



**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/)

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6th YEAR CURRICULUM

6-year program

SPECIALTY CHOSEN BY A STUDENT

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:

Zuzanna Górna – 6 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

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PSYCHIATRY - specialty chosen by a student

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>	II Klinika Psychiatryczna / II Department of Psychiatry ul. Kondratowicza 8, 03-242 Warszawa phone: (+48 22) 326 58 92; e-mail: psychiatria@brodnowski.pl

Head of Educational Unit / Heads of Educational Units	Prof. dr. hab. med. Andrzej Kokoszka
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Dr Marcin Obrębski Mail: mobrebski@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. dr. hab. med. Andrzej Kokoszka Mail: andrzej.kokoszka@wum.edu.pl
Teachers	Prof. dr hab. med. Andrzej Kokoszka Dr n. med. Aleksandra Jodko-Modlińska Dr n. o zdr. Marcin Obrębski Lek. med. Magdalena Grusiecka-Stańczyk Lek. med. Joanna Mikulska Lek. med. Wiktor Buczek Lek. Natalia Chłopecka Lek. Sebastian Koterwa Lek. Matija Mitric Lek. Radosław Napora Lek. Natalia Olejnik Lek. Sasza Rychlica Lek. Mikołaj Rejewski Lek. Przemysław Gałązka Lek. Joanna Szczerba Mgr Monika Gawłowicz Mgr Joanna Kielan Mgr Joanna Mikuła Mgr Renata Pionke Mgr Karolina Ciesielka Mgr Agnieszka Twarowska

2. BASIC INFORMATION				
Year and semester of studies	VI year II semester		Number of ECTS credits	6.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation	
Contacting hours with academic teacher				
Lecture (L)		0	0	
Seminar (S)		15	1.5	
Classes (C)		75	2.5	
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	2

3. COURSE OBJECTIVES	
O1	Acquiring knowledge and skills about investigation of sexuality of patients. Methods of sexual dysfunction screening and motivating for sexual therapy.
O2	Agitation and delirium management, according to current international guidelines.
O3	Improvement of patients adherence to recommended treatment by strategies of empowerment
O4	Management with mental disorders in general practice
O5	Contemporary models of the organization of mental health centers

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.W1.	knows the environmental and epidemiological determinants of the most common mental illnesses
E.W10.	knows and understands the basic principles of pharmacotherapy in the elderly
E.W11.	knows and understands the risks associated with hospitalization of the elderly
E.W12.	knows and understands the basic principles of organizing elderly care as well as the burdens of being a caregiver for an elderly person
E.W15.	knows the basic concepts in the pathogenesis of mental disorders
E.W16.	knows the general psychiatric symptomatology and the principles of classifying mental disorders according to the main classification systems
E.W17.	knows the symptoms as well as principles of diagnosis and therapeutic treatment of the most common mental illnesses, including:

	a) schizophrenia b) affective and adaptive disorders c) eating disorders d) disorders associated with the use of psychoactive substances
E.W18.	knows the principles of diagnosis of and procedure for dealing with psychiatric emergencies
E.W19.	knows the characteristics of mental disorders and of treating these disorders in old age
E.W20.	knows the symptoms of mental disorders in the course of somatic diseases and their impact on the course of the underlying disease as well as the prognosis and principles of treating these disorders
E.W21.	has knowledge of human sexuality and of the basic disorders associated with it
E.W22.	is familiar with provisions relating to mental health care; with particular emphasis on the rules of admission to psychiatric hospitals
E.W38	is familiar with the theoretical and practical fundamentals of laboratory diagnosis in psychiatry
E.W39.	knows and understands the capabilities and limitations of laboratory testing in psychiatric emergencies

Skills– Graduate* is able to:

E.U5.	carries out a psychiatric examination
E.U12.	performs a differential diagnosis of the most common mental illnesses in adults
E.U13.	assesses and describes the patient's somatic and psychological state
E.U14.	recognizes conditions that pose a direct threat to life in the course of mental disorders
E.U15.	recognizes states under the influence of alcohol, drugs and other stimulants
E.U16.	plans diagnostic, therapeutic and preventive procedures regarding mental disorders
E.U17.	analyzes the possible adverse effects of particular drugs and the interactions between them
E.U18.	proposes that existing therapeutic guidelines and other treatment methods be individualized if standard therapy is ineffective or contraindicated
E.U19.	recognizes the signs of drug dependency and proposes treatment
E.U20.	decides that a given patient is eligible for home or hospital treatment
E.U23.	proposes a rehabilitation program for the most common diseases
E.U24.	interprets the results of laboratory tests and identifies the causes of deviations
E.U32.	plans specialist consultations
E.U38.	keeps a 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	Has a basic knowledge about different types of psychotherapy
K2	Understands the impact of psychological factors on patient adherence to recommended treatment
Skills– Graduate is able to:	
S1	Establishes ethical and professional relations with patients suffering from mental disorders
S2	Increases patient motivation and adherence to treatment
Social Competencies – Graduate is ready for:	
SC1	Presents diagnosis of a patient and discusses it with other students
SC2	

6. CLASSES		
Form of class	Class contents	Effects of Learning
<u>Seminar 1 – (3 hours)</u>	<ol style="list-style-type: none"> Sexuality and its assessment. Screening tools of mental disorders in general practice Psychoeducation and shaping motivation for a psychiatric treatment in general practice 	<i>E.W16, E.W21</i>
<u>Seminar 2 – (3 hours)</u>	<ol style="list-style-type: none"> Current guidelines of management with agitation and delirium Management with patients with personality disorders in general practice 	<i>E.W16</i>
<u>Seminar 3 – (3 hours)</u>	<ol style="list-style-type: none"> Increasing the patient adherence to recommended treatment according to rules of empowerment 	<i>E.W22</i>
<u>Seminar 4 – (3 hours.)</u>	<ol style="list-style-type: none"> Management with patients with mental disorders in general practice 	<i>E.W16, E.W20</i>
<u>Seminar 5 – (3 hours.)</u>	<ol style="list-style-type: none"> Environmental psychiatry rules and challenges 	<i>E.W22</i>
<u>Classes 1 – 12 - (75 hours.)</u>	<ol style="list-style-type: none"> Understanding of a patient with mental disorder from general practitioner perspective – case studies – 10 days. Collaboration of general practitioner with a psychologist – 2 days 	<i>E.U5, E.U12, E.U13, E.U14, E.U15, E.U16, E.U18, E.U20, E.U23, E.U24, E.U32, E.U38</i>

7. LITERATURE

Obligatory

Supplementary

1. Sadock B.J., Sadock V.A. Ruitz P. Kaplan and Sadock's Synopsis of Psychiatry: Behavioral Sciences/Clinical Psychiatry. Wolters Kluwer, 2015
2. Meyer, R. G., Chapman, L. K., and Weaver, C. M. Case Studies in Abnormal Behavior. 9th ed. 2014
3. Barnhill, J.W. (DSM-5 Clinical Cases, American Psychiatric Publishing, Incorporated, 2014

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
E.W16-E.W22	<i>Essay prepared by students about practical conclusions from seminars on the use of psychiatric knowledge in an aspect of general practice chosen by students.</i>	Assessment by two independent teachers
E.U5-E.U38	Written description of the management with two different mental disorders in general practice, presented	Assessment by two independent teachers

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 and seminars takes place at:

DREWNICA= Drownica Hospital, - ul. Rychlińskiego 1, Ząbki, meeting at main entrance to the new building.

