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**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/)

<https://ed.wum.edu.pl/students/>

6th YEAR CURRICULUM

6-year program

SPECIALTY CHOSEN BY A STUDENT

Warsaw, 2023/2024

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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 – Krystyna Jarzab, MA

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Student Administration Officer (4th, 5th, 6th -Year) – Anna Rosa, MA

STUDENT GOVERNMENT REPRESENTATIVES:

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Academic Affairs Coordinator – Flynn Ott

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

CLASS REPRESENTATIVE:

Ishani Khanna – 6 year

SCHEDULE – ACADEMIC YEAR 2023/2024

6-year program

WINTER SEMESTER – 01.10.2023 – 18.02.2024

STUDENT'S ACADEMIC CLASSES: 01.10.2023 – 17.12.2023

02.01.2024 – 28.01.2024

WINTER HOLIDAYS: 18.12.2023 – 01.01.2024

EXAM SESSION: 29.01.2024 – 04.02.2024

DAYS OFF BETWEEN SEMESTER: 05.02.2024 – 11.02.2024

RETAKE EXAM SESSION: 12.02.2024 – 18.02.2024

SUMMER SEMESTER – 19.02.2024 – 30.09.2024

STUDENT'S ACADEMIC CLASSES: 19.02.2024 – 28.04.2024

06.05.2024 – 09.06.2024

SPRING HOLIDAYS: 29.04.2024 – 05.05.2024

DAYS OFF BEFORE EXAM SESSION: 10.06.2024 – 16.06.2024

EXAM SESSION: 17.06.2024 – 07.07.2024

SUMMER HOLIDAYS: 08.07.2024 – 30.09.2024

RETAKE EXAM SESSION: 02.09.2024 – 15.09.2024

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Obstetrics & Gynaecology – Specialty

1. IMPRINT

Academic Year	2023/2024
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline	Medical science
Study Profile	General academic and practical
Level of studies	Uniform MSc
Form of studies	Full time studies
Type of module / course	Obligatory
Form of verification of learning outcomes	Credit
Educational Unit / Educational 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	Prof. Krzysztof Cendrowski, MD, PhD
Person responsible for syllabus	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	Effects in time (in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)
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	G.K1, G.K3

	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 gynaecological 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.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)

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	2023/2024
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline	Medical science
Study Profile	General academic
Level of studies	uniform MSc
Form of studies	full time studies
Type of module / course	Non-compulsory
Form of verification of learning outcomes	completion
Educational Unit / Educational Units	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	M. Polańska- Płachta MD, PhD, eustacha2@gmail.com Ł. Kaczorowski MD, lukasz.m.kaczorowski@gmail.com
Person responsible for syllabus	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. Wyleżół 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	Effects in time (<i>in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019</i>)
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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 (<i>non-compulsory</i>)	
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
Classes (C)	C1- Physical examination and medical history taking. C2- Medical case presentation. C3- Participation in the medical procedures undertaken on the ward, postoperative room. C4- Participation in surgeries. C5- Outpatient Department. C6- Basic suturing techniques. C7- 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.	

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 *(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)*

Didactics and organization of the classes:

- 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

Surgery Club

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.



UROLOGY - specialty chosen by a student

1. IMPRINT	
Academic Year	2023/2024
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline	Medical science
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Full time studies
Type of module / course	Obligatory
Form of verification of learning outcomes	completion
Educational Unit / Educational 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	Dr. Waldemar Szabłoński MD PhD wszablonski@wum.edu.pl
Person responsible for syllabus	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.
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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	Effects in time (<i>in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019</i>)
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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: <ul style="list-style-type: none"> 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;
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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 in 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
<p>E-medicine: http://emedicine.medscape.com/urology</p> <p>For Polish speaking students: A. Borkowski et al.: Urologia. Podręcznik dla studentów medycyny. PZWL 2008</p>
Supplementary
<p>1. European Association of Urology Guidelines: http://uroweb.org/guidelines/</p>

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>)		



