



MODULE DESCRIPTION (ANALYTICAL PROGRAM).

Module Information Code:	
Name of the Institution and School	Universidad Autónoma de Nuevo León, School of Medicine.
Name of the Learning Unit	Medical Sciences II
Total classroom hours for theory and/or practice.	500 hours
Total extra classroom hours	310 hours
Course Modality	Schooled
Type of academic period in which the module is offered	9th Semester
Type of Learning Unit in the Curriculum	Compulsory
Curriculum area:	ACFP-I
UANL credit points	27
Date of module creation:	October 8, 2014
Date of last amendment:	February 26, 2021
Person(s) responsible for the module design and amendments:	Dr. med. Homero Nañez Terreros.
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	Dra. Elisa Guerrero González.

The Learning Unit of Medical Sciences II consists of the study of six specialties of Internal Medicine, which are Cardiology, Nephrology, Pneumology, Rheumatology, Geriatrics and Oncology, which are integrated in learning stages. In each of these stages the most common diseases are reviewed, in which clinical skills are developed with a focus on the first level of care and from a biopsychosocial perspective. The teaching-learning process in each stage includes clinical practice in real scenarios and its corresponding analysis for a better understanding and feedback of each activity performed.

3. Purpose(s)

This Learning Unit trains the undergraduate student with respect to the integral attention of the adult, with emphasis in the diagnosis and treatment of the pathologies related to Cardiology, Nephrology, Pneumology, Rheumatology, Geriatrics and Oncology, therefore, contributes to the profile of graduation in the formation of a physician who solves the main health problems of the first level of care of the individual and the community by acquiring the ability to integrate information from the clinical history, laboratory findings and scientific evidence available to prevent and establish the diagnosis and timely management of the most prevalent diseases.

Its curricular relationship presupposes the knowledge of the structure and function of the human body through the study of Anatomy, Physiology, Histology, Embryology, Microbiology, Biochemistry and Molecular Biology, Clinical Pathology and Imaging, with the objective of using this information in the integral evaluation of a patient, through the correct elaboration of an intentional clinical history and physical examination, together with the interpretation of laboratory and imaging studies. The knowledge of Pharmacology and Toxicology is also required to allow the correct selection of the treatment, taking into account its interactions. Furthermore, it is related to all the Learning Units of the Clinical Area, as well as to Bioethics.

With respect to the general competencies of the University, this Learning Unit responds in the use of formal language, the correct use of language; the use of logical and critical thinking that allows it to make decisions within its sphere of influence; handling of computer tools; and it favors autonomous learning, which will allow it to consolidate its medical training. As for the specific competences of the profession, it contributes in the scientific knowledge and its applicability through the clinic, solving the health problems of the first level of attention and referring in a timely manner to other specialists. It also promotes effective communication with patients, their families and other professionals, in addition to knowing how to work in a multidisciplinary team and always practicing medical ethics, respect, confidentiality and social commitment.

4. Competences of the graduate profile

a. General competences contributing to this learning unit.

Instrumental skills:

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.

2. Use the logical, formal, mathematical, iconic, verbal and non-verbal languages according to their stage of life, in order to understand, interpret and express ideas, feelings, theories and streams of thinking with an ecumenical focus.

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 of ideas and scientific findings.

5. Employ logical, critical, creative and proactive thinking to analyze natural and social phenomena that let them make relevant decisions in its area of influence with social responsibility.

6. Use a second language, English in particular, with clarity and correctness to communicate in common, academic, professional and scientific contexts.

7. Develop inter, multi and transdisciplinary academic and professional proposals according to the best global practices to promote and consolidate the collaborative work.

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

Personal and social interaction skills

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.

10. Intervene in front of the challenges of contemporary society at the local and global level with a critical attitude and human, academic and professional commitment to help consolidate the general wellness and sustainable development.

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.

Integrative skills

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.

14. Resolve personal and social conflicts in accordance with specific techniques in the academic field and their profession for the proper decision making.

15. Achieve the adaptability required in uncertain professional and social environments of our time to improve living conditions.

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

Scientific Basis of Medicine

1.- Use the medicine scientific fundaments considering economical, psychological, social, cultural and environmental factors which contribute to the development and evolution of a disease for decision-making and medical actions.

