MEDICAL UNIVERSITY OF WARSAW

FACULTY OF MEDICINE

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

http: // www.wum.edu.pl/

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

6sth YEAR CURRICULUM

6-year program

SPECIALTY CHOSEN BY A STUDENT

Warsaw, 2026/2027

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

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

Student Administration Officer (4th, 5th, 6th -Year) – Dominka Renik, MA and Patrycja Karpińska, MA

STUDENT GOVERNMENT REPRESENTATIVES:

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www: *https://ed.wum.edu.pl/edsg*
https://edsgmuw.wixsite.com/wumedsg

CLASS REPRESENTATIVE:

Abdullah Kollattu – 6 year

SCHEDULE – ACADEMIC YEAR 2026/2027

6-year program

WINTER SEMESTER – 01.10.2026 – 21.02.2027

STUDENT'S ACADEMIC CLASSES:	01.10.2026 – 20.12.2026
	04.01.2027 – 31.01.2027
WINTER HOLIDAYS:	21.12.2026 – 03.01.2027
EXAM SESSION:	**01.02.2027 – 07.02.2027**
DAYS OFF BETWEEN SEMESTER:	08.02.2027 – 14.02.2027
RETAKE EXAM SESSION:	15.02.2027 – 21.02.2027

SUMMER SEMESTER – 22.02.2026 – 30.09.2027

STUDENT'S ACADEMIC CLASSES:	22.02.2027 – 24.03.2027
	01.04.2027 – 13.06.2027
EASTER HOLIDAYS:	25.03.2027 – 31.03.2027
DAYS OFF BEFORE EXAM SESSION:	14.06.2027 – 20.06.2027
EXAM SESSION:	**21.06.2027 – 11.07.2027**
SUMMER HOLIDAYS:	12.07.2027 – 30.09.2027
RETAKE EXAM SESSION:	30.08.2027 – 12.09.2027

Announcement no. 90/2026 of the Rector of the Medical University of Warsaw of April 13, 2026

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Obstetrics & Gynaecology – Specialty

1. IMPRINT	
Academic Year	2026/2027
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. Krzysztof Cendrowski, MD, PhD
Course coordinator	Prof. Krzysztof Cendrowski, MD, Phd
Person responsible for syllabus	Anna Wnuk, PhD, e-mail: anna.wnuk@wum.edu.pl

Teachers	Prof. Krzysztof Cendrowski, MD PhD; Prof. Włodzimierz Sawicki, MD PhD; Michał Bachanek, MD PhD; Anna Wnuk PhD; Aleksandra Zielińska, MD PhD; Seweryn Trojanowski, MD PhD; Bohdan Dźwigała, MD PhD, Anna Kociszewska- Wolak, MD PhD, Joanna Winiarek, MD; Witold Krzywdziński, MD; Tetiana Blyzniuk, MD; Matylda Wincenciak, MD; Monika Ostapów- Stępień, MD; Natalia Sawicka, MD Zofia Awiżeń Panufnik, MD Krystian Szaran, MD; Anna Tokarska, MD; Marcelina Sztyler- Krąkowska, MD Julia Górny, MD; Iwona Piwowarczyk, 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 **Contacting hours with academic teacher**	**Number of hours**	**ECTS credits calculation**
Lecture (L)		
Seminar (S)	15	0.60
Classes (C)	75	3.00
e-learning (e-L)		
Practical classes (PC)		
Work placement (WP)		
Unassisted student's work		
Preparation for classes and completions	60	2.40

3. COURSE OBJECTIVES

O1	To obtain the theoretical knowledge on physiology and pathology of the pregnancy and the delivery as well as physiopathol neonatal period.