KONDRATOWICZA 8= Brodnowski Hospital, ul. Kondratowicza 8, Building G, 4th floor

SUWALSKA 11= Brodnowski Hospital, Daily Psychiatric Ward, ul. Suwalska 11

In case of epidemiological restrictions = ONLINE

The first seminar takes place in lecture hall in Brodnowski Hospital, ul. Kondratowicza 8, pawilon "G".

The detailed program of seminars and classes will be presented a during the first seminar



Obstetrics & Gynaecology – Specialty

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 and practical
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)	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

Head of Educational Unit / Heads of Educational Units	Prof. Włodzimierz Sawicki, MD, PhD
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; Szymon Bębenek, MD; Mateusz Stępień, MD; Mateusz Kryczka, 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	VI year, 12 semester		Number of ECTS credits	6.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation	
Contacting hours with academic teacher				
Lecture (L)				
Seminar (S)		15	0.5	
Classes (C)		75	2.75	

e-learning (e-L)		
Practical classes (PC)		
Work placement (WP)		
Unassisted student's work		
Preparation for classes and completions	75	2.75

3. COURSE OBJECTIVES	
O1	To obtain the theoretical knowledge on physiology and pathology of the pregnancy and the delivery as well as physiopathology neonatal period.
O2	To obtain practical ability of gynecological examination and examination of pregnant patient and patient in labour.
O3	To obtain practical ability in management of normal delivery.
O4	To gain basic information about gynaecologic diseases and diagnosis and treatment of female genital organs malignancy.
O5	To know screening of gynaecologic cancers.

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, F.W9.5, F.U18. Student knows menstrual cycle, its disorders and contraception methods.
G.K5	F.W9.4, F.W9.7 Student is able to recognize the symptoms and know the methods of diagnosis and therapy of inflammation cancer and other pathologies of female genital organs.
G.K6	F.W9.6, F.W9.7 Student is able to recognize menopause and its disorders.

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.

* 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
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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
SEMINARS (S)	S1- Pregnancy, labour and puerperium – practical guidelines	G.K1, G.S1, G.S3
	S2- Pregnancy in diabetic woman. Complication of hypertension in pregnancy. Infection in pregnancy.	G.K1, G.S2
	S3- Uterine function disorders – management. Induction of labour.	G.K1-G.K3, G.S2
	S4- Treatment of internal diseases in pregnancy	G.K1- G.K3, G.S2
	S5- Practical guidelines of abortion	G.K1-G.K3
	S6- Premature labour in practice.	G.S2
	S7- Life threatening and emergency cases in obstetrics.	G.K1, G.S2
	S8- Infections and inflammations of the female genital tract – diagnosis and treatment Acute diseases of the abdominal cavity in gynaecology - management.	G.K2

	S9- Endocrinological pathologies – diagnosis and treatment S10- Congenital disorders of female genital organs. Vaginal and uterine prolapse. Urinary incontinence in women-diagnosis and treatment. S11- Couple infertility – methods of treatment. Contraception. S12- Bleeding as frequent gynecological symptom S13- Pathology of the uterine cervix. Cervical cancer. S14- The role of gynaecologist in diagnosis and treatment of breast diseases S15- Tumor in abdominal cavity – diagnosis and treatment	G.K1, G.K3 G.K2 G.K4 G.K1- G.K3 G.K2 G.K2 G.K2
Classes (C)	Clinical practice in wards, practical classes with phantom demonstrations	G.S1- G.S3
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.

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>
G.K1- G.K6	Student's presence confirmed in the student's card (S+PC)	Acceptable understanding of learning outcomes
G.S1 – G.S3	Student's presence confirmed in the student's card (PC)	Acceptable understanding of learning outcomes

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. Initial requirements for student entering specialty:

- Student has knowledge of basic information connected with obstetrics and gynaecology.
- Student is able to take medical history, perform physical examination and interpret laboratory test findings.
- Student has knowledge of pre-medical subjects (anatomy, histology, physiology), clinical pharmacology, internal diseases.



Surgery – Specialty

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>	Non-compulsory
Form of verification of learning outcomes <i>(exam / completion)</i>	completion
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	2nd Department of General, Vascular and Oncological Surgery 19/25 Stępińska St., 00-739 Warsaw

Head of Educational Unit / Heads of Educational Units	Mariusz Frączek MD, PhD
Course coordinator (title, First Name, Last Name, contact)	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	6 th year, XII spring semester	Number of ECTS credits	6.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		0	0
Seminar (S)		15	1
Classes (C)		75	5
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 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, 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 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
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- Endoscopy of the gastrointestinal tract S2- Peritoneal diseases. S3- Liver surgery S4- Inflammatory bowel diseases S5- Intensive care in general surgery S6- The surgery of thyroid and parathyroid gland. Goiter. S7- Surgery of the inferior vena cava S8- Extracranial carotid arteries surgery S9- Peripheral arterial insufficiency. S10- Rectal cancer. Anal cancer. S11- Diverticulitis	

	S12- Minor surgery procedures S13- Oesophageal cancer S14- Benign rectal disease.	
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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, S1-S15	Students are assessed on the grounds of their regular attendance at seminars and active participation in bedside classes	Attendance

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 - 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>



Anesthesiology and Intensive Care (chosen specialty)

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>	<ul style="list-style-type: none"> - 1st Department of Anesthesiology and Intensive Care WUM Lindleya 4, 02-005 Warsaw, Poland www.anestezjologia1.wum.edu.pl - 2nd Department of Anesthesiology and Intensive Care WUM Banacha 1A, 02-097 Warsaw, Poland Kait.csk@uckwum.pl

