

Carol Davila" University of Medicine and Pharmacy Quality Assurance Committee

DISCIPLINESHEET

1. Data about the programme

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1.2.	FACULTY OF MEDICINE
1 2	DEPARTMENT 5 – INTERNAL MEDICINE (Cardiology, Gastroenterology, Hepatology,
1.3.	Rheumatology, Geriatrics), Family Medicine, Occupational Medicine
1.4.	DISCIPLINE Geriatrics and Gerontology II
1.5.	DOMAIN OF STUDY: HEALTH – Sectorally regulated within the European Union
1.6.	STUDY CYCLE: LICENCE
1.7.	STUDY PROGRAME: MEDICINE – ENGLISH MODULE

2. Data about discipline

	utu ubbut	discipii	110				
2.1.	Name of	Name of the discipline in the educational plan: Geriatrics and Gerontology					
2.2.	Disciplin	e code:	M 152_4				
2.3.	Disciplin	e type (FD/SD/CD):DS				
2.4.	Disciplin	e regim	en (MD/OPD/):Do	OB			
2.5.	The holder of the course activities						
2.6.	The holder of the seminaractivities:						
2.7. Y	2.7. Year of V 2.8. Semester II 2.9. Type of E						
study	7				evaluation		
					(E/C)		

3. Total estimated time (hours/semester of didactic activityanself preparation/study

I. Academic training	(teachin	g, practical appli	ication, ass	sessment)		
3.1. Nr hours/week	4	Fromwhich:	3.2. lectur	2	3.3. seminary/ laboratory	2
3.4. Total hours of educational plan	32	Fromwhich:	3.5. lectur	16	3.6. seminary/ laboratory	16
Evaluation (nr. ofhou	ırs) : 7	•			<u>.</u>	
II. Self preparation/s	tudy					
Time allocation					hours	
Study of course materials, textbooks, books, study of the recommended minimal bibliography					6	
Additional research in the library, research through the internet					6	
Performing specific activities for preparing projects, laboratories, elaborating reviews or other tasks					6	
Specific preparation	activities	s for projects, lab	oratory w	ork, assig	nments, and reports	6
Tutoring						4
Otheractivities					-	
3.7. Total individualstudyhours					28	
3.9. Total hours per semester(3.4.+3.7.) 60						
3.10. Number of credits 5						

4. Preconditions (where applicable)

4.1. of curriculum	-
4.2. of competences	-

5. Conditions (where applicable)

5.1. toconduct the lecture	PowerPoint presentations, use of
	multimediasystems, and projector
5.2. toconduct the seminar / laboratory	Equippedwith the necessaryapparatus for
	conductingpracticalactivities

6. Learning outcomes

Knowledge	Skills	Responsibility and autonomy
• Theories of aging:	Anamnesis of the geriatric	Maintaining a professional
biochemical, molecular,	patient, including from	attitude, respecting the dignity of the
cellular, genetic and	caregivers.	patient regardless of age, illness,
psychosocial.		ethnicity, religion or social status.
 Anatomical, histological 	Standardized geriatric	 Recognising and combating
and physiological changes	assessment of ADL, IADL,	stereotypes and discrimination
associated with aging;	cognitive function, gait,	against older people ("ageism").
pathology of normal aging.	balance, mood, nutrition,	
	visual and auditory function.	
 Atypical manifestations of 	• Interpretation of the	Recognition of the heterogeneity
diseases in the elderly.	evaluation results and	of the elderly and individualized
	formulation of diagnostic,	approach to the patient.
	therapeutic and management	
	steps.	
• Principles of evidence-	Adequate communication	Taking responsibility for clinical
based medicine and the	with the elderly, including	decisions based on evidence and
application of guidelines to	those with cognitive or	ethical principles.
elderly patients with	sensory disorders.	
polymorbidity.		
 Pathophysiology, 	Integrating patient	Responsibility to ensure continuity
evaluation, diagnosis,	preferences and values into	of care and integration of health and
management and prevention	medical decisions.	social services.
of the main geriatric		
syndromes (chronic pain,		
dementia, delirium, abuse,		
falls, sensory disorders,		
malnutrition, sarcopenia,		
bedsores, incontinence).	X1	D
• Peculiarities of	• Identification and	Promoting interdisciplinary
pathophysiology, evaluation,	management of drug misuse	collaboration and effective
diagnosis, management,	and polypragmatism.	communication within the care team.
prevention for:		
cardiovascular diseases		
(including heart failure,		
hypertension),		
cerebrovascular diseases,		
stroke, COPD and		

