SUBJECT OUTLINE

1. Program of study description

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1.2.	FACULTY OF MEDICINE / CLINICAL DEPARTMENT 2
1.3.	DISCIPLINE: DIABETES, NUTRITION AND METABOLIC DISEASES
1.4.	DOMAIN OF STUDY: Healthcare – regulated sector within the EU
1.5.	CYCLE OF STUDIES: BACHELOR'S DEGREE
1.6.	PROGRAM OF STUDY: MEDICINE

2. Subject description

<u> </u>	ibject dese	- Pu	UII						
2.1.	Name of the subject/compulsory subject/elective subject within the discipline: Diabetes,								
	nutrition	and	metabolic diseas	ses					
2.2.	Location	of th	e discipline: Ins	titutul N	lational de Dia	bet, Nutr	itie si B	oli Metabol	lice
	Prof.Dr.N	N.C.P	aulescu, Spitalu	l Clinic	de Adulti N.M	Ialaxa			
2.3.	Course tenured coordinator: Prof Dr Cristian Serafinceanu, Lect. Dr. Viviana Elian, Lect. Dr.								
	Andrada Mihai								
2.4.	Practicals/clinical rotations tenured coordinator: Prof Dr Cristian Serafinceanu, Prof. Dr. Cristian								
	Guja, Conf. Dr. Anca Pantea-Stoian, Lect. Dr. Viviana Elian, Lect. Dr. Andrada Mihai								
2.5.	Year of	5	2.6. Semester	IX, X	2.7. Type of	Exam	2.8.	Subject	Compulsory
stud	y				assessment		classif	ication	

3. Total estimated time (hours/semester of didactic activity) – teaching module

Number of hours per	20	Out of which:	8	Clinical rotation	12	
week		course				
Total number of hours	20	Out of which:	8	Clinical rotation	12	
from curriculum	20	course	0		12	
Distribution of allotted					Hours	
time						
Study from textbooks, courses, bibliography, and student notes 16						
Additional library study, study on specialized online platforms and field study						
Preparing seminars / labora	atories	, assignments, reports,	portfo	lios and essays	16	
Tutoring					24	
Examinations 40						

4. Prerequisites (where applicable)

Total hours of individual study

Number of credit points

Other activities

4. The equisites (where applicable)				
4.1. of curriculum				
4.2. of competencies				

5. Requirements (where applicable)

5. Requirements (where applicable)					
5.1. for delivering the course	Course classroom, videoproiector				
5.2. for delivering the clinical rotation	Wards, blood glucose meters, CGMS, insulin pumps				



The "Carol Davila" University of Medicine and Pharmacy Bucharest The Quality Assurance Commission

6. Acquired specific competencies

Professional competencies (expressed	- Correct diagnosis of diabetes, obesity and metabolic
through knowledge and skills)	diseases
	- Identification of the population at risk of developing
	diabetes
	- Diagnosis and evaluation of main diabetes
	complications
	- Design and implementation of a therapeutic plan
	- Knowing and applying the appropriate preventive
	measures
	- Approaching health/disease problems from the
	perspective of the particularities of the community, in
	direct relation to the social, economic and/or cultural
	conditions of that community
	- Participation in scientific research activities
Transversal competencies (of role, of	Ability to identify objectives, discipline resources, work
professional and personal development)	plan, related timelines, and related risks
	The ability to work in a multidisciplinary team and the
	acquisition of communication and work techniques
	within the team and in relation to the patient
	The use of information resources and methods of
	interpersonal communication and professional training
	(internet portals, specialized software applications,
	databases, online courses, etc.) in English
	ualavases, offilie courses, etc.) iii Eligiisii

7. Subject learning objectives (based on the scale of acquired specific competencies)

. Subject learning objectives (based on the seale of acquired specific competencies)				
7.1. General learning objective	Transferring to students the main concepts and skills in the field of			
	metabolic-nutritional pathology, mainly in the field of diabetes and obesity.			
	Emphasizing the significance of this pathology for current public health			
7.2. Specific learning objectives	Acquiring the ability to identify, correctly diagnose and develop an			
	appropriate treatment plan for the diagnosed metabolic condition			
	Implementation of nutritional interventions specific to metabolic			
	pathologies			

