



جامعة بنها
كلية الطب البشرى
قسم طب و رعاية الحالات الحرجة

توصيف برنامج ماجستير طب و رعاية الحالات الحرجة
(2025-2026)

Master of Science in Critical Care Medicine

Basic information : * معلومات أساسية :

1 - اسم البرنامج :ماجستير طب و رعاية الحالات الحرجة.
Master of Science in Critical Care Medicine

2 - طبيعة البرنامج :single

3- القسم/ الأقسام المسئولة عن البرنامج:

- القسم المسئول: قسم طب و رعاية الحالات الحرجة.
- الأقسام المشاركة:

Physiology, Pharmacology, Biochemistry, Microbiology, Clinical
Pathology and internal medicine.

4- تاريخ إقرار البرنامج فى مجلس القسم : 2020/9/1

5- تاريخ إقرار البرنامج فى مجلس الكلية: 20.20/9/15

6- مسؤل البرنامج: أ.د/احمد مصطفى .

7- المراجعة الداخلية للبرنامج: . أ.د/أحمد جودة الجزار

8- المراجعة الخارجية للبرنامج: أ.د/احمد الشريف.

Professional information : * معلومات متخصصة :

1 - الأهداف العامة للبرنامج :



1- Program aims:

The overall aims of the program are to:

- 1.1 To enable** candidates to keep with national standards of patients care by teaching high level of clinical skills, bedside Care skills, in addition to update medical knowledge as well as Clinical experience and competence in the area of critical and intermediate care units, besides dealing with emergent cases In emergency unit and enabling the candidates of making appropriate referrals to a sub-specialist.
- 1.2 Provide** candidates with fundamental knowledge in critical care unit as regards; dealing with critically ill patients, ICU equipment, techniques, indications, contraindications and training skills of different critical care techniques.
- 1.3 To introduce** candidates to the basics of scientific medical research.
- 1.4 Enable the** candidates to start professional careers a Specialists in Egypt but recognized abroad.
- 1.5 Enabling** the candidates to understand and get the best of published scientific research and do their own.



2 - المخرجات التعليمية المستهدفة من البرنامج :

2-Intended Learning Outcomes (ILOS):

2.1. Knowledge and

أ.2 - المعرفة والفهم : Understanding

On successful completion of the program, the graduate will be able to:

2.a.1. Identify the principles of the basic physiology, pharmacology, Biochemistry, Microbiology, Clinical Pathology and medical facts, theories of intensive care as they apply to patients support during surgery and clinical skills necessary for resuscitation and life support as practiced in critical care facilities.

2.a.2. understand the scientific advances in the field of intensive care and related fields.

2.a.3. Know the principles and fundamentals of ethics and legal aspects of professional practice in the field of intensive care based upon social, psychological, medical and surgical understanding.

2.a.4. Recognize basic and recent advanced of the technical procedures commonly employed in intensive care practice including (airway management, cardiovascular resuscitation, patient monitoring and life support, general and regional anesthetic and analgesic techniques and post operative care.

2.a.5. Describe the principles , fundamentals and applications of quality of professional practice in the field of intensive care.

2.a.6. Recognize the principles and hypothesis of intensive care problems with surveillance and screening of all related topics

2.a.7. discuss basics and ethics of scientific research in the field of intensive care.

2.a.8. Identify the principles that govern ethical decision making in clinical practice, the scope and the impact of human rights law on persons and groups as well as the medico-legal malpractice and common medical error.

2.a.9. explain methods of promoting health in the intensive care based on physiology, pharmacology, Biochemistry, Microbiology, Clinical Pathology and medical knowledge.

2.a.10. Identify the impact of intensive care problems on quality of life, regarding health, social, psychological and financial conditions, fitness to work and personal relationships.



2.2. Intellectual : 2- القدرات الذهنية :

Skills: -

On successful completion of the program, the graduate will be able to:

- 2.b.1 Solve** some intensive care problems that do not conform to classic data (incomplete data) with guidance of physiology, pharmacology, Biochemistry, Microbiology, Clinical Pathology and medical information.
- 2.b.2. Assesse** patient data with relevance to his capabilities in the proper time or to transfer the patient to equipped center to deal with the anticipated problems.
- 2.b.3. Analyze** the information of clinical and investigational database to be proficient in clinical problem solving.
- 2.b.4. Integrate** different physiology, pharmacology, Biochemistry, Microbiology, Clinical Pathology and medical information to solve intensive care problems
- 2.b.5. Conduct** a scientific research &/or write scientific thesis in a systematic approach about an intensive care problem.
- 2.b.6. Combine** all sources of information in addition to the patient interview to interpret and evaluate the medical history. Such sources include family or friends, medical records and other health care professionals, to overcome limitations regarding information.
- 2.b.7. Evaluate** risks imposed during professional intensive care practice including internal medical problems and therapeutic and diagnostic procedures.
- 2.b.8. Plan** to improve performance in the field of intensive care based on physiology, pharmacology, Biochemistry, Microbiology, Clinical Pathology and medical background.
- 2.b.9. Make** professional decisions in different intensive situations with guidance of physiology, pharmacology, Biochemistry, Microbiology, Clinical Pathology and medical information.
- 2.b.10. Manage** Scientific discussion based on scientific evidences and proofs about intensive care topics.
- 2.b.11. Criticize** researches related to intensive care.



2-3 . مهارات مهنية وعملية : Practical and professional

Skills: *On successful completion of the program, the graduate will be able to:*

2.c.1. Obtain proper history and examine patients in caring and respectful behaviors.

2.c.2. Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, Uptodate scientific evidence, and clinical judgment for common conditions related to critical care medicine.

2.c.3. Carry out patient management plans for common conditions related to critical care medicine.

2.c.4. Use information technology to support patient care decisions and patient education in common clinical situations related to critical care medicine.

2.c.5. Perform competently non invasive and invasive procedures considered essential for the critical care medicine.

2.c.6. Provide health care services aimed at preventing health problems related to critical care medicine.

2.c.7. Provide patient-focused care in common conditions related to medical emergencies, while working with health care professionals, including those from other disciplines

2.c.8. Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets.(Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records) .

2-4. مهارات عامة ومنتقلة:

2-4. General and transferable skills:-

By the end of the program the graduate should be able to:

2.d.1 Communicate with professors and colleagues effectively using different methods.

2.d.2 Use information technology to improve his/her the intensive care practice.

2.d.3 Practice self-appraisal and determines his learning needs in the intensive care practice.

2.d.4 Use different sources of information to obtain data in the intensive care practice.

2.d.5 Share in determination of standards for evaluation of others in the intensive care practice.

2.d.6 Work in a team and work as team leader in situations comparable to his work level in the intensive care practice.

2.d.7 Manage time effectively in managing the intensive care situations.

2.d.8 Learn independently and seek continuous learning related to the intensive care.

2.d.9 Demonstrate respect to all patients irrespective of their socio-cultural or religious status in the intensive care practice.

2.d.10 Conduct patient interview with patience, attentive listening and respect in the intensive care practice.

2.d.11. Apply the principles of statistical methods for collection, presentation and analysis of all type of data.

3 - المعايير الأكاديمية للبرنامج:

3-Academic Standards:

- a. Academic Standards of Master Program of critical care medicine, approved in department (ملحق 1)

4-العلامات المرجعية:

4. Reference standards

المعايير القياسية لبرامج الدراسات العليا (درجة الماجستير) الصادرة عن الهيئة القومية لجودة التعليم والإعتماد (مارس 2009)

Academic reference standards (ARS) , Master Program (March 2009)

, which were issued by the National Authority for Quality Assurance & Accreditation of Education NAQAEE (ملحق 2)

5- Curriculum structure and contents: - هيكل ومكونات البرنامج :

5

a) 45 weeks Program duration: 4 semesters (2 years) - مدة البرنامج :

1st part: - One Semester (6 months).

2nd part: - Three Semesters (1.5 year).

Thesis:

يبدأ تسجيلها بعد اجتياز الجزء الأول بنجاح وتجاوز مناقشتها بعد مدة لا تقل عن فصلين دراسيين (سنة من تسجيلها) بشرط اجتياز الجزء الثاني بنجاح ب - هيكل البرنامج :

b. Program structure :

- Total hours of program 46 hours
- 1st part : 10 hours...credit hours
- 2nd part : 30 hours.....credit hours
- Thesis: 6 hours

ج: مستويات و مقررات البرنامج:

c- Compulsory:

البند	المقررات	الكود	الساعات المعتمدة
متطلبات	للجامعة والكلية		46 ساعات
الجزء الأول	يشمل الاتي:		46 ساعات

1 ساعة	CCM 601	مقرر علمى فى الفارماكولوجى	
1 ساعة	CCM 602	مقرر علمى فى الميكروبيولوجيا	
1 ساعة	CCM 603	مقرر علمى فى الباثولوجيا	
1 ساعة	CCM 604	مقرر علمى فى الكيمياء الحيوية	
1 ساعة	CCM 605	مقرر علمى فى الفسيولوجيا	
2 ساعة	CCM 606	مقرر علمى فى طب الامراض الباطنية	
3 ساعة	CCM 607	مقرر علمى فى اساسيات طب الحالات الحرجة	
30 ساعة	CCM 608	مقرر علمى نظرى و اكلينيكى فى طب الحالات الحرجة	الجزء الثانى
6 ساعات			رسالة الماجستير
46 ساعة			الاجمالى

تم اعتماد إجراءات تصحيحية لللائحة في مجلس قسم: 2019/1/9

First part (15 weeks duration/6 months)

a- Compulsory courses:

Course Title	Course code	Number s of hours per week		Total teaching hours/one semester
		Lectures	practical	
Pharmacology	CCM601	1	-	15
Microbiology	CCM602	1	-	15
Phathology	CCM603	1	-	15

Biochemistry	CCM604	1	-	15
Physiology	CCM605	1		15
Internal medicine	CCM606	1	1	30
Basic of critical care	CCM601	3		45
Total		9		150

b- Elective courses: none

c- Selective courses: none

Second part (48 weeks duration/12 months)

a- Compulsory courses:

Course Title	Course Code	NO. of hours per week		Total teaching hours /semester
		Theoretical	practical	
Critical care medicine	CCM608	22.5	15	1687

b- Elective courses: none

c- Selective courses: none

6- محتويات المقررات (راجع توصيف المقررات) ملحق (6)

• الجزء الأول: مواد اجباريه

الكود	اسم المقرر
CCM601	مقرر علمى فى الفارماكولوجيا
CCM602	مقرر علمى فى الميكروبيولوجيا
CCM603	مقرر علمى فى الباثولوجيا
CCM604	مقرر علمى فى الكيمياء الحيويه
CCM605	مقرر علمى فى الفسيولوجيا
CCM606	مقرر علمى فى طب الأمراض الباطنية
CCM607	مقرر علمى فى أساسيات طب الحالات الحرجه

• الجزء الثانى:

اسم المقرر: مقرر علمى نظرى واكاديمي فى طب الحالات الحرجه , كوده CCM608
المحتويات: (طبقاً لما هو مذكور في اللائحة)

7- متطلبات الإلتحاق بالبرنامج :

7-Program admission requirements:

مادة (17) : يشترط فى قيد الطالب لدرجة الماجستير

أ - أن يكون حاصلًا على درجة البكالوريوس فى الطب والجراحة من إحدى جامعات جمهورية مصر العربية أو على درجة معادلة لها من معهد علمى معترف به ومعتمدة من المجلس الأعلى للجامعات، بحد أدنى تقدير جيد للتسجيل للماجستير و تقدير مقبول للتسجيل لدرجة للدبلوم.

- يسمح للحاصل على الدبلوم العالى وفقا لنظام هذه اللائحة وبتقدير جيد على الأقل، بتسجيل رسالة لاستكمال درجة الماجستير بشرط ألا يكون قد مر أكثر من ثلاث سنوات على تاريخ حصوله على درجة الدبلوم من كلية الطب- جامعة بنها- وبغض النظر عن تقديره فى درجة البكالوريوس وبعد موافقة مجلس القسم ومجلس الكلية.

- يسمح لطالب الماجستير بعد نجاحه فى الجزء الاول والثانى ولم يستكمل الرسالة خلال مدة القيد المحددة باللائحة ان يتقدم بطلب استكفاء والحصول على شهاده دبلوم التخصص , ويحق له التقدم لاستكمال درجه الماجستير مره اخرى خلال ثلاث سنوات من نجاحه فى الجزء الثانى.

ب - أن يكون قد أمضى السنة التدريبية أو ما يعادلها (سنة الامتياز).

ج - موافقة جهة العمل أو مايفيد انه طبيب حر

د - أن يتفرغ للدراسة لمدة سنة على الأقل فى الجزء الثانى (فصلين دراسيين).

هـ - تسديد الرسوم ومصاريف التدريب واستهلاك الأجهزة

مادة (19) : مواعيد القيد وبدأ الدراسة :

أ - يكون التقدم للقيد بالماجستير مرة واحدة فى السنة خلال شهرى يوليو وأغسطس من كل عام . وتبدأ الدراسة لدرجة الدبلوم العالى / الماجستير فى شهر أكتوبر من كل عام.

8- القواعد المنظمة لإستكمال البرنامج :

8- Regulations for progression and program completion:

مادة (29) : يشترط فى الطالب لنيل درجة الماجستير فى أحد الفروع الإكلينيكية أو العلوم الطبية الأساسية:

أ- حضور متطلبات المقررات الدراسية والتدريبات الإكلينيكية والعملية والمعملية والميدانية بصفة مرضية طبقا للساعات المعتمدة على ألا تقل نسبة الحضور عن 75%، وفي حالة عدم استيفاء النسبة المذكورة يحرم الطالب من دخول الامتحان وإذا تكرر عدم الاستيفاء يلغى تسجيل الطالب.

ب- العمل كطبيب مقيم أصلى او منتدب (زائر) فى التخصص بالنسبة للعلوم الإكلينيكية.

ج - يشترط للطبيب الزائر العمل لمدة سنة على الأقل فى قسم التخصص بالكلية بالنسبة للعلوم الإكلينيكية.

د- النجاح فى امتحان الجزئين الأول والثانى من الدرجة.

هـ- اجتياز الطالب الدورات الآتية :

♦ الحاسب الآلى (دورة فى مقدمة الحاسب - دورة فى تطبيقات الحاسب الآلى) .

♦ (أخلاقيات البحث العلمي- منهجية البحث العلمي – الإحصاء الطبي) وذلك مع تسجيل بروتوكول الرسالة على

أن تكون هذه الدورات من داخل جامعة بنها .

ط - اجتياز اختبار التوظيف بمستوى لا يقل عن 400 وحدة للماجستير وذلك قبل مناقشة الرسالة من أحد الجهات

المعتمدة وفقا لمتطلبات الجامعة

و- إعداد بحث في موضوع تقره الجامعة بعد موافقة مجلس القسم ومجلس الكلية ينتهى بإعداد رسالة تقبلها لجنة التحكيم مع نشر بحث مشتق من الرسالة في مجلة علمية معترف بها وذات موقع الكتروني ومسجلة بقائمة مجلات النشر بالكلية .

9- وسائل تقييم مخرجات التعلم المستهدفة من البرنامج :

9- Students Assessment methods:

م	الوسيلة	مخرجات التعلم المستهدفة
	Written examination	To assess knowledge & understanding intellectual skills. From 2.a.1 to 2.a.10 And from 2.b.1.to 2.b.12
	Oral examination	To assess knowledge and understanding, intellectual skills, General & transferable skills From 2.a.1 to 2.a.10 From 2.b.1 to 2.b.12 From 2.d.1 to 2.d.11
	Clinical examination	To assess knowledge and understanding & intellectual skills, practical and clinical skills and transferable skills. From 2.a.1 to 2.a.10 From 2.b.1 to 2.b.12 From 2.c.1 to 2.c. 10 and 2.a.1 to 2.a.10 From 2.d.1 to 2.d.11

Final exam.