Head of Educational Unit / Heads of Educational Units	dr hab. n. med. Janusz Trzebicki dr hab. n. med. Paweł Andruszkiewicz
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Marek Janiak MD marek.janiak@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>)	Marek Janiak MD +48 22 502 1721 marek.janiak@wum.edu.pl
Teachers	1st Department of Anesthesiology and Intensive Care WUM: Lidia Jureczko MD PhD, Beata Błaszczyk MD PhD, Marcin Kołacz MD PhD, Rafał Kowalczyk MD PhD, Jan Biławicz MD, Paweł Zatorski MD PhD, Grzegorz Górniewski MD PhD, Agata Adamczyk MD, Jan Pluta MD, Piotr Mieszczański MD, Jan Pluta MD, Marek Janiak MD, Małgorzata Gaworczyk MD, Marcin Motyka MD, Maja Mytyk MD 2nd Department of Anesthesiology and Intensive Care WUM: Wojciech Romanik MD, Michał Rykowski MD, Aleksandra Święch-Zarzycka MD, Łukasz Wróblewski MD

2. BASIC INFORMATION

Year and semester of studies	VI year, 12 semester	Number of ECTS credits	6.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)			
Seminar (S)		15	1.5
Classes (C)		75	3
e-learning (e-L)			
Practical classes (PC)			
Work placement (WP)			
Unassisted student's work			
Preparation for classes and completions		30	1.5

3. COURSE OBJECTIVES

O1	Deepen knowledge on general and regional anesthesia.
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O2	Educate in basics of pain management in different clinical scenarios.
O3	Recognize the student in intensive care management.
O4	Educate in the use of point of care ultrasound in anesthesia and intensive care.
O5	Educate the student in management of acute hemorrhage and hemostatic disorders.

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 July 2019)</i>	Effects in time
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Knowledge – Graduate* knows and understands:

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 anaesthesia 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.W15.	principles of suspecting and recognising 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 individualisation of applicable therapeutic guidelines and alternative treatment in the case of ineffectiveness or contraindications to standard therapy.
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.U29.	perform the basic medical procedures, including: 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.	identify patients in agony and confirm death.
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.

* 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:	
D.U13.	respect ethical standards in professional activities.
D.U15.	observe patient's rights.
Social Competencies – Graduate is ready for:	

K1	Developing and maintaining a deep and respectful contact with a patient, demonstrating understanding of differences in belief and culture.
K2	Being guided by the patients wellbeing, placing it firstline.
K3	Keeping doctor-patient confidentiality and patient's rights
K4	Making decisions for patients based on ethical principles, with the understanding of their social background and limitations resulting from the disease.
K10	Formulating opinions regarding different aspects of professional activity.
K11	Taking responsibility for decisions made during professional activities, inclusive of self and others safety.

6. CLASSES		
Form of class	Class contents	Effects of Learning
SEMINAR		
S1	Chosen novelties in anesthesia and intensive care.	E.W29., E.W41., F.W4., F.W6.
S2	Management of patient in the intensive unit. Respiratory failure, mechanical ventilation. Septic shock.	F.W6, C.W29., E.U24., E.U16.
S3	Novel methods of hemostatic assessment. Management in massive hemorrhage. Basics of fluid therapy. Feeding in ITU.	E.W41., C.W29., E.U21., E.U25.
S4	Use of point of care ultrasound in anesthesia and intensive care.	F.U10., E.U16., F.W6.
CLASSES		
C1	Practice in the Intensive Care Unit (ITU).	E.U37., E.U32., E.U33., E.U34., E.U37., E.U38., F.U5., F.U10., F.U11., F.U21., E.U29
C2	Practice in operational theatres.	F.U12., F.W5., E.W41
C3	Practice in the postoperative or recovery areas.	E.W29., F.W4., F.W5., E.U13., E.U16., E.U18., D.U13., D.U15
C4	On-call shift.	E.U24., F.U21., F.W15., C.W29., E.U16., D.U13., D.U15

7. LITERATURE
Obligatory
<ol style="list-style-type: none"> 1. "Anesthesia Student Survival Guide" Jesse M Ehrenfeld; Scott Segal; Richard D Urman 2010 (available via biblioteka.wum.edu.pl) 2. "Basic Clinical Anesthesia" Paul K Sikka; Shawn T Beaman; James A Street 2015 (available via biblioteka.wum.edu.pl) 3. "Essentials of regional anesthesia" chosen chapters Kaye 2015 (available via biblioteka.wum.edu.pl) 4. Advanced Life Support ERC 2020 guidelines.
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.W29, E.W41, F.W4, F.W5, F.W6, 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.U13, D.U15, K1, K2, K3, K4, K10, K11	Student card – the student activities will be noted in the physical card	Presence in all classes confirmed in the student card. Final test (MCQ) 15 questions.

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 first day all students will report to the 1st Department of Anesthesiology and Intensive Care secretariat, according to the schedule given by the deanery.

For the practical classes please report with a white apron, theatre footwear and a stethoscope.

Punctuality is mandatory.

In case of absence, a relevant and confirmed reason must be given. All major issues should be reported to the course coordinator or Head of Academic Unit.

Results from the test will be awarded the following results:

- 2.0 (fail) 0-7 points in test
- 3.0 (satisfactory) 8-9 points
- 3.5 (rather good) 10 points
- 4.0 (good) 11-12 points
- 4.5 (more than good) 13 points
- 5.0 (very good) 14-15 points

To pass the subject, it is mandatory to attend the classes and receive at least 3.0 from the test.



Pediatrics – specialty

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 Paediatric Cardiology and General Paediatrics (2M6) Department of Neonatology Pediatric Hospital 63a Żwirki i Wigury St., 02-091 Warsaw, tel (+48 22) 31 79 588

Head of Educational Unit / Heads of Educational Units	Professor Bożena Werner, MD, PhD
Course coordinator (title, First Name, Last Name, contact)	Radosław Pietrzak, MD, PhD, e-mail: radoslaw.pietrzak@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)	Radosław Pietrzak, MD, PhD
Teachers	<p>Professor Bożena Werner, MD, PhD e-mail: bozena.werner@wum.edu.pl</p> <p>Beata Kucińska, MD PhD; beata.kucinska@wum.edu.pl</p> <p>Radosław Pietrzak, MD PhD; radoslaw.pietrzak@wum.edu.pl</p> <p>Halszka Kamińska, MD PhD; halszka.kaminska@wum.edu.pl</p> <p>Tomasz Książczyk, MD; tomasz.ksiazczyk@wum.edu.pl</p> <p>Anna Chanas, MD; anna.chanas@uckwum.pl</p> <p>Katarzyna Łuczak-Woźniak, MD; katarzyna.luczak-wozniak@wum.edu.pl</p> <p>Agnieszka Pskit-Hanuszczak, MD; agnieszka.pskit@uckwum.pl</p> <p>Ewa Smereczyńska-Wierzbicka, MD; ewa.wierzbicka@uckwum.pl</p> <p>Małgorzata Ludzia, MD; mludzia@wum.edu.pl</p> <p>Anna Rożnowska-Wójtowicz, MD; anna.wojtowicz@uckwum.pl</p> <p>Margaret Chudyk, MD; margaret.chudyk@uckwum.pl</p> <p>Paulina Dobkowska Wawrzacz, MD; paulina.dobkowska@uckwum.pl</p> <p>Mateusz Puchalski, MD; mateusz.puczalski@uckwum.pl</p> <p>Klaudia Obsznajczyk, MD; klaudia.obsznajczyk@uckwum.pl</p> <p>Izabela Janiec, MD PhD; izabela.janiec@uckwum.pl</p>

