

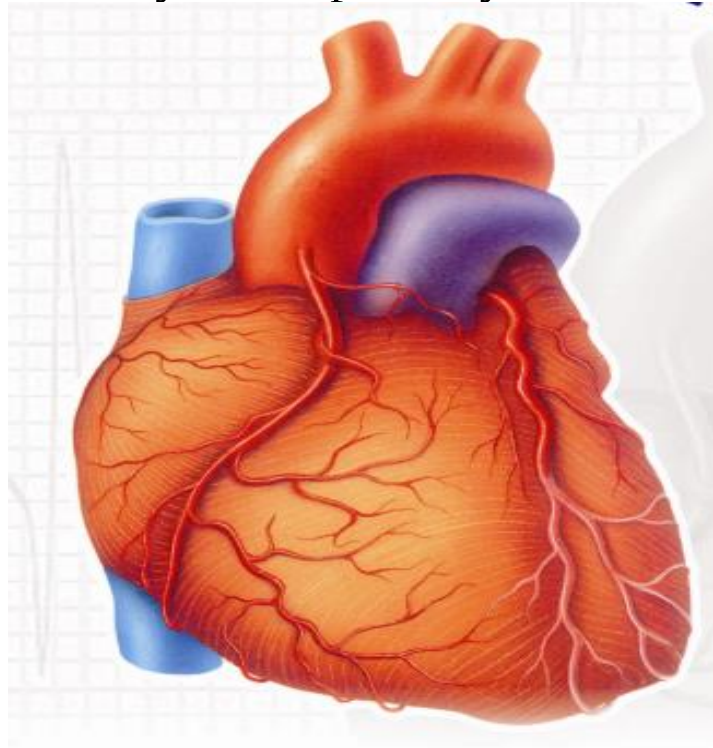


كلية الطب
وحدة ضمان الجودة



Faculty of Medicine
Cardiology Department

Logbook For Candidates of Master Degree in Cardiovascular Medicine by credit point bylaws



2022-2023



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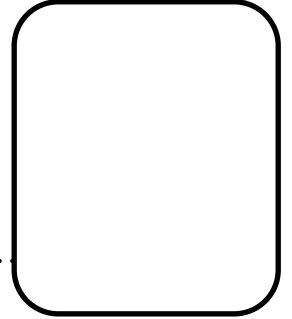


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Personal photo



Name.....

Date of birth.....

Address.....

Place of work.....

Telephone..... Mobile phone(s).....

E-mail.....

Name of hospital	Period of work	Hospital director signature

Academic Information

MBBCh...../...../..... University Grade

Grade of Internal Medicine course on graduation

Others...../...../..... University

...../...../..... University



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بيانات شخصية عن المتدرب

الإسم:

العنوان:

رقم التليفون:

رقم المحمول:

البريد الإلكتروني:

تاريخ التسجيل لدرجة الماجستير



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*** Aim of the activities book**

- To provide one source of evidence for the assessment committee that you attained the desired level of competency required to gain the award.
- In this book you will document all clinical, academic and other experiences and skills you attained during your training.

Sections of the book

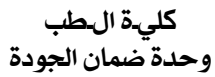
For each module / course / rotation

You should fill the following sections:-

A- Clinical case log

1- You will first find list with all required cases in the concerned module and the minimum number of cases you must get exposed to and level of participation you should achieve for each type of cases.

2- You should record all clinical cases in the module and each case should be signed by your trainer.



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2- Clinical case presentation log

Record the cases related to the module that you have presented in a seminar of the activity.

3- Procedures / operations log

1- You will find a list for required procedure, diagnostic – therapeutic operations and level of desired performance you should achieve at the end of training.

2- You will find empty tables to write down the procedure, your level of participation and date and signature of supervisor.

4- Rotation / attendance proof

You should have evidence of achievement the required training hours within each module.
For the whole program fill the following sections.

1- Academic activities

A- Document all academic activities e.g. lecture, journal clubs, workshops, conference, services attended. This documentation should include the level of participation "attendance, preparation, presentation,....."

2- Academic achievements

A- Document all outcomes you achieved in the field of:-

- Audit participation
- Research "clinical trial" participation.
- Evidence- based medicine "generation of guidelines" protocols
-

3- Formative assessment log

This document all types of formative assessment attended e.g.:-

- Mini clinical examination
- Quizes
-



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1 - Program aims

1. To enable candidates to keep with international standards of cardiac 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 cardiovascular medicine, cardiac emergency, non invasive cardiac investigations and invasive cardiology and enabling the candidates of making appropriate referrals to a sub-specialist.
2. Provide residents with fundamental knowledge of cardiac intensive care medicine as regards; dealing with critically ill cardiac patients, CCU equipments, techniques, indications, contraindications and training skills of different cardiac care techniques.
3. To introduce candidates to the basics of scientific medical research.
4. To enable them to start professional careers as specialists in Egypt.
 - Making them recognized as specialists abroad.
 - Enabling them to pursue higher studies and subspecialties.
 - Enabling them to understand and get the best of published scientific research and do their own.



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Curriculum Structure:

Duration of program 36 months divided into

Program Structure

Program Time Table

Duration of program 3 years maximally 5 years divided into

Part 1

Program-related basic science courses and ILOs + elective courses

Students are allowed to set the exams of these courses after 12 months from applying to the M Sc degree.

Thesis

For the M Sc thesis;

MSc thesis subject should be officially registered within 6 months from application to the MSc degree,

Discussion and acceptance of the thesis should not be set **before 12 months** from registering the M Sc subject;

It could be discussed and accepted before passing the second part of examination

Part 2

Program –related speciality science courses and ILOs

Students are not allowed to set the exams of these courses before 3 years from applying to the MSc degree.

N.B. Fulfillment of 80% of the requirements in each course as described in the template and registered in the log book is a pre-request for candidates to be assessed and undertake part 1 and part 2 examinations.



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First Part

- Anatomy.
- Physiology & Biochemistry.
- Pathology.
- Pharmacology.
- Principles of Cardiology.
- Internal Medicine.



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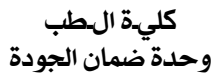
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Course 1: Anatomy

Requirement

- Credit point: 2 CP for didactic teaching (lectures, tutorial, seminars).
- Attend for at least 80% of didactics.