O2	To obtain practical ability of gyneacological examination and examination of pregnant patient and patient in labour.
O3	To obtain practical ability in management of normal delivery.
04	To gain basic information about gynaecologic diseases and diagnosis and treatment of femal genital organs malignancy.
05	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 the field of:** *(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)* F.W9 p. 1-7; F.U13, F.U14, F.U15, F.U16, F.U17, F.U18; K1, S1, SC1
Knowledge – Graduate* knows and understands:	
F.W9 p. 2	reproductive functions of women, any related disorders and diagnostic and therapeutic actions concerning in particular: 2) pregnancy, Student is able to diagnose and monitor physiological and pathological pregnancy.
F.W9 p. 3	reproductive functions of women, any related disorders and diagnostic and therapeutic actions concerning in particular: 3) physiological and pathological childbirth and puerperium, Student is able to diagnose and monitor physiological and pathological delivery.
G.K3 (F.W9 p. 3)	reproductive functions of women, any related disorders and diagnostic and therapeutic actions concerning in particular: 3) physiological and pathological childbirth and puerperium, Student knows the puerperium development and complications during puerperium.
F.W9 p. 1	F.W9 p. 1 reproductive functions of women, any related disorders and diagnostic and therapeutic actions concerning in particular: 1) menstrual cycle and its disorders, Student knows menstrual cycle, its disorders and contraception methods.
F.W9 p. 5	F.W9 p. 5 reproductive functions of women, any related disorders and diagnostic and therapeutic actions concerning in particular: 5) childbirth control,
F.W9 p. 4	F.W9 p. 4 reproductive functions of women, any related disorders and diagnostic and therapeutic actions concerning in particular: 4) inflammations and cancers of sexual organs, Student is able to recognize the symptoms and know the methods of diagnosis and therapy of inflammations, cancer and ot pathologies of female genital organs.
F.W9 p. 7	reproductive functions of women, any related disorders and diagnostic and therapeutic actions concerning in particular:

	7) basic diagnostic methods and gynaecological treatments;
F.W9 p. 6	reproductive functions of women, any related disorders and diagnostic and therapeutic actions concerning in particular: 6) menopause, Student is able to recognize menopause and its disorders.
Skills– Graduate* is able to:	
F.U13	recognise the signs and symptoms proving an improper course of pregnancy (abnormal bleedings, contractile activity of the uterus);
F.U14	interpret the results of a physical examination of a pregnant woman (blood pressure, heart function of the foetus's mother) and the results of laboratory tests proving pregnancy pathologies;
F.U15	Student is able to interpret CTG monitoring.
F.U16	recognise the beginning of delivery and improper delivery duration; Student is able to recognize high risk pregnancy.
F.U17	interpret the signs and symptoms during puerperium; Student is able to examine patient in puerperium.
F.U18	give recommendations, indications and contraindications to use contraceptives;

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

5. Additional effects of learning *(non-compulsory)*

Number of effect of learning	Effects in the fields of:
Knowledge – Graduate knows and understands:	
K1	Student respects medical confidentiality and patient's rights.
Skills– Graduate is able to:	
S1	Student is guided by the good of the patients, putting them in the foreground.
Social Competencies – Graduate is ready for:	
SC1	Able to establish and maintain a deep and respectful contact with the patient.

6. Classes

Form of class	Class contents	Effects of Learning
SEMINARS (S)	S1- Pregnancy, labour and puerperium – practical guidelines S2- Pregnancy in diabetic woman. Complication of hypertension in pregnancy. Infection in pregnancy.	F.W9 p. 2, F.U15, F.U17

	S3- Uterine function disorders – management. Induction of labour. S4- Treatment of internal diseases in pregnancy S5- Practical guidelines of abortion S6- Premature labour in practice. S7- Life threatening and emergency cases in obstetrics. S8- Infections and inflammations of the female genital tract – diagnosis and treatment. Acute diseases of the abdominal cavity in gynaecology - management. 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 gyneacological 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	F.W9 p. 2, F.U13, F.U14, F.U16 F.W9 p. 2-G.K3, F.U13, F.U14, F.U16 F.W9 p. 2- G.K3, F.U13, F.U14, F.U16 F.W9 p. 2-G.K3 F.U13, F.U14, F.U16 F.W9 p. 2, F.U13, F.U14, F.U16 F.W9 p. 3 F.W9 p. 2, G.K3 F.W9 p. 3 F.W9 p. 1, F.U18 F.W9 p. 2- G.K3 F.W9 p. 3
Classes (C)	Clinical practice in wards, practical classes with phantom demonstrations	F.U13- F.U18
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
F.W9 p. 1-7; F.U13, F.U14, F.U15, F.U16, F.U17, F.U18; K1, S1, SC1	Student’s presence confirmed in the student’s card (S+C)	Acceptable understanding of learning outcomes
	Student’s presence confirmed in the student’s card (C)	Acceptable understanding of learn 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 gyneacology.
- 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.

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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.