PSYCHIATRY - specialty chosen by a student

1. IMPRINT	
Academic Year	2023/2024
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline	Medical science
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Full time studies
Type of module / course	Non-compulsory
Form of verification of learning outcomes	Completion
Educational Unit / Educational Units	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 e-mail: andrzej.kokoszka@wum.edu.pl
Course coordinator	Dr Marcin Obrębski e-mail: mobrebski@wum.edu.pl
Person responsible for syllabus	Dr Marcin Obrębski e-mail: mobrebski@wum.edu.pl
Teachers	Prof. dr hab. med. Andrzej Kokoszka Dr n. med. Aleksandra Jodko-Modlińska Dr n. med. Barbara Kostecka Dr n. o zdr. Marcin Obrębski Lek. med. Magdalena Grusiecka-Stańczyk Lek. med. Wiktor Buczek Lek. Natalia Chłopecka Lek. Sebastian Koterwa Lek. Marta Budziszewska Lek. Med. Radosław Napora Lek. Monika Gawłowicz Lek. Małgorzata Dobrowolska Lek. Sasza Rychlica Lek. Mikołaj Rejewski Mgr Magdalena Strząska 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	2
Discussions (D)		75	3
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
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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	Effects in time <i>(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>

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 in 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
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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

- Sadock B.J., Sadock V.A. Ruitz P. Kaplan and Sadock's Synopsis of Psychiatry: Behavioral Sciences/Clinical Psychiatry. Wolters Kluver, 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	Essay prepared by students about practical conclusions from seminars on the use of psychiatric knowledge in an aspect of general practice chosen by students.	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= Drewnica 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

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ATTENTION

The final 10 minutes of the last class in the block/semester/year should be allocated to students' Survey of Evaluation of Classes and Academic Teachers.



Maternal Fetal Medicine (Perinatology and Fetal Therapy) - student's choice specialty

1. IMPRINT	
Academic Year	2023/2024
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline	Medical sciences
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Full time studies
Type of module / course	Non-compulsory
Form of verification of learning outcomes	completion
Educational Unit / Educational Units	Department of Obstetrics, Perinatology and Gynecology (NZZP) Children's Clinical Hospital, 63A Żwirki i Wigury St., 02-091 Warsaw

Head of Educational Unit / Heads of Educational Units	Prof. dr hab. n. med. Piotr Węgrzyn
Course coordinator	Dr hab. n. med. Przemysław Kosiński e-mail: pkosinski@wum.edu.pl
Person responsible for syllabus	Dr hab. n. med. Przemysław Kosiński e-mail: pkosinski@wum.edu.pl
Teachers	Dr hab. n. med. Przemysław Kosiński, MD, PhD Dr n. med. Katarzyna Luterek MD, PhD

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 maternal-fetal medicine, novel forms of treatment in perinatal medicine – fetal therapy
O2	Practical application of acquired knowledge in the perinatology and fetal therapy
O3	Further improving of practical skills in the field of maternal-fetal medicine
O4	To obtain the theoretical knowledge on physiology and pathology of pregnancy and delivery

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

F.W9 (1-7)	the female reproductive function, associated disorders and diagnostic and therapeutic management, concerning in particular: 1) the menstrual cycle and its disorders, 2) pregnancy, 3) the physiological and pathological childbirth and the puerperium, 4) inflammations and tumours in the genital area, 5) birth control, 6) menopause, 7) the basic gynaecological diagnostic methods and procedures;
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Skills– Graduate* is able to:

