Analytical program.

Identification data	
Name of the institution and the agency (on official agency	Universidad Autónoma de Nuevo León,
stationery)	Facultad de Medicina.
Name of the learning unit	Emergency.
Classroom-theory and / or total practical hours	340 hours
Total of the classroom extra hours	20 Hours.
Modality (schooled,unschooled, mixed)	Schooled
Type of academic period (semester or four-month period)	12° Semester
Type of learning unit (mandatory/optional)	mandatory.
Curricular area (ACFGU, ACFB, ACFP-F, ACFP-I)	ACFP-I
Credits of the UANL (complete numbers)	12
Production date (dd/mm/yy)	June 2017
Last update (dd/mm/yy)	01/02/2023
Responsible for design:	Dr. med. Marco Antonio Hernández Guedea.
	Dr. Asdrubal Guevara Charles.
2 Presentation:	

Presentation:

The Emergency learning unit includes the integration of medical and surgical sciences, and is structured in three stages with the purpose of achieving and consolidating fundamental skills on the recognition and approach of medical situations that endanger the patient's life, taking timely decisions with ethical and professional sense.

Stage 1 is called Quality and Patient Safety, in this stage training is provided in the categorization according to the severity of patients through Triage and proper management of documentation, to guarantee patient safety, as well as rapid treatment. and cash. Stage 2 refers to the identification of surgical emergencies, through adequate clinical and office correlation for a timely diagnosis and pertinent treatment. Stage 3 refers to medical emergencies, where training is also provided for the correct categorization of those that pose an immediate danger to life, in order to apply the most current medical management protocols.

Teaching-learning activities occur in real settings, thus promoting meaningful learning and competency-based education.

Purpose

In the Emergency learning unit, the student will acquire the skills to establish the presumptive diagnosis, offer the initial therapeutic measures as well as refer the patient to the corresponding area in a timely and appropriate manner, with efficient professional performance, with critical and reflective judgment in the daily practice, for the benefit of individuals and society.

This learning unit is curricularly located in the twelfth semester, belongs to the Curricular Area of Integrative Professional Training and includes a core area in the training of the doctor in the Surgeon and Midwife Curriculum; It is part of an educational process in which basic and clinical knowledge is integrated in a multidisciplinary manner, developing specific clinical competencies, which implies the promotion, evolution and consolidation of intellectual skills, with an integrative perspective: clinical reasoning (analysis, synthesis and evaluation), procedural skills and attitudinal skills, which prepares the student to successfully carry out the required medical-surgical activities.

Its curricular relationship requires knowledge of the structure and function of the human body through the study of Anatomy, Physiology, Histology, Embryology, Microbiology, Biochemistry and Molecular Biology, Pathology, Clinical Pathology, Imaging, Quality and Safety in Care, with the purpose to correlate this knowledge for the evaluation and solution of clinical-surgical problems, through the correct preparation of a clinical history and an intentional physical examination, combined with the interpretation of laboratory studies and Image. It also requires knowledge of Pharmacology and Toxicology that allows the correct selection of treatment, taking into account their interactions; as well as with Bioethics for making relevant decisions in its sphere of influence.

Regarding the general competencies of the University, this learning unit promotes the use of formal language, the correct use of language; the use of logical and critical thinking that allows you to make decisions within your sphere of influence; management of computer tools; and autonomous learning is privileged, which will allow you to consolidate your disciplinary and personal training. Regarding the specific competencies of the profession, it contributes to scientific knowledge and its applicability through the clinic. Likewise, effective communication with patients, their families and other professionals is promoted, in addition to knowing how to work in a multidisciplinary team and always practicing medical ethics, respect, confidentiality and social commitment.

The biopsychosocial perspective is reinforced by treating the patient as a human being immersed in a certain family and social environment or context, which is a relevant factor for their diagnosis and treatment.

4. State the competencies of the graduation profile

a. General Competencies to which this learning unit contributes

Instrumental skills:

- 1. Apply autonomous learning strategies at different levels and fields of knowledge that allow you to make timely and relevant decisions in the personal, academic and professional spheres.
- 2. Use logical, formal, mathematical, iconic, verbal and non-verbal languages according to their stage of life, to understand, interpret and express ideas, feelings, theories and currents of thought with an ecumenical approach.
- 3. Manage information and communication technologies as a tool for accessing information and its transformation into knowledge, as well as for learning and collaborative work with cutting-edge techniques that allow constructive participation in society.
- 4. Master your native language orally and in writing with correctness, relevance, timeliness and ethics, adapting your message to the situation or context, for the transmission of ideas and scientific findings.
- 5. Use logical, critical, creative and purposeful thinking to analyze natural and social phenomena that allow you to make relevant decisions in your sphere of influence with social responsibility.
- 6. Use a second language, preferably English, with clarity and correctness to communicate in everyday, academic, professional and scientific contexts.
- 7. Prepare inter, multi and transdisciplinary academic and professional proposals according to the best global practices to promote and consolidate collaborative work.
- 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 Competencies:

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 aim of promoting environments of peaceful coexistence.