Professional Clinical Practice

2.- Solves clinical problems through deductive reasoning, interpretation of findings and definition of their nature with the aim of making decisions and determine action principles of the medical practice to follow in a responsible way, 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 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.- Handle common medical emergencies, applying treatment, procedures and minor interventions and refer in an appropriate and timely manner patients who require critical care for the preservation of life.

6.- Manages human resources, diagnostic interventions, therapeutic modalities, and options on health care according to national standards, promoting a quality culture in attention and guaranteeing patients' security.

Critical Thinking and Research

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.

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.

5. Course Roadmap:



6. Structuring into stages or phases

Stage 1. Cardiology.

Component(s) of the competence:

Perform the integral study of a patient with a Cardiological disease, by means of the elaboration of complete clinical histories, in order to make the correct diagnosis and treatment, corresponding to the most common diseases of Cardiology in the first level of attention.

Evidence of student learning	Performance Criteria	Learning activities	Content	Resources
Medical History	Checklist: Complete medical history of a patient with cardiac disease including diagnosis, treatment, differential diagnosis and prognosis: Elaboration of a clinical history with all its components and the justification of the diagnosis: •Semiology (Interrogation) •Physical Examination •Diagnosis (Topographic, Syndromic, Differential) •Therapeutic Strategies Proper interpretation of assigned paraclinical exams: •Electrocardiogram •Cardiac Enzymes •Chest X-ray •Special Imaging Studies	 The student reads the topic to be discussed in class and answers the pre-class activities on the platform. In class, the professor presents the relevant concepts of the topic to be treated through images. The professor asks analytical questions. The Professor explains, clarifies and exemplifies the basic concepts and principles of what is seen in the class. The Professor interacts with the students during the class so that they achieve an understanding of the evidence requested in all its aspects. 	 Conceptual Cardiovascular Physiology Diagnostic Methods in Cardiology Congenital Hearth Disease Hearth Failure Hearth Failure Hearth Failure Treatment Cardiovascular risk factors, Aortic Pathology and Peripheral Vascular Disease Mitral-Tricuspid Valve Pathology Aorto-Pulmonary Valve Pathology Coronary Syndromes. Coronary Syndromes. Coronary Syndromes. AHT part 1 AHT part 2 Infectious Endocarditis. Pericardial Disease. Cariomyopathy. 	Classrooms of the School of Medicine and the University Hospital. Auditoriums of the Faculty of Medicine and the University Hospital Hospital consultation and/or Internal Medicine internship area Textbook Projector with audiovisual material Electronic platform Audiovisual material

Bibliographic reviews • Corresponding to the Medical History submitted	After the class the student answers activities on the platform, which refer to analysis questions derived from a clinical case. The student attends the discussion sessions, where clinical cases are analyzed.	 15. Auricular-Ventricular Blocks. Pacemaker Procedural Synthetize the clinical characteristics of clinical history, interrogation, physical examination, diagnosis and treatment of the most important cardiological diseases and 	
 Described and/or witnessed at least 2 of the following procedures and include description and indications: Central Venous Catheter Placement Permanent/temporary pacing Electrocardiogram Transthoracic Echocardiography Reperfusion therapies (systemic thrombolysis and angioplasty) Format: Official Medical History Format, download from Project/presentation 	 The students integrate a complete medical history and present it orally, the professor asks analytical questions, as well as basic concepts, where scenarios are raised and conclusions are made. The Professor explains, clarifies and exemplifies the basic concepts and principles of patient studies. The Professor leads the discussion, asking guiding questions, and posing alternative scenarios to the established ones for the student to apply the conceptual content, in this way the student explains and justifies his or her answers. 	 their differential diagnoses. Prioritize the sndromes with the greatest impact as a public health problema. Efficient search of scientific literature related to topics. Attitudinal Attitudes and values Punctuality, Attendance and permanence Participation and Respect Good Presentation Service Attitude Ethics, honesty, truth and justice Team work and solidarity. Responsability and integrity 	

Stage 2. Nephrology.

Component(s) of the competence:

Perform the integral study of a patient with a disease in Nephrology, by means of the elaboration of the complete clinical history in order to make the correct diagnosis and treatment, corresponding to the most common diseases in Nephrology, at the first level of attention.

