



**Medical University of Warsaw
Faculty of Medicine - English Division
61 Żwirki i Wigury Street
02-091 Warsaw, Poland**

[http: // www.wum.edu.pl/](http://www.wum.edu.pl/)

5th YEAR CURRICULUM

6-year program

Warsaw, 2021/2022

AUTHORITIES OF MEDICAL UNIVERSITY OF WARSAW – TERM 2020-2024

Rector – Professor Zbigniew Gaciong, MD, PhD

Vice Rector for Student Affairs and Education – Professor Marek Kuch, MD, PhD

Vice Rector for Science and Technology Transfer – Professor Piotr Pruszczyk, MD, PhD

Vice Rector for Human Resources – Professor Agnieszka Cudnoch-Jedrzejewska, MD, PhD

Vice Rector for Clinical Affairs and Investments – Professor Wojciech Lisik, MD, PhD

Vice Rector for International Relations, Development and Promotion – Professor Paweł Włodarski, MD, PhD

FACULTY AUTHORITIES OF MEDICAL UNIVERSITY OF WARSAW – TERM: 2020-2024

Faculty of Medicine – Professor Rafał Krenke MD, PhD

English Division – Faculty of Medicine – Assoc. Prof. Jacek Sieńko, MD, PhD.

DEAN’S OFFICE

Head of the Dean’s Office – Magdalena Kawałczewska, MA

Student Administration Officer (1st, 2nd and 3rd -Year) – Aleksandra Chilecka

Student Administration Officer (4th, 5th, 6th -Year) – Justyna Szczepaniuk, MA

STUDENT’S GOVERNMENT REPRESENTATIVE:

President – Bartholomew Rzepa

Vice President – Jannush Nathan

Secretary – Mira Odeessa

Student Rights – Isabel Jaszewski

Treasurer – Chukwudum Igbokwe

Social Media – Olivia Gudziwski

Event Coordinator – Zoheir Boutaleb, Disha Keshwani

www: <https://edsgwum.wixsite.com/edsg>

CLASS REPRESENTATIVE:

Elwira Bukowiecka – 5 year

SCHEDULE – ACADEMIC YEAR 2021/2022

6-year program

WINTER SEMESTER – 01.10.2021 – 20.02.2022

STUDENT'S ACADEMIC CLASSES:	01.10.2021 – 19.12.2021
	03.01.2022 – 30.01.2022
WINTER HOLIDAYS:	20.12.2021 – 02.01.2022
EXAM SESSION:	31.01.2022 – 06.02.2022
DAYS OFF BETWEEN SEMESTER:	07.02.2022 – 13.02.2022
RETAKE EXAM SESSION:	14.02.2022 – 20.02.2022

SUMMER SEMESTER – 21.02.2022 – 30.09.2022

STUDENT'S ACADEMIC CLASSES:	21.02.2022 – 15.04.2022
	25.04.2022 – 12.06.2022
EASTER HOLIDAYS:	16.04.2022 – 24.04.2022
DAYS OFF BEFORE EXAM SESSION	13.06.2022 – 19.06.2022
EXAM SESSION:	20.06.2022 – 10.07.2022
SUMMER HOLIDAYS:	11.07.2022 – 28.08.2022
RETAKE EXAM SESSION:	29.08.2022 – 04.09.2022
SUMMER HOLIDAYS:	05.09.2022 – 30.09.2022

Curriculum of 5th year of 6-year 2021/2022 ED program and the list of contents

5th year 2021_2022 programme of study for ED 6-year pr

Page	subject	form of credit	semester	Total no of hours	including				ECTS
					lecture	seminar	class	practical	
5	Anesthesiology and Intensive Care	exam	1	60		20	40		3
13	Neurology	exam	1	100		30	70		5
19	Oncology	exam	1&2	60	20	20	20		3
25	Ortopedics i Traumatology	exam	1&2	60		20	40		3
31	Forensic Medicine with Elements of Law	exam	1&2	50		25	25		3
37	Ophtalmology	exam	1&2	50		10	40		2
42	Internal Medicine-Diabetology	credit	1&2	30	4	16	10		2
47	Internal Medicine-Endocrinology	credit	1&2	30	4	16	10		2
53	Internal Medicine-Nephrology	credit	1	30	4	16	10		2
58	Internal Medicine-Gastroenterology	credit	1&2	30	4	16	10		2
	Neurosurgery	credit	2	30		10	20		2
64	Pediatrics - nefrology	credit	1&2	30	5	10	15		2
69	Pediatrics - hematology & oncology	credit	1&2	30	5	10	15		2
74	Obstetrics and Gynecology + Endocrinology	credit	2	140		20	120		9
79	Surgery	credit	1&2	100		35	65		7
84	Protection of Intellectual Property	credit	2	2	2				0
88	Rehabilitation	credit	2	30		10	20		1
92	Transplantology	credit	2	40	6	19	15		2
98	Palliative Medicine	credit	1	18		18			1
103	Neonatology	credit	1&2	15		5	10		1
	Vocational Training	credit	2	140				140	4
	Optional course	credit	1&2	60		60			4
				1135	54	386	555	140	62



Anesthesiology and Intensive Care

1. IMPRINT

Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical science
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	Full time studies
Type of module / course <i>(obligatory / non-compulsory)</i>	Obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	Examination (test)
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	<p>---1st Department of Anesthesiology and Intensive Care (1MC1), Infant Jesus Teaching Hospital, Lindleya 4, 02-005 Warsaw www.anestezjologia1.wum.edu.pl 22 502 17 21</p> <p>--- 2nd Department of Anesthesiology and Intensive Care (1MC2), Public Central teaching hospital, Banacha 1a, 02-097 Warsaw, Poland kait.csk@uckwum.pl +48 22 599 20 01</p>

	---Department of Paediatric Anaesthesia (1MC3), Pediatric Teaching Clinical Hospital, 63a Żwirki i Wigury St., 022 317 98 61
Head of Educational Unit / Heads of Educational Units	dr hab. n. med. Janusz Trzebicki dr hab. n. med. Paweł Andruszkiewicz dr hab. n. med. Izabela Pągowska-Klimek
Course coordinator (title, First Name, Last Name, contact)	dr hab. n. med. Janusz Trzebicki janusz.trzebicki@wum.edu.pl
Person responsible for syllabus (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	Marek Janiak MD +48 22 502 17 21 marek.janiak@wum.edu.pl
Teachers	<p>1st Department of Anesthesiology and Intensive Care dr hab. n. med. Janusz Trzebicki, Beata Błaszczak MD PhD, Lidia Jureczko MD PhD, Marcin Kołacz MD PhD, Rafał Kowalczyk MD PhD, Paweł Zatorski MD PhD, Grzegorz Górniewski MD PhD, Agata Adamczyk MD, Jan Biławicz MD, Piotr Mieszczarski MD, Jan Pluta MD, Marek Janiak MD</p> <p>2nd Department of Anesthesiology and Intensive Care dr hab. n. med. Paweł Andruszkiewicz, Wojciech Romanik MD PhD, Marta Dec MD, Paula Dudek MD, Jarosław Gądomski MD, Maciej Michałowski MD, Michał Rykowski MD, Orest Stach MD, Aleksandra Święch-Zarzycka MD, Dawid Tomasik MD, Paulina Walczak-Wieteska MD, Łukasz Wróblewski MD, Mateusz Zawadka MD</p> <p>Pediatric Department of Anesthesiology and Intensive Care dr hab. n. med. Izabela Pągowska-Klimek, Janusz Ziółkowski MD PhD, dr n. med. Magdalena Mierzewska-Schmidt MD PhD, Artur Baranowski MD, Maciej Kaszyński MD, Katarzyna Mazur-Wołynko MD, Piotr Sawicki MD</p>

2. BASIC INFORMATION			
Year and semester of studies	V year, IX semester	Number of ECTS credits	3.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)			
Seminar (S)		20	0.6
Classes (C)		40	1.4
e-learning (e-L)			
Practical classes (PC)			

Work placement (WP)		
Unassisted student's work		
Preparation for classes and completions	30	1

3. COURSE OBJECTIVES	
O1	Knowledge and practical skills in advanced cardiopulmonary resuscitation based on most recent guidelines
O2	Knowledge and practical skills in recognition and management of life threatening conditions
O3	Knowledge of pain management in diverse clinical scenarios
O4	Knowledge of pre-operative management of a surgical patient
O5	Knowledge of fundamentals of general and regional anesthesia
O6	Understanding perioperative monitoring
O7	Understanding indications for intensive care treatment
O8	Understanding of futile therapy in intensive care
O9	Knowledge and practical skills in management of respiratory failure

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING <i>(concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)</i>	
Code and number of effect of learning in accordance with standards of learning <i>(in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Effects in time
Knowledge – Graduate* knows and understands:	
E.W6.	the most common life threatening conditions in children and the management of these conditions
E.W29.	principles of pain management, including in cancer and chronic pain
E.W41.	capabilities and limitations of laboratory testing in emergencies
F.W4.	principles of perioperative safety, patient preparation for surgery, general and local anesthesia and controlled sedation
F.W5.	post-operative treatment with analgesic therapy and postoperative monitoring

F.W6.	indications for and principles of use of intensive care
F.W7.	applicable recommendations concerning resuscitation of newborns, children and adults;
F.W15.	principles of suspecting and recognizing the brain death
C.W29.	definition and pathophysiology of shock, especially the differential diagnosis of shock and multiorgan failure
Skills– Graduate* is able to:	
E.U13.	assess and describe the patient’s somatic and psychological states
E.U16.	plan diagnostic, therapeutic and preventive treatment
E.U18.	propose the individualization of applicable therapeutic guidelines and alternative treatment in the case of ineffectiveness or contraindications to standard therapy
E.U21	recognize the conditions in which life expectancy, functional patient state or preferences limit the treatment according to the guidelines for a given disease
E.U24.	interpret laboratory test results with the identification of reasons for deviation
E.U25.	use feeding protocols (enteral and parenteral)
E.U29.	<p>perform the basic medical procedures, including:</p> <ol style="list-style-type: none"> 1) body temperature measurement, pulse count and non-invasive blood pressure check, 2) vital signs monitoring with the aid of a pulse oximeter and cardiac monitor, 3) spirometry, oxygen therapy, manual ventilation and basics of mechanical ventilation 4) oro- and nasopharyngeal airway device placement 5) intravenous, intramuscular, subcutaneous injections, intravenous cannulation, venous blood sampling, blood culture taking, arterial and capillary blood sampling, 6) nasal, pharyngeal and skin swab taking, 7) male and female urinary bladder catheterisation, nasogastric tube placement, stomach lavage, enema, 8) standard resting electrocardiogram with adequate interpretation, electrical cardioversion and defibrillation, 9) simple strip test and blood glucose check.
E.U32.	plan specialist consultations
E.U33.	initiate the basic management in acute poisoning
E.U34.	monitor the patient’s condition in acute chemical or medication poisoning
E.U37.	properly manage traumas (place a bandage, immobilize, manage and suture wounds)
E.U38.	keep a patient’s medical records.
F.U5.	place a venous access
F.U10.	perform basic life resuscitation with automated external defibrillation devices and other resuscitation measures, as well as first aid
F.U11.	perform resuscitation according to the latest advanced guidelines
F.U12.	monitor perioperative care with the aid of basic vital signs;

F.U21.	assess an unconscious patient according to the international point scales
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* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
D.W5.	rules and methods of communication with patients and their family that contribute to development of an empathic relationship, based on trust
D.W14.	rules of promotion of health, its objectives and main directions of operation, with a special focus on the awareness of healthy lifestyle
G.W11.	principles of the medical privilege, keeping medical documentation and penal, civil and professional liability of a medical doctor
Skills– Graduate is able to:	
D.U1.	include patient’s subjective needs and expectations resulting from the socio-cultural background in the entire therapeutic process
D.U5.	conduct an interview with an adult patient, a child and the family with empathy and listeni actively; is able to discuss the patient’s life situation
D.U13.	respect ethical standards in professional activities
D.U15.	observe patient’s rights
D.U16.	assume the responsibility for improving his/her qualifications and teaching other people
D.U17.	critically analyze the medical bibliography (also in English) and draw conclusions
Social Competencies – Graduate is ready for:	
SC1	Developing and maintaining a deep and respectful contact with a patient, demonstrating understanding of differences in belief and culture
SC2	Being guided by the pateints wellbeing, placing it firstline
SC3	Keeping doctor-patient confidentiality and patient’s rights
SC4	Making decisions for patients based on ethical principles, with the understanding of their social background and limitations resulting from the disease
SC5	Observing and identifying own limitations and assessing personal deficits and educational Leeds
SC6	Propagating health behaviours
SC7	Using objective sources of information
SC8	Formulating conclusions based on personal measurements and observations
SC9	Introducing rules of professional relations and teamwork among specialists, inclusive of representatives from other medical specialties, also in a multicultural and multinational environment

SC10	Formulating opinions regarding different aspects of professional activity
SC11	Taking responsibility for decisions made during professional activities, inclusive of self and others safety

6. CLASSES		
Form of class	Class contents	Effects of Learning
Lectures (e-learning) asynchronous		
S1	Preparation of a patient for surgery, anesthesia and controlled sedation	E.W41, F.W4, F.W5, E.U13, E.U16, E.U32, F.U12, D.W5, D.W14, D.U1, D.U5, D.U13, D.U14, D.U15, D.U16, D.U17, G.W11
S2	Safe use of local anesthetics and local anesthetic systemic toxicity (LAST) Regional anesthesia: peripheral nerve blocks	F.W4, E.U32
S3	Regional anesthesia: central nerve blocks	F.W4, E.U32
S4	Perioperative pain management	E.W29
S5	Principles of intensive care: indications. Futility of therapy.	F.W6, F.W15, E.U18, E.U21, E.U24, E.U25
S6	Respiratory failure and management	F.W6.
S7	Shock and sepsis: management. Cannulation.	C.W29.
S8	Management of life threatening conditions in children	E.W6
Practical classes		
C1	Advanced Life Support (ALS) SIMULATION CENTRE	F.W7.
C2	Management of life threatening conditions. Point of care ultrasonography in anesthesiology, intensive care and emergency states SIMULATION CENTRE	E.U29, E.U33, E.U34, E.U37, F.U5, F.U10, F.U11, F.U21
C5 C6 C7 C8	Practical classes in operating theatres	F.W4, F.U5
C9	Practical classes in the postoperative and recovery units	E.U38, F.U5, F.U12
C10	Practical classes in the intensive care unit	E.U38, E.U16, E.U24

7. LITERATURE
Obligatory
<ol style="list-style-type: none"> 1. European Resuscitation Council (ERC) 2021 Advanced Life Support (ALS) guidelines www.erc.edu 2. 2011 European Society of Anesthesiology and Intensive Care (ESAIC) perioperative fasting in adults and children https://journals.lww.com/ejanaesthesiology/Fulltext/2011/08000/Perioperative_fasting_in_adults_and_children_4.aspx 3. 2010 European Society of Anesthesiology and Intensive Care (ESAIC) regional anaesthesia and antithrombotic agents: recommendations https://journals.lww.com/ejanaesthesiology/Fulltext/2010/12000/Regional_anaesthesia_and_antithrombotic_agents_1.aspx 4. Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock: 2016

<https://pubmed.ncbi.nlm.nih.gov/28101605/>

5. Acute Respiratory Distress Syndrome: The Berlin Definition <https://jamanetwork.com/journals/jama/article-abstract/1160659>

6.

Supplementary

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
<i>e.g. G.K1, G.S1, K1</i>	<i>This field defines the methods used for grading students e.g. pop quiz, test, written report etc.</i>	<i>e.g. threshold number of points</i>
E.W6 E.W29 E.W41 F.W4 F.W5 F.W6 F.W7 F.W15 C.W29 E.U13 E.U16 E.U18 E.U21 E.U24 E.U25 E.U29 E.U32 E.U33 E.U34 E.U37 E.U38 F.U5 F.U10 F.U11 F.U12 F.U21 D.W5 D.W14 G.W11 D.U1 D.U5 D.U13 D.U14 D.U15 D.U16 D.U17 K1-4	Student presence card – activity and presence will be noted in the card during classes	Acquiring knowledge from lectures. Presence during classes and active participation confirmed by educator
E.W6 E.W29 E.W41 F.W4 F.W5 F.W6 F.W7 F.W15 C.W29 E.U13 E.U16 E.U18 E.U21 E.U24 E.U25 E.U29 E.U32 E.U33 E.U34 E.U37 E.U38 F.U5 F.U10 F.U11 F.U12 F.U21 D.W5 D.W14 G.W11 D.U1 D.U5 D.U13 D.U14 D.U15 D.U16 D.U17 K1-4	Practical assessment by assistant during cardiopulmonary resuscitation	Competence in advanced life support

9. ADDITIONAL INFORMATION (information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)

Students should bring footwear for theatre, white apron and stethoscope for clinical classes.

Punctuality is mandatory.

A student not prepared for practical classes may not be allowed to attend.

The seminars will be made available via the electronic platform www.e-learning.wum.edu.pl

Login details are the same as for the SSL-WUM platform

Identifier: (s0 + album number): s0XXXXX

Password: the same as for SSL-WUM

A student presence card is mandatory and must be collected at the secretariat in Lindleya. Presence during all classes must be noted in the student card and at the end of the classes must be brought back to the secretariat at Lindleya.

In case of absence during classes, it may be necessary to attend with a different group. All issues related to the absence must be reported to the Head of the given department or to the course coordinator, Marek Janiak.

Form of credit: written final test (20 questions) and practical skills assessment in ALS.

Grade	Criteria
2.0 (failed)	No ALS skills and/or <60% correct MCQ answers
3.0 (satisfactory)	61-68% correct MCQ answers
3.5 (rather good)	69-77% correct MCQ answers
4.0 (good)	78-85% correct MCQ answers
4.5 (more than good)	86-94% correct MCQ answers
5.0 (very good)	>95% correct MCQ answers

In case of failure in the final test: a second attempt test may be made available with the average result including the fail result. In case of a second failure, an oral examination will be conducted. The ALS skills will be assessed several times unless the instructor deems it a failure and thus a fail mark will be given.