F.U14	interpret the results of physical examination of a pregnant woman (blood pressure, maternal and foetal heart rate) and the results of laboratory tests indicative of pathologies in pregnancy;
F.U15	interpret cardiotocography (CTG) recordings;
F.U16	recognise the beginning of labour and its abnormal duration;
G.S2 – F.U13	Student is able to recognize high risk pregnancy: recognise the signs and symptoms proving an improper course of pregnancy (abnormal bleedings, contractile activity of the uterus);
G.S3 – F.U17	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	S1 – Breech delivery S2 – Cesarean section delivery – different surgery techniques S3 – Rhesus disease S4 – Shoulder dystocia S5 – Gestational diabetes mellitus – implications for mother and baby S6 – Cell free DNA testing S7 – Preeclampsia, eclampsia S8 – Monochorionic pregnancy (TTTS, SIUGR, TAPS). S9 – 1st trimester Ultrasound S10 – Diaphragmatic hernia S11 – Preterm delivery S12 – Spina bifida S13 – Detection of fetal abnormalities S14 – Pregnancy loss S15 – Premature rupture of labour (pPROM, PROM)	W1-W3, U1-U6, F.W9.; D.W5.; D.W17.; D.W18.; E.U20.;
Practical classes	students consolidate their skills, i.e. collecting medical history; performing obstetrical examinations, including patients in labour ward. Students attend ultrasound scans, medical procedures in Maternal Fetal Unit (such as preinduction of labour), fetal therapy procedures (such as fetoscopy, laser therapy, intrauterine blood transfusion). Students attend obstetrical ER, outpatients clinic (attend counseling), attend cesarean section deliveries.	U1-U6, K1- K9, S1-S15; B.U10.; C.U17.; F.U6.; D.W14.; D.U4.; D.U5.; D.U12.; D.U13.; D.U15.; D.U16.; D.U17.; E.U38.

7. LITERATURE
Obligatory
1. Materials from the seminars 2. Articles provided by the teachers
Supplementary
2. Callens Ultrasonography in Obstetrics and Gynecology, Mary E Norton, Elsevier 2016 3. Fetology Diagnosis and Management of the Fetal Patient; Diana W. Bianchi, Timothy M. Crombleholme, Mary E. D'Alton, 4. Creasy and Resnik's Maternal-Fetal Medicine, 9th Edition, Elsevier 2022

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
W1-W3; U1-U6 K1-K9 S1-S15	activity in practical classes	Positive evaluation of the teaching assistant

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)*

Maternal Fetal Medicine (Perinatology and Fetal Therapy) Specialty takes 3 weeks (dates will be provided soon)

Classes start the seminar at. 9.00 in the Conference Room 100 (first floor D wing). The cloakroom for students is located on ground floor of the hospital).

In special cases, the students will be informed about any organizational changes by e-mail.

The contact with the Clinic is by e-mail (poloznictwo.dsk@uckwum.pl, Przemyslaw Kosinski pkosinski@wum.edu.pl).

Only one absence is acceptable and needs to be worked off with a different group.

It is mandatory to change shoes and have a white coat (short sleeves is recommended). Basic knowledge of obstetrics is required, as well as entry knowledge for a specific seminar.

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.

It is strictly forbidden to take photos and record videos in any way showing patients, medical procedures or medical documentation.

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ATTENTION

The final 10 minutes of the last class in the block/semester/year should be allocated to students' Survey of Evaluation of Classes and Academic Teachers.



Anesthesiology and Intensive Care: chosen specialty

1. IMPRINT	
Academic Year	2023/2024
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline	Medical sciences
Study Profile	general academic
Level of studies	uniform MSc
Form of studies	Full time studies
Type of module / course	Obligatory
Form of verification of learning outcomes	Credit on completion (test with a mark)
Educational Unit / Educational Units	1 st Department of Anesthesiology and Intensive Care, Medical University of Warsaw, Lindleya 4, 02-005 Warsaw, Poland. Telephone: +48 22 502 1721; email: klinanest1@wum.edu.pl ; webpage: www.anestezjologia1.wum.edu.pl

