	the basic principles of pharmacotherapy of diseases affecting the elderly	P7S_WG
E.W11.	the risks associated with hospitalisation of the elderly	P7S_WG
E.W12.	the basic principles of organising care for the elderly and the responsibilities of a caregiver for the elderly person	P7S_WG
E.W13.	basic neurological symptom clusters	P7S_WG
E.W14.	causes, symptoms, principles of diagnosis and therapeutic management of the most common diseases of the nervous system, including: 1) headache, migraine, tension-type headache and headache syndromes, and V nerve neuralgia, 2) cerebrovascular diseases, in particular stroke, 3) epilepsy 4) infections of the nervous system, in particular meningitis, lyme disease, herpes simplex encephalitis, neurotransmission diseases, 5) dementias, in particular Alzheimer's disease, frontotemporal dementia, vascular dementia and other dementia syndromes, 6) basal ganglia diseases, in particular Parkinson's disease, 7) demyelinating diseases, in particular multiple sclerosis, 8) diseases of the neuromuscular system, in particular amyotrophic lateral sclerosis and sciatica, 9) craniocerebral trauma, in particular concussion	P7S_WG
E.W15.	the basic concepts of pathogenesis of mental disorders	P7S_WG
E.W16.	the general symptomatology of mental disorders and the principles for their classification according to the main classification systems	P7S_WG
E.W17.	the symptoms, diagnosis and therapeutic management of the most common mental disorders, including: 1) schizophrenia, 2) affective disorders, 3) neurosis and adjustment disorders, 4) eating disorders, 5) disorders related to the use of psychoactive substances, 6) sleep disorders	P7S_WG
E.W18.	the principles of diagnosis and management of psychiatric emergencies, including suicide	P7S_WG
E.W19.	the specificity of mental disorders and their treatment in children, adolescents and in old age	P7S_WG
E.W20.	the symptoms of mental disorders in the course of somatic diseases, their impact on the course of the underlying disease and prognosis, and the principles of their treatment	P7S_WG
E.W21.	the issue of human sexuality and the main disorders associated with it	P7S_WG
E.W22.	the legislation on mental health protection, with particular reference to the rules on admission to a psychiatric hospital	P7S_WG
E.W23.	the environmental and epidemiological determinants of the most common cancers	P7S_WG
E.W24.	the basics of early cancer detection and principles of screening in oncology	P7S_WG
E.W25.	the possibilities of modern cancer therapy including multimodal therapy, perspectives of cellular and gene therapies and their adverse effects	P7S_WG
E.W26.	the principles of combination therapies in oncology, algorithms of diagnostic and therapeutic management in the most frequent tumours	P7S_WG
E.W27.	the principles of diagnosis and therapeutic management of the most common problems in palliative medicine, including: 1) symptomatic treatment of the most common somatic symptoms, 2) the management of cancer cachexia and the prevention and treatment of	P7S_WG

	pressure sores, 3) the most common emergencies in palliative medicine;	
E.W28.	the principles of palliative management of a patient in a terminal condition	P7S_WG
E.W29.	principles of pain treatment, including neoplastic and chronic pain	P7S_WG
E.W30.	the concept of disability and invalidity	P7S_WG
E.W31.	the role of medical rehabilitation and the methods used in it	P7S_WG
E.W32.	the basic aspects of prevention and the rules of conduct in the event of work-related exposure to hazardous and noxious agents	P7S_WG
E.W33.	the rules concerning the detection of an infectious disease	P7S_WG
E.W34.	the causes, symptoms, principles of diagnosis and therapeutic and prophylactic management of the most common bacterial, viral, parasitic and fungal diseases, including pneumococcal infections, viral hepatitis, acquired immunodeficiency syndrome (AIDS), sepsis and nosocomial infections	P7S_WG
E.W35.	the main characteristics, environmental and epidemiological conditions of the most frequent skin diseases	P7S_WG
E.W36.	the causes, symptoms, principles of diagnosis and therapeutic management of the most common sexually transmitted diseases	P7S_WG
E.W37.	the causes, symptoms, principles of diagnosis and therapeutic management of the most common hereditary diseases	P7S_WG
E.W38.	the causes, symptoms, principles of diagnosis and therapeutic management of the most common diseases and specific problems in the practice of the family doctor	P7S_WG
E.W39.	the types of biological materials used in laboratory diagnosis and the principles for collecting material for tests	P7S_WG
