

Degree	Type	Year	Semester
4317563 Transfusion Medicine and Cellular and Tissue Therapies	OB	1	2

Contact

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Use of Languages

Principal working language: English

Other comments on languages

The primary language used during the course will be English. However, the use of Spanish will also be allowed. The course materials will also be in English.

Teachers

Joan Garcia: Graduate in Medicine and Specialist in Haematology by the University of Barcelona and Doctor in Cryobiology of hemopoietic stem cells. His professional career began at the Oncology Research Institute as Director of the department of cryobiology and cell therapy and later as head of the transfusion center and tissue bank of the Duran y Reynals Hospital. Later, he began his professional career at the Blood and Tissue Bank of Catalonia until he became the Director of Research and Education. He is currently a Board member of the Vall d'Hebron University Hospital Foundation.

Martin Smid: (1958, Netherlands, MD Medicine, PhD and MBA) started his medical career in 1988 as MD Internal Medicine for 3 years and as Consultant for the Coagulation in the University Hospital Groningen. In 1996 he moved to the blood bank, later Sanguin, where he had a number of management functions mainly medical including stem cell collection. Since 2005 he is Managing Director of Sanguin Consulting Services, a unit that facilitates knowledge transfer in transfusion medicine by collaborations with blood services, society and the health care sector.

As director of the Academic Institute for the International Development of Transfusion Medicine (IDTM), he is responsible for the Management of Transfusion Medicine (MTM) programme.

Dr Smid takes part in the WHO Global Blood Safety Network and participated in WHO activities. He is member of AfSBT Committees and ISBT Working parties. And since 2000 advisor of the Curacao Blood Bank. He has over 40 international publications in transfusion, haemophilia and coagulation.

Prerequisites

Level B2 or equivalent in English.

Objectives and Contextualisation

This module will deal with project management applied to the specifics of blood, cell, tissue banks and other substance of human origin.

Knowledge, techniques and basic tools will be introduced to manage the different areas involved in the development of any project within the organisation, and that are more advanced than the specific technical knowledge dealt with in other master's degree modules.

The student should recognise and identify, as well as correctly apply the regulatory framework of the activity, understand the financial structure, identify the key concepts for good communication of their ideas at written and oral level, to identify the basics for human resource management, and to justify the projects developed at bioethical level.

The module contains a theoretical component dealing with research methodology in transfusion medicine (50 hours/2 ECTS). This part covers research paradigms, the scientific method, specific methodologies, and the search for information in documentary databases, and students will perform practical work on their own projects, applying the most suitable (qualitative or quantitative) research methodology.

Competences

- Use acquired knowledge as a basis for originality in the development and/or application of ideas, often in a research context.
- Use acquired knowledge to solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.

- Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
- Communicate and justify conclusions clearly and unambiguously to both specialist and non-specialist audiences.
- Continue the learning process, to a large extent autonomously.
- Recognise and apply the basic techniques and tools needed to manage the different areas of knowledge that are involved in any possible project in a blood bank.
- Design and conduct strategic or research projects in transfusion medicine using the appropriate resources and methodologies.
- Integrate scientific and technical knowledge in accordance with ethical commitments and the code of ethics.
- Make reasoned decisions based on a critical and objective analysis.

Learning Outcomes

1. Describe the different areas that apply in the management of projects in a blood bank.
2. Identify the needs in the different areas involved in the management of a project within a blood bank.
3. Design a management strategy that may respond to the needs identified.
4. Communicate decisions and strategic plans, in a reasoned manner, and considering the needs of the team.
5. Identify areas and key elements involved in a project related to transfusion medicine.
6. Define the strategies and resources associated to the transfusion medicine project.
7. Describe the objectives and outcomes related to the transfusion medicine project.

Content

1. Research paradigms.
2. Specific research methodologies.
3. Data bases management.

Methodology

The methodology for this course is active and constructive. It does not only contemplate the content but also reading, reflecting, and applying knowledge to reasonably close situation to create meaningful learning.

Students will work on real life examples and case studies, reflecting on complex and relatively unstructured situations to find adequate solutions.

Faithful to the proposed methodology, students form the centre of the learning process and generate knowledge by interacting significantly with their peers, with the teaching materials and with the environment. This programme not only teaches training in a virtual environment but also allows them to experience their learning every day.

At the beginning of the unit, the teacher will present a learning plan to the group with specific objectives, learning activities, the necessary resources, and recommended deadlines for each activity.

The dates for carrying out the activities are recommended to be able to follow the course. The only fixed dates are the beginning and end of each teaching unit. This means that students can do their own planning, but they must respect the dates for the beginning and the end of each unit.

Students are recommended to work in a continuous and consistent manner and not allow tasks to accumulate around the deadlines, which may lead to haste, undue time pressure and not allow the students to enjoy their learning or carry out additional reflections. Also, the course offers group activities which require synchronisation among the group.

Some of the activities must be send online to the teacher for assessment and receive feedback of progress. Teachers will return the work with comments and together the students can continue to think and learn. The deadline for each of these activities is the end of the teaching unit. Other activities will consist in discussion and working together in shared spaces.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed	30	1'2	
Discussions			1, 2, 6, 7, 8

Type: Supervised	45	1'8
Virtual Case/Problem Solving		1, 3, 6, 7, 8
Elaboration of Projects		2, 3, 4, 5
Type: Autonomous	75	3
Test/Scheme		3, 5
Personal Study		6, 7
Reading Articles/Reports of Interest/Videos		6, 7, 8

Assessment

This module will be assessed on the following activities:

1. Case study: This counts for 16% of the grade.
2. Exercise. This counts for 20% of the grade.
3. Practical case. This counts for 16% of the grade.
4. Discussion forum and practical case. This counts for 16% of the grade.
5. Discussion forum and practical case. This counts for 16% of the grade.
6. Discussion forum. This counts for 16% of the grade.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Case Study	16 %	25	1	2
Exercise	20 %	25	1	3
Practical Case	16 %	25	1	4
Practical Case	16 %	25	1	5, 6, 7
Forum Discussion	16 %	25	1	6, 7, 8

Bibliography

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