Schedule of classes in Medical Simulation Center at 1a Banacha St.:

Gr 1: 10.01.2022 + 11.01.2022 at 08:00 - 14:00

Gr 2: 03.11.2021 + 04.11.2021 at 14:00 - 20:00

Gr 3: 08.12.2021 + 09.12.2021 at 08:00 - 14:00

Gr 4: 04.10.2021 + 05.10.2021 at 08:00 - 14:00



Neurology

1. IMPRINT	
Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline (in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)	Medical science
Study Profile (general academic / practical)	General academic
Level of studies (1 st level / 2 nd level / uniform MSc)	Uniform MSc
Form of studies	full-time studies
Type of module / course (obligatory / non-compulsory)	obligatory
Form of verification of learning outcomes (exam / completion)	exam
Educational Unit / Educational Units (and address / addresses of unit / units)	Department of Neurology, Medical University of Warsaw, Banacha Str. 1a , 02-097 Warsaw phone 22-659-75-05, fax 22-599-18-57, e-mail: neurosek@wum.edu.pl

Head of Educational Unit / Heads of Educational Units	Prof. Anna Kostera-Pruszczyk
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Prof. Dorota Dziewulska, dorota.dziewulska@wum.edu.pl
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	Prof. Dorota Dziewulska, dorota.dziewulska@wum.edu.pl
Teachers	<ol style="list-style-type: none"> 1. Prof. Anna Kostera-Pruszczyk 2. Dr Jacek Bojakowski 3. Prof. Dorota Dziewulska 4. Dr Antoni Ferens 5. Dr Anna Frączek 6. Dr. Aleksandra Golenia 7. Prof. Piotr Janik 8. Dr Biruta Kierdaszuk 9. Prof. Magdalena Kuźma-Kozakiewicz 10. Dr Marta Lipowska 11. Dr Anna Łusakowska 12. Dr Monika Nojszewska 13. Dr Andrzej Opuchlik 14. Dr Aleksandra Podlecka-Piętowska 15. Dr hab Anna Potulska-Chromik 16. Dr Piotr Szczudlik 17. Prof. Beata Zakrzewska-Pniewska

2. BASIC INFORMATION

Year and semester of studies	5 year, first (winter) semester		Number of ECTS credits	5.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation	
Contacting hours with academic teacher				
Lecture (L)				
Seminar (S)		30	1,5	
Classes (C)		70	3	
e-learning (e-L)				
Practical classes (PC)				
Work placement (WP)				

Unassisted student's work		
Preparation for classes and completions	15	0.5

3. COURSE OBJECTIVES	
O1	etiology and symptoms of neurologic diseases which they can deal with during their work as general practitioner (family doctor)
O2	diagnostic procedures and tests used in neurology and interpretation of their results
O3	management of the most common neurological diseases

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING <i>(concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)</i>	
Code and number of effect of learning in accordance with standards of learning <i>(in accordance with appendix to Regulation of Minister of Science and Higher education from 26th July 2019)</i>	Effects in time
Knowledge – Graduate* knows and understands:	
G.K1/ E.W1	environmental and epidemiological conditions of the most common diseases
G.K2/ E.W13	basic syndromes of neurological symptoms
G.K3/ E.W14	causes, symptoms, principles of diagnosis and therapeutic management in the most common diseases of the nervous system, including: 1) headaches: migraine, tension headache, headache syndromes and V nerve neuralgia, 2) cerebral vascular diseases, especially stroke, 3) epilepsy, 4) infections of the nervous system, in particular meningitis, Lyme disease, herpetic encephalitis, neurotransmission diseases, 5) dementia, in particular Alzheimer's disease, frontal dementia, vascular dementia and other dementia syndromes, 6) diseases of the basal ganglia, 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 injuries, in particular concussion;
G.K4/ E.W42	indications for the implementation of monitored therapy
Skills– Graduate* is able to:	
G.S1/ E.U1	conduct a medical interview with an adult patient;
G.S2/ E.U3	conduct a complete and targeted physical examination of an adult patient;
G.S3/E.U7	assess the general condition, state of consciousness and awareness of the patient;

G.S4/ E.U12	carry out differential diagnosis of the most common diseases of adults and children;
G.S5/ E.U14	recognize life-threatening states;
G.S6/ E.U15	recognize the condition after consuming alcohol, drugs and other stimulants;
G.S1/ E.U16	plan diagnostic, therapeutic and prophylactic procedures;
G.S7/ E.U20	qualify the patient for home and hospital treatment;
G.S8/ E.U21	identify conditions in which the life expectancy, functional state or patient preferences limit the management of the guidelines defined for the given disease
G.S9/ E.U24	interpret the results of laboratory tests and identify the causes of deviations from the norm
G.S10/ E.U30, 5	assist in the following medical procedures and procedures: a lumbar puncture

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
K1	
K2	
Skills– Graduate is able to:	
S1	
S2	
Social Competencies – Graduate is ready for:	
SC1	
SC2	

6. CLASSES		
Form of class	Class contents	Effects of Learning
SEMINARS	<p>They discuss the symptoms, diagnosis and treatment of the most common neurological diseases and syndromes.</p> <p>The topics of the seminars include:</p> <ol style="list-style-type: none"> 1. Anatomy and physiology of the Central and Peripheral Nervous System- repetition 2. Hemorrhagic stroke and subarachnoid hemorrhage 	G.K1, G.K2., G.K3, G.K4

	3. Ischemic stroke 4. Management of ischemic stroke 5. Motor neuron disease and other spinal cord diseases 6. Skeletal muscle diseases 7. Myasthenia and disorders of the neuromuscular junction 8. Peripheral neuropathies 9. Demyelinating diseases 10. Back pain - diagnosis and management 11. Vertigo- diagnosis and management 12. Headache - diagnosis and management 13. Neoplastic tumors of the nervous system 14. Epilepsy 15. Traumatic lesion of the nervous system 16. Movement disorders 17. Dementias 18. Neurological signs and symptoms in systemic diseases and general medicine 19. Brain death and neurocritical care	
Practical training	1. teaching physical neurological examination, 2. interpretation of diagnostic tests and algorithms of diagnostic procedure, 3. demonstration of patients with selected neurological diseases 4. demonstration of basic additional tests used in neurological diagnostics: Doppler ultrasound examination, neuroimages, EMG, EEG	G.S1, G.S2, G.S3, G.S4, G.S5, G.S6, G.S7, G.S8, G.S9, G.S10,

7. LITERATURE

Obligatory

Clinical Neurology" Aminoff M, Greenberg D, Simon R. edition 9, Mc Graw Hill Education 2015

Supplementary

1. "Neurology and Neurosurgery Illustrated" K.W.Lindsay, I.Bone. Churchill Livingstone 2010
2. Clinical neuroanatomy" R.S Snell, 7 edition. Lippincott Williams & Wilkins, a Wolters-Kluwer
3. „Meritt's Textbook of Neurology". L.P. Rowland ; Williams Wilkins 2005,
4. "Adam's and Victor's Principles of Neurology". A Ropper, R Brown; McGraw-Hill 2005
5. "Mosby's Color Atlas and Text of Neurology". Perkin DG; Times Mirrors Int. Publishers Ltd 1998

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
G.S2	Practical skills examination	Positive evaluation of the teaching assistant
G.K1, G.K2., G.K3, G.K4	Final colloquium (50 MCQ and open questions).	threshold number of points - 30 good answers
G.K1, G.K2., G.K3, G.K4 G.S1, G.S3, G.S4, G.S5, G.S6, G.S7, G.S8, G.S9, G.S10,	Final exam in winter exam session (100 MCQ)	threshold number of points - 56 good answers

9. ADDITIONAL INFORMATION (*information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club*)

- Duration of the neurology course: 3 weeks (from Monday to Friday)
- During the course it is possible to be absent only once
- If a student has two or three absences, he/she must make up for absences with another group. Only then, the student can take the colloquium, which he/she passes with another group.

SEMINARS

The seminars are conducted live by assistants. Seminar outlines and additional self-study materials are available on the e-learning platform.

PRACTICAL TRAINING

The first week of classes is devoted to teaching neurological examination and demonstrations of clinical cases. In the following weeks, students are divided into subgroups and examine patients under the supervision of designated assistants. In the last week of classes, a practical test of neurological examination skills is carried out.

PRELIMINARY TEST

The preliminary test takes place on the first day of the course. The test consists of 5 questions and covers the basic knowledge of the anatomy and physiology of the nervous system. The test questions are on the web site: neurologia1.wum.edu.pl

In the event of a negative result of the test, the student must take it again at the beginning of the second week of classes.

PRACTICAL SKILLS EXAMINATION

In the last week of the classes, students are checked for their practical skills in neurological examination

FINAL COLLOQUIUM

On the last day of the course students take the final colloquium consisting of 50 open and multiple choice questions. At least 30 correct answers are required to pass the test. The colloquium can be re-passed only twice. If the results of the repetitive tests are negative, the student must repeat the entire course of neurology.

To credit the neurology course, the student must be present at all classes (with the exception of 1 allowed absence) and have at least a satisfactory (3.0) grade with:

- preliminary test
- practical skills examination
- final colloquium



Oncology

1. IMPRINT

Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical science
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	full-time studies
Type of module / course <i>(obligatory / non-compulsory)</i>	obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	Exam
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	- Department of Oncology (2W11), Medical University of Warsaw 1a Banacha Str., 02-097 Warsaw phone 22-599 13 91, fax 22-599-13-90, e-mail: onkologia.csk@uckwum.pl

	- Department of Hematology, Oncology and Internal Medicine (1WP) , Medical University of Warsaw, 1a Banacha Str., 02-097 Warsaw phone 22-599 28 18, fax 22-599-14-18, e-mail: hematologia@wum.edu.pl
Head of Educational Unit / Heads of Educational Units	Prof. Rafał Stec, M.D, PhD (2W11) Prof. Grzegorz W. Basak, M.D., PhD(1WP)
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Leszek Kraj, M.D, PhD (2W11) , e-mail: leszek.kraj@wum.edu.pl
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	Leszek Kraj, M.D, PhD (2W11) , e-mail: leszek.kraj@wum.edu.pl
Teachers	Rafał Stec, M.D, PhD, Leszek Kraj M.D. PhD, , Leszek Kraj M.D. PhD, Rafał Machowicz M.D. Ph.D., Prof Wiesław Wiktor Jędrzejczak M.D, Ph.D, Anna Waszczuk M.D. Ph.D., Krzysztof Woźniak, M.D., Małgorzata Osmola M.D., Aleksandra Semeniuk-Wojtaś M.D., PhD., Maciej Gryziak M.D., Martyna Tyska, M.D.

2. BASIC INFORMATION				
Year and semester of studies	5 year, 9 & 10 semester		Number of ECTS credits	3.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation	
Contacting hours with academic teacher				
Lecture (L)		20	1.0	
Seminar (S)		20	1.0	
Classes (C)		20	1.0	
e-learning (e-L)				
Practical classes (PC)				
Work placement (WP)				
Unassisted student's work				
Preparation for classes and completions				

3. COURSE OBJECTIVES	
O1	Diagnostic tests in oncology

O2	Epidemiology of cancer
O3	Contemporary cancer therapy
O4	Palliative medicine
O5	Pain care in cancer therapy
O6	The most common cancers - principles of diagnostic and therapeutic procedures

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (*concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study*)

Code and number of effect of learning in accordance with standards of learning <i>(in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Effects in time
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Knowledge – Graduate* knows and understands:

E.W23	The student knows environmental and epidemiological conditions of the most common human cancers
E.W24	The student knows the basics of early detection of tumors and oncology screening principles
E.W25	The student knows the possibilities of contemporary cancer therapy (including multimodal therapy), perspectives of cell and gene therapies and their undesirable effects
E.W26.	The student knows the principles of combined therapies in oncology, algorithms of diagnostic and therapeutic procedures in the most common human cancers
E.W27.	The student knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in the most common problems of palliative medicine, including: a. symptomatic treatment of the most common somatic symptoms. b. Proceedings in tumor cachexia and in the prevention and treatment of pressure ulcers
E.W28	The student knows the rules of palliative treatment with the patient in the terminal state
E.W29	The student knows the principles of pain treatment, including cancer and chronic pain

Skills– Graduate* is able to:

E.U1	The student conducts a medical interview with an adult patient
E.U16	The student plans diagnostic, therapeutic and prophylactic procedures
E.U18	The student proposes to individualize the existing therapeutic guidelines and other methods of treatment for ineffectiveness or contraindications to standard therapy
E.U21	The student defines the states in which the duration of life, functional status or preferences of the patient limit the treatment in accordance with the guidelines laid down for a given disease

E.U24	The student interprets laboratory tests and identifies the causes of deviations
E.U30	The student assists in carrying out the following procedures and medical procedures: transfusion of blood and blood derivatives, drainage of the pleural cavity, puncture of the peritoneal cavity, lumbar puncture, fine needle biopsy
E.U31	The student interprets the pharmaceutical characteristics of medicinal products and critically assesses the advertising materials regarding medicines
E.U32	The student plans specialist consultations
E.U38	The student completes the patient's medical records

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
K1	
K2	
Skills– Graduate is able to:	
S1	
S2	
Social Competencies – Graduate is ready for:	
SC1	
SC2	

6. CLASSES		
Form of class	Class contents	Effects of Learning
LECTURES	Lectures (prof. W. Wiktor Jędrzejczak) 1. Epidemiology of cancer 2. Biology of cancer 3. Biology of cancer and therapeutic strategies 4. General diagnostic approach to cancer patient 5. General therapeutic approach to cancer patient 6. Cancer chemotherapy – basic principles. 7. Cancer chemotherapy – specific regimens. 8. Hormonotherapy and biotherapy of cancer	E.W23 E.W24 E.W25 E.W26 E.W27 E.W28 E.W29

	<p>9. Search for new cancer remedies and clinical trials.</p> <p>10. Patient with cancer: how to talk with him?</p> <p>Lectures take place in the Grucy Hall at 4 Lindley's St. at 14:00-15:30 – Mondays from October 25, 2021</p>	
SEMINARS	<p>SEMINARS and CLASSES</p> <p>Monday</p> <p>8:00- 8:15 Introduction to the Oncology</p> <p>8:15-9.45 Case studies: basic cancer signs. Interpretation of relevant laboratory and imaging tests useful in oncology</p> <p>10.00-11:00 Seminar: Cancer staging</p> <p>11:30-13.00 Rounds in oncology division. Preparation of cytostatic agents for administration.</p> <p>13.10-14:00 Oncology - concept of comprehensive care, future trends in care and therapy.</p> <p>Tuesday</p> <p>8.00-9.00 Clinical approach to principles of chemotherapy</p> <p>9:00–10:00 Case studies: Breast Cancer</p> <p>10.00 -10:45 Rounds in oncology division.</p> <p>11.00-12.00 Case studies: patients suffering from common cancers of the gastrointestinal tract: stomach, pancreas, colon and rectum</p> <p>12.30 – 14.00 Case studies: patients suffering from common cancers of the genitourinary system: kidney, bladder, prostate, testis</p> <p>Wednesday</p> <p>8.00-9.45 Rounds in oncology division.</p> <p>10.00 -10.45 Case studies: patients suffering from skin cancer including malignant melanoma.</p> <p>10:45-11:30 Case studies: patients suffering from lung cancer</p> <p>12.00 - 2.00 Seminar: Principles of radiotherapy Demonstration of typical cases treated primarily by radiotherapy. Demonstration of typical cases treated by radiotherapy in conjunction to chemotherapy.</p> <p>Thursday</p> <p>8.00-9.45 Rounds in oncology division.</p> <p>10.00–11.00 Case studies: patients suffering from breast cancer, ovarian cancer, cancers of the uterus</p> <p>11.30 –12:45 Supportive care in oncology</p> <p>13:00-14:00 Oncological emergencies</p> <p>Friday</p> <p>8.00 -9.30 Problems in palliative care and how to approach them</p> <p>9:30-10:30 Exercises on phantoms</p> <p>10:30–11:30 Case studies: Central nervous system tumors</p> <p>12.00-13.00 Patient suffering from cancer of the head and neck. Patient suffering from cancer of unknown primary site.</p>	<p>E.W23</p> <p>E.W24</p> <p>E.W25</p> <p>E.W26</p> <p>E.W27</p> <p>E.W28</p> <p>E.W29</p> <p>E.U1</p> <p>E.U3</p> <p>E.U7</p> <p>E.U12</p> <p>E.U14</p> <p>E.U16</p> <p>EU17</p> <p>E.U18</p> <p>E.U20</p> <p>E.U21</p> <p>E.U22</p> <p>E.U23</p> <p>E.U24</p> <p>E.U25</p> <p>E.U29</p> <p>E.U30</p> <p>E.U31</p> <p>E.U32</p> <p>E.U37</p> <p>E.U38</p>

	Due to the availability of room please check the schedule before the classes – leszekkraj@wum.edu.pl	

7. LITERATURE		
Obligatory		
Oxford Handbook of Oncology – Jim Cassidy et al, 4 th Edition		
Supplementary		
1.	“Harrison’s Principles of Internal Medicine - current edition	
2.	Cancer, De Vita, Helmann, Rosenberg 11-th Edition	

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
	Practical skills examination	Positive evaluation of the teaching assistant
	Final colloquium (30 MCQ test questions).	threshold number of points - 21 good answers
	Final exam in summer exam session (80 MCQ test questions)	3.0 (satisfactory) 60% points to pass 3.5 (rather good) Gauss curve 4.0 (good) Gauss curve 4.5 (more than good) Gauss curve 5.0 (very good) Gauss curve

9. ADDITIONAL INFORMATION (<i>information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club</i>)
5 th year- presence on 90% of practical classes and electronic test at the end of the classes– the test consists of 30 random questions. The students failing test can write it for the second time. In case of second failure oral retake takes place. If the oral retake fails – the course is failed and has to be repeated.