First part

إجمالي	الدرجة		الاختبار	المقرر
	إكلينيكي	شفهي		
50		25	25	مقرر علمي في الفارماكولوجيا
			اختبار تحريري مدته ساعتان + اختبار شفهي	
50		25	25	مقرر علمي في الميكروبيولوجيا
			اختبار تحريري مدته ساعة ونصف + اختبار شفهي	
50		25	25	مقرر علمي في الباثولوجيا
			اختبار تحريري مدته ساعة ونصف + اختبار شفهي	
50		25	25	مقرر علمي في الكيمياء الحيوية
			اختبار تحريري مدته ساعة ونصف + اختبار شفهي	
50		25	25	مقرر علم خاص في فسيولوجيا
			اختبار تحريري مدته ساعة ونصف + اختبار شفهي	
100	25	25	25	مقرر علمي في طب الأمراض الباطنية
			اختبار تحريري مدته 3 ساعات + اختبار شفهي + اختبار اكلينيكي	
150		50	100	مقرر علمي في أساسيات طب الحالات الحرجة
			اختبار تحريري مدته 3 ساعات + اختبار شفهي	

Second part

إجمالي	الدرجة			الاختبار	المقرر
	إكلينيكي	شفهي	تحريري		
1500	375	375	375+375	اختباران تحريريان مدة كل منهما ثلاث ساعات + اختبار شفهي + اختبار إكلينيكي	مقرر علمي نظري واكاديمي في طب الحالات الحرجة

10- طرق تقويم البرنامج :

10- Evaluation of Program:

Evaluator	Tools	Signature
Internal evaluator (s) مقيم داخلي	Focus group discussion Meetings	<u>Dr/Ahmed Goda ElGazar</u>
External Evaluator (s) مقيم خارجي	Reviewing according to external evaluator checklist report.	<u>Dr/Ahmed ElSherif....</u>
Senior student (s) طلاب السنة النهائية	none	
Alumni الخريجون	questionary	<u>لا يقل عن 50% من طلبة اخر 3 دفعات</u>
Stakeholder (s) أصحاب العمل	meetings	<u>معدة ممثلة لجميع جماعات العمل</u>
Others طرق أخرى	none	

التاريخ: 2020/1/9.

المسئول عن البرنامج: أ.د/احمد مصطفى .

توصيف المقررات

Program courses

First part
1- مقرر علمى فى الفارماكولوجيا
2- مقرر علمى فى الميكروبيولوجيا
3- مقرر علمى فى الباثولوجيا
4 - مقرر علمى فى الكيمياء الحيوية
5- مقرر علم خاص ف فسيولوجيا
6- مقرر علمى فى طب الأمراض الباطنية
7- مقرر علمى فى أساسيات طب الحالات الحرجه
Second part
مقرر علمى نظرى واكلىنيكى فى طب الحالات الحرجه

الملحقات :

ملحق 1: المعايير القياسية العامة للدراسات العليا الصادرة عن الهيئة.

ملحق 2: Academic standards of the program

ملحق 3: مصفوفة المعايير الأكاديمية للبرنامج مع المعايير القياسية للدراسات العليا الصادرة عن الهيئة.

ملحق 4: مصفوفة نواتج تعلم البرنامج مع المعايير الأكاديمية للبرنامج.

ملحق 5: مصفوفة المقررات مع البرنامج Program-Courses ILOs Matrix

ملحق 6: توصيف المقررات

ملحق 1 Academic standards of the program

وثيقة المعايير الأكاديمية المرجعية لبرنامج الماجستير

Academic Reference Standards (ARS) for Master Degree in critical care medicine

1- Graduate Attributes:

1.1 Provide basic scientific knowledge essential to do assessment for patients, therapeutic and diagnostic procedures for intensive care.

1.2 Provide safe monitoring and restoration of homeostasis during ICU period, as well as hemostasis in the critically ill injured, or otherwise seriously ill patient.

1.3 Perform clinical management and teaching of cardiac and pulmonary resuscitation.

1.4 Apply the basics and fundamentals of scientific research effectively and using its different tools to cover basic and advanced in the intensive care medicine.

1.5 Apply the Analytical approach in the field of the intensive care medicine.

1.6 Apply recent scientific knowledge essential for the mastery of practice of the intensive care according to the international standards and its integration with the related sciences including (pathology, physiology, pharmacology, biochemistry, microbiology and internal medicine) in the professional practice

1.7 Show awareness of the ongoing problems and the modern visions in the field of the intensive care medicine.

1.8 Use different methods of statistical analysis techniques and how to use it in field of the intensive care medicine.

1.9 Identify intensive care problems and find out solutions.

1.10 Perform an appropriate scale of the intensive care skills necessary for management of patients effectively, and use the appropriate technological means to serve the professional practice.

Use the skills available for achieving the best value

1.11 Communicate with other colleagues effectively and to be able to lead a team work.

1.12 Take professional decisions in different intensive care problems.

1.13 Use the available resources in the best way in order to achieve the highest benefit and to preserve these resources.

1.14 Show awareness of his role in community development and environmental conservation in the light of the global and regional variables.

1.15 Behave in a manner reflecting the commitment to integrity and credibility of the profession and the commitment to the rules of this sensitive specialty.

1.16 Develop him academically and professionally with maintenance of learning abilities necessary for continuous medical education.

2. Academic Standards:

2.1 Knowledge and understanding:

By the end of Master program , the graduate should recognize and understand the followings:

2.1.1. The principles of the basic pathology, physiology, pharmacology, biochemistry, microbiology and internal medicine, theories of the intensive care medicine and clinical skills necessary for resuscitation and life support as practiced in critical care facilities

2.1.2. The scientific advances in the field of the intensive care medicine and related fields.

2.1.3. The principles and fundamentals of ethics and legal aspects of professional practice in the field of the intensive care medicine based upon social, psychological, medical and surgical understanding.

2.1.4. Basic and recent advanced of the technical procedures commonly employed in critical care practice including (airway management, cardiovascular resuscitation, patient monitoring and life support, regional anesthetic and analgesic techniques and post operative care.

2.1.5. The principles, fundamentals and applications of quality of professional practice in the field of the intensive care medicine.

2.1.6. The principles and hypothesis of intensive care problems with surveillance and screening of all related topics

2.1.7. Basics and ethics of scientific research in the field of the intensive care medicine.

2.1.8. The principles that govern ethical decision making in clinical practice, the scope and the impact of human rights law on persons and groups as well as the medico-legal malpractice and common medical error.

2.1.9. Methods of promoting health intensive care based on pathology, physiology, pharmacology, biochemistry, microbiology and medical knowledge.

2.1.10. The impact of the intensive care problems on quality of life, regarding health, social, psychological and financial conditions, fitness to work and personal relationships.

2.2 Intellectual skills:

By the end of Master program, graduate should be able to recognize the followings:

2.2.1 The pathology, physiology, pharmacology, biochemistry, microbiology and medical information to solve the intensive care problems

2.2.2 The intensive care problems that do not conform to classic data (incomplete data) with guidance of pathology, physiology, pharmacology, biochemistry, microbiology and medical information.

2.2.3. How to assess patient data with relevance to his capabilities in the proper time or to transfer the patient to equipped center to deal with the anticipated problems.

2.2.4. The information of clinical and investigational database to be proficient in clinical problem solving.

2.2.5. How to integrate different pathology, physiology, pharmacology, biochemistry, microbiology and medical information to solve the intensive care problems.

2.2.6. How to conduct a scientific research &/Or write scientific thesis in a systematic approach about the intensive care problem.

2.2.7. How to combine all sources of information in addition to the patient interview to interpret and evaluate the medical history. Such sources include family or friends, medical records and other health care professionals, to overcome limitations regarding information.

2.2.8. How to evaluate risks imposed during professional intensive care practice including internal medical problems and intensive care procedures.

2.2.9. How to Plan to improve performance in the field of the intensive care based on pathology, physiology, pharmacology, biochemistry, microbiology and medical background.

2.2.10. How to make professional decisions in different intensive situations with guidance of pathology, physiology, pharmacology, biochemistry, microbiology and medical information.

2.2.11. How to manage Scientific discussion based on scientific evidences and proofs about intensive care topics.

2.2.12. How to Criticize researches related to intensive care medicine.

2.3 Practical/Professional skills

By the end of Master program, graduate should accept the followings skills:

2.3.1. Performing effeciently pathology, physiology, pharmacology, biochemistry, microbiology, medical and advanced professional procedural skills necessary in the field of the intensive care medicine.

2.3. 2. Writing and evaluating pathology, physiology, pharmacology, biochemistry, microbiology and medical reports about different intensive care problems.

2.3.3. Evaluation methods and tools existing in the area of intensive care.

2.3.4. Utilizing the basic skills as inspection, palpation, percussion and auscultation in detecting the general and local physical abnormalities for daily assessment.

2.3.5. Performing and interpreting all clinical assessment to recognize normal and abnormal findings.

2.3.6. Choosing effective modes of communication(listening, nonverbal, explanatory, questioning) and mechanisms of communication(face to face, telephone, e-mail, written), as appropriate.

2.3.7. Applying sterile, safe techniques and infection control guidelines according to International principles in pathology, physiology, pharmacology, biochemistry, microbiology and medical procedures in the intensive care practice.

2.3.8. Collecting information systematically, using questions that are appropriately focused toward assessment of the intensive care problems.

2.3.9. Using skills in educating colleagues and other healthcare professionals.

2.4 Communication and transferable skills.

By the end of Master program, graduate should accept the following skills.

2.4.1 Communication with professors and colleagues effectively using different methods.

2.4.2 Using information technology to improve his/her the intensive care practice.

2.4.3 Practice self-appraisal and determines his learning needs in the intensive care practice.

2.4.4 Using different sources of information to obtain data in the intensive care practice.

2.4.5 Sharing in determination of standards for evaluation of others in the intensive care practice.

2.4.6 Working in a team and work as team leader in situations comparable to his work level in the intensive care practice.

2.4.7 Managing time effectively in managing the intensive care situations.

2.4.8 Learning independently and seek continuous learning related to the intensive care medicine.

2.4.9 Demonstrating respect to all patients irrespective of their socio-cultural or religious status in the intensive care practice.

2.4.10 Conducting patient interview with patience, attentive listening and respect in the intensive care practice.

2.4.11. Applying the principles of statistical methods for collection, presentation and analysis of all type of data.

اعتماد مجلس القسم رقم (.....285.....) , بتاريخ.2020/1/9

رئيس مجلس القسم

أ.د/احمد مصطفى

اعتماد مجلس الكلية

ملحق 2 : المعايير القياسية العامة لبرامج قطاع الدراسات العليا

برنامج الماجستير

1- موصفات الخريج

خريج برنامج الماجستير فى أى تخصص يجب أن يكون قادرا على :

- 1-1 إجابة تطبيق أساسيات ومنهجيات البحث العلمى واستخدام أدواته المختلفة
- 2-1 تطبيق المنهج التحليلى واستخدامه فى مجال التخصص
- 3-1 تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة فى ماسته المهنية
- 4-1 إظهار وعيا بالمشاكل الجارية والرؤى الحديثة فى مجال التخصص
- 5-1 تحديد المشكلات المهنية وإيجاد حلول لها
- 6-1 إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية
- 7-1 التوصل بفاعلية والقدرة على قيادة فرق العمل
- 8-1 اتخاذ القرار فى سياقات مهنية مختلفة
- 9-1 توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها
- 10-1 إظهار الوعى بدوره فى تنمية المجتمع والحفاظ على البيئة فى ضوء المتغيرات العالمية والاقليمية
- 11-1 التصرف بما يعكس الالتزام بالنزهة والمصداقية والالتزام بقواعد المهنة

12-1 تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر

2- - المعايير القياسية العامة

1-2 المعرفة والفهم :

- بانتهاج دراسة برنامج الماجستير يجب ان يكون الخريج على فهم ودراية بكل من :
- 1-1-2 النظريات والاساسيات المتعلقة بمجال التعلم وكذا فى المجالات ذات العلاقة
 - 2-1-2- التاثير المتبادل بين الممارسة المهنية وانعكاسها على البيئة
 - 3-1-2 التطورات العلمية فى مجال التخصص
 - 4-1-2 المبادئ الاخلاقية والقانونية للممارسة المهنية فى مجال التخصص
 - 5-1-2 مبادئ واساسيات الجودة فى الممارسة المهنية فى مجال التخصص
 - 6-1-2 اساسيات واخلاقيات البحث العلمى

2-2 المهارات الذهنية :

- بانتهاج دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
- 1-2-2 تحليل وتقييم المعلومات فى مجال التخصص والقياس عليها لحل المشاكل
 - 2-2-2 حل المشاكل المتخصصة مع عدم توافر بعض المعطيات
 - 3-2-2 الربط بين المعارف المختلفة لحل المشاكل المهنية
 - 4-2-2 اجراء دراسة بحثية او كتابة دراسة علمية منهجية حول مشكلة بحثية
 - 5-2-2 تقييم المخاطر فى الممارسات المهنية فى مجال التخصص
 - 6-2-2 التخطيط لتطوير الاداء فى مجال التخصص
 - 7-2-2 اتخاذ القرارات المهنية فى سياقات مهنية متنوعة

3-2 المهارات المهنية

- بانتهاج دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
- 1-3-2 اتقان المهارات المهنية الاساسية والحديثة فى مجال التخصص
 - 2-3-2 كتابة وتقييم التقارير المهنية
 - 3-3-2 تقييم الطرق والادوات القائمة فى مجال التخصص

4-2 المهارات العامة والمنتقلة

بانتهاؤ دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :

1-4-2 التواصل الفعال بأنواعه المختلفة

2-4-2 استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية

3-4-2 التقييم الذاتى وتحديد احتياجاته التعليمية

4-4-2 استخدام المصادر المختلفة لحصول على المعلومات والمعارف

5-4-2 وضع قواعد ومؤشرات تقييم اداء الاخرين

6-4-2 العمل فى فريق سياقات كهنية مختلفة

7-4-2 ادارة الوقت بكفاءة

8-4-2 التعلم الذاتى والمستمر

ملحق 3: مصفوفة مضاهاة المعايير الاكاديمية للبرنامج مع المعايير القياسية للدراسات العليا
الصادرة عن الهيئة

- مواصفات الخريج:

مواصفات الخريج بالمعايير الأكاديمية للبرنامج	مواصفات الخريج بالمعايير القياسية للدراسات العليا (درجة الماجستير)
1.1 Provide basic scientific knowledge essential to do assessment for preparation of patients, therapeutic and diagnostic procedures for intensive care practice.	1-1 إجابة تطبيق أساسيات ومنهجيات البحث العلمى واستخدام أدواته المختلفة
1.5 Apply the Analytical approach in the field of the intensive care.	1-2 تطبيق المنهج التحليلى واستخدامه فى مجال التخصص
1.6 Apply recent scientific knowledge essential for the mastery of practice of in the intensive care according to the international standards and its integration with the related sciences including (pathology, physiology, pharmacology, biochemistry, microbiology,	1-3 تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة فى ماسته المهنية

and internal medicine) in the professional practice	
1.7 Show awareness of the ongoing problems and the modern visions in the field of the intensive care practice.	4-1 إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص
1.3 Perform clinical management and teaching of cardiac and pulmonary resuscitation. 1.9 Identify the intensive care problems and find out solutions.	5-1 تحديد المشكلات المهنية وإيجاد حلول لها
1.4 Apply the basics and fundamentals of scientific research effectively and using its different tools to cover basic and advanced in the intensive care	6-1 إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية
1.11 Communicate with other colleagues effectively and to be able to lead a team work.	7-1 التوصل بفاعلية والقدرة على قيادة فرق العمل
1.2 Provide safe monitoring and restoration of homeostasis during ICU period, as well as homeostasis in the critically ill injured, or otherwise seriously ill patient	8-1 اتخاذ القرار في سياقات مهنية مختلفة
1.10 Perform an appropriate scale of the intensive care skills necessary for management of patients effectively, and use the appropriate technological means to serve the professional practice. Use the skills available for achieving the best value	9-1 توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها

<p>1.13 Use the available resources in the best way in order to achieve the highest benefit and to preserve these resources.</p>	
<p>1.14 Show awareness of his role in community development and environmental conservation in the light of the global and regional variables.</p>	<p>10-1 إظهار الوعي بدوره فى تنمية المجتمع والحفاظ على البيئة فى ضوء المتغيرات العالمية والاقليمية</p>
<p>1.15 Behave in a manner reflecting the commitment to integrity and credibility of the profession and the commitment to the rules of this sensitive specialty.</p>	<p>11-1 التصرف بما يعكس الالتزام بالنزهة والمصداقية والالتزام بقواعد المهنة</p>
<p>1.16 Develop him academically and professionally with maintenance of learning abilities necessary for continuous medical education.</p>	<p>12-1 تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر</p>

أ - المعرفة والفهم:

<p>المعايير الأكاديمية للبرنامج</p>	<p>المعايير القياسية العامة (Generic) للدراسات العليا (درجة الماجستير)</p>
<p><i>By the end of Master program, the candidate should recognize and understand the followings:</i></p>	<p>بأنتهاء دراسة برنامج الماجستير يجب ان يكون الخريج على فهم ودراية بكل من :</p>
<p>2.1.1. The principles of the basic pathology, physiology, pharmacology, biochemistry, microbiology and medical facts, theories of the intensive care medicine as they apply to patients</p>	<p>1-1-2 النظريات والاساسيات المتعلقة بمجال التعلم وكذا فى المجالات ذات العلاقة</p>

support during ICU stay and clinical skills necessary for resuscitation and life support as practiced in critical care facilities	
2.1.6.The principles and hypothesis of the intensive care problems with surveillance and screening of all related topics	2-1-2- التآثير المتبادل بين الممارسة المهنية وانعكاسها على البيئة
2.1.2. The scientific advances in the field of the intensive care and related fields.	3-1-2 التطورات العلمية فى مجال التخصص
2.1.3. The principles and fundamentals of ethics and legal aspects of professional practice in the field of the intensive care based upon social, psychological, medical and surgical understanding.	4-1-2 المبادئ الاخلاقية والقانونية للممارسة المهنية فى مجال التخصص
2.1.5. The principles , fundamentals and applications of quality of professional practice in the field of the intensive care.	5-1-2 مبادئ واساسيات الجودة فى الممارسة المهنية فى مجال التخصص
2.1.6.The principles and hypothesis of intensive care problems with surveillance and screening of all related topics	6-1-2 اساسيات واخلاقيات البحث العلمى

ب - القدرات الذهنية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) للدراسات العليا (درجة الماجستير)
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<p><i>By the end of Master program, candidate should be able to recognize the followings:</i></p>	<p>بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :</p>
<p>2.2.4. The information of clinical and investigational database to be proficient in clinical problem solving.</p>	<p>1-2-2 تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل</p>
<p>2.2.10. How to make professional decisions in different intensive situations with guidance of physiological, Pharmacological, pathological, microbiological, biochemistry and medical information.</p>	<p>2-2-2 حل المشاكل المتخصصة مع عدم توافر بعض المعطيات</p>
<p>2.2.5. How to integrate different physiological, Pharmacological, pathological, microbiological, biochemistry and medical information to solve intensive care problems.</p>	<p>3-2-2 الربط بين المعارف المختلفة لحل المشاكل المهنية</p>
<p>2.2.2 The intensive care problems that do not conform to classic data (incomplete data) with guidance of physiological, Pharmacological, pathological, microbiological, biochemistry and medical information.</p> <p>2.2.3. How to asses patient data with relevance to his capabilities in the proper time or to transfer the patient to equipped center to deal with the anticipated problems</p>	<p>4-2-2 اجراء دراسة بحثية او كتابة دراسة علمية منهجية حول مشكلة بحثية</p>
<p>2.2.8. How to evaluate risks imposed during professional \intensive care practice including internal medical problems and critical care procedures.</p>	<p>5-2-2 تقييم المخاطر في الممارسات المهنية في مجال التخصص</p>

<p>2.2.9. How to Plan to improve performance in the field of the intensive care based on physiological, Pharmacological, pathological, microbiological, biochemistry and medical background.</p>	<p>6-2-2 التخطيط لتطوير الاداء فى مجال التخصص</p>
<p>2.2.10. How to make professional decisions in different intensive situations with guidance of physiological, Pharmacological, pathological, microbiological, biochemistry and medical information.</p>	<p>7-2-2 اتخاذ القرارات المهنية فى سياقات مهنية متنوعة</p>

ج. مهارات مهنية وعملية :

<p>المعايير الأكاديمية للبرنامج</p>	<p>المعايير القياسية العامة (Generic) للدراسات العليا (درجة الماجستير)</p>
<p><i>By the end of Master program, candidate should acquire the following skills:</i></p>	<p>بإنتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :</p>
<p>2.3.4. Utilizing the basic skills as inspection, palpation, percussion and auscultation in detecting the general and local physical abnormalities for daily assessment and clinical practice.</p>	<p>1-3-2 إتقان المهارات المهنية الاساسية والحديثة فى مجال التخصص</p>
<p>2.3. 2. Writing and evaluating physiological, Pharmacological, pathological, microbiological, biochemistry and medical reports about different intensive care problems.</p>	<p>2-3-2 كتابة وتقييم التقارير المهنية</p>

2.3.3. Evaluation methods and tools existing in the area of intensive care.	2-3-3 تقييم الطرق والادوات القائمة فى مجال التخصص

د . مهارات عامة و منتقلة :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لدراسات العليا (درجة الماجستير)
By the end of Master program, candidate s accept the following skills:	بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
2.4.1 Communication with professors and colleagues effectively using different methods.	2-4-1 التواصل الفعال بأنواعه المختلفة
2.4.2 Using information technology to improve his/her the intensive care practice.	2-4-2 استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية
2.4.3 Practice self-appraisal and determines his learning needs in the intensive care practice.	2-4-3 التقييم الذاتى وتحديد احتياجاته التعليمية
2.4.4 Using different sources of information to obtain data in the intensive care practice.	2-4-4 استخدام المصادر المختلفة لحصول على المعلومات والمعارف
2.4.5 Sharing in determination of standards for evaluation of others in the intensive care practice	2-4-5 وضع قواعد ومؤشرات تقييم اداء الاخرين
2.4.6 Working in a team and work as team leader in situations comparable to his work level in the intensive care practice.	2-4-6 العمل فى فريق سياقات كهنية مختلفة

2.4.7 Managing time effectively in managing the intensive care situations.	7-4-2 ادارة الوقت بكفاءة
2.4.8 Learning independently and seek continuous learning related to the intensive care.	8-4-2 التعلم الذاتى والمستمر

ملحق 4: مصفوفة مضاهاة نواتج تعلم البرنامج مع المعايير الأكاديمية للبرنامج

نواتج تعلم البرنامج										المعايير الأكاديمية للبرنامج <i>By the end of Diploma program, the candidate should recognize and understand the followings:</i>									
المعرفة و الفهم																			
									2.a.10										
									2.a.9										
									2.a.8										
									2.a.7										
									2.a.6										
									2.a.5										
									2.a.4										
									2.a.3										
									2.a.2										
									2.a.1										
																		2.1.1	
																			+
																			2.1.2
																			+
																			2.1.3
																			+

مهارات ذهنية Intellectual Skills												ILOs	
2.B.12	2.B.11	2.B.10	2.B.9	2.B.8	2.b.7	2.b.6	2.b.5	2.b.4	2.b.3	2.b.2	2.b.1	Courses & codes	
												CCM601	pharmacology
												CCM602	microbiology
												CCM603	Pathology
												CCM604	biochemistry
												CCM605	physiology
												CCM606	Internal medicine
												CCM607	Critical care medicine

المعارف Knowledge & Understanding										ILOs	
a.10	a.9.	2.a.8	2.a.7	2.a.6	2.a.5	2.a.4	2.a.3	2.a.2	2.a.1	Courses & codes	
										CCM601	Pharmacology
										CCM602	Microbiology
										CCM603	Pathology
										CCM604	Biochemistry
										CCM605	Physiology
										CCM606	Internal medicine
										CCM607	Critical care medicine

مهارات عملية و مهنية Practical & Clinical Skills										ILOs	
2.c.1	2.C.9	2.C.8	2.c.7.	2.c.6	2.c.5	2.c.4	2.c.3	2.c.2	2.c.1	Courses & codes	

											CCM606	Internal Medicine
											CCM607	Critical care medicine

مهارات عامة General and transferable											ILOs	
2.d.11	2.d.10	2.d.9	2.d.8	2.d.7	2.d.6	2.d.5	2.d.4	2.d.3	2.d.2	2.d.1	Courses & codes	
											CCM601	pharmacology
											CCM602	Microbiology
											CCM603	Pathology
											CCM604	Biochemistry
											CCM605	Physiology
											CCM606	Internal medicine
											CCM607	Critical care medicine

ملحق 6 توصيف المقررات

نموذج رقم (12)

جامعة / أكاديمية : بنها.....

كلية / معهد : .الطب.....

قسم : طب ورعايه الحالات الحرجه.....

توصيف مقرر دراسي

1- بيانات المقرر		
الفرقة / المستوى : ماجستير جزء أول	اسم المقرر : Pharmacology	الرمز الكودي: CCM601
عدد الوحدات الدراسية : نظري <input type="text" value="1"/> عملي <input type="text"/>		التخصص : طب ورعاية الحالات الحرجه

<ul style="list-style-type: none">To provide the advanced knowledge about commonly used groups of drugs affecting different body systems and their implications in therapy of diseases and health promotion.	2- هدف المقرر :
3- المستهدف من تدريس المقرر :	

<p>2.a.1- Discuss the pharmacokinetic, pharmacodynamics and pharmacotherapeutic Properties of different groups of drugs affecting body systems.</p> <p>2.a.2- Discuss the adverse and toxic effects, and their management of commonly Used groups interactions.</p> <p>2.a.3- Define clinically relevant age, sex and genetic related variations that affect response to drugs.</p> <p>2.a.4- Discuss the pathophysiology of diseases and explain the rational basis for the use of drugs.</p>	<p>أ- المعلومات والمفاهيم :</p>
<p>2.b.1- Design rational therapeutic strategies for both acute and chronic conditions that take into account the various variables that influence these strategies.</p> <p>2.b.2-Choose the proper drug(s) for the proper clinical situation in proper dosage.</p>	<p>ب- المهارات الذهنية:</p>
<p>2.c.1- Obtain and record a comprehensive drug history of the patient.</p> <p>2.c.2- Document drug adverse reactions.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر :</p>
<p>2.d.1- Demonstrate respect to all patients irrespective of their socioeconomic levels, culture or religious beliefs and use language appropriate to the patient's culture.</p> <p>2.d.2- Provide appropriate basic drug education to the patient and his family.</p>	<p>د - المهارات العامة :</p>

1-General pharmacology

- Basic principles of pharmacokinetics.
- Drug interactions.

2-Autonomic nervous system

- Sympathomimetics
- Sympatholytics
- Parasympathomimetics
- Parasympatholytics
- Skeletal muscle relaxants.
- Ganglion stimulants and ganglion blockers.

3- Autachoids

- Histamine & antihistaminic drugs

4-Cardiovascular pharmacology

- Drug therapy of heart failure.
- Antiarrhythmic drugs.
- Treatment of hypertension.
- Drug therapy of ischemic heart diseases.

5-Pharmacology of blood

- Anticoagulants
- Antithrombotic drugs
- Antiplatelets
- Drug treatment of hemorrhage.
- Drug therapy of shock

6-Pharmacology of respiration

- Analeptics and respiratory stimulants
- Respiratory gases.
- Treatment of bronchial asthma.
- Cough therapy.
- Antiviral druges used in covid 19
- Role of steroid and immunosuppresent in covid
- Tocilisumab and sariliumab in covid 19

7-Endocrine pharmacology

- Treatment of acute complications of diabetes mellitus (hypoglycemic, non ketotic hyperglycemic coma, ketoacidosis and lactic acidosis).
- Corticosteroids.
- Drug therapy of disorders of calcium homeostasis.

8-CNS pharmacology

- Sedatives & hypnotics
- Antidepressants
- Antipsychotics.
- Analgesics.
- Anticonvulsants.
- Local anesthetics.

- General anesthetics

<p>lectures, seminars, tutorial التعليم باستخدام تكنولوجيا المعلومات E-Learning</p>	<p>5- أساليب التعليم والتعلم</p>						
<p>التعليم باستخدام تكنولوجيا المعلومات E-Learning</p>	<p>6- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة</p>						
<p>7- تقويم الطلاب :</p>							
<p>A) Attendance Criteria:</p> <ol style="list-style-type: none"> 1. Practical attendance. 2. Log book. <p>B) Assessment Tools:</p> <table border="1" data-bbox="363 1220 1011 1701"> <thead> <tr> <th data-bbox="363 1220 626 1276">Tool</th> <th data-bbox="626 1220 1011 1276">Purpose (ILOS)</th> </tr> </thead> <tbody> <tr> <td data-bbox="363 1276 626 1493">Written examination</td> <td data-bbox="626 1276 1011 1493">To assess knowledge acquisition, including MCQs and problem solving.</td> </tr> <tr> <td data-bbox="363 1493 626 1701">Oral examination</td> <td data-bbox="626 1493 1011 1701">To assess understanding and stability of knowledge given, attitude and presentation.</td> </tr> </tbody> </table>	Tool	Purpose (ILOS)	Written examination	To assess knowledge acquisition, including MCQs and problem solving.	Oral examination	To assess understanding and stability of knowledge given, attitude and presentation.	<p>أ- الأساليب المستخدمة</p>
Tool	Purpose (ILOS)						
Written examination	To assess knowledge acquisition, including MCQs and problem solving.						
Oral examination	To assess understanding and stability of knowledge given, attitude and presentation.						

