

Degree	Type	Year
2502442 Medicine	OT	5

## Contact

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## Teaching groups languages

You can view this information at the [end](#) of this document.

## Prerequisites

It is absolutely necessary to have achieved sufficient knowledge in:

General and specific anatomy of the different organs and systems.

General and specific physiology of different organs and systems.

Cell biology, biochemistry and molecular biology.

and it is advisable to have begun in the knowledge of the study of the different medical and surgical pathologies and in the clinical practice.

The student will acquire the commitment to preserve the confidentiality and professional secret of the data to which he can access because of the learning in the welfare services. Also to maintain an attitude of professional ethics in all its actions.

## Objectives and Contextualisation

The subject, under the mention of Clinical Surgery, is scheduled for the fifth year of the Degree of Medicine, once the basic knowledge about the structure and function of the human body has been obtained and of introducing itself to the knowledge of the " Study of the different medical and surgical pathologies and in clinical practice

Its general objective is to introduce the student to the world of the transplant of organs and tissues. Although many of the concepts have been able to be described in other subjects, the social, ethical, legal and medical problems make it convenient to frame from a global point of view.

The specific training objectives are that the student be able to know the laws that regulate the transplant in our country and our environment, detect the different sources of organs, describe the basic principles of obtaining and maintaining the organs, defining the Concepts of biological identity and rejection, describe the modulation of the immune response, list the indications and the main technical characteristics and the complications of each of the organic transplants, the conditions for the establishment of a body of organs, objectively discuss the problems ethics and the clinical application of transplants, know the main lines of basic and clinical research and the problems that are pending in the field of the transplant.

## Competences

- Be able to work in an international context.
- Convey knowledge and techniques to professionals working in other fields.

- Critically assess and use clinical and biomedical information sources to obtain, organise, interpret and present information on science and health.
- Demonstrate an understanding of the fundamentals of action, indications, efficacy and benefit-risk ratio of therapeutic interventions based on the available scientific evidence.
- Demonstrate sufficient supervised clinical experience in hospitals or other healthcare centres, and familiarity with patient-centred care management and the correct use of tests, medicines and other resources of the healthcare system.
- Demonstrate understanding of the importance and the limitations of scientific thought to the study, prevention and management of diseases.
- Design and manage programmes and projects in the field of health.
- Engage in professional practice with respect for patients' autonomy, beliefs and culture, and for other healthcare professionals, showing an aptitude for teamwork.
- Establish a diagnostic approach and a well thought-out strategy for action, taking account of the results of the anamnesis and the physical examination, and the results of the appropriate complementary tests carried out subsequently.
- Listen carefully, obtain and synthesise relevant information on patients' problems, and understand this information.
- Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
- Maintain and use patient records for further study, ensuring the confidentiality of the data.
- Recognise the role of complexity, uncertainty and probability in decision-making in medical practice.
- Recognize one's role in multi-professional teams, assuming leadership where appropriate, both for healthcare provision and for promoting health.
- Use information and communication technologies in professional practice.

## Learning Outcomes

1. Anticipate and compare information for good decision-making.
2. Apply basic surgical manoeuvres in practice with simulated models.
3. Back decision-making with the best scientific evidence.
4. Be able to work in an international context.
5. Build diagnostic and therapeutic algorithms based on the best scientific evidence, taking into account the facilities available.
6. Calculate the surgical risk indices, both general and by apparatus, and adjust the indications accordingly.
7. Choose content in accordance with the rules of evidence-based medicine.
8. Choose the best possible research design to respond to the hypothesis put forward.
9. Convey knowledge and techniques to professionals working in other fields.
10. Critique original or review scientific papers.
11. Define the statistical methodological bases.
12. Describe biomedical bibliographic databases and ways to filter the information provided.
13. Encourage the search for answers to the questions that arise during surgery.
14. Establish a working hypothesis and its objectives.
15. Evaluate the appropriate scientific methodology for a biomedical paper.
16. Formulate and discuss the results obtained.
17. Gather information and select the most important facts about the patient, both in normal visits and emergencies.
18. Identify funding sources and set up a budget.
19. Identify the ethical bases for decision-making in the field of surgery.
20. Identify the legal bases for creating, maintaining and using databases that contain medical information.
21. Integrate all pre-operative information for decision-making.
22. Justify decisions taken based on the information obtained.
23. Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
24. Make a critical analysis of the objectives to be achieved with surgery, contrasting this with the adverse effects that may be involved.
25. Manage the information available and set levels of discussion in multidisciplinary groups.
26. Participate in the whole process of patient-care, from diagnosis to aftercare.

27. Present results orally or in writing.
28. Provide the bases for preparing clinical guides and constructing diagnostic and therapeutic algorithms.
29. Transmit the information on the surgical procedure to be performed and draw up a document of informed consent.
30. Use information and communication technologies in professional practice.
31. Use the specific bibliographic sources that will help to develop further one's knowledge.