Head of Educational Unit / Heads of Educational Units	Dr hab. n. med. Janusz Trzebicki
Course coordinator	Marek Janiak MD, Telephone: +48 22 502 1721; email: marek.janiak@wum.edu.pl
Person responsible for syllabus	Marek Janiak MD, Telephone: +48 22 502 1721; email: marek.janiak@wum.edu.pl
Teachers	Jan Pluta MD PhD, jan.pluta@wum.edu.pl ; Beata Błaszczuk MD PhD, beata.blaszczuk@wum.edu.pl ; Marcin Kołacz MD PhD, marcin.kolacz@wum.edu.pl ; Lidia Jureczko MD PhD, lidia.jureczko@wum.edu.pl ; Rafał Kowalczyk MD PhD, rafal.kowalczyk@wum.edu.pl ; Paweł Zatorski, pawel.zatorski@wum.edu.pl ; Grzegorz Górniewski MD PhD, grzegorz.gorniewski@wum.edu.pl ; Marek Janiak MD, marek.janiak@wum.edu.pl ; Piotr Mieszczanski MD, piotr.mieszczanski@wum.edu.pl ; Romana Cal MD, Przemysław Bornsztajn MD

2. BASIC INFORMATION

Year and semester of studies	VI year, XII 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
Discussions (D)		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	Widen knowledge on general and regional anesthesia
O2	Teach principles of pain management in differing clinical situations

O3	Familiarize the student on principles of patient management in the intensive care
O4	Familiarize the student with the possibilities of using ultrasound techniques in anesthesiology and intensive care
O5	Educate the student on management of acute bleeding and hemostatic disorders

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING

Code and number of effect of learning in accordance with standards of learning	Effects in time <i>(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>
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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 anesthesia and controlled sedation
F.W5.	postoperative treatment with analgesic therapy and postoperative monitoring
F.W6.	indications for and principles of use of intensive care
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 conditions in which life expectancy, functional patient state or personal preferences limit the treatment according to the guidelines for a specific illness
E.U24.	interpret laboratory test results with the identification of reasons for alterations
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 catheterization, 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 basic management in acute poisoning
E.U34.	monitor patient condition in acute chemical or drug poisoning
E.U37.	identify patient agony and confirm death
E.U38.	write patient medical records
F.U5.	place a venous access
F.U10.	perform basic life resuscitation with automated external defibrillation devices and other resuscitation adjuncts, as well as provide first aid
F.U11.	perform resuscitation according to the latest advanced guidelines
F.U12.	monitor perioperative care with recording of basic vital signs
F.U21.	assess an unconscious patient using international point scales

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:

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Skills– Graduate is able to:

D.U13.	respect ethical standards in professional work
D.U15.	observe patient rights

Social Competencies – Graduate is ready for:

K1	developing and maintaining a deep and respectful connection with a patient, demonstrating understanding of cultural and religious differences
K2	being guided by patient wellbeing, and treating it as a first line
K3	maintaining doctor-patient confidentiality and patient rights
K4	making decisions for patients based on ethical principles with the understanding of their social background and their limitations resulting from the illness

K10	formulating opinions regarding different aspects of professional activities
K11	taking responsibility for decisions made during professional work, including self and others safety

6. CLASSES		
Form of class	Class contents	Effects of Learning
Seminars		
S1	Chosen novelties in anesthesia and intensive care	E.W29., E.W41., F.W4., F.W6.
S2	Management of a patient in the intensive unit. Respiratory failure and 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	Point-of-care ultrasound in anesthesia and intensive care.	F.U10., E.U16., F.W6.
Practical classes		
PC1	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
PC2	Practice in operating theatres	F.U12., F.W5., E.W41
PC3	Practice in postanesthesia care units (PACU) and recovery areas	E.W29., F.W4., F.W5., E.U13., E.U16., E.U18., 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 www.biblioteka.wum.edu.pl) 2. "Basic Clinical Anesthesia" Paul K Sikka; Shawn T Beaman; James A Street 2015 (available via www.biblioteka.wum.edu.pl) 3. "Essentials of regional anesthesia" chosen chapters Kaye 2015 (available via www.biblioteka.wum.edu.pl) 4. European Resuscitation Council (ERC) Guidelines on Advanced Life Support (ALS) 2021 (www.erc.edu)
Supplementary

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.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,	<p>Student presence card – presence and activity of the student during classes is recorded</p> <p>Test – multiple choice questions (MCQs) 15 questions</p>	<p>Presence in all classes recorded in student card – and submitted at the end of the course to the secretariat</p> <p>CRITERIA FOR MARKS: 2.0 (fail) 0-7 correct answers 3.0 (satisfactory) 8-9 correct</p>

