

MODULE DESCRIPTION (SUMMARY Program)

1. Module Information Code:	
Name of the Institution and School	Universidad Autónoma de Nuevo León, School of Medicine
Name of the Learning Unit	Immunology
Total classroom hours for theory and/or practice.	46 hrs.
Total extra classroom hours	44 hrs.
Course Modality	Schooled
Type of academic period in which the module is offered	4° Semester
Type of Learning Unit in the Curriculum	Compulsory
Curriculum area:	ACFB
UANL credit points	3
Date of module creation:	29/09/2014
Date of last amendment:	14/08/2020
Person(s) responsible for the module design and amendments:	Dr. Mario C. Salinas Carmona, Dr. Carlos Eduardo Medina De La Garza, Dra. Alma Yolanda Arce Mendoza, Dr. Adrian G. Rosas Taraco, Dra. Anna Velia Vázquez Marmolejo, Dr. Alberto Yairh Limón Flores y Dra. María de los Ángeles Castro Corona.

2. Purpose(s)

In this LU the immune system neoplastic mechanisms and its role and dysfunction of autoimmune allergic diseases and malignancies are analysed. It analyses the bases for selecting donors in transplants the rejection mechanisms and immune bases for therapeutic immunomodulation.

. The immune system consists of cells and molecules that function in a balanced manner to maintain homeostasis in the life and health of humans. The abnormal functioning of one of the components of this system results in diseases. In some diseases certain elements of the immune system are responsible for the production of injury and damage, which is why this LU provides the immune basis that explains the maintenance of health or disease development. It also provides the basis for understanding and integrating immunology-based diagnosis and therapeutic into medical practice.

The immunology LU is part of the curriculum of Medical surgeon and obstetrician degree and is located in the fourth semester of the career. In the curriculum chart, the immunology LU requires its students prior knowledge of biochemical anatomy, histology and molecular biology

In line with the importance of the formation of MSO, this LU precedes the medical LU of Surgical Sciences I,II, and III, Proporciona las bases para Provides the basis for understanding the preventive and diagnostic processes to be used in pediatric learning and obstetrics this LU provides knowledge of immunological physiopathology for understanding of allergy and clinical Rheumatology and and clinical immunology units as well as infectology.

. It contributes to the proper use of oral and written expression by promoting effective communication with patients through critical analysis of scientific information and the correct form of decisions in the diagnostic and therapeutic process by making them accessible to patients and the general population in a clear and ethical manner, and also promotes interest in research and continuing education.

3. Competences of the graduate profile

a. General competences contributing to this learning unit.

Instrumental skills:

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.

4.- Dominate their native language in oral and written form with correctness, relevancy, opportunity and ethics adapting its message to the situation or context, in order to transmit ideas and scientific findings.

Personal and social interaction skills

for
nature, integrity, ethics, behavior and justice, within their personal and professional environment in order to make a sustainable society.

Integrative skills

12.- Make innovative proposals based on the holistic understanding of reality to help overcome the challenges of the interdependent global environment.

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

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.

7.-Applies the scientific method for the resolution of medical problems with an innovative, analytic and self-critical attitude for preventing, diagnosing and treating diseases.

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.

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:

- Written statement
- Scheme and description
- written examination
- Resolution of a clinical case
- Course Integrative Product
- Final written evaluation

5. Course Integrative Product

Develop orally and in writing the immunological basis for disease, laboratory diagnostic techniques and/or therapeutic forms.

For the summary assessment of the course integrative product, it is a requirement to accredit with 70% each written evaluation including the final.

6. References

Reference books:

La Inmunología en la Salud y en la Enfermedad. Salinas Carmona M. C. 2ª ed. 2017. Panamericana
Inmunología, Male, Brostoff, Roth y Roitt. 8ª edición 2014. Elsevier-Saunders.

Inmunología celular y molecular. Abul K Abbas, Andrew H. Lichtman, Shiv Pillai. 8ª ed. 2015. Elsevier.
Histología Texto y Atlas color con Biología Celular y Molecular. Ross H. Michael & Pawlina Wojciech 6ª ed. 2012. Panamericana.

Diccionario de la Real Academia Española. www.rae.es/ Also available in IOS and Android.

Diccionario Médico Lite. Available in IOS and Android.

Diccionario médico-biológico, histórico y etimológico. <https://dicciomed.usal.es/>

Other dictionaries may also be consulted:

Web-based web sites

UANL data base

http://www.dgb.uanl.mx/?mod=bases_datos

Cochrane Library

<http://www.cochranelibrary.com/>

MEDLINE / PubMed

<https://www.ncbi.nlm.nih.gov/pubmed>

SpringerLink

<http://link.springer.com/>

Jeffrey Modell Foundation

<http://www.info4pi.org/>

Immune Deficiency Foundation

<https://primaryimmune.org/>

Fundación Mexicana para Niños y Niñas con Inmunodeficiencia

<http://fumeni.org.mx/>

Centers for Disease Control and Prevention

<http://www.cdc.gov>

LISTADO DE REVISTAS DE INMUNOLOGIA

<http://www.immunologylink.com/>

FREE MEDICAL JOURNALS

<http://www.freemedicaljournals.com/>

MEDLINE

<http://www.ncbi.nlm.nih.gov/PubMed/>

SOCIEDAD MEXICANA DE INMUNOLOGÍA

<http://www.sminmunologia.org>

REVISTA MEDICINA UNIVERSITARIA (Revista de la Facultad de Medicina)

Hasta 2017 <http://www.elsevier.es/es-revista-medicina-universitaria-304>

Desde 2018 http://medicinauniversitaria.org/frame_eng.php?id=1

Revista CIENCIA UANL (*Revista de divulgación de la UANL*)

<http://www.cienciauanl.uanl.mx>

The Journal of Allergy and Clinical Immunology

<http://www.jacionline.org>

Annual Review of Immunology

<http://www.annualreviews.org/>

Clinical and Diagnostic Laboratory Immunology

<http://cdli.asm.org/>

European Journal of Immunology

[http://www.onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1521-4141](http://www.onlinelibrary.wiley.com/journal/10.1002/(ISSN)1521-4141)

International Archives of Allergy and Immunology

<http://www.karger.com/journal/Home/224161>

Journal of Immunology

<http://www.jimmunol.org/>

Scientific American

<http://www.sciam.com/>

American Society for Microbiology

<http://www.asm.org>

British Society for Immunology

<http://immunology.org/>

Clinical Immunology Society

<http://www.clinimmsoc.org/>