Evidence of student learning	Performance Criteria	Learning activities	Content	Resources
learning Medical History	Checklist: Prepare a complete medical history of a patient with nephrological disease including diagnosis, treatment, differential diagnosis and prognosis: Elaboration of a clinical history with all its components and the justification of the diagnosis: • Semiology (Interrogation) • Physical Examination • Diagnosis (Topographic, Syndromic, Differential) • Therapeutic Strategies Proper interpretation of assigned paraclinical exams: • Interpretation B. Hematics, P. Biochemistry and Gasometry • Interpretation of Uroanalysis and Urinary Indicators	 The student reads the topic to be discussed in class and answers the pre-class activities on the platform. In class, the professor presents the relevant concepts of the topic to be treated through images. The professor asks analytical questions. The Professor explains, clarifies and exemplifies the basic concepts and principles of what is seen in the class. The Professor interacts with the students during the class so that they achieve an understanding of the evidence requested in all its aspects. After the class the student answers activities on the platform, which refer to analysis questions derived from a clinical case. 	Conceptual 1. Clinical Evaluation. Laboratory and Cabinet studies. 2. Primary Arterial Hypertension 3. Secondary Arterial Hypertension 4. Unirary tract Infectio 5. Litiasis 6. Nephritic Syndrome. 7. Intersitial tuve Nephropathy 8. Diabetic Nephropathy 9. Acute Kidey Injury 10. Chorinc Kidney Disease (definition and diagnosis) 11. Chornic Kidney Disease (conservative treatament and goals) 12. Renal Replacement Therapy	Classrooms of the School of Medicine and the University Hospital. Auditoriums of the Faculty of Medicine and the University Hospital Hospital consultation and/or Internal Medicine internship area Textbook Projector with audiovisual material Electronic platform Audiovisual material

 Interpretation of Kidney and Urinary Tract Ultrasound Glomerular Filtration Rate (GFR) Calculation Bibliographic reviews Corresponding to the Medical History submitted Described and/or witnessed at least 2 of the following procedures and include description and indications: Vascular Access Placement Hemodialysis Procedure Peritoneal Dialysis Procedure Renal Transplant Renal Biopsy Format: Official Medical History Format, download from Project/presentation 	 The student attends the discussion sessions, where clinical cases are analyzed. The students integrate a complete medical history and present it orally, the professor asks analytical questions, as well as basic concepts, where scenarios are raised and conclusions are made. The Professor explains, clarifies and exemplifies the basic concepts and principles of patient studies. The Professor leads the discussion, asking guiding questions, and posing alternative scenarios to the established ones for the student to apply the conceptual content, in this way the student explains and justifies his or her answers. Students attend the Guard, where their main activities are: Make Medical Records (3) Watches or assists in: Vascular Access Placement Hemodialvsis 	 (peritoneal dialysis and hemodialysis) 13. Renal Replacement Therapy (donation and kidney trasplantation) 14. Hydroelectrolytic disorders (water, sodium, potassium) 15. Acid-base disorder. Procedural Synthetize the clinical characteristics of clinical history, interrogation, physical examination, diagnosis and treatment of the most important kidney diseases and their differential diagnoses. Prioritize the sndromes with the greatest impact as a public health problema. Efficient search of scientific literature related to topics. Attitudinal Attitudes and values Punctuality, Attendance and permanence Participation and Respect 	
	 Placement Hemodialysis Procedure 	Good Presentation	
		Service Attitude	

	 Peritoneal Dialysis Procedure Renal Transplant Renal Biopsy Receive Basic CPR training Receive HTA crisis management training Receives training in the management of nephrotic, nephritic and uremic syndrome Receives training to interpret: BH,QS,ES,Gasometries, General of Urine. Examines assigned patient with interrogation, physical examination, required paraclinical studies, diagnosis and treatment. The Professor explains, clarifies and exemplifies the basic concepts and principles of the patient's studies 	 Ethics, honesty, truth and justice Team work and solidarity. Responsability and integrity 	

Stage 3. Pneumology.

Component(s) of the competence:

Perform a comprehensive study of a patient with a Pneumological disease, through the preparation of a complete clinical history in order to make the correct diagnosis and treatment, corresponding to the most common diseases of Pneumology in the first level of care.