2. BASIC INFORMATION			
Year and semester of studies	6 th year 2 semester	Number of ECTS credits	6.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		0	
Seminar (S)		15	1,5
Classes (C)		75	3,5
e-learning (e-L)		0	
Practical classes (PC)		0	
Work placement (WP)		0	
Unassisted student's work			

Preparation for classes and completions	50	1
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3. COURSE OBJECTIVES	
O1	Knowledge about the principles of the assessment, differential diagnosis and treatment of the diseases in paediatrics and pediatric cardiology
O2	Principles of diagnostic and therapeutic procedures in pediatrics
O3	Rules of conduct in emergency situations in pediatrics

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

Knowledge – Graduate* knows and understands:

G.K1/EW1	Knowledge of environmental and epidemiological circumstances of the most often seen diseases in General Pediatrics
G.K2/EW3	Knowledge of etiology, signs, symptoms, diagnosis, treatment, and prophylaxis of most common paediatric diseases
G.K3/EW6	Rules of conduct in emergency situations in pediatrics.

Skills– Graduate* is able to:

G.S1/EU12	Ability to differentiate abnormal findings in anamnesis and physical examination in paediatrics
G.S2/EU14	Ability to assess life threatening conditions in paediatrics
G.S3/EU16	Ability to plan diagnostic pathway and therapeutic and prophylactic procedures in basic paediatric diseases
G.S4/EU20	Ability to qualification to in-patient treatment in paediatrics.

* 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:

EW2	Knowledge of special circumstances of vaccinations for the paediatric diseases
AW.1	Anatomical, histological and embryological terminology in English
DW.6	The importance of verbal and non-verbal communication in the process of communication with the patient and the concept of trust in interaction with the patient.
CW9	Knowledge of basic rules in genetical diagnostic procedures in pediatrics.
EW.5	Knowledge of basic rules of diagnostic procedures in fetal cardiology

Skills– Graduate is able to:

EU2	Ability to make medical history with a child and his family
EU4	Ability to perform physical examination in a child of every age.
EU13	Ability to evaluate the level of consciousness and general state in children in various age
EU29	Ability to perform vital signs monitoring including pulseoximetry , ECG assessment , cardioversion and defibrillation.

Social Competencies – Graduate is ready for:

SC1	The student is ready to establish and maintain deep and respectful contact with the patient.
SC2	The student is guided by the good of the patient, putting them first.
SC3	The student respects medical confidentiality and patient's rights.
SC4	The student is aware of their own limitations and the ability to constantly improve their education.

6. CLASSES		
Form of class	Class contents	Effects of Learning
Seminars	<p>1/ Pulmonary Hypertension.</p> <p>2/ Interventions in cardiology</p> <p>3/ Channelopathies in children</p> <p>4/ Diagnostic and therapeutical approach to the chosen congenital heart disease based on the practical cases.</p> <p>5/ Diagnostic and therapeutical approach to the chosen arrhythmia based on the practical cases.</p>	<p>EW1</p> <p>EW2</p> <p>EW3</p> <p>EW6</p> <p>AW1</p> <p>DW6</p> <p>CW9</p>

Practical classes	<p><i>BED SIDE CALSSESS</i></p> <p><i>Training of practical issues connected with making history, signs and symptoms assessment as well as diagnosis in paediatrics</i></p>	EU2 EU4 EU13 EU29 SC1 SC2 SC3 SC4 CW9
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7. LITERATURE
<ol style="list-style-type: none"> 1. <i>Nelson Essentials of Pediatrics. Marc dante KJ, Kliegman RM, Elsevier Saunders,</i> 2. <i>Park's Pediatric Cardiology for Practitioners, Myung K. Park, MD, FAAP, FACC</i>
Supplementary
<ol style="list-style-type: none"> 1. <i>Nelson Textbook of Pediatrics. Kliegman RM, Stanton BMD, Elsevier Saunders.</i>

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>
U25	The correct execution of examinations on bedside classes	
ALL	Final test	2.0 (failed) <9 points 3.0 (satisfactory) 9,10 points 3.5 (rather good) 11 points 4.0 (good) 12,13 points 4.5 (more than good) 14 points 5.0 (very good) 15,16 points

<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)</p> <p>It is mandatory to change shoes and have a white coat. Basic knowledge of heart anatomy is required, as well as entry knowledge for a specific seminar. There may be tests or pre-seminar checkups.</p> <p>Medical confidentiality applies to students undergoing exercises at the Clinic (this applies to working at the patient's bed, as well as all medical records of the patient). Students are not allowed to provide information about the patient's condition, test results and the patient's treatment. All discussions about the patient (diagnosis, treatment, prognosis) may take place only without the patient's participation outside the patient's room, without the participation of other people.</p> <p>It is strictly forbidden to take photos and record videos in any way showing patients, medical procedures or medical documentation.</p>



OPHTHALMOLOGY - specialty chosen by a student

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 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	VI year, summer semester	Number of ECTS credits	6
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		0	
Seminar (S)		15	1,5
Classes (C)		75	4,5
e-learning (e-L)		0	
Practical classes (PC)		0	
Work placement (WP)		0	
Unassisted student's work			
Preparation for classes and completions		10	

3. COURSE OBJECTIVES

O1	Improving the knowledge of eye diseases, novel forms of treatment in ophthalmology (gene therapy, clinical trials)
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O2	Practical application of acquired knowledge in the ophthalmology
O3	Further improving of practical skills in the field of ophthalmology

