



TOTAL per year: <b>20 hours</b>													
Educational objectives (max. 6 items)													
<b>C1.</b> Letting know students etiopathogenesis, pathophysiology and clinic of cardiovascular disease.													
<b>C2.</b> Giving epidemiological data concerning cardiovascular disease worldwide and in Poland.													
<b>C3.</b> Letting know students the most important risk factors of atherosclerosis.													
<b>C4.</b> Increasing awareness of healthy life-style, especially physical activity.													
<b>C5.</b> Education in gaining a competence in estimating the global cardiovascular risk.													
<b>C6.</b> Conveying a knowledge concerning applying the complex preventive and rehabilitation action in subjects with cardiovascular risk.													
Education result matrix for module/course in relation to verification methods of the intended education result and the type of class													
Number of course education result	Number of major education result	Student who completes the module/course knows/is able to	Methods of verification of intended education results (forming and summarising)	Form of didactic class <i>**enter the abbreviation</i>									
<b>K 01</b>	B.W28, E.W7	Student knows pathophysiology of atherosclerosis	oral response	<b>MC</b>									
<b>K 02</b>	B.W25,W29 E.W7	Student describes etiopathogenesis, epidemiology and symptoms of cardiovascular disease and metabolic syndrome	oral response, discussion										
<b>K 03</b>	B.W28, E.W8	Student lists out principles and goals of the 3-stage pyramid of CVD prevention by Benjamin and Smith	discussion										
<b>K 04</b>	B.W28, E.W7	Student analyses modifiable and unmodifiable risk factors of atherosclerosis	presentation										
<b>K 05</b>	E.W31	Student defines phases and forms of cardiac rehabilitation	oral response										
<b>S 01</b>	B.U9, E.U16	Student is able to determine and interpret the global cardiovascular risk using the SCORE chart	Calculation using SCORE chart	<b>MC</b>									
<b>S 02</b>	B.U9, E.U23	Student is able to define cardio-vasoprotective effects of healthy life-style, esp. of regular physical activity and is capable to assign its intensity level recommended for CVD prevention	Using the formulas										
<b>S 03</b>	E.20, E.23	Student is able to determine principle of enrolling patients to cardiac training and criteria of assessing its final outcomes	Case analysis, interpretation of exercise ECG										
<b>** L</b> - lecture; <b>SE</b> - seminar; <b>AC</b> – auditorium classes; <b>MC</b> – major classes (non-clinical); <b>CC</b> – clinical classes; <b>LC</b> – laboratory													

classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .

Please mark on scale 1-5 how the above effects place your classes in the following categories:

communication of knowledge, skills or forming attitudes:

Knowledge: 5

Skills: 4

Student's amount of work (balance of ECTS points)

Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
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1. Contact hours:	20
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2. Student's own work (self-study):	6
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Total student's workload	26
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ECTS points for module/course	1,0
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Comments

**Content of classes** (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

Lectures

N/A

Seminars

1-2. Epidemiology of cardiovascular disease (CVD) in the world and in Poland.

3-4. Characteristics, classification and impact of CVD risk factors. Discussing the results of 50-year The Heart Framingham Study.

5-6. Description of essentials of the CVD prevention pyramid after Benjamin and Smith. Features and principles of basic, primary and secondary prevention of CVD.

7-8. Role of regular and long-term physical activity in CVD prevention. Cardio-vasoprotective effect of long-term physical training.

9-10. Beneficial modification of CVD risk factors through physical activity.

11-12. Specificity of CVD prevention in elderly and women.

13-14. Up-to-date methods of registering and remote controlling of benefits of the cardiac training.

15-16. Cardiac rehabilitation: goals, stages, realization. Profits *versus* risk.

17-18. Essentials of enrolling patients to cardiac training and assessing its final outcomes.

19-20. Standards of cardiac training sessions, equipment required, supervision and safety rules.

Practical classes

N/A

Other

**Basic literature:**

1. 2016 European Guidelines on cardiovascular disease prevention in clinical practice. European Heart Journal (2016) 37.

2. 2019 ESC Guidelines on diabetes, pre-diabetes, and cardiovascular diseases developed in collaboration with the EASD. European Heart Journal (2019) 00, 1-69; doi:10.1093/eurheartj/ehz486.

**Additional literature and other materials:**

1. Articles from „European Journal of Cardiovascular Prevention and Rehabilitation”. Publisher: European Association for Cardiovascular Prevention and Rehabilitation.
2. Materials provided by the teacher.

Didactic resources requirements (e.g. laboratory, multimedia projector, other...)  
SCORE charts , laptop, Internet connection, multimedia projector

Preliminary conditions (minimum requirements to be met by the student before starting the module/course)

**Basic knowledge on anatomy and physiology of the cardiovascular system**

Conditions to receive credit for the course (specify the form, criteria and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades).

**Activity during the classes, preparing a multimedia presentation on the chosen topic.**

**Passing the test.**

**Each absence must be made up, including rector's days and dean's hours.**

<b>Grade:</b>	<b>Criteria for credit</b>
Very Good (5.0)	Student freely discusses the all topics, prepares the excellent presentation. Test: 95%-100% of proper responses.
Good Plus (4.5)	Student easy discusses the all topics, prepares the very good presentation. Test: 88%-94% of proper responses.
Good (4.0)	Student correctly knows the topics, prepares good presentation; uses literature from the list. Test: 78%-87% of proper responses.
Satisfactory Plus (3.5)	Student quite correctly knows the topics, prepares quite good presentation; uses some literature from the list. Test: 70-77% of proper responses.
Satisfactory (3.0)	Student knows only very basic topics of course, prepares the presentation; uses only some literature from the list. Test: 60%-69% of proper responses.

<b>Grade:</b>	<b>Criteria for exam (if applicable)</b>
Very Good (5.0)	
Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	

<b>Name of unit teaching course:</b>	<b>Katedra i Klinika Geriatrii (Department and Clinic of Geriatrics)</b>	
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<b>Person responsible for course:</b>	<b>Professor Małgorzata Sobieszczęńska</b>	
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<i>List of persons conducting specific classes:</i>	<i>degree/scientific or professional title</i>	<i>Discipline</i>	<i>Performer profession</i>	<i>Form of classes</i>
<b>Małgorzata Sobieszczęńska</b>	Prof. PhD MD	internal medicine, geriatrics	Physician, u.t.	MC

**Date of Syllabus development**

30.05.2020.

**Syllabus developed by**

Małgorzata Sobieszczęńska

**Signature of Head of teaching unit**

Uniwersytet Medyczny we Wrocławiu  
KATEDRA I KLINIKA GERIATRII  
kierownik

  
prof. dr hab. Małgorzata Sobieszczęńska

**Signature of Faculty Dean**

  
Wrocław Medical University  
Faculty of Health Sciences  
Vice-Dean for Health Sciences  
prof. Beata Sobieszczęńska, PhD