Surgery – Specialty

1. IMPRINT	
Academic Year	2026/2027
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 Czerniakowski Hospital 19/25 Stępińska St., 00-739 Warsaw Phone: 48 22 318 63 90 e-mail:
Head of Educational Unit / Heads of Educational Units	Associate Professor Zoran Stojcev MD, PhD: stojcevz@gmail.com
Course coordinator	Małgorzata Polańska- Płachta MD, PhD, eustacha2@gmail.com Łukasz Kaczorowski MD, lukasz.m.kaczorowski@gmail.com

Person responsible for syllabus	Małgorzata Polańska- Płachta MD, PhD; malgorzata.polanska-plachta@wum.edu.pl Łukasz Kaczorowski MD; lukasz.kaczorowski@wum.edu.pl
Teachers	Mateusz Burdzel MD: mateusz.burdzel@wum.edu.pl Katarzyna Cybula MD; Magdalena Czach MD Magdalena Czerwińska MD; Mariusz Frączek MD PhD: mariusz.fraczek@wum.edu.pl Łukasz Kaczorowski MD; Agnieszka Kwiatkowska MD; Inga Kowalczyk MD, Aneta Obcowska-Hamerska MD PhD; aneta.obcowska-hamerska@wum.edu.pl Agata Pomianowska MD; Małgorzata Polańska-Płachta MD PhD; malgorzata.polanska-plachta@wum.edu.pl Zoran Stojcev MD,PhD: stojcevz@gmail.com Magdalena Tytkie MD; Mariusz Wyleżoł MD, PhD: mariusz.wylezol@wum.edu.pl Simon Ziemka MD: simon.ziemka@wum.edu.pl

2. BASIC INFORMATION

Year and semester of studies	6th year, XII spring semester	**Number of ECTS credits**	6.00

FORMS OF CLASSES **Contacting hours with academic teacher**	**Number of hours**	**ECTS credits calculation**
Lecture (L)	0	0
Seminar (S)	15	0,60
Classes (C)	75	3,00
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	60	2,40

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

Code and number of effect of learning in accordance with standards of learning	**Effects in the field of:** *(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)* F.W1, F.W3, F.W4, F.W5, D.W4, F.W10 p. 1-3, F.W13 p. 3 D.U5, D.U12, D.U15, E.U1, E.U3, E.U7, E.U16, E.U29 p. 2, 5, 7, F.U1, F.U2, F.U3, F.U5, F.U6, F.U12, F.U21, F.U22
Knowledge – Graduate* knows and understands:	
F.W1	Student knows and understands 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: a) Acute and chronic abdominal diseases b) Thoracic diseases c) limb and head diseases, head trauma d) bone fractures and organ injuries, politrauma
F.W3	Student knows indications, complications of the most common types of surgeries
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;
D.W4	social approaches to the meaning of health, illness, disability and aging, social consequences of illnesses, disability and socio-cultural barriers, as well as the applicable concept of life quality conditioned by health condition;
F.W10 p. 1-3	problems of contemporary imaging studies, in particular: 1) radiological symptomatology of basic diseases, 2) instrumental methods and imaging techniques used to perform therapeutic procedures, 3) indications, contraindications and preparation of patients for particular types of imaging examinations and contraindications to the use of contrast agents;
F.W13 p. 3	causes, symptoms, principles of diagnosis and therapeutic treatment in the case of the most common diseases of the central nervous system in terms of: 3) cranial-cerebral injuries,
Skills– Graduate* is able to:	
D.U5	conduct an interview with an adult patient, a child and the family with empathy and listening actively; is able to discuss the patient's life situation;
D.U12	communicate with the team, sharing constructive feedback and support;
D.U15	observe patient's rights;
E.U1	collect medical history from adult patients;

E.U3	conduct a complete and targeted physical examination in adults;
E.U7	evaluate the general condition, the state of consciousness and awareness of a patient;
E.U16	plan diagnostic, therapeutic and preventive treatment;
E.U29 p. 2, 5, 7	perform the basic medical procedures , including: 2) vital signs monitoring with the aid of a pulse oximeter and cardiac monitor, 5) intravenous, intramuscular, subcutaneous injections, intravenous cannulation, venous blood sampling, blood culture taking, arterial and capillary blood sampling, 7) male and female urinary bladder catheterisation, nasogastric tube placement, stomach lavage, enema,
F.U1	assist in a typical surgery, prepare the surgical field and use local anaesthetics at the operated area;
F.U2	use the basic surgical tools;
F.U3	observe the rules of asepsis and antisepsis;
F.U5	place a venous access;
F.U6	examine nipples, lymph glands, thyroid gland and abdomen in the context of acute abdomen, as well as conduct the per rectum palpation;
F.U12	monitor perioperative care with the aid of basic vital signs;
F.U21	assess an unconscious patient according to the international point scales;
F.U22	diagnose the symptoms of intracranial hypertension;