E.W40.	the theoretical and practical background of laboratory diagnostics	P7S_WG
E.W41.	the possibilities and limitations of laboratory tests in emergencies	P7S_WG
E.W42.	the indications for implementing monitored therapy	P7S_WG
E.W43.	the basic pharmacoeconomic terminology	P7S_WG
F.W1.	the causes, symptoms, principles of diagnosis and therapeutic management of the most common diseases requiring surgical intervention, taking into account the specificity of child's age, including in particular: 1) acute and chronic abdominal diseases, 2) thoracic diseases, 3) diseases of the limbs and head, 4) bone fractures and organ injuries	P7S_WG
F.W2.	the selected issues in paediatric surgery, including traumatology and otorhinolaryngology, as well as defects and acquired diseases that are indications for surgical treatment in children	P7S_WG
F.W3.	the principles of qualification for basic surgical procedures and invasive diagnostic and therapeutic procedures, the principles of their performance and the most frequent complications	P7S_WG
F.W4.	the principles of perioperative safety, preparing the patient for surgery, administering general and local anaesthesia and controlled sedation	P7S_WG
F.W5.	the postoperative treatment with pain therapy and postoperative monitoring	P7S_WG
F.W6.	the indications and principles of intensive care	P7S_WG
F.W7.	the cardiopulmonary resuscitation guidelines for newborns, children and adults	P7S_WG
F.W8.	the principles of operation of the integrated system of the State Medical Rescue Services	P7S_WG
F.W9.	the female reproductive function, associated disorders and diagnostic and therapeutic management, concerning in particular: 1) the menstrual cycle and its disorders, 2) pregnancy, 3) the physiological and pathological childbirth and the puerperium, 4) inflammations and tumours in the genital area, 5) birth control, 6) menopause,	P7S_WG

	7) the basic gynaecological diagnostic methods and procedures	
F.W10.	the issues surrounding the use of contemporary imaging examinations, in particular: 1) the radiological symptomatology of the principal diseases, 2) the instrumental methods and imaging techniques used to perform medical procedures, 3) the indications, contraindications and preparation of the patient for particular types of imaging examination and contraindications to the use of contrast agents	P7S_WG
F.W11.	the issues related to ocular diseases, in particular: 1) the causes, symptoms, principles of diagnosis and therapeutic management of the most common ophthalmic diseases, 2) the ophthalmic complications of systemic diseases together with their ophthalmic symptomatology and correct methods of management in these cases, 3) surgical management of specific ocular diseases, 4) the main groups of drugs used in ophthalmology, their side effects and interactions, 5) the groups of drugs for general use with which ophthalmic complications and contraindications are associated and their mechanism	P7S_WG
F.W12.	the issues in the field of laryngology, phoniatrics and audiology, including: 1) the causes, clinical course, treatment methods, complications and prognosis of diseases of the ear, nose, paranasal sinuses, oral cavity, pharynx and larynx, 2) diseases of the facial nerve and selected neck structures, 3) the principles of diagnostic and therapeutic management of mechanical injuries to the ear, nose, larynx and oesophagus, 4) principles of emergency management in otorhinolaryngology, especially laryngeal dyspnoea, 5) the principles of diagnostic and therapeutic management of hearing, voice and speech disorders, 6) the principles of diagnostic and therapeutic management of head and neck cancer	P7S_WG
F.W13.	the causes symptoms, principles of diagnosis and therapeutic management of the most common diseases of the central nervous system in terms of: 1) cerebral oedema and its sequelae, with particular reference to emergencies, 2) other forms of intracranial constriction with their consequences, 3) craniocerebral trauma, 4) vascular defects of the central nervous system, 5) tumours of the central nervous system, 6) diseases of the spine and spinal cord	P7S_WG
F.W14.	the basic coverage of procedural transplantation, indications for transplantation of irreversibly damaged organs and tissues and related procedures	P7S_WG
F.W15.	the principles for suspicion and diagnosis of brain death	P7S_WG
F.W16.	the management algorithm for the different stages of accidental hypothermia and post-traumatic hypothermia	P7S_WG
G.W1.	the methods for assessing the health status of individuals and populations, various systems of classifying diseases and medical procedures	P7S_WG
