

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

DISCIPLINE SHEET

1. Data about the programme

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1.2.	FACULTY OF MEDICINE
1.3.	DEPARTMENT 8 Radiologie, Oncologie, Hematologie
1.4.	DISCIPLINE MCS-HEMATOLOGIE (CLINICA SI DE LABORATOR) SPITALUL
1.4.	UNIVERSITAR DE URGENTA BUCURESTI
1.5.	DOMAIN OF STUDY: HEALTH – Sectorally regulated within the European Union
1.6.	CYCLE OF STUDIES: LICENCE
1.7.	PROGRAMME OF STUDY: MEDICINE- ENGLISH MODULE

2. Data about discipline

4. L	Data about discipline							
2.1.	Name of	Name of the discipline in the educational plan: HEMATOPOIETIC STEM CELL						
	TRANSP	LANTA	TION AND CELL	THERAF	PIES			
2.2.	Disciplin	e code:						
2.3.	Disciplin	e type: (I	FD/SD/CD): CD					
2.4.	Disciplin	e regime	n (MD/OPD): OPI)				
2.5.	The hold	ler of th	e course activities	: PROF.	UNIV. DR. HOF	RIA BUMBEA (56 ani, vechime activitate		
	didactică	didactică – 24 ani); SEF LUCR. DR. CIUFU CRISTINA MARIA (50 ani, vechime activitate didactică – 18						
	ani); SEF	LUCRA	RI DR CRISTINA E	LENA M	ARINESCU (50	ani, vechime activitate didactica 18 ani)		
2.6.	The hole	The holder of the seminar activities: ASIST UNIV. DR. DAN SEBASTIAN SOARE (36 ani,						
	vechime	vechime activitate didactică – 7 ani) ASIST. UNIV. DR. DELIA SOARE (32 ani, vechime activitate						
	didactică	didactică – 1 an); ASIST UNIV. DR. DANIELA DIACONESCU (33 ani, vechime activitate didactică – 2						
	ani)							
2.7.	Year of	VI	2.8. Semester	I or	2.9. Type of	Е		
stud	V			II	evaluation			
	V				(E/C)			

3. Total estimated time (hours/semester of didactic activity) an self_preparation/study

2 hours	From	3.2.	1,5	3.3	0,5		
	which:	lecture	hours	seminar/laborator	hours/		
					week		
14 hours	From	3.5.	10 hours	3.6.	4		
	which:	lecture		seminar/laborator			
from curriculum							
Evaluation (nr. hours):							
II. Self preparation / study							
Time allocation 46 ho							
oks, cours	es, biblio	graphy,	and student notes				
Additional library study, study on specialized online platforms and field study							
Preparing seminars / laboratories, assignments, reports, portfolios and essays							
Preparation for presentations or checks, preparation for the final examination							
	s): / study oks, cours study, stu s / labora	which: 14 hours From which: s): / study oks, courses, bibliostudy, study on sp / laboratories, as	which: lecture 14 hours From which: lecture s): / study oks, courses, bibliography, study, study on specialized / laboratories, assignment	which: lecture hours 14 hours From which: lecture 10 hours s): / study oks, courses, bibliography, and student notes study, study on specialized online platforms and s / laboratories, assignments, reports, portfolios	which: lecture hours seminar/laborator 14 hours From which: lecture 10 hours 3.6. seminar/laborator s): / study oks, courses, bibliography, and student notes study, study on specialized online platforms and field study / laboratories, assignments, reports, portfolios and essays		

Examinations				
Other activities				
3.7. Total hours individual study				
3.8. Total hours per semester (3.4+3.7.)				
3.9. Number of credit points		2 credits		

4. Prerequisites (where applicable)

4.1. of curriculum	Anatomie, Biochimie, Fiziologie, Fiziopatologie, Imunologie, Genetica, Farmacologie,
	Semiologie Medicală
4.2. of competencies	-

5. Conditions (where applicable)

5.1. to conduct the lecture	PowerPoint presentations, use of multimedia
	systems, and projector
5.2. to conduct the seminar / laboratory	Equipped with the necessary apparatus for
	conducting practical activities