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		3.5 (rather good) 10 correct 4.0 (good) 11-12 correct 4.5 (more than good) 13 correct 5.0 (very good) 14-15 correct
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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*)

During the practical classes and on contact with patients, we recommend medical clothing with short sleeves. Please do not wear private clothing. In case of using a white apron on personal clothing, the apron should be fastened. Long hair should be pinned back. It is necessary to change to theatre applicable footwear with adherence to safety rules. During practical classes in areas with patients – the rule “nothing below elbow” should be applied – that is watches, jewelry should be taken off. The “5 moments of hand hygiene” should be applied. Diagnostic medical gloves should be donned only after cleaning and/or disinfection of hands, directly before patient contact.

PLEASE BE ON TIME for classes. No unexplainable absences are allowed.

In case of absence during classes, it is obligatory to contact the head of the department or person responsible for subject
Telephone +48 22 502 17 21

Access www.anestezjologia1.wum.edu.pl for lecture presentations.

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ATTENTION

The final 10 minutes of the last class in the block/semester/year should be allocated to students’

Survey of Evaluation of Classes and Academic Teachers



Pediatrics Chosen Specialty

1. IMPRINT	
Academic Year	2023/2024
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline	Medical sciences
Study Profile	general academic
Level of studies	uniform MSc
Form of studies	Full time studies
Type of module / course	Non- compulsory
Form of verification of learning outcomes	Completion
Educational Unit / Educational Units	Department of Paediatric Cardiology and General Paediatrics (2M6) ul. Żwirki i Wigury 63A, 02-091 Warszawa e-mail: kardiologia@spdsk.edu.pl
Head of Educational Unit / Heads of Educational Units	Prof. dr hab.n.med. Bożena Werner
Course coordinator	<i>(Radosław Pietrzak, MD, PhD radoslaw.pietrzak@wum.edu.pl)</i>
Person responsible for syllabus	<i>Radosław Pietrzak, MD, PhD radoslaw.pietrzak@wum.edu.pl</i>
Teachers	Professor Bożena Werner, MD, PhD e-mail: bozena.werner@wum.edu.pl Beata Kucińska, MD PhD; beata.kucinska@wum.edu.pl Radosław Pietrzak, MD PhD; radoslaw.pietrzak@wum.edu.pl Halszka Kamińska, MD PhD; halszka.kaminska@wum.edu.pl Tomasz Książczyk, MD; tomasz.ksiazczyk@wum.edu.pl Anna Chanas, MD; anna.chanas@uckwum.pl Katarzyna Łuczak-Woźniak, MD; katarzyna.luczak-wozniak@wum.edu.pl Agnieszka Pskit-Hanuszczak, MD; agnieszka.pskit@uckwum.pl Ewa Smereczyńska-Wierzbicka, MD; ewa.wierzbicka@uckwum.pl Małgorzata Ludzia, MD; mludzia@wum.edu.pl Anna Rożnowska-Wójtowicz, MD; anna.wojtowicz@uckwum.pl

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2. BASIC INFORMATION

Year and semester of studies	6 th year 2nd 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
Discussions (D)		75	3.5
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	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

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

K1/EW2	Knowledge of special circumstances of vaccinations for the paediatric diseases
K2/AW.1	Anatomical, histological and embryological terminology in English
K3/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.
K4/CW9	Knowledge of basic rules in genetical diagnostic procedures in pediatrics.
K5/EW.5	Knowledge of basic rules of diagnostic procedures in fetal cardiology

Skills– Graduate is able to:

S1/EU2	Ability to make medical history with a child and his family
S2/EU4	Ability to perform physical examination in a child of every age.