pneumonia, depression,		
diabetes, water balance		
disorders, osteoporosis, renal		
failure.		
• Pharmacokinetics and	• Use of prostheses, orthoses	Active involvement in patient,
pharmacodynamics of the	and means of facilitation to	family and community education on
elderly, safety of prescribing,	maintain functionality.	aging and elderly care.
compliance, polypragmatism.		
• International Classification	Multidisciplinary	Autonomous development of
of Functionality (ICF), the	collaboration and teamwork	professional skills through
concept of frailty and	(assistants, physiotherapists,	continuous self-education and
multidimensional geriatric	occupational therapists,	integration of clinical practice
assessment.	dieticians, psychologists,	experiences.
	clinical pharmacists, speech	<u>F</u>
	therapists, social workers,	
	spiritual support).	
• Ethical and legal concepts	Application of ethical and	
in geriatrics (autonomy,	legal principles in concrete	
beneficence, non-	clinical situations.	
malefficiency, justice;	cillical situations.	
decisions in lack of capacity,		
advance directives,		
resuscitation, artificial		
nutrition, euthanasia).		
Organization of care	Adaptation of clinical	
services: primary,	conduct to various care	
community, acute hospital,	environments: hospital,	
recovery, long-term care,	outpatient, community, home	
palliative, terminal; services	care, institutionalization.	
and their interaction with		
social assistance.		
• Demography, epidemiology		
and costs of elderly care;		
issues related to minorities		
and financial resources.		

7. Course objectives (aligned with the learning outcomes)

7.1. General objective	Acquiring theoretical and practical skills for diagnosis and	
	management of older people's specific health problems	
7.2. Specific objective	1. Graduates should respect patients regardless of their chronological	
	age.	
	2. Graduates should know about and understand normal and	
	abnormal structure and function, including the natural history of	
	human diseases, the body's defense mechanisms, disease	
	presentation and responses to illness.	
	3. Graduates should know about common medical conditions in	
	older people.	
	4. Graduates should have the special skills needed to conduct a	
	history and perform an assessment in an older patient.	

- 5. Graduates should know about and understand the principles of treatment including the effective and safe use of medicines as a basis for prescribing.
- 6. Graduates should recognize the importance of responses to illness, providing help towards recovery and reducing or managing impairments, disabilities and handicaps.
- 7. Graduates should know about and understand the main ethical and legal issues in international and national context they will come across.
- 8. Graduates should know about, understand and respect the roles and expertise of other health and social care professionals.
- 9. Graduates should know about care of older patients in different settings.
- 10. Graduates should know about specific aspects relevant for health and social care for older persons in their region/ country.
- 11.Graduates must perform and interpret standardized geriatric assessments and predictive, preventive, personalized methods in Molecular Age Diagnosis in the current context of Longevity Medicine.

8. Contents

8.1. Lecture	Teaching methods	Observations
Lecture 1 - Definitions. Concepts. Theories of aging. Medico-social impact of aging .Normal and pathological brain aging. Biological age vs chronological age.	PPT presentation - interactive lecture	2h
Lecture 2 - Specific manifestations of diseases in old age.Prevention in chronic diseases. Neurocognitive disorders: from prevention to disease.	PPT presentation - interactive lecture	2h
Lecture 3 - Common conditions encountered in older adult people:particularities of cardiovascular, respiratory, digestive, renal, rheumatological and hematological diseases.	PPT presentation - interactive lecture	2h
Lecture 4 - Therapeutic principles, including effective and safe use of medicines in old age. Iatrogenic conditions in older people. Pharmacology of the older adult patient	PPT presentation - interactive lecture	2h

Lecture 5 - Intrinsic capacity, frailty syndrome and resilience in older people. Multidomain intervention in frailty syndrome. Cognitive Frailty.	PPT presentation - interactive lecture	2h
Lecture 6 - Elderly care in various environments and contexts. Progressive management of older patient. The 4P of medicine.	PPT presentation - interactive lecture	2h
Lecture 7 - The multidisciplinary, multidimensional and integrative approach of older patient.Introduction to Longevity Medicine.Epigenetics in longevity.	PPT presentation - interactive lecture	2h
Lecture 8 - Therapies directed towards the phenomenon of aging. Romanian experience: Stress, mental health and longevity medicine.	PPT presentation - interactive lecture	2h
8.2. Laboratory/	Teachingmethods	Observations
8.2. Laboratory/ practicallesson 1) Multidimensional evaluation of older people. Scales of assessment (cognitive, mood, instability, risk of fractures, incontinence, nutrition, risk of pressure sores, frailty, social and family support, etc.)	Teachingmethods - case presentations; - illustration by direct evaluation of patients	Observations 2h
practicallesson 1) Multidimensional evaluation of older people. Scales of assessment (cognitive, mood, instability, risk of fractures, incontinence, nutrition, risk of pressure sores, frailty, social and	- case presentations; - illustration by direct evaluation of	
1) Multidimensional evaluation of older people. Scales of assessment (cognitive, mood, instability, risk of fractures, incontinence, nutrition, risk of pressure sores, frailty, social and family support, etc.) 2) Specific syndromes encountered in older people: -incontinence -instability -immobility -cognitive impairment in older people; dementia (early, moderate, severe) and atypical dementia 3) Specific manifestations of	- case presentations; - illustration by direct evaluation of patients	2h
practicallesson 1) Multidimensional evaluation of older people. Scales of assessment (cognitive, mood, instability, risk of fractures, incontinence, nutrition, risk of pressure sores, frailty, social and family support, etc.) 2) Specific syndromes encountered in older people: -incontinence -instability -immobility -cognitive impairment in older people; dementia (early, moderate, severe) and atypical dementia	- case presentations; - illustration by direct evaluation of patients - case presentations;	2h