G.W2.	the means of identifying and investigating risk factors, the advantages and disadvantages of different types of epidemiological studies, and the measures demonstrating the presence of a cause-and-effect relationship	P7S_WG
G.W3.	the epidemiology of infectious and chronic diseases, ways of preventing their occurrence at different stages of the natural history of a disease, and the role of epidemiological surveillance	P7S_WG
G.W4.	the concept of public health, its objectives, tasks and the structure and organisation of the health care system at national and global level, and the impact of economic conditions on health care capacity	P7S_WG

G.W5.	the legislation on the provision of health services, patient rights, labour law, the basis of the medical profession and the functioning of the medical self-governing body	P7S_WG
G.W6.	the basic legal regulations on the organisation and financing of the health care system, universal health insurance and the principles of organisation of health care entities	P7S_WG
G.W7.	the legal obligations of the medical practitioner in relation to confirmation of death	P7S_WG
G.W8.	the legal regulations and basic methods relating to medical experimentation and the conduct of other medical research, including basic methods of data analysis	P7S_WG
G.W9.	the legal regulations on transplantation, artificial procreation, abortion, aesthetic treatments, palliative care, mental illness	P7S_WG
G.W10.	the basic regulations of pharmaceutical law	P7S_WG
G.W11.	the legal regulations regarding medical confidentiality medical record keeping, criminal, civil and professional liability of the medical practitioner	P7S_WG
G.W12.	the concepts of violent death and sudden death and the differences between injury and trauma	P7S_WG
G.W13.	the legal foundations and principles of the medical practitioner's conduct during examinations of the deceased at the scene and the forensic medical examination of the deceased	P7S_WG
G.W14.	the principles of forensic medical diagnosis and opinion in cases involving infanticide and the reconstruction of the circumstances of a road accident	P7S_WG
G.W15.	the rules on the preparation of expert opinions in criminal matters	P7S_WG
G.W16.	the forensic medical opinion rules regarding fitness to stand trial, biological endpoint and impairment of health	P7S_WG
G.W17.	the concept of medical error, the most common causes of medical errors and the rules governing opinions in such cases	P7S_WG
G.W18.	the principles for collecting material for toxicological and haemogenetic tests	P7S_WG
	SKILLS (is able to)	
A.U1.	operate an optical microscope, including the use of immersion	P7S_UW
A.U2.	recognise in optical or electron microscope images the histological structures corresponding to organs, tissues, cells and cellular structures, describe and interpret these structures and the relationship between structure and function	P7S_UW
A.U3.	explain the anatomical basis of the physical examination	P7S_UW
A.U4.	deduce relationships between anatomical structures on the basis of diagnostic examinations, in particular radiology (radiographs, examination with contrast agents, computed tomography and nuclear magnetic resonance)	P7S_UW
A.U5.	use verbal and written anatomical, histological and embryological terminology	P7S_UW
B.U1.	use knowledge of the laws of physics to explain the effects of external factors such as temperature, acceleration, pressure, electromagnetic field and ionising radiation on the body and its components	P7S_UW
B.U2.	assess the harmfulness of the dose of ionising radiation and comply with radiological protection rules	P7S_UW
B.U3.	calculate the molar and percentage concentrations of compounds and the concentrations of substances in iso-osmotic, mono- and multi-component solutions	P7S_UW
B.U4.	calculate the solubility of inorganic compounds, determine the chemical basis of the solubility or lack thereof of organic compounds and its practical significance for dietetics and therapeutics	P7S_UW
B.U5.	determine the pH of a solution and the effect of changes in pH on inorganic and organic compounds	P7S_UW
B.U6.	predict the direction of biochemical processes in relation to the energy state of cells	P7S_UW
B.U7.	perform simple functional tests assessing the human body as a system of stable regulation (stress tests, exercise tests) and interpret numerical data on basic physiological variables	P7S_UW

B.U8.	use basic laboratory techniques such as qualitative analysis, titration, colorimetry, pH monitoring, chromatography, electrophoresis of proteins and nucleic acids	P7S_UW
B.U9.	operate simple measuring instruments and assess the accuracy of the taken measurements	P7S_UW