<p><u>TIME SCHEDULE:</u></p> <table border="1" data-bbox="363 317 1010 533"> <thead> <tr> <th data-bbox="363 317 597 373">Exam</th> <th data-bbox="597 317 1010 373">Week</th> </tr> </thead> <tbody> <tr> <td data-bbox="363 373 597 533">1- First part exam</td> <td data-bbox="597 373 1010 533">After 6 months from registration for MSc. degree</td> </tr> </tbody> </table>	Exam	Week	1- First part exam	After 6 months from registration for MSc. degree	<p>ب- التوقيت</p>											
Exam	Week															
1- First part exam	After 6 months from registration for MSc. degree															
<p><u>Weighting System:</u></p> <table border="1" data-bbox="267 667 846 1100"> <thead> <tr> <th data-bbox="267 667 521 800">Examination</th> <th data-bbox="521 667 711 800">Marks allocated</th> <th data-bbox="711 667 846 800">% of Total Marks</th> </tr> </thead> <tbody> <tr> <td data-bbox="267 800 521 884">2- Final exam:</td> <td data-bbox="521 800 711 884"></td> <td data-bbox="711 800 846 884"></td> </tr> <tr> <td data-bbox="267 884 521 961">a- Written</td> <td data-bbox="521 884 711 961">25</td> <td data-bbox="711 884 846 961">50%</td> </tr> <tr> <td data-bbox="267 961 521 1052">b- Oral</td> <td data-bbox="521 961 711 1052">25</td> <td data-bbox="711 961 846 1052">50%</td> </tr> <tr> <td data-bbox="267 1052 521 1100">Total</td> <td data-bbox="521 1052 711 1100">50</td> <td data-bbox="711 1052 846 1100">100%</td> </tr> </tbody> </table> <p data-bbox="315 1100 802 1268">- Passing grades are: EXCELLENT >85%, VERY GOOD 75- <85%, GOOD 65- <75% and FAIR 60-<65%.</p>	Examination	Marks allocated	% of Total Marks	2- Final exam:			a- Written	25	50%	b- Oral	25	50%	Total	50	100%	<p>ج- توزيع الدرجات</p>
Examination	Marks allocated	% of Total Marks														
2- Final exam:																
a- Written	25	50%														
b- Oral	25	50%														
Total	50	100%														
<p>8- قائمة الكتب الدراسية والمراجع :</p>																
<p>Handouts updated administered by staff members Course Notes</p>	<p>أ- مذكرات</p>															

<p>Essential Books (Text Books):.</p> <p>David E. Golan; Armen H. Tashjian; Ehrin J. and Armstrong et al.: Principles of pharmacology: the pathophysiologic basis of drug [et al.], Philadelphia : Lippincott Williams & Wilkins</p>	<p>ب- كتب ملزمة</p>
<p>Recommended Books:</p> <p>GOODMAN AND GILMAN: THE PHARMACOLOGICAL BASIS OF THERAPEUTICS 11th edition.</p>	<p>ج- كتب مقترحة</p>
<p>web Sites: www.micromediex.co</p>	<p>د - دوريات علمية أو نشرات ... الخ</p>

رئيس مجلس القسم العلميأستاذ المادة :.اد/مهند محمد ابراهيم.....

:اد/اميحه

<p>2a.1. Illustrate general bacterial morphology, physiology and genetics.</p> <p>2.a.2. Identify the host parasite relationship and microbial pathogenesis.</p> <p>2.a.3. Explain the physiology of the immune system, its beneficial role, its interaction with tumors, its deficiency conditions, as well as its detrimental role in hypersensitivity, autoimmunity and transplant rejection</p> <p>2.a.4. Describe the morphology, culture, antigenic structure and virulence factors of microorganisms of medical importance</p> <p>2.a.5. Identify the most important skin and venereal infectious conditions and outline the diagnosis, treatment, prevention</p> <p>2.a.6. Describe the most important methods of and control of the most likely organisms causing such diseases decontamination, sterilization and principles of infection control.</p> <p>2.a.7. Describe the basics of antimicrobial chemotherapy and resistance.</p> <p>2.a.8. State the impact of molecular technology in microbiology and immunology.</p>	<p>أ- المعلومات والمفاهيم:</p>
<p>2.b.1 Interpret medically important bacteria based on microscopic examination of stained preparations.</p> <p>2.b.2. Interpret Gram stain and a Ziehl-Neelsen stain.</p> <p>2. b.3. Analyze culture media and biochemical tests commonly used for bacterial identification and distinguish positive and negative results.</p> <p>2.b.4. Analyze various sterilization processes and simple infection control measures</p>	<p>ب- المهارات الذهنية:</p>

Not needed	<p>ج - المهارات المهنية الخاصة بالمقرر :</p>
<p>2.d.1. Demonstrate Respect for patients' rights and involve them and /or their caretakers in management decisions. 2.d.2. Adopt an empathic and holistic approach to the patients and their problems. 2.d.3. Respect the role and the contributions of other health care professionals regardless their degrees or rank (top management, subordinate or colleague). 2.d.4. Conduct counseling sessions for prevention & control of different conditions for healthy individuals, for patients as well as their families.</p>	<p>د - المهارات العامة :</p>

<p>Introduction to Microbiology, Bacterial Cell Structure Disinfection and Sterilization</p>		<p>4- محتوی المقرر:</p>
<p>Host parasite relationship, Bacterial genetics (application of recombination and gene therapy) Antimicrobial chemotherapy</p>		
<p>Staphylococci , streptococci, and Neisseria, Pneumococci</p>		
<p>Corynebacteria, Bacillus Group & Clostridium</p>		
<p>Mycobacteria , Gram negative bacilli except <u>campylobacter, H.pylori</u>) & Gram negative small rods (all except Moraxella, and in Haemophilus only Haemophilus influenza)</p>		
<p>Spirochaetes , Mycoplasma , Rickettsia Chlamydia , Coxilla, Legionellae pneumophila & Listeria Corona virus</p>		
<p>Anaerobic gram negative bacilli Anaerobic gram negative cocci</p> <p>Applied Microbiology: <u>(meningitis, respiratory tract infection, urinary tract infection, Bacterial food poisoning, water borne diseases, milk borne diseases, Hospital acquired infections, diseases transmitted from the mother to the fetus).</u></p>		
<p>Cells of immune response. Natural & acquired immunity.</p>		

Immune response.		
Antigens, antibodies, complement, cytokines. Cell mediated immunity, MHC Apoptosis necrosis, Super antigen		
Hypersensitivity, Autoimmune diseases Immunodeficiency diseases, Tumor immunology Transplantation immunology		
General virology: Structure, Lab. Diagnosis (idea), Viral replication (idea), Antiviral chemotherapy, Antiviral immunity, Pathogenesis of viral diseases, viral vaccines		
Herpesviruses, Adenoviruses, <u>Picornaviruses</u> <u>Rabies Virus, Arboviruses, Coronaviruses</u>		
Orthomyxoviruses & Paramyxoviruses, human immunodeficiency virus (HIV), hepatitis Viruses		
Mycotoxins, Antifungal drugs		
Deep mycotic infections		
Total		

<p>1. Modified lectures and discussions 2. Practical</p> <p>E-Learning باستخدام تكنولوجيا المعلومات</p>	<p>5- أساليب التعليم والتعلم</p>								
<p>لا ينطبق</p>	<p>6- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة</p>								
<p>7- تقويم الطلاب :</p>									
<p><u>B Examinassions description:</u></p> <table border="1" data-bbox="147 997 1105 1732"> <thead> <tr> <th>Examination</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Final Examination</td> <td>Written</td> <td>1.5 hour written paper composed of Long & short essay-type questions and MCQs . To assess knowledge, understanding, intellectual skills</td> </tr> <tr> <td>Oral</td> <td>One oral examination station with 2 staff members (20-30 minutes) To assess knowledge, understanding, intellectual, general skills</td> </tr> </tbody> </table>	Examination	Type	Description	Final Examination	Written	1.5 hour written paper composed of Long & short essay-type questions and MCQs . To assess knowledge, understanding, intellectual skills	Oral	One oral examination station with 2 staff members (20-30 minutes) To assess knowledge, understanding, intellectual, general skills	<p>أ- الأساليب المستخدمة</p>
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<p><u>-C) TIME SCHEDULE:</u></p> <table border="1" data-bbox="147 1816 1242 1879"> <tr> <td>5- Final exam of first part</td> <td>15 Week15 weeks</td> </tr> </table>	5- Final exam of first part	15 Week15 weeks	<p>ب- التوقيت</p>						
5- Final exam of first part	15 Week15 weeks								

) Weighting System:

Examination	Marks allocated	% of Total Marks
- Final exam:		
a- Written	25	50%
b- Oral	25	50%
Total	50	100%

ج- توزيع الدرجات

8- قائمة الكتب الدراسية والمراجع :

-1 Lectures on Medical Virology: Department book	أ- مذكرات
1. Jawetz, Melnick and Adelberg's <i>Medical Microbiology</i> 2. <i>Mackie & McCartney Practical Medical Microbiology</i> . 3. Abul K. Abbas Cellular and molecular immunology. 4. Basic Immunology: Department book.	ب- كتب ملزمة
Lippincott's Microbiology illustrated review	ج- كتب مقترحة
1. asmnews@asmusa.org 2. http://www.phage.org/black09.htm 3. http://www.microbe.org/microbes/virus_or_bacterium.asp 4. http://www.bact.wisc.edu/Bact330/330Lecturetopics 5. http://whyfiles.org/012mad_cow/7.html 6. http://www.microbelibrary.org 7. http://www.hepnet.com/hepb.htm 8. http://www.tulane.edu/~dmsander/Big_Virology/BVHomePage.html 9. http://www.mic.ki.se/Diseases/c2.html 10. http://www.med.sc.edu:85/book/welcome.htm http://www.bioiogy.arizona.edu/immunology/microbiology_immunology.html	د - دوريات علمية أو نشرات ... الخ

رئيس مجلس القسم العلمي :اد/ ريم رفعت

أستاذ المادة اد/ ريم رفعت

نموذج رقم (12)

جامعة / أكاديمية بنها .
كلية / معهد : ..الطب..

قسم / Department of Pathology

توصيف مقرر دراسي Pathology

1- بيانات المقرر		
الفرقة / المستوى :	اسم المقرر: Pathology	الرمز الكودي :
Master of Science in Critical Care Medicine		CCM603

<input type="checkbox"/>	<input type="checkbox"/> 1	عدد الوحدات الدراسية : نظري عملي	التخصص : Master of Science in Critical Care Medicine
For 15 week			

<p>By the end of the course <i>the student should be able to</i></p> <ul style="list-style-type: none"> • Good application of basic pathological knowledge essential for the practice of general medicine and critical care medicine. • Providing basic and specialized services in relation with biopsy diagnosis in the practice of medicine and investigations. • Application of special knowledge & its integration with others that have relation with the special practice. 	2- هدف المقرر :
3- المستهدف من تدريس المقرر :	
<p>By the end of the course the student should be able to</p>	

<p>2.a.1. Describe the dissection of different types of biopsies.</p> <p>2.a.2. Identify the laws in relation to the practical work, medical practice and be acquainted with related relevant amendments and also related judgments passed by constitutional courts .</p> <p>2.a.3 Describe the clinical manifestations and differential diagnosis of common pathological cases.</p> <p>2.a.4. State the scientific basis and interpretation of various diagnostic modalities essential for critical care medicine.</p> <p>2.a.5. Identify the principles that govern ethical decision making in clinical practice as well as the pathological aspect of medical malpractice.</p> <p>2.a.6. Describe ethics of medical research.</p> <p>2.a.7. Identify basic knowledge & theories needed to support literature retrieval and further research capabilities.</p> <p>2.a 8. Explain the importance of life-long self-learning required for continuous professional development.</p>	<p>أ- المعلومات والمفاهيم :</p>
<p>2.b.1. Evaluate the risky problems that could be met during taking biopsies .</p> <p>2.b.2. Combine the clinical and investigational database to be proficient in clinical problem solving.</p> <p>2.b.3. Plan for performance development in critical care medicine field.</p> <p>2.b.4. Evaluate the most appropriate and cost effective diagnostic procedures for each problem.</p> <p>2.b.5. Formulate of research hypothesis & questions.</p>	<p>ب- المهارات الذهنية:</p>

<p>2.c.1 Diagnose cases by use available investigation.</p> <p>2.c.2. Apply all important pathological aspects for early cancer detection and assessment.</p> <p>2.c.3. Diagnose and manage different cases</p> <p>2.c.4. Apply cancer assessment, cytological and immune histochemical reports .</p> <p>2.c.5. Apply different technical skills in his special practice</p>	<p>ج-</p> <p>المهارات المهنية الخاصة بالمقرر :</p>
<p>2.d.1. Work effectively as a member or a leader of an interdisciplinary team and</p> <p>2.d.2. Able to put rules &regularities for evaluation of performance of others.</p> <p>2.d.3. Establish life-long self-learning required for continuous professional development.</p> <p>2.d.4. Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.</p> <p>2.d.5. Do self criticism.</p> <p>2.d.6. Retrieve, manage, and manipulate information by all means, including electronic means.</p>	<p>د -</p> <p>المهارات العامة :</p>

Subject	4- محتوى
	المقرر:
General pathology	
Cell response to injury, Stem cells and repair, Tissue deposits	
Inflammation ,Granulomas ,Viral diseases	
Disturbance of growth Neoplasia, Developmental and genetic diseases	
Circulatory disturbances, Radiation Basic immunopathology	
Diagnostic methods in pathology	
Special Pathology	
Diseases of the Cardiovascular system	
Diseases of the respiratory system	
Diseases of the urinary system:	
Diseases of the gastrointestinal tract	
Diseases of the Liver, gall bladder, pancreas	
Diseases of the lymphatic system, spleen , blood	
Diseases of the endocrine	
Types of biopsies. Diagnostic methods	
4.1-modified lectures & interactive learning: 4.2-Small group discussions and case studies التعليم باستخدام تكنولوجيا المعلومات E-Learning	5- أساليب التعليم والتعلم

لا ينطبق			6- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة
7- تقويم الطلاب :			
) <u>Examinassions description:</u>			أ- الأساليب المستخدمة
Exami nation	ILOs		
1- written exami nation	To assess knowledge, understanding, intellectual skills		
2- Oral exami nation	To assess knowledge, understanding, intellectual, general skills		
First part exam Written, Oral. 15 weeks			ب- التوقيت
5-D) <u>Weighting System:</u>			ج- توزيع الدرجات
Examination	Marks allocated	% of Tota Marks	
First part:			
a- Written	25	50%	
b- Oral	25	50%	
Total	50	100%	
8- قائمة الكتب الدراسية والمراجع :			

<p>1- Course notes 1-Handouts updated, administered by staff members 2-Museum notebook. 3-CDs for histopathological slides and museum specimens are available at the department.</p>	أ- مذكرات
<p>6.2- Essential books (text books) - Rosai and Ackerman's Surgical Pathology Juan Rosai, Mosby - Sternberg's Diagnostic surgical Pathology 4^{U1} edition, Lippincott Williams and Wilkins - Kumar V ,Abbas AK ,Faus to N:Robbins and Cotran Pathologic Basis of Disease ,7th ed.; Elsevier Saunders. Available at faculty bookshops & main library</p>	ب- كتب ملزمة
	ج- كتب مقترحة
<p>http://www.pathmax.com/http://www-medlib.med.utah.edu/WebPath/LABS/LABMENU.html#2 http://www.med.uiuc.edu/PathAtlasf/titlePage.html http://www.medscape.com/pathologyhome http://www.gw hyperlink , http://umc.edu/dept/path/2 http://mc.edu/dept/path/2F</p>	د - دوريات علمية أو نشرات ... الخ

أستاذ المادة اد/ :عبد اللطيف شبانه رئيس مجلس القسم العلمي

اد/ تغريد عبد السميع عبد العزيز

نموذج رقم (12)

جامعة/.....بناها

كلية/.....الطب

قسم /

biochemistry

توصيف المقرر دراسي biochemistry

بيانات المقرر		
الفرقة / المستوى : First Master of Science in Critical Care Medicine.	اسم المقرر : biochemistry	الرمز الكودي : CCM604
عدد الوحدات الدراسية : نظري 1 عملي <input type="checkbox"/>		التخصص : Master of Science in Critical Care Medicine.
For 15 week		