Orthopedics and Traumatology

1. IMPRINT	
Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline (in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)	Medical science
Study Profile (general academic / practical)	General academic
Level of studies (1 st level / 2 nd level / uniform MSc)	Uniform MSc
Form of studies	Full time studies
Type of module / course (obligatory / non-compulsory)	Obligatory
Form of verification of learning outcomes (exam / completion)	Exam
Educational Unit / Educational Units (and address / addresses of unit / units)	<p>1. Clinic of Orthopedics and Traumatology (1WE), Infant Jesus Teaching Hospital, 4 Lindlay'a St. 02-005 Warsaw, Poland Phone: 48 22 502 15 14; e-mail: klort@wum.edu.pl</p> <p>2. Department of Orthopaedics and Rehabilitation (2WG), Międzyzleski Szpital Specjalistyczny, 2 Bursztynowa St., 04-749 Warsaw, Poland (3rd floor, building "C") Phone: 48 22 473 52 18, e-mail: ortopedia@mssw.pl</p>
Head of Educational Unit / Heads of Educational Units	<p>1. Prof. dr hab. Paweł Małydyk</p> <p>2. Artur Stolarczyk Ph.D, M.D</p>

Course coordinator (title, First Name, Last Name, contact)	1. Dr Wojciech Żakiewicz 2. Paweł Kołodziejski Ph.D, M.D, M.Sc.
Person responsible for syllabus (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	1. Dr Wojciech Żakiewicz 2. Paweł Kołodziejski Ph.D, M.D, M.Sc.
Teachers	1. Dr Maciej Ambroziak, Dr Wojciech Żakiewicz, Dr Piotr Strzelczyk, Dr Bartosz Szostakowski, Dr Artur Leśkow, Dr Witold Sikorski 2. Paweł Kołodziejski Ph.D, M.D, M.Sc., Tomasz Mitek Ph.D , M.D., Olaf Szuba M.D., Małgorzata Jopowicz M.Sc, Kuba Radzimowski M.D., Bartosz Maciąg M.D.

2. BASIC INFORMATION			
Year and semester of studies	V year, 9 & 10 semester	Number of ECTS credits	3.0
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)			
Seminar (S)		20	1.5
Classes (C)		40	1.5
e-learning (e-L)			
Practical classes (PC)			
Work placement (WP)			
Unassisted student's work			
Preparation for classes and completions			

3. COURSE OBJECTIVES	
O1	Learning the principles of assessing, differential diagnosis and treatment of general orthopaedics, traumatic and non-traumatic disorders
O2	Learning the basics of an orthopedic physical examination
O3	Improve knowledge of the anatomy, physiology and pathophysiology of the musculoskeletal system

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)	
Code and number of effect of learning in accordance with standards of learning (in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)	Effects in time <div> <div>A.W1</div> <div>A.W2</div> <div>A.U3</div> <div>A.U4</div> <div>F.W1, pts 3&4</div> <div>F.W2</div> <div>F.W3</div> <div>F.W4</div> </div> <div> <div>F.W5</div> <div>F.W10</div> <div>F.W13 pt. 6</div> <div>E.U.23</div> <div>F.U.7</div> <div>F.U.8</div> </div>
Knowledge – Graduate* knows and understands:	
A.W1	appropriate Polish and English anatomical, histological and embryological terminology
A.W2	structure of the human body in the topographical approach (upper and lower limb, chest, abdomen, pelvis, back, neck, head) and the functional approach (skeletal system, muscular system, urinary system, reproductive system, nervous system and sensory system, integumentary system)
F.W.2	specific paediatric surgery, including traumatology, otolaryngology, acquired defects and diseases in children which require surgical treatment
F.W1, 3 &4	causes, symptoms, principles of diagnosis and therapeutic treatment in relation to the most common diseases requiring surgical intervention taking into account the distinctions of childhood, in particular: 3) limb and head diseases 4) bone fractures and organ injuries
F.W3	rules of qualification and performance, as well as the most common complications of basic surgical procedures and invasive diagnostic and therapeutic procedures
F.W4	principles of perioperative safety, patient preparation for surgery, general and local anaesthesia and controlled sedation
F.W5	post-operative treatment with analgesic therapy and postoperative monitoring
F.W10, 1, 2, 3	problems of contemporary imaging studies, in particular: 1) radiological symptomatology of basic diseases 2) instrumental methods and imaging techniques used to perform therapeutic procedures 3) indications, contraindications and preparation of patients for particular types of imaging examinations and contraindications to the use of contrast agents
F.W.13, 6	causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of the central nervous system in terms of: 6. diseases of the spine and spinal cord
Skills– Graduate* is able to:	
G.S1	Able to assess an x-ray with regards to the most typical fractures, especially long bones
A.U3	explain the anatomical background of the physical examination

A.U4	correlate the relationships between the anatomical structures on the basis of in vivo diagnostic studies, especially medical imaging (X-ray, contrast-enhanced studies, computed tomography, magnetic resonance imaging)
E.U23	propose a rehabilitation programme for the most common diseases
F.U7	assess the result of radiographic studies in terms of the most frequent kinds of fractures, especially long bone fractures
F.U8	immobilise a limb temporarily, choose the kind of immobilisation necessary to be applied in typical clinical cases and control the appropriate blood flow in the limb after an immobilising dressing is put on

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
G.W1	health assessment methods of an individual and a population, disease and medical procedure classification
	Understands the causes, typical symptoms, basis for diagnosis and treatment of the most common orthopedic conditions
	Understands basics and specifics of pediatric orthopedics, including trauma, congenital and acquired conditions which may require surgical treatment
Skills– Graduate is able to:	
S1	Student is able to carry out procedures following injuries (dressing or casting, cleaning and suturing a wound)
G.U7	recognise when examining a child the behaviours and symptoms suggesting that the child is a victim of violence
G.U3	interpret the incidence of diseases and disability
Social Competencies – Graduate is ready for:	
SC1	
SC2	

6. CLASSES		
Form of class	Class contents	Effects of Learning
Seminars in the the form of E-learning webinars on MS TEAMS with corresponding materials available on wum.edu.pl	<ul style="list-style-type: none"> - Musculoskeletal structure and function - Orthopedic examination - Osteoarthritis - Non articular/soft tissue disorders - Musculoskeletal infections - Developmental dysplasia of the hip - Congenital and developmental conditions - Osteoporosis 	A.W.1-2; F.W.1 pts 3 and 4; F.W.2 - 5; F.W 10; F.W.13 pt 6 A.U.3 A.U.4 E.U.23 F.U.7-8

	<ul style="list-style-type: none"> - Joint arthroplasty - Orthopedic oncology - Complications in orthopedics - Principles of fracture and healing - Fracture management - Upper limb injuries - Lower limb injuries - Knee joint injuries - Spinal injuries - Hand injuries - Principles of pediatric trauma - Shoulder conditions and injuries 	
Classes:	1 - Case presentations including bedside classes 2 - Emergency duty including basic plaster casting and immobilisation lessons	A.W.1-2; F.W.1 pts 3 and 4; F.W.2 - 5; F.W 10; F.W.13 pt 6 A.U.3 A.U.4 E.U.23 F.U.7-8

7. LITERATURE

Obligatory

"Current Diagnosis & Treatment in Orthopedics", H.B. Skinner, Lange, 2006

Supplementary

1. "Textbook of Orthopaedics", John Ebenezar, Anshan, 2006
2. "Blueprints Orthopedics" Grant Cooper, Blackwell Publishing, 2005
3. "Orthopaedics", Robert H. Fitzgerald, Mosby, 2002

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
e.g. G.K1, G.S1, K1	<i>This field defines the methods used for grading students e.g. pop quiz, test, written report etc.</i>	<i>e.g. threshold number of points</i>
	Completion of the entire e-learning course and attendance at all webinar classes. MCQ exam.	

9. ADDITIONAL INFORMATION (information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)

Classes/webinars/seminars will take place between 9:00 and 15:00 at the Clinic of Orthopedics an Traumatology Lindley'a 4 campus or web
 Missed classes/webinars/seminars will have to be completed with other group or need to be individually arranged with the coordinator.

Dep. 1WE classes:

Gr 1 – 4.04-15.04.2022

Gr 3 – 21.03-01.04.2022

Dep. 2WG classes:

Gr 2 – 13.12.2021-07.01.2022

Gr 4 – 25.04-06.05.2022



FORENSIC MEDICINE WITH ELEMENTS OF LAW

1. IMPRINT

Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical science
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	Full time studies
Type of module / course <i>(obligatory / non-compulsory)</i>	obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	exam
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Department of Forensic Medicine, Oczki 1 St., Warsaw 02-007, Poland phone 22 628-89-75; fax 22 628-89-75 ext. 33 www.medycynasadowa.wum.edu.pl e-mail: forensic@medycynasadowa.wum.edu.pl sekretariat@medycynasadowa.wum.edu.pl

Head of Educational Unit / Heads of Educational Units	prof. Paweł Krajewski, MD, PhD
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Mieszko Olczak, MD, PhD, mieszko.olczak@wum.edu.pl ; tel. 22 628-89-75 ext. 69
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	Mieszko Olczak, MD, PhD, mieszko.olczak@wum.edu.pl ;
Teachers	Marcin Fudalej MD PhD, marcin.fudalej@wum.edu.pl ; Agnieszka Dąbkowska, MD PhD, adabkowska@wum.edu.pl ; Mieszko Olczak, MD, PhD, mieszko.olczak@wum.edu.pl ;

2. BASIC INFORMATION				
Year and semester of studies	V year, IX and X semester		Number of ECTS credits	3.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation	
Contacting hours with academic teacher				
Lecture (L)				
Seminar (S)		25	1	
Classes (C)		25	1	
e-learning (e-L)				
Practical classes (PC)				
Work placement (WP)				
Unassisted student's work				
Preparation for classes and completions		50	1	

3. COURSE OBJECTIVES	
O1	Adaptation of medical knowledge for the purpose of law
O2	Understanding of death, thanatology, and goals for forensic autopsy.

O3	Understanding different mechanisms of natural and unnatural deaths.
O4	Forensic issues of traumatology.
O5	Forensic toxicology.
O6	Forensic genetics.
O7	Forensic aspects of interpersonal violence and child abuse.

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (*concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study*)

Code and number of effect of learning in accordance with standards of learning <i>(in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Effects in time
--	------------------------

Knowledge – Graduate* knows and understands:

G.W7	the legal obligations with regard to confirmation of death
G.W12	the definition of unnatural death and sudden death and the differences between trauma and injury
G.W13	the legal basis and rules of conduct of the doctor during the examination of the body on crime scene and forensic examination of the body
G.W14	rules of forensic medical diagnostics and giving opinions in cases concerning infanticide and reconstruction of the circumstances of a road accident
G.W15, G.W37	the rules of forming up opinions as an witness expert in criminal cases
G.W16	the rules of forensic medical opinions regarding the ability to participate in procedural activities, biological effect of trauma and health loss
G.W18	the rules of collecting material for toxicological and hemogenetic research
G.W33	the rules and obligations applied to human cadavers
G.W35	issues related to serology and forensic genetics
G.W36	basics of forensic toxicology

Skills– Graduate* is able to:

G.U7	to recognize the behavior and symptoms indicating the possibility of violence against a child
G.U9	collect blood for toxicological tests and material for genetic test
G.U28	evaluate postmortem changes
G.U30	asses the effects of facial and skull injuries in terms of criminal and civil proceedings

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
K1	
K2	
Skills– Graduate is able to:	
S1	
S2	
Social Competencies – Graduate is ready for:	
SC1	
SC2	

6. CLASSES		
Form of class	Class contents	Effects of Learning
Seminar	Introduction to Forensic Medicine. Educational contents: confirmation of death, medico-legal thanatology, post-mortem changes, forensic and hospital autopsy, procedures applied to bodies found at crime scene	G.W 7; G.W 12; G.W 13; G.W 15; G.W 33; G.W 37;
Seminar	Sudden natural death. Educational contents: sudden natural death due to different diseases, autopsy manifestations of different chronic diseases.	G.W 7; G.W 12; G.W15, G.W16; G.W 33; G.W 37;
Seminar	Asphyxia. Educational contents: mechanism of death, different types of asphyxia, autopsy findings in cases of asphyxia	G.W 33; G.W 37;
Seminar	Traumatology. Educational contents: different types of trauma and injuries (blunt force trauma, sharp force trauma, gunshot injuries, death in fire, electrocution, hypothermia)	G.W 16; G.W 33; G.W 37;

Seminar	Traffic injuries. Educational contents: traffic injuries, injuries of various types of road participants (pedestrians, car occupants, car drivers, bicyclists, motorcyclists).	G.W 14; G.W 33;
Seminar	Forensic toxicology. Educational contents: different types of toxins, toxicological examination in forensic medicine, autopsy findings in different types of fatal poisoning	G.W 16; G.W 36;
Seminar	Forensic genetics. Educational contents: basics of forensic genetics.	G.W 37;
Seminar	Child and sexual abuse. Educational contents: injuries indicating child abuse, examination of a rape victim.	G.W 7; G.W 9; G.W 16; G.W 35; G.U 7; G.U 9;
Seminar	Human identification. Educational contents: methods used for an identification of a person of unknown identity, examination of a body remains.	G.W 9; G.W 28; G.W 16; G.W 35;
Classes	Medico-legal autopsy of the dead	G.U 9; G.U 28; G.W 37;
Classes	Medico-legal autopsy of the dead	G.U 9; G.U 28; G.W 37;
Classes	Medico-legal autopsy of the dead	G.U 9; G.U 28; G.W 37;
Classes	Medico-legal autopsy of the dead	G.U 9; G.U 28; G.W 37;
Classes	Medico-legal autopsy of the dead	G.U 9; G.U 28; G.W 37;
Classes	Medico-legal autopsy of traumatic death.	G.U 28; G.U 30; G.W 16; G.W 37;
Classes	Medico-legal autopsy of traumatic death.	G.U 28; G.U 30; G.W 16; G.W 37;
Classes	Medico-legal autopsy of an unidentified body.	G.U 9; G.U 28; G.W 37;
Classes	Medico-legal examination of human body remains (determining the number of individuals, sex, age, stature, body weight, signs of trauma), forming opinion about cause of death.	G.U 9; G.U 28; G.W 16; G.W 35; G.W 37;

7. LITERATURE
Obligatory
<ol style="list-style-type: none"> 1. Handbook of Forensic Pathology V.J.M. DiMaio, S. E. Dana Taylor and Francis Group 2007. 2. Simpson's Forensic Medicine R. Shepherd, Arnold 2003
Supplementary
<ol style="list-style-type: none"> 1. Encyclopedia of Forensic Sciences J.A.Siegel, P.J. Saukko, 2013 Academic Press 2. Forensic Analysis of the skull M.Y.Iscan, R.P. Helmer, Wiley-Liss

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion

G.W7; G.W12; G.W13; G.W14; G.W15, G.W16; G.W18; G.W33; G.W35; G.W36; G.W37;	Continuous assessment in the classroom - on seminars and practical classes, written reports, discussion.	Active participation in the class, 100% attendance (a maximum 2 day of absences during the course could be accepted, however absence on the seminars must be covered by writing an essay covering the topic of a seminar, and absence on autopsies (practical classes) - by assisting in additional autopsy after a regular teaching hours. Positive result of the MCQ test.
		<p>Assessment:</p> <p>2.0 (failed) - Final test result less than 66%. More than two day of absences during the course, no active participation in seminar classes or classes, lack of basic knowledge in the field of thanatology, opinions and toxicological and genetic diagnostics in forensic medicine.</p> <p>3.0 (satisf.) - Final test result 66.01-74%. The condition of completing the course is attendance at all classes, participation in exercises and seminars and demonstrating skills in the medical and forensic issues covered by the curriculum at the basic level.</p> <p>3.5 (more than satisf.) - Final test result 74.01-80%. The condition for obtaining the grade is attendance at all classes, participation in exercises and seminars, and demonstrating skills in medical and forensic issues covered by the curriculum at a level above elementary.</p> <p>4.0 (good) - Final test result 80.01-88%. Active participation in exercises and seminars and demonstrating the skills of practical application of knowledge in forensic and medical opinions.</p> <p>4.5 (more than good) - Final test result 88.01-94%. Active participation in exercises and seminars as well as skills in the practical application of knowledge in forensic medical opinions in high level.</p> <p>5.0 (very good) - Final test result 94.01-100%. Active participation in exercises and seminars and demonstrating the skills of practical application of knowledge in forensic and medical opinion in very high level.</p>

9. ADDITIONAL INFORMATION (*information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club*)

1. All classes are held in Forensic Medicine Department facility at Ociski 1 St. in Warsaw.
2. Classes start at 8:30.
3. White coats for practical classes are provided by the Department, street shoes are accepted.
4. The use of mobile phones or other recording devices during forensic class **is strictly prohibited**.
5. A student can miss maximum two days of the course, however absence on each lecture **must be covered** by writing an essay covering the topic of a lecture, and absence on autopsy – by assisting in additional autopsy after regular teaching hours. Students can get credit and proceed to the final exam only after completing all Department's requirements.
6. If student's absences exceed limitations listed above, he/she is required to take a complete course with another group.
7. Examination grades are final, and we do not allow positive ratings to be improved.
8. Any comments or complaints regarding the final test are considered up to 5 working days after publishing the exam results – a visit to the teacher must be arranged before.
9. In case of failed exam the retake is an oral exam.