8. Content

8.1. Course	Teaching methods	Observations
Course 1. Diabetes mellitus: classification, clinical forms, diagnosis, epidemiology and etiopathogenesis	Course support, interactive presentations (PowerPoint, teaching movies), questions and answers session	
Course 2. Acute complications of diabetes	Course support, interactive presentations (PowerPoint, teaching movies), questions and answers session	
Course 3. Chronic complications of diabetes	Course support, interactive presentations (PowerPoint, teaching movies), questions and answers session	
Course 4. Therapeutic management of diabetes	Course support, interactive presentations (PowerPoint, teaching movies), questions and answers session	



The "Carol Davila" University of Medicine and Pharmacy Bucharest The Quality Assurance Commission

8.2. Clinical rotation	Teaching methods	Observations
CR 1. Clinical and biological	Case presentations, bedside activity,	
examination protocol of the patient	practical demonstrations	
with diabetes. Glycemic self-		
monitoring. Insulin injection		
technique. Insulin pumps.		
Continuous glucose monitoring		
systems		
CR 2. Practical methods for	Case presentations, bedside activity,	
assessing the cardiovascular risk of	practical demonstrations	
patients with diabetes		
CR 3. Assessment of nutritional	Case presentations, bedside activity,	
status. Clinical aspects of obesity	practical demonstrations	
and malnutrition		
CR 4. Principles of diet therapy.	Case presentations, practical	
Practical design of a diet	demonstrations	

Bibliography for course and clinical rotation

- 1. **Tratat de diabet Paulescu.** Editura Academiei, București, 2004.
- 2. **Diabetul zaharat. Manual pentru studenți, medici de familie și rezidenți.** Ionescu-Tirgoviste C, Lichiardopol R, Guja C. Editura Ilex, București, 2007.
- 3. Manual de diabetologie pentru studenți și rezidenți. Lichiardopol R (Coord). Editura Ilex, 2011
- 4. **Tratat Român de Boli Metabolice**. Viorel Şerban. Ed Brumar. Timişoara. 2011
- 5. **Nutriție clinică umană manual pentru studenți și rezidenți.** Cristian Serafinceanu. Ed. Medicală, Bucuresti, 2012
- 6. **Managementul nutrițional în diabetul zaharat, bolile metabolice și alte patologii.** Gabriela Radulian. Ed. Univ. Carol Davila, București, 2016
- 7. **Diabetul zaharat in prectica medicala.** Gabriela Radulian Ed. Univ. Carol Davila, București, 2019
- 8. Recomandari de practica medicala ale Asociatiei Americane de Diabet 2022. Diabetes Care 2022.

9. Corroboration of the subject content with the expectations of the representatives of the epistemic community, professional associations, and major employers in the field of the programme of study

The discipline of Diabetes, nutrition and metabolic diseases prepares specialists whose curriculum corresponds to the needs of patients. The content of the course within the discipline Diabetes, nutrition and metabolic diseases (both from university-student training and postgraduate-residents) is adapted from year to year to include the latest news in the field, with an attractive, adapted format the permanent changes of society and its requirements. The specialty of Diabetes, nutrition and metabolic diseases has developed, offering quality care and high standards of treatment despite the difficulties the Romanian medical system is going through. The specialty Diabetes, nutrition and metabolic diseases also provides training in the field of clinical nutrition, a field not covered by any of the other medical specialties. The course content has been constantly adapted to include the professional recommendations of the Romanian Diabetes Society as well as EASD (European Association for the Study of Diabetes)



The "Carol Davila" University of Medicine and Pharmacy Bucharest The Quality Assurance Commission

10. Assessment

Type of activity	Assessment criteria	Assessment methods	Assessment weighting within the final grade
Course	Knowledge	Written Exam	80%
Clinical rotation	Knowledge, clinical skills	Oral Exam	20%
Minimum performan	ce standard		
5 out of 10			

Date of filing: Signature of discipline Signature of course tenured coordinator coordinator

Prof. Univ.Dr.Gabriela Radulian Prof.Univ.Dr.Cristian Serafinceanu

Signature of the seminar tenured coordinator

Prof. Univ.Dr.Cristian Guja

Date of approval in the Council of the Department:

Signature of the Head of the Department Clinic 2,

Prof.Univ. Dr. Adrian Streinu-Cercel