

# Vaccinology in practice

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 Social Medicine and Public Health Medical University of Warsaw 3 Oczki St, 02-007 Warsaw Phone: 22-621-52-56, 22-621-51-97 E-mail: zmsizp@wum.edu.pl	

Head of Educational Unit / Heads of Educational Units	Prof. Aneta Nitsch-Osuch, MD, PhD
Course coordinator	Katarzyna Lewtak, MD, PhD e-mail: katarzyna.lewtak@wum.edu.pl
Person responsible for syllabus)	Katarzyna Lewtak, MD, PhD e-mail: katarzyna.lewtak@wum.edu.pl
Teachers	Prof. Aneta Nitsch-Osuch, MD, PhD Katarzyna Lewtak, MD, PhD

2. BASIC INFORMATION				
Year and semester of studies	I-VI year summer and winter semester		Number of ECTS credits	2.00
	FORMS OF CLASSES	Number of hours	ECTS credits calculation	
Contacting hours with a	academic teacher			
Lecture (L)				
Seminar (S)		30 (e-learning)	1.00	
Classes (C)				
e-learning (e-L)				
Practical classes (PC)				
Work placement (WP)				
Unassisted student's work				
Preparation for classes and completions		30	1.00	

3.	COURSE OBJECTIVES
01	Understanding the types end technology platforms of vaccines.
02	Understanding the concept of life long approach to immunization.
03	Comprehensive understanding of vaccine hesitancy problem.
04	Having knowledge about the most common indications and contraindications for vaccines, including risk group patients.
O5	Having knowledge about recommended vacccines for pregnant women (maternal immunization rules and principles) .
06	Ability to provide a medical advice for patients who require vaccinations.

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

### Knowledge - Graduate\* knows and understands:

C.K20	knows and understands the principles related to treatment of viral, bacterial, mycotic and parasitic infections;
E.K8	knows the symptoms of viral hepatitis, HIV infection and the acquired immune deficiency syndrome (AIDS) in infectious and parasitic diseases:
E.K9	principles of immunisation against infectious diseases in children and adults;
E.K18	knows life threatening conditions;
G.K6	health situation in the Republic of Poland and in the world;
G.K13	knows the principles of disease prevention and improvement of the health condition;
G.K14	knows the principles of epidemiological processing of the infectious disease focus, including vaccinations;

### Skills- Graduate\* is able to:

E.S1	carries out differential diagnosis of the most common diseases of adults;		
E.S3	plans the diagnostic and therapeutic procedures in case of the most common diseases of adults;		
E.S7	qualifies the patient to vaccinations;		
E.S8	recognises life threatening conditions;		
G.S3	defines basic terms in the area of prophylaxis, health promotion and environmental hygiene;		
G.S11	determines health related needs and plans activities in the area of prophylaxis and health promotion;		
G.S18	evaluates the level of threats to the health, caused by the condition of the air, water, soil and food quality;		

<sup>\*</sup> 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 in time learning

# Knowledge – Graduate knows and understands:

Types of vaccinations and technology platforms;

K2	vaccine hesitancy problem.
К3	vaccine recommendations and requirements.

# Skills- Graduate is able to:

	S1	help patient to choose vaccine, including risk group patients and pregnant women;
describe and recognise a patient with a hesitant attitude to v		describe and recognise a patient with a hesitant attitude to vaccines;
	S3	plan a vaccination schedule for a patient.

## Social Competencies – Graduate is ready for:

SC1	being familiar with current vaccine recommendations;
SC2	identifying the indications and contraindications for vaccines;
SC3 accessing reliable evidence-based country specific information about vaccine / current epidemiologica	
SC4	delivering correct advice using reliable information resources tailored to the individual needs of each patient (regarding vaccines and vaccination schedule).

6. CLASSES			
Form of class	Class contents	Effects of Learning	
(e-L) seminar 1 asynchronous online course	Introduction to vaccinology.  Types of vaccines and technological platforms for vaccine production.	E.K9; E.K18; G.K6; G.K13; G.K14; E.S1; E.S3; E.S8; G.S3; G.S11; G.S18	
(e-L) seminar 2 and seminar 3 asynchronous online course	Life long approach to vaccination	C.K20; E.K18; G.K13; G.K14; E.S1; E.S3; E.S8; G.S18	
(e-L) seminar 4 and seminar 4 asynchronous online course	Maternal immunization – general rules and principles	E.K9; E.K18; G.K6; G.K13; G.K14; E.S1; E.S7; E.S8; G.S3; G.S11	
(e-L) seminar 5 and seminar 6 asynchronous online course	Adult immunization	C.K20; G.K6; G.K13; G.K14; E.S1; E.S3; G.S3; G.S11	
(e-L) seminar 7 asynchronous online course	Vaccine hesitancy	C.K20; E.K9; E.K18; G.K13; G.K14; E.S7; E.S8; G.S3; G.S11; G.S18	
(e-L) seminar 8 and seminar 9 asynchronous online course	Adult immunization – practical aspects	E.K9; E.K18; G.K13; G.K14; E.S1; E.S3; E.S7; E.S8; G.S3; G.S11; G.S18	
(e-L) seminar 10 asynchronous online course	History of vaccines and vaccinology	E.K9; E.K18; G.K13; G.K14; E.S1; E.S3; E.S7; E.S8; G.S3; G.S11; G.S18	

7. LITERATURE	
Obligatory	

1. Plotkin S, Orenstein W, Offit P, Edwards K: Plotkin's vaccines. 8th edition. Elsevier 2022.

#### Supplementary

1.

#### 8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
C.K20; E.K8; E.K9; E.K18;	1. Quizzes, written assignments	1. credit
G.K6; G.K13; G.K14; E.S1;	2. Test (MCQ) – 30 questions	2. Requirements for a pass:
E.S3; E.S7; E.S8; G.S3; G.S11;		minimum 20 points at the final
G.S18		test

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

The course is available on the platform www.e-learning.wum.edu.pl. Student must learn all materials uploaded to the modules on the platform. After each module there are questions related to its subject.

Student must prepare travel advices for patients (Task 1 and Task 2), send it to the teacher (using e-learning platform) and receive a positive evaluation. Student must sent them before proceeding to the final test.

Student must pass the final test (available on the e-learning platform) to obtain a credit.

Printing the certificate is possible only if the student has fulfilled both criteria: passed the final test and a received positive evaluation of the Task 1 and Task 2.

Students are obligatory to check MUW student email account as all information are sent only by formal MUW mails.

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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.