Fundamental aspects of medical biochemistry and molecular biology by what help the Critical care Medicine field. understanding of the biochemical importance of macro-, micronutrients, hormones and enzymes	2- هدف المقرر :
3- المستهدف من تدريس المقرر : <i>By the end of the course the student should be able to</i>	

<p>2.a.1. Describe the main metabolic pathways of the three main dietary sources of energy: carbohydrates, fats and proteins, their digestion absorption, their oxidation to release energy.</p> <p>2.a.2 State the regulation of these pathways and the integration of their metabolism</p> <p>2.a.3 Identify biochemical alteration in related metabolic disorders.</p> <p>2.a.4 Identify the role of vitamins and enzymes required for catalysis of these processes, in addition to their deficiency manifestations.</p> <p>2. a.5 Describe the contribution of certain tissues like liver, kidney and muscles to metabolism in health and disease.</p> <p>2.a.6. State the metabolism of the major minerals and trace elements, their functions and alterations in metabolic processes due to deficiency or excess.</p> <p>2.a.7. Describe knowledge about nucleic acid metabolism with special emphasis on their role in protein synthesis.</p> <p>2. a.8 State the general principles of genetic engineering and how may this be used for the diagnosis and management of diseases.</p> <p>2. a.9 Describe the components of some body fluids: blood, urine and CSF.</p>	<p>أ- المعلومات والمفاهيم :</p>
<p>2. b.1 Analyze pathological glucose tolerance curve.</p> <p>2. b.2 Interpret medical laboratory reports.</p> <p>2.b.3 Interpret problems related to metabolic disturbances.</p>	<p>ب- المهارات الذهنية:</p>
<p>2. C.1 writes medical laboratory reports.</p> <p>2.c.2 Diagnose metabolic disturbances.</p>	<p>ج- المهارات المهنية</p>
<p>2. d.1. Communicate with others.</p> <p>2.d.2. Use available resources to get data& knowledge.</p>	<p>د - المهارات العامّة :</p>

Blood pH regulation, acidosis and alkalosis.	4- محتوى المقرر:
Major pathways of glucose oxidation.	
Blood glucose regulation, hyper- and hypoglycemia.	
Diabetes Mellitus, galactosemia& glycogen storage disease.	
Plasma lipoproteins, hyperlipidemia, lipotropic factors, fatty liver	
F.A. oxidation, ketosis, cholesterol metabolism, hypercholesterolemia and Atherosclerosis	
Inborn errors of amino acids metabolism, urea cycle, NPN compounds	
Heme metabolism Porphyria and Jaundice	
Insulin, steroid, thyroid and parathyroid hormones.	
Vitamins & their deficiency manifestation.	
Calcium & phosphate homeostasis, sodium, potassium, iron and their deficiency manifestation.	
Hyperuricemia& gout.	
DNA structure, replication, transcription, regulation of gene expression, DNA damage and repair	

RNA structure, transcription and posttranscriptional modification.		
Cell cycle, apoptosis & tumor markers.		
Protein synthesis: translation and posttranslational modifications.		
Recombinant DNA technology, blotting techniques.		
Plasma enzymes, their diagnostic values, Liver & kidney function tests.		
Urine, blood and CSF: normal and abnormal constituents & their clinical relevance.		
Total		

Modified Lectures and discussion.		5- أساليب التعليم والتعلم
	لا ينطبق	6- أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة
7- تقويم الطلاب :		
<u>B Examinassions description:</u>		أ- الأساليب المستخدمة
Examination	Type	Description
Final Examination	1. Written	One and half hour written paper composed of Long &short essay-type questions and MCQs. To assess knowledge, understanding, intellectual, skills
	3. Oral	One oral examination station with 2 staff members (20-30 minutes) To assess knowledge, understanding, intellectual, practical skills
<u>C) TIME SCHEDULE:</u>		ب- التوقيت
Exam	week	
1- Final exam	After 6 months from registration for MSc. degree	

Weighting System:			ج- توزيع الدرجات
Examination	Marks allocated	% of Total Marks	
2- Final exam:			
a- Written	25	50%	
b- Oral	25	50%	
Total	50	100%	
<p>- Passing grades are: EXCELLENT >85%, VERY GOOD 75- <85%, GOOD 65- <75% and FAIR 60-<65%.</p>			
8- قائمة الكتب الدراسية والمراجع :			
-----			أ- مذكرات
Essential books: Harper's Biochemistry by: Roberk K. Murray, Daryl K. Granner, And PeterA.Mayesand Victor W.Rodwell.			ب- كتب ملزمة
Recommended Books: Lippincott's illustrated Biochemistry			ج- كتب مقترحة
<ul style="list-style-type: none"> ▪ Periodical websites: www.clinchem.org 			د - دوريات علمية أو نشرات ... الخ

رئيس مجلس القسم العلمي: أستاذ المادة اد/عوض محمد عوض
 اد/عوض محمد عوض

نموذج رقم (12)

جامعة / أكاديمية : بنها.....
كلية / معهد : .الطب.....
قسم : ...طب ورعايه الحالات الحرجه.....

توصيف مقرر دراسي

1- بيانات المقرر		
الرمز الكودي : CCM605	اسم المقرر : Physiology	الفرقة / المستوى : ماجستير جزء اول
التخصص: Master of Science in Critical Care Medicine	عدد الوحدات الدراسية : نظري <input type="text" value="1"/> عملي <input type="text"/>	For 15 week

- 1.1.** Physiology course aims at approaching to the detailed knowledge of human physiology.
- 1.2.** Facilitate understanding the clinical data for the student in the clinical practice.
- 1.3.** Develop skills associated with improved health care and health care services.
- 1-4 Basic scientific knowledge essential to practice medicine at the primary level of health, dealing with health problems commonly met-with- in clinical practice.
- 1-5 Basic scientific knowledge essential I for establishing & maintaining good doctor/ patient relationship.
- 1.6. Basic scientific knowledge essential for following the rules of medical ethics.
- 1.7. Diagnostic, problem solving and decision making as well as communication skills necessary for proper evaluation and management of health problems.
- 1.8. Life long learning competencies necessary for continuous professional development.
- 1.9. Research education as related to medical practice & post graduation development

2- هدف المقرر :

3- المستهدف من تدريس المقرر :

<p>2a1- Recognize the physiology of the cardiac muscle, cardiac muscle properties, and cardiac output.</p> <p>2a2- Know the principles of blood regulation.</p> <p>2a3- Describe adequately the coronary, pulmonary, and cerebral circulations.</p> <p>2a4- Define the principles of lung mechanics, as well as the basic principles of gas exchange.</p> <p>2a5- Focus on oxygen and CO₂ transport in the blood and tissues.</p> <p>2a6- Pay special attention on the central control of respiration.</p> <p>2a7- the basic physiology of hemostasis.</p> <p>2a8- Describe the renal functions and its role in homeostasis.</p> <p>2a9- Define the physiology of thyroid and pituitary glands.</p> <p>2a10- Describe the physiological control of body temperature.</p>	<p>أ- المعلومات والمفاهيم :</p>
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<p>2. b.1- Identify deviations from the normal physiology and its effects.</p> <p>2. b.2- Interpret clinical manifestations into physiological data.</p> <p>2. b.3- Illustrate physiological information in the form of simplified diagrams with complete data on it.</p> <p>2. b.4- Interconnect different branches of physiology to that of intensive care medicine.</p> <p>2. b.5- Analyze any physiological curve related the to intensive care medicine.</p> <p>2. b.7- The ability to search, analyze and summarize updated physiological information.</p> <p>2. b.8-. Describe the normal structure and function of the human body and mind at the molecular, biochemical, cellular, levels (including the principles of genetics), to maintain the body homeostasis.</p>	<p>ب- المهارات</p> <p>الذهنية:</p>
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<p>2. c.1- Perform efficiently the appropriate steps and procedures in measuring pulse, respiratory rate and arterial blood pressure.</p> <p>2. c.2- assess acid base and electrolyte balance.</p> <p>2.c.3- interpret different laboratory tests as isolated perused heart</p> <p>2.c.4-asses pulmonary function tests</p> <p>2. c.5-record intestinal motility in animals under various conditions.</p> <p>2.c.6-asses skeletal and smooth muscle contraction</p> <p>2. c.7- study and read ECG papers.</p>	<p>ج- المهارات المهنية</p> <p>الخاصة بالمقرر :</p>
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<p>2. d.1- deal properly and cautiously in a lab.</p> <p>2. d.2- Use the sources of biomedical information to remain current with the advances in knowledge & practice.</p> <p>2.d.3- Perform tests showing the molecular, biochemical, and cellular mechanisms that are important in maintaining the body's homeostasis.</p> <p>2.d.4- Demonstrate the functions of the body and its major organ systems that are seen in anesthesia diseases and conditions.</p> <p>2. d.5- Perform routine technical procedures; diagnostic and therapeutic (including life support).</p>	<p>د - المهارات العامة</p> <p>:</p>
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Neurotransmitters Pain sensation. Pain control system. Stretch reflex and muscle tone. Autonomic receptors. Neuromuscular transmission. Arterial blood pressure and its regulation' C.O.P and its regulation. E.C.G (Leads , record , normal and up normal E.C.G) Hemorrhage and shock. Factors affecting exchange of gases across the pulmonary membrane. Gas transport by the blood Regulation of respiration. Pulmonary function tests. Hypoxia and cyanosis. Acid – base balance. anemia Fever Thyroid hormone Suprarenal cortical hormone	4- محتوى المقرر:
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<p>General lectures seminaries conferences</p>	<p>5- أساليب التعليم والتعلم</p>						
	<p>6- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة</p>						
<p>7- تقويم الطلاب :</p>							
<p><u>Assessment TOOLS:</u></p> <table border="1" data-bbox="251 909 1049 1339"> <thead> <tr> <th data-bbox="251 909 548 1037">Tool</th> <th data-bbox="548 909 1049 1037">Purpos ILOs)</th> </tr> </thead> <tbody> <tr> <td data-bbox="251 1037 548 1165">Written examination</td> <td data-bbox="548 1037 1049 1165">To assess knowledge acquisition, including MCQs and problem solving</td> </tr> <tr> <td data-bbox="251 1165 548 1339">Oral examination</td> <td data-bbox="548 1165 1049 1339">To assess understanding and stability of knowledge given, attitude and presentation.</td> </tr> </tbody> </table>	Tool	Purpos ILOs)	Written examination	To assess knowledge acquisition, including MCQs and problem solving	Oral examination	To assess understanding and stability of knowledge given, attitude and presentation.	<p>أ- الأساليب المستخدمة</p>
Tool	Purpos ILOs)						
Written examination	To assess knowledge acquisition, including MCQs and problem solving						
Oral examination	To assess understanding and stability of knowledge given, attitude and presentation.						
<p><u>TIME SCHEDULE:</u></p> <table border="1" data-bbox="251 1518 1049 1680"> <thead> <tr> <th data-bbox="251 1518 634 1562">Exam</th> <th data-bbox="634 1518 1049 1562">Month</th> </tr> </thead> <tbody> <tr> <td data-bbox="251 1562 634 1680">5- First part exam</td> <td data-bbox="634 1562 1049 1680">After 6 months from registration for MSc. degree</td> </tr> </tbody> </table>	Exam	Month	5- First part exam	After 6 months from registration for MSc. degree	<p>ب- التوقيت</p>		
Exam	Month						
5- First part exam	After 6 months from registration for MSc. degree						

Weighting System:			ج- توزيع الدرجات
Examination	Marks allocated	% of Total Marks	
2- Final exam:			
a- Written	25	50%	
b- Oral	25	50%	
Total	50	100%	
<p>- Passing grades are: EXCELLENT >85%, VERY GOOD 75- <85%, GOOD 65- <75% and FAIR 60-<65%.</p>			
8- قائمة الكتب الدراسية والمراجع :			
<p>- Course notes Theoretical and practical books are available from faculty bookshops.</p>			أ- مذكرات
<p>- Essential books (text books Poul-Erik Paulev: Medical Physiology And Pathophysiology Essentials and clinical problems.</p>			ب- كتب ملزمة
<p>- Recommended books Poul-Erik Paulev: Medical Physiology Textbook</p> <p>- Guyton 2018</p> <p>-ganong 2018</p>			ج- كتب مقترحة

<p>- Periodicals, Web sites, ... etc. www.jap.physiology.org www.physiologyonline.physiology.org/cgi/content asmnews@asmusa.org</p>	<p>د - دوريات علمية أو نشرات ... الخ</p>
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أستاذ المادة اد/علاء التليس:.....
رئيس مجلس القسم العلمي: اد/ راندا
محمد أحمد

.....

جامعة / أكاديمية : بنها..

كلية / معهد : .الطب.....

قسم : ...طب ورعايه الحالات الحرجه

توصيف مقرر دراسي

1- بيانات المقرر		
الفرقة / المستوى : ماجستير جزء اول	اسم المقرر : Internal Medicine	الرمز الكودي : CCM606
عدد الوحدات الدراسية : نظري 2 عملي 1 For 15 week		التخصص : Master of Science in Critical Care Medicine

This course consists of units

(Modules)

Unit 1- Cardiovascular.

Unit 2- Gastroenterology & Hepatology

Unit 3- Nephrology and dialysis.

Unit 4 –Endocrinology

and diabetes.

Unit 5- Hematology.

Unit 6- Chest disease.

Unit 7- Neurological disease.

Unit 8- Rheumatologic disease

Unit 9- General emergency unit.

<p>To enable candidates to acquire satisfactory level of clinical skills, bedside care skills, in addition to update medical knowledge as well as clinical experience and competence in the Internal medicine and enabling the candidates of making appropriate referrals to a sub-specialist.</p> <p>To demonstrate the ability to provide patient-centered care that is appropriate, compassionate, and effective for treatment of diseases related to Internal medicine subspecialties and the promotion of health.</p> <p>To give opportunities to evaluate and manage a broad variety of cardiovascular diseases & endocrine & GIT disorders& chest and neurological disorders.</p> <p>To learn candidates to develop skills for using diagnostic tools.</p> <p>.</p>	<p>2- هدف المقرر :</p>
<p>3- المستهدف من تدريس المقرر :</p>	

Unit 1 Cardiovascular

أ- المعلومات والمفاهيم :

2.a.1-Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:

- Myocardial ischemia syndromes like chronic stable angina, acute coronary syndromes, coronary artery spasm, and others.
- Hypertension and hypertensive heart diseases.
- Rheumatic fever and rheumatic heart diseases.
- Different pericardial diseases, whether acute or chronic.
- Acute and chronic diseases of the myocardial muscle.
- Arrhythmias

2.a.2-Mention the principles of :

- Disturbances of the cardiac rhythm and all types of both tachycardias & bradycardias.
- Interrelation ship between the heart and other body systems.
- Drug and non drug therapy of different cardiac diseases.
- Indications for echocardiography

2.a.3-State update and evidence based Knowledge of

Myocardial ischemia syndromes like chronic stable angina, acute coronary syndromes, coronary artery spasm, and others.)

2.a.4-Memorize the facts and principles of the relevant basic and clinically supportive sciences related to Cardiovascular system.

2.a.5-Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to Cardiovascular system.

2.a.6-Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to Cardiovascular system.

2.a.7-Mention the ethical and scientific principles of medical research methodology.

2.a.9-State the impact of common health problems in the field of cardiovascular diseased on the society and how good clinical practice improve these problems.