- 10. Intervene in the face of the challenges of contemporary society locally and globally with a critical attitude and human, academic and professional commitment to contribute to consolidating general well-being and sustainable development.
- 11. Practice the values promoted by the UANL: truth, equity, honesty, freedom, solidarity, respect for life and others, respect for nature, integrity, professional ethics, justice and responsibility, in your personal and professional sphere to contribute to build a sustainable society.

integrative competencies:

- 12. Build innovative proposals based on the holistic understanding of reality to contribute to overcoming the challenges of the interdependent global environment.
- 13. Assume leadership committed to social and professional needs to promote relevant social change.
- 14. Resolve personal and social conflicts according to specific techniques in the academic field and their profession for appropriate decision-making.
- 15. Achieve the adaptability required by the uncertain social and professional environments of our time to create better living conditions.
- a. Specific competencies of the graduation profile to which the learning unit contributes

Specific competencies of the Bachelor of Surgeon and obstetrician

Scientific Basis of Medicine

1.- Use the scientific foundations of medicine considering the economic, psychological, social, cultural and environmental factors that contribute to the development and evolution of the disease for medical decision-making and actions.

Professional Clinical Practice

- 2.- Solve clinical problems through deductive reasoning, the interpretation of findings and the definition of their nature in order to make decisions and determine principles of action of medical practice to follow responsibly, impacting individual and collective health.
- 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 promoting preventive medicine.
- 4.- Appropriately manage patients with the most frequent diseases, from a biopsychosocial perspective, through the application of knowledge, technical procedures and basic diagnoses, based on clinical guides and care protocols, to solve the main health problems of the patient. first level of care for the individual and the community.
- 5.- Manage common medical emergencies, applying treatment, procedures and minor interventions and appropriately and timely refer patients who require critical care for the preservation of life.
- 6.- Manage human resources, diagnostic interventions, therapeutic modalities and health care options according to national standards, promoting a culture of quality care and guaranteeing safety for patients.

Critical Thinking and Research

7.- Apply the scientific method in solving medical problems with an innovative, analytical and self-critical attitude in the prevention, diagnosis and treatment of diseases.

Professional Values and Ethics

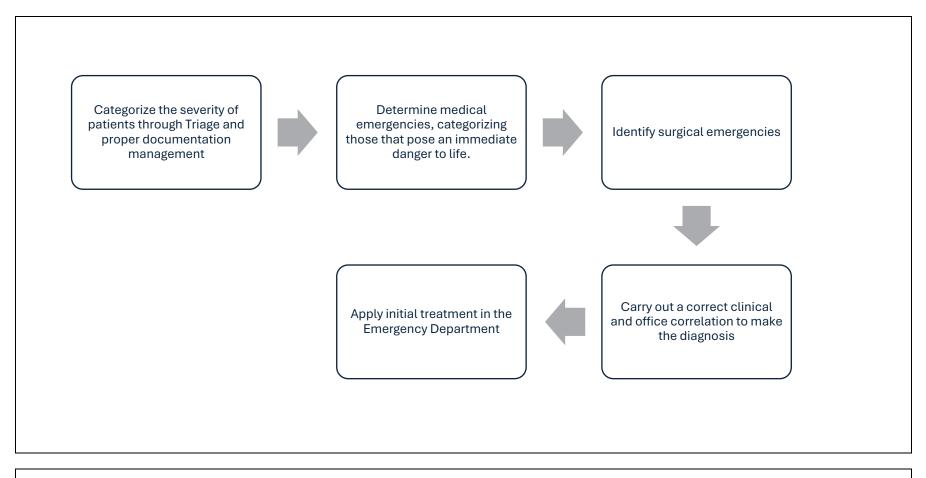
- 8.- Integrate professional values and ethics into medical practice, without distinction of gender, race, political and sexual preferences, religious beliefs, activities performed, different abilities or socioeconomic status, promoting social inclusion and contributing to the well-being of the population. population, quality of life and human development.
- 9.- Respect the integrity of the patient by preserving their medical information as a fundamental part of professional secrecy, in order to protect their rights.

