

Appendix No. 2 to Resolution No. 2395 of Senate of Wroclaw Medical University of 27 April 2022



UNIWERSYTET MEDYCZNY im. Piastów Śląskich we Wrocławiu

Study Programme

Faculty: Faculty of Medicine Major: Medicine (English programme) Level of studies: Uniform Master Studies Form of studies: full-time Education cycle: 2021/2022 – 2026/2027



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	5 724
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	6,5
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 2021/2022 – 2026/2027 education cycle Academic year 2021/2022 1st year

					semester 1,	2		
group code	Course	lecture	seminars	other forms	vocational internship	TOTAL HOURS	ECTS POINTS	verification method
А	Anatomy	30	-	130	-	160	13,5	credit/g exam
В	Biochemistry with elements of chemistry (1)	23	10	67	-	100	7,0	credit/g
В	Biophysics	22	-	33	-	55	5,0	credit/g exam
В	Molecular Biology	25	25	15	-	65	6,0	credit/g exam
А	Human Embryology	-	30	-	-	30	2,0	credit/g
D	Medical Ethics	-	30	-	-	30	2,0	credit/g
А	Histology with cytophysiology	20	-	100	-	120	10,0	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
В	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	135	175	509	120	939	60,0	



STUDY PROGRAMME for 2021/2022 – 2026/2027 education cycle Academic year 2022/2023 2nd year

					semester 3,	4		
group code	Course	lecture	seminars	other forms	vocational internship	TOTAL HOURS	ECTS POINTS	verification method
А	Clinical Anatomy	-	-	30	-	30	2,0	credit/g
В	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
В	Physiology	48	-	102	-	150	12,0	credit/g exam
С	Clinical Immunology	20	6	44	-	70	6,0	credit/g exam
D	Polish (2) English (2)	-	-	60	-	60	4,0	credit/g exam
С	Microbiology (1)	20	-	30	-	50	4,0	credit/g
С	Pathophysiology	20	-	60	-	80	7,0	credit/g exam
С	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 2021/2022 – 2026/2027 education cycle Academic year 2023/2024 3rd year

		semester 5, 6								
group code	Course	lecture	seminars	other forms	vocational internship	TOTAL HOURS	ECTS POINTS	verification method		
Е	Laboratory Diagnostics	10	-	30	-	40	2,0	credit/g		
Е	Clinical Dietetics	2	4	4	-	10	1,0	credit/g		
С	Pharmacology and Toxicology	60	-	90	-	150	14,5	credit/g exam		
С	Microbiology (2)	20	-	30	-	50	4,0	credit/g exam		
С	Pathomorphology (2)	30	-	55	-	85	6,5	credit/g exam		
Е	Propaedeutics of Surgery	-	10	20	-	30	2,0	credit/g		
Е	Propaedeutics of Internal Medicine	30	10	60	-	100	9,5	credit/g exam		
Е	Propaedeutics of Oncology	20	10	-	-	30	2,5	credit/g		
Е	Propaedeutics of Paediatrics	28	12	60	-	100	9,0	credit/g exam		
Е	Propaedeutics of Radiology	4	16	-	-	20	1,0	credit/g		
Е	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	204	127	359	120	810	60,0			