B.U10.	use databases, including online databases, and search for required information using the available tools	P7S_UW
B.U11.	choose an appropriate statistical test, perform basic statistical analyses, use appropriate methods for the presentation of results, interpret results of meta-analyses and perform survival probability analysis	P7S_UW
B.U12.	explain the differences between prospective and retrospective, randomised and case-control studies, case reports and experimental studies, and rank them according to the reliability and the quality of scientific evidence	P7S_UW
B.U13.	plan and carry out simple scientific research, interpret the results and draw conclusions from them	P7S_UW
C.U1.	analyse genetic crosses and pedigrees of human traits and diseases, and assess the risk of a child being born with chromosome aberrations	P7S_UW
C.U2.	identify indications for performing prenatal tests	P7S_UW
C.U3.	decide on the need for cytogenetic and molecular tests	P7S_UW
C.U4.	perform morphometric measurements, analyse the morphogram and record disease karyotypes	P7S_UW
C.U5.	estimate the risk of an offspring developing a particular disease based on family predisposition and the influence of environmental factors	P7S_UW
C.U6.	evaluate the environmental risks and use basic methods to detect the presence of harmful agents (biological and chemical) in the biosphere	P7S_UW
C.U7.	recognise the most common human parasites on the basis of their structure, life cycles and disease symptoms	P7S_UW
C.U8.	use the antigen-antibody reaction in current modifications and techniques for the diagnosis of infectious, allergic, autoimmune and neoplastic diseases and blood disorders	P7S_UW
C.U9.	make preparations and recognise pathogens under the microscope	P7S_UW
C.U10.	interpret microbiological test results	P7S_UW
C.U11.	associate the images of tissue and organ damage with clinical signs of disease, history and laboratory findings	P7S_UW
C.U12.	analyse the reactive, defensive and adaptive phenomena and impairment of regulation caused by the aetiological agent	P7S_UW
C.U13.	perform simple pharmacokinetic calculations	P7S_UW
C.U14.	select drugs in appropriate doses to correct pathological phenomena in the system and in individual organs	P7S_UW
C.U15.	design regimens for rational, empirical and targeted chemotherapy of infections	P7S_UW
C.U16.	prepare records of all formulations of medicinal substances	P7S_UW
C.U17.	use pharmaceutical guides and databases on medicinal products	P7S_UW
C.U18.	assess toxicological risks in specific age groups and in hepatic and renal failure states and prevent drug poisoning	P7S_UW
C.U19.	interpret the results of toxicological tests	P7S_UW
C.U20.	describe the changes in bodily functions when homeostasis is disturbed, particularly the integrated response to exercise, exposure to high and low temperatures, loss of blood or water, sudden verticalisation, and the transition from sleep to wake-up	P7S_UW
D.U1.	take into consideration, in the therapeutic process, the subjective needs and expectations of the patient resulting from socio-cultural conditions	P7S_UW
D.U2.	recognise the signs of anti-health and self-destructive behaviour and react appropriately to them	P7S_UW
D.U3.	choose treatment that minimises the social consequences for the patient	P7S_UW
D.U4.	build an atmosphere of trust throughout the diagnostic and treatment process	P7S_UK

D.U5.	interview an adult patient, a child and a family using active listening techniques and expressing empathy, and talk to the patient about their life situation	P7S_UK
D.U6.	inform the patient of the aim, course and possible risks of the proposed diagnostic or therapeutic measures, and obtain the patient's informed consent for these measures	P7S_UK
D.U7.	involve the patient in the therapeutic process	P7S_UK
D.U8.	inform the patient and his/her family of the poor prognosis	P7S_UK
D.U9.	provide advice on compliance with therapeutic recommendations and a healthy lifestyle	P7S_UK
D.U10.	identify risk factors for violence, recognise violence and respond appropriately	P7S_UW
D.U11.	apply basic psychological motivational and supportive interventions	P7S_UW
D.U12.	communicate with colleagues, providing feedback and support	P7S_UK
D.U13.	respect ethical standards in professional activities	P7S_UW
D.U14.	recognise the ethical dimension of medical decisions and distinguish between factual and normative aspects	P7S_UW
D.U15.	respect the rights of the patient	P7S_UW
D.U16.	demonstrate responsibility for improving their own skills and passing their knowledge on to others	P7S_UW
D.U17.	critically analyse medical literature, including literature written in English, and draw conclusions	P7S_UK