Evidence of student learning	Performance Criteria	Learning activities	Content	Resources
Medical History	Checklist: Prepare a complete medical history of a patient with a pneumological condition including diagnosis, treatment, differential diagnosis and prognosis: Elaboration of a clinical history with all its components and the justification of the diagnosis: • Semiology (Interrogation) • Physical Examination • Diagnosis (Topographic, Syndromic, Differential) • Therapeutic Strategies Proper interpretation of assigned paraclinical exams: • Interpretation Chest X-ray • Spirometry Interpretation • Arterial Gasometry Interpretation of Basic interpretation of Thoracic Tomography	 The student reads the topic to be discussed in class and answers the pre-class activities on the platform. In class the professor presents the relevant concepts of the topic to be treated through images. The professor asks analytical questions. The Professor explains, clarifies and exemplifies the basic concepts and principles of what is seen in the class. The Professor interacts with the students during the class so that they achieve an understanding of the evidence requested in all its aspects. After the class the student answers activities on the platform, which refer to 	Conceptual 1. Acute Respiratory Insufficency. 2. Image studies. CAT SCANS. Spirometry. 3. Upper Respiratory Infections: Viral and Bacterial. 4. Community- adquired pneumonia 5. Pulmonary Abscess and Bronchiectasis 6. Pulmonary Tuberculosis Part 1. 7. Pulmonary Tuberculosis Part 2. 8. Coccidioidomycosis 9. Chronic Obstructive Pulmonary Disease 10. Lung Cancer 11. Asthma 12. Obstructive Sleep Apnea 13. Pleural diseases. Pleural effusions. Pneumothorax 14. Interstitial Lung Disease. 15. Venous Thromboembolic Disease.	Classrooms of the School of Medicine and the University Hospital. Auditoriums of the Faculty of Medicine and the University Hospital Hospital consultation and/or Internal Medicine internship area Textbook Projector with audiovisual material Electronic platform Audiovisual material

Bibliographic reviews • Corresponding to the Medical History submitted Described and/or witnessed at least 2 of the following procedures and include description and indications: • Thoracentesis • Bronchoscopy • Thoracic ultrasound • Placement of pleural catheter • Performing spirometry Format: • Official Medical History Format, download from Project/presentation	 analysis questions derived from a clinical case. The student attends the discussion sessions, where clinical cases are analyzed. The students integrate a complete medical history and present it orally, the professor asks analytical questions, as well as basic concepts, where scenarios are raised and conclusions are made. The Professor explains, clarifies and exemplifies the basic concepts and principles of patient studies. The Professor leads the discussion, asking guiding questions, and posing 	 Procedural Content Synthetize the clinical characteristics of clinical history, interrogation, physical examination, diagnosis and treatment of the most important lung diseases and their differential diagnoses. Prioritize the sndromes with the greatest impact as a public health problema. Efficient search of scientific literature related to topics. Attitudinal Attitudes and values Punctuality, Attendance and permanence 	
 Bronchoscopy Thoracic ultrasound Placement of pleural catheter Performing spirometry 	 scenarios are raised and conclusions are made. The Professor explains, clarifies and exemplifies the basic concepts and principles of patient. 	 with the greatest impact as a public health problema. Efficient search of scientific literature related to topics 	
Format:	studies.	Attitudinal	
Official Medical History Format, download from Project/presentation	The Professor leads the discussion, asking guiding questions, and posing alternative scenarios to the established ones for the student to apply the conceptual content, in this way the student explains and justifies his or her answers. Students attend the Guard, where their main activities are: • Make Medical Records (3) • Watches or assists in:	Attitudes and values • Punctuality, Attendance and permanence • Participation and Respect • Good Presentation • Service Attitude • Ethics, honesty, truth and justice • Team work and solidarity. Responsability and integrity	
	 Watches or assists in: Thoracentesis Bronchoscopy Thoracic ultrasound 		

- Discoment of
O FIDUEITIETIL UI
pieurai catheter
o Performing
spirometry
Receive Basic CPR
training
Receive training in asthma
crisis management
Receive training in
tuberculosis
management
Receives training to
• Noterorat:
BH OS ES Cocompetico
Chest X-ray and
Spirometries.
Examines assigned patient
with interrogation,
physical examination,
required paraclinical
studies, diagnosis and
treatment
• The Professor explains
 The Professor explains, derifies and exemplifies
ciannes and exemplines
the basic concepts and
principles of patient
studies.