STUDY PROGRAMME for 2021/2022 – 2026/2027 education cycle Academic year 2024/2025 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
Е	Infectious Diseases	25	15	60	-	100	5,5	credit/g exam
Е	Dermatology and Venerology	6	12	42	-	60	4,0	credit/g exam
Е	Clinical Pharmacology	5	-	15	-	20	1,0	credit/g
С	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
Е	Paliative Medicine	-	8	17	-	25	1,0	credit/g
G	Forensic Medicine	5	-	30	-	35	2,0	credit/g exam
F	Ophtalmology	20	10	30	-	60	4,0	credit/g exam
F	Ortopedics 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
Е	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 2021/2022 – 2026/2027 education cycle Academic year 2025/2026 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		
Е	Internal Medicine (2)	30	10	50	-	90	5,0	credit/g		
Е	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		
Е	Family Medicine (1)	10	15	40	-	65	3,0	credit/g		
Е	Neonatology	5	10	15	-	30	1,5	credit/g		
F	Neurosurgery	15	5	15	-	35	2,0	credit/g		
Е	Neurology	25	10	55	-	90	5,5	credit/g exam		
Е	Oncology	15	15	30	-	60	4,0	credit/g exam		
Е	Paediatrics (2)	16	12	32	-	60	3,0	credit/g		
G	Medical Law	10	20	-	-	30	2,5	credit/g exam		
Е	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 2021/2022 – 2026/2027 education cycle Academic year 2026/2027 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
Е	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
Е	Family Medicine (2)	-	12	48	-	60	4,0	credit/g exam
Е	Paediatrics (3)	-	25	95	-	120	8,0	credit/g exam
Е	Psychiatry (2)	-	18	42	-	60	4,0	credit/g exam
E lub 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	Learning outcomes	PRK ²
number ¹	Graduate after graduation:	
	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,	P7S_WG
	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	
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	P7S_WG
	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	
B.W1.	(teratogenic) the water-mineral balance of biological systems	P7S_WG
B.W1. B.W2.	the acid-base balance and the mechanism of action of buffers and their importance	P7S_WG
D. W 2.	in body homeostasis	1/5_w0
B.W3.	the terms: solubility, osmotic pressure, isotonia, colloidal solutions and Gibbs-	P7S_WG
D . ((5).	Donnan effect	175_00
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	P7S_WG
	blood flow	
B.W6.	the natural and artificial sources of ionising radiation and their interaction with	P7S_WG
	matter	
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	P7S_WG
	present in cells, the extracellular matrix and body fluids	
B.W11.	the structure of lipids and polysaccharides and their functions in cellular and	P7S_WG
	extracellular structures	
B.W12.	the I-, II-, III- and IV-order structures of proteins and post-translational and	P7S_WG
D 11/10	functional modifications of proteins and their significance	D70 NVC
B.W13.	the function of nucleotides in the cell, the I- and II-order structures of DNA and	P7S_WG
B.W14.	RNA, and the structure of chromatin	D7S WC
D. W 14.	the functions of the human genome, transcriptome and proteome and the principal methods used to study them, the processes of DNA replication, repair and	P7S_WG
	recombination, transcription and translation and the degradation of DNA, RNA	
	and proteins, and the concepts of regulation of gene expression	
B.W15.	the basic catabolic and anabolic pathways, how they are regulated, and how they	P7S_WG
2 12.	are influenced by genetic and environmental factors	1,2,70
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	P7S_WG
	matrix, and the pathways for transmitting signals within the cell, and examples of	
	disruption of these processes leading to cancer and other diseases	