## Content

1. History, concepts and type of transplants.
2. Immunosuppression. Concepts applied to transplantation. Drugs and patterns of immunosuppression.
3. Obtención de órganos y tejidos. The organ donor. Brain death Selection of organs. Ethical concepts.
4. Coordination of transplants.
5. Surgical techniques for the removal and preservation of organs.
6. Renal transplantation. Indications, preparation, immunosuppression guidelines and results.
7. Renal transplantation. Surgical technique and complications.
8. Liver transplantation. Indications, preparation, immunosuppression guidelines and results.
9. Liver transplantation. Surgical technique and complications.
10. Pancreatic transplant. Indications, preparation, immunosuppression guidelines and results. Surgical technique and complications.
11. Pulmonary transplantation. Indications, preparation, immunosuppression guidelines and results.
12. Pulmonary transplantation. Surgical technique and complications.
13. Cardiac transplantation. Indications, preparation, immunosuppression guidelines and results. Surgical technique and complications.
14. Intestinal transplantation. Indications, preparation, immunosuppression guidelines and results. Surgical technique and complications.
15. Tissue transplantation. The tissue banks.

## Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
ASISTENCIAL CLINICAL PRACTICES (PCAh)	15	0.6	2, 4, 9, 17, 24, 25, 26, 28, 29
THEORY (TE)	15	0.6	1, 3, 5, 6, 11, 16, 18, 19, 20, 21, 22, 27
Type: Autonomous			
WORK LABOR / PERSONAL STUDY / READING OF ARTICLES / INTEREST REPORTS	43	1.72	9, 10, 14, 17, 19, 24, 25, 27, 29, 31

This Guide describes the framework, contents, methodology and general rules of the subject, in accordance with the current curriculum. The final organization of the subject with respect to the number and size of groups, distribution in the calendar and dates of examinations, specific criteria for evaluation and review of exams, will be specified in each of the hospital teaching units (UDH), which will be explained through their web pages and the first day of class of each subject, through the professors responsible for the subject in the UDH.

For the present year, the professors designated by the departments as responsible for the subject at the Faculty level and the UDH are:

Responsible department (s):

Head of Faculty: Joan Morote Robles - jmorote@vhebron.net

Responsible UDHSP

Josep Maria Padró Fernández jpadro@santpau.cat

Responsible UDHVH

Joan Morote Robles jmorote@vhebron.net

Responsible UDGTip Responsables UDHPT

NO OFFER IS NOT OFFERED

General teaching methodology:

DIRECTED TEACHING TYPES: (~ 20% Classroom theory theory; clinical laboratory practices, clinical case seminars and clinical assistance practices)

Theory (TE typology). Group size: enrollment group. Scheduled sessions 15 (1 h per session).

Asistencial clinical practices (PCAh typology) (15 hours)

Period of unregulated curricular practices corresponding to studies in the field of health, during which the students experience in a real context and acquire specific skills under the direct supervision of the UAB professors or of external professionals involved.

AUTONOMOUS WORK (57% total 43 hours)

Comprehensive reading of texts and articles, study and realization of schemes, summary and conceptual assimilation of the contents. Preparation of presentations and deliveries.

EVALUATION (3% total 2 hours)

In the current exceptional circumstances, at the discretion of the teachers and also depending on the resources available and the public health situation, some of the theoretical classes, practicals and seminars organized by the Teaching Units may be taught either in person or virtually.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

## Assessment

### Continous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Continuous evaluation: Assistance and active participation in classes and seminars	30%	0	0	1, 2, 4, 5, 11, 12, 15, 19, 21, 22, 23, 25, 27, 28
Syllabus_Practicum	30%	1	0.04	1, 9, 16, 19, 21, 23, 24, 25, 29
Written evaluation through multiple choice objective tests / restricted questions essay tests	40%	1	0.04	1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 29, 30, 31

It will be necessary for the student to attend 80% of the supervised and supervised activities and present a syllabus of their activities. A continuous assessment will be made and finally there will be an objective multiple choice test.

This subject does not provide the single assessment system.

## Bibliography

Bibliografia específica

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9. Caralps A, Gil-Vernet JM, Vives J. Cirugía del trasplante renal. Ed Toray SA. Barcelona, 1983.

#### Bibliografía de consulta

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19. Starlz TE, Demetris AJ. Liver transplantation: A 31-year perspective. Curr Probl Surg. February 1990; pt I 51-116.
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#### Recursos d'Internet

Organització Catalana de Trasplantament: <http://www10.gencat.cat/catsalut/ocatt/es/htm/index.htm>

Organización Española de Trasplante: <http://www.ont.es/Paginas/default.aspx>

European Society of Organ Transplantation: <http://www.esot.org/>

American Society of Transplant Surgeons: <http://www.ast.org/>

European Liver Transplant Registry: <http://www.eltr.org/>

Scientific Registry of Transplant Recipients: <http://www.ustransplant.org/>

United Network for organ sharing: <http://www.unos.org/>

International Society for Heart & Lung Transplantation: <http://www.isHLT.org/>

International Pancreas Transplant Registry : <http://www.iptr.umn.edu/>

Intestinal Transplant Association: <http://www.intestinaltransplant.org/>

## **Software**

No specific software required

## **Language list**

Information on the teaching languages can be checked on the CONTENTS section of the guide.

PROVISIONAL