D.U18.	communicate with the patient in one of the foreign languages at B2+ level of the Common European Framework of Reference for Languages	P7S_UK
E.U1.	conduct anamnesis with an adult patient	P7S_UK
E.U2.	carry out a medical interview with a child and its family	P7S_UK
E.U3.	conduct a complete and focused physical examination of an adult patient	P7S_UK
E.U4.	conduct a physical examination on a child of any age	P7S_UK
E.U5.	conduct a psychiatric examination	P7S_UK
E.U6.	conduct an orientation hearing and visual field examination as well as an otoscopic examination	P7S_UW
E.U7.	assess the general condition, state of consciousness and awareness of the patient	P7S_UW
E.U8.	assess the neonate's Apgar score and maturity and examine neonatal reflexes	P7S_UW
E.U9.	match anthropometric and blood pressure measurements with data on centile grids	P7S_UW
E.U10	assess the stage of sexual maturation	P7S_UW
E.U11.	conduct a balance study	P7S_UW
E.U12.	perform differential diagnosis of the most common diseases of adults and children	P7S_UW
E.U13.	assess and describe the somatic and psychological state of the patient	P7S_UW
E.U14.	recognise immediate life-threatening conditions	P7S_UW
E.U15.	recognise the state of a person under the influence of alcohol, drugs and other stimulants	P7S_UW
E.U16.	plan diagnostic, therapeutic and preventive procedures	P7S_UW
E.U17.	conduct an analysis of possible adverse reactions to and interactions between individual drugs	P7S_UW
E.U18.	propose individualisation of existing therapeutic guidelines and other methods of treatment in the event of ineffectiveness or contraindications to standard therapy	P7S_UW
E.U19.	recognise symptoms of drug dependence and suggest therapeutic management	P7S_UW
E.U20.	qualify the patient for home and hospital treatment	P7S_UW
E.U21.	recognise conditions where the patient's life expectancy, functional status or preferences restrict management according to disease-specific guidelines	P7S_UW
E.U22.	make a functional assessment of a patient with disabilities	P7S_UW
E.U23.	propose a rehabilitation programme for the most common diseases	P7S_UW
E.U24.	interpret laboratory test results and identify causes of deviations from the norm	P7S_UW
E.U25.	administer nutritional treatment, including enteral and parenteral nutrition	P7S_UW
E.U26.	plan the management in the event of exposure to a blood-borne infection	P7S_UW
E.U27.	qualify the patient for vaccination	P7S_UW

E.U28.	collect and preserve material for tests used in laboratory diagnosis	P7S_UW
E.U29.	perform basic medical procedures and treatments including: 1) measurement of body temperature (surface and deep), heart rate measurement, non-invasive blood pressure measurement, 2) monitoring of vital signs with a cardiomonitor, pulse oximetry, 3) spirometric examination, oxygen treatment, support and mechanical ventilation, 4) inserting an oropharyngeal tube, 5) intravenous, intramuscular and subcutaneous injections, peripheral venous cannulation, collection of peripheral venous blood, collection of blood for culture, collection of arterial blood, collection of arterialised capillary blood, 6) taking nasal, throat and skin swabs, 7) bladder catheterisation in women and men, gastric probing, gastric lavage, enema, 8) standard resting electrocardiogram with interpretation, electrical cardioversion and cardiac defibrillation, 9) simple strip tests and blood glucose measurement	P7S_UW
E.U30.	assist in performing the following medical procedures and treatments: 1) transfusion of blood and blood products, 2) the drainage of the pleural cavity, 3) the pericardiocentesis, 4) the puncture of the peritoneal cavity, 5) the spinal tap, 6) the fine-needle biopsy, 7) the epidermal tests 8) the intradermal and the scarification tests and interpreting their results	P7S_UW
E.U31.	interpret the pharmaceutical characteristics of medicinal products and critically evaluate advertising material for medicines	P7S_UW
E.U32.	plan specialist consultations	P7S_UW
E.U33.	implement basic medical treatment for acute poisoning	P7S_UW
E.U34.	monitor the condition of a patient poisoned by chemicals or drugs	P7S_UW
E.U35.	assess pressure sores and apply appropriate dressings	P7S_UW
E.U36.	deal with injuries (apply a dressing or immobiliser, dress and stitch up a wound)	P7S_UW
E.U37.	recognise patient agony and pronounce patient's death	P7S_UW
E.U38.	maintain patient medical records	P7S_UW
F.U1.	assist in a typical surgical procedure, prepare the surgical field and administer local anaesthetic to the surgical area	P7S_UW
F.U2.	use basic surgical instruments	P7S_UW
F.U3.	comply with the principles of asepsis and antisepsis	P7S_UW