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.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	indications, contraindications and preparation of patients for particular types of imaging examinations and contraindications to the use of contrast agents;
F.W13 p.3	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
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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
Seminars	<p>1. Theoretical seminars from according to the plan:</p> <p>S1 – Refractive errors, autorefractometry, the basics of spectacle correction and contact lenses</p> <p>S2 – Ophthalmic examination step by step</p> <p>S3 - The use of OCT in ophthalmology</p> <p>S4 - Oculoplastics and orbit surgeries - basics</p> <p>S5 - Eye injuries - classification, symptoms, diagnosis and management</p> <p>S6 – Eye emergency - presentation of cases</p> <p>S7 – Cataract: premium lenses inc. multifocal IOL</p> <p>S8 – Keratoconus – most common ectatic disease</p> <p>S9 - Infectious diseases of the eye, novel forms of the treatment</p> <p>S10 - Visual illusions - management and treatment</p> <p>S11 - Lasers in ophthalmology</p> <p>S12 - Retinal detachment – types, symptoms, diagnosis and treatment.</p> <p>S13 - Cataract - uncomplicated and complicated cases- surgical techniques the most common eye disease</p> <p>S14 – Corneal transplantations –immunological pathology and high transplants</p> <p>S15 – General diseases’ manifestation in the eye, ocular side effects of general drugs</p> <p>2. Case-based learning: Cases reports from cornea, glaucoma, cataract, retinal diseases, ocular oncology</p>	<p>F.W11</p> <p>F.W3</p> <p>F.W10 p3</p> <p>F.W14</p> <p>F.W13 p.3</p>
Classes	<p>C1-C15: Patients examination, on-call cases included: Visual acuity checking, color-vision, comparative visual field, autokeratorefractometer, slit-lamp examination, ocular motility, pupillary reflexes, optical coherence examination (OCT) of the macula and optic disc, anterior segment OCT of the patients</p>	<p>F.U20</p> <p>F.U19</p> <p>F.U3</p> <p>F.W11</p> <p>F.W3</p> <p>F.W10</p> <p>F.W14</p> <p>F.W13</p>

7. LITERATURE
Obligatory
<ol style="list-style-type: none"> 1. Materials from the seminars 2. Articles provided by the teachers
Supplementary
<ol style="list-style-type: none"> 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, F.U19, F.U20, F.U3,	Practical skills examination	Positive evaluation of the teaching assistant

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 start at 9.00 am</p> <p>Practical classes start at 10.00 a.m. 24/26 Marszałkowska 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.</p>



UROLOGY - specialty chosen by a student

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)	Chair and Department of General, Oncological and Functional Urology (1M7) Infant Jesus Teaching Hospital Urology – building no. 7 4 Lindleya St., 02-005 Warsaw, e-mail: urologia@wum.edu.pl Phone: 48 22 502 17 23/ 02

Head of Educational Unit / Heads of Educational Units	Professor Piotr Radziszewski MD, PhD
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Dr. Waldemar Szabłoński MD PhD wszablonski@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>)	dr. Waldemar Szabłoński MD PhD wszablonski@wum.edu.pl
Teachers	Prof. Piotr Radziszewski MD PhD Assoc. Prof. Tomasz Borkowski MD PhD Dr Emilia Pawłowska – Krajka MD PhD Dr. Waldemar Szabłoński MD PhD Dr. Łukasz Zapała MD PhD Dr. Sylwia Bender MD Dr. Tomasz Piecha MD PhD Dr. Piotr Zapała MD PhD Dr. Adrian Podkański MD

2. BASIC INFORMATION

Year and semester of studies	VI year, summer semester	Number of ECTS credits	6
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		0	
Seminar (S)		15	1,5
Classes (C)		75	3,0
e-learning (e-L)		0	
Practical classes (PC)		0	
Work placement (WP)		0	
Unassisted student's work			
Preparation for classes and completions		40	1,5

3. COURSE OBJECTIVES

O1	Increasing the knowledge in the field of urology beyond the level obtained after compulsory classes.
O2	Strengthening the skills in using diagnostic techniques in urology.
O3	Presentation of standard preoperative, perioperative and postoperative care.
O4	Getting practical skills in using the equipment used in urology
O5	Extending knowledge on the symptoms and the course of most common diseases of the urinary system.
O6	Teaching practical management in urologic emergencies.
O7	Strengthening knowledge on symptoms, diagnostics, treatment and prognosis of urinary tract and male genital tract neoplasms.
O8	Learning how to deal with trauma in the genitourinary 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 Regulation of Minister of Science and Higher education from 26th July 2019)

Effects in time

Knowledge – Graduate* knows and understands:

F.W1	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:
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 p. 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;

Skills– Graduate* is able to:

F.U1	collect medical history from adult patients;
F.U2	collect medical history from a child and its family;
F.U3	conduct a complete and targeted physical examination in adults;
F.U4	conduct a physical examination of children of any age;

F.U6	conduct an explanatory examination of hearing and the field of vision, as well as an otoscopic examination;
F.U23	propose a rehabilitation programme for the most common diseases;
F.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	is able to establish and maintain a deep and respectful contact with the patient
K2	is guided by the good of the patient, placing them in the first place
Skills– Graduate is able to:	
S1	
S2	
Social Competencies – Graduate is ready for:	
SC1	respects medical confidentiality and patient's rights
SC2	is aware of his own limitations and the ability to constantly improve his skills

6. CLASSES		
Form of class	Class contents	Effects of learning
Seminars	15 2-hour seminars on topics not covered in compulsory urology classes at the year four. Proposals of seminar topics will be announced to interested students on the board (3rd floor) at the beginning of the summer semester. There is a possibility to change the topic of the seminar at the students' request. Symbol / e of the learning effect in question: W1-W5, U1-U7 Lecturer: all lecturers, exchangeable	
Classes	Topic: practical classes at the patient's bed, in the outpatient clinic, ESWL unit, urodynamic unit, cystoscopic room, and on the operating theater Symbol / e of the learning effect in question: W1-W5, U1-U7 Lecturer: all lecturers, exchangeable	

7. LITERATURE
Obligatory
E-medicine: http://emedicine.medscape.com/urology For Polish speaking students: A. Borkowski et al.: Urologia. Podręcznik dla studentów medycyny. PZWL 2008
Supplementary
4. European Association of Urology Guidelines: http://uroweb.org/guidelines/

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
F.W1, F.W3, F.W4, F.W5, F.W10, F.U2, F.U3, F.U4, F.U6, F.U23, F.U24,	Practical skills examination	Positive evaluation of the teaching assistant
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>)		



NEUROLOGY - specialty chosen by a student

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 Neurology 2nd Faculty of Medicine Medical University of Warsaw 01-809 Warsaw, 80 Ceglowska St. tel./fax 48 22 5690239; e-mail: neurologia2we@wum.edu.pl

Head of Educational Unit / Heads of Educational Units	Assoc. Professor Izabela Domitrz MD, PhD
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Katarzyna Stopińska MD katarzyna.stopinska@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>)	Katarzyna Stopińska MD katarzyna.stopinska@wum.edu.pl
Teachers	Izabela Domitrz assoc.prof. Katarzyna Stopińska MD Artur Sadowski MD Michał Białobrzewski MD Sebastian Bojanowski MD Karolina Krzysztoń M.A. Jakub Stolarski PhD Anna Kocwa-Karnaś M.A. Piotr Chądzyński MD Aleksandra Kacprzak MD Paulina Fonderska MD Martyna Wypych MD

