



UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN
SCHOOL OF MEDICINE
Ba CLINICAL CHEMISTRY



SYNTHETIC PROGRAM.

1. Identification data:	
• Institution	Universidad Autónoma de Nuevo León
• College	School of Medicine
• Education program	Clinical Chemistry
• Learning unit	Blood bank and transfusion medicine
• Total hours of classroom, theory and practice	100
• Frequency in classroom per week	5 hours
• Total extra hours (Outside classroom)	20
• Modality	Schooled
• Academic period	Sixth semester
• Type of learning unit	Mandatory
• Curricular area	ACFP-F
• UANL Credits	4
• Date of elaboration	20/04/2018
• Date of actualization	
• Responsible (s) for the design and actualization	

2.Purpose(s):

This Learning Unit (UA) contributes to the graduate profile by acquiring the necessary procedural skills and techniques used for the obtaining and preparation of the components blood and he recruitment optimum blood donors; in addition to strict control in quality assurance, legal and ethical aspects associated with the donation, collection, preparation, conservation and clinical use of blood components and materials related.

The learning unit collaborates with three general competencies, allowing graduates to develop traditional and cutting-edge research methods and techniques to ensure the quality of blood components and safe blood transfusion. It promotes the values of truth, equity, honesty, professional ethics, solidarity and responsibility, fostering altruism. and the responsibility social in his scope staff and professional for keep the reliability of the evidence carried out in the bank of blood and the transfusion medicine. During the UA HE build proposals innovative for promote the blood donation, raising awareness in society of the importance of same.

Regarding specific competencies, the UA provides knowledge for obtaining, handling, storing and analyzing blood components; it also provides the skills to interpret and validate tests performed in a blood bank and to guarantee the quality of blood components according to the current quality standards that apply to blood banks.

The learning unit is taught in the sixth semester and is related to various UA reviewed in previous semesters, such as: Hematology, which provides the diagnostic criteria for hematological diseases and other etiologies that require follow-up by transfusion medicine and with Immunology that you provides the bases of the answer immune and of the applied analytical methodologies. Within the learning units of advanced semesters it is related to Clinical Pathology, Course for general evaluation, graduation and the professional practices, providing them the knowledge required for the decision making in the practice of transfusion medicine and performance at the blood bank.

3. Competence of the graduate profile

- **General skills contributing to this learning unit**

Instrumental skills:

8. Use traditional and cutting-edge research methods and techniques for the development of their academic work, the exercise of their profession and the generation of knowledge.

Personal and social interaction skills:

11. Practice the values promoted by UANL: truth, equity, honesty, freedom, solidarity, respect for life and others, peace, respect for nature, integrity, ethical behavior and justice, in their personal and professional spheres to contribute to building a sustainable society.

Integrative skills:

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

- **Specific skills of the graduate profile that contributes to the learning unit**

2. Execute physical, chemical and biological procedures in the obtaining, handling, storage and analysis of samples to contribute to a reliable clinical, toxicological, chemical, food, forensic and environmental diagnosis.

6. Interpret the results of analysis based on established criteria that allow for timely and pertinent decision-making in clinical, toxicological, chemical, food, forensic and environmental.

7. Ensure the reliability of the analytical results obtained by applying quality control guidelines as established by laboratory policies for the correct taking of decisions

4. Factors to consider for evaluating the learning unit

- Evidences.
- Laboratory reports.
- Weighted activities.
- Course integrative project/product.

5. Course integrative project/product:

Written evaluation of clinical cases in transfusion medicine and blood banking.

6. Sources of support and consultation (bibliography, hemerography, electronic sources):

AMMTAC. Mexican Association of Transfusion Medicine, AC <http://www.ammtac.org> Martínez, J. (2012) A. Mexican Association of Transfusion Medicine 10 years. Mexico: AMMTAC. Radillo-González, A. (2017). Transfusion Medicine. Third edition. Mexico: Prado publishing house.

Rodriguez - Moyado, H. (2014) The Blood Bank and Transfusion Medicine. Mexico: Panamericana publishing house. Romero – Rodriguez, T. (2010) Manual of Techniques and Procedures in Blood Bank. Mexico: Prado publishing house.

Ministry of Health. (1994). NOM-017-SSA2-1994, For Epidemiological Surveillance. Mexico: Official Journal of the Federation. Retrieved April 8, 2017 from <http://www.salud.gob.mx/unidades/cdi/nom/017ssa24.html> Ministry of Health. (2002).

NOM-087-ECOL-SSA1-2002 Environmental protection - Environmental health - Biological-infectious hazardous waste - Classification and management specifications. Mexico: Official Journal of the Federation. Retrieved April 8, 2017 from <http://www.salud.gob.mx/unidades/cdi/nom/087ecolssa.html> Ministry of Health. (2012).

NOM-253-SSA1-2012. For the disposal of human blood and its components for therapeutic purposes. Mexico: Official Journal of the Federation. Retrieved April 8, 2017 from <http://dof.gob.mx/normasOficiales/4917/salud3a/salud3a.html>