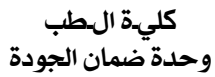
Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Anatomy	2 CP	Anatomy department	20 hours	100%
	0.5 CP		5 hours - Embryology of heart and arch of aorta (5 hours)	25%
	1.5 CP		15 hours	75%
	0.2 CP		- Surface anatomy of heart and great vessels, brachiocephalic vessels, and pulmonary circulation.(2 hours)	10%)
	0.4 CP		- Anatomy of the heart and anatomy of cardiac chambers (4 hours)	20%
	0.3 CP		- Anatomy of coronary circulation (3 hours).	15%
	0.3 CP		- Anatomy of brachiocephalic vessels with special stress on access to CVP (3 hours)	15%
Student signature	0.3 CP		- Anatomy of aorta, pulmonary circulation and peripheral vessels (3 hours)	15%
			Principle coordinator signature	Head of the department signature



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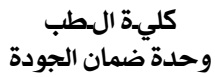
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Course 2: Physiology & Biochemistry

Requirement

- Credit point: 2 CP for didactic teaching (lectures, tutorial, seminars).
- Attend for at least 80% of didactics.
- It is divided into units (modules):
 - Module 1: Physiology.
 - Module 2: Biochemistry.

Course 2; Module 1: (Physiology)

Requirement

- Credit point: 1.0 CP for didactic teaching (lectures, tutorial, seminars).
- Attend for at least 80% of didactics

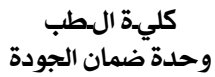


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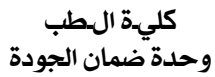


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Name of the module	Credit points	Responsible department	Attendance	Percentage of Achieved points
Physiology	1.0CP	Physiology department	10 hours	100%
	0.8 CP		Circulation (8 hours) * Physiological principles of cardiac muscles.(0.5 hour) * Heart rate and its regulation (one hour) * Blood pressure and its regulation (one hour) * Cardiac cycle (0.5 hour) * Cardiac output and its regulation (0.5 hour) * Innervations of the heart (0.5 hour) * Heart sounds (one hour) * Jugular venous pressure (0.5 hour) * Coronary circulation (0.5 hour) * Haemorrhage and its compensatory mechanisms (0.5 hour) * ECG and its clinical significance (0.5 hour) * Oedema and lymphatic system (0.5 hour) * Venous and capillary circulation (0.5 hour)	80%
	0.1 CP		Respiration (one hour) * Acid-base balance (0.5 hour) * Hypoxia (0.5 hour)	10%
	0.1 CP		Blood (one hour) * Mechanisms of blood coagulation (0.5 hour) * Some clinical conditions due to abnormalities in blood coagulation (0.5 hour)	10%
Student signature			Principle coordinator signature	Head of the department signature



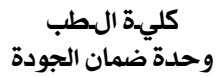
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Physiology didactics

- ** Your role:-**



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Course 2; Module 2: (Biochemistry).

Requirement

- Credit point: 1.0 CP for didactic teaching (lectures, tutorial, seminars).
Attend for at least 80% of didactics

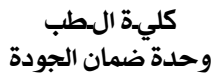


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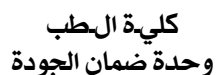
Name of the module	Credit points	Responsible department	Attendance	Percentage
Biochemistry	1.0 CP	Medical Biochemistry department	10 hours	100%
	0.15 CP		- Diabetes Mellitus (1.5 hours)	15%
	0.15 CP		- Lipid metabolism (1.5 hours)	15%
	0.15 CP		- Dyslipoproteinemias (1.5 hours)	15%
	0.15 CP		- Biochemistry of receptors and mechanisms of transmembrane signaling: Catecholamines Acetylcholine (1.5 hours)	15%
	0.1 CP		- Eicosanoids (prostaglandins and their biological functions) (one hour)	10%
	0.1 CP		- Leukotrienes (one hour)	10%
	0.1 CP		- Oxygen free radicals (one hour)	10%
	0.1 CP		- Storage diseases of the heart (one hour)	10%
Student signature			Principle coordinator signature	Head of the department signature



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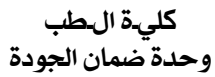
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Course 3 (Pathology)

Requirement

- Credit point: 2 CP for didactic teaching (lectures, tutorial, seminars).
- Attend for at least 80% of didactics.

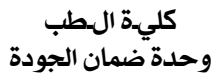


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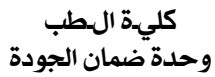
Name of the course	Credit points	Responsible department	Attendance	Percentage
Pathology	2 CP	Pathology department	20 hours	100%
	0.5 CP		5 hours	25%
	(0.1CP for each topic)		<i>General Pathology of (one hour for each topic)</i>	5% for each topic
			- Inflammation	
			- Disturbance of circulation including ischaemia and thrombosis	
			- Immunity	
			- Infection.	
			- Pathology of tumors	
	1.5 CP		15 hours	75%
			<i>Special pathologic details of Cardiovascular System including:</i>	
	0.3 CP		- Atherosclerosis and ischaemic heart diseases (3 hours)	15%
	0.3 CP		- Heart failure (3 hours)	15%
	0.2 CP		- Hypertension (2 hours)	10%
	0.2 CP		- Diseases of the myocardium and pericardium (2 hours)	10%
	0.15 CP		- Rheumatic fever (1.5 hours)	7.5%
	0.15 CP		- Infective endocarditis (1.5 hours)	7.5%
Student signature	0.1 CP		- Cor pulmonale. (one hour)	5%
	0.1 CP		- Cardiac tumors (one hour)	5%
			Principle coordinator signature	Head of the department signature



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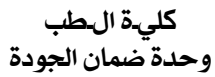
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Course 4: (Pharmacology).

Requirement

- Credit point: 2 CP for didactic teaching (lectures, tutorial, seminars).
- Attend for at least 80% of didactics.