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



W20. the basics of stimulation and conduction in the nervous system and higher nervous functions, as well as strated and smooth muscle physiology and blood functions body, including the cardiovascular system, the repiratory system, the digestive system, the urinary system and the skin, as well as the relationships existing between them P75_W0 W22. the course and regulation of reproductive functions in men and women P75_W0 W23. the bodys agging mechanism P75_W0 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 P75_W0 W25. the relationship between factors disturbing the equilibrium state of biological processes and physiological analysis used in medicine, including medical databases, spreadsheets and basic computer graphics P75_W0 W26. the basic methods of statistical tools used in medicine, including medical databases, studies P75_W0 W27. the basic oncepts of genetics P75_W0 W28. the principles of scientific, observational and experimental research and in vitro P75_W0 W29. the principles of scientific, observational and experimental research and in vitro P75_W0 W20. the pronenge of scientific, observational and experimental research and in vitro P75_W0 W20. the principles of scincific, observational	B.W19. to a basic extent the issue of stem cells and their application in medi B.W20. the basics of stimulation and conduction in the nervous system and I functions, as well as striated and smooth muscle physiology and blo B.W21. the function and regulation mechanisms of all organs and systems of body, including the cardiovascular system, the respiratory system, the system, the urinary system and the skin, as well as the relationships between them B.W22. the course and regulation of reproductive functions in men and wom B.W23. B.W24. the body's ageing mechanism B.W24. the basic quantitative parameters describing the performance of variand organs, including the ranges of norms and demographic factors is values of these parameters B.W25. the relationship between factors disturbing the equilibrium state of b processes and physiological and pathophysiological changes B.W26. the basic TT and biostatistical tools used in medicine, including med spreadsheets and basic computer graphics B.W27. the basic methods of statistical analysis used in population-based an studies B.W28. the potential of modern telemedicine as a tool to support the work of B.W29. B.W28. the principles of scientific, observational and experimental research studies for the development of medicine C.W41. the heacic concepts of genetics C.W42. the phenomena of gene linkage and interactio	cells, in organism	P7S_WG
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C.W31.	the issues in detailed organ pathology, macroscopic and microscopic images and	P7S_WG
	the clinical course of pathomorphological changes in individual organs	
C.W32.	the consequences of developing pathological changes on topographically adjacent	P7S_WG
	organs	
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,	P7S_WG
	metabolic diseases and disorders of water-mineral, hormonal and acid-base	
	balance	
C.W35.	the individual groups of medicinal products	P7S_WG
C.W36.	the main mechanisms of action of drugs and their age-dependent transformations	P7S_WG
~	in the body	
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	P7S_WG
C 11/42	cellular, gene and targeted therapies for specific diseases	DTG NUC
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	P7S_WG
	alcohol, drugs and other psychoactive substances as well as heavy metals and	
C W4C	selected groups of drugs	D70 WC
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	P7S_WG
C.W48.	and ageing processes the consequences of vitamin or mineral deficiencies or their excess in the body	P7S_WG
C.W48. C.W49.	the enzymes involved in digestion, the mechanism of hydrochloric acid production	P7S_WG P7S_WG
C. W 47.	in the stomach, the role of bile, the course of absorption of digestive products	r/s_wu
C.W50.	the consequences of poor nutrition, including prolonged starvation, excessive	P7S_WG
C. 11 JU.	meals and unbalanced diets, and disturbances in digestion and absorption of	1,2_00
	digestive products	
		D7S WC
C W51	I ne mechanism of action of normones	
C.W51. D.W1.	the mechanism of action of hormonesthe social dimension of health and illness, the impact of the social environment	P7S_WG 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: rickets, tetany, convulsions, heart defects, myocarditis, endocarditis and pericarditis, cardiomyopathy, cardiac arrhythmias, heart failure, hypertension, vaso-vagal episodes, 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, anaemias, haemorrhagic diathesis, bone marrow failure, childhood cancers, including solid tumours typical of childhood, acute and chronic abdominal pain, vomiting, diarrhoea, constipation, 	P7S_WG



	KOLOW OLĄSKICH WE WROCERWIC	
	 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, haemorrhagic diathesis, thrombophilia, life-threatening conditions in haematology, blood disorders in diseases of other organs, 7) rheumatic diseases, including anaphylaxis and anaphylactic shock, and angioedema, 9)	P7S_WG