Stage 4. Rheumatology.

Component(s) of the competence:

Perform the integral study of a patient with a Rheumatology disease, by means of the elaboration of the complete clinical history in order to make the correct diagnosis and treatment, corresponding to the most common diseases of Rheumatology in the first level of attention.

Evidence of student learning	Performance Criteria	Learning activities	Content	Resources
Medical History	Checklist: Prepare a complete medical history of a patient with rheumatological disease including diagnosis, treatment, differential diagnosis and prognosis: Elaboration of a clinical history with all its components and the justification of the diagnosis: • Semiology (Interrogation) • Physical Examination • Diagnosis (Topographic, Syndromic, Differential) • Therapeutic Strategies Proper interpretation of assigned paraclinical exams: • Interpretation of basic radiographic studies in Rheumatology • Interpretation of basic laboratory studies in Rheumatology	The student reads the topic to be discussed in class and answers the pre-class activities on the platform. In class the professor presents the relevant concepts of the topic to be treated through images. The professor asks analytical questions. • The Professor explains, clarifies and exemplifies the basic concepts and principles of what is seen in the class. • The Professor interacts with the students during the class so that they achieve an understanding of the evidence requested in all its aspects. After the class the student answers activities on the platform, which refer to analysis questions derived from a clinical case.	Conceptual Classification of Rheumatic Diseases Rheumatoid Arthritis. Part 1 / Early Arthritis Rheumatoid Arthritis. Part 2 / Generalized Lupus Erythematosus. Part 1 Generalized Lupus Erythematosus. Part 2. Antiphospholipid syndromes Lyme disease / Septic arthritis Scleroderma Spondyloarthritis Fibromyalgia Gout Inflammatory Myopaties, Mixed Connective Tissue Disease Osteoarthrosis Sjögren syndrome Vasculitis 	Classrooms of the School of Medicine and the University Hospital. Auditoriums of the Faculty of Medicine and the University Hospital Hospital consultation and/or Internal Medicine internship area Textbook Projector with audiovisual material Electronic platform Audiovisual material

	The student attends the	Procedural	
Interpretation of	discussion sessions, where	 Synthetize the clinical 	
immunorheumatological	clinical cases are analyzed	characteristics of	
tests	The students	clinical history	
Compound indexes of	integrate a complete medical	interrogation physical	
Compound indexes of activity in Phoumatology	history and present it orally	examination diagnosis	
activity in Kneumatology	the professor asks analytical	and treatment of the	
	questions as well as basic	most important	
Bibliographic roviews	concepts, where scenarios	rheumatic diseases	
Bibliographic reviews	are raised and conclusions	and their differential	
Corresponding to the Medical History	are made	diagnoses	
	The Professor	 Prioritize the sndromes 	
Submitted	explains clarifies and	with the greatest	
Described and/or	exemplifies the basic	impact as a public	
Described and/or	concepts and principles of	health problema	
witnessed at least 2 of the	nationt studies	 Efficient search of 	
following procedures and	patient statics.	scientific literature	
include description and	The Professor leads the	related to topics	
	discussion asking guiding	related to topics.	
Rheumatological Physical	questions, and posing	Attitudinal	
Examination	alternative scenarios to the	Attitudes and values	
Arthrocentesis	established ones for the	Punctuality Attendance	
Joint infiltration	student to apply the	and permanence	
Capillaroscopy	concentual content in this	Participation and	
	way the student explains and	Respect	
	justifies his or her answers		
	justifies his of her answers.	Service Attitude	
Format:	Students attend the Guard	• Ethics honesty truth	
Official Medical History	where their main activities	and justice	
Format, download from	are.	• Team work and	
Project/presentation	Make Medical	solidarity	
	Records (3)	Responsability and	
	Watches or assists	integrity	
	in:		
	Rheumatological		
	Physical		
	Examination		
	Arthrocentesis		
	Joint infiltration		
	Capillaroscopy		

Stage 5. Geriatrics.

Component(s) of the competence:

Perform the integral study of a patient with a Geriatric disease, through the elaboration of the complete clinical history in order to make the correct diagnosis and treatment, corresponding to the most common diseases in Geriatrics at the first level of care.