** 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 in the fields of:**
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- Paritcipation in surgeries. C5- Outpatient Department. C6- Basic suturing techniques. C7- Ultrasound imaging as a diagnostic and therapeutic tool.	F.W1, F.W3, F.W4, F.W5, D.W4, F.W10 p. 1-3, F.W13 p. 3 D.U5, D.U12, D.U15, E.U1, E.U3, E.U7, E.U16, E.U29 p. 2, 5, 7, F.U1, F.U2, F.U3, F.U5, F.U6, F.U12, F.U21, F.U22
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.	F.W1, F.W3, F.W4, F.W5, D.W4, F.W10 p. 1-3, F.W13 p. 3 D.U5, D.U12, D.U15, E.U1, E.U3, E.U7, E.U16, E.U29 p. 2, 5, 7, F.U1, F.U2, F.U3, F.U5, F.U6, F.U12, F.U21, F.U22

7. Literature

Obligatory

Priciples 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
F.W1, F.W3, F.W4, F.W5, D.W4, F.W10 p. 1-3, F.W13 p. 3 D.U5, D.U12, D.U15, E.U1, E.U3, E.U7, E.U16, E.U29 p. 2, 5, 7, F.U1, F.U2, F.U3, F.U5, F.U6, F.U12, F.U21, F.U22	Students are assessed on the grounds of their regular attendance at seminars and active participation in bedside classes	Attendence

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.

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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.

UROLOGY - specialty chosen by a student

1. IMPRINT	
Academic Year	2026/2027
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 e-mail: wszablonski@wum.edu.pl

Person responsible for syllabus	dr. Waldemar Szabłoński MD PhD e-mail: 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 **Contacting hours with academic teacher**	**Number of hours**	**ECTS credits calculation**
Lecture (L)	0	
Seminar (S)	15	0,6
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	60	2,4

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.
04	Getting practical skills in using the equipment used in urology
05	Extending knowledge on the symptoms and the course of most common diseases of the urinary system.
06	Teaching practical management in urologic emergencies.
07	Strengthening knowledge on symptoms, diagnostics, treatment and prognosis of urinary tract and male genital tract neoplasms.

08	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 the field of:** *(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)*
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 in the fields of:**
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	Efects 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	F.W1, F.W3, F.W4, F.W5, F.W10 p. 1,2,3, F.U1, F.U2, F.U3, F.U4, F.U6, F.U23, F.U24, K1, K2, SC1, SC2
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	F.W1, F.W3, F.W4, F.W5, F.W10 p. 1,2,3, F.U1, F.U2, F.U3, F.U4, F.U6, F.U23, F.U24, K1, K2, SC1, SC2

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

1. 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 p. 1,2,3, F.U1, F.U2, F.U3, F.U4, F.U6, F.U23, F.U24, K1, K2, SC1, SC2	Practical skills examination	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)*

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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.

PSYCHIATRY - specialty chosen by a student

1. IMPRINT	
Academic Year	2026/2027
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 stidues
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 **Contacting hours with academic teacher**	**Number of hours**	**ECTS credits calculation**
Lecture (L)	0	0
Seminar (S)	15	1,60
Classes (C)	75	3,00
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	60	2,40

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 *(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 the field of:** *(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)*
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 in the fields of:**
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**

Seminar 1 – (3 hours)	1. Sexuality and its assessment. 2. Screening tools of mental disorders in general practice 3. Psychoeducation and shaping motivation for a psychiatric treatment in general practive	*E.W16, E.W21*
Seminar 2 – (3 hours)	1. Current guidelines of management with agitation and delirium 2. Management with patients with personality disorders in general practice	*E.W16*
Seminar 3 – (3 hours)	1. Increasing the patient adherence to recommended treatment according to rules of empowerment	*E.W22*
Seminar 4 – (3 hours.)	1. Management with patients with mental disorders in general practice	*E.W16, E.W20*
Seminar 5 – (3 hours.)	1. Environmental psychiatry rules and challenges	*E.W22*
Classes 1 – 12 - (75 hours.)	1. Understanding of a patient with mental disorder from general practitioner perspective – case studies – 10 days. 2. Collaboration of general practitioner with a psychologist – 2 days	*E.U5, E.U12, E.U13, E.U14, E.U15, E.U16, E.U18, E.U20, E.U23, E.U24, E.U32, E.U38*

7. LITERATURE

Obligatory

1. Semple D, Smyth R. Oxford Handbook of Psychiatry. Fourth Edition. Oxford University Press. 2019.
2. Tyrer P. Making Sense of the ICD-11: For Mental Health Professionals. Cambridge University Press. 2023

Supplementary

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.