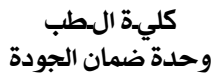


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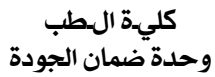
Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Pharmacology	2 CP	Pharmacology department	20 hours	100%
	0.2 CP		- Anti-hypertensives and diuretics (2 hours)	10%
	0.2 CP		- Inotropics and digitalis (2 hours)	10%
	0.2 CP		- Coronary vasodilators (2 hours)	10%
	0.2 CP		- Anti-arrhythmics (2 hours)	10%
	0.2 CP		- Anti-dyslipidemics (2 hours)	10%
	0.2 CP		- Anti-Diabetics (2 hours)	10%
	0.2 CP		- Sympathetic and parasympathetic drugs (2 hours)	10%
	0.2 CP		- Anti-coagulants (2 hours)	10%
	0.15 CP		- Anti-platelets (1.5 hours)	7.5%
	0.15 CP		- Fibrinolytics (1.5 hours)	7.5%
	0.1 CP		- Other developing drugs in CV diseases (one hour)	5%
Student signature			Principle coordinator signature	Head of the department signature



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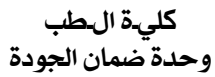
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Course 5: (Principles of Cardiology)

Requirement

- Credit point: 3 CP for didactic teaching (lectures, tutorial, seminars).
- Attend for at least 80% of didactics.

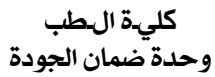


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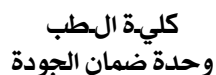
Name of the course	Credit points	Responsible department	Attendance	Percentage
Principles of Cardiology	3 CP	Cardiovascular medicine department	30 hours	100 %
	0.1 CP		- Ultra structure of the heart (one hour)	3.3%
	0.1 CP		- Basics of genetics in cardiology (one hour)	3.3%
	0.1 CP		- Embryology of the heart, great vessels and coronary arteries. (one hour)	3.3%
	0.1 CP		- Anatomy of the heart, great vessels and coronary arteries (one hour).	3.3%
	0.3 CP		- Stress testing modalities in cardiovascular medicine. (3 hours)	10%
	0.3 CP		- Imaging modalities of the heart and cardiac function assessment. (3 hours).	10%
	0.2 CP		- Basic principles of ECG (2 hours).	6.6%
	0.2 CP		- Metabolism of the heart (2 hours)	6.7%
	0.1 CP		- Excitation-contraction coupling. (one hour)	3.3%
	0.2 CP		- Cardiovascular parameters under basal and stressful conditions (2 hours).	6.6%
	0.2 CP		- Conductive system of the heart and the neural control (2 hours).	6.7%
	0.1 CP		- Cardiac cycle and its pharmacological implications (one hours).	3.3%
	0.2 CP		- Cardiac effects of hypoxia, acid-base disturbances and electrolyte imbalances (2 hours).	6.7%
	0.2 CP		- Endothelium function & abnormality (2 hours).	6.6%
	0.2 CP		- Hemostasis, thrombosis, bleeding (2 hours).	6.7%
	0.4 CP		- Cardiac case taking, history and examination (4 hours)	13.3%
Student signature			Principle coordinator signature	Head of the department signature



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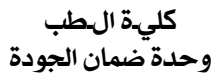
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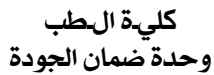
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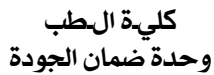
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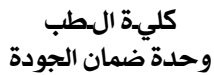


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Course 6: (Internal Medicine).

Requirement

- Credit point: 3 CP for didactic teaching (lectures, tutorial, seminars) 10 CP for training.
- Attend for at least 80% of didactics and training.



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Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Internal medicine	0.5 CP	Internal medicine department	V – Nephrology (5 hours) - Acute and chronic renal failure (2 hours) - Nephritis (one hour) - Nephrotic syndrome (one hour) - Electrolyte disturbances (one hour)	16.6%
	0.2 CP			
	0.1 CP			
	0.1 CP			
	0.1 CP		VI-Neurological diseases (2.5 hours) - Cerebrovascular stroke (one hour) - Myopathy (one hour) - Extrapyramidal disorders (0.5 hour)	8.3%
	0.25 CP			
	0.1 CP			
	0.1 CP		VII-Rheumatology (2.5hours) - Rheumatoid arthritis (one hour) - Systemic lupus erythematosus (one hour) - Scleroderma and other collagen diseases (0.5 hour)	8.3%
	0.05 CP			
Student signature			Principle coordinator signature	Head of the department signature

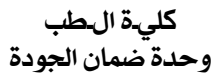


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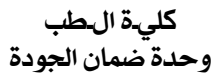
Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Internal Medicine	2 CP	Internal Medicine	2 weeks in Endocrinology unit Log of 20 cases of: a- Diabetes mellitus b- Thyroid diseases c- Adrenal gland disorders d- Obesity	20%
Intermediate care	3 CP	Internal Medicine	3 weeks in intermediate care Log of 10 cases of: - Diabetic coma - Chest diseases with emergency - Cerebrovascular stroke - Competently read and correct blood gases.	30%
Clinical training in Internal Medicine	1 CP	Internal Medicine	1 week in Nephrology Unit Log of 10 cases of: a- Renal failure b- Nephritis c- Nephrotic syndrome	10%
	2 CP	Internal Medicine	2 weeks in Hematology unit Log of 20 cases of: a- Anaemias b- Coagulation disorders	20%
	1 CP	Internal Medicine	1 week in Rheumatology unit Log of 2 cases of : a- Collagen vascular and systemic diseases	10%
	1 CP	Internal Medicine	1 week in GIT Unit Log of 2 cases a- Liver cirrhosis and liver cell failure b- Hepatic coma c- Gastritis and gastroesophageal reflux	10%
Student signature			Principle coordinator signature	Head of the department signature



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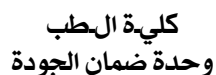
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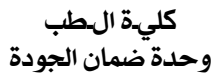
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A- Presentation
B- Organization
C. Attendance



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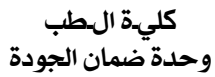
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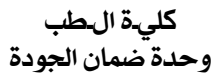
~~C Carry out under supervision~~



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[illegible]

B- Carry out

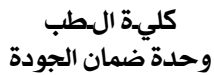


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B- Clinical case presentation log

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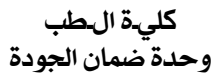
C- Carry out under supervision