F.U4.	dress a simple wound, apply and change a sterile surgical dressing	P7S_UW
F.U5.	insert intravenous line	P7S_UW
F.U6.	examine the nipples, lymph nodes, thyroid gland and abdominal cavity in terms of the acute abdomen and perform a finger examination through the rectum	P7S_UW
F.U7.	assess the radiographic findings for the most common types of fracture, particularly long bone fractures	P7S_UW
F.U8.	perform temporary immobilisation of the limb, choose the type of immobilisation necessary for use in typical clinical situations and check the supply of the blood to the limb after applying immobilisation dressing	P7S_UW
F.U9.	treat external bleeding	P7S_UW
F.U10.	perform basic resuscitation using an automated external defibrillator and other emergency procedures as well as first aid	P7S_UW
F.U11.	act in accordance with the advanced resuscitation algorithm	P7S_UW
F.U12.	monitor the patient's condition in the postoperative period based on basic vital signs	P7S_UW
F.U13.	recognise signs and symptoms indicative of abnormal pregnancy (abnormal bleeding, contractile activity of the uterus)	P7S_UW

F.U14.	interpret the results of physical examination of a pregnant woman (blood pressure, maternal and foetal heart rate) and the results of laboratory tests indicative of pathologies in pregnancy	P7S_UW
F.U15.	interpret cardiotocography (CTG) recordings	P7S_UW
F.U16.	recognise the beginning of labour and its abnormal duration	P7S_UW
F.U17.	interpret subjective and physical symptoms during puerperium	P7S_UW
F.U18.	establish recommendations, indications and contraindications for the use of contraceptive methods	P7S_UW
F.U19.	carry out ophthalmic screening	P7S_UW
F.U20.	recognise ophthalmic conditions requiring immediate specialist assistance and provide initial qualified assistance in cases of physical and chemical injury to the eye	P7S_UW
F.U21.	assess the condition of an unconscious patient according to international rating scales	P7S_UW
F.U22.	recognise the symptoms of increasing intracranial pressure	P7S_UW
F.U23.	assess the indications for and participate in the carrying out of a suprapubic aspiration	P7S_UW
F.U24.	assist with typical urological procedures (diagnostic and therapeutic endoscopy of the urinary tract, lithotripsy, prostate puncture)	P7S_UW
F.U25.	perform a basic ENT examination of the ear, nose, throat and larynx	P7S_UW
F.U26.	carry out an orientation hearing test	P7S_UW
G.U1.	describe the demographic structure of the population and on this basis assess the health problems of the population	P7S_UW
G.U2.	collect information on the presence of risk factors for infectious and chronic diseases and plan preventive actions at different levels of prevention	P7S_UW
G.U3.	interpret the measures of prevalence of disease and disability	P7S_UW
G.U4.	evaluate the epidemiological situation of diseases commonly occurring in the Republic of Poland and worldwide	P7S_UW
G.U5.	explain to recipients of medical services their basic entitlements and the legal basis for providing these services	P7S_UW
G.U6.	prepare medical certificates for patients, their families and other parties	P7S_UW
G.U7.	recognise, when examining a child, behaviours and symptoms that indicate the possibility that violence against the child may have occurred	P7S_UW
G.U8.	act in such a way as to avoid medical errors	P7S_UW
G.U9.	draw blood samples for toxicological tests and secure material for haemogenetic tests	P7S_UW
SOCIAL COMPETENCES (is ready to)		
K1.	establish and maintain deep and respectful contact with patients, as well as to show understanding for differences in world-related outlooks and cultures	P7S_KR
K2.	be guided by the well-being of a patient	P7S_KO
K3.	respect the medical confidentiality and rights of a patient	P7S_KO
K4.	take action toward patients on the basis of norms and ethical principles with an awareness of social determinants and limitations resulting from the disease	P7S_KK
K5.	see and recognize one's own limitations and to self-assess educational deficits and needs	P7S_KK
K6.	promote health-promoting behaviors	P7S_KR
K7.	use objective sources of information	P7S_KK
K8.	formulate conclusions from their own measurements or observations	P7S_KK
K9.	implement the principles of professional camaraderie and cooperation in a team of specialists, including representatives of other medical professions, including in a multicultural and multinational environment	P7S_KR
K10.	formulate opinions on various aspects of professional activity	P7S_KR
K11.	take responsibility for decisions taken in the course of professional activity, including in terms of their own and other people's safety	P7S_KR