Anesthesiology and Intensive Care
chosen specialty

1. IMPRINT	
Academic Year	2026/2027
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline	Medical sciences
Study Profile	General academic
Level of studies	1st level
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	1st 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 PhD, Telephone: +48 22 502 1721; email: marek.janiak@wum.edu.pl
Person responsible for syllabus	Marek Janiak MD PhD, Telephone: +48 22 502 1721; email: marek.janiak@wum.edu.pl
Teachers	Jan Pluta MD PhD, jan.pluta@wum.edu.pl; Beata Błaszczyk MD PhD, beata.blaszczyk@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 MD PhD, pawel.zatorski@wum.edu.pl; Grzegorz Górniewski MD PhD, grzegorz.gorniewski@wum.edu.pl; Marek Janiak MD PhD, marek.janiak@wum.edu.pl; Piotr Mieszczański MD, piotr.mieszczanski@wum.edu.pl; Romana Cal MD, romana.cal@wum.edu.pl; Przemysław Bornsztajn MD, przemyslaw.bornsztajn@wum.edu.pl.

2. BASIC INFORMATION

Year and semester of studies	VI year, XII semester	Number of ECTS credits	6.00

FORMS OF CLASSES Contacting hours with academic teacher	Number of hours	ECTS credits calculation
Lecture (L)		
Seminar (S)	15	0.6
Classes (C)	75	3.0
e-learning (e-L)		
Practical classes (PC)		
Work placement (WP)		
Unassisted student's work		
Preparation for classes and completions	60	2.4

3. COURSE OBJECTIVES

O1	Widen knowledge on general and regional anesthesia
O2	Teach principles of pain management in differing clinical situations
O3	Familiarize on principles of patient management in intensive care
O4	Familiarize with the use of ultrasound techniques in anesthesiology and intensive care
O5	Educate on management of acute bleeding and hemostatic disorders

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 the field of:
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 in the fields of:
Knowledge – Graduate knows and understands:	
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	Management of patient in ITU. Chosen novelties in anesthesia and intensive care. Death.	E.W29., E.W41., F.W4., F.W6.
S2	Respiratory failure, mechanical ventilation, extracorporeal therapies. Septic shock. Antibiotic therapy.	F.W6., C.W29., E.U24., E.U16.
S3	Novel methods of hemostatic assessment. Management in massive hemorrhage.	E.W41., C.W29., E.U21., E.U25.
S4	Neuroanesthesia. Bariatric anesthesia. Point-of-care ultrasound in anesthesia and intensive care.	F.U10., E.U16., F.W6.
S5	Pain management. Obstetric anesthesia.	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 post-anesthesia 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

1. Morgan & Mikhail's Clinical Anesthesiology, 7e (available via www.bibloteka.wum.edu.pl)
2. "Basic Clinical Anesthesia" Paul K Sikka; Shawn T Beaman; James A Street 2015
3. European Resuscitation Council (ERC) Guidelines on Advanced Life Support (ALS) 2025 (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, 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 presence card – presence and activity of student during class is recorded Test – multiple choice questions (MCQs) 15 questions	Presence in classes recorded in student presence card is submitted at the end of the course to the secretariat CRITERIA FOR MARKS: 2.0 (fail) 0-7 correct answers 3.0 (satisfactory) 8-9 correct 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

9. ADDITIONAL INFORMATION

During practical classes with patients, we recommend medical dress with short sleeves. Avoid wearing personal clothing. Medical aprons should be buttoned when on personal clothing. Long hair should be tied up. It is mandatory to change footwear in accordance with health and safety regulations. During practical classes, the "nothing below elbow" rule should be followed i.e. no watches, jewelry and nail paint. The "5 moments of hand hygiene" should be applied. Diagnostic gloves should be done after hand cleaning and/or disinfection, directly before contact with a patient.

Punctuality is mandatory. A student not prepared may not be allowed to take part in classes. No unexplained absences are allowed. Conditions for completion of course: presence in all mandatory classes and at least a satisfactory result in the final test. Students are entitled to two re-take tests.

Didactic consultations: Marek Janiak MD PhD (marek.janiak@wum.edu.pl), Jan Pluta MD PhD (jan.pluta@wum.edu.pl)

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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 Speciality