OPHTHALMOLOGY

1. IMPRINT

Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical science
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	Full time studies
Type of module / course <i>(obligatory / non-compulsory)</i>	Obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	Exam
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Department of Ophthalmology Marszałkowska 24/26 Str, 00-576 Warsaw tel. (+48 22) 511 63 77; e-mail: klinika@spkso.waw.pl

Head of Educational Unit / Heads of Educational Units	Professor Jacek P. Szaflik MD, PhD
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Anna Kurowska, MD, PhD e-mail: anna.kkurowska@gmail.com
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	Anna Kurowska, MD, PhD e-mail: anna.kkurowska@gmail.com
Teachers	Professor Jacek P. Szaflik MD, PhD, FEBO Ewa Langwińska MD, PhD Justyna Izdebska MD, PhD Anna Zaleska-Żmijewska MD, PhD Anna Kurowska, MD, PhD Monika Udziela, MD, PhD Joanna Przybek-Skrzypecka MD, PhD, FEBO Magdalena Korwin, MD

2. BASIC INFORMATION

Year and semester of studies	V year, winter and summer semester	Number of ECTS credits	2.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		0	
Seminar (S)		10	0,4
Classes (C)		40	1,6
e-learning (e-L)		0	
Practical classes (PC)		0	
Work placement (WP)		0	
Unassisted student's work			
Preparation for classes and completions		20	

3. COURSE OBJECTIVES

O1	Gaining knowledge about pathophysiology, symptoms and signs, diagnostic tools and treatment methods for the most common eye disorders
O2	Acquiring the ability to perform basic ophthalmologic examinations, diagnosing acute ophthalmological disorders, eye injuries
O3	Providing immediate first ophthalmological aid

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (*concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study*)

Code and number of effect of learning in accordance with standards of learning (in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)	Effects in time
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Knowledge – Graduate* knows and understands:

F.W11	1) treatment methods of the most common eye disorders, ophthalmological complications of systemic diseases with their ophthalmological symptomatology and proper procedures to be used in such cases, 2) ophthalmological complications of systemic diseases with their ophthalmological symptomatology and proper procedures to be used in such cases; 3) surgical treatment methods of common eye diseases, 4) basic groups of medicines used in ophthalmology, their adverse effects and interactions, 5) groups of medicines for general use causing complications, as well as ophthalmological counterindications and the respective mechanism;
F.W3	rules of qualification and performance, as well as the most common complications of basic surgical procedures and invasive diagnostic and therapeutic procedures;
F.W10 p.3	problems of contemporary imaging studies, in particular: indications, contraindications and preparation of patients for particular types of imaging examinations and contraindications to the use of contrast agents;
F.W13 p.3	causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of the central nervous system in terms of: cranial-cerebral injuries,
F.W14	basic issues related to transplantology, indications for the transplantation of permanently impaired organs and tissues, as well as the related procedures;

Skills– Graduate* is able to:

F.U19	perform ophthalmic screening tests;
F.U20	recognise ophthalmic conditions that require an immediate specialist aid and provide initial, qualified aid in the case of physical and chemical eye injuries;
F.U3	observe the rules of asepsis and antisepsis;

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (*non-compulsory*)

Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
K1	
K2	
Skills– Graduate is able to:	
S1	
S2	
Social Competencies – Graduate is ready for:	
SC1	
SC2	

6. CLASSES		
Form of class	Class contents	Effects of learning
Seminars	S1 - Introduction to ophthalmology. Principles of optics	F.W11
	S2 - Diseases of conjunctiva and cornea	F.W11, F.W3
	S3 – Diseases of the ocular adnexae and the anterior segment disorders: eyelids, dry eye syndrome, cataract	F.W11, F.W3
	S4 – Diseases of the retina and vitreous. Diseases of uveal tract	F.W11, F.W3, F.W10 p3
	S5 – Ocular surgery	F.W11, F.W3, F.W14
	S6 – Glaucoma- diagnosis and treatment	F.W11, F.W3
	S7 – Ocular injuries. Emergency in ophthalmology	F.W11, F.W3, F.W13 p.3
	S8 – Neuroophthalmology. Strabismus.	F.W11, F.W10 p.3
	S9 – Ocular manifestations of systemic diseases	F.W11
Practical classes	C1-C9: students learn how to take an ophthalmology history; perform visual and ophthalmological examinations, including visual acuity, color vision, comparative visual field, autoceratorefractometer, slit lamp examination, eye motility, pupillary reflexes, macular and optic disc optical coherence (OCT) test, anterior segment OCT; and ophthalmic first aid procedures: removal of a foreign body from the conjunctival sac, irrigation of the conjunctival sac, application of eye drops, ointments and bandages	F.U20 F.U19 F.U3 F.W11 F.W3 F.W10 F.W14 F.W13

7. LITERATURE
Obligatory
1. Materials from the seminars (available on-line at the Medical University of Warsaw e-learning platform)
Supplementary
1. „Ophthalmology at a Glance” Jane Olver, Lorraine Cassidy, ISBN: 978-0-632-06473-1, May 2005, ©2005, Wiley-Blackwell 2. Clinical Ophthalmology” by Jack J. Kanski, and Brad Bowling

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
F.W11 F.W3 F.W10 p.3) F.W13 p.3) F.W14	Final exam – 50 single choice questions on e-learning platform on the last day of the course	threshold number of points: 0-59% - 2 60-70% - 3 71-76% - 3,5 77-83% - 4,0 84-89% - 4,5 90-100% - 5,0
F.U19, F.U20, F.U3,	Practical skills examination	Positive evaluation of the teaching assistant
F.W11 F.W3 F.W10 p.3) F.W13 p.3) F.W14 F.U19, F.U20, F.U3,	Quiz and test available on-line at the Medical University of Warsaw e-learning platform	complete activity on e-learning platform

9. ADDITIONAL INFORMATION (<i>information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club</i>)
<p>Seminars are available on-line at the Medical University of Warsaw e-learning platform. Students need to read/listen to the seminars prior to the stationary classes begin.</p> <p>Seminars starts at 9.00 am</p> <p>Practical classes start at 10.00 a.m. Marszałkowska 24/26 Str, IVth floor, room 4.43</p> <p>Medical apron, facial mask and footwear change are required during practical classes</p> <p>Only one absence is acceptable. More absences have to be worked off with a different group</p>



Internal Medicine- Diabetology

1. IMPRINT

Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline (in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)	Medical science
Study Profile (general academic / practical)	General academic
Level of studies (1 st level / 2 nd level / uniform MSc)	Uniform MSc
Form of studies	Full time studies
Type of module / course (obligatory / non-compulsory)	Obligatory
Form of verification of learning outcomes (exam / completion)	completion
Educational Unit / Educational Units (and address / addresses of unit / units)	Department of Internal Medicine, Endocrinology and Diabetology ; Mazovian Brodnowski Hospital, Kondratowicza 8, 03-242 Warsaw
Head of Educational Unit / Heads of Educational Units	Przemysław Witek, MD, PhD

Course coordinator (title, First Name, Last Name, contact)	Małgorzata Sikora-Polak, MD małgorzata.sikora-polak@wum.edu.pl
Person responsible for syllabus (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	Małgorzata Sikora-Polak, MD małgorzata.sikora-polak@wum.edu.pl
Teachers	Przemysław Witek, MD, PhD Marek Kowrach, MD, PhD Paweł Kuca, MD, PhD Roman Kuczerowski, MD, PhD Olga Gajek-Daszczyńska, MD Joanna Kuczerowska, MD Agnieszka Maksymiuk-Kłós, MD Anna Mehlich, MD Justyna Nowak, MD Małgorzata Sikora-Polak, MD Joanna Sobolewska, MD Aleksandra Stasiewicz, MD Katarzyna Wolder, MD Zuzanna Żak, MD

2. BASIC INFORMATION

Year and semester of studies	V, classes - winter/springsemester Lectures – spring semester	Number of ECTS credits	2.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)			
Seminar (S)		10	0.5
Classes (C)		10	0.5
e-learning (e-L)			
Practical classes (PC)			
Work placement (WP)			
Unassisted student's work			
Student's preparation for classes		15	0.5
Preparation for obtaining credits		15	0.5

3. COURSE OBJECTIVES

O1	Improve the skills of history taking and proper physical examination.
O2	Ability to conduct differential diagnosis and to use proper diagnostic path in diabetology
O3	Ability to recognize and treat life-threatening conditions in diabetology Ability to treat and monitor treatment of common types of diabetes

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (*concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study*)

Code and number of effect of learning in accordance with standards of learning

(in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)

E.W1, E.W7, E.W40, E.W41, E.U1, E.U3, E.U7, E.U12, E.U13, E.U14, E.U16, E.U18, E.U24, E.U38

Knowledge – Graduate* knows and understands:

G.K1	knows and understands principles of history taking and physical examination (E.W7)
G.K2	knows and understands the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common internal diseases occurring in adults and their complications: neuropathy, nephropathy, retinopathy, cardiovascular diseases (E.W1, E.W7)
G.K3	knows and understands interpretation of laboratory values and others basic tests (E.W7, E.W40, E.W41)

Skills– Graduate* is able to:

G.S1	Takes history and perform physical examination of patients with diabetes (E.U1, E.U3, E.U7, E.U13)
G.S2	interpret laboratory tests and imaging tests in diabetes (E.U24)
G.S3	provide differential diagnosis of particular symptoms including metabolic disorders (E.U12)
G.S4	plan diagnostic procedures and treatment in common type of diabetes (E.U16)
G.S5	prepare and analyse clinical cases (E.U13, E.U38)
G.S6	recognize, diagnose and treat life-threatening conditions in diabetology (E.U14)
G.S7	present a patient case to other doctor, consult relevant abnormalities in laboratory and imaging tests (E.U13, E.U14, E.U16, E.U18)

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (*non-compulsory*)

Number of effect of learning

Effects of learning i time

Knowledge – Graduate knows and understands:

K1	
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K2	
Skills– Graduate is able to:	
S1	
S2	
Social Competencies – Graduate is ready for:	
SC1	
SC2	

6. CLASSES		
Form of class	Class contents	Effects of Learning
bedside classes	<p>Training of practical issues connected with making history, signs and symptoms assessment as well as diagnosis and treatment.</p> <p>Effects of Learning: E.U1, E.U3, E.U7, E.U12, E.U13, E.U14, E.U16, E.U24, E.U38</p>	
Lectures	<p>Lectures:</p> <ol style="list-style-type: none"> 1. Clinical cases of acute complications in diabetes. 2. Clinical cases of retinopathy, nephropathy and neuropathy. 3. Clinical examples of diabetic foot. 4. Clinical cases of diabetes in pregnancy. <p>Effects of Learning: E.W1, E.W7, E.W40, E.W41, E.U13, E.U14, E.U16, E.U18</p>	
seminars	<p>S1-Pathophysiological basis for glucose metabolism disorders classifications. Metabolic syndrome.</p> <p>S2- Diabetes type 2 and type 1-differences in pathophysiology.</p> <p>S3- Diet and physical activity in diabetes.</p> <p>S4- Goals of treatment for patient with diabetes</p> <p>S5- Insulin in the treatment for patients with diabetes : algorithms, insulin pumps</p> <p>S6- Hypoglycemic agents in the treatment of diabetes with introduction to new drugs.</p> <p>S7- Acute complications of diabetes .</p> <p>S8 -Chronic complications of diabetes –retinopathy and nephropathy.</p> <p>S9 -Chronic complications of diabetes – neuropathy and diabetic foot .</p> <p>S10-Cardiovascular diseases in diabetes .</p> <p>S11. Diabetes in specific situations: hospitalization, diabetes in pregnancy, elderly.</p> <p>12. Common endocrinopathies in diabetology</p> <p>Effects of Learning: E.W1, E.W7, E.W40, E.W41</p>	
7. LITERATURE		
Obligatory		
<ol style="list-style-type: none"> 1. Kumar and Clark's Clinical Medicine , 8e/9e (Kumar, Kumar and Clark's Clinical Medicine) by Parven Kumar 2. Harrison's Internal Medicine 20 th edition 		

Supplementary

1. International Textbook of Diabetes Mellitus , 2 Volume Set 4 th edition by R.A. DeFronzo (Editor) , e.Ferrannini (Editor), George Alberti (Editor) 2015

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
G.S1, G.S2, G.S3, G.S4, G.S6	Active participation in all seminars and classes.	Obligatory attendance and active participation in all seminars and classes.
G.S5, G.S7	Preparing a power-point presentations.	Presentation of case report.
G.K1, G.K2, G.K3	Execution of assigned tasks on the e-learning platform.	Execution of assigned tasks on the e-learning platform.
G.K1, G.K2, G.K3	Test at the end of the course .	3.0 (satisfactory).

EVALUATION CRITERIA

Form of receiving credit in a subject

Grade	criteria
2.0 (failed)	<60% in SCT
3.0 (satisfactory)	<60-69% in SCT
3.5 (rather good)	70-75% in SCT
4.0 good	76-85% in SCT
4.5 more than good	86-89% in SCT
5.0 very good	>90% in SCT

9. ADDITIONAL INFORMATION (*information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club*)

At the first day of the course we meet at the entrance of the clinic (The Department of Endocrinology, Diabetology and Internal Medicine – Kondratowicza Street 8, building C, 7th floor) at 8:00 a.m. Then we present the detailed schedule of classes. Some seminars and classes may be conducted as e-learning, depending on epidemiological situation. From Tuesday students present case reports indicated by the teacher.



Gastroenterology and Internal Medicine

1. IMPRINT

Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	<i>Medicine</i>
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical Science
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	Full-time studies
Type of module / course <i>(obligatory / non-compulsory)</i>	Obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	Credit
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Department of Gastroenterology and Internal Medicine (1WZ) Chair and Department of Gastroenterology and Internal Diseases SP CSK, 1A Banacha St., 02-097 Warsaw tel (+48 22) 599 28 38, fax (+48 22) 599 18 38, e-mail: klingast@wum.edu.pl Seminars - Block D, Ground Floor, Room no 23, at 8.00 every day. (or MS Teams) Practical Classes - at the Department, Block D, 3rd Floor. (or MS Teams)

Head of Educational Unit / Heads of Educational Units	Dr hab. n. med Adam Przybyłkowski
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Lek. Marta Żalikowska – Gardocka, e-mail: marta.zalikowska-gardocka@wum.edu.pl
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	Lek. Marta Żalikowska – Gardocka, e-mail: marta.zalikowska-gardocka@wum.edu.pl
Teachers	Dr n. med. Jowita Szeligowska Dr n. med. Piotr Nehring Dr. n. med. Bartłomiej Ziółkowski Lek. Marta Żalikowska - Gardocka Lek. Miłosz Jastrzębski Lek. Krzysztof Hadrian Lek. Piotr Pętlicki Lek. Anna Mackiewicz Lek. Agnieszka Pęczyła Lek. Karolina Szymańska Lek. Paweł Podgórski Lek. Konrad Sosnowski

2. BASIC INFORMATION

Year and semester of studies	5th year, 7 th and 8 th semester	Number of ECTS credits	2.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		4 (4 e-learning)	0,133
Seminar (S)		16 (16 e-learning)	0,534
Classes (C)		10	0,333
e-learning (e-L)			
Practical classes (PC)			
Work placement (WP)			
Unassisted student's work			
Preparation for classes and completions		30	1,00

3. COURSE OBJECTIVES	
O1	The goal of the program is to acquaint students with the prevention diagnosis and treatment of the basic problems in gastroenterology.
O2	During this program all students have e-learning seminars and case studies/practical classes (depending on epidemiological situation in Poland)
O3	If practical classes are held on the premises of the Department each group has an opportunity to take medical history, examine a patient and discuss all diagnostic tests (biochemical, imaging and endoscopic) with patient's physician. Also, all students have dedicated classes for the observation and participation during various diagnostic and therapeutic endoscopic procedures e.g. gastroscopy, ERCP, colonoscopy, sigmoidoscopy.

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)	
Code and number of effect of learning in accordance with standards of learning (in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)	E. W7.3, 9, 10; E. W23; E. W24; E. W28, E. U1; E. U3, E. U7; E.U13; E.U18; E.U21.; E.U24 ;E.U30; E. U32

Knowledge – Graduate* knows and understands:

EW7 pkt. 3, 9 E.W23.E.W24.; E.W 28	Knows and understands the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common internal diseases occurring in adults and their complications; digestive system diseases including diseases of the oral cavity, oesophagus, stomach and duodenum, intestine, pancreas, biliary tract and gallbladder
E.W10; E.W23.E.W24.; E.W 28	Knows and understands the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common internal diseases occurring in adults and their complications: liver.

Skills– Graduate* is able to:

E. U1; E. U3, E. U7; E.U30. 4	Assists in carrying out the following procedures and medical treatments: puncturing the peritoneal cavity
E.U13E.U18; E.U21.; E.U24., E. U32	Has the ability to recognize and differentiate the common gastrointestinal diseases in adults. Has the ability to order the proper diagnostic tests and treatment.

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)	
Number of effect of learning	Effects of learning in time

Knowledge – Graduate knows and understands:

K1EW7 pkt. 3, 9 E.W23.E.W24.; E.W 28	Knows and understands the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common internal diseases occurring in adults and their complications; digestive system diseases including diseases of the oral cavity, oesophagus, stomach and duodenum, intestine, pancreas, biliary tract and gallbladder
E.W10; E.W23.E.W24.; E.W 28	Knows and understands the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common internal diseases occurring in adults and their complications: liver.

Skills– Graduate is able to:

E. U1; E. U3, E. U7; E.U30. 4	Assists in carrying out the following procedures and medical treatments: puncturing the peritoneal cavity
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Social Competencies – Graduate is ready for:

E.U13E.U18; E.U21.; E.U24., E. U32	Has the ability to recognize and differentiate the common gastrointestinal diseases in adults. Has the ability to order the proper diagnostic tests and treatment.
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6. CLASSES

Form of class	Class contents	Effects of Learning
Lecture	<i>W1- Peptic ulcer disease, gastritis and stomach cancer - K-1, C-1</i>	E. W7.3; E. W23; E. W24; E. W28,
Lecture	<i>W2- Inflammatory bowel diseases- - K-1, C-1</i>	
Seminar	<i>C1-5-Practical bedside classes with appointed teacher K-1, K-2, S-1, C-1</i>	
Seminar	<i>S2- GI Bleeding K-1, C-1</i>	
Seminar	<i>S3 - Diagnostic Approach in Gastroenterology K-1, C-1</i>	
Seminar	<i>S4 - Diverticular Disease K-1, C-1</i>	
Seminar	<i>S5- Seminar 5 - Diseases of the Oesophagus and GERD K-1, C-1</i>	
Seminar	<i>S6- Diseases of the Gallbladder and Bile Duct K-1, C-1</i>	
Seminar	<i>S7 - Functional Disorders of GI Tract K-1, C-1</i>	
Seminar	<i>S8 - Diarrhea and Malnutrition K-1, C-1</i>	
Seminar	<i>S9 - Acute Pancreatitis K-1, C-1</i>	
Seminar	<i>S10 - Chronic Pancreatitis K-1, C-1</i>	
Seminar	<i>S11 - Colorectal Cancer K-1, C-1</i>	

Seminar	<i>S12 - Acute Hepatitis K-2, C-1</i>	
Seminar	<i>S13 - Alcoholic Liver Disease K-2, C-1</i>	
Seminar	<i>S14 - Cirrhosis and Its Complications, Liver Transplantation K-2, C-1</i>	
Seminar	<i>S15 - Liver Cancer K-2, C-1</i>	
Practical Classes/Online Case studies	<i>C1-5-Practical bedside classes with appointed teacher K-1, K-2, S-1, C-1</i>	E. U1; E. U3, E.U7; E.U30. 4 E.U13E.U18; E.U21.; E.U24., E. U32

7. LITERATURE
Obligatory
Harrison's Principles of Internal Medicine 20th Edition, Chapters on Gastroenterology and Diabetes
Supplementary
Harrison's Gastroenterology and Hepatology 3rd by Dan L. Longo, Anthony S. Fauci.