Organizational Work

10.- Promote the culture of organizational work in the field of health, recognizing multidisciplinary work, respect for institutional policies and observance of regulations, in order to contribute to the comprehensive treatment of patients.

Communication

- 11.- Apply the principles of effective communication, establishing a relationship of respect and empathy with the patient, their families, the community and other health professionals, in order to use the information appropriately.
- 5. Graphic representation



6. Structuring into chapters, stages, or phases, of the learning uni

Stage 1. Quality and Patient Safety.

Competition element:

Categorize the severity of patients through Triage and adequate documentation management, to guarantee patient safety and expedite intra-hospital procedures, with the aim of establishing rapid and effective treatment according to the pathology.

Skill evidence	Performance criteria	Learning activities	Contents	Resources
Evaluation of performance	Emergency Consultation:	Presentation of the contents	Conceptual contents	
in the consultation	Complete the request for	orally, with visual support.	Quality and patient safety.	Classrooms of the Faculty
	laboratory and cabinet	In the oral presentation, the	TRIAGE / Handling and	of Medicine.
	tests in original and copy	teacher maintains interaction	filling out documents in	Textbooks.
	and deliver it to the Control	with the students in relation to	Emergencies.	Audiovisual material.
	Desk.	the knowledge obtained in the	Initial Assessment of the	Official Mexican
	He is responsible for	review of material individually.	Multiple Traumatized	STANDARD NOM-004-
	recording the diagnostic	The teacher corroborates the	Patient.	SSA3-2012, from the
	and/or therapeutic	integration of the concepts	TRIAGE / Handling and	clinical file
	procedures of the patients	and provides clinical	filling out documents in	Emergency Department,
	under his care.	examples.	Emergencies.	University Hospital, "Dr.
	Accompanies patients to	The student attends the HU		José Eleuterio González"
	radiological studies and	Emergency Room and does		
	collects studies and their	the following:	Procedural content	
	corresponding	-In the Triage area, together	Management of the clinical	
	interpretation.	with the nurse, perform the	record in accordance with the	
	Deliver clinical file to	initial evaluation of the	Official Mexican Standard for	
	Nursing.	patients (Triage) and	filling out the Clinical Record:	
	Take the medical history.	determine the physical area	records notes, diagnostic	
	Perform the physical	where the patient will be sent	studies and describes	
	examination.	according to the classification	therapeutic procedures.	
	Adequately presents the	severity and diagnosis.		
	clinical case		Evaluation of patients and	
			clinical cases.	

integrating immediate, and future treatment plans.

Record immediate and future diagnosis and treatment plans.

 Registers all patients who come to the Department according to the established electronic format.

-Fill out the electronic forms for recording the procedures carried out in the Department.

-Fill out the format of the electronic statistical journal of income and expenses.

-It is responsible for verifying that the Informed Medical Treatment Consent is properly completed in the File.

Preparation of the clinical history.

Physical examination.

Oral and written presentation of clinical cases.

Classification of emergencies in Triage.

Transfer of patients.

Filling out laboratory and cabinet exam request forms

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Attitudinal content

About for the rules of conduct.

Proper use of clothing and work materials and instruments.

Respect for patients, patient families, teachers, team

multidisciplinary and	
colleagues.	
Teamwork.	
Appropriate use of	
language	

Stage 2. Surgical Emergencies:

Identify surgical emergencies, through adequate clinical and office correlation to be diagnosed in a timely manner and initiate the relevant treatment.

•		

Evidence of learning	Performance criteria	Learning activities	Contents	Resources
Performance	Sutures and	Presentation of the contents	Conceptual Content	Classrooms of the Faculty
evaluation in the suture	Traumatology Area:	orally, with visual support.	Surgical emergencies	of Medicine.
area	-Make the initial	In the oral presentation, the	Chest Trauma	
arca		teacher maintains	Rattlesnake bites.	Textbooks.
•	emergency note.	interaction with the students	Pediatric Trauma and	
	-Request necessary	in relation to the knowledge	Pregnancy.	Audiovisual material.
	material for	obtained in the review of	Abdominal trauma.	
	procedure.	material individually.	Wounds from a firearm	Official Mexican
	-Suture wounds, after	The teacher corroborates	projectile.	STANDARD NOM-004-
	ŕ	the integration of the	Burns.	SSA3-2012, from the
	asepsis and	concepts and provides	Airway Management.	clinical file
	antisepsis.		Lumbar pain and traumatic	
		clinical examples.	knee.	Emergency Department
			Neck and spine trauma.	Shock Trauma, Hospital