E.W8.	the course and manifestations of the ageing process and the principles of holistic	P7S_WG
	geriatric assessment and interdisciplinary care in relation to the elderly patient	DEG NUG
E.W9.	the causes and main specificities of the most common diseases affecting the	P7S_WG
	elderly and the management of the main geriatric syndromes	DEG NUG
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	P7S_WG
	caregiver for the elderly person	DEG MUG
E.W13.	basic neurological symptom clusters	P7S_WG
E.W14.	causes, symptoms, principles of diagnosis and therapeutic management of the	P7S_WG
	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, 2) apilongu 	
	3) epilepsy () infactions of the normous system in particular maningitis, huma disease	
	4) infections of the nervous system, in particular meningitis, lyme disease,	
	herpes simplex encephalitis, neurotransmission diseases,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	
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	P7S_WG
2. W 10.	classification according to the main classification systems	1/5_00
E.W17.	the symptoms, diagnosis and therapeutic management of the most common mental	P7S_WG
2 17.	disorders, including:	175_00
	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	
E.W18.	the principles of diagnosis and management of psychiatric emergencies, including	P7S_WG
	suicide	_
E.W19.	the specificity of mental disorders and their treatment in children, adolescents and	P7S_WG
	in old age	_
	III Old age	
E.W20.		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	P7S_WG
E.W20.	the symptoms of mental disorders in the course of somatic diseases, their impact	P7S_WG
	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	
E.W21.	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 the issue of human sexuality and the main disorders associated with it	P7S_WG
E.W21.	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. E.W22.	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 the issue of human sexuality and the main disorders associated with it the legislation on mental health protection, with particular reference to the rules on admission to a psychiatric hospital	P7S_WG P7S_WG
E.W21. E.W22. E.W23.	 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 the issue of human sexuality and the main disorders associated with it the legislation on mental health protection, with particular reference to the rules on 	P7S_WG P7S_WG P7S_WG
E.W21. E.W22. E.W23. E.W24.	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 the issue of human sexuality and the main disorders associated with it the legislation on mental health protection, with particular reference to the rules on admission to a psychiatric hospital the environmental and epidemiological determinants of the most common cancers the basics of early cancer detection and principles of screening in oncology	P7S_WG P7S_WG P7S_WG P7S_WG
E.W21. E.W22. E.W23. E.W24.	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 the issue of human sexuality and the main disorders associated with it the legislation on mental health protection, with particular reference to the rules on admission to a psychiatric hospital the environmental and epidemiological determinants of the most common cancers the basics of early cancer detection and principles of screening in oncology the possibilities of modern cancer therapy including multimodal therapy,	P7S_WG P7S_WG P7S_WG P7S_WG
E.W21. E.W22. E.W23. E.W24. E.W25.	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 the issue of human sexuality and the main disorders associated with it the legislation on mental health protection, with particular reference to the rules on admission to a psychiatric hospital the environmental and epidemiological determinants of the most common cancers the basics of early cancer detection and principles of screening in oncology the possibilities of modern cancer therapy including multimodal therapy, perspectives of cellular and gene therapies and their adverse effects	P7S_WG P7S_WG P7S_WG P7S_WG P7S_WG
E.W20. E.W21. E.W22. E.W23. E.W24. E.W25. E.W26.	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 the issue of human sexuality and the main disorders associated with it the legislation on mental health protection, with particular reference to the rules on admission to a psychiatric hospital the environmental and epidemiological determinants of the most common cancers the basics of early cancer detection and principles of screening in oncology the possibilities of modern cancer therapy including multimodal therapy, perspectives of cellular and gene therapies and their adverse effects the principles of combination therapies in oncology, algorithms of diagnostic	P7S_WG P7S_WG P7S_WG P7S_WG P7S_WG
E.W21. E.W22. E.W23. E.W24. E.W25. E.W26.	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 the issue of human sexuality and the main disorders associated with it the legislation on mental health protection, with particular reference to the rules on admission to a psychiatric hospital the environmental and epidemiological determinants of the most common cancers the basics of early cancer detection and principles of screening in oncology the possibilities of modern cancer therapy including multimodal therapy, perspectives of cellular and gene therapies and their adverse effects the principles of combination therapies in oncology, algorithms of diagnostic and therapeutic management in the most frequent tumours	P7S_WG P7S_WG P7S_WG P7S_WG P7S_WG P7S_WG
E.W21. E.W22. E.W23. E.W24. E.W25.	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 the issue of human sexuality and the main disorders associated with it the legislation on mental health protection, with particular reference to the rules on admission to a psychiatric hospital the environmental and epidemiological determinants of the most common cancers the basics of early cancer detection and principles of screening in oncology the possibilities of modern cancer therapy including multimodal therapy, perspectives of cellular and gene therapies and their adverse effects the principles of combination therapies in oncology, algorithms of diagnostic and therapeutic management in the most frequent tumours the principles of diagnosis and therapeutic management of the most common	P7S_WG P7S_WG P7S_WG P7S_WG P7S_WG
E.W21. E.W22. E.W23. E.W24. E.W25. E.W26.	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 the issue of human sexuality and the main disorders associated with it the legislation on mental health protection, with particular reference to the rules on admission to a psychiatric hospital the environmental and epidemiological determinants of the most common cancers the basics of early cancer detection and principles of screening in oncology the possibilities of modern cancer therapy including multimodal therapy, perspectives of cellular and gene therapies and their adverse effects the principles of combination therapies in oncology, algorithms of diagnostic and therapeutic management in the most frequent tumours	P7S_WG P7S_WG P7S_WG P7S_WG P7S_WG 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-	P7S_WG
	related exposure to hazardous and noxious agents	
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	P7S_WG
	management of the most common bacterial, viral, parasitic and fungal diseases,	
	including pneumococcal infections, viral hepatitis, acquired immunodeficiency	
	syndrome (AIDS), sepsis and nosocomial infections	
E.W35.	the main characteristics, environmental and epidemiological conditions of the most	P7S_WG
	frequent skin diseases	
E.W36.	the causes, symptoms, principles of diagnosis and therapeutic management of the	P7S_WG
	most common sexually transmitted diseases	
E.W37.	the causes, symptoms, principles of diagnosis and therapeutic management of the	P7S_WG
	most common hereditary diseases	
E.W38.	the causes, symptoms, principles of diagnosis and therapeutic management of the	P7S_WG
	most common diseases and specific problems in the practice of the family doctor	
E.W39.	the types of biological materials used in laboratory diagnosis and the principles for	P7S_WG
	collecting material for tests	
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	P7S_WG
	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	
F.W2.	the selected issues in paediatric surgery, including traumatology and	P7S_WG
	otorhinolaryngology, as well as defects and acquired diseases that are indications	
	for surgical treatment in children	
F.W3.	the principles of qualification for basic surgical procedures and invasive diagnostic	P7S_WG
	and therapeutic procedures, the principles of their performance and the most	
	frequent complications	
F.W4.	the principles of perioperative safety, preparing the patient for surgery,	P7S_WG
	administering general and local anaesthesia and controlled sedation	
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	P7S_WG
	Services	
F.W9.	the female reproductive function, associated disorders and diagnostic and	P7S_WG
	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,	