6. Learning outcomes

6. Learning outcomes						
Knowledge	Skills	Responsibility and autonomy				
Description of concepts, theories,	The correct assessment of the	It has the ability to suspect a				
and fundamental notions	risk of illness or the context of	diagnosis				
regarding the production of	the occurrence of an individual	He has knowledge about therapies/				
diseases, signs and symptoms	/ collective illness, followed by	molecules, the latest procedures,				
characteristic of each condition	the choice and application of	the concept of stem cell transplan				
useful for guiding clinical	appropriate prophylaxis	tation and cell therapies				
diagnosis in hematology	measures.	It can establish a prognosis				
Description of the mechanisms	Clinical examination of a	depending on the pathology				
of action of drugs, indications,	hematological patient	particularity the case.				
contraindications and adverse	Diagnostic algorithm	He has knowledge regarding				
effects of therapeutic resources	Interpretation of results	mitigation and insurance				
used in medical practice, as well	Establishing a hematological	Measures of patients' quality of life.				
as knowledge of resuscitation	diagnosis, on clinical and	Know the indications for hemato				
maneuvers in first aid /	paraclinical bases	poietic stem cell				
emergency conditions in	Correct treatment of anemias /	transplantation, the types of				
hematology	of treatment in malignant	transplant, the main				
	hematological diseases	post-transplant complications,				
		evaluation of a				
		posttransplant patient				
		Know the indications of cellular				
		therapies, the types of cellular				
		therapies, the main complications,				
		the evaluation of a				
		patient after administration cell				
		therapies				

7. Course objectives (aligned with the learning outcomes)

7.1. General objective	Familiarization of the student with the specific pathology of the
	hematological patient with an indication for hematopoietic stem cell

	transplantation and cellular therapies (clinical aspect, paraclinical and interdisciplinary approach, principles of treatment, particularities of the care of the hematological patient)
7.2. Specific objectives	At the end of the internship, the student must be able to: - examine the patient with hematological disease with the possible indication of transplantation or cell therapy - draw up an algorithm for evaluating the indication of transplantation / cellular therapy - know the management of patients with hematological diseases with hematopoietic stem cell transplantation or cell therapy

8. Contents

8.1. Lecture	Teaching methods	Observations
The biological properties of the hematopoietic stem cell	Direct exposure	2 h
Immunogenetics in allogeneic stem cell transplantation	electronic support (Power	
The choice of the donor according to the HLA typing and the	Point presentation)	
source of stem cells. The principles of conditioning		
Transfusion support in patients with stem cell transplantation		
Supportive therapy in stem cell transplantation		
Early post-transplant complications	Direct exposure	2 h
Posttransplantation infectious complications	electronic support (Power	
Late complications in post-transplant patients	Point presentation)	
Reconstitution of immunity after allotransplantation of stem	Direct exposure	2 h
cells	electronic support (Power	
Molecular monitoring after transplantation (BMR and	Point presentation)	
Chimerism)		
Posttransplant immunotherapy		
of stem cells		
General indications in the current practice of auto- and allo-	Direct exposure	2 h
transplantation. Stem cells in regenerative medicine	electronic support (Power	
	Point presentation)	
Cell therapies in hematology. Indications, mechanisms of	Direct exposure	2 h
action, complications, supportive treatment	electronic support (Power	
	Point presentation)	
8.2. Seminar / lab	Teaching methods	Comments
Direct exposure of clinical cases / patients with	Direct exposure	4 h
hematological diseases admitted to the Departments of	electronic support (Power	
Hematology and the Bone Marrow Transplantation	Point presentation).	
department Clinical Cases.	Interactive teaching.	
Dogant Pibliography		

Recent Bibliography

Hematologie Clinică, Anca Roxana Lupu, Ana Maria Vladareanu, Daniel Coriu,

Editura UMF Carol Davila, Sept 2017

A beginner's guide to blood cells / Barbara J. Bain. – 2nd ed.

Practical Haematology; Dacie and Lewis; Eleventh Edition, 2012

HEMATOLOGY, Basic Principles and Practice; Hoffman et al, 7th Edition (2018)

The EBMT Handbook, Hematopoietic Stem Cell Transplantation and Cellular Therapies, 2019

Indications for haematopoietic stem cell transplantation for haematological diseases, solid tumours and immune disorders: current practice in Europe, Duarte et al, Bone Marrow Transplantation, 2019

9. Evaluation

Activity type	9.1. Evaluation criteria	9.2. Evaluation	9.3. Percentage in the
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		methods	final grade

9.4. Lecture	Knowledge of the	Theoretical exam	100%		
	theoretical notions of				
	the subject				
9.5. Seminary/ practical activity	Activity during the clinical internship - immunophenotyping	Presence registry, case analysis			
	indication				
9.5.1. Individual project (if applicable)					
9.6. Minimum performance standard					
Minimum 50% in each component of the assessment					

Date of completion: Signature of the course holder Signature of the laboratory holder

10 Septembrie 2025 Prof. Univ. Dr. Horia Bumbea As in Staff Establishment

Date of approval by the Department Department Council Signature of the Department Director

Prof. Univ. Dr. Daniel Coriu