Unit 2 Gastroenterology and Hepatology

2.a.1-Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:

- Malabsorption
- Acute and chronic diarrhea
- Acid pepsin disorder and peptic ulcer
- GIT malignancy
- GIT motility disorders
- Esophageal disorders
- Acute and chronic hepatitis
- Hepatic encephalopathy
- NASH
- Hepatic malignancy
- Acute and chronic pancreatitis
- Tumors of the pancreas
- Hepatorenal syndrome

2.a.2-Mention the principles of :

- 2.b.1-Cholangitis
- 2.b.2-Medical acute abdomen
- 2.b.3-Acute liver cell failure.
- 2.b.4-Hemodynamic monitoring

2.a.3-State update and evidence based Knowledge of:

- Malabsorption
- Acute and chronic diarrhea
- GIT malignancy
- GIT motility disorders
- Acute and chronic hepatitis
- Liver cirrhosis
- Hepatic encephalopathy
- NASH
- Hepatic malignancy
- Acute and chronic pancreatitis
- Tumors of the pancreas

أ- المعلومات

والمفاهيم :

a. Jaundice
Ascites

2.a.4-Memorize the facts and principles of the relevant basic and clinically supportive sciences related to gastroenterology and hepatic disease.

2.a.5-Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to gastroenterology and hepatic diseases.

2.a.6-Mention the basics and standards of quality assurance to ensure good clinical practice in the field of gastroenterology and hepatic diseases

2.a.7-State the impact of common health problems in the field of gastroenterology and hepatic diseases on the society and how good clinical practice improve these Problems.

Unit 3 Nephrology and dialysis

أ- المعلومات والمفاهيم

2.a.1-Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:

- Glomerulonephritis
- Nephrotic syndrome
- Tubulo interstitial disease
- Renal failure

2.a.2-Mention the principles of :

- Renal vascular disease
- Dialysis.

2.a.3-State update and evidence based Knowledge of:

- Nephrotic syndrome
- Renal failure

2. a.4-Memorize the facts and principles of the relevant basic and clinically supportive sciences related to nephrology.

2.a.5-Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to nephrology.

2.a.6-Mention the basics and standards of quality assurance to ensure good clinical practice in the field of nephrology

2.a.7-State the impact of common health problems in the field of nephrology on the society and how good clinical practice improve these problems..

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Unit 4 Endocrinology and diabetes

أ- المعلومات

والمفاهيم :

2.a.1-Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:

- Diabetes mellitus
- Thyroid and parathyroid diseases
- Adrenal gland diseases
- Obesity
- Pituitary gland diseases
- Diabetes insipidus
- Short stature
- Diabetes insipidus
- Osteoporosis
- Endocrine Emergencies

2.a.2-Mention the principles of :

2.b.1-Growth disorder

2.b.2-Ca homeostasis

2.a.3-State update and evidence based Knowledge of endocrinal diseases.

2.a.4-Memorize the facts and principles of the relevant basic and clinically supportive sciences related to endocrinal diseases.

2.a.5-Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to endocrinal diseases.

2.a.6-Mention the basics and standards of quality assurance to ensure good clinical practice in the field of endocrinal diseases.

2.a.7-State the impact of common health problems in the of endocrinology on the society and how good clinical practice improve these problems.

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Unit5 Hematology

أ- المعلومات والمفاهيم :

2.a.1-Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:

- Anemia's (Iron deficiency, Megaloblastic, Hemolytic)
- Hemoglobinopathies
- Myelodysplastic syndromes
- Acute leukemias
- Chronic leukemias
- Lymphomas
- Myeloproliferative disorders
- Plasma cell disorders (Multiple myeloma)
- Clotting disorders
- Thrombophilia (predisposition, causes)
- Disorders of Bleeding (platelet function and number disorders) Vascular disorders
- Neutropenic patients
- Critically thrombocytopenic patients

2.a.2-Mention the principles of :

- Blood transfusion
- Hemodynamic monitoring

2.a.3-State the impact of common health problems in the field of Hematological diseases on the society and how good clinical practice improve these problems.

2.a.4-Mention the ethical and scientific principles of medical research methodology.

Unit 6 CHEST DISEASES

أ- المعلومات والمفاهيم:

2.a.1-Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:

- Pneumonias
- Acute asthma
- Pleural effusion
- Respiratory failure (acute & chronic)
- Interstitial pulmonary fibrosis
- Chronic obstructive pulmonary

disease(COPD)

2.a.2-Mention the principles of respiratory failure.

2.a.3-Memorize the facts and principles of the relevant basic and clinically supportive sciences related to chest

2.a.4-Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to Chest

2.a.5-Mention the basics and standards of quality assurance to ensure good clinical practice in the field of Chest.

2.a.6-Mention the ethical and scientific principles of the research methodology.

2.a.7-State the impact of common health problems in the field of Chest on the society and how good clinical practice improve these problems.

Unit7 Neurology

2.a.1-Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:

- Cerebrovascular stroke
- Myopathy and neuromuscular junctional disorder
- Neuropathies.
- Coma (causes and management)
- Infections of nervous system

2.a.2-Mention the principles of :

- Anatomic Principles of central and peripheral nervous system
- Physiology of neurological reflexes and their centers
- Interpretation of investigations as CT brain.

- Involuntary movement

2.a.3-State update and evidence based Knowledge of

- Stroke -Coma -Neuropathy**

2.a.4-Memorize the facts and principles of the relevant basic and clinically supportive sciences related to neurological disorders related to internal medicine.

2.a.5-Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to neurological disorders related to internal medicine.

2.a.6-State the impact of common health problems in the field neurology on the society and how good clinical practice improve these problems.

Unit 8 Rheumatology, and musculoskeletal disorders

أ- المعلومات والمفاهيم:

2.a.1-Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:

- Rheumatoid arthritis
- SLE
- Crystal induced arthropathy
- Systemic sclerosis
- Dermatomyositis, polymyositis and Osteoarthritis
- Seronegative arthropathy
- Arthritis in systemic diseases

2.a.2-Mention the principles of :

-Hematological and gastroenterology changes in rheumatologic diseases.

2.a.3-State update and evidence based Knowledge of:

- Rheumatoid arthritis.
- SLE.
- Arthritis in systemic diseases.
- Infective arthritis.

2.a.4-Memorize the facts and principles of the relevant basic and clinically supportive sciences related to rheumatologic diseases.

2.a.5-Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to rheumatologic diseases.

2.a.6-Mention the basics and standards of quality assurance to ensure good clinical practice in the field of rheumatologic diseases.

2.a.7-State the impact of common health problems in the field of Rheumatology on the society and how good clinical practice improve these problems.

Unit 9 General emergency

أ- المعلومات والمفاهيم:

2.a.1- Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:

-Comatosed patients

2.a.2- State update and evidence based Knowledge of Shock and CPR.

2.a.3- Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to related to General emergency unit.

2.a.4- Mention the basics and standards of quality assurance to ensure good clinical practice in the field of General emergency unit.

2.a.5- Mention the ethical and scientific principles of medical research methodology.

2.a.6- State the impact of common health problems related To General emergency unit on the society and how good clinical practice improve these problems.

ب- المهارات الذهنية:

2.b.1- Correlates the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases related to Advanced internal medicine.

2.b.2- Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related to Advanced internal medicine.

2.b.3- Design and /or present a case or review (through seminars/journal clubs.) in one or more of common clinical problems relevant to the field of Advanced internal medicine.

2.b.4- Formulate management plans and alternative decisions in different situations in the field of the advanced internal medicine.

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Unit 1 Cardiovascular

2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.

2.c.2- Order and interpret the following non invasive/invasive diagnostic procedures:

- Routine appropriate Lab investigations related to conditions mentioned in A.A
- X ray chest
- cardiac markers
- ECG
- Echocardiography
- Blood gases
- CVP

2.c.3- Carry out patient management plans for common conditions related to cardiology.

2.c.4- Use information technology to support patient care decisions and patient education in common clinical situations related to cardiology.

2.c.5- Provide patient-focused care in common conditions related to cardiology while working with health care professionals, including those from other disciplines like: Conditions mentioned in A.A.

2.c.6- Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records).

ج- المهارات المهنية

الخاصة بالمقرر :

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Unit 2 Gastroenterology and hepatology

2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.

2.c.2- Order the following non invasive/invasive diagnostic procedures:

- Stool analysis
- Liverfunction test
- Chest X ray
- Barium studies
- Abdominal US
- .Abdominal CT & MRI

Upper and lower GI endoscopy GIT motility study

2.c.3- Perform the following non invasive and invasive diagnostic and therapeutic procedures.

- Abdominal US .
- Liver biopsy under supervision
- Abdominal Paracentesis
- Nasogastric tube and sungestaken tube application

2.c.4- Carry out patient management plans for common conditions related to Gastroenterology and hepatology.

2.c.5- Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records).

ج- المهارات المهنية

الخاصة بالمقرر :

Unit 3 Nephrology and dialysis

2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.

2.c.2- Order, interpret and perform the following non invasive/invasive diagnostic procedures:

- Routine appropriate Lab investigations related to conditions mentioned in A.A:
- Abdominal Ultrasonography
- CT abdomen
- Urine analysis
- Blood gases
- Dialysis

2.c.3- Carry out patient management plans for common conditions related to Nephrology.

2.c.4- Use information technology to support patient care decisions and patient education in common clinical situations related to Nephrology.

2.c.5- Provide health care services aimed at preventing health problems related to Nephrology.

2.c.6- Provide patient-focused care in common conditions related to Nephrology. , while working with health care professionals, including those from other disciplines like: Conditions mentioned in A.A.

2.c.7- -Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan.

ج- المهارات

المهنية الخاصة

بالمقرر :

Unit4 Endocrine and diabetes

2.c.1- Obtain proper history and examine patients in caring and respectful

Behaviors.

2.c.2- -Order and interpret the following non invasive/invasive diagnostic procedures

-Routine appropriate Laboratory investigations related to conditions mentioned in A.A .

-Urine and stool analysis

-Measure the blood sugar.

--Ultrasonography

2.c.3- -Carry out patient management plans for common conditions related to Endocrinal diseases.

2.c.4- Use information technology to support patient care decisions and patient education in common Endocrinal diseases.

2.c.5- Provide healthcare services aimed at preventing Endocrinal diseases.

4.a.6- Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records.

<p style="text-align: center;">Unit 5 Haematology</p> <p>2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.</p> <p>2.c.2- Order the following non invasive/invasive diagnostic procedures</p> <ul style="list-style-type: none"> -Routine appropriate Laboratory investigations related to conditions mentioned in A.A and A.B as -CBC, Blood film -Liver function tests -Abdominal Ultrasonography -CT abdomen -Platelet function. -Coagulation profile. <p>2.c.3- Perform the following non invasive/invasive Diagnostic and therapeutic procedures.</p> <ul style="list-style-type: none"> -Plasmapheres. <p>2.c.4- Provide patient-focused care in common conditions related to Hematological diseases. , while working with health care professionals, including those from other disciplines .</p> <p>2.c.5- Provide health care services aimed at preventing health problems related to Hematological diseases.</p> <p>like:</p> <ul style="list-style-type: none"> - Delayed diagnosis of neoplastic blood diseases. - Anemia. <p>2.c.6- Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets .</p>	<p style="text-align: center;">جـ-</p> <p>المهارات</p> <p>المهنية</p> <p>الخاصة</p> <p>بالمقرر :</p>
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Unit 6 Chest

2.c.5- Obtain proper history and examine patients in caring and respectful behaviors.

2.c.5- Order and interpret the following non invasive/invasive diagnostic procedures

- Routine appropriate Laboratory investigations related to conditions mentioned in A.A and A.B as
- ECG
- Chest X-ray
- ESR, blood culture.
- Echocardiography.
- Sputum culture
- Blood chemistry.

2.c.6- Perform the following non invasive/invasive Diagnostic and therapeutic procedures.

2.c.7- Provide patient-focused care in common conditions related to chest diseases. , while working with health care professionals, including those from other disciplines .

2.c.8- Provide health care services aimed at preventing health problems related to chest diseases

2.c.9- Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets .

2.c.9- Carry out patient management plans for common conditions related to Chest.

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المهارات

المهنية

الخاصة

بالمقرر :

Unit 7 Neurology	جـ-
<p>2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.</p> <p>2.c.2- Order and interpret the following non invasive/invasive diagnostic procedures</p> <ul style="list-style-type: none"> -Routine appropriate Laboratory investigations related to conditions mentioned in A.A and A.B as - CT and MRI brain - ECG - Blood chemistry - Serum electrolytes - EEG. <p>2.c.3- Perform the following non invasive/invasive Diagnostic and therapeutic procedures.</p> <p>2.c.4- Provide patient-focused care in common conditions related to neurology diseases. , while working with health care professionals, including those from other disciplines .</p> <p>2.c.5- Provide health care services aimed at preventing health problems related to neurology diseases</p> <p>2.c.6- Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets .</p>	<p>المهارات</p> <p>المهنية</p> <p>الخاصة</p> <p>بالمقرر :</p>

Unit 8 Rheumatology	جـ -
<p>2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.</p>	المهارات
<p>2.c.2-Order and interpret the following non invasive/invasive diagnostic procedures</p> <ul style="list-style-type: none"> -Routine appropriate Laboratory investigations related to conditions mentioned in A.A and A.B as - Endocrinal profile - Chest X-ray - Blood chemistry - Serum electrolytes - ESR, bloodculture 	المهنية الخاصة بالمقرر :
<p>2.c.3- Perform the following non invasive/invasive Diagnostic and therapeutic procedures.</p> <ul style="list-style-type: none"> - ECG - Plasmapheresis 	
<p>2.c.4- Provide patient-focused care in common conditions related to rheumatology diseases. , while working with health care professionals, including those from other disciplines .</p>	
<p>2.c.5- Provide health care services aimed at preventing health problems related to rheumatology diseases</p>	
<p>2.c.6- Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets .</p>	
<p>2.c.6- Carry out patient management plans for</p>	

common conditions related to Rheumatologic diseases.	
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<p style="text-align: center;">Unit 9 General emergency unit</p> <p>2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.</p> <p>2.c.2- Order and interpret the following non invasive/invasive diagnostic procedures</p> <p style="padding-left: 40px;">4.b.1-Routine appropriate Laboratory investigations related to conditions mentioned in A.A and A.B as</p> <p style="padding-left: 40px;">4.b.2- Complete laboratory investigations.</p> <p style="padding-left: 40px;">4.b.3- Imaging studies according to the suspected disease.</p> <p>2.c.3- Perform the following non invasive/invasive Diagnostic and therapeutic procedures.</p> <p style="padding-left: 40px;">4.c.1- ECG</p> <p style="padding-left: 40px;">4.c.2- Blood gases</p> <p style="padding-left: 40px;">4.c.3- Ryle tube insertion</p> <p>2.c.4- Provide patient-focused care in common conditions related to emergency diseases. , while working with health care professionals, including those from other disciplines .</p> <p>2.c.5- Provide health care services aimed at preventing health problems related to emergency diseases</p> <p>2.c.6- Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets .</p> <p>2.c.7- Carry out patient management plans for common conditions related to emergency diseases.</p>	<p>جـ-</p> <p>المهارات</p> <p>المهنية</p> <p>الخاصة</p> <p>بالمقرر :</p>
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<p style="text-align: center;">for all units (1-9)</p> <p>2.d.1-Perform practice-based improvement activities using a systematic methodology (share in audit and risk management activities and use logbook).</p> <p>2.d.2-Appraises evidence from scientific studies(journal club).</p> <p>2.d.3-Conduct epidemiological Studies and surveys.</p> <p>2.d.4-Perform data management including data entry and analysis using information technology to manage information, access on- line medical information; and support their own education.</p> <p>2.d.5-Facilitate learning of junior students and other health care professionals including their evaluation and assessment.</p>	<p>د - المهارات العامة</p> <p>:</p>
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Unit 1 Cardiovascular system

1. Myocardial ischemia syndromes like chronic stable angina, acute coronary syndromes and coronary artery spasm.
2. Hypertension and hypertensive heart diseases.
3. Rheumatic fever and rheumatic heart diseases.
4. Different pericardial diseases, whether acute or chronic.
5. Arrhythmias and disturbances of the cardiac rhythm and all types of both tachycardias & bradycardias.
6. Cardiogenic shock.