2. BASIC INFORMATION			
Year and semester of studies	VI year, summer semester	Number of ECTS credits	6
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		0	
Seminar (S)		15	1,5
Classes (C)		75	3,0
e-learning (e-L)		0	
Practical classes (PC)		0	
Work placement (WP)		0	
Unassisted student's work			

Preparation for classes and completions	30	1,5
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3. COURSE OBJECTIVES	
O1	Broadened knowledge of general and regional neurology
O2	Knowledge of practical skills with patients with neurological diseases
O3	The ability to recognize and treat basic neurological diseases
O4	The skills interpreting the results of basic additional tests (electrophysiological, neuroimaging) used in neurological diagnostics
O5	Knowledge of patient management in neurological intensive care and emergency room

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.W13, E.W14,	1.Knowledge and understanding -the causes, symptoms -principles of diagnosis -therapeutic treatment in relation to the most common diseases of the central nervous system
	2.Assess situations patient may be in danger due to neurological diseases
	3.Knowledge of problems resulting from neurological chronic conditions
E.W1	4.Environmental and epidemiological determinants of the most common illnesses.

Skills– Graduate* is able to:

E.U1.	1. Obtain a complete and reliable neurologic history and examination
E.U7. E.U3	2.Perform a focused neurologic examination
	3.Recognize basic neurological syndromes
E.U12	4.Formulate a differential diagnosis of the most common neurological diseases

	5. Interpret the results of EEG, EMG and neuroimaging
	6. Use diagnostic and therapeutic algorithms regarding to basic neurological diseases
	7. Recognize life-threatening conditions in neurological diseases
E.U20.	8. Qualification patient for home or hospitalization
E.U24	9. 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	
K2	
Skills– Graduate is able to:	
S1	
S2	
Social Competencies – Graduate is ready for:	
SC1	observe medical confidentiality and patient rights
SC2	be guided by the good of the patient

6. CLASSES		
Form of class	Class contents	Effects of learning
Seminars	1. Reminder of the patient diagnostic procedures and diagnostic process in neurology – interview, neurological examination and diagnostic tests 2. Stroke as the most common neurological problem: treatment of the acute phase of ischemic stroke (thrombolysis, thrombectomy) 3. Stroke as the most common neurological problem: prevention of ischemic stroke, cerebral venous sinus thrombosis - diagnosis and treatment 4. Stroke and cerebral venous sinus thrombosis - diagnosis and treatment	E.W1, E.W13, E.W14

	5. Multiple sclerosis - new diagnostic criteria, as well as qualification for treatment and new therapies 6. Back pain diagnosis and management in GP's practice 7. Polyneuropathy in the GP's practice 9. Treatment of the patients with epileptic seizure 10. Parkinson's disease in the GP's practice 11. Dementias - diagnostic and treatment in GP's Clinic 13. Dizziness in the GP's practice 14. Migraine – general problem 15. Interpretation of the diagnostic tests 16. Neurorehabilitation. 17, Neuropsychological differentiations 18. Neurological signs and symptoms in systemic diseases and general medicine	
Classes	1. Physical neurological and neuropsychological examination and its interpretation 2. Usefulness and interpretation of diagnostic tests needed to the diagnostic process 3. Participating in departmental duties – visiting patients, medical procedures 4. Clinical picture and treatment of neurological diseases	E.U.1 E.U3 E.U7 E.U12 E.U24

7. LITERATURE

Obligatory

Netter's Neurology, 2nd Edition

“Duus’ Topical diagnosis in neurology: anatomy, physiology, signs and symptoms” M.Baehr, M.Frotscher; Thieme, 2005
„Meritt’s Texbook of Neurology”. L.P. Rowland ; Williams

Supplementary

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
E.W1, E.W13, E.W14, E.U1, E.U3, E.U7, Sc1, SC2	MCQ test	No ALS skills and/or <60% correct MCQ answers - 2.0 (failed) 61-68% correct MCQ answers - 3.0 (satisfactory) 69-77% correct MCQ answers - 3.5 (rather good) 78-85% correct MCQ answers - 4.0 (good) 86-94% correct MCQ answers - 4.5 (more than good) >95% correct MCQ answers - 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. Classes last 3 consecutive weeks from Monday to Friday from 9:00 to 13:30 with the possibility of individual changes according to the work schedule. Depending on the current epidemiological situation, seminars are conducted in the form of contact or on-line. Exercises in the form of contact take place in the Department of Neurology.
2. 1 absence is allowed during the entire block
3. credit in the form of a test consisting of 30 questions



Pediatrics – specialty chosen by a student

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 sciences
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 Pediatric Pulmonology and Allergy, WUM (1W34) 63a Żwirki i Wigury St., 02-091 Warsaw (Pediatric Hospital) Tel. No. 22 317-94-19 alergologia.dsk@uckwum.pl Department of Pediatrics and Nephrology (1WI) Children's Hospital 63A Żwirki i Wigury St.

	02-091 Warszawa Phone: 48 22 317 96 53 Department of Neonatology NZYN Children's Hospital 63A Żwirki i Wigury St. 02-091 Warszawa phone: 48 22 317 93 43, 32, e-mail: neonatologia@wum.edu.pl www.noworodki.wum.edu.pl
Head of Educational Unit / Heads of Educational Units	Prof. Marek Kulus MD, PhD (1W34) Associate Professor Małgorzata Pańczyk- Tomaszewska MD PhD (1WI) Prof. Bożena Kociszewska-Najman MD PhD (NZYN)
Course coordinator (title, First Name, Last Name, contact)	1 Anna Komorowska-Piotrowska M.D anna.komorowska-piotrowska@wum.edu.pl (1W34) 2 Jarosław Sołtyski MD PhD e-mail: jsoltyski@wum.edu.pl (1WI) 3 Natalia Czaplińska MD, PhD, e-mail: nczaplinska@wum.edu.pl (NZYN)
Person responsible for syllabus (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	Anna Komorowska-Piotrowska M.D anna.komorowska-piotrowska@wum.edu.pl (1W34) Jarosław Sołtyski MD PhD e-mail: jsoltyski@wum.edu.pl (1WI) Natalia Czaplińska MD, PhD (NZYN) e-mail: nczaplinska@wum.edu.pl (NZYN)
Teachers	1W34: Prof. dr hab. n. med. Marek Kulus Dr hab. n. med.: Katarzyna Grzela, Katarzyna Krenke, Wojciech Feleszko Dr n. med.: Witold Bartosiewicz , Teresa Bielecka, Grażyna Kraj, Anna KomorowskaPiotrowska, Joanna Lange, Agnieszka Mazur, Marcin Sanocki, Agnieszka Strzelak, Agnieszka Szczukocka-Zych, Wioletta Zagórska, Anna Zawadzka – Krajewska 1WI: Dr hab. n. med. Małgorzata Pańczyk – Tomaszewska, Małgorzata Mizerska-Wasiak, Piotr Skrzypczyk Dr n. med.: Jarosław Sołtyski, Agnieszka Szmigielska Lek: Karolina Cichoń-Kawa, Maria Daniel, Anna Deja, Anna Ozimek, Michał Szyszka NZYN: Prof. Andrzej Piotrowski MD. PhD, , Natalia Czaplińska Md PhD, Monika Gruszczyńska MD, Magdalena Zarłenga MD, Olga Pawlik MD, Anna Perdzińska MD, Ewa Wilkos MD