issues surrounding the use of contemporary imaging examinations, in ticular: the radiological symptomatology of the principal diseases, the instrumental methods and imaging techniques used to perform medical ocedures, the indications, contraindications and preparation of the patient for particular <u>es of imaging examination and contraindications to the use of contrast agents</u> issues related to ocular diseases, in particular: the causes, symptoms, principles of diagnosis and therapeutic management of most common ophthalmic diseases, the ophthalmic complications of systemic diseases together with their nthalmic symptomatology and correct methods of management in these cases,	P7S_WG P7S_WG
the radiological symptomatology of the principal diseases, the instrumental methods and imaging techniques used to perform medical ocedures, the indications, contraindications and preparation of the patient for particular es of imaging examination and contraindications to the use of contrast agents issues related to ocular diseases, in particular: the causes, symptoms, principles of diagnosis and therapeutic management of most common ophthalmic diseases, the ophthalmic complications of systemic diseases together with their	P7S_WG
the instrumental methods and imaging techniques used to perform medical ocedures, the indications, contraindications and preparation of the patient for particular es of imaging examination and contraindications to the use of contrast agents issues related to ocular diseases, in particular: the causes, symptoms, principles of diagnosis and therapeutic management of most common ophthalmic diseases, the ophthalmic complications of systemic diseases together with their	P7S_WG
becedures, the indications, contraindications and preparation of the patient for particular es of imaging examination and contraindications to the use of contrast agents issues related to ocular diseases, in particular: the causes, symptoms, principles of diagnosis and therapeutic management of most common ophthalmic diseases, the ophthalmic complications of systemic diseases together with their	P7S_WG
the indications, contraindications and preparation of the patient for particular es of imaging examination and contraindications to the use of contrast agents issues related to ocular diseases, in particular: the causes, symptoms, principles of diagnosis and therapeutic management of most common ophthalmic diseases, the ophthalmic complications of systemic diseases together with their	P7S_WG
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issues related to ocular diseases, in particular: the causes, symptoms, principles of diagnosis and therapeutic management of most common ophthalmic diseases, the ophthalmic complications of systemic diseases together with their	P7S_WG
the causes, symptoms, principles of diagnosis and therapeutic management of most common ophthalmic diseases, the ophthalmic complications of systemic diseases together with their	P7S_WG
most common ophthalmic diseases, the ophthalmic complications of systemic diseases together with their	
the ophthalmic complications of systemic diseases together with their	
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the symptometal and correct methods of management in these cases	
thanne symptomatology and correct methods of management in these cases,	
surgical management of specific ocular diseases,	
the main groups of drugs used in ophthalmology, their side effects and	
the groups of drugs for general use with which ophthalmic complications and	
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	1/5_w0
	P7S_WG
	1/5_WU
	P7S_WG
	1,2_00
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	1/2_WU
	D7C WC
	P7S_WG
	the min groups of drugs discent opinianiology, then side effects and traindications are associated and their mechanism issues in the field of laryngology, phoniatrics and audiology, including: the causes, clinical course, treatment methods, complications and prognosis of the car, nose, paranasal sinuses, oral cavity, pharynx and larynx, diseases of the facial nerve and selected neck structures, the principles of diagnostic and therapeutic management of mechanical injuries the ear, nose, larynx and oesophagus, principles of diagnostic and therapeutic management of mechanical injuries the ear, nose, larynx and oesophagus, principles of diagnostic and therapeutic management of hearing, voice and the principles of diagnostic and therapeutic management of hearing, voice and eech disorders, the principles of diagnostic and therapeutic management of head and neck teer causes symptoms, principles of diagnosis and therapeutic management of the st common diseases of the central nervous system in terms of: cerebral oedema and its sequelae, with particular reference to emergencies, other forms of intracranial constriction with their consequences, craniccerebral trauma, vascular defects of the central nervous system, tumours of the central nervous system, diseases of the spine and spinal cord basic coverage of procedural transplantation, indications for transplantation of eversibly damaged organs and tissues and related procedures <u>principles for suspicion and diagnosis of brain death</u> management algorithm for the different stages of accidental hypothermia and st-traumatic hypothermia methods for assessing the health status of individuals and populations, various teems of identifying and investigating risk factors, the advantages and advantages of different types of epidemiological studies, and the measures <u>nonstrating the presence of a cause-and-effect relationship</u> epidemiology of infectious and chronic diseases, and the role of deminological surveillance <u>concept of public health, its objectives, tasks and the structur</u>