Evidence of student learning	Performance Criteria	Learning activities	Content	Resources
Medical History	Checklist: Prepare a complete medical history of a geriatric patient including diagnosis, treatment, differential diagnosis and prognosis: Elaboration of a clinical history with all its	The student reads the topic to be discussed in class and answers the pre-class activities on the platform. In class the professor presents the relevant concepts of the topic to be treated through images. The	 Conceptual Aging, geriatrics and gerontology. Theories of aging. Physiology of aging. Pharmacology aging. Demography and propaedeutics in geriatrics 	Classrooms of the School of Medicine and the University Hospital. Auditoriums of the Faculty of Medicine and the University Hospital Hospital consultation and/or Internal Medicine internship area Textbook Projector with audiovisual

justification of the	professor asks analytical	5. Geriatric evaluation	Electronic platform
diagnosis:	questions.	and geriatric	Audiovisual material
Semiology (Interrogation)	•	syndromes	
Physical Examination	The Professor	6. Memory disorders	
Diagnosis (Topographic.	explains, clarifies and	7. Affective and sleep	
Syndromic Differential)	exemplifies the basic	disorders	
Therapeutic Strategies	concepts and principles of	8. Walking and falling	
	what is seen in the class.	9. Fragile syndrome	
Proper interpretation of:		10. Incontinence	
Folstein MiniMental	The Professor	11. Pressure Sores	
Geriatric Depression	interacts with the students	and Foot problems	
Scale	during the class so that they	12. Nutrition and	
Katz Scale	achieve an understanding of	Sarcopenia	
Lawton Brody Scale	the evidence requested in all	13. Hyporexia	
Clobal Scale of	its aspects.	14. Pain	
Cognitive		15. Rehabilitation	
Impairment	After the class the student		
Bockwood Fragility	answers activities on the		
 Rockwood Fragility Scale 	platform, which refer to	Procedural	
	analysis questions derived	 Synthetize the clinical 	
	from a clinical case.	characteristics of	
Assessment		clinical history,	
Eall Pick Scale		interrogation, physical	
		examination, diagnosis	
Gijuli Scale		and treatment of the	
Bibliographic reviews	The student attends the	most important geriatric	
Corresponding to the Medical History	discussion sessions, where	diseases and their	
	clinical cases are analyzed.	differential diagnoses.	
		Prioritize the sndromes	
Recent (last 5 years)	• I he students	with the greatest	
Keiated to Geriatfic	integrate a complete medical	impact as a public	
Syndiome	history and present it orally,	nealth problema.	
Described and/or	the professor asks analytical	EITICIENT SEARCH OF	
witnessed at least 2 of the	questions, as well as basic		
following scales and	concepts, where scenarios		
includes description and	are raised and conclusions	Attitudinal	
indications.	The Professor	Attitudes and values	
Folstein MiniMental	explains clarifies and	Punctuality Attendance	
	explains, claimes and	and permanence	
	eventhines me nasic	and permanence	

 Geriatric Depression Scale Katz Scale Lawton Brody Scale Global Scale of Cognitive Impairment Rockwood Fragility Scale Mini-nutritional Assessment Fall Risk Scale Gijon Scale Format: Official Medical History Format, download from Project/presentation 	concepts and principles of patient studies. The Professor leads the discussion, asking guiding questions, and posing alternative scenarios to the established ones for the student to apply the conceptual content, in this way the student explains and justifies his or her answers. Students attend the Guard, where their main activities are: Make Medical Records (3)	 Participation and Respect Good Presentation Service Attitude Ethics, honesty, truth and justice Team work and solidarity. Responsability and integrity 	

Stage 6. Oncology.

Component(s) of the competence:

Perform the comprehensive study of a patient with an oncological disease, through the preparation of a complete clinical history in order to make the correct diagnosis and treatment, corresponding to the most common diseases of Oncology in the first level of care