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
	<i>This field defines the methods used for grading students e.g. pop quiz, test, written report etc.</i>	<i>e.g. threshold number of points</i>
E. U1; E. U3, E.U7; E.U30. 4 E.U13E.U18; E.U21.; E.U24., E. U32	Active participation in all seminars and classes.	Obligatory attendance and active participation in all seminars and classes.
EW7 pkt. 3, 9 E.W23.E.W24.; E.W 28; E.W10; E.W23.E.W24.; E.W 28	Online single choice test (MS Forms) Test will be assigned during the classes. Due date will be before the end of classes for each group.	60% in SCT

9. ADDITIONAL INFORMATION (information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)

Department of Gastroenterology and Internal Medicine website:

www.gastroenterologia.wum.edu.pl

Venue:

Chair and Department of Gastroenterology and Internal Diseases

SP CSK, 1A Banacha St.,

Seminars - Block D, Ground Floor, Room no 23, at 8.00 every day. (or MS Teams)

Practical Classes - at the Department, Block D, 3rd Floor.

Students who are not vaccinated won't be allowed to attend practical classes. Alternative, case-based classes based will be conducted in Block D, Ground Floor, Room no 23.

Abridged Rules of Classes in The Department of Gastroenterology and Internal Medicine:

1. Knowledge in anatomy, pathophysiology and pathology of gastrointestinal tract as well as credit in Introduction to Internal Medicine is required.
2. Punctuality to seminars and practical classes is obligatory.
3. Students are obligated to wear lab coats/scrubs, have stethoscope and student's ID on every classes.
4. In case of single excused absence student should attend the class in a form discussed with appointed teacher.
5. During the time of SARS-CoV-2 pandemic, there will be additional rules determined by university authorities.

Detailed information about classes held in the Department of Gastroenterology and Internal Medicine are available on a board next to Department office. (SP CSK, Block D, 3rd Floor)



Internal medicine - Nephrology

1. IMPRINT

Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical science
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	full-time studies
Type of module / course <i>(obligatory / non-compulsory)</i>	obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	Completion
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Chair and Department of Nephrology, Dialysis and Internal Medicine (1WM) UCK WUM Hospital Block "D", 6 th floor room 661 1a Banacha Str., 02-097 Warsaw Phone: 48 22 599 27 61 or 599 26 58, e-mail: nefrologia@wum.edu.pl

Head of Educational Unit / Heads of Educational Units	Professor Jolanta Małyszko
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Professor Jerzy Przedlacki
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	Professor Jerzy Przedlacki, tel.: 22 5992658 e-mail: nefrologia@wum.edu.pl
Teachers	Prof. Jolanta Małyszko Prof. Jerzy Przedlacki Prof. ass. Urszula Ołdakowska-Jedynak Dr. Paweł Kulicki Dr. Dr. Longin Niemczyk Dr. Tomasz Głogowski

2. BASIC INFORMATION

Year and semester of studies	V year /9 & 10 semester	Number of ECTS credits	2.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)	4	0.15	
Seminar (S)	16	0.50	
Classes (C)	10	0.35	
e-learning (e-L)	0	0	
Practical classes (PC)	0	0	
Work placement (WP)	0	0	
Unassisted student's work			
Preparation for classes and completions	30	1	

3. COURSE OBJECTIVES

O1	The aim of the course is to achieve knowledge about the principles of diagnosis in relation to selected diseases of the kidneys and urinary tract
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02	The aim of the course is to achieve knowledge about the principles of therapeutic management in relation to selected diseases of the kidneys and urinary tract

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)

Code and number of effect of learning in accordance with standards of learning <i>(in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Effects in time
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Knowledge – Graduate* knows and understands:

E.W1	knows environmental and epidemiological determinants of the most common illnesses
E.W7, 5	knows and understands: reasons, symptoms, diagnostic and treatment procedures of the most frequent internal diseases and their complications in adult patients: 5) renal and urinary tract diseases, including acute and chronic renal failure, glomerulus and interstitial renal diseases, renal cysts, nephrolithiasis, urinary system infections, urinary system cancers, including bladder tumour and kidney cancer,
E.W10	Can provide differential diagnostics of the most common diseases in adult patients/ knows and understands: basic principles of pharmacotherapy in the elderly

Skills– Graduate* is able to:

E.U1	collect medical history from adult patients
E.U3	conduct a complete and targeted physical examination in adults
E.U7	evaluate the general condition, the state of consciousness and awareness of a patient
E.U12	perform the differential diagnosis of the most common diseases in adults and children
E.U13	assess and describe the patient's somatic and psychological states
E.U14	recognise immediate threats to life
E.U16	plan diagnostic, therapeutic and preventive treatment
E.U17	analyse the side effects of particular medicines and interactions between them
E.U18	propose the individualisation of applicable therapeutic guidelines and alternative treatment in the case of ineffectiveness or contraindications to standard therapy

E.U20	qualify patients for home and hospital treatment
E.U24	interpret laboratory test results with the identification of reasons for deviation

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
K1	Can understand: the reasons, complains and diagnostic procedures of the basic internal diseases and their complications in adult patients
K2	Can plan diagnostic, therapeutic and prophylactic procedures
Skills– Graduate is able to:	
S1	Can interpret laboratory tests and identifies the causes of abnormal results
S2	Can plan specialist consultations.
Social Competencies – Graduate is ready for:	
SC1	
SC2	

6. CLASSES		
Form of class	Class contents	Effects of Learning
Lecture	Information on the most important disorders in nephrology 1. Acute renal injury 2. Chronic kidney disease	Knowledge on the most important disorders in nephrology E.W1, E.W7 p. 5, E.W10, K1, K2
Seminar	Information on important disorders in nephrology 1. Additional tests in nephrology 2. Anemia in chronic kidney disease 3. Neoplasm of kidney and urinary tract 4. Polycystic kidney disease 5. Bone and mineral disorders 6. Urinary tract infection 7. Glomerulonephritis 8. Nephrotic syndrome 9. Dialysis, renal transplantation 10. Natrium and potassium disorders	Knowledge on the important disorders in nephrology. E.W1, E.W7 p. 5, E.W10, K1, K2

Classes	Contact with the patients Training of practical, signs and symptoms assessment as well as diagnosis in nephrology	Knowledge on the practical aspects of clinical examination in nephrology E.U1, E.U3, E.U7, E.U12, E.U13, E.U14, E.U16, E.U17, E.U18, E.U20, E.U24, S1, S2.
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7. LITERATURE

Obligatory

Nephrology in a nutshell, Schonermark et al.

Supplementary

Primer on Kidney Diseases, Greenberg et al

Nephrology Secrets (fourth edition), Lerma EV et al., Elsevier, 2019

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
<i>e.g. G.K1, G.S1, K1</i>	<i>This field defines the methods used for grading students e.g. pop quiz, test, written report etc.</i>	<i>e.g. threshold number of points</i>
E.W1 E.W7 E.W10 E.U1 E.U3 E.U7 E.U12 E.U13 E.U14 E.U16 E.U17 E.U18 E.U20 E.U24	Final test (oral)	At least 50% correct answers. Detailed information will be given at the beginning of the course.
E.U1 E.U3 E.U7 E.U12 E.U13 E.U14 E.U16 E.U17 E.U18 E.U20 E.U24	Observation of student in terms of: active participation and correct execution of tasks, regular attendance at seminars and bedside classes.	Presence during classes and active participation confirmed by educator.

9. ADDITIONAL INFORMATION (information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)

Lectures:

- Nov 2ND 2021; 14⁵⁰-16²⁰; Paw. 01, ul. Pawińskiego 7
- Nov 09th 2021; 14⁵⁰-16²⁰; Paw. 01, ul. Pawińskiego 7

Seminars:

8⁰⁰-8⁴⁵ & 11³⁰-13⁰⁰

Seminars are held on the ground floor, in block D, in the room no 20 in the Hospital on Banacha 1a str.

Classes:

8⁴⁵-11³⁰

In the case of absence (only one excused absence) presence on duty at our Department, participation in the course of another group of students or preparation of the review article on the seminar topic from the day of absence. In the case of more absences only participation in the course of another group of students. In special cases the final decision depends on the Head of our Department.



INTERNAL MEDICINE – ENDOCRINOLOGY

1. IMPRINT	
Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline (in accord with appendix to the Regulation of the Minister of Science and Higher education from 26th of July 2019)	Medical science
Study Profile (general academic / practical)	General Academic
Level of studies (1 st level / 2 nd level / uniform MSc)	Uniform MSc
Form of studies (full-time / part-time)	Full time studies
Type of module / course (Obligatory / optional)	Obligatory
Form of verification of learning outcomes (exam / completion)	Credit
Educational Unit / Educational Units (and address / addresses of unit / units)	Department of Internal Diseases and Endocrinology Banacha 1a, 02-097 Warsaw Tel.: (+48 22) 599 29 75, (+48 22) 599 26 75 Faks: (+48 22) 599 19 75

	e-mail: endosek@wum.edu.pl http://endokrynologia.wum.edu.pl/
Head of Educational Unit / Heads of Educational Units	Prof. Tomasz Bednarczuk MD, PhD
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Janusz Pachucki MD, PhD e-mail: janusz.pachucki@wum.edu.pl
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	MICHAŁ POPOW MD, PhD tel. 22 599 2877 7D, room 767; tel: 22 599 2877 or 2975 Admission hours for students Tuesdays and Thursdays: 11.00-12.30
Teachers	Prof. TOMASZ BEDNARCZUK MD, PhD AMBROZIAK URSZULA MD, PhD GÓRALSKA MAGDALENA MD, PhD GIERLIKOWSKI WOJCIECH MD, PhD KUŚ ALEKSANDER MD, PhD MIŚKIEWICZ PIOTR MD, PhD PACHUCKI JANUSZ MD, PhD POPOW MICHAŁ MD, PhD ROŚŁON MAREK MD, PhD

2. BASIC INFORMATION				
Year and semester of studies	V year, 9 & -10 semester		Number of ECTS credits	2.00
FORM OF CLASSES		Number of hours	ECTS credits calculation	
Contacting hours with academic teacher				
Lecture (L)		4	0,4	
Seminar (S)		16	0,8	
Classes (C)		10	0,4	
e-learning (e-L)				
Practical classes (PC)				
Work placement (WP)				
Unassisted student's work				
Preparation for classes and completions		10	0.4	

3. COURSE OBJECTIVES

C1	To familiarize students with the most common diseases of the endocrine glands, their course, diagnosis, diagnosis, differentiation and therapeutic management.
C2	Preparation students for final exams in internal medicine.
C3	Checking the skills and knowledge of students in endocrinology

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)

Code and number of effect of learning in accordance with standards of learning (in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)	Effects in time
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Knowledge – Graduate* knows and understands:

E.W1	environmental and epidemiological determinants of the most common illnesses
E.W7, 4	reasons, symptoms, diagnostic and treatment procedures of the most frequent internal diseases and their complications in adult patients: endocrine system diseases, including hypothalamus and pituitary gland, thyroid, parathyroid glands, the cortex and medulla of adrenal glands, ovaries, testicles disease, as well as neuroendocrine tumours, polyendocrine syndromes, different types of diabetes and metabolic syndrome: hypoglycaemia, obesity, dyslipidaemia

Skills– Graduate* is able to:

E.U12	perform the differential diagnosis of the most common diseases in adults and children;
E.U24	interpret laboratory test results with the identification of reasons for deviation;
E.U38	keep a patient's medical records
E.U1	collect medical history from adult patients
E.U3	conduct a complete and targeted physical examination in adults

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)

Number of effect of learning	Effects of learning i time
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Knowledge – Graduate knows and understands:

K1	learning and understanding the etiology and symptoms of the most common diseases of the endocrine glands, in particular diseases of the parathyroid, pituitary, thyroid, adrenal glands and gonads, occurring in adults and their complications
K2	understanding the pathomechanism of metabolic disorders in endocrine diseases, learning about diagnostic schemes and interpreting the results of additional examinations and functional tests as well as the principles of treating diseases of endocrine glands.

Skills– Graduate is able to:

S1	The ability to conduct differential diagnosis, interpret the results of additional tests, perform diagnostic tests and keep medical records in endocrinology
S2	Will be able to collect anamnesis and physical examination of patients with diseases of the internal secretion organs

Social Competencies – Graduate is ready for:

SC1	
SC2	

6. CLASSES

Form of class	Class contents	Effects of Learning
Partial (optional) and final tests	Checking students' knowledge, discussing questions and clarifying doubts about them	E.W1.,E.W7
Seminars	Discussing the most common endocrine diseases, their pathogenesis, diagnosis and therapy	E.W1.,E.W7.,E.U1., E.U3., E.U7., E.U12., E.U24
Practical classes	Presentation of endocrine patients by assistants	E.W1.,E.W7., E.U1., E.U3., E.U7., E.U12., E.U24.
Remote presentation of cases by lecturers	On-line presentation of cases of endocrine patients	E.W1.,E.W7., E.U1., E.U3., E.U7., E.U12., E.U24
Presentations of patients by graduates	Presentation and discussion of endocrine patients by graduates	E.W1.,E.W7., E.U1., E.U3., E.U7., E.U12., E.U24
Discussion of a clinical case by the student - homework	Detailed reference to the given case and answers to the questions asked on the e-learning platform	E.W1.,E.W7., E.U1., E.U3., E.U7., E.U12., E.U24

7. LITERATURE

Obligatory

Supplementary

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
<i>e.g. G.K1, G.S1, K1</i>	<i>This field defines the methods used for grading students e.g. pop quiz, test, written report etc.</i>	<i>e.g. threshold number of points</i>
E.W1., E.W7., E.U1., E.U3., E.U7., E.U12., E.U24	<p>1. Homework: 3 homework during a weekly block of classes placed on the e-learning platform https://e-learning.wum.edu.pl/, assessed on a 0-100% scale. the work must be presented in electronic form on the e-learning platform within a strictly defined period of time.</p> <p>2. Team presentation (max. 5 students) of a clinical case presentation in the form of a clinical presentation or by electronic means - assessed on a scale from 0 - 100% at one time. The presentation should include: clinical examination, initial diagnosis, differential diagnosis, analysis</p> <p>3. Final written test - Multiple-choice test - 20 questions assessed on a 0-100% scale The student receives 1 point for each correct answer. The maximum possible number of points from the final test depends on the type of questions and the number of correct answers to each of them in a given test, therefore it may be variable and differ for subsequent groups of students. The minimum number of correct answers to pass the final test is 50%. Passing the final test is a required condition for successfully passing the entire block. The final grade at the end of the class is derived from:</p> <ul style="list-style-type: none"> • 60% - the result of the final test • 30% - average homework score • 10% - the result of the case presentation <p>In the event of an unsatisfactory grade, the student is entitled to a second date, i.e. another credit card, before his / her assistant with whom he / she was taking classes. One can get credit for:</p> <ol style="list-style-type: none"> 1. By writing a written test with the next exercise group 2. In exceptional circumstances (no other group, no appropriate date, etc.) - presentation of an additional clinical case 	<p><i>pass threshold - above 50% grade for achievement:</i> <i>(3) - 51-64%</i> <i>(3.5) - 65-70%</i> <i>good grade (4) - 71-85%</i> <i>(4.5) - 85-89%</i> <i>very good rating (5) - 90-100%</i></p>

9. ADDITIONAL INFORMATION (information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)

The weekly series of classes consists of 20 seminars and 10 lesson hours of practical classes or case presentations in a remote-electronic form

The content of the seminars is available on the website: <https://e-learning.wum.edu.pl/>

S1. Hypopituitarism

S2. Active and non-active pituitary adenomas

S3. Primary hyperthyroidism and hypothyroidism

S4. Nodular disease of the thyroid gland

S5. Adrenal insufficiency

S6. Cushing's syndrome

S7. Neuroendocrine tumors and multi-glandular neoplastic syndromes

S8. Disorders of parathyroid function and calcium-phosphate metabolism

S9. Obesity and lipid disorders

S10. Emergences in endocrinology

Two lectures will be presented on 30-th of November and 7-th of December (paw01-Pathomorphology Hall at 7 Pawińskiego St)



Pediatric Nephrology

1. IMPRINT	
Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical science
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	Full time studies
Type of module / course <i>(obligatory / non-compulsory)</i>	Obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	Credit
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Department of Pediatrics and Nephrology Children's Hospital Żwirki i Wigury 63A 02-091 Warszawa Phone: 48 22 317 96 53
Head of Educational Unit / Heads of Educational Units	Associate Professor Małgorzata Pańczyk- Tomaszewska MD PhD
Course coordinator <i>(title, First Name, Last Name, contact)</i>	Jarosław Sołtyski MD PhD jsoltyski@wum.edu.pl

Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	Jarosław Sołtyski MD PhD jsoltyski@wum.edu.pl
Teachers	Małgorzata Pańczyk- Tomaszewska MD PhD Małgorzata Mizerska- Wasiak MD PhD Maria Daniel MD Anna Kokoszka MD Anna Ozimek MD Piotr Skrzypczyk MD PhD Jarosław Sołtyski MD PhD Agnieszka Szmigielska MD PhD Agnieszka Turczyn MD

2. BASIC INFORMATION				
Year and semester of studies	V year, 9 & 10 semester		Number of ECTS credits	2.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation	
Contacting hours with academic teacher				
Lecture (L)		5	0.1	
Seminar (S)		10	0.5	
Classes (C)		15	1.0	
e-learning (e-L)				
Practical classes (PC)				
Work placement (WP)				
Unassisted student's work				
Preparation for classes and completions		10	0.4	

3. COURSE OBJECTIVES	
O1	The aim of the course is to achieve and preserve knowledge about the principles of the assesment, differential diagnosis and treatment of the disease within the following areas of Pediatrics: Pediatric Nephrology
O2	
O3	