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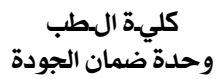
C- Carry out under supervision



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A- Independent performance
B- Performance under supervision
C- Observed



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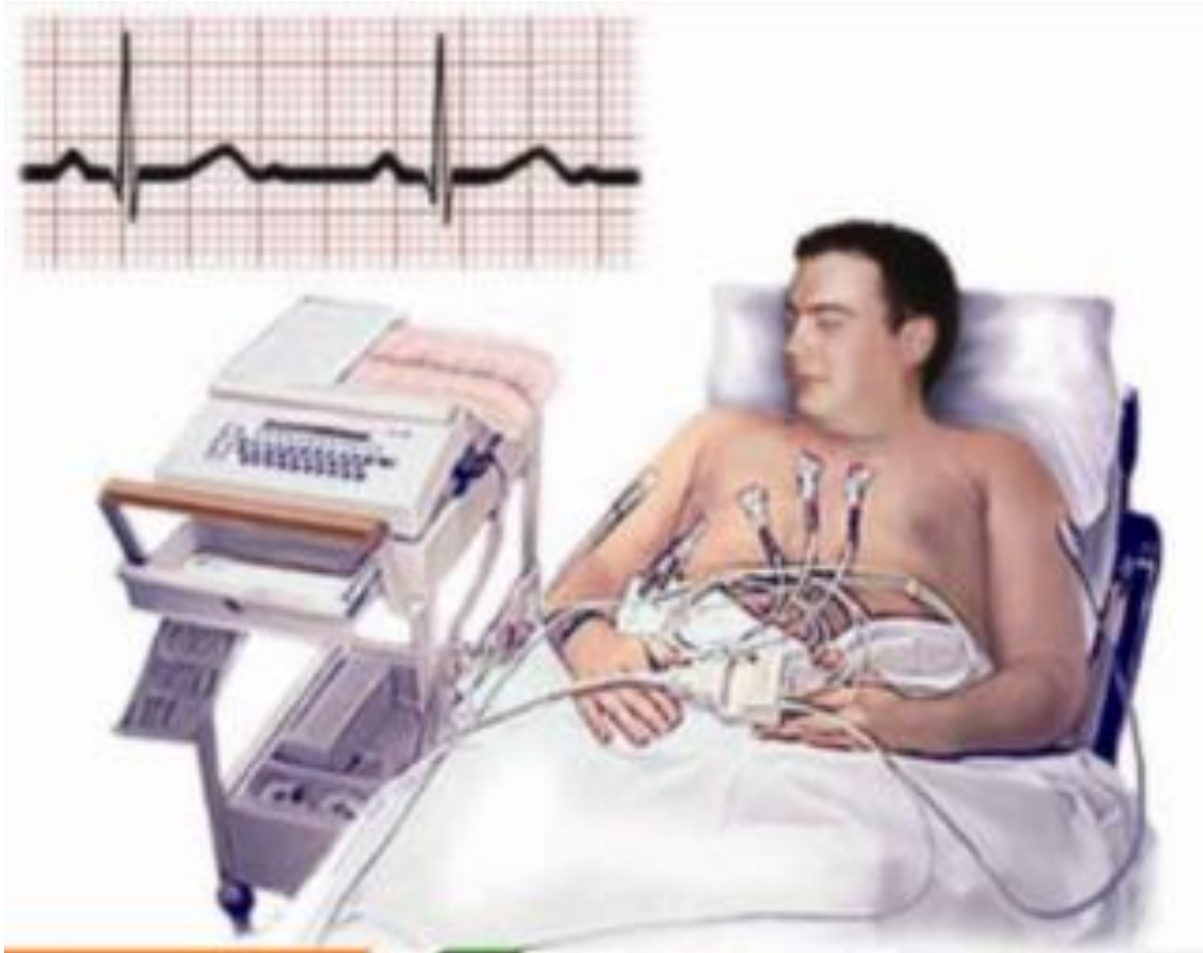


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Patients case log





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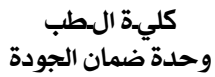


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Course 6 Internal Medicine (10 credit point)

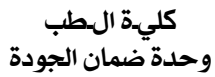
Case	Minimal Number	Case	Minimal Number
Hepatology & Gastroenterology		Endocrinology	
Liver cirrhosis	5	Diabetes mellitus	12
Liver cell failure	5	Thyroid diseases	3
		Obesity	5
Nephrology			
Chronic renal failure	9	Chest Diseases	
Nephrotic syndrome	1	Chronic obstructive airway diseases	5
		Pneumonia	5
Haematology			
Anemia	15	Rheumatology.	
Coagulation disorders	5	Rheumatoid arthritis	1
		Systemic lupus erythematosus	1
Neurological diseases			
Cerebrovascular stroke	5		

The clinical case log should be signed out by a staff member.



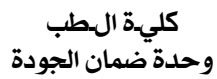
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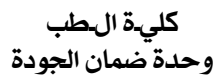
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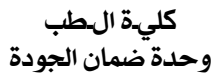
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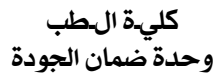
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Second Part

Course 7: Cardiology

Units' Titles' list	% from total Marks	Level (Year)	Core Credit points				
			Didactic		training		Total
			1st	2nd	1st	2nd	
1) Unit 1: Cardiovascular Medicine	40	1,2&3	-	9.6	5	38.4	53
2) Unit 2: Cardiac emergency	40	1,2&3	-	9.6	5	38.4	53
3) Unit 3: Non-invasive cardiac investigations	15	1,2&3	-	3.6	4	14.4	22
4) Unit 4: Diagnostic and interventional cardiac catheterization.	5	3	-	1.2	-	4.8	6
Total No. of Units:	4		-	24	14	96	
			24		110		134



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First Year training

- **Unit 1: Cardiovascular diseases:** 5 CP clinical training
- **Unit 2: Cardiovascular emergencies:** 5 CP clinical training
- **Unit 3: Non-invasive cardiac investigations:** 4 CP clinical training.
- Attendance and achievement of at least 80% of requirements.