2. BASIC INFORMATION

Year and semester of studies	VI year, 12 semester		Number of ECTS credits	6.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation	
Contacting hours with academic teacher				
Lecture (L)				
Seminar (S)		15	1	
Classes (C)		75	5	
e-learning (e-L)				
Practical classes (PC)				

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

3. COURSE OBJECTIVES	
O1	Most common problems in the neonatal period: adaptation problems, complications related to preterm labor, congenital defects, jaundice, hematological diseases, infections, respiratory distress syndrome, perinatal asphyxia
O2	Guidelines for neonatal resuscitation.
O3	Principles of nutrition of newborn, including breastfeeding

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 (in accordance with appendix to Regulation of Minister of Science and Higher education from 26th July 2019)	Effects in time E.W. 2,3,4,6,33,35,39; E.U. 2-4,7,8,9,14,15,27,29
Knowledge – Graduate* knows and understands:	
E.W1/ G.K1	environmental and epidemiological determinants of the most common illnesses in pediatric nephrology;
E.W3 (3,4,6,9)/ G.K2	causes, symptoms, principles of diagnosis and therapeutic treatment of the most common diseases in children: 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, 4 anaemia, bleeding diatheses, marrow failure, cancers in children, including solid tumours typical of childhood, 6 urinary tract infections, congenital anomalies of kidney and urinary tract, nephrotic syndrome, glomerulonephritis, nephrolithiasis, acute kidney injury and chronic kidney disease, systemic diseases affecting the kidneys, micturition dysfunction, drug nephrotoxicity, and emergencies in pediatric nephrology diseases 9 the most frequent infectious diseases in childhood,
E.W4	the following terms: battered child, sexual harassment, mental retardation, conduct disorders: psychoses, addictions, eating and excretion disorders in children;
E.W6	the most common life threatening conditions in children and the management of these conditions
E.W33	procedures in the case of detection of an infectious disease;
E.W35	basic features, environmental and epidemiological conditions of the most frequent human skin diseases;

E.W39	types of biological materials used in laboratory diagnostics and the principles of obtaining samples for microbiologic testing;
Skills– Graduate* is able to:	
G.S1	Assess the condition of the newborn in Apgar scale and its maturity, ability to make a diagnosis in pediatric nephrology, based on child's medical history, findings in physical examination along with additional tests and imagines
G.S2	Perform the differential diagnosis of the most common neonatal diseases and pediatric nephrology diseases
E.U2/ G.S3	collect medical history from a child and its family;
E.U4/ G.S4	conduct a physical examination of children of any age;
E.U7/ G.S5	evaluate the general condition, the state of consciousness and awareness of a patient;
E.U8/ G.S6	assess the condition of newborns in the APGAR scale and assess their maturity, examine the newborn reflexes;
E.U9/ G.S7	compare percentile charts with anthropometric and blood pressure measurements;
E.U13/G.S5	assess and describe the patient's somatic and psychological states
E.U14/ G.S8	recognise immediate threats to life;
E.U15/ G.S9	recognise states under the influence of alcohol, drugs and other stimulants;
E.U16/	plan diagnostic, therapeutic and preventive treatment
E.U18/	propose the individualisation of applicable therapeutic guidelines and alternative treatment in the case of ineffectiveness or contraindications to standard therapy
E.U27/ G.S10	qualify a patient for vaccinations;
E.U29/ G.S11	<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; <p>perform the basic medical procedures in pediatric nephrology, including:</p> <ol style="list-style-type: none"> 1. Blood pressure measurement using different methods in different age groups (auscultatory, oscilometric, ambulatory blood pressure monitoring) 2. Assist in urinary bladder catheterization

	3. Assist in ultrasonographic examination of kidneys and urinary tract 4. Assist in urodynamic studies 5. Assist in kidney biopsy 6. Assist in hemodialysis, peritoneal dialysis, continuous renal replacement therapy, and therapeutic plasma exchange 7. Assist in nephrology consultations in different hospital wards 8. Participation in multidisciplinary team meetings (with pathomorphologists, urologists, radiologists)

* 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	Department of Neonatology NZYN: Examination of the newborn Adaptation to the extrauterine life. Delivery room management. Resuscitation in the delivery room. Surgical problems in the newborn Hyperbilirubinemia in neonates Neonatal effects of maternal diabetes Neonatal sepsis Respiratory problems of newborn Prematurity and its complications	E.W2, E.W3, E.W4, E.W6, E.W33, E.W35, E.W39, E.U2, E.U4, E.U7, E.U8, E.U9, E.U14, E.U15, E.U27, E.U29.
	Department of Pediatrics and Nephrology 1WI: Useful tests in pediatric nephrology Nephrotoxicity of the drugs	E.W2, E.W3, E.W4, E.W6, E.W33, E.W35, E.W39, E.U2,

	Urinary tract infections in children in everyday practice Metabolic problems in nephrology: metabolic acidosis, hypercalciuria, hyperuricemia, ion disturbances Lifestyle diseases: Arterial hypertension, obesity, metabolic syndrome	E.U4, E.U7, E.U8, E.U9, E.U14, E.U15, E.U27, E.U29.
Clinical classes	Practical classes at Neonatal Intensive Care Unit, delivery room , Resuscitation classes with phantoms Department of Pediatrics and Nephrology Practical classes at the Department of Nephrology and Pediatrics, nephrology outpatient clinic, arterial hypertension and urodynamics laboratories	

7. LITERATURE

Obligatory

Neonatology for medical students, 2021, B.Kociszewska-Najman
Nelson Essentials of Pediatrics, 8th ed, Marcdante K, Kliegman RM, Elsevier Health Sciences, 2018

Supplementary

Nelson Textbook of Pediatrics, 21st ed, Kliegman RM and Geme J St. W.B. Saunders Company 2020
Pediatric Nephrology, 8th Ed., Emma F, Goldsterin SL, Bagga A, Bates CM, Shroff R, Springer, 2022
Pediatric Nephrology, 3rd Ed., Rees L, Bockenbauer D, Webb NJA, Punaro MG. Oxford University Press, 2019