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (*concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study*)

Code and number of effect of learning in accordance with standards of learning (in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)	Effects in time
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Knowledge – Graduate* knows and understands:

G.K1/ E.W1	Knowledge of environmental and epidemiological circumstances of the most often seen diseases within the following areas of Pediatrics: Pediatric Nephrology/ E.W1: environmental and epidemiological determinants of the most common illnesses
G.K2/ E.W3, 6	Basic knowledge of pediatric nephrology: development, structure and function of kidneys, structural abnormalities of urinary tract, urinary tract infection, nephrotic syndrome and glomerulonephritis, nephropathies: SLE, Henoch-Schonlein syndrome and others, urolithiasis, hemolytic- uremic syndrome, acute kidney injury, chronic kidney disease with renal replacement therapy/ E.W3, 6: causes, symptoms, principles of diagnosis and therapeutic treatment of the most common diseases in children: urinary system infections, congenital defects of the urinary system, nephrotic syndrome, nephrolithiasis, acute and chronic renal failure, acute and chronic renal inflammations, systemic renal diseases, urination disorders, vesicoureteral reflux

Skills– Graduate* is able to:

G.S1	Ability to make a diagnosis, based on child's medical history, findings in physical examination along with additional tests and images
G.S2	Ability to differentiate abnormal findings in anamnesis and physical examination within following areas of Pediatric Nephrology
E.U2	collect medical history from a child and its family
E.U4	conduct a physical examination of children of any age
E.U7	evaluate the general condition, the state of consciousness and awareness of a patient
E.U9	compare percentile charts with anthropometric and blood pressure measurements
E.U10	evaluate the grade of sexual development
E.U12	perform the differential diagnosis of the most common diseases in adults and children
E.U13	assess and describe the patient's somatic and psychological states
E.U14	recognise immediate threats to life
E.U15	recognise states under the influence of alcohol, drugs and other stimulants
E.U16	plan diagnostic, therapeutic and preventive treatment
E.U17	analyse the side effects of particular medicines and interactions between them
E.U18	propose the individualisation of applicable therapeutic guidelines and alternative treatment in the case of ineffectiveness or contraindications to standard therapy

E.U20	qualify patients for home and hospital treatment
E.U21	recognise the conditions in which life expectancy, functional patient state or preferences limit the treatment according to the guidelines for a given disease
E.U24	interpret laboratory test results with the identification of reasons for deviation
E.U25	use feeding protocols (enteral and parenteral)
E.U27	qualify a patient for vaccinations
E.U32	plan specialist consultations

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
K1	Importance of profound analysis of pediatric patient problems
K2	Use of objective sources of medical knowledge/ sciences
Skills– Graduate is able to:	
S1	Have a good contact with patients and parents
S2	Understand different background of patients and their parents
Social Competencies – Graduate is ready for:	
SC1	Cooperate in a group of professionals in a proces of diagnosis and treatment
SC2	Be responsible for decisions in a therapeutic process

6. CLASSES		
Form of class	Class contents	Effects of Learning
Lectures	Congenital anomalies of the kidney and the urinary tract Kidney involvement in systemic disease Urolithiasis	E.W1, E.W3 p. 6

Seminars	Acute kidney injury Chronic kidney disease Nephrotic syndrome Glomerulonephritis CAKUT Hypertension Urinary bladder disturbances Hematuria Hemolytic uremic syndrome Laboratory investigation and diagnostic imaging in Nephrology	E.W1, E.W3 p. 6, G.S1, G.S2, E.U2, E.U4, E.U7, E.U9, E.U10, E.U12, E.U13, E.U14, E.U15, E.U16, E.U17, E.U18, E.U20, E.U21, E.U24, E.U25, E.U27, E.U32 During the seminars teachers will check understanding of the topic problems
Classes	Practical bedside classes with appointed teacher	G.S1, G.S2, E.U2, E.U4, E.U7, E.U9, E.U10, E.U12, E.U13, E.U14, E.U15, E.U16, E.U17, E.U18, E.U20, E.U21, E.U24, E.U25, E.U27, E.U32 Evaluate the practical knowledge of physical examination and analysis of symptoms

7. LITERATURE

Obligatory

Nelson Essentials of Pediatrics, 8th ed, Marcdante K, Kliegman RM, Elsevier Health Sciences, 2018

Supplementary

Nelson Textbook of Pediatrics, 20th ed, Kliegman RM W.B. Saunders Company 2015

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
<i>e.g. G.K1, G.S1, K1</i>	Active participation in lectures and seminars Oral colloquium or test	At least satisfactory acquisition of outcomes corresponding to the subject
	Bedside classes	At least satisfactory acquisition of abilities in bedside classes according to the direct teacher's assessment

9. ADDITIONAL INFORMATION *(information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)*

White coat and footwear change is required during bedside classes



Pediatrics Hematology and Oncology

1. IMPRINT	
Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline (in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)	Medical science
Study Profile (general academic / practical)	General academic
Level of studies (1 st level / 2 nd level / uniform MSc)	Uniform MSc
Form of studies	Full time studies
Type of module / course (obligatory / non-compulsory)	Obligatory
Form of verification of learning outcomes (exam / completion)	Credit
Educational Unit / Educational Units (and address / addresses of unit / units)	Department of Pediatrics Hematology and Oncology WUM (1WG) Children's Hospital Zwirki i Wigury 63A 02 091 Warszawa Phone: 48 22 317 96 21, 20

Head of Educational Unit / Heads of Educational Units	Prof. Michał Matysiak MD PhD
Course coordinator (title, First Name, Last Name, contact)	Iwona Malinowska MD PhD iwona.malinowska@wum.edu.pl
Person responsible for syllabus (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	Iwona Malinowska MD PhD iwona.malinowska@wum.edu.pl
Teachers	Iwona Malinowska MD PhD Katarzyna Pawelec MD PhD Katarzyna Smalisz MD PhD Anna Szmydki-Baran MD

2. BASIC INFORMATION

Year and semester of studies	5 th year; 9 &10 semester	Number of ECTS credits	2.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		5	0,1
Seminar (S)		10	0,5
Classes (C)		15	1,0
e-learning (e-L)			
Practical classes (PC)			
Work placement (WP)			
Unassisted student's work			
Preparation for classes and completions		10	0,4

3. COURSE OBJECTIVES

O1	The aim of the course is to achieve knowledge about the principles of the assessment, differential diagnosis and treatment of hematological and oncological disorders of childhood.
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O2	
O3	

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)

Code and number of effect of learning in accordance with standards of learning (in accordance with appendix to Regulation of Minister of Science and Higher education from 26th July 2019)	Effects in time
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Knowledge – Graduate* knows and understands:

G.K1	Knowledge of environmental and epidemiological circumstances of the most often seen diseases within the following areas of pediatric hematology and oncology
G.K2	Basic knowledge of pediatric hematology and oncology: anemia in children, hemophilia, lymphadenopathy, hemorrhagic diathesis, thrombosis in children, neutropenia in children, leukemia, solid tumors in children, transfusion of blood products
E.W1	environmental and epidemiological determinants of the most common illnesses
E.W3, 4	causes, symptoms, principles of diagnosis and therapeutic treatment of the most common diseases in children: 4. anaemia, bleeding diatheses, marrow failure, cancers in children, including solid tumours typical of childhood
E.W4	the following terms: battered child, sexual harassment, mental retardation, conduct disorders: psychoses, addictions, eating and excretion disorders in children

Skills– Graduate* is able to:

G.S1	Ability to make a diagnosis based on child's medical history, findings in physical examination along with additional tests and imaging.
G.S2	Ability to differentiate abnormal findings in anamnesis and physical examination within following areas of pediatric hematology and oncology.
E.U2	collect medical history from a child and its family
E.U4	conduct a physical examination of children of any age
E.U6	conduct an explanatory examination of hearing and the field of vision, as well as an otoscopic examination
E.U7	evaluate the general condition, the state of consciousness and awareness of a patient
E.U9	compare percentile charts with anthropometric and blood pressure measurements
E.U10	evaluate the grade of sexual development

E.U12	perform the differential diagnosis of the most common diseases in adults and children
E.U20	qualify patients for home and hospital treatment
E.U24	interpret laboratory test results with the identification of reasons for deviation
E.U27	qualify a patient for vaccinations

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
K1	
K2	
Skills– Graduate is able to:	
S1	
S2	
Social Competencies – Graduate is ready for:	
SC1	
SC2	

6. CLASSES		
Form of class	Class contents	Effects of Learning
Lectures	Acquired aplastic anemia Hematopoietic stem cell transplantation in children Bone marrow insufficiency in children	E.W.1 E.W.3 E.W.4
Seminars	Anemia in children Lymphadenopathy Hemophilia Other hemorrhagic diathesis in children Lymphoma in children Leukemia in children Thrombosis in children Neutropenia in children Solid tumors in children	E.W.1 E.W.3 E.W.4

	Hemophagocytic syndrome	
Bedside classes	Training of practical, signs and symptoms assessment as well as diagnosis in pediatric hematology and oncology	E.U.2, E.U.4, E.U.6, E.U.7, E.U.9, E.U.10, E.U.12, E.U.20, E.U.24, E.U.27

7. LITERATURE
Obligatory
<ol style="list-style-type: none"> 1. Nelson Essentials of Pediatrics, 7th ed, Marc dante K, Kliegman RM; W.B. Saunders Company, 2015 2. Illustrated Text book of Pediatrics, 4th ed, Lissauer T, Clayden G; Mosby Ltd., 2012
Supplementary
<ol style="list-style-type: none"> 1. Nelson Textbook of Pediatrics, 20th ed, Kliegman, Stanton, St.Geme, Schor; W.B. Saunders Company, 2015

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
e.g. G.K1, G.S1, K1	Active participation in seminars, lecture, rounds in oncology division. Oral colloquium	At least satisfactory acquisition of outcomes corresponding to the subject
	Bedside classes	At least satisfactory acquisition of abilities in bedside classes according to the direct teacher's assessment.

9. ADDITIONAL INFORMATION (information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)
E-learning depending on the epidemiological situation.



Obstetrics and gynecology

1. IMPRINT

Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical science
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	Full time studies
Type of module / course <i>(obligatory / non-compulsory)</i>	Obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	Credit
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	(2WA) Obstetrics, Gynaecology and Oncology, MUW 8 Kondratowicza Street Warsaw 03-242, phone: 48 22 32 65 818, e-mail: klingin@wum.edu.pl Building E, ground floor (1W61) II Department of Obstetrics and Gynecology, MUW

	2 Karowa St., 00-315 Warsaw Phone: 48 22 59 66 421, e-mail: klinika@szpitalkarowa.pl
Head of Educational Unit / Heads of Educational Units	Prof. Włodzimierz Sawicki, MD, PhD (2WA) Prof. Krzysztof Czajkowski, MD, PhD (1W61)
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Prof. Krzysztof Cendrowski, MD, PhD
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	Anna Wnuk, PhD, anna.wnuk@wum.edu.pl
Teachers	Prof. Włodzimierz Sawicki, MD PhD; Prof. Krzysztof Cendrowski, MD PhD; Jolanta Mazurek-Kantor, MD PhD; Michał Bachanek, MD PhD; Anna Wnuk PhD; Aleksandra Zielińska, MD PhD; Seweryn Trojanowski, MD PhD; Bohdan Dźwigala, MD PhD, Anna Kociszewska, MD PhD, Joanna Winiarek, MD; Magdalena Bizoń-Szpernałowska, MD PhD; Anna Słomka, MD; Marta Chołuj, MD; Witold Krzywdziński, MD; Katarzyna Pietuch, MD; Ewa Dobrzyńska, MD; Wiktoria Malinowska, MD; Mateusz Stępień, MD; Mateusz Kryczka, MD; Szymon Bębenek, MD; Natalia Świątek, MD; Monika Ostapów, MD; Katarzyna Huzior, MD; Volka Ulan, MD; Aleksandra Warska, MD; Monika Pazura-Turowska, MD

2. BASIC INFORMATION

Year and semester of studies	V year, 10 semester (summer)		Number of ECTS credits	9.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation	
Contacting hours with academic teacher				
Lecture (L)				

Seminar (S)	20	1
Classes (C)	120	5
e-learning (e-L)		
Practical classes (PC)		
Work placement (WP)		
Unassisted student's work		
Preparation for classes and completions	75	3

3. COURSE OBJECTIVES	
O1	To obtain the theoretical knowledge on physiology and pathology of the pregnancy and the delivery as well as physiopathology of the neonatal period.
O2	To obtain practical ability of obstetrical examination of women during pregnancy, labor and puerperium.
O3	To obtain practical ability in management of normal and complicated delivery.
O4	To gain basic training in management of obstetrical emergencies.
O5	To gain basic knowledge about endocrinology.
O6	To gain practical basic skills in field of obstetrics.

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)	
Code and number of effect of learning in accordance with standards of learning <i>(in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Effects in time
Knowledge – Graduate* knows and understands:	
G.K1	F.W9.2 Student is able to diagnose and monitor physiological and pathological pregnancy.
G.K2	F.W9.3 Student is able to diagnose and monitor physiological and pathological delivery.
G.K3	F.W9.3 Student knows the puerperium development and complications during puerperium.

G.K4	F.W9.1 Student is able to diagnose menstrual cycle and its disorders.
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Skills– Graduate* is able to:

G.S1	F.U15 Student is able to interpret CTG monitoring.
G.S2	F.U13, F.U14, F.U16 Student is able to recognize high risk pregnancy.
G.S3	F.U17 Student is able to examine patient in puerperium.
G.S4	F.U18 Student knows indications and contraindications to use contraceptives.

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)

Number of effect of learning	Effects of learning i time
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Knowledge – Graduate knows and understands:

K1	Student respects medical confidentiality and patient’s rights.
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Skills– Graduate is able to:

S1	Student is guided by the good of the patients, putting them in the foreground.
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Social Competencies – Graduate is ready for:

SC1	Able to establish and maintain a deep and respectful contact with the patient.
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6. CLASSES

Form of class	Class contents	Effects of Learning
Seminar (S)	<p>S1. Diagnosis of the pregnancy. Physiological changes during pregnancy development. Methods of electronic (CTG,USG) and biochemical monitoring in pregnancy and labour.</p> <p>S2. Pregnancy in diabetic woman. Liver diseases in pregnancy.</p> <p>S3. Uterine function disorders: atony- diagnosis & treatment. Rupture of the uterus. Post-term pregnancy and induction of labour.</p> <p>S4. Haemostasis and coagulation disorders in pregnancy. Shock in obstetrics. Premature ablation of the placenta. Intrauterine fetal death. Amniotic fluid embolus.</p> <p>S5. Physiopathology of the newborn.</p> <p>S6. Abortion- classification, diagnosis and treatment. Incompetent cervix- diagnosis and treatment. Premature labour- treatment. The puerperium- normal changes and complications.</p> <p>S7. Rh incompatibility. Life threatening and emergency cases in obstetrics.</p> <p>S8. Heart diseases in pregnancy. Anaemia in pregnancy. Infectious diseases in pregnancy. Physiotherapy in obstetrics.</p> <p>S9. PIH and Eclampsia. Urinary tract infections in pregnancy.</p>	<p>G.K1, G.S1</p> <p>G.K1, G.S2</p> <p>G.K1, G.K2, G.S2</p> <p>G.K1, G.K2, G.S2</p> <p>G.K1, G.K2, G.S2, G.S3</p> <p>G.K1, G.S2</p> <p>G.K1, G.K2, G.S2</p> <p>G.K1, G.S2</p> <p>G.K4, G.S4</p>

	S10. Management of normal vaginal delivery. Breech presentation. Abnormal position and lie of fetus. Use of forceps and vacuum.	
Classes (C)	Clinical practice in wards, practical classes with phantom demonstrations	G.S1-G.S4
e-learning (e-L)	Optional synchronous learning and asynchronous learning in online education via e-learning.wum.edu.pl, Microsoft Teams, Zoom (seminars only)	

7. LITERATURE

Obligatory

1. Llewelyn- Jones D.: "Fundamentals of Obstetrics and Gynaecology" Elsevier Limited, 2017.

Supplementary

1. Contemporary student's textbook of obstetrics and gynaecology edited in United States or the United Kingdom may be accepted.
2. Crash Course 4th Edition, Obstetrics and Gynaecology. Elsevier Limited, 2019.
3. Brian A. Magowan. Clinical Obstetrics and Gynaecology. 4th Edition. Elsevier Limited 2019.
4. Kate V. Meriwether. Obstetrics and Gynaecology Morning Report. Elsevier 2018.
5. Hao-Hua Wu. Gunner Googles. Augmented 1st Edition. Obstetrics and Gynaecology. Elsevier 2019.
6. John Guillebaud. 7th Edition Contraception. Elsevier 2017.

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
e.g. G.K1, G.S1, K1	<i>This field defines the methods used for grading students e.g. pop quiz, test, written report etc.</i>	<i>e.g. threshold number of points</i>
G.K1- G. K4; G.S1- G.S4; K1, S1; SC1	Complete the entire course and attendance at all classes with the exception of one permitted absence during the course. Student's presence confirmed in the student's card (S+PC) + examination of pregnant patient + MCQ test.	Normal Distribution (Gaussian Distribution)

9. ADDITIONAL INFORMATION (information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)

1. The student is obliged to read the syllabus and time- table on the notice board in the department.
2. The student participate in classes (seminars and practice) only with the group. Possible group chance is allowed in exceptional, justified situations and requires individual approval (anna.wnuk@wum.edu.pl)
3. The student is obliged to follow the Medical University of Warsaw Regulations (available on the University's website).
4. During classes with patients, students keep seriousness and silence.
5. Meals and drinks should be consumed during breaks.