-Performs cures, after	The student assigned to the	Acute Abdominal Pain.	Universitario, "Dr. José
asepsis and	sutures and traumatology	Craniocerebral Trauma.	Eleuterio González".
antisepsis.	area performs the following: -Request the patient's Clinical Record to be able to make	Fractures and Sprains. Management of shock.	
- Place sharps waste in rigid containers. -Returns the material at the end of the procedure and records it in the file.	Record to be able to make notes on the findings found, as well as record the requested diagnostic studies, as well as a description of the therapeutic procedures performed. Assists Professors and Residents in special procedures to be performed in the suture room, -Record any type of clinical-surgical procedure in the clinical recordFill out the standardized forms -Identifies samples and delivers them to the nurse in charge.	Procedural content Management of the clinical record in accordance with the Official Mexican Standard for filling out the Clinical Record: records notes, diagnostic studies and describes therapeutic procedures. Perform healing. Assists special procedures. Management of clinical and surgical material. Sample management. Oral and written presentation of clinical cases.	

Guids the patient about Filling out laboratory and their follow-up in the office exam request corresponding service. forms. -Request the necessary **Attitudinal Content** material to carry out the procedure Respect for the rules of that warranted depending on conduct. Proper use of clothing the case. being responsible for its return. and work materials and -Performs healing. instruments. -Explains the indicated Respect for patients, therapy to patients. patients' families, - Verifies the correct teachers, registration of the patient multidisciplinary team in the computer system and colleagues. and in the admission and Teamwork. discharge diary, regarding Appropriate of use personal data, as well as language laboratory studies and examinations, presumptive diagnosis and procedures. -According to the patient's clinical situation, student will deliver the

complete file with the
corresponding
classification international
diseases (tenth edition,
ICD-10)
-It is responsible for
verifying that the Informed
Medical Treatment
Consent is properly
completed in the File.

Stage 3. Medical Emergencies.

Competition element:

Determine medical emergencies, categorizing those that pose an immediate danger to life, for initial treatment in the emergency service, in order to apply the most current medical management protocols.

Evidence of learning	Performance criteria	Learning activities	Contents	Resources
Performance evaluation	Emergency	Presentation of the	Contenido Conceptual	Classrooms of the
in consultation	Consultation:	contents orally, with visual	Medical Emergencies	Faculty of Medicine.
	Take medical history.	support.	Management of the	
	Perform physical	In the oral presentation, the	Contagious Infected	Textbooks.
	examination.	teacher interacts with the	Patient.	
	Presentation of the	students in relation to the	Cardiopulmonary	Audiovisual material.
	case.	knowledge	resuscitation.	

	Record immediate and		Gastrointestinal tract	Official Mexican
	future diagnosis and	obtained in the review of	bleeding.	STANDARD NOM-004-
	treatment plans.	material individually.		SSA3-2012, from the
	Complete the	The teacher corroborates	Respiratory failure and	clinical file
	application for	the integration of the	COPD.	
	laboratory and cabinet	concepts and provides		Shock Trauma
	tests properly.	clinical examples.	Cardiopulmonary	Emergency Department,
	Records the diagnostic		resuscitation.	University Hospital, "Dr.
	and/or therapeutic	The student attends the	Anaphylaxis.	José Eleuterio
	procedures of the	HU Emergency Room and	Acute kidney failure.	González".
	patients under their	does the following:	Heart failure and	
	care.	-In the Triage area,	arrhythmias.	
	Accompanies patient to	together with the nurse,	Neurological	
	radiological study and	perform the initial	emergencies.	
	collects study and	evaluation of the patients	Intoxications and	
	interpretation.	(Triage) and determine the	poisoning. Chest	
Evaluation of	Deliver clinical file to	physical area where the	pain and acute coronary	
performance in the	Nursing.	patient will be sent	syndrome.	
observation area.		according to the severity	Pain management and	
		classification and their	sedation.	
	Observation area:	diagnosis.	Hypertensive emergency	
	Receives SBAR	-Register all patients who	and urgency.	
		come to the Department	Pneumonia.	
	patients	according to the	Intoxications.	

		established electronic		
	Correctly take vital	format.	Procedural Content	
	signs			
Performance evaluation	Diago urinary oothotora		Management of the	
in the suture area	Place urinary catheters	- Fill out the electronic	clinical record in	
	Take venous/arterial	forms for recording the	accordance with the	
	gases	procedures carried out in	Official Mexican Standard	
		the Department.	for filling out the Clinical	
	Take capillary	-Fill out the format of the	Record: registration of	
	glucometry	electronic statistical journal	personal data; complete	
		of income and medical	medical history; notes of	
		cischarge.	findings, progress notes,	
	Make a note of	In the area of sutures and	diagnostic studies,	
	emergency progress	traumatology, perform the	therapeutic procedures,	
	Make the initial	following:	consultations, consent for	
	emergency note.	-Request the patient's	medical treatment.	
	Request material	Clinical Record to be able		
	necessary for	to make notes on the	Evaluation of patients	
	procedure.	findings found, as well as	and clinical cases.	
	Suture wounds, after	record the requested		
	asepsis and antisepsis.	diagnostic studies, as well	Preparation of the clinical	
	Performs cures, after	as a description of the	history.	
	asepsis and antisepsis.	therapeutic procedures		
		performed.	Physical examination.	