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>

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)

10th week: Department of Pediatric Pulmonology and Allergy **1W34**, Medical University of Warsaw, 63a Żwirki i Wigury, 02-091 Warsaw (Pediatric Hospital), Head: prof. Marek Kulus MD PhD, Curricular affairs: Anna Komorowska-Piotrowska MD PhD, phone: 48 22 317-94-19 e-mail: alergologia.dsk@uckwum.pl

11th week: Department of Pediatrics and Nephrology **1WI**, Medical University of Warsaw, 63a Żwirki i Wigury, 02-091 Warsaw (Pediatric Hospital) Head: prof. Małgorzata Pańczyk- Tomaszewska MD PhD, Curricular affairs: Jarosław Sołtyski MD PhD, phone: 48 22 317 96 53, e-mail: nefrologia@spdsk.edu.pl;

12th week: Department of Neonatology **NZYN**, Medical University of Warsaw, 63a Żwirki i Wigury, 02-091 Warsaw (Pediatric Hospital) Head: prof. Bożena Kociszewska-Najman, MD PhD, Curricular affairs: Natalia Czaplińska MD, PhD; e-mail: nczaplinska@wum.edu.pl, phone: 48 22 317 93 43, 32, e-mail: neonatologia@wum.edu.pl



Cardiology – chosen subspeciality

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>	Non-compulsory
Form of verification of learning outcomes <i>(exam / completion)</i>	completion
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	1st Department of Cardiology (1WR), 1A Banacha St., 02-097 Warsaw, POLAND phone: 48 22 599 29 58, e-mail: cardiology@wum.edu.pl

Head of Educational Unit / Heads of Educational Units	Prof. Grzegorz Opolski
Course coordinator (<i>title, First Name, Last Name, contact</i>)	Dr Michał Marchel, 22 599 19 58
Person responsible for syllabus (<i>First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported</i>)	Dr Michał Marchel, 22 599 19 58
Teachers	Ewa Szczerba MD, Martyna Zaleska MD, Jakub Maksym MD, Agata Tymińska MD, Alla Adelkhanova MD, Krzysztof Ozierański MD PhD, Karol Zbroński MD, Łukasz Januszkiewicz MD PhD, Michał Peller MD PhD, Michał Marchel MD PhD

2. BASIC INFORMATION			
Year and semester of studies	6th year, 12th semester	Number of ECTS credits	6.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)			
Seminar (S)		15	1
Classes (C)		75	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	Ability to diagnose and treat of common cardiovascular diseases as: ischemic heart diseases, valvular diseases, diseases of pericardium, endocardium and myocardium, acute and chronic heart failure, arterial hypertension primary and secondary, common diseases of artery and veins, pulmonary hypertension.

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>	E.W.7 E.U.1; E.U.3: E.U.13 E.U.12; E.U.16
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Knowledge – Graduate* knows and understands:

G.K1	Knowledge of etiology, symptoms, diagnostics and treatment of common cardiovascular diseases as: ischemic heart diseases, valvular diseases, diseases of pericardium, endocardium and myocardium, acute and chronic heart failure, arterial hypertension primary and secondary, common diseases of artery and veins, pulmonary hypertension.
G.K1/ E.W7 p.1	Knowledge of reasons, symptoms, diagnostic and treatment procedures of the most frequent internal diseases and their complications in adult patients: 1) circulatory system diseases, including coronary heart disease, heart defects, endocardium disease, cardiomyopathy, pericardium diseases, cardiac failure (acute and chronic), artery and vein diseases, hypertension: essential and secondary, pulmonary hypertension,

Skills– Graduate* is able to:

G.S1	Skills: history taking and physical examination of patients with cardiovascular diseases, basic interpretation of electrocardiography, indication for visualization tests like echocardiography, computed tomography, magnetic resonance imaging and coronary angiography
G.S1/ E.U1	collect medical history from adult patients
G.S2/ E.U3	conduct a complete and targeted physical examination in adults;
G.S3/ E.U12	perform the differential diagnosis of the most common diseases in adults and children;
G.S4/ E.U13	assess and describe the patient's somatic and psychological states;
G.S5/ E.U16	plan diagnostic, therapeutic and preventive 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	As above
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Skills– Graduate is able to:

S1	As above
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Social Competencies – Graduate is ready for:

SC1	As above
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6. CLASSES

Form of class	Class contents	Effects of Learning
Seminars/e-learning/bedside classes	Intensive cardiac care 1 (K1, S1, C1)	E.W.7
Seminars/e-learning/bedside classes	Intensive cardiac care 2 (K1, S1, C1)	
Seminars/e-learning/bedside classes	Intensive cardiac care 3 (K1, S1, C1)	
Seminars/e-learning/bedside classes	Intensive cardiac care 4 (K1, S1, C1)	
Seminars/e-learning/bedside classes	Intensive cardiac care 5 (K1, S1, C1)	
Seminars/e-learning/bedside classes	Interventional cardiology 1 (K1, S1, C1)	
Seminars/e-learning/bedside classes	Interventional cardiology 2 (K1, S1, C1)	
Seminars/e-learning/bedside classes	Interventional cardiology 3 (K1, S1, C1)	
Seminars/e-learning/bedside classes	Interventional cardiology 4 (K1, S1, C1)	
Seminars/e-learning/bedside classes	Interventional cardiology 5 (K1, S1, C1)	
Seminars/e-learning/bedside classes	Electrophysiology 1 (K1, S1, C1)	
Seminars/e-learning/bedside classes	Electrophysiology 2 (K1, S1, C1)	
Seminars/e-learning/bedside classes	Electrophysiology 3 (K1, S1, C1)	
Seminars/e-learning/bedside classes	Electrophysiology 4 (K1, S1, C1)	
Seminars/e-learning/bedside classes	Electrophysiology 5 (K1, S1, C1)	

7. LITERATURE**Obligatory**

1. Eugene Braunwald, ed., Heart Disease. A Textbook of Cardiovascular Medicine, 10 edition, Philadelphia: W.B. Saunders Company, 2015.
2. John Camm, Thomas F. Lüscher, Patrick Serruys The ESC Textbook of Cardiovascular Medicine, OUP Oxford, 2009.
3. Brian P. Griffin Manual of Cardiovascular medicine, 4th edition, Lippincott Williams & Wilkins, 2013.
4. Guidelines of the European Society of Cardiology (<http://www.escardio.org/guidelines-surveys/esc-guidelines/Pages/GuidelinesList.aspx>)

Supplementary

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
E.W.7	Quiz in e-learning platform and oral credit	60% for quiz

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)*

Cardiology Club (contact: Michał Peller MD, PhD; michal.peller@wum.edu.pl)