

**Master's Dissertation**

Code: 43321  
ECTS Credits: 9

Degree	Type	Year	Semester
4314643 Transfusion Medicine and Advanced Cell Therapies	OB	0	2

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

**Contact**

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**Use of Languages**

Principal working language: english (eng)

**Other comments on languages**

The working language will be English, but it will be possible to communicate in Spanish. The subject material will also be in English.

**Teachers**

Sílvia Sauleda Oliveras

Joan Garcia López

Joan Ramon Grífols Ronda

Eduardo Muñoz Díaz

Masja de Haas

Porcelijn Leendert

Jaap Jan Zwaginga

Chantal Lechanteur

Enric Contreras Barbeta

Sergio Querol Giner

**Prerequisites**

Level B2 or equivalent in English.

**Objectives and Contextualisation**

Carry out an individual Master's degree dissertation project, which may or may not be experimental depending on the proposed objective. The work will be guided by an assigned tutor. At the end of the module students prepare a written report on the project which is presented and defended orally via videoconference.

**Competences**

- Apply the biological principles of cell therapies to the treatment of local and systemic pathological processes.
- Communicate and justify conclusions clearly and unambiguously to both specialist and non-specialist audiences.
- Define laboratory strategies for the diagnosis of haemolytic disease, immune and haematologic cytopenias, and other immune-(adverse) effects of the transfusion.
- Describe the processes of selecting units of blood and blood components compatible with each clinical situation.
- Design and develop research using appropriate methodologies.
- Design secure strategies in the donation process in accordance with European regulation.
- Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
- Securely select blood components for transfusion, giving special attention to the management of possible adverse reactions.
- Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.
- Use acquired knowledge as a basis for originality in the application of ideas, often in a research context.

## Learning Outcomes

1. Analyse the efficacy of erythrocyte transfusion.
2. Communicate and justify conclusions clearly and unambiguously to both specialist and non-specialist audiences.
3. Design a blood-product security policy for a given country (preferably the students country of origin).
4. Design a procedure to analyse and control ill-defined transfusions.
5. Design a programme proposal for the use of adult stem cells in cell therapy and regenerative medicine, preferably in the students country of origin.
6. Design a project for the processing and preservation of cord blood.
7. Design a project for the processing and preservation of peripheral-blood haemopoietic and lymphocyte progenitors.
8. Design a project to evaluate blood needs for healthcare in the local community.
9. Design a strategy for the prevention of neonatal haemolytic disease, specifying techniques and algorithms.
10. Design a strategy to prevent neonatal alloimmunisation thrombocytopenia.
11. Design and develop research using appropriate methodologies.
12. Identify the structural and quality-assurance needs in the new regulation on advanced therapies, preferably in the students country of origin.
13. Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
14. Prepare a project of alternatives to transfusion in a hospital environment.
15. Prepare a project to promote voluntary donation.
16. Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.
17. Use acquired knowledge as a basis for originality in the application of ideas, often in a research context.

## Content

1. Planning stage.
2. Development stage.
3. Defence stage.

The Master's degree dissertation (TFM) must contain the following elements:

1. Introduction.
2. Context.

3. General and specific objectives.
4. Material and methods.
5. Results.
6. Discussion.
7. Conclusions.
8. Bibliography.

## Methodology

The TFM (9 ECTS credits) is an individual piece of work, guided by an assigned tutor which may or may not be experimental depending on the proposed objective, and it should directly approach a problem relation to transfusion medicine or cell and tissue therapy.

At the end of the module students prepare a written report on the project which is presented and defended orally via videoconference.

In the initial stages of the TFM, students should explain the basic line of the work in relation to the new or special topics contemplated directly or indirectly in the content of the master's degree modules, with emphasis on the problems arising and the theoretical frameworks in which they are produced, as well as the methodology used.

## Activities

Title	Hours	ECTS	Learning Outcomes
Type: Supervised			
Tutorials	40	1.6	11, 4, 7, 6, 8, 9, 10, 3, 5, 14, 15, 1, 12, 13, 16, 2, 17
Type: Autonomous			
Writing the dissertation	80	3.2	11, 4, 7, 6, 8, 9, 10, 3, 5, 14, 15, 1, 12, 13, 16, 2, 17

## Assessment

This module will be assessed as follows:

1. Submission of the dissertation: 60% of the grade.
2. Defence of the dissertation: 30% of the grade.
3. Tutorials with the tutor: 10% of the grade.

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Submitting the thesis	40%	80	3.2	11, 4, 7, 6, 8, 9, 10, 3, 5, 14, 15, 1, 12, 13, 16, 2, 17
Thesis oral presentation	40%	15	0.6	11, 4, 7, 6, 8, 9, 10, 3, 5, 14, 15, 1, 12, 13, 16, 2, 17

## Bibliography

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