

Course Unit	t Transfusion and Transplantation Sciences			Field of study	Biomedical Laboratory Sciences			
Bachelor in	Biomedical Laboratory Sciences			School	School of Health			
Academic Year	2021/2022	Year of study	3	Level	1-3	ECTS credits	5.0	
Туре	Semestral	Semester	2	Code	9995-550-3201-00-21			
Workload (hours)	135	Contact hours			C - S -	E - Tieldwork; S - Seminar; E - Place		
Name(s) of lecturer(s) Josiana Adelaide Vaz, Jose Joaquim Costa								

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

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 1. Understand some basic concepts and procedures in the area of transfusion science.

 2. Participate in routine laboratory work in a laboratory of blood therapy.

 3. Perform laboratory work plans under the blood therapy.

 4. Participate and interpret laboratory experiments in this area.

 5. Analyze and interpret a critical scientific work.

Prerequisites

Before the course unit the learner is expected to be able to:

Course contents

The content of the course includes the following topics: Whole Blood collection, component processing, storage, conveyance and administration; ABO and Rh blood group system and other related blood group systems; HLA system; Pretransfusion testing; Neonatal and paediatric transfusion practice; Complications of blood transfusions: transfusion reactions and infectious diseases; Transplantation of bone marrow and haemopoietic progenitor cells.

Course contents (extended version)

- Whole Blood collection, component processing, storage, conveyance and administration.
 The ABO blood group system and other related blood group systems.
- The Rh system.

- - Reading and interpretation of panels cells.
 Interpretation of different clinical cases.

Recommended reading

- 1. Dacie, J., Lewis, S., Bain, B., Bates, I., & Failace, R. (2006). Hematologia prática de Dacie e Lewis. Porto Alegre: Artmed.
- Pádua, M. (2009). Patologia clínica para técnicos. Loures : Lusociência. AABB technical manual. Editado pela American Association of Blood Banks.
- 4. ABO-Revista de Medicina Transfusional. Editado por Instituto Português do Sangue.

Teaching and learning methods

Theoretical-practical classes: 30 hours, being the programmatic content presented using the expository methodology and active teaching-learning methodologies. Practical laboratory classes: 30 hours, being performed in these classes some laboratory techniques of immuno-therapy simulating the pre-transfusion routine, analysis and discussion of scientific papers

Assessment methods

- 1. Distributed assessment (Regular, Student Worker) (Final)
 Final Written Exam 60% (Continuous assessment Written Exam)
 Practical Work 20% (Challenges)
 Laboratory Work 20% (Laboratorial work assessment)

 2. Alternative 2 (Regular, Student Worker) (Supplementary, Special)
 Final Written Exam 100% (Final assessment includes the theoretical component 60% and practical 40%)

 3. Alternative 3 (Student Worker) (Final)
 Final Written Exam 100% (Final assessment includes the theoretical component 60% and practical 40%)

Language of instruction

- Portuguese
 Portuguese, with additional English support for foreign students.

	Electronic validation				
	Josiana Adelaide Vaz	Carina de Fatima Rodrigues	Juliana Almeida de Souza	Adília Maria Pires da Silva Fernandes	
Г	25-02-2022	24-03-2022	01-04-2022	02-04-2022	