Evidence of student learning	Performance Criteria	Learning activities	Content	Resources
Evidence of student learning Medical History	Performance Criteria Checklist: Prepare a complete medical history of a patient with oncological condition including diagnosis, treatment, differential diagnosis and prognosis: Elaboration of a clinical history with all its components and the justification of the diagnosis: • Semiology (Interrogation) • Physical Examination • Diagnosis (Topographic, Syndromic, Differential) • Therapeutic	Learning activities The student reads the topic to be discussed in class and answers the pre-class activities on the platform. In class the professor presents the relevant concepts of the topic to be treated through images. The professor asks analytical questions. • The Professor explains, clarifies and exemplifies the basic concepts and principles of what is seen in the class. • The Professor interacts with the students during the class so that they achieve an understanding of the evidence requested in all its aspects	ContentConceptual1.Introduction to Cancer2.Breast Cancer3.Genitourinary Tumors (prostate, bladder and kidney)4.Colorectal cancer5.Cervical cancer6.Lung cancer7.Esophago-gastric cancer8.Endometrial cancer9.Hepatocellular cancer10.Ovarian cancer11.Testicular cancer12.Gestational trophoblastic disease13.Pediatric Tumors14.Central Nervous System	Resources Classrooms of the School of Medicine and the University Hospital. Auditoriums of the Faculty of Medicine and the University Hospital Hospital consultation and/or Internal Medicine internship area Textbook Projector with audiovisual material Electronic platform Audiovisual material
	• Therapeutic Strategies	its aspects.	System 15. Psycho-oncology	
	Proper interpretation of assigned paraclinical exams:	After the class the student answers activities on the platform, which refer to	and oncological palliativ care	
	Tumor markers	from a clinical case.	-Analize the format of the medical history in Oncology	

 Image studies for TNM staging Bibliographic reviews Corresponding to the Medical History submitted Described and/or witnessed at least 2 of the following procedures and include description and indications: Chemotherapy application procedure Radiation therapy simulation procedure Radiation therapy application procedure Format: 	 The student attends the discussion sessions, where clinical cases are analyzed. The students integrate a complete medical history and present it orally, the professor asks analytical questions, as well as basic concepts, where scenarios are raised and conclusions are made. The Professor explains, clarifies and exemplifies the basic concepts and principles of patient studies. The Professor leads the discussion, asking guiding questions, and posing alternative scenarios to the established ones for the student to apply the 	 Synthetize the clinical characteristics of clinical history, interrogation, physical examination, diagnosis and treatment of the most important geriatric diseases and their differential diagnoses. Apply intentional interrogation Describe the different laboratories and cabinet diagnositc methods used. Prioritize the sndromes with the greatest impact as a public health problema. Efficient search of scientific literature related to topics. Attitudinal Attitudes and values Participation and Respect Good Presentation 	
 Radiation procedure Radiation therapy application procedure Format: Official Medical History Format, download from Project/presentation 	 The Professor leads the discussion, asking guiding questions, and posing alternative scenarios to the established ones for the student to apply the conceptual content, in this way the student explains and justifies his or her answers. Students attend the Guard, where their main activities are: Make Medical Records (3) 	Attitudinal Attitudes and values • Punctuality, Attendance and permanence • Participation and Respect • Good Presentation • Service Attitude • Ethics, honesty, truth and justice • Team work and solidarity. • Responsability and integrity	

7. Summative Evaluation

		CARDIOLOGY				NEPHROLOGY				PNEUM	PNEUMOLOGY		
1		Rubric	Value	Breakdown - Value		Rubric	Value	Breakdown - Value		Rubric	Value	Breakdown - Value	
		TUFORY	80%	EXAM - 95 POINTS		THEORY	80%	EXAM - 95 POINTS		THEORY	80%	EXAM - 95 POINTS	
1		THEORY	100 POINTS	PLATFORM - 5 POINTS			100 POINTS	PLATFORM - 5 POINTS			100 POINTS	PLATFORM - 5 POINTS	
1_	_	DRACTICE	20%	DIALOGUE		DRACTICE	20%	DIALOGUE		-	20%	DIALOGUE	
	Λ	PRACTICE 100 POINTS *ASSISTANCE CHECK 80%	PRACTICE	100 POINTS	*ASSISTANCE CHECK 80%		PRACTICE	100 POINTS	*ASSISTANCE CHECK 80%				
I Y	U II		100% = 15 POINTS (OF TOTAL AVERAGE)			100% = 15 POINTS (OF TOTAL AVERAGE)			100% = 15 POINTS (OF TOTAL AVERAGE)				
J	U												
l –	RHEUMATOLOGY			GERIATRICS			ONCOLOGY						
]		Rubric	Value	Breakdown - Value		Rubric	Value	Breakdown - Value		Rubric	Value	Breakdown - Value	
POI	NTS	TUFORY	80%	EXAM - 95 POINTS		TUFORY	80%	EXAM - 95 POINTS		TUFORY	80%	EXAM - 95 POINTS	
		THEORY	100 POINTS	PLATFORM - 5 POINTS		THEORY	100 POINTS	PLATFORM - 5 POINTS		THEORY	100 POINTS	PLATFORM - 5 POINTS	
		DRACTICE	20%	DIALOGUE		DBACTICE.	20%	DIALOGUE		DRACTICE	20%	DIALOGUE	
		PRACTICE	100 POINTS	*ASSISTANCE CHECK 80%		PRACTICE	100 POINTS	*ASSISTANCE CHECK 80%		PRACTICE	100 POINTS	*ASSISTANCE CHECK 80%	
		100% = 15 POINTS (OF TOTAL AVERAGE)				100% = 15 POINTS (OF TOTAL AVERAGE)			100% = 15 POINTS (OF TOTAL AVERAGE)				