6) Counselling older patients	- case presentations;	2h
and caregivers. Burden of care.		
7) Polipharmacy in older people	- case presentations;	2h
 prescribing and deprescribing 	_	
8) Factors affecting compliance	- case presentations;	2h
in older people	_	

Recentbibligraphy

- Spiru L., Romosan I.,"MedicinaLongevitatii-TRATAT DE GERIATRIE", Ed. Ana Aslan International Academy of Aging Bucuresti, 2018
- 2. LuizaSpiru, Ioan Romosan AETERNUS, Tratat de Geriatrie si MedicinaLongevitatii, EdituraAcademiei Romane, Bucuresti, 2020, ISBN 978-973-27-3203-8
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- 6. Spiru L, Romosan I, Geriatrie-Tratat, Editura, Ana Aslan IntlAcademy of Aging,
- 7. București", 2004Luiza Spiru, Bruno Vellas, Pierre Jean Ousset Caiet de observațiepentrupaciențiicu Boala Alzheimer, Prima Ediție, Editura U.M.F. "Carol Davila", 2000
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- 15. LuizaSpiru Scalespecifice de evaluare si diagnostic de specialitate, traduse si adaptate in limbaromana; Brain Aging International Journal editie in limbaromana, ISSN 1582-8360: Testul MMSE (Mini Mental State Examination), Testul OROLOGIULUI, Scorulactivitătilorvietiicotidiene (ADL), Scorul IADL al activitătilorcurente, SIB (SevereImpairmentBatery), NPI (Neuropsychiatric Inventory), ZARIT: Evaluareasarciniiajutorului principal, Scorulrisculuivascular HATCHINSKI, Evaluareaechilibruluistatic si dinamic in timpulmersului: Proba Tinetti, Test de fluentaverbala, Clinical Global Impression (CGI).
- 16. Ghid de practicămedicalăpentruspecialitateaGeriatrieGerontologie si anexele sale, Evaluareageriatrica si Foaia de consultgeriatric, aprobateprinOrdinulministruluisanatatii Nr. 1454/30.11.2010
- 17. Curriculum si Syllabus de MedicinaGeriatrica-Gerontologica si PsihogeriatriepentruSpecialitateaMedicina de Familie, ConformDecizieComisiaNationala de GeriatrieGerontologie a MS, 2011
- 18. Ghid de buna practicăînIngrijirea la domiciliuși Case Rezidențiale, ConformDecizieComisiaNationala de GeriatrieGerontologie a MS, 2011
- 19. Ioan Romosan, Iosif A. Szucsik, L. Spiru;-Gerontologie 1998, editia a 2-aI. Alexa, L. Spiru, V. Donca Actualitati in geriatrie;, Ed Gr. T. Popa, U.M.F. Iasi, 2011
- 20. Kumar and Clark Clinical Medicine, 10th Edition. Adam Feather, David Randall, Mona Waterhouse, Leonard Azamfirei, Anca Dana Buzoianu, Dan Ionuţ Gheonea coordinators of the Romanian edition, 10th edition, 1564 color pages, Hipocrate Publishing House, Bucharest, 2021 Chapter 15. Geriatric medicine, frailty and multimorbidity. ISBN: 979-859-115-765-4
- **21. Geriatrics and Gerontology Conceptual aspects; Second edition.** Gabriel–Ioan Prada "Carol Davila" University Publishing House, Bucharest, 2019. ISBN: 978-606-011-104-7

9. Evaluation

Activity type	9.1. Evaluation	9.2. Evaluation	9.3. Percentage in the
	criteria	methods	final grade
9.4. Lecture	Knowledge of the theoretical notions of the subject	written	50%
9.5. Seminary/ practical activity	Clinical examination of the elderly patient	practical exam	50%

9.5.1. Individual project (if applicable	-	-	-
9.6. Minimum performance standard 50%			

Date of completion: 16.09.2025

Signature of the course holder

Signature of the laboratory holder

Date of approval by the Department Council:

Signature of the Department Director