G.W5.	the legislation on the provision of health services, patient rights, labour law, the	P7S_WG
0.005.	basis of the medical profession and the functioning of the medical self-governing	175_00
	body	
G.W6.	the basic legal regulations on the organisation and financing of the health care	P7S_WG
0.110.	system, universal health insurance and the principles of organisation of health care	175_00
	entities	
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	P7S_WG
0.110.	the conduct of other medical research, including basic methods of data analysis	175_00
G.W9.	the legal regulations on transplantation, artificial procreation, abortion, aesthetic	P7S_WG
0.117.	treatments, palliative care, mental illness	175_00
G.W10.	the basic regulations of pharmaceutical law	P7S_WG
G.W11.	the legal regulations regarding medical confidentiality medical record keeping,	P7S_WG
0	criminal, civil and professional liability of the medical practitioner	175_00
G.W12.	the concepts of violent death and sudden death and the differences between injury	P7S_WG
0.012.	and trauma	175_00
G.W13.	the legal foundations and principles of the medical practitioner's conduct during	P7S_WG
	examinations of the deceased at the scene and the forensic medical examination of	1,2_10
	the deceased	
G.W14.	the principles of forensic medical diagnosis and opinion in cases involving	P7S_WG
0. 11 17.	infanticide and the reconstruction of the circumstances of a road accident	1,2,40
G.W15.	the rules on the preparation of expert opinions in criminal matters	P7S_WG
G.W15.	the forensic medical opinion rules regarding fitness to stand trial, biological	P7S_WG
J. W 10.	endpoint and impairment of health	175_00
G.W17.	the concept of medical error, the most common causes of medical errors and the	P7S_WG
J. W 17.	rules governing opinions in such cases	175_00
G.W18.	the principles for collecting material for toxicological and haemogenetic tests	P7S_WG
0. 10.	SKILLS (is able to)	175_00
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	P7S_UW
A.02.	corresponding to organs, tissues, cells and cellular structures, describe and	175_0
	interpret these structures and the relationship between structure and function	
A.U3.	explain the anatomical basis of the physical examination	P7S_UW
A.U4.	deduce relationships between anatomical structures on the basis of diagnostic	P7S_UW
A.U4.	examinations, in particular radiology (radiographs, examination with contrast	F75_0W
	agents, computed tomography and nuclear magnetic resonance)	
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	P7S_UW
B.U2.	on the body and its components	P7S_UW
D .U2.	assess the harmfulness of the dose of ionising radiation and comply with	P/S_UW
	radiological protection rules	D7C LUV
B.U3.	calculate the molar and percentage concentrations of compounds and the	P7S_UW
	concentrations of substances in iso-osmotic, mono- and multi-component solutions	D7C LIW
B.U4.	calculate the solubility of inorganic compounds, determine the chemical basis of the solubility or look thereof of organic compounds and its practical significance	P7S_UW
	the solubility or lack thereof of organic compounds and its practical significance	
	for dietetics and therapeutics	D7C LINV
B.U5.	determine the pH of a solution and the effect of changes in pH on inorganic and	P7S_UW
	organic compounds	D70 1337
B.U6.	predict the direction of biochemical processes in relation to the energy state of	P7S_UW
	cells	D70 1111
B.U7.	perform simple functional tests assessing the human body as a system of stable	P7S_UW
	regulation (stress tests, exercise tests) and interpret numerical data on basic	
	physiological variables	