To pass this Learning Unit it is necessary to pass both sections: both the 6 Stages, On-call duty, Platform and CIP activities together and the Final Exam independently, this means that the student must obtain at least a score of 70 in 6 Stages, On-call duty, Platform and CIP activities and 70 in Final Exam. If you get a score below 70 in either area, you will automatically fail the course.

The points of the evidence and the PIA will be taken into account for your final grade only in the ordinary exam.

8. Course Integrative Product:

Portfolio in which all the above-mentioned evidence is presented in order and on time.

9. References

Cecil Textbook of Medicine. En inglés, Goldman/Ausiello, 25th. Edition, Ed.Saunders. Año 2015

Reference Bibliography

- Kasper, D. L., & Harrison, T. R. (2018). Harrison's principles of internal medicine. New York: McGraw-Hill, Medical Pub. Division.
- Casciato, D. & Territo, M. (2013). Manual de Oncología Clínica. Philadelphia, PA: Lippincott Williams & Wilkins.
- Rose B., Post T. (2002). Trastornos de los electrolitos y del equilibrio ácido-base. México: Marban.
- Brocklehurts. Textbooks of Geriatric Medicine an Gerontology. 8th Edition
- Gilbert, S. (2018). National Kidney Foundation Primer on Kidney Diseases.: Elsevier
- Mann, D. L., Zipes, D. P., Libby, P., Bonow, R. O., & Braunwald, E. (2015). Braunwald's heart disease: A textbook of cardiovascular medicine (Tenth edition.). Philadelphia, PA: Elsevier/Saunders

Electronic resources

http://medicina.uanl.mx/medicinainterna/?page_id=40

http://www.medicina.uanl.mx/plataforma/

http://www.ilae.org/Commission/Class/documents/Spanish-Berg2010.pdf

APPENDIX.

ASSESSMENT AND WORKLOAD

	Module workload	Number of hours	Percentage					
Contact hours	Class-based instruction	89h (17.8%)	61.72%=					
Contact nours	Discussion of clinical cases	135h (27%)	500 hours					
	Clinical practice (consultation)	48h (9.6%)						
	On-call duty	216h (43.2%)						
	Exam taking	12h (2.4%)						
Independent	Study	150h (48.38%)	38.27%=					
study	Exam preparation	120h (38.70%)	310 hours					
	Activities assigned via platform	20h (6.45%)						
	Course integrative product (CIP)	20h (6.45%)						
Total hours of	the workload: 30 hours X 27 credits	810 h						
UANL/ECTS*	JANL/ECTS*							

*European Credit Transfer and Accumulation System

1 UANL credit = 30 hours

NOTE: Rubrics, checklists and evaluation formats are elaborated by using the performance criteria described in each stage of the module.

SUPLEMENTO COVID-19

Siguiendo las recomendaciones de la Secretaría de Salud del país y la Rectoría de la Universidad, ante la coyuntura de salud COVID-19, la organización de la docencia desde marzo del 2020, seguirá un modelo híbrido, donde la docencia se ajustará a los horarios aprobados por la Secretaría de Salud siguiendo un modelo de Presencialidad / No presencialidad en la medida en que las circunstancias sanitarias y la normativa lo permitan. Los estudiantes asistirán a las clases de manera no presencial mediante la transmisión de las mismas de manera síncrona/asíncrona vía "on line".