ul- Marcinkowskiego 1, 50-368 Wrocław tel. 71 784 12 45, taks: 71 794 00 61		Syllabu	ıs 202	0/2021	<u> </u>						
184 12 45, taks: 71 794 00 61	De	scripti	on of tl	he cour	se						
Module/Course	Typical ele	ctrocar	diogra	phic ch	anges	sin	Grou	ıp of de	tailed e	ducatio	on
	geriatric po	pulati	on				resu	lts			
							Grou	ıb	Group	name	
							code	:	Basic S	Science	es
							В		and		
							Е				
									Non-		
									interv	ention	al
									Clinica	al Scier	ices
Faculty	Medicine										
Major	medicine										
Specialties	Not applic	able									
Level of studies	Uniform m		r studie	-s X *							
	1 st degree	-									
	2 nd degree										
	3 rd degree										
Form of studies	postgradu										
Year of studies	X full-time ☐ part-time II-IV Semester X Winter or										
real of studies	11-10				36	emeste	:r				
Type of course	□ obligato	n,						X Sum	mer		
Type of course	L:										
	☐ limited o										
Course	X free cho		ective								
Language of instruction	Xmajor 🗆 l		ا جاءنا							_	
* mark with an X	□ Polish	X Eng	ish 🗆	otner							
IIIaik With all X		Λmc	ount of	hours							
				ıcation							-
(S) (C)	Q Q					l s	9	PE)	(e)	ž	EL)
Lectures (L)	Auditorium classes (AC)	Clinical Classes (CC)	Laboratory Classes (LC)	ditio	Practical Classes with Patient (PCP)	studi	Foreign language Course (FLC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work)	E-learning (EL)
Emin Led	clinic	Clas	Clas	Ş	Patier	ister	Cour	oligat	racti	wo s,	learn
Unit teaching the	rium - not	ii.	aton	latec	vith.	тав	age	on of	nal F	dent	ф
course	uditc	ਹੋ	abor	Simt	ses v	Ses –	langı	izati,	catic	Stu	
304/35	Class			es ir	Clas	Class	eign	ם	>	tudy	
	Major			Class	ctica	ialist	Ŗ	ysica		Self-5	
				(CSC)Classes in Simulated Conditions	Pra	Spec		E			
				~		SCM)Specialist Classes – magister studies					
Winter Semester								I.:			
	10										
Summer Semester		L .					1	L			
Summer Semester	10						T				

OTAL per year:							
		10					

Educational objectives (max. 6 items)

- C1. General description of the geriatric population and its basic ecg problems
- C2. Practical exercises with typical ecg changes of the geriatric population
- C3. Characteristics of the ecg with pacemaker and implantable cardioverter
- C4. Paying students' attention to main problems and typical difficulties in analysis of ecg of the elderly

		odule/course in relation to verification		
		result and the type of class	2.	
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 **enter the abbreviation
K 01	B.W.25 E. W.1 B.W 28	Student defines basic heart diseases in geriatric population and explains what kind of changes in electrocardiography they cause	Discussion, ECG exercise	MC
K02	A. W.1 B. W. 30 B.W.19	Student describes the relations between pathological changes including morphological ones in cardiovascular system and electrocardiographic changes that is thickness of myocardium, enlargement of heart	Power point presentation ECG exercise	MC
, NOS	B.W.25 B. W.28	chambers, scar tissue in the heart muscle Student analyzes relationships between decreased and increased body mass and explains difficulties in interpreting such recordings	Discussion, ECG exercise	MC
K04	E.W.8 B.W.29 E.W.7 E. U.16	Student describes electrocardiographic recordings of the patients with pacemakers and implantable cardioverters-defibrillators (ICD) and explains why in geriatric population the number of implantable devises increase	Discussion, ECG exercise Discussion	МС
	2. 3.13	Student defines the indications to 24-hour ECG Holter monitoring and explains why in geriatric population it is more common necessity, and then student is able make conclusions from this test	Exercises in ECG	МС
S 01	B.U.7 B. U.8	Student resolves problems of ecg changes in the elderly people after myocardial infarct, with hypertrophy of ventricles, with arterial hypertension, with valvular diseases	Evaluation of the ability of the simple ECG description	MC
S 02		Student uses ecg to determine the basic activity of implantable devices eg. pacemakers -student performs simple analysis of the result of Report from 24-ech Holter monitoring and make conclusions	Evaluation of the ability of the diagnosing basic types of stimulation in ECG Evaluation of the ability	MC

