

MODULE DESCRIPTION (SUMMARY PROGRAM).

1. Module Information Code:	
• <u>Name of the Institution and School</u>	Universidad Autónoma de Nuevo León. School of Medicine
• <u>Name of the Learning Unit</u>	Organ and Tissue Transplantation
• <u>Total classroom hours for theory and/or practice.</u>	71 hours
• <u>Total extra classroom hours</u>	49 hours
• <u>Course Modality</u>	Schooled
• <u>Type of academic period in which the module is offered</u>	5th Semester
• <u>Type of Learning Unit in the Curriculum</u>	Elective
• <u>Curriculum area:</u>	ACFP-F
• <u>UANL credit points</u>	4
• <u>Date of module creation:</u>	July 6, 2016
• <u>Date of last amendment:</u>	January 22, 2021
• <u>Person(s) responsible for the module design and amendments:</u>	Dr. med. Edelmiro Pérez Rodríguez. Dr. med. Homero Arturo Zapata Chavira.

2. Purpose(s)

The purpose of this learning unit is to contribute to achieve the profile of the graduate in the fields of professional clinical practice, critical thinking and professional values and ethics, by developing the necessary skills to know the chronic terminal diseases that require transplantation, through the implementation of a methodology that favors autonomous learning, with collaborative purposes and focused primarily on solving the problems raised during the process of donation and transplantation.

Currently there is an increase in chronic diseases in which medical treatment does not respond adequately, so the only therapeutic option is the transplant of organs or tissues. It is for this reason that this Learning Unit contemplates the understanding of the culture of donation as a common good and of benefit to society.

Curricularly there is a relationship with all the learning units of the Basic Training Area, since they provide the scientific basis of medicine such as: Human Anatomy, Physiology, Microbiology, Biochemistry and Molecular Biology, Immunology and Pathology, to understand the structure and function of each organ and tissue; the relationship with Bioethics is emphasized since it provides the ethical reference framework on medical decisions, which have an impact on the patient and society in general. Likewise with the learning units of the Curricular Area of Professional Training, such as the units of diagnosis, clinical pathology and Imagenology; Pharmacology and Toxicology since the student recognizes some types of immunosuppressors, as well as with the surgical and medical sciences. since they promote analysis for clinical decision making and the importance of ethics in the correct course of the pre-established processes; in addition to knowing about research that allows them to guide their professional development.

The Organ and Tissue Transplant Learning Unit is related to general competencies as it promotes autonomous learning, the use of formal language, the handling of information technologies, as well as collaborative learning and work. This Learning Unit promotes the values that all UANL graduated doctors must have in order to respect organ donation and transplantation.

The competencies corresponding to the domains of critical thinking and research, professional values and ethics, organizational work, professional and personal development, and communication will be developed.

As for the general and specific competencies of the profession, it promotes decision making based on scientific knowledge of medicine, all within a theoretical framework that allows the exercise of the procedures and skills of the transplant process through professional values, ethics, organizational work, communication, as well as personal and professional development.

3. Competences of the graduate profile

a. General competences contributing to this learning unit.

1. Apply autonomous learning strategies in the different levels and fields of knowledge that allow them make appropriate and relevant decisions in the personal, academic and professional fields.
3. Use the information and communication technologies as access tools to information and its transformation in knowledge, as well as for learning and collaborative work with cutting-edge techniques that allow its constructive participation in society.
6. Use a second language, English in particular, with clarity and correctness to communicate in common, academic, professional and scientific contexts.
9. Maintain an attitude of commitment and respect towards the diversity of social and cultural practices that reaffirm the principle of integration in the local, national and international context with the purpose of promoting environments of peaceful coexistence.
11. Practice the values promoted by the UANL: truth, equality, honesty, liberty, solidarity, respect for life and anyone's, peace, respect for nature, integrity, ethics behavior and justice, within their personal and professional environment in order to make a sustainable society.
12. Make innovative proposals based on the holistic understanding of reality to help overcome the challenges of the interdependent global environment.
13. Take the lead according to social and professional needs to promote relevant social change.

b. Specific competences of the graduate profile that contributes to the learning unit

Scientific Basis of Medicine

- 1.- Use the medicine scientific fundamentals considering economical, psychological, social, cultural and environmental factors which contribute to the development and evolution of a disease for decision-making and medical actions.
- 3.- Evaluate the development and evolution of the disease through the analysis of biomedical information and related physical, social and cultural factors, promoting health education and encouraging preventive medicine.
- 4.- Manages properly patients with the most frequent diseases from a biopsychosocial perspective, through the application of knowledge, technical procedures and basic diagnostic, based on clinical guides and attention protocols in order to solve the main health problems from the Primary Health Care level from individuals and the community.
- 5.- Manage common medical emergencies, applying treatment, procedures and minor interventions and make appropriate and timely referrals for patients requiring critical care for the preservation of life.

Professional Values and Ethics

- 8.- Integrates professional values and ethics into his medical practice, making no difference due to gender, race, political or sexual preference, religious beliefs, activities developed, disabilities or socioeconomic level, promoting social inclusion and contributing to the population's well-being, their life quality and human development.
- 9.- Respects the patient's integrity keeping the patient's medical information as an essential part of their professional secret in order to preserve his rights.

Organizational work

- 10.- Promotes an organizational work culture for the health field, acknowledging the multidisciplinary work, respect for institutional policies and the observance of rules in order to contribute to a comprehensive treatment of patients.

Communication

- 11.- Applies effective communication principles, establishing a respectful and sympathetic relationship with the patient, relatives, the community and other health professionals in order to use the information properly

4. Summative Evaluation

- Short video creation
- Flowchart.
- Oral presentation.
- Case studies.
- Written report
- Course Integrative Product
- Exam

5. Course Integrative Product

Seminar on the different types of organ and tissue transplants.

6. References

Books:

Muñoz-Espinoza L.E. (2005). Hepatología: Fisiopatología, Diagnóstico y Tratamiento. México, D.F.: McGraw-Hill/ Interamericana.

Townsend C., Beauchamp D., Evers M., & Mattox K. (2013). Sabiston. Tratado de Cirugía: Fundamentos biológicos de la práctica quirúrgica moderna. España: Elsevier.

Tratado de Medicina Interna - Cecil y Goldman. Elsevier.

Electronic sources:

El Modelo Español de Coordinación y Trasplantes. Madrid: Grupo Aula Médica. Matesanz R. (ed.) (2008).
<http://www.ont.es/publicaciones/Documents/modeloespanol.pdf>

Liver and Intestinal Transplantation. http://www.nmh.org/ccurl/470/304/NMHLiverBook_Complete,0.pdf

<http://www.cenatra.salud.gob.mx/>

<http://www.ont.es/Paginas/Home.aspx>

<https://www.unos.org/>

<https://optn.transplant.hrsa.gov/>

Hepatology	http://aasldpubs.onlinelibrary.wiley.com/hub/journal/10.1002/(ISSN)1527-3350/
Journal of Hepatology	http://www.journal-of-hepatology.eu/
Liver International	http://onlinelibrary.wiley.com/subject/code/000059
Annals of Hepatology	http://www.annalsofhepatology.com/
Transplantation Proceedings	http://www.transplantation-proceedings.org/
Transplantation	http://journals.lww.com/transplantjournal/pages/default.aspx
American Journal of Transplantation	http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1600-6143
Transplant International	http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1432-2277
Revista Mexicana de Trasplantes	http://new.medigraphic.com/cgi-bin/publicaciones.cgi?IDREVISTA=284