Place sharps waste in	- Assists Professors and		
rigid containers.	Residents in special	Oral and written	
Record the procedures	procedures to be	presentation of clinical	
in the clinical record	performed in the suture	cases.	
	room,		
	-Record any type of	Classification of	
	clinical-surgical procedure	emergencies in Triage.	
	in the clinical record.		
	-Fill out the standardized	Mobilization and transfer	
	forms	of patients.	
	-Identifies samples and		
	delivers them to the nurse	Filling out laboratory and	
	in charge.	office exam request	
	- Guides the patient about	forms.	
	their follow-up in the		
	corresponding service.	Perform cures	
	-Request the necessary		
	material to carry out the	Assists special	
	procedure that is	procedures.	
	warranted depending on		
	the case, being	Management of clinical	
	responsible for its return.	and surgical material.	
	-Performs cures.		

Explains the indicated Tissue Sample therapy to patients. management -Verifies the **Attitudinal Content** correct registration of the patient in the computer system and Respect for the rules of in the admission and conduct. discharge diary, regarding Proper use of clothing personal data, as well as and work materials and laboratory studies and instruments. examinations, presumptive diagnosis and procedures. Respect for patients, -According to the patient's patients' families, clinical situation, the MIP teachers, will deliver the complete file multidisciplinary team with the corresponding and colleagues. international classification Teamwork. of diseases (tenth edition, Appropriate of use ICD-10). language.

	in the area of observation	
	and acute resuscitation,	
	the student performs the	
	following:	
	-Receives the guard,	
	verifying in the file the	
	complete record of what	
	was delivered, where	
	laboratory and office	
	studies are made explicit.	
	-Carry out or manage the	
	pending tasks of the	
	assigned patient, from	
	procedures to	
	administrative procedures.	
	-Collaborates with the	
	nursing staff in the	
	installation of the assigned	
	patient in the room, where	
	he removes clothing,	
	places electrodes, ensures	
	that the patient is identified	
	and subsequently takes	

the medical history in the
established format.
established format.
- After preparing the
clinical history, he
presents the case to the
professors and residents,
who will give him
instructions regarding the
procedure to follow.
-Supports nursing staff in
the installation of probes,
catheters, etc.
-Supports and/or performs
invasive procedures that
the patient requires, under
authorization and
supervision of the Medical
or Nursing staff in charge.
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- Fill out the paperwork
corresponding to the
laboratory and office
studies, as well as the
interconsultations
requested from your
patient, integrating all of
the above into the Clinical
History and ensuring that it
is attached to the file,
ordered according to the
Official Mexican Standard
for filling out the Clinical
Record.
-Assists support staff in the
mobilization and transfer of
patients.

- He is responsible for
accompanying and caring
for the patient at all times
during transfers and
carrying out laboratory and
imaging studies.
-Assists the resident doctor
in resuscitation area ,
according to the Action
Cards assigned to him
from ABCDE. In these
cases, he is in charge of
preparing the Previous
Medical Report (original
and copy), to later present
it to the resident doctor on
duty and Professor, for his
corresponding
authorization and
signature.

	- It is responsible for	
	verifying that the Informed	
	Medical Treatment	
	Consent is properly	
	completed in the File.	
7. Comprehensive evaluation of processes at Clinical competencies (medical shift) Attitudinal competencies,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
8. Integrative learning product of the learning .	unit (PIA)	
Resolution of clinical case that includes Physical examination. Interpretation of office and laboration.	oratory exams.	

- Diagnosis and differential diagnoses.
- Treatment and prognosis.
- 9. Fuentes de apoyo y consulta (bibliografía, hemerografía, fuentes electrónicas).

Medicina de Urgencias TEXTO BASE Judith E. Tintinalli, Ed. McGraw Hill-Interamericana, 8a Edición.

Manual para Médicos del Advanced Trauma Life Support (ATLS) Editado por el American College of Surgeons, 10 edicion.

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