B.U8.	use basic laboratory techniques such as qualitative analysis, titration, colorimetry,	P7S_UW
	pH monitoring, chromatography, electrophoresis of proteins and nucleic acids	
B.U9.	operate simple measuring instruments and assess the accuracy of the taken	P7S_UW
	measurements	DZC LUV
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	P7S_UW
	appropriate methods for the presentation of results, interpret results of meta-	
	analyses and perform survival probability analysis	
B.U12.	explain the differences between prospective and retrospective, randomised and	P7S_UW
	case-control studies, case reports and experimental studies, and rank them	
	according to the reliability and the quality of scientific evidence	
B.U13.	plan and carry out simple scientific research, interpret the results and draw	P7S_UW
	conclusions from them	_
C.U1.	analyse genetic crosses and pedigrees of human traits and diseases, and assess the	P7S_UW
	risk of a child being born with chromosome aberrations	
C.U2.	identify indications for performing prenatal tests	P7S_UW
C.U3.	decide on the need for cytogenetic and molecular tests	P7S_UW
<u>C.U4</u> .	perform morphometric measurements, analyse the morphogram and record disease	P7S_UW
0.07.	karyotypes	1,0_0,0
C.U5.	estimate the risk of an offspring developing a particular disease based on family	P7S_UW
0.00.	predisposition and the influence of environmental factors	1,0_0,0
C.U6.	evaluate the environmental risks and use basic methods to detect the presence of	P7S_UW
C.00.	harmful agents (biological and chemical) in the biosphere	175_0 0
C.U7.	recognise the most common human parasites on the basis of their structure, life	P7S_UW
0.07.	cycles and disease symptoms	175_0 ₩
C.U8.	use the antigen-antibody reaction in current modifications and techniques for the	P7S_UW
C.08.	diagnosis of infectious, allergic, autoimmune and neoplastic diseases and blood	175_0 W
	disorders	
C.U9.	make preparations and recognise pathogens under the microscope	P7S_UW
C.U10.	interpret microbiological test results	P7S_UW
C.U10. C.U11.	associate the images of tissue and organ damage with clinical signs of disease,	P7S_UW
C.UII.	history and laboratory findings	F/5_UW
C.U12.		D7C LIW
C.012.	analyse the reactive, defensive and adaptive phenomena and impairment of	P7S_UW
C 1112	regulation caused by the aetiological agent	D7C LIW
C.U13.	perform simple pharmacokinetic calculations	P7S_UW
C.U14.	select drugs in appropriate doses to correct pathological phenomena in the system	P7S_UW
C 1117	and in individual organs	D70 100
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	P7S_UW
A 11 1 A	states and prevent drug poisoning	D=2
C.U19.	interpret the results of toxicological tests	P7S_UW
C.U20.	describe the changes in bodily functions when homeostasis is disturbed,	P7S_UW
	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	
D.U1.	take into consideration, in the therapeutic process, the subjective needs and	P7S_UW
	expectations of the patient resulting from socio-cultural conditions	
D.U2.	recognise the signs of anti-health and self-destructive behaviour and react	P7S_UW
	appropriately to them	
D.U3.	choose treatment that minimises the social consequences for the patient	P7S_UW
<u>D.05.</u>		