1. IMPRINT	
Academic Year	2026/2027
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- compolsory
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	Radosław Pietrzak MD, PhD; e-mail: radoslaw.pietrzak@wum.edu.pl
Course coordinator	Mateusz Puchalski, MD; e-mail: mateusz.puchalski@wum.edu.pl
Person responsible for syllabus	Mateusz Puchalski, MD; e-mail: mateusz.puchalski@wum.edu.pl
Teachers	Radosław Pietrzak, MD PhD; radoslaw.pietrzak@wum.edu.pl Professor Bożena Werner, MD, PhD e-mail: bozena.werner@wum.edu.pl Beata Kucińska, MD PhD; beata.kucinska@wum.edu.pl Halszka Kamińska, MD PhD; halszka.kaminska@wum.edu.pl Tomasz Książczyk, MD, PhD; tomasz.ksiazczyk@wum.edu.pl Anna Chanas, MD; anna.chanas@uckwum.pl Katarzyna Łuczak-Woźniak, MD, PhD; katarzyna.luczak-wozniak@wum.edu.pl Agnieszka Pskit-Hanuszczak, MD; agnieszka.pskit@uckwum.pl Ewa Smereczyńska-Wierzbicka, MD, PhD, ewa.wierzbicka@uckwum.pl Małgorzata Ludzia, MD; mludzia@wum.edu.pl

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2. BASIC INFORMATION

Year and semester of studies	6th year 2nd semester	**Number of ECTS credits**	6.00

FORMS OF CLASSES **Contacting hours with academic teacher**	**Number of hours**	**ECTS credits calculation**
Lecture (L)		
Seminar (S)	15	0.6
Classes (C)	75	3.0
e-learning (e-L)		
Practical classes (PC)		
Work placement (WP)		
Unassisted student's work		
Preparation for classes and completions	60	2.4

3. COURSE OBJECTIVES

O1	Knowledge about the principles of the assessment, differential diagnosis and treatment of the diseases in paediatrics and pediatric cardiology.
O2	Apply basic diagnostic and therapeutic strategies in the management of acute and chronic conditions in children, considering age-specific differences.
O3	Rules of conduct in emergency situations in pediatrics.
O4	Demonstrate effective and empathetic communication with children and their caregivers, tailored to developmental stage and clinical context.
O5	Plan preventive care appropriate to the child's age, including vaccinations, nutrition, and screening

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 the field of:** *(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/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 (time)**
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 pulsoximetry , 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	1. Clinical evaluation of a child with suspected heart disease. 2. Paediatric arrhythmias – recognition and initial management based on clinical cases. 3. Congenital heart defects in children – case-based diagnostic and treatment approach. 4. Paediatric cardiac emergencies – recognition and initial management. 5. Cardiac and non-cardiac causes of chest pain, fatigue and syncope in children.	EW1 EW2 EW3 EW6 AW1 DW6 CW9
Practical classes	*BED SIDE CALSSESS* *Training of practical issues connected with making history, signs and symptoms assessment as well as diagnosis in paediatrics*	EU2 EU4 EU13 EU29 SC1 SC2 SC3 SC4 CW9

7. Literature

Obligatory

1. *Nelson Essentials of Pediatrics. Marcdante KJ, Kliegman RM, Elsevier Saunders,*
2. *Park's Pediatric Cardiology for Practitioners, Myung K. Park, MD, FAAP, FACC*

Supplementary

1. *Nelson Textbook of Pediatrics. Kliegman RM, Stanton BMD, Elsevier Saunders.*

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
EW1, EW2, EW3, EW6, AW1, DW6, CW9 EU2, EU4, EU13, EU29, SC1, SC2, SC3, SC4, CW9	The correct execution of examinations on bedside classes	Positive evaluation of the teaching assistant
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

1. Dress Code and Hygiene
   - Students are required to change into clean shoes and wear a white coat or scrubs during all clinical activities.
   - Long hair must be tied back, and jewelry is not allowed for hygiene and safety reasons.
   - Nails must be short and clean; artificial nails and nail polish are not permitted.
2. Preparation and Participation
   - Attendance at all clinical classes is mandatory.
   - Late arrival may result in exclusion from the class.
   - Absences must be justified in accordance with university regulations.
   - Students must have basic knowledge of heart anatomy and the required entry-level knowledge for each seminar.
   - Entry tests or knowledge checks may be conducted before classes.
   - Students are expected to actively participate in all educational activities.
3. Conduct at the Patient's Bedside
   - Students must treat all patients with respect, empathy, and professionalism.
   - Before examination or conversation, students must introduce themselves and explain the purpose of their presence.
   - Any physical examination or patient contact must be done under supervision, with informed consent from the patient or legal guardian.
   - Discussions about the patient's condition must be limited, focused, and appropriate.
4. Confidentiality and Medical Ethics
   - All students are bound by medical confidentiality.
   - This applies to both direct patient contact and access to medical records.
   - Students are strictly prohibited from sharing any information regarding:
     - The patient's condition,
     - Diagnostic results,
     - Treatment or prognosis.
   - All case discussions must be held outside the patient's room, without the presence of the patient or unrelated persons.