Surgery

1. IMPRINT

Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline (in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)	Medical science
Study Profile (general academic / practical)	General academic
Level of studies (1 st level / 2 nd level / uniform MSc)	uniform MSc
Form of studies	full time studies
Type of module / course (obligatory / non-compulsory)	obligatory
Form of verification of learning outcomes (exam / completion)	completion
Educational Unit / Educational Units (and address / addresses of unit / units)	<p>(2W2) 2nd Department of General, Vascular and Oncological Surgery 19/25 Stępińska St., 00-739 Warsaw, tel. 48 22 31 86 390, 391</p> <p>(1WA) Department of General, Endocrine Surgery and Vascular Diseases 1a Banacha St., 02-097 Warsaw Phone: 48 22 599 25 64, e-mail: zbigniew.galazka@wum.edu.pl</p>

Head of Educational Unit / Heads of Educational Units	(2W2) Mariusz Frączek MD, PhD (1WA) Prof. Zbigniew Gałązka MD, PhD
Course coordinator (title, First Name, Last Name, contact)	(2W2) M. Polańska- Płachta MD, PhD, eustacha2@gmail.com Ł. Kaczorowski MD, lukasz.m.kaczorowski@gmail.com
Person responsible for syllabus (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	M. Polańska- Płachta MD, PhD, eustacha2@gmail.com Ł. Kaczorowski MD, lukasz.m.kaczorowski@gmail.com
Teachers	L. Al- Hamdani MD, M. Burdzel MD, K. Cybula MD, M. Czerwińska MD, M. Frączek MD PhD, Ł. Kaczorowski MD, A. Kwiatkowska MD, Sz. Lelas MD, Ł. Masior MD PhD, A. Obcowska- Hamerska MD PhD, A. Pomianowska MD, M. Polańska- Płachta MD PhD, Jerzy A. Polański MD PhD, M. Wyleżoł MD, PhD, S. Ziemka MD.

2. BASIC INFORMATION

Year and semester of studies	5 th year, IX & X winter/spring semester	Number of ECTS credits	7.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		0	0
Seminar (S)		35	2,3
Classes (C)		65	4,7
e-learning (e-L)		0	0
Practical classes (PC)		0	0
Work placement (WP)		0	0
Unassisted student's work			
Preparation for classes and completions			

3. COURSE OBJECTIVES

O1	Student takes medical history. Student assesses general condition of the patient, their consciousness and awareness. Student describes patient's somatic complaints. Student performs full medical examination. Student makes differential diagnosis.
O2	Student knows and understands signs and symptoms, diagnosis and management of the most common diseases that require surgical treatment

O3	Student knows indications, complications of the most common types of surgeries
O4	Student assists in typical surgery. Student is able to use basic surgical tools. Student obeys to rules of asepsis and antysepsis. Student knows safety rules of preoperative and postoperative patient's management.
O5	Student participates in basic medical procedures.

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (*concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study*)

Code and number of effect of learning in accordance with standards of learning <i>(in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Effects in time
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Knowledge – Graduate* knows and understands:

F.W1	Student knows and understands signs and symptoms, diagnosis and management of the most common diseases that require surgical treatment: a) Acute and chronic abdominal diseases b) Thoracic diseases c) Head trauma d) Politrauma
F.W3	Student knows indications, complications of the most common types of surgeries
F.W4, F.W5	Student knows safety rules of preoperative and postoperative patient's management.

Skills– Graduate* is able to:

E.U1, F.W1, F.W10, F.W13	Student takes medical history. Student assesses general condition of the patient, their consciousness and awareness. Student describes patient's somatic complaints.
E.U3, F.U6	Student performs full medical examination.
F.W10, F.W13, E.U16	Student makes differential diagnosis.
F.U1	Student assists in typical surgery.
F.U2	Student is able to use basic surgical tools.
F.U3	Student obeys to rules of asepsis and antysepsis.
F.U5, F.U12, F.U21, F.U22, E.U7, E.U29	Student participates in basic medical procedures e.g.: a) Vital signs monitoring, b) Intramuscular and subcutaneous injections, collects blood samples from peripheral veins, c) Bladder catheter placing in men and women

D.U15	Student cares about patient's rights i.e. protects his privacy, respects his right for intimacy, right for information about his health.
D.W4, D.U5, D.U12	Student respects physician- patient privilege.

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)	
Number of effect of learning	Effects of learning in time
Knowledge – Graduate knows and understands:	
K1	
K2	
Skills– Graduate is able to:	
S1	
S2	
Social Competencies – Graduate is ready for:	
SC1	
SC2	

6. CLASSES		
Form of class	Class contents	Effects of Learning
Practical classes (PC)	PC1- Physical examination and medical history taking. PC2- Medical case presentation. PC3- Participation in the medical procedures undertaken on the ward, postoperative room. PC4- Participation in surgeries. PC5- Outpatient Department. PC6- Basic suturing techniques. PC7- Ultrasound imaging as a diagnostic and therapeutic tool.	
Seminar (S)	S1- Preoperative and postoperative problems in surgical patient care. S2- Surgical wounds care and surgical technique. S3- Abdominal hernias S4- Head trauma S5- Gastrointestinal bleeding. S6- Acute pancreatitis. S7- Gallstones and chronic cholecystitis. S8- Colon cancer. S9- DVT S10- Spleen surgery	

	S11- Ileus S12- Peptic ulcer disease S13- Appendicitis S14- Introduction to trauma S15- Atherosclerosis obliterans. Aneurysms.	
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7. LITERATURE
Obligatory
Principles and Practice of Surgery. O. James Garden et al. Elsevier, 7th Edition
Supplementary

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
PC1-PC7	Students are assessed on the grounds of their regular attendance at seminars and active participation in bedside classes	Attendance
S1-S15	MCQ test	At least satisfactory result of the MCQ test provided on the last day of the course (12/20).

9. ADDITIONAL INFORMATION <i>(information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)</i>
<p><u>Didactics and organization of the classes:</u></p> <ul style="list-style-type: none"> - realization of the program will be based on seminars presenting the current state of knowledge in specific subject and practical classes in clinical wards, out-patients clinics, operation theater - classes start at 9 a.m and continue until 2 p.m. (including half- an- hour- break) - students are expected to have their own lab coat, stethoscope, student's ID, shoes - to complete the course students are expected to pass a test composing of 20 questions (a minimum of 12 correct answers is needed to pass the test). MCQ test covers program based on seminars and practical classes - student's absences should be worked out on duties in terms coordinated by tutor; only 2 absences are allowed to be worked out. There is no credit for the student who was missing more practical classes or seminars <p><u>Surgery Club</u></p> <p>Surgery Club is directed to English Division students. Tutors of the club are M. Polańska- Płachta MD PhD, Łukasz Kaczorowski MD. Meetings are held twice a month. Members of the club are allowed to participate in medical duties and have the possibility to write medical papers, case reports which are then presented on student's conferences.</p>



Protection of Intellectual Property

1. IMPRINT

Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical science
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	full time studies
Type of module / course <i>(obligatory / non-compulsory)</i>	obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	credit
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Department of Medical Genetics (1WY) Center for Biostructure Research, First Faculty of Medicine ul. Pawińskiego 3c, 02-106 Warszawa phone: +48 22 572 06 95, fax: +48 22 572 06 96 http://www.genetyka.wum.edu.pl

Head of Educational Unit / Heads of Educational Units	Head of the Department: Rafał Płoski MD PhD
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Dr Marek Wroński
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	Marek Wroński, MD, PhD, Marekwro@gmail.com
Teachers	Marek Wroński, MD, PhD, Marekwro@gmail.com

2. BASIC INFORMATION			
Year and semester of studies	V year, 10 semester	Number of ECTS credits	0.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		2 hrs.	
Seminar (S)		NA	
Discussions (D)		NA	
e-learning (e-L)		NA	
Practical classes (PC)		NA	
Work placement (WP)		NA	
Unassisted student's work			
Preparation for classes and completions		0	

3. COURSE OBJECTIVES	
O1	Understanding general definitions of intellectual property and research integrity. Knowledge of basic problems (plagiarism, data falsification and data fabrication) regarding scientific misconduct in medical research, publications and presentations..
O2	Familiarity with standards of research integrity in paper writing and public medical presentations.

O3	Basic knowledge of responsible conduct of research in clinical sciences. Professionalism in the field of intellectual property and research integrity at the level of medical student
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4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (*concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study*)

Code and number of effect of learning in accordance with standards of learning <i>(in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Effects in time : D.W16 D.U13
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Knowledge – Graduate* knows and understands:

G.K1	Knows the legal obligations with regard intellectual property rights and research integrity in medical sciences.
G.K2	Knows the author's rights in medical publications and presentations. Knows the possible legal and disciplinary consequences of violating copyrights and research integrity

Skills– Graduate* is able to:

G.S1	Understands the rules of citations and how to use the reference literature in medicine
G.S2	Recognize the principles of copying and sharing medical articles and the use of internet databases . Recognize some cases of scientific misconduct in medical sciences.

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (*non-compulsory*)

Number of effect of learning	Effects of learning i time
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Knowledge – Graduate knows and understands:

K1	
K2	

Skills– Graduate is able to:

S1	
S2	

Social Competencies – Graduate is ready for:

SC1	
SC2	

6. CLASSES		
Form of class	Class contents	Effects of Learning

7. LITERATURE
Obligatory
https://ori.hhs.gov/sites/default/files/rcrintro.pdf (Introduction to responsible conduct of research; by prof. Nicholas Steneck)
Supplementary
https://ori.hhs.gov/videos/case-study

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
e.g. G.K1, G.S1, K1	<i>This field defines the methods used for grading students e.g. pop quiz, test, written report etc.</i>	<i>e.g. threshold number of points</i>
	Pass – attending the lecture	

9. ADDITIONAL INFORMATION <i>(information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)</i>



Rehabilitation

1. IMPRINT	
Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical science
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	Full time studies
Type of module / course <i>(obligatory / non-compulsory)</i>	Obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	Credit
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Department of Rehabilitation, University Clinical Center of Medical University of Warsaw Banacha 1a Str., 02-097 Warsaw, phone: 22 599 25 63 https://uckwum.pl/spcsk/zaklad-rehabilitacji/
Head of Educational Unit / Heads of Educational Units	Prof. dr hab. n. med. Witold Rongies

Course coordinator (<i>title, First Name, Last Name, contact</i>)	Karen Shahnazaryan, Phd E-mail: karen.shahnazaryan@wum.edu.pl
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	Agnieszka Lewińska, MSc E-mail: agnieszka.lewinska@wum.edu.pl
Teachers	Aleksandra Bogusz MSc, Monika Borowiec M.D, Ewa Kobiela MSc, Agnieszka Lewińska MSc, Karen Shahnazaryan, PhD;

2. BASIC INFORMATION			
Year and semester of studies	V year, X semester	Number of ECTS credits	1.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)			
Seminar (S)		10 (10 e-learning)	0.4
Classes (C)		20	0.6
e-learning (e-L)			
Practical classes (PC)			
Work placement (WP)			
Unassisted student's work			
Preparation for classes and completions		15	

3. COURSE OBJECTIVES	
O1	Introduction to the basics of medical rehabilitation
O2	Recognise various physical disabilities and functional limitations experienced by people who receive rehabilitation services
O3	Identify generic and specialized resources available to serve people with disabilities
O4	Identify the roles of different professionals in the field of rehabilitation
O5	Develop basic rehabilitation service delivery skills - Describe rehabilitation process and techniques used to evaluate eligibility for services - Develop appropriate treatment plans, and provide follow-up

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING <i>(concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)</i>	
Code and number of effect of learning in accordance with standards of learning <i>(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Effects in time

Knowledge – Graduate* knows and understands:

E.W30.	The concept of disability and invalidity
E.W31.	The role of medical rehabilitation and methods used within the course of medical rehabilitation process

Skills– Graduate* is able to:

E.U22.	Perform a functional assessment of a patient with disability
E.U23.	Propose rehabilitation program in the most common diseases

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING <i>(non-compulsory)</i>	
Number of effect of learning	Effects of learning in time

Knowledge – Graduate knows and understands:

O.W3.	Diagnostic and therapeutic methods appropriate for specific disease states
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Skills – Graduate is able to:

O.U8.	Communicate with colleagues in the team and share knowledge
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Social Competencies – Graduate is ready for:

O.K5	Noticing and recognizing own limitations and self-assessment of deficits and educational needs
O.K7	The use of objective sources of information
O.K9	Implementing the principles of professional camaraderie and cooperation in a team of specialists, including representatives of other medical professions, also in a multicultural and multi-national environment

6. CLASSES		
Form of class	Class contents	Effects of Learning
Seminar (on-line)	The principles of medical rehabilitation Rehabilitation programs' organization Physiotherapeutic methods used in medical rehabilitation	E.W30.; E.W31.; E.U22.; E.U23.; O.W3.; O.K5; O.K7;

Classes	Physiotherapy in an outpatient - kinesiotherapy - physical therapy - massage Physiotherapy in a hospital ward - surgical department - internal medicine department - intensive care unit Functional assessment of a patient Orthopedic equipment Ergonomics	E.W30.; E.W31.; E.U22.; E.U23.; O.W3.; O.U8.; O.K5; O.K9;
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7. LITERATURE
Obligatory
Mitra R. Principles of Rehabilitation Medicine [Internet]. New York: McGraw-Hill Education; 2019. Available in: https://accessmedicine-1mhmedical-1com-1000015tb0cd3.han3.wum.edu.pl/Book.aspx?bookid=2550 Maitin I. B., Cruz E. Current diagnosis & treatment. Physical medicine & rehabilitation [Internet]. New York: McGraw-Hill Education; 2015. Available in: https://accessmedicine-1mhmedical-1com-1000015tb0cd3.han3.wum.edu.pl/Book.aspx?bookid=1180
Supplementary
Students who are particularly interested in the issues discussed, will have access to the additional materials. Articles and books will be available on the e-learning platform: https://e-learning.wum.edu.pl/en/ .

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
E.W30.; E.W31., E.U22., E.U23., O.W3., O.U8., O.K5, O.K7, O.K9;	On-line test with Multiple Choice Questions (MCQs)	Correct answers to at least 60% of MCQs
E.U22., E.U23., O.U8., O.K5, O.K9;	Direct teacher’s assessment	At least 60% correctness of the practical task completion

9. ADDITIONAL INFORMATION <i>(information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)</i>
<p>Duration of the course is 1 week (from Monday to Friday).</p> <p>Attendance is obligatory. The attendance list is checked every day. More than 1 absence will result in failure of the course. Only documented reason for absence is taken into account.</p> <p>We meet at the Department of Rehabilitation (Banacha 1a Str., building E, -1 floor, next to the registration) at 9:00 a.m.</p> <p>Lab coats / scrubs, facial masks, and footwear change are required during stationary classes.</p> <p>The detailed course schedule will be presented on the first day.</p> <p>Seminars will be undertaken in the form of e-learning modules using e-learning WUM platform: https://e-learning.wum.edu.pl/en/ .</p> <p>Materials for self-study will be available on the e-learning platform.</p> <p>The final test takes place on the last day of the course. The link will be available on the e-learning platform.</p>



Transplantology

1. IMPRINT	
Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical science
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	Full time studies
Type of module / course <i>(obligatory / non-compulsory)</i>	Obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	Completion
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Department of Transplantation Medicine, Nephrology and Internal Diseases Address: 59 Nowogrodzka St, 02-006 Warsaw Phone: 22 502 12 32 Fax: 22 502 21 26

Head of Educational Unit / Heads of Educational Units	Professor Magdalena Durlik
Course coordinator (<i>title, First Name, Last Name, contact</i>)	MD PhD Olga Tronina
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	MD PhD Olga Tronina
Teachers	Magdalena Durlik, profesor, MD, PhD Teresa Bączkowska, MD, PhD Joanna Pazik, MD, PhD Dominika Dęborska-Materkowska, MD, PhD Ewa Nowacka-Cieciura, MD, PhD Jolanta Gozdowska, MD, PhD Olga Tronina, MD, PhD Agnieszka Furmańczyk-Zawiska, MD, PhD Maciej Kosieradzki, professor, MD, PhD Beata Łągiewska, MD, PhD Wojciech Lisik, professor, MD, PhD Marek Pacholczyk, MD, PhD Piotr Domagała, MD, PhD Łukasz Górski, MSc

2. BASIC INFORMATION				
Year and semester of studies	V year, IX & X semester		Number of ECTS credits	2.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation	
Contacting hours with academic teacher				
Lecture (L)		6	0.2	
Seminar (S)		19	1.0	
Classes (C)		15	0.8	
e-learning (e-L)				
Practical classes (PC)				
Work placement (WP)				
Unassisted student's work				
Preparation for classes and completions				

3. COURSE OBJECTIVES	
O1	Legal issues in transplantology. Indications for solid organ transplantation
O2	Basics of transplantation immunology, tissue typing and recipient selection, rules of immunosuppressive treatment.
O3	Common post-transplant complications- pathogenesis, clinical presentation, differential and treatment

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING <i>(concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)</i>	
Code and number of effect of learning in accordance with standards of learning <i>(in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Effects in time

Knowledge – Graduate* knows and understands:

G.K1	E.W21. Issues in the field of transplantation immunology, principles of selecting the donor and recipient of organ and stem cells transplants F.W14. The basics of interventional transplantation, indications for the transplantation of irreversibly damaged organs and tissues and related procedures. F.W15. Principles of brain death determination
G.K2	E.W22. Types of transplants and immune mechanisms of allograft rejection C.W39. Major drug side effects, including drug interactions

Skills– Graduate* is able to:

G.S1	E.U1. Conduct medical interview with and adult patient E.U3. Conduct a complete and targeted physical examination of an adult patient E.U14 Recognize life-threatening health conditions E.U16. Plan diagnostic, therapeutic and prophylactic procedures E.U32. Plan specialist consultations E.U20. Qualify the patient for home and hospital treatment
G.S2	E.U17. Analyze the possible side effects of individual drugs and their interactions E.U38. Keep the patient's medical records

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING <i>(non-compulsory)</i>	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	

K1	D.W6 The importance of verbal and non-verbal communication in the proces of communicating with the patient and the concept of trust in the interaction with the patient
K2	
Skills– Graduate is able to:	
S1	E.U29 Perform basic medical procedures including: body temperaturę measurement (superficial and deep), pulse measurement, non-invasive pressure measurement
S2	
Social Competencies – Graduate is ready for:	
SC1	Acts for the patient’s sake as his priority
SC2	Able to establish and maintain a deep and respectful contact with the patient.