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:	P7S_UW
	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	
E.U30.	assist in performing the following medical procedures and treatments:	P7S_UW
	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	
E.U31.	interpret the pharmaceutical characteristics of medicinal products and critically	P7S_UW
	evaluate advertising material for medicines	
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	P7S_UW
	local anaesthetic to the surgical area	
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	P7S_UW
	the acute abdomen and perform a finger examination through the rectum	
F.U7.	assess the radiographic findings for the most common types of fracture,	P7S_UW
	particularly long bone fractures	
F.U8.	perform temporary immobilisation of the limb, choose the type of immobilisation	P7S_UW
	necessary for use in typical clinical situations and check the supply of the blood to	
	the limb after applying immobilisation dressing	
F.U9.	treat external bleeding	P7S_UW
F.U10.	perform basic resuscitation using an automated external defibrillator and other	P7S_UW
	emergency procedures as well as first aid	
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	P7S_UW
	bleeding, contractile activity of the uterus)	



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F.U14.	interpret the results of physical examination of a pregnant woman (blood pressure,	P7S_UW
	maternal and foetal heart rate) and the results of laboratory tests indicative of	
	pathologies in pregnancy	
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	P7S_UW
	contraceptive methods	
F.U19.	carry out ophthalmic screening	P7S_UW
F.U20.	recognise ophthalmic conditions requiring immediate specialist assistance and	P7S_UW
	provide initial qualified assistance in cases of physical and chemical injury to the	
	eye	
F.U21.	assess the condition of an unconscious patient according to international rating	P7S_UW
	scales	_
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	P7S_UW
	aspiration	—
F.U24.	assist with typical urological procedures (diagnostic and therapeutic endoscopy of	P7S_UW
	the urinary tract, lithotripsy, prostate puncture)	
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	P7S_UW
0.01.	health problems of the population	175_0 **
G.U2.	collect information on the presence of risk factors for infectious and chronic	P7S_UW
5.02.	diseases and plan preventive actions at different levels of prevention	175_00
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	P7S_UW
0.04.	Republic of Poland and worldwide	F75_0 W
G.U5.	explain to recipients of medical services their basic entitlements and the legal basis	P7S_UW
0.05.	for providing these services	F75_0 W
G.U6.	prepare medical certificates for patients, their families and other parties	P7S_UW
<u>3.00.</u> G.U7.		
J.U7.	recognise, when examining a child, behaviours and symptoms that indicate the	P7S_UW
C 110	possibility that violence against the child may have occurred	D7C LIN
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	P7S_UW
	tests	l
	SOCIAL COMPETENCES (is ready to)	
K1.	establish and maintain deep and respectful contact with patients, as well as to show	P7S_KR
	understanding for differences in world-related outlooks and cultures	
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	P7S_KK
	awareness of social determinants and limitations resulting from the disease	
K5.	see and recognize one's own limitations and to self-assess educational deficits and	P7S_KK
	needs	
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	P7S_KR
	specialists, including representatives of other medical professions, including in a	
	multicultural and multinational environment	
K10.	formulate opinions on various aspects of professional activity	P7S_KR
K11.	take responsibility for decisions taken in the course of professional activity,	P7S_KR