- Taking photos, videos, or recordings involving:
    - Patients,
    - Medical procedures,
    - Medical documentation,

      is strictly forbidden.

5. Medical Documentation
    - Students are not permitted to write in official medical records unless explicitly authorized by supervising staff.
    - Any case notes made for educational purposes must be anonymized and handled responsibly.
6. Cooperation with Clinical Staff
    - Students are required to follow instructions given by supervising doctors and nurses.
    - All clinical tasks must be performed under supervision, unless clearly stated otherwise.
    - Any concerns or uncertainties must be immediately reported to the supervisor.
7. Mobile Phones and Devices
    - Mobile phones must be muted or turned off during classes.
    - Using phones or other devices is only permitted for educational purposes, with the consent of the supervisor.

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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.

OPHTHALMOLOGY - specialty chosen by a student

1. IMPRINT	
Academic Year	2026/2027
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 (2WF) Clinical Ophthalmology Hospital in Warsaw 13 Sierakowskiego Str, 03-709 Warsaw e-mail: klinika@spkso.waw.pl , phone: 22 511 63 77
Head of Educational Unit / Heads of Educational Units	Professor Jacek P. Szaflik MD, PhD
Course coordinator	Monika Łazicka-Gałecka, MD, PhD e-mail: monika.lazicka-galecka@wum.edu.pl

Person responsible for syllabus	Monika Łazicka-Gałecka, MD, PhD e-mail: Monika.łazicka-gałecka@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 Monika Udziela, MD, PhD Joanna Przybek-Skrzypecka MD, PhD, FEBO Monika Łazicka-Gałecka MD, PhD

2. BASIC INFORMATION

Year and semester of studies	VI year, summer semester	**Number of ECTS credits**	6

FORMS OF CLASSES **Contacting hours with academic teacher**	**Number of hours**	**ECTS credits calculation**
Lecture (L)	0	
Seminar (S)	15	0,6
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	60	2,4

3. COURSE OBJECTIVES

O1	Improving the knowledge of eye diseases, novel forms of treatment in ophthalmology (genetherapy, clinicaltrials)
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 the field of:** *(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)*
Knowledge – Graduate* knows and understands:	
F.W11	1) treatment methods of the most common eye disorders, ophthalmological complications of systemie diseases with their ophthalmological symptomatology and proper procedures to be used in such cases, 2) ophthalmological complications of systemie 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 specialistaid and provide initial, qualifiedaid 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 in the fields of:**
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	Efects of learning
Seminars	1. Theoretical seminars from according to the plan: S1 – Basics of vitreoretinal surgery S2 – Refractive errrs S3 - Myopia control in children S4 - Eyelids and orbit surgery S5 - Diagnostic tools in anterior segment eye diseases S6 – Ocular immunology and high risk corneal transplants S7 – Diabetic eye disease S8 – Keratoconus: what's new in the management? S9 - Infectious Case-based learning in common corneal and conjunc diseases S10 - Visual illusions - management and treatment S11 - Laser treatment in ophthalmology S12 - Cataract - uncomplicated and complicated cases- surgical techniqu the most common eye disease S13 – Corneal transplantations –immunological pathology and high transplants S14 – Impact of general diseases and general medications on eye 2. Case-based learning: Cases reports from cornea, glaucoma, cataract, retinal diseases, ocular oncology	F.W11 F.W3 F.W10 p3 F.W14 F.W13 p.3
Practical classes	C1-C15: students consolidate their skills, i.e. collecting medical history; perform ophthalmic examinations, including visual acuity, color vision, comparative field of view, autoceratorefractometer, 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, practice in the ophthalmological simulation center	F.U20 F.U19 F.U3 F.W11 F.W3 F.W10 F.W14 F.W13

7. LITERATURE

Obligatory

1. Materials from the seminars
2. Articles provided by the teachers

Supplementary

2. „Ophthalmology at a Glance" Jane Olver, Lorraine Cassidy, ISBN: 978-0-632-06473-1, May 2005, ©2005, Wiley-Blackwell
3. "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 *(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 start the seminar at. 8.30 in the Conference Room on the first floor. The cloakroom for students is located on the 1st 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 (clinika@spkso.waw.pl or by phone: 22 5116377 (Clinic's office). Only one absence is acceptable. 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. Jewelry (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.

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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.