		to determine basic
		conclusions from 24-
** L - lecture: SE - seminar: AC — audit	itorium classes: MC – maior classes (non-c	hour ECG monitoring linical); CC — clinical classes; LC — laboratory
classes; SCM – specialist classes (magis	ster studies): CSC – classes in simulated con	nditions; FLC – foreign language course; PCF
	ical education (obligatory); VP – vocational p	
Please mark on scale 1-5 how the	e above effects place your classes in	the following categories:
communication of knowledge, sk		
Knowledge: .4	-	
Skills: 5		
Student's amount of work (balance	ce of ECTS points)	
Student's workload		Student Workload (h)
(class participation, activity, prep	paration, etc.)	(.,,
1. Contact hours:		10
2. Student's own work (self-study	y):	3
Total student's workload		13
ECTS points for module/course		0.5
Comments		
Content of classes (please enter to	opic words of specific classes divided into th	eir didactic form and remember how it is
translated to intended educational effec	cts)	
Lectures		
1 .		
2.		
3.		
Seminars		
1.		
2.		
3.		
Practical classes		
Practical classes		
	escription and discussing the charac	teristic changes in geriatric
population.		
	in the elderly patients with arterial h	
3-Electrocardiographic changes i	in the elderly patients with coronary	artery disease.
4-Electrocardiographic changes i	in the elderly patients with valvular	diseases and discussing the most
common abnormalities.		
5-Discussing ecg in patients with	implantable devices (ICD, pacemak	er) and analysis of ecg.
	ythmias in geriatric patients includir	
7- Exercising with electrocardiog		is rection offes.
8- Discussion of basic mistakes in		
	-	
9- Making own description of EC 10-Practical exercises in ECG	.o or the genatric patients	
TO-LI actical exelcises IU ECG		±
Othor		
Other		
1.		

2.	
3.	

etc

Basic literature (list according to importance, no more than 3 items)

- 1. Advanced ECG: Boards and Beyond. Brendan Phibbs. Elsevier Health Sciences, 2006 294
- 2. 2013 ESC Guidelines on cardiac pacing and cardiac resynchronization therapy The Task Force on cardiac pacing and resynchronization therapy of the European Society of Cardiology (ESC). Developed in collaboration with the European Heart Rhythm Association (EHRA). Authors/Task Force Members The disclosure forms of the authors and reviewers are available on the ESC website www.escardio.org/guidelines. European Heart Journal (2013), 34, 2281–2329.
- 3. Epidemiology of Arrhythmias and Conduction Disorders in Older Adults. Grant V. Chow, Joseph E. Marine, Jerome L. Fleg. Clin Geriatr Med. 2012 Nov; 28(4): 539–553.

Additional literature and other materials (no more than 3 items)

- 1. 2015 ESC Guidelines for the management of patients with ventricular arrhythmias and the prevention of sudden cardiac death: The Task Force for the Management of Patients with Ventricular Arrhythmias and the Prevention of Sudden Cardiac Death of the European Society of Cardiology (ESC), Endorsed by: Association for European, Eur Heart J (2015) 36 (41): 2793-2867.
- 2. Cardiac Pacemakers Step-by-Step: An Illustrated Guide. S. Serge Barold, Roland X. Stroobandt, Alfons F. Sinnaeve.

Didactic resources requirements (e.g. laboratory, multimedia projector, other...)

PowerPoint projector, blackboard'

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

Basic information on anatomy of the heart, heart physiology and basic electrocardiography

Conditions to receive credit for the course

- Presence must be 100%
- In case of each absence including rector's days or dean's hours all the absences must be made up preparation of the presentation or the essay
- Final test passed

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

Grade:	Criteria for course
Very Good (5.0)	obtaining result of 91-100 % in the final test
Good Plus (4.5)	obtaining result of 90-80 % in the final test
Good (4.0)	obtaining result of 70-80 % in the final test
Satisfactory Plus (3.5)	obtaining result of 61-70 % in the final test
Satisfactory (3.0)	obtaining result of 51% -60 % in the final test

Grade:	Criteria for exam (if applicable)
Very Good (5.0)	
Good Plus (4.5)	
Good (4.0)	



Satisfactory Plus (3.5)	
Satisfactory (3.0)	

Name of unit teaching	Department of Pathophysiology
course:	
Address	Ul. Marcinkowskiego 1, 50368 Wrocław
Phone	71 784 1245
E-mail	witold.pilecki@umed.wroc.pl

Person responsible for	Dr hab. n. med. Małgorzata Poręba
course:	
Phone	607860143
E-mail	malgorzata.poreba@umed.wroc.pl

List of persons conducting specific classes:	degree/scientific or professional title	Discipline	Performer profession	Form of classes
Małgorzata Anna Poręba	Dr hab. n. med.	medicine	physician	Classes non-clinical

Date of Syllabus development

24.05.2020....

dr hab. n. med. Malgarian Porel specjalista chorób wewnętrznych KARDIOLOG

Syllabus developed by

..... Dr hab. n. med.

2563614

Małgorzata Anna Poręba MD PhD

Signature of Head of teaching unit

prof. dr Heb. n. mod. Vers

Signature of Faculty Dean

prof. Banta Sobjeszczańska, PhD