Unit 2 Gastroenterology, hepatology

1. Acute and chronic diarrhea
2. Acid peptic disorder and peptic ulcer
3. GIT malignancy
4. GIT motility disorders and Esophageal disorder
5. Acute and chronic Hepatitis
6. Liver cirrhosis and Hepatic encephalopathy
7. Hepatic malignancy
8. Hepatorenal syndrome
9. Acute and chronic pancreatitis
10. Jaundice and Ascites

11. Central venous line
Placement and
Hemodynamic
monitoring.

Unit 3 Nephrology and dialysis

1. Glomerulonephritis
2. Nephrotic syndrome
3. Tubulo interstitial disease
4. Renal failure
5. UTI
6. Kidney in systemic disease.
7. Renal vascular disease.
8. Dialysis.

Unit 4 Endocrine and Diabetes

1. Diabetes mellitus.
2. Thyroid and parathyroid Diseases.
3. Adrenal gland diseases.
4. Obesity.
5. Pituitary gland diseases.
6. Diabetes insipidus.
7. Osteoporosis.
8. Short stature and Growth disorder.
9. Ca homeostasis.
10. Update in endocrine Disorders

Unit 6 CHEST DISEASES

1. COPD and status asthmatics
2. Lung cancer
3. Pleural effusion and pneumothorax

4- محتوى المقرر:

- | | |
|--|--|
| <p>4. Interstitial pulmonary fibrosis
5. Respiratory failure</p> | |
|--|--|

Unit 7 Neurology

1. Stroke and Coma
2. Neuropathy ,
Myopathy and
neuromuscular junctional
Disorder
3. Infections of nervous
system
4. Anatomic Principles of central and
peripheral
nervous system
5. Physiology of
neurological reflexes and
their centers
6. Interpretation of
investigation as CT brain.

8- Rheumatology and musculoskeletal disorders

1. Rheumatoid arthritis
2. Crystal induced
arthropathy
3. Systemic sclerosis,
SLE
4. Dermatomyositis and
Polymyositis
5. Osteoarthritis
6. Seronegative
arthropathy
7. Arthritis in systemic
diseases
8. Infective arthritis
9. Antiphospholipid
syndrome
10. Hematological and
gastroenterology changes

4- محتوى المقرر:

in Rheumatologic
diseases.

Unit 9 General emergency

1. Comatose patient

2. Shock and Fluid

therapy

3. Electrolyte imbalance

4. Acid base

imbalance

<p>1.General lectures 2.-seminares 3-confrences</p>	<p>5- أساليب التعليم والتعلم</p>								
	<p>6- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة</p>								
<p>7- تقويم الطلاب :</p>									
<p><u>Assessment TOOLS:</u></p> <table border="1" data-bbox="253 1039 1011 1556"> <thead> <tr> <th data-bbox="253 1039 727 1083">Purpose (ILOs)</th> <th data-bbox="727 1039 1011 1083">Tool</th> </tr> </thead> <tbody> <tr> <td data-bbox="253 1083 727 1211">To assess knowledge acquisition, including MCQs and case solving</td> <td data-bbox="727 1083 1011 1211">Written examination</td> </tr> <tr> <td data-bbox="253 1211 727 1339">To assess understanding and stability of knowledge given, attitude and presentation.</td> <td data-bbox="727 1211 1011 1339">Oral examination</td> </tr> <tr> <td data-bbox="253 1339 727 1556">To assess knowledge and understanding & intellectual skills, practical and clinical skills and transferable skills.</td> <td data-bbox="727 1339 1011 1556">practical examination</td> </tr> </tbody> </table>	Purpose (ILOs)	Tool	To assess knowledge acquisition, including MCQs and case solving	Written examination	To assess understanding and stability of knowledge given, attitude and presentation.	Oral examination	To assess knowledge and understanding & intellectual skills, practical and clinical skills and transferable skills.	practical examination	<p>أ- الأساليب المستخدمة</p>
Purpose (ILOs)	Tool								
To assess knowledge acquisition, including MCQs and case solving	Written examination								
To assess understanding and stability of knowledge given, attitude and presentation.	Oral examination								
To assess knowledge and understanding & intellectual skills, practical and clinical skills and transferable skills.	practical examination								

<u>TIME SCHEDULE:</u>		ب- التوقيت
Exam	Week	
Final exam in first part	After 6 months from registration for MSc. Degree. First part	

<u>Weighting System:</u>			ج- توزيع الدرجات
% of Total Marks	Marks allocated	Examination	
50%	50	2- Final exam: a- Written b- Oral c-practical	
25%	25		
25%	25		
100%	100	Total	
<p>- Passing grades are: EXCELLENT >85%, VERY GOOD 75- <85%, GOOD 65- <75% and FAIR 60-<65%.</p>			
8- قائمة الكتب الدراسية والمراجع :			
<p>Course notes. Theoretical and practical books are available from faculty bookshops</p>			أ- مذكرات

<p style="text-align: center;">Essential books (text books)</p> <ol style="list-style-type: none"> 1- Cecil textbook of Medicine. 1- Oxford - text book of Medicine, Davidson. 2- Current Medical Diagnosis & treatment. 3- Breinerwold text book of cardiology. 4- Brenner's text book of nephrology 5- William's text book of endocrinology. 6- Hutchison's clinical methods 7- Clinical gastroenterology and hepatology (Wilfred M. Weinstein) 	<p style="text-align: center;">ب- كتب ملزمة</p>
<ol style="list-style-type: none"> 1. . Harrisons - text book of Medicine ,15 edition 2. Hurst text book of cardiology 3. Macloids clinical methods ... 	<p style="text-align: center;">ج- كتب مقترحة</p>

1.American Journal of internal Medicine. 2.New England 3.Journal of Medicine 4.American Journal Of Gastroenterology 5.BM 6.Egyptian Heart Journal	د - دوريات علمية أو نشرات ... الخ
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رئيس مجلس القسم العلمي : أستاذ المادة :.اد/فوزى مجاهد.....

اد/محمد شوقى..

نموذج رقم (12)

جامعة / أكاديمية : بنها.....
كلية / معهد : .الطب.....00.....
قسم : طب ورعايه الحالات الحرجه

توصيف مقرر دراسي Basic of critical care Medicine

1- بيانات المقرر		
الفرقة / المستوى : First Part of Master of Science in Critical Care Medicine	اسم المقرر : Basic of critical care Medicine	الرمز الكودي : CCM607
عدد الوحدات الدراسية : نظري <input type="text"/> 1 عملي <input type="text"/>	التخصص Master of Science in Critical Care Medicine	

-To teach
and learn high level of clinical skills, in addition to update medical knowledge as well as
clinical experience and competence in the area of
intensive care medicine.
2- Provide candidates with fundamental knowledge of intensive care medicine as regards;
dealing with critically ill patient.

3-المستهدف من التدريس:

2a1- Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions:

- 1- Indications of admission to ICU
- 2-Invasive& noninvasive assessment of arterial blood gases
- 3-Nutrition & Malnutrition in the Critically ill Patient
- 4-Mention the principles of Mechanical ventilation:-
 - A-Objectives of mechanical ventilation
 - B- Indications of mechanical ventilation
 - C-Modes and settings of mechanical ventilation
 - D-Weaning from mechanical ventilation
 - E-Complications of mechanical ventilation
- 5-Airway management
- 6-Central venous pressure and pulmonary artery wedge pressure.
- 6-Infection in ICU:
 - A-Ventilator associated pneumonia
 - B-Sepsis syndrome.
 - C-Empirical antibiotic therapy.

أ- المعلومات
والمفاهيم:

2a2- State update and evidence based Knowledge and ventilatory strategies in sepsis and ARDS.

2a3- . Memorize the facts and principles of the relevant basic and clinically supportive sciences related to critical care medicine.

2a4- Mention the basic ethical and medicolegal principles relevant that should be applied in practice and are to intensive care unites.

<p>2a5- Mention the basics and standards of quality assurance to ensure good clinical practice in the field of critical care medicine.</p> <p>2a6- Mention the ethical and scientific principles of medical research methodology.</p> <p>2a7- State the impact of common health problems in the field of Intensive Care Medicine on clinical practice improves these <i>problems</i>.</p>	<p>أ- المعلومات والمفاهيم:</p>
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<p>2.d.1 Perform practice-based improvement activities using a systematic methodology</p> <p>2 .d 2. Appraises evidence from scientific studies.</p> <p>2.d.3 Conduct epidemiological Studies and surveys.</p> <p>2.d.4 Facilitate learning of junior students and other health care professionals including their evaluation and assessment.</p>	<p>د - المهارات العامة :</p>
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- . **Management of the elderly Patient in the ICU.**
- . **Care of Patients with environmental Injuries.**
 - Heat Stroke
 - Hypothermia.
 - Electric Shock.
 - Organophosphorous poisoning.
 - Disorders Fluids- Fluid therapy.
 - Invasive& noninvasive assessment of arterial blood Gases.
 - Acid base status.
 - Hypoxaemia and Hypercapnia.
 - Pulse oximetry.
 - The most common electrolyte disorders:
 - Hypokalemia, Hypomagnesemia, Hyponatremia , Hypocalcaemia.
 - Nutrition & Malnutrition in the Critically ill Patient.
 - Basic and advanced life support.
 - Vascular access.
 - Monitoring of various body function.
 - Airway management
 - Infection in ICU
 - Mechanical ventilation.
 - ARDS.
 - Sepsis.
 -

<p>Modified Lectures Small group discussions . Case presentation</p>	<p>5- أساليب التعليم والتعلم</p>						
	<p>6- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة</p>						
<p>7- تقويم الطلاب :</p>							
<p><u>ATTENDANCE CRITERIA:</u> .</p> <p><u>Assessment TOOLS:</u></p> <table border="1" data-bbox="240 1060 1024 1402"> <thead> <tr> <th data-bbox="240 1060 738 1104">Purpose (ILOs)</th> <th data-bbox="738 1060 1024 1104">Tool</th> </tr> </thead> <tbody> <tr> <td data-bbox="240 1104 738 1234">To assess knowledge and understanding and intellectual skills</td> <td data-bbox="738 1104 1024 1234">Written examination</td> </tr> <tr> <td data-bbox="240 1234 738 1402">To assess knowledge and understanding and intellectual skills and how to make a decision.</td> <td data-bbox="738 1234 1024 1402">Oral examination</td> </tr> </tbody> </table>	Purpose (ILOs)	Tool	To assess knowledge and understanding and intellectual skills	Written examination	To assess knowledge and understanding and intellectual skills and how to make a decision.	Oral examination	<p>أ- الأساليب المستخدمة</p>
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To assess knowledge and understanding and intellectual skills	Written examination						
To assess knowledge and understanding and intellectual skills and how to make a decision.	Oral examination						
<p><u>TIME SCHEDULE:</u></p> <table border="1" data-bbox="240 1472 1010 1560"> <thead> <tr> <th data-bbox="240 1472 638 1516">Month</th> <th data-bbox="638 1472 1010 1516">Exam</th> </tr> </thead> <tbody> <tr> <td data-bbox="240 1516 638 1560">April or Octobar</td> <td data-bbox="638 1516 1010 1560">1- First exam</td> </tr> </tbody> </table>	Month	Exam	April or Octobar	1- First exam	<p>ب- التوقيت</p>		
Month	Exam						
April or Octobar	1- First exam						

<u>Weighting System:</u>		ج- توزيع الدرجات
Marks allocated	Examination	
100	a- Written	
50	b- Oral	
150	Total	
- Passing grades are: EXCELLENT >85%, VERY GOOD 75- <85%, GOOD 65- <75% and FAIR 60- <65%.		
8- قائمة الكتب الدراسية والمراجع :		
		أ- مذكرات
*Paul L Marino:The ICU Book. Lectures notes		ب- كتب ملزمة
Textbook of critical care (Shoemaker). Intensive care medicine(Irwin and Rippe)		ج- كتب مقترحة
<u>Periodicals, Web sites,</u> *American journal of respiratory &critical care medicine. www.fraca.co.uk		د - دوريات علمية أو نشرات ... الخ

أستاذ المادة :اد/أيهاب عبد الرحمن رئيس مجلس القسم العلمي : .اد/خالد سلام

نموذج رقم (12)

جامعة / أكاديمية : بنها.....
كلية / معهد : .الطب البشري.....
قسم : طب ورعايه الحالات الحرجه

توصيف مقرر دراسي Advanced critical care Medicine

1- بيانات المقرر		
الفرقة / المستوى : second Part of Master of Science in Critical Care Medicine	اسم المقرر : Advanced critical care Medicine	الرمز الكودي : CCM608
عدد الوحدات الدراسية : نظري <input type="text"/> 1 عملي <input type="text"/>	التخصص Master of Science in Critical Care Medicine	

1-To enable candidates to keep with national standards of patients care by teaching high level of clinical skills, bedside skills, in addition to update medical knowledge as well as clinical experience and competence in the area of critical and intermediate care units , besides dealing with emergent cases emergency unit and enabling the candidates of making appropriate referrals to a sub-specialist.

2-Provide candidates with fundamental knowledge in critical care unit as regards; dealing with critically ill patients, ICU equipments, techniques, indications, contraindications and training skills of different critical care techniques.

3Enable the candidates how to perform the core investigations and procedures required in Critical Care medicine.

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هدف

المقرر

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3-المستهدف من التدريس:

Unit (Module)1 Cardiology critical care unit

ب- المعلومات
والمفاهيم:

2a1-Describe the etiology, clinical picture, diagnosis of:

- Acute coronary syndrome.
- Hypertensive urgency and emergencies.
- Pericardial tamponade.
- Cardiogenic shock.

2a2-Mention the principles of Cardiac rhythm disturbance .

2a3-Memorize the facts and principles of the relevant.

clinically supportive sciences related coronary critical care.

2a4-

Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to related to coronary critical care.

2a5-Mention the basics and standards of quality assurance to ensure good clinical practice in the field of general medicine

2a6-State the impact of common health problems related to emergencies on the society and how good clinical practice improve these problems.

Unit (Module)2 Hepatology and Gastroenterology

critical care

2a1-Describe the etiology, clinical picture, diagnosis of:

- Hepatic encephalopathy.
- GIT bleeding. .
- Fulminant hepatitis..
- Acute Abdomen.

2a2-Mention the principles of :

- Management of hypovolemic shock.
- Fluid therapy.
- Blood transfusion.
- Central venous line placemen.
- Airway management.
- Endotracheal intubation.
- Hemodynamic monitoring.

2a3-Memorize the facts and principles of the relevant.

clinically supportive sciences related gastrointestinal critical care.

2a4Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to related to gastrointestinal critical care.

2a5-Mention the basics and standards of quality assurance to ensure good clinical practice in the field of gastrointestinal critical care.

2a6-State the impact of common health problems related to gastrointestinal critical care.on the society and how good clinical practice improve these problems.