S3/EU13	Ability to evaluate the level of consciousness and general state in children in various age
S4/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>	<p>EU2</p> <p>EU4</p> <p>EU13</p> <p>EU29</p> <p>SC1</p> <p>SC2</p> <p>SC3</p> <p>SC4</p> <p>CW9</p>

7. LITERATURE
Obligatory
<p>3. <i>Nelson Essentials of Pediatrics. Marcdante KJ, Kliegman RM, Elsevier Saunders,</i></p> <p>4. <i>Park's Pediatric Cardiology for Practitioners, Myung K. Park, MD, FAAP, FACC</i></p>
Supplementary
<p>1. <i>Nelson Textbook of Pediatrics. Kliegman RM, Stanton BMD, Elsevier Saunders.</i></p>

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

9. ADDITIONAL INFORMATION

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.

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.

It is strictly forbidden to take photos and record videos in any way showing patients, medical procedures or medical documentation.

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ATTENTION

The final 10 minutes of the last class of the block/semester/year should be allotted for students to fill out the Survey of Evaluation of Classes and Academic Teachers



OPHTHALMOLOGY - specialty chosen by a student

1. IMPRINT	
Academic Year	2023/2024
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline	Medical sciences
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Full time studies
Type of module / course	Non-compulsory
Form of verification of learning outcomes	completion
Educational Unit / Educational Units	Department of Ophthalmology Marszałkowska 24/26 Str, 00-576 Warsaw

Head of Educational Unit / Heads of Educational Units	Professor Jacek P. Szaflik MD, PhD
Course coordinator	Monika Łazicka-Gałęcka, MD, PhD e-mail: monika.lazicka-galecka@wum.edu.pl Anna Kurowska, MD, PhD (urlop) e-mail: anna.kurowska@wum.edu.pl
Person responsible for syllabus	Joanna Przybek-Skrzypecka, MD, PhD e-mail: joanna.przybek-skrzypecka@wum.edu.pl
Teachers	Professor Jacek P. Szaflik MD, PhD, FEBO Ewa Langwińska MD, PhD Justyna Izdebska MD, PhD Anna Zaleska-Żmijewska MD, PhD Michał Post, 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)
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 the effect of learning in accordance with standards of learning	Effects in time (in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)
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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 contraindications 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	cranio-cerebral injuries,
F.W14	basic issue 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 in 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 – Basics of vitreoretinal surgery</p> <p>S2 – Refractive errors</p> <p>S3 - Myopia control in children</p> <p>S4 - Eyelids and orbit surgery</p> <p>S5 - Diagnostic tools in anterior segment eye diseases</p> <p>S6 – Ocular immunology and high risk corneal transplants</p> <p>S7 – Diabetic eye disease</p> <p>S8 – Keratoconus: what's new in the management?</p> <p>S9 - Infectious Case-based learning in common corneal and conjunctival diseases</p> <p>S10 - Visual illusions - management and treatment</p> <p>S11 - Laser treatment in ophthalmology</p> <p>S12 - Cataract - uncomplicated and complicated cases- surgical techniques of the most common eye disease</p> <p>S13 – Corneal transplantations –immunological pathology and high risk transplants</p> <p>S14 – Impact of general diseases and general medications on eye</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>
Practical classes	<p>C1-C15: students consolidate their skills, i.e. collecting medical history; perform ophthalmic examinations, including visual acuity, color vision, comparative field of view, autokeratorefractometer, slit lamp examination, eye mobility, pupillary reflexes, optical coherence of the macula and optic disc (OCT), 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</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
5. Materials from the seminars 6. Articles provided by the teachers
Supplementary
5. „Ophthalmology at a Glance” Jane Olver, Lorraine Cassidy, ISBN: 978-0-632-06473-1, May 2005, ©2005, Wiley-Blackwell 6. “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,	activity in practical classes	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>Classes start the seminar at. 8.30 in the Conference Room on the fourth floor, room 4.43. The cloakroom for students is located on the 4th floor of the hospital rm 4.44).</p> <p>In special cases, the students will be informed about any organizational changes by e-mail.</p> <p>The contact with the Clinic is by e-mail (clinika@spkso.waw.pl) or by phone: 22 5116377 (Clinic's office).</p> <p>Only one absence is acceptable.</p> <p>Medical clothing and changeable footwear are required during the classes. Medical clothing with short sleeves is recommended. In the case of a medical apron worn over private clothing, it should be closed. Jewelery (watches, rings, bracelets, etc.) is not allowed. Nails must not be painted and long hair should be pinned together. Protective gloves should be put on after washing / disinfecting hands immediately before contact with the patient.</p>