6. CLASSES		
Form of class	Class contents	Effects of Learning
Lectures	L1. Organization of organ procurement and sharing in Poland. L2 Surgical complications in transplant recipients L3. Transplantation of heart, transplantation of lungs. L4. Regenerative medicine. L5. Transplant tolerance. L6. Current problems of transplantology.	F.W15, G.W9. F.W14 F.W14 E.W21, E.W22 F.W15, G.W9.m E.W21 E.W22
Seminars	S1. Organ procurement, evaluation and selection of donors. Organ preservation. S2. Qualification to kidney transplantation. S3. Qualification to liver transplantation. S4-5. Liver transplantation- surgical techniques and surgical complications. S6-7 Cardiological, metabolic and hematological complications after solid organ transplantation. S8. Malignancies in solid organ recipients. S9-10. Principles of immunosuppressive therapy in organ transplantation. S11-12. Transplant rejection and ther pathologies evolving in solid organ transplants. S13. Transplantation from living donor. S14-15 Infectious complications after solid organ transplantation. S16. Transplantation of pancreas and pancreatic islets.	F.W15, G.W9. E.W7. E.W7. F.W14 E.W7 E.W7 C.W39 E.W21., E.W22 F.W14, G.W9 E.W7. E.W22

Clinical classes	S17. Post-transplant management of liver transplant recipients.	E.W7, E.W22
	S18-19. Post-transplant management of kidney transplant recipients.	E.W7, E.W22
	C1-12 – clinical rounds, individual cases analysis in the department	
	C13 – passive participation in transplanted organ biopsy	
	C14-15 – passive/active participation in out-patients consultations	
		E.U1, E.U3, E.U7, E.U14, E.U16, E.U17, E.U32, E.U20, E.U38, D.U15

7. LITERATURE
Obligatory
Handbook of kidney Transplantation By Gabriel M. Danovitch, Lippincott Williams& Wilkins 2017
Supplementary
Textbook of Organ Transplantation Set, Wiley-Blackwell 2014 Allan D Kirk, Stuart J. Knechtle, Christian P. Larsen et al.

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
<i>e.g. G.K1, G.S1, K1</i>	<i>This field defines the methods used for grading students e.g. pop quiz, test, written report etc.</i>	<i>e.g. threshold number of points</i>
E.U1, E.U3, E.U7 E.U12, E.U14 E.U16, E.U17 E.U20 B.W21, B.W24, EW1, E.W7, D.U15, C.U17, E.U17	Continuous assessment during the course of the classes, presence and active participation in the clinical rounds. Based on sick leave one day absenteeism is allowed, the remaining ones must be worked off with another group. Fifteen questions MCQ test	9 points – 2.0 (failed) 10 points – 3.0 (satisfactory) 11 points – 3.5 (rather good) 12 points – 4.0 (good) 13 points – 4.5 (more than good) 14-15 points – 5.0 (very good)

9. ADDITIONAL INFORMATION (*information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club*)

1. Duration of the transplantology course: 1 week (from Monday to Friday).
2. Realization of the program will be based on seminars presenting the current state of knowledge in specific subject and practical classes in clinical wards and out-patients clinics
3. Classes start at 8.00.
4. During the course it is possible to be absent only once.
5. Students are expected to have their own lab coat, stethoscope, student's ID, shoes.
6. The student participate in classes (seminars and practice) only with the group. Possible group change is allowed in exceptional, justified situations and requires individual approval.
7. If a student has two or more absences must make up for absences with another group. Only then can take the test with another group.
8. All student information is provided on an ongoing basis on the Clinic's website
www.klinikamedycynytransplantacyjnej.wum.edu.pl
9. The student is obliged to follow the Medical University of Warsaw Regulations (available on the University's website).
10. Address: Department of Transplantation Medicine, Nephrology and Internal Diseases, 59 Nowogrodzka St, 02-006 Warsaw, Pavilion 1A.
11. Contact email address: olga.tronina@wum.edu.pl



Palliative Medicine

1. IMPRINT

Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline (in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)	Medical science
Study Profile (general academic / practical)	General academic
Level of studies (1 st level / 2 nd level / uniform MSc)	Uniform MSc
Form of studies	Full time studies
Type of module / course (obligatory / non-compulsory)	Obligatory
Form of verification of learning outcomes (exam / completion)	Credit
Educational Unit / Educational Units (and address / addresses of unit / units)	Department of Social Medicine and Public Health Zakład Medycyny Społecznej i Zdrowia Publicznego – Pracownia Medycyny Paliatywnej, ul. 3 Oczki Str., 02-007 Warsaw

Head of Educational Unit / Heads of Educational Units	Prof. Aneta Nitsch-Osuch M.D., Ph.D.
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Tomasz Dzierżanowski M.D., Ph.D. (tomasz.dzierzanowski@wum.edu.pl)
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	Tomasz Dzierżanowski M.D., Ph.D. (tomasz.dzierzanowski@wum.edu.pl)
Teachers	Tomasz Dzierżanowski M.D., Ph.D., M.B.A., Agnieszka Kluczna M.D., M.B.A.

2. BASIC INFORMATION			
Year and semester of studies	5th, semester 9	Number of ECTS credits	1.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		0	0
Seminar (S)		18	0.75
Classes (C)		0	0
e-learning (e-L)		0	0
Practical classes (PC)		0	0
Work placement (WP)		0	0
Unassisted student's work			
Preparation for classes and completions		6	0.25

3. COURSE OBJECTIVES	
O1	Understanding of definitions, goals, and philosophy of palliative medicine including ethical aspects.
O2	Skills in diagnosing, prevention, and treatment of pain and other most frequent symptoms in the end-stage incurable chronic disease patients.

O3	Communication skills with the patient and his care-givers, and competencies of empathic, holistic care after the patient and his family.
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4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)

Code and number of effect of learning in accordance with standards of learning (in accordance with appendix to Regulation of Minister of Science and Higher education from 26th of July 2019)	Effects in time
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Knowledge – Graduate* knows and understands:

G.K1– E.W29	knows and understands the principles of diagnosing and therapeutic management of pain (including cancer and other chronic pain) and other most common symptoms in palliative care patients
G.K2 – E.W27 (1, 2, 3), E.W28	knows and understands the causes, symptoms, principles of diagnosing and therapeutic management of the most frequent problems in palliative medicine, including: <ul style="list-style-type: none"> a) symptomatic treatment of the most common symptoms b) management of cachexia; prevention and treatment of bed-sores c) management of the most frequent urgent events in palliative medicine rules of palliative treatment of a patient in the terminal state

Skills– Graduate* is able to:

G.S1 – E.U20	refer a patient to home or in-patient palliative care
G.S2 – E.U21	define states in which expected the length of life, functional performance or patient's preferences limit the use the management recommended for particular diseases; and is able to use the principles of withdrawing/refraining from futile treatment

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)

Number of effect of learning	Effects of learning i time
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Knowledge – Graduate knows and understands:

K1	
K2	

Skills– Graduate is able to:

S1	
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S2	
Social Competencies – Graduate is ready for:	
SC1	acts for the patient's sake as his priority
SC2	observes the patient's intimacy and rights
SC3	is aware of own limitations and the necessity of continuous self-development

6. CLASSES		
Form of class	Class contents	Effects of Learning
Seminar 1-2	Principles and definitions of palliative medicine; qualification for palliative care	E.W29, E.W27, E.W28, E.U20, E.U21 K1, K2, K3
Seminar 3-5	Principles and practical skills of diagnosing and analgesic treatment in cancer and other chronic diseases, based on the recommendations of WHO / ESMO / EAPC; solving clinical cases	E.W29, E.W27 E.U21 K1, K2, K3
Seminar 6-7	Principles of holistic symptomatic management in the end-stage cancer through clinical cases in selected somatic and psychological disorders	E.W29, E.W27, E.W28, E.U20, E.U21 K1, K2, K3
Seminar 8-10	stages of the patient's adaptation to an incurable disease and impending death; practical communication skills of students with the dying person and their family on particular stages of adaptation in the case of an incurable fatal illness	E.W29 K1, K2, K3
Seminar 11-12	palliative care in non-oncological diseases	E.W29, E.W27 E.U21 K1, K2, K3
Seminar 13-14	ethical issues until the end of life (futile / persistent therapy, euthanasia, conditions of a dignified death); doctor's attitude; the ethics of virtues by E. Pellegrino	E.W28 K1, K2, K3
Seminar 15-16	multidimensional aspect of suffering	E.W28 K1, K2
Seminar 17-18	end-of-life care in adult cancer patients	E.W28 K1, K2
self-preparation (materials on the e-learning platform)	diagnosing and treatment of respiratory symptoms in palliative medicine diagnosing and treatment of gastrointestinal symptoms in palliative medicine; diagnosing and treatment of pressure ulcers in palliative medicine emergencies in palliative medicine	E.W29, E.W27 E.U21 K3

7. LITERATURE
Obligatory

- Cherny et al. (Ed.). Oxford Textbook of Palliative Medicine. 5th Edition. Oxford University Press, Oxford, 2018.
- Oxford Handbook of Palliative Care. Oxford University Press (OUP Oxford) 2019, ISBN-13: 9780198745655
- Palliative Care Formulary (PCF6). Pharmaceutical Press, London 2018, ISBN 080701429X (ISBN13: 9780807014295)
- Ciałkowska-Rysz A, Dzierżanowski T (Ed.). Medycyna paliatywna. Termedia Wydawnictwa Medyczne, Poznań 2019. ISBN 978-83-7988-224-3. (*Polish speakers*)

Supplementary

- Elisabeth Kübler-Ross. On death and dying. Routledge, Abington, 2009.
- Frankl Viktor E. Man's Search for Meaning. Random House Lcc Us, 2006, ISBN13: 9780807014295
- Tomasz Dzierżanowski. Brzegi dobrej Rzeki. Multico, Warszawa 2016 (*Polish speakers*)

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
E.W29, E.W27	Multiple-choice test (25 questions)	At least 15 out of the total of 25 points.
E.W29, E.W27, E.W28, K1, K2, K3	Solving of selected cases.	At least 9 points out of the total 21 points; 15 points and more means a very good grade.
E.U20, E.U21, K1, K2, K3	Attendance and active participation in the seminars; groupwork.	Positive assessment of the activity during seminars and positive assessment of the plan of treatment – 10 points.
		The threshold for the completion of the course is 30 points in total.

9. ADDITIONAL INFORMATION (*information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club*)

The course consists of 18 hours of seminars and 6 hours of self-preparation.
 Before attending the classes, a student should repeat basic knowledge on the pharmacology of opioid analgesics.
 Completion of a self-preparation course and test on the e-learning platform before face-to-face classes is highly recommended.
 The subject is credited upon active attendance in all seminars, positive completion of tests, and collecting at least 30 out of 50 available points.



Neonatology

1. IMPRINT

Academic Year	2021/2022
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2015)</i>	Medical science
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	Full time studies
Type of module / course <i>(obligatory / non-compulsory)</i>	obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	completion
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Department of Neonatology and Neonatal Intensive Care Medical University of Warsaw 1W63 00-315 Warsaw, St Karowa 2 Tel 22 59558155 e-mail neonatologia@poczta.szpitalkarowa.pl

Head of Educational Unit / Heads of Educational Units	Associate Professor Renata Bokiniec MD PhD
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Joanna Puskarz- Gąsowska MD PhD Tel 225966155/ 225966136 jpuskarz@wum.edu.pl
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	Joanna Puskarz- Gąsowska MD PhD
Teachers	Associate Professor Renata Bokiniec MD, PhD, Joanna Puskarz-Gąsowska MD PhD, Dariusz Madajczak MD, PhD, Joanna Seliga – Siwecka MD, PhD, Agata Wójcik-Sęp MD, Agnieszka Góralska MD, Ariel Płotko MD,

2. INFORMACJE PODSTAWOWE

BASIC INFORMATION	5th year, IX & X semester	Number of ECTS credits	1
Year and semester of studies	Number of hours	ECTS credits calculation	
FORMS OF CLASSES			
Contacting hours with academic teacher			
Lecture (L)			
Seminar (S)	5	0,3	
Classes (C)	10	0,5	
e-learning (e-L)			
Practical classes (PC)			
Work placement (WP)			
Unassisted student's work			
Preparation for classes and completions	8	0,2	

3. COURSE OBJECTIVES

C1	Acquiring skills in examining a newborn and getting acquainted with issues in the field of physiology and pathology of the neonatal period.
C2	Principles of neonatal life support and postpartum resuscitation of the newborn
C3	Know the basic complications of prematurity

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING (*concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study*)

Code and number of effect of learning in accordance with standards of learning (in accordance with appendix to the Regulation of Minister of Science and Higher Education from 26th of July 2019)	Effects in time
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Knowledge – Graduate* knows and understands:

E.W1.	environmental and epidemiological conditions of the most common illness
E.W2.	rules of nutrition of healthy and sick children, protective vaccinations and routine children's health checks
E.W3.	3) acute and chronic diseases of the upper and lower respiratory tract, congenital defects of the respiratory tract, tuberculosis, cystic fibrosis, asthma, allergic rhinitis, urticaria, anaphylactic shock, angioedema,
E.W5.	basic methods of diagnosing and treating the foetus
E.W6.	the most common life threatening conditions in children and the management of these conditions
F.W6.	indications for and principles of use of intensive care
F.W7.	applicable recommendations concerning resuscitation of newborns, children and adults
F.W10.	the issues of contemporary imaging studies in neonatology
G.W9.	legal regulations concerning transplantations, artificial reproduction, abortion, aesthetic procedures, palliative treatment and mental diseases;

Skills– Graduate* is able to:

E.U2.	collect medical history from a child and its family;
E.U4.	conduct a physical examination of children of any age
E.U8.	assess the condition of newborns in the APGAR scale and assess their maturity, examine the newborn reflexes
E.U14.	recognize the states of immediate threat to the life of the newborn
E.U12.	perform the differential diagnosis of the most common diseases in adults and children
E.U14.	recognise immediate threats to life
E.U16.	plan diagnostic, therapeutic and preventive treatment

E.U20.	qualify patients for home and hospital treatment
E.U24	interpret laboratory test results with the identification of reasons for deviation
E.U27.	qualify the patient for vaccinations in the neonatal period
F.U11.	follow the algorithm of advanced life support;

In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)	
Number of effect of learning	Number of effect of learning

Social Competencies – Graduate is ready for:

1	establishing and maintaining deep and respectful contact with the patient and the child's mother, as well as showing understanding for worldview and cultural differences
2	be guided by the good of the patient;
3	observance of medical confidentiality and patient rights;
4	taking actions towards the patient based on ethical principles, with the awareness of social conditions and limitations resulting from the disease;
5	noticing and recognizing own limitations and self-assessment of deficits and educational needs
9	implementing the principles of professional camaraderie and cooperation in a team of specialists, including representatives of other medical professions, also in a multicultural and multinational environment
8	formulating conclusions from own measurements or observations;
11	accepting responsibility for decisions made in the course of professional activity, including in terms of one's own safety and that of others.

6. CLASSES		
Class contents	Class contents	Class contents
Seminars	Adaptation to extrauterin life Principles of examining a newborn. Basics of nutrition of a healthy and sick newborn Pre and postnatal diagnostic. Management of a newborn with a congenital defect. Complications of prematurity. Neonatal Jaundice. Infections of the neonatal period. Ethical problems in neonatology. Perinatal hypoxia, seizures and neurological problems. Newborn life support after birth. Ultrasound and X-ray diagnostics in neonatology.	E.W1. E.W2. E.W3. E.W5. E.W6. F.W6. F.W7. F.W10. G.W9.

Practical classes	Practical classes at Neonatal Intensive Care, Speciaj Care Unit, Maternity Unit, Delivery room Resuscitation classes in Medical Simulation Center.	E.U2. E.U4. E.U8. E.U14. E.U12. E.U24. E.U16. E.U20. E.U27. F.U11.
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7. LITERATURE
Obligatory
Neonatology, 8th Edition, Tricia Lacy Gomella
Supplementary:
Care of the high-risk neonate- Klaus and Fanaroff's

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Code of the course effect of learning	Code of the course effect of learning
E.W1. E.W2. E.W3. E.W5. E.W6. F.W6. F.W7. F.W10. G.W9.	Sem	<i>Written test</i>
E.U2. E.U4. E.U8. E.U14. E.U12. E.U24. E.U16. E.U20. E.U27. F.U11.	C	Disease history, epicrisis, observations, recommendations, oral exercise report

Social Competencies:	S, C	Oral exercise report an observations
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9. ADDITIONAL INFORMATION (*information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club*)

1. During the classes the following are necessary: medical scrubs, change of shoes, stethoscope
2. The class lasts 5 days; 4 days in the Neonatology Department, classes begin at 9:00 a.m., 1 day at the Medical Simulation Center, classes begin at 8:30.
3. The scope of knowledge applicable at the final test is included in the topics of classes during seminars and exercises, and /ore materials on the e-learning platform. Completion of the course is in writing test. Completing the block requires active participation in all bedside activities and seminars (including preparation for seminars) and passing a test.
The condition for admission to the colloquium is a positive evaluation of the clinical classes and the completion of possible absences. Unauthorized absence from the test results in failure to pass the course. Obtaining a fail mark in the test requires correction in the same form (written test) with the next groups within the free group lesson.
4. Absences from seminars are counted in the form of an oral answer from the abandoned topic (until the day of the colloquium); absences from bedside classes are made up in the form of additional clinical duty between 09:30 and 12:30 on public holidays. Absence longer than one day makes it necessary to make up the whole block again. Unusual cases are settled individually.
5. Please do not be late for classes. A delay of more than 15 minutes is considered an absence.
6. Students interested in neonatology can participate in the activities of the Students' Science Club in the Clinic.
<https://web.facebook.com/sknnoworodki>;
7. On the last day of classes, after the test, students complete an anonymous internal questionnaire summarizing the block of neonatology classes.
8. All student information is provided on an ongoing basis on the Clinic's website
www.klinikaneonatologii.wum.edu.pl

Schedule of classes in Medical Simulation Center at 1a Banacha St.:

Gr 1: 29.11.2021 at 08:00 - 14:00
Gr 2: 16.11.2021 at 14:00 - 20:00
Gr 3: 04.01.2022 at 14:00 - 20:00
Gr 4: 13.12.2021 at 08:00 - 14:00

Signature of Head of Department

Signature of Person responsible for syllabus