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Clinical training	Credit points	Responsible department	Attendance	Percentage
Course7;unit 1: Cardiovascular medicine disease	1.5 CP	Cardiovascular department	- Practice in department with clinical case log of cardiovascular diseases as mentioned below for at least 2 months including history case taking and cardiac assessment skills and related laboratory investigation and findings.	30%
	1 CP		- Attendance of outpatient clinic of cardiovascular disease for at least twice/wk for 8weeks	20%
	1.75 CP		- Attendance of shift night for at least one shift night /wk (2pm-8 am) for at least 2 months.	35%
	0.5 CP		- Attendance of clinical round with staff members for at least 15 wk	10%
	0.25 CP		- Formative assessment	5%
Student signature			Principle coordinator signature	Head of the department signature



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Course 7;Unit 1:Cardiovascular Medicine disease (5 credit point)

Case	Minimal Number	Case	Minimal Number
Cardiovascular medicine disease:		Acyanotic congenital heart disease.	25
<u>Valvular heart disease.</u>			
Infective endocarditis	15	<u>Cardiomyopathy:</u>	
Rheumatic fever	15	Idiopathic dilated cardiomyopathy	15
Chronic valvular dysfunction.	50	Ischaemic cardiomyopathy	50
		Restrictive cardiomyopathy	1
<u>Ischaemic Heart Disease:</u>		Hypertrophic Cardiomyopathy	2
Chronic stable angina.	50	Peripartum cardiomyopathy.	10
Post-myocardial infarction rehab. Case.	50		
Post PCI and/or CABG rehab. Case.	40	<u>Arrhythmias:</u>	
		Supraventricular tachycardia	25
Heart Failure:		Atrial fibrillation and flutter.	25
Chronic heart failure.	50	Ventricular tachycardia and fibrillation.	10
Intractable heart failure	10	Heart Block	25
<u>Congenital heart disease:</u>		<u>Pericardial diseases:</u>	
Cyanotic congenital heart disease.	15	Pericarditis	10
		Pericardial effusion.	10
		Constrictive pericarditis.	1
		<u>Aortic diseases</u>	
		Aortic aneurysm	1
		Dissecting aortic aneurysm	1



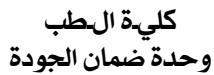
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Course 7; unit 1: Cardiovascular medicine disease (Foll.)

Case	Minimal Number	Case	Minimal Number
<u>Myocardial diseases</u>		Evaluation of a cardiac patient for a non cardiac surgery	5
Myocarditis	5		
		Cardiac diseases during pregnancy	5
Peripheral vascular disease:	10		
		Cardiac affection in other systemic diseases	5
Pulmonary embolism	5		
Vascular cor pulmonale	15		
Hypertension:	50		

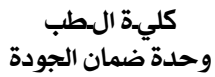


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Clinical Rotation

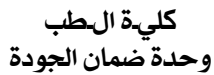
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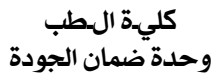
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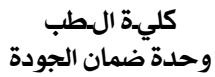
C- Carry out under supervision



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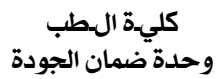
* Level of participation
A- Plan and carry out
B- Carry out
C- Carry out under supervision



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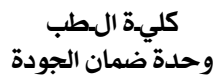
C- Carry out under supervision



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Group A

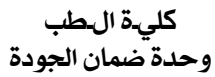
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Group A

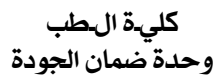
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Group B

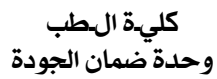
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Group B

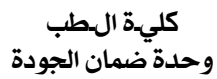
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Group C

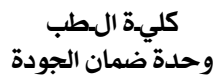
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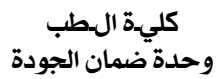
Group C

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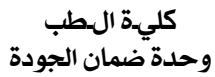
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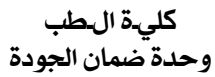
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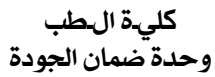
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First: Attendance

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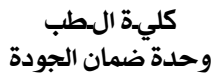


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Second: Case presentation

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A- Group A
B- Group B
C- Group C

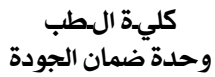


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Post graduate teaching

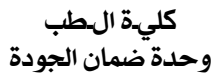
First: lectures

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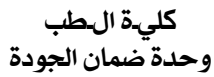
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Cardiology Department

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course 7; unit 2: Cardiovascular emergencies	1.5 CP	Coronary Care Unit and Accident and Emergency Department	- Practice in coronary ICU with clinical emergency case log and related procedure log of cardiovascular emergencies as mentioned below for at least 2 months including history case taking and cardiac assessment skills and interpretation of related laboratory investigation and findings and pharmacological and non pharmacological intervention	30%
	1.25 CP		- Practice in general emergency unit with clinical emergency case log of cardiovascular emergency as mentioned below and related procedure log for at least 2 months including proper diagnosis, and management (history case taking and cardiac assessment skills and interpretation of related laboratory investigation and findings and pharmacological and non pharmacological intervention	25%
	1.75 CP		- Attendance of shift night for at least one shift night /wk (8 am-8 am) for at least 2 months.	35%
	0.25 CP		- Attendance of clinical round with staff members in coronary ICU for at least 10 wk	5%
	0.25 CP		- Formative assessment of practical skills evaluation in 1 st 6 months of residence	5%
Student signature			Principle coordinator signature	Head of the department signature



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Course 7; unit 2: Cardiovascular emergencies case log

Case	Minimal Number	Case	Minimal Number
Cardiac emergency:		Acyanotic congenital heart disease.	25
Cardiogenic shock	40		
Pulmonary oedema.	50	Cardiomyopathy:	
Acute coronary syndrome	100	Idiopathic dilated cardiomyopathy	15
Syncopal attack	25	Ischaemic cardiomyopathy	50
		Restrictive cardiomyopathy	1
Cardiovascular medicine:		Hypertrophic Cardiomyopathy	2
<u>Valvular heart disease.</u>		Peripartum cardiomyopathy.	10
Infective endocarditis	15		
Rheumatic fever	15	Arrhythmias:	
Chronic valvular dysfunction.	50	Supraventricular tachycardia	25
		Atrial fibrillation and flutter.	25
<u>Ischaemic Heart Disease:</u>		Ventricular tachycardia and fibrillation.	10
Chronic stable angina.	50	Heart Block	25
Post-myocardial infarction rehab. Case.	50		
Post PCI and/or CABG rehab. Case.	40	Pericardial diseases:	
		Pericarditis	10
Heart Failure:		Pericardial effusion.	10
Chronic heart failure.	50	Constrictive pericarditis.	1
Intractable heart failure	10		
		Aortic diseases	
<u>Congenital heart disease:</u>		Aortic aneurysm	1
Cyanotic congenital heart disease.	15	Dissecting aortic aneurysm	1



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Course 7; unit 2: Cardiovascular emergencies case log (Foll.)

Case	Minimal Number	Case	Minimal Number
<u>Myocardial diseases</u>		Evaluation of a cardiac patient for a non cardiac surgery	5
Myocarditis	5		
		Cardiac diseases during pregnancy	5
Peripheral vascular disease:	10		
		Cardiac affection in other systemic diseases	5
Pulmonary embolism	5		
Vascular cor pulmonale	15		
Hypertension:	50		

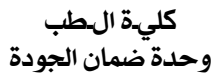
The clinical case log should be signed out by a staff member.

* Level of participation

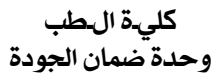
A- Plan and carry out

B- Carry out

C- Carry out under supervision

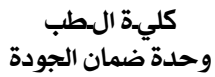


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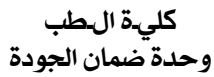
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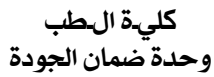
* Level of participation
A- Plan and carry out
B- Carry out
C- Carry out under supervision

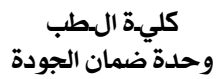


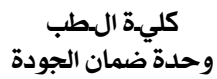
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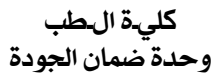
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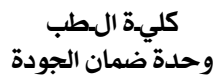




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Group B

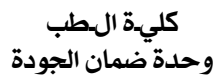
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Group B

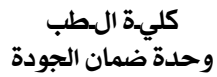
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Group C

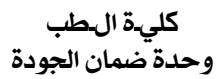
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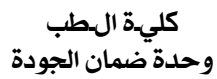
Group C

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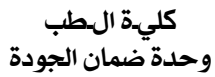
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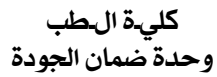
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First: Attendance

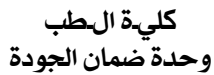
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First: Attendance

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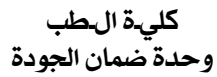


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Second: Case presentation

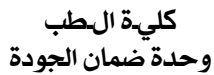
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A- Group A
B- Group B
C- Group C



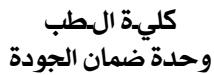
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Faculty of Medicine
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Cardiology Department



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وحدة ضمان الجودة



Faculty of Medicine
Cardiology Department

Clinical training	Credit points	Responsible department	Attendance	Percentage
Course7; unit3: Noninvasive diagnostic tools	3.5 CP	Cardiovascular Department ward, Coronary Care Unit and Accident and Emergency Department	- Practice in department, coronary ICU, general emergency unit and outpatients clinics with clinical case log and related non invasive diagnostic procedure log of cardiovascular diseases emergencies as mentioned below for at least 6 months including history case taking and cardiac assessment skills and interpretation of related laboratory investigation and findings and pharmacological and non-pharmacological intervention	87.5%
	0.5 CP		- Formative assessment of practical skills evaluation in reading findings of these diagnostic tools (OSCE)	12.5%
Student signature			Principle coordinator Signature	Head of the department signature



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Course7; unit3: Noninvasive diagnostic tools (Procedure log in first year) (4 credit point)

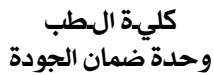
Case	Minimal Number	Level of participation	
ECG interpretation	100	A	25
		B	25
		C	50
Arterial blood gases sampling	20	A	5
		B	5
		C	10
Arterial blood gases interpretation	15	A	15
Cardiac assessment	200	A	50
		B	50
		C	100
CPR	10	B	5
		C	5
Defibrillation	5	A	2
		C	3
Echocardiography	20	B	10
		C	10
Chest X ray	30	A	10
		B	10
		C	10

* Level of participation

A- Plan and carry out

B- Carry out

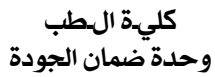
C- Carry out under supervision



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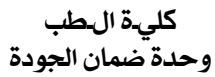
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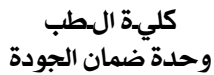
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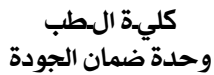
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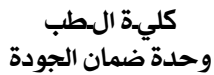
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Second Year

Requirement

- **Credit point:** 12 CP for didactic teaching (lectures, tutorial, seminars).
48 CP for clinical training in the second year.
- **Attend for at least 80% of didactics.**
- **Unit 1: Cardiovascular diseases:** (Total 24 CP); 4.8 CP for didactic teaching and 19.2 CP for clinical training.
- **Unit 2: Cardiovascular emergencies:** (Total 30 CP); 6 CP for didactic teaching and 24 CP for clinical training.
- **Unit 3: Non-invasive cardiac investigations:** (Total 6 CP); 1.2 CP for didactic teaching and 4.8 for clinical training.
- Attendance and achievement of at least 80% of requirements.

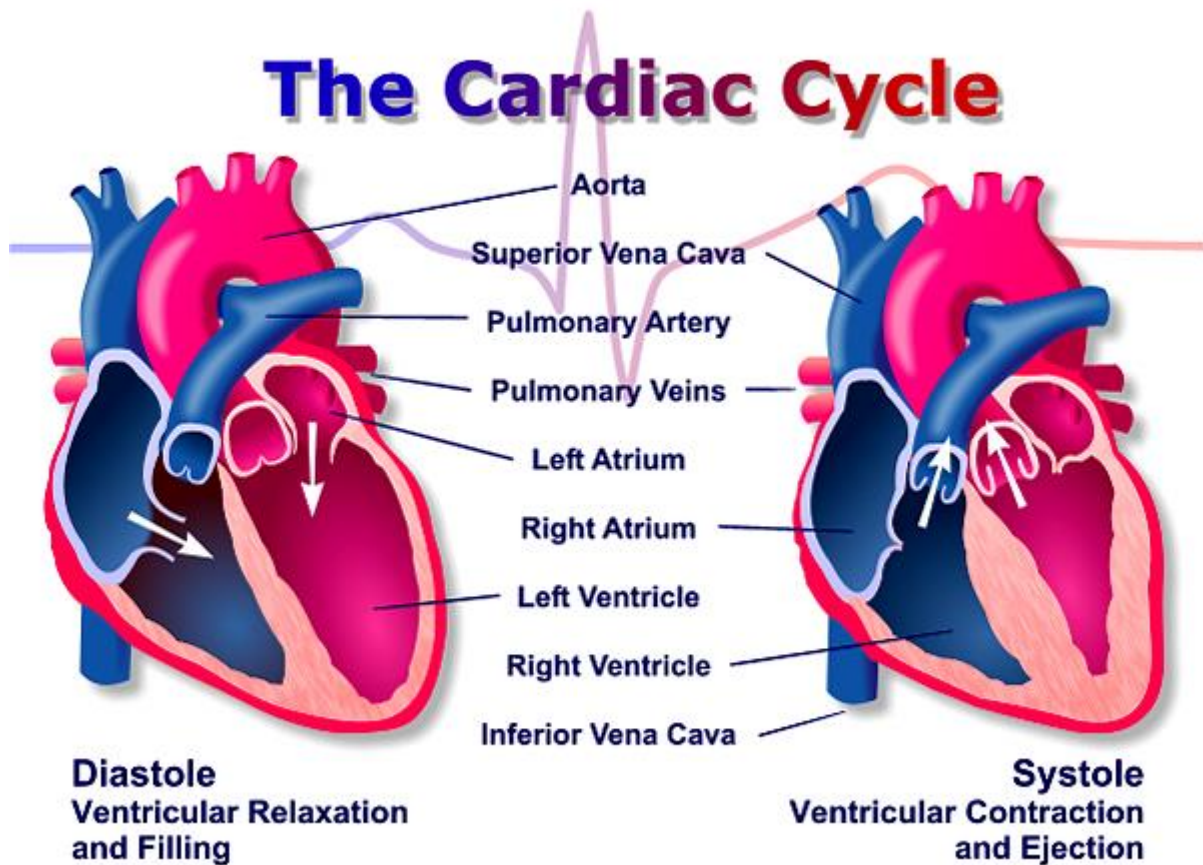


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Academic Activities





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It involves any lectures, seminars, conferences or congresses the candidate attend in the field of cardiology.

* Credit points: 12 credit points for didactics teaching and 48 credit points for training in each year i.e. 2nd year and 3rd year, including all units with according to time schedules and rotation.

* 1CP for attendance of seminars in cardiology department for at least 4months/year (once /wk).

* Formative assessment for didactics 1.5CP , 0.75CP for each year including all units with according to time schedules

* These lectures are mentioned in table below



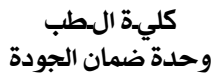
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Year 2

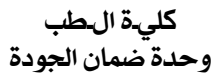
Name of the course	Credit points	Responsible department	Attendance	Percentage
Course7: Cardiology (unit 1-4)	12 CP	Cardiovascular medicine department	120 hours	100%
	0.65 CP		Atherosclerosis and chronic ischemic heart disease (6.5 hours)	2.7%
	0.8CP		Acute coronary syndromes (8 hours)	3.33%
	0.25 CP		Rheumatic fever (2.5 hours).	1.05%
	0.25 CP		Infective endocarditis (2.5 hours)	1.05%
	0.8 CP		Valvular heart disease (8 hours)	3.33%
	0.8 CP		Hypertension (8 hours)	3.33%
	0.8 CP		Heart failure (8 hours)	
	0.9CP		Arrhythmia and cardiac pacing (9 hours)	3.75%
			Adult congenital heart disease (5 hours)	
	0.5 CP		Myocardial diseases (5 hours)	2.1%
	0.5 CP		Pericardial diseases (2.5 hours)	2.1%
	0.25 CP		Diseases of the aorta (2.5 hours)	1.05%
	0.25 CP		Peripheral vascular diseases (2.5 hours)	1.05%
	0.25 CP		Diabetic heart disease (2.5 hours)	1.05%
	0.25 CP		Pregnancy and heart disease (2.5 hours)	1.05%
	0.25 CP		Preoperative assessment of a cardiac patient for a non-cardiac surgery (2.5 hours)	1.05%
	0.25 CP		Heart and CT disease (2.5 hours)	
	0.25 CP		Heart and renal disease (2.5 hours)	1.05%
	0.25 CP		Heart and endocrine diseases (2.5 hours)	1.05%
	0.25 CP		Cardio-pulmonary diseases and vascular cor pulmonale (5 hours)	1.05%
	0.5 CP		Cardiac tumors (2.5 hours)	2.1%
	0.25 CP		Clinical ECG (5 hours)	1.05%
	0.5 CP		Echocardiography (5 hours)	2.1%
	0.5 CP		Myocardial perfusion scintigraphy (2.5 hours).	2.1%
	0.25 CP		Cardiac CT and MRI imaging (2.5 hours)	1.05%
	0.25 CP		Basics of cardiac catheterization (2.5 hours)	1.05%
	2CP(1CP for each year)		Attendance of seminars in cardiology department for at least 4 months/year (once/wk) in year 2&3	8.3%
	0.75CP		Formative assessment	3.13%
Student signature			Principle coordinator signature	Head of the department signature



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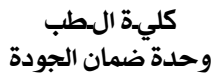
A- Presentation
B- Organization
C. Attendance



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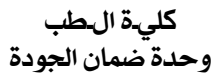
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B- Organization
C. Attendance



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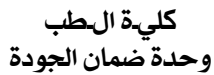
A- Presentation
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C. Attendance



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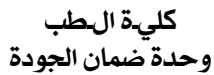
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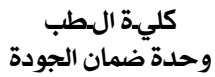
A- Presentation
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C. Attendance



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A- Presentation
B- Organization
C. Attendance



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A- Presentation
B- Organization
C. Attendance



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Cardiology Department

Clinical training	Credit points	Responsible department	Attendance	Percentage
Unit 1: Cardiovascular disease	5.8 CP	Cardiovascular department	- Practice in department with clinical case log of cardiovascular diseases as mentioned below for at least 2 months including history case taking and cardiac assessment skills and related laboratory investigation and findings.	30% of training unit in year 2
	3.8 CP		- Attendance of outpatient clinic of cardiovascular disease for at least twice/wk for 12 weeks	20% of training unit in year 2
	6.7 CP		- Attendance of shift night for at least one shift night /wk (2pm-8 am) for at least 3 months.	35% of training unit in year 2
	1.9 CP		- Attendance of clinical round with staff members for at least 15 wk	10% of training unit in year 2
	1 CP		- Formative assessment	5% of training unit in year 2
Student signature			Principle coordinator signature	Head of the department signature



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Course 7; unit 1: Cardiovascular medicine disease case log

Case	Minimal Number	Case	Minimal Number
Cardiovascular medicine disease:		Acyanotic congenital heart disease.	25
<u>Valvular heart disease.</u>			
Infective endocarditis	15	<u>Cardiomyopathy:</u>	
Rheumatic fever	15	Idiopathic dilated cardiomyopathy	15
Chronic valvular dysfunction.	50	Ischaemic cardiomyopathy	50
		Restrictive cardiomyopathy	1
<u>Ischaemic Heart Disease:</u>		Hypertrophic Cardiomyopathy	2
Chronic stable angina.	50	Peripartum cardiomyopathy.	10
Post-myocardial infarction rehab. Case.	50		
Post PCI and/or CABG rehab. Case.	40	<u>Arrhythmias:</u>	
		Supraventricular tachycardia	25
Heart Failure:		Atrial fibrillation and flutter.	25
Chronic heart failure.	50	Ventricular tachycardia and fibrillation.	10
Intractable heart failure	10	Heart Block	25
<u>Congenital heart disease:</u>		<u>Pericardial diseases:</u>	
Cyanotic congenital heart disease.	15	Pericarditis	10
		Pericardial effusion.	10
		Constrictive pericarditis.	1
		<u>Aortic diseases</u>	
		Aortic aneurysm	1
		Dissecting aortic aneurysm	1



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Course 7; unit 1: Cardiovascular Medicine disease (Foll.)

Case	Minimal Number	Case	Minimal Number
<u>Myocardial diseases</u>		Evaluation of a cardiac patient for a non cardiac surgery	5
Myocarditis	5		
		Cardiac diseases during pregnancy	5
Peripheral vascular disease:	10		
		Cardiac affection in other systemic diseases	5
Pulmonary embolism	5		
Vascular cor pulmonale	15		
Hypertension:	50		

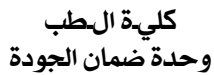
The clinical case log should be signed out by a staff member.

* Level of participation

A- Plan and carry out

B- Carry out

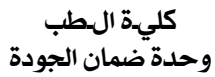
C- Carry out under supervision



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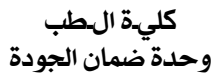
Clinical Rotation

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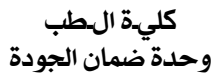
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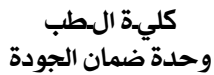
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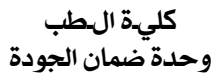
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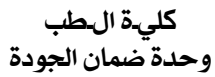
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Group A

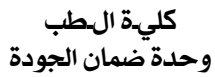
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Group A

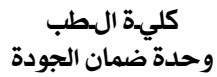
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Group B

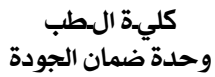
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Group B

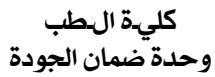
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Group C

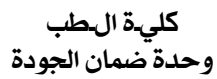
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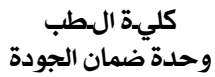
Group C

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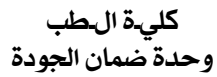
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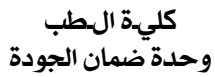
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First: Attendance

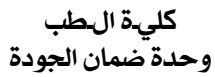
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First: Attendance

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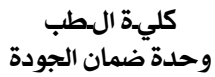


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Second: Case presentation

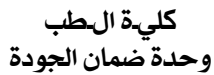
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A- Group A
B- Group B
C- Group C



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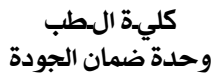
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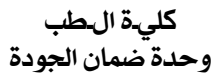
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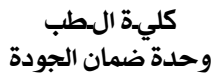
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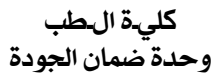
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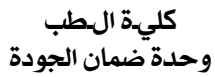
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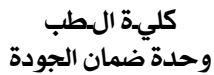
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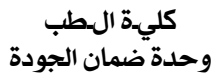
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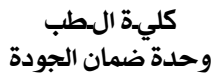
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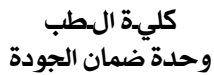
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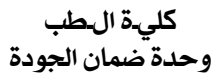
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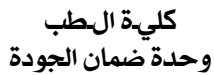
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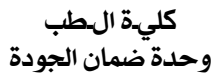
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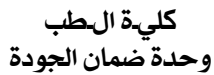
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Cardiology Department

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Year 2; Course7; unit 2: Cardiovascular emergencies	7.2 CP	Cardiovascular department and A & E department	- Practice in coronary ICU with clinical emergency case log and related procedure log of cardiovascular emergencies as mentioned below for at least 2 months including history case taking and cardiac assessment skills and interpretation of related laboratory investigation and findings and pharmacological and non pharmacological intervention	30% of training unit in year 2
	6 CP		- Practice in general emergency unit with clinical emergency case log of cardiovascular emergency as mentioned below and related procedure log for at least 2 months including proper diagnosis, and management (history case taking and cardiac assessment skills and interpretation of related laboratory investigation and findings and pharmacological and non pharmacological intervention	25% of training unit in year 2
	8.4 CP		- Attendance of shift night for at least one shift night /wk