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<p align="center">ATTENTION</p> <p align="center">The final 10 minutes of the last class in the block/semester/year should be allocated to students' Survey of Evaluation of Classes and Academic Teachers.</p>
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NEUROLOGY - specialty chosen by a student

1. IMPRINT	
Academic Year	2023/2024
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline	Medical science
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Full time studies
Type of module/ course	Obligatory
Form of verification of learning outcomes	completion
Educational Unit / Educational Units	Department of Neurology 2nd Faculty of Medicine (WLS20) Medical University of Warsaw 01-809 Warsaw, 80 Ceglowska St. tel./fax 48 22 5690239, -174; e-mail: neurologiawm@wum.edu.pl

Head of Educational Unit / Heads of Educational Units	Professor Izabela Domitrz MD, PhD
Course coordinator	Katarzyna Stopińska MD e-mail: katarzyna.stopinska@wum.edu.pl
Person responsible for syllabus	Katarzyna Stopińska MD e-mail: katarzyna.stopinska@wum.edu.pl
Teachers	Izabela Domitrz 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	Effects in time <i>(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>

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 in 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



Cardiology – chosen subspecialty

1. IMPRINT

Academic Year	2023/2024
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline	Medical Science
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Full time studies
Type of module/ course	Non-compulsory
Form of verification of learning outcomes	completion
Educational Unit / Educational Units	1st Department of Cardiology (1WR), 1A Banacha St., 02-097 Warsaw, POLAND Phone: 22 599 29 58 e-mail: cardiology@wum.edu.pl WWW: http://cardiology.wum.edu.pl

Head of Educational Unit / Heads of Educational Units	prof. dr hab. Marcin Grabowski
Course coordinator	Assoc. Professor Michał Marchel, MD PhD, phone: 22 599 19 58, e-mail: michal.marchel@wum.edu.pl
Person responsible for syllabus	Assoc. Professor Michał Marchel, MD PhD, phone: 22 599 19 58, e-mail: michal.marchel@wum.edu.pl
Teachers	Marcin Grabowski MD, Paweł Balsam MD, Aleksandra Gąsecka MD, Renata Głowczyńska MD, Ewa Szczerba MD, Martyna Zaleska MD, Jakub Maksym MD, Agata Tymińska MD, , Krzysztof Ozierański MD, Karol Zbroński MD, Łukasz Januszkiewicz MD, Michał Peller MD, Szymon Jonik MD, Agnieszka Kołodzińska MD, Michał Konwerski MD, Dorota Ochijewicz MD, Michał Kowara MD, Cezary Maciejewski MD, Jakub Rokicki MD, Marek Wawrzacz MD, Michał Marchel MD.

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.
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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	Effects in time (<i>in accordance with appendix to the 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 in time
-------------------------------------	------------------------------------

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, 11th edition, Philadelphia: W.B. Saunders Company, 2018.
2. John Camm, Thomas F. Lüscher, Gerard Maurer Patrick Serruys The ESC Textbook of Cardiovascular Medicine (3 edn), OUP Oxford, 2019.
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*)

Dress code	Medical clothing with short sleeves is recommended. Avoid wearing private clothing on the hospital grounds. If medical coats are used for private clothing, they must be fastened. Long hair must be tied up. It is necessary to change footwear to work footwear in accordance with the regulations. If diagnostic gloves are used, they should be put on after hand washing and / or disinfection, immediately prior to contact with the patient.
Cardiology Club	contact: Marek Wawrzacz MD; marekjakub.wawrzacz@gmail.com

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ATTENTION

The final 10 minutes of the last class of the block/semester/year should be allotted for students to fill out the Survey of Evaluation of Classes and Academic Teachers