ت- المعلومات
والمفاهيم:

Unit (Module)3 Nephrology critical care unit

- المعلومات
والمفاهيم:

2a1-Describe the etiology, clinical picture, diagnosis of:

- Acute renal failure
- uremic encephalopathy. .
- dialysis complications

2a2-Mention the principles of :

- Acid base disorders.
- The most common electrolyte disorders.

2a3-Memorize the facts and principles of the relevant.

clinically supportive sciences related nephrology critical care

2a4Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to related to nephrology critical care.

2a5-Mention the basics and standards of quality assurance to ensure good clinical practice in the field of nephrology critical care.

2a6-State the impact of common health problems related to nephrology critical care. on the society and how good clinical practice improve these problems.

Unit (Module)
4 Endocrinology and Diabetic critical care unit

- المعلومات
والمفاهيم:

2a1-Describe the etiology, clinical picture, diagnosis of:

- Acute complications of diabetes(DKA, hypoglycemia, lactic acidosis, NKH coma)
- Thyrotoxic crisis.
- Myxoedema coma.
- Adissonian crisis.

2a2-Mention the principles of :

- Acid base disorders.
- The most common electrolyte disorders.

2a3-Memorize the facts and principles of the relevant.

clinically supportive sciences related endocrine critical care

2a4Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to related to endocrine critical care.

2a5-Mention the basics and standards of quality assurance to ensure good clinical practice in the field of endocrine critical care.

2a6-State the impact of common health problems related to endocrine critical care. on the society and how good clinical practice improve these problems.

Unit (Module) 5 Hematology critical care unit

- المعلومات
والمفاهيم:

2a1-Describe the etiology, clinical picture, diagnosis of:

- Sickle cell crisis , aplastic crisis and heamolytic crisis.
- Neutropenic fever.
- Anemic heart failure.

2a2-Mention the principles of :

- Chemotherapeutic protocols of different heamatological malignancies.
- Blood transfusion.
- Hemodynamic monitoring.

2a3-Memorize the facts and principles of the relevant.

clinically supportive sciences related hematology critical care

2a4Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to related to hematology critical care.

2a5-Mention the basics and standards of quality assurance to ensure good clinical practice in the field of hematology critical care.

<p>2a6-State the impact of common health problems related to hematology critical care. on the society and how good clinical practice improve these problems.</p>	
<p style="text-align: center;">Unit (Module) 6 Chest critical care unit</p> <p>2a1-Describe the etiology, clinical picture, diagnosis of:</p> <ul style="list-style-type: none"> -Acute severe Bronchial asthma - Status asthmaticus. - Respiratory failure (acute and chronic). - Pneumothorax. <p>2a2-Mention the principles of :</p> <ul style="list-style-type: none"> - OXYGEN THERAPY -Intubation and CEPAP. -Mechanical ventilation (non invasive and invasive) <p>2a3-Memorize the facts and principles of the relevant. clinically supportive sciences related Chest critical care</p>	<p>- المعلومات والمفاهيم:</p>
<p>132</p>	

2a4 Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to related to Chest critical care.

2a5-Mention the basics and standards of quality assurance to ensure good clinical practice in the field of Chest critical care.

2a6-State the impact of common health problems related to Chest critical care. on the society and how good clinical practice improve these problems.

2.d.1 Perform practice-based improvement activities using a systematic methodology

2 .d. Appraises evidence from scientific studies.

2.d.3 Conduct epidemiological Studies and surveys.

2.d.4 Facilitate learning of junior students and other health care professionals including their evaluation and assessment.

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د - المهارات
العامّة :

**Unit (Module)8 Rheumatology
critical care**

أ- المعلومات
والمفاهيم:

2a1-Describe the etiology, clinical picture, diagnosis of:

- Lupus nephritis .
- Lupus cerebritis
- Other rheumatological emergencies.
- Sun stroke .
- Food and drug poisoning.
- scleroderma and Reynaud's phenomena.

2a2-Mention the principles of :

- Complications of SLE
- Hypo and hyperthermia.

2a3-Memorize the facts and principles of the relevant.

clinically supportive sciences related rheumatologically critical care.

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**2a4Mention the basic ethical and medicolegal principles that should be applied in p
ice and are**

relevant to related to gastrointestinal critical care.

2a5-Mention the basics and standards of quality

assurance to ensure good clinical practice in the field of rheumatologically critical ca

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2a6-State the impact of common health problems related to

**rheumatologically critical care.on the society and how good clinical
practice improve these problems.**

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**Unit (Module)
7 Neurology critical care unit**

أ- المعلومات
والمفاهيم:

2a1-Describe the etiology, clinical picture, diagnosis of:

- Cerebro vascular stroke
- Status epilepticus
- Care of comatosed patient

2a2-Mention the principles of :

- Brain Imaging (CT and MRI).
- Glasgow coma scale.

2a3-Memorize the facts and principles of the relevant.

clinically supportive sciences related endocrine critical care

2a4Mention the basic ethical and medicolegal principles that should be applied in practice and are

relevant to related to neurological critical care.

2a5-Mention the basics and standards of quality assurance to ensure good clinical practice in the field of neurological critical care.

2a6-State the impact of common health problems related to neurological critical care. on the society and how good clinical practice improve these problems.

<p>2.b.1- Correlates the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of coronary, chest, hepatology, endocrinology, hematology, neurology, nephrology critical care .</p> <p>2.b.2- Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related to coronary, chest, hepatology, endocrinology, hematology, neurology, nephrology critical care .</p> <p>2.b.3- Design and present cases , seminars in common problem.</p> <p>2.b.4- Formulate management plans and alternative decisions in different situations in the field of the general diseases related to coronary, chest, hepatology, endocrinology, hematology, neurology, nephrology critical care .</p> <p>.</p> <p>.</p>	<p>ب-</p> <p>المهارات</p> <p>الذهنية:</p>
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<p>Unit (Module)1 Cardiology critical care unit</p> <p>2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.</p> <p>2.c.2- Order the following non invasive/invasive diagnostic procedures:</p> <ul style="list-style-type: none"> -Routine appropriate Lab investigations. - ECG. - Echocardiography. - Cardiac Catheterization. <p>2.c.3 Interpret the following non invasive/invasive diagnostic procedures:</p> <ul style="list-style-type: none"> -Routine appropriate Lab investigations -X ray chest -cardiac markers -ECG -Echocardiography -Cardiac Catheterization <p>2.c.4- Perform the following non invasive/invasive Diagnostic and therapeutic procedures:</p> <ul style="list-style-type: none"> - Cardiopulmonary resuscitation -Pericardiocentesis -ECG -Echocardiography -Cardiac Catheterization -Defibrillation and cardioversion <p>2.c.5 Prescribe the following non invasive/invasive therapeutic procedures:</p>	<p>ج- المهارات المهنية</p> <p>الخاصة بالمقرر :</p>
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<p>2.c.6 Carry out patient management plans for common conditions related to Coronary care.</p> <p>2.c.7 Provide health care services aimed at preventing health problems related to coronary care like:</p> <p style="padding-left: 40px;">a. Myocardial ischemia syndromes like chronic stable angina, acute coronary syndromes coronary artery spasm, and others.</p> <p style="padding-left: 40px;">b. Hypertension and hypertensive heart diseases.</p> <p>2.c.8 Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records).</p>	<p>ج- المهارات المهنية</p> <p>الخاصة بالمقرر :</p>
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Unit (Module) 2 Hepatology and Gastroenterology critical care unit

2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.

2.c.2- Order the following non invasive/invasive diagnostic procedures:

- Routine appropriate Lab investigations.
- liver function.
- Liver biopsy.
- Ultrasonography.
- Endoscopy.

2.c.3 Interpret the following non invasive/invasive diagnostic procedures:

- Routine appropriate Lab investigations.
- Abd ultrasound.
- Endoscopy.

2.c.4- Perform the following non invasive/invasive Diagnostic and therapeutic procedures:

- Abdominal US
- Nasogastric tube and sungestaken tube

2.c.5 Prescribe the following non invasive/invasive therapeutic procedures:

ج-

المهارات

المهنية

الخاصة

بالمقرر :

2.c.6 Carry out patient management plans for common conditions related to gastrointestinal emergency.

2.c.7 Provide health care services aimed at preventing health problems related to gastrointestinal emergency.

2.c.8 Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records).

ج-

المهارات

المهنية

الخاصة

بالمقرر :

Unit (Module) 3 Nephrology critical care unit

2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.

2.c.2- Order the following non invasive/invasive diagnostic procedures:

- Routine appropriate Lab investigations.
- Blood urea and serum creatinine
- Hemodialysis
- Peritoneal dialysis.

2.c.3 Interpret the following non invasive/invasive diagnostic procedures:

- Routine appropriate Lab investigations.
- Abd ultrasound.
- chest X ray

2.c.4- Perform the following non invasive/invasive Diagnostic and therapeutic procedures:

- Abdominal US
- Blood gases
- Dialysis

2.c.5 Prescribe the following non invasive/invasive therapeutic procedures:

Proper correction of electrolyte and acid base disturbance.

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المهارات

المهنية

الخاصة

بالمقرر :

2.c.6 Carry out patient management plans for common conditions related to Nephrology Critical care .

2.c.7 Provide health care services aimed at preventing health problems related to Nephrology Critical care .

2.c.8 Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records).

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المهارات

المهنية

الخاصة

بالمقرر :

<p>Unit (Module) 4 Endocrinology and Diabetic critical care unit</p> <p>2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.</p> <p>2.c.2- Order the following non invasive/invasive diagnostic procedures:</p> <ul style="list-style-type: none"> -Routine appropriate Lab investigations. - Blood glucose, acetone in urine -Thyroid function. --Insulin pump. <p>2.c.3 Interpret the following non invasive/invasive diagnostic procedures:</p> <ul style="list-style-type: none"> -Routine appropriate Lab investigations. - Blood glucose, acetone in urine -Thyroid function <p>2.c.4- Perform the following non invasive/invasive Diagnostic and therapeutic procedures:</p> <ul style="list-style-type: none"> -Blood sugar estimation. -Urinalysis. -Insulin administration. <p>2.c.5 Prescribe the following non invasive/invasive therapeutic procedures:</p> <p>Prescribe proper treatment for conditions mentioned in A.A</p>	<p>ج-</p> <p>المهارات المهنية الخاصة بالمقرر :</p>
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2.c.6 Carry out patient management plans for common conditions related to Endocrinal emergencies.

2.c.7 Provide health care services aimed at preventing health problems related to Endocrinal emergencies.

2.c.8 Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records).

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المهارات

المهنية

الخاصة

بالمقرر :

<p>Unit (Module) 5 Hematology critical care unit</p> <p>2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.</p> <p>2.c.2- Order the following non invasive/invasive diagnostic procedures:</p> <ul style="list-style-type: none"> -Routine appropriate Lab investigations. - Blood picture. -Bone marrow aspirate. <p>2.c.3 Interpret the following non invasive/invasive diagnostic procedures:</p> <ul style="list-style-type: none"> -Routine appropriate Lab investigations. <p>2.c.4- Perform the following non invasive/invasive Diagnostic and therapeutic procedures:</p> <ul style="list-style-type: none"> -Plasmapheresis. <p>2.c.5 Prescribe the following non invasive/invasive therapeutic procedures:</p> <p>Prescribe proper treatment for conditions mentioned in A.A</p>	<p>ج-</p> <p>المهارات المهنية الخاصة بالمقرر :</p>
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2.c.6 Carry out patient management plans for common conditions related to Hematology emergencies.

2.c.7 Provide health care services aimed at preventing health problems related to Hematology emergencies.

2.c.8 Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records).

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المهارات

المهنية

الخاصة

بالمقرر :

<p>Unit (Module) 6 Chest critical care unit</p> <p>2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.</p> <p>2.c.2- Order the following non invasive/invasive diagnostic procedures:</p> <ul style="list-style-type: none"> -Routine appropriate Lab investigations. <ul style="list-style-type: none"> - Blood gases. -Chest X-ray. -Pulmonary function test. -Intubation , CPAP,Mechanical ventilation <p>2.c.3 Interpret the following non invasive/invasive diagnostic procedures:</p> <ul style="list-style-type: none"> -Routine appropriate Lab investigations. <ul style="list-style-type: none"> - Blood gases. -Chest X-ray. <p>2.c.4- Perform the following non invasive/invasiv Diagnostic and therapeutic procedures:</p> <ul style="list-style-type: none"> -Emergency airway management - Percutaneous tracheotomy. -Endotracheal suction <p>2.c.5 Prescribe the following non invasive/invasive therapeutic procedures:</p> <p>Prescribe proper treatment for conditions mentioned in A.A</p>	<p>ج-</p> <p>المهارات المهنية الخاصة بالمقرر :</p>
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2.c.6 Carry out patient management plans for common conditions related to chest.

2.c.7 Provide health care services aimed at preventing health problems related to chest.

2.c.8 Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records).

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المهارات

المهنية

الخاصة

بالمقرر :

<p>Unit (Module) 7 Neurology critical care unit</p> <p>2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.</p> <p>2.c.2- Order the following non invasive/invasive diagnostic procedures:</p> <ul style="list-style-type: none"> -Routine appropriate Lab investigations. - CT BRAIN and MRI. . -CSF. --Ryle and urinary catheter. <p>2.c.3 Interpret the following non invasive/invasive diagnostic procedures:</p> <ul style="list-style-type: none"> -Routine appropriate Lab investigations. CT BRAIN and MRI. . -CSF. <p>2.c.4- Perform the following non invasive/invasive Diagnostic and therapeutic procedures:</p> <ul style="list-style-type: none"> -CSF. -Emergency airway management <p>2.c.5 Prescribe the following non invasive/invasive therapeutic procedures:</p> <p>Prescribe proper treatment for conditions mentioned in A.A</p>	<p>ج-</p> <p>المهارات المهنية الخاصة بالمقرر :</p>
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2.c.6 Carry out patient management plans for common conditions related to neurology emergencies.

2.c.7 Provide health care services aimed at preventing health problems related to neurology emergencies.

2.c.8 Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records).

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المهارات

المهنية

الخاصة

بالمقرر :

<p>Unit (Module) 8 Rheumatology critical care unit</p> <p>2.c.1- Obtain proper history and examine patients in caring and respectful behaviors.</p> <p>2.c.2- Order the following non invasive/invasive diagnostic procedures:</p> <ul style="list-style-type: none"> -Routine appropriate Lab investigations. - CT Brain and MRI . -ESR,CRP. -Immunological profile . -Plasmapheresis. <p>2.c.3 Interpret the following non invasive/invasive diagnostic procedures:</p> <ul style="list-style-type: none"> -Routine appropriate Lab investigations. - CT Brain and MRI . -ESR,CRP. -Immunological profile . -Plasmapheresis. <p>2.c.4- Perform the following non invasive/invasive Diagnostic and therapeutic procedures:</p> <ul style="list-style-type: none"> -Echocardiography -ECG. -Plasmapheresis <p>2.c.5 Prescribe the following non invasive/invasive therapeutic procedures:</p> <p>Prescribe proper treatment for conditions mentioned in A.A</p>	<p>ج-</p> <p>المهارات المهنية الخاصة بالمقرر :</p>
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2.c.6 Carry out patient management plans for common conditions related to Rheumatology emergencies.

2.c.7 Provide health care services aimed at preventing health problems related to Rheumatology emergencies.

2.c.8 Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records).

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المهارات

المهنية

الخاصة

بالمقرر :

Weighting System:

Marks allocated	Examination
2 exams each 375	a- Written
375	b- Oral
375	d- clinical
1500	Total

توزيع
الدرجات

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