NEUROLOGY - specialty chosen by a student

1. IMPRINT	
Academic Year	2026/2027
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 Cegłowska 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 Sebastian Bojanowski MD Jakub Stolarski PhD, MPT Beata Mielańczuk – Lubecka PhD, MPT Jeremi Kania MPT Katarzyna Miszczak speech therapist Anna Kocwa-Karnaś M.A., PhD Piotr Chądzyński MD Paulina Fonderska MD Patryk Sochań MD

2. BASIC INFORMATION

Year and semester of studies	VI year, summer semester	**Number of ECTS credits**	6

FORMS OF CLASSES **Contacting hours with academic teacher**	**Number of hours**	**ECTS credits calculation**
Lecture (L)	0	
Seminar (S)	15	0,6
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	60	2,4

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
04	The skills interpreting the results of basic additional tests (electrophysiological, neuroimaging) used in neurological diagnostics
05	Knowledge of patient management in neurological intensive care and emergency room

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 the field of:** *(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)*
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 in the fields of:**
Knowledge – Graduate knows and understands:	
K1	Demonstrate interview and physical examination considering ethical standards and ability to justify hospitalization and additional diagnostic tests

K2	knows and understand the neurological syndromes
Skills– Graduate is able to:	
S1	The ability to recognize and treat basic neurological diseases
S2	The skills interpreting the results of basic additional tests (electrophysiological, neuroimaging) used in neurological diagnostics
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	Efects 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 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	E.W1, E.W13, E.W14
Classes	1. Physical neurological and neuropsychological examination and its interpretation 2. Usefulness and interpretation of diagnostic tests needed to the diagnostic process	E.U.1 E.U3 E.U7 E.U12 E.U24

	3. Participating in departmental duties – visiting patients, medical procedures 4. Clinical picture and treatment of neurological diseases	

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
	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. 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

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ATTENTION
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Internal Medicine - Cardiology – - specialty chosen by a student

1. IMPRINT	
Academic Year	2026/2027
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. Marcin Grabowski, MD PhD, phone: 22 599 29 58, e-mail: marcin.grabowski@wum.edu.pl
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 Główczyńska MD, Ewa Szczerba MD, Agata Tymińska MD, Krzysztof Ozierański MD, Łukasz Januszkiewicz MD, Michał Peller MD, Piotr Lodziński MD, Szymon Jonik MD, Agnieszka Kołodzińska MD, Sonia Borodzicz MD, Mariusz Tomaniak 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	0,6
Classes (C)	75	3,0
e-learning (e-L)		
Practical classes (PC)		
Work placement (WP)		
Unassisted student's work		
Preparation for classes and completions	60	2,4

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	**Effects in the field of:** *(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)* E.W3 p. 2, E.W.7 p. 1 E.U.1; E.U.3: E.U.13 E.U 12; E.U.16, G.S1
Knowledge – Graduate* knows and understands:	
E.W3 p. 2	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 in the fields of:**
Knowledge – Graduate knows and understands:	
K1	As above
Skills– Graduate is able to:	

S1	As above
Social Competencies – Graduate is ready for:	
SC1	As above

6. Classes

Form of class	Class contents	Effects of Learning
Seminars/e-learning/bedside classes	Intensive cardiac care 1 (K1, S1, C1)	E.W3 p. 2, E.W.7 p. 1 E.U.1; E.U.3: E.U.13 E.U 12; E.U.16, G.S1
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. John Camm, Thomas F. Lüscher, Gerard Maurer Patrick Serruys The ESC Textbook of Cardiovascular Medicine (3 edn), OUP Oxford, 2019.
2. Guidelines of the European Society of Cardiology (http://www.escardio.org/guidelines surveys/escguidelines/Pages/GuidelinesList.aspx)

Supplementary

1. Eugene Braunwald, ed., Heart Disease. A Textbook of Cardiovascular Medicine, 12th edition, Philadelphia: W.B. Saunders Company, 2021.
2. Barry London Cardiology: An Illustrated Textbook, JP Medical Publishers 2020.
3. Crash Course Cardiology Elsevier eBook on VitalSource, 5th Edition 2019

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	**Ways of verifying the effect of learning**	**Completion criterion**
E.W3 p. 2, E.W.7 p. 1 E.U.1; E.U.3: E.U.13 E.U 12; E.U.16, G.S1	*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.
Credit and presence	Oral credit on the last day of the classes. A list of questions is sent on the first day of classes and is also available on the department's website (https://cardiology.wum.edu.pl/english-division). Credit rules: With 100% attendance, 2 questions from the Basic questions list. For each absence, an additional question from Additional questions list (up to 3 absences). Each day of absence should be made up with a different group at a later date. More than 3 absences - it is not possible to pass the classes (block repetition)
Cardiology Club	contact: Marek Wawrzacz MD; marekjakub.wawrzacz@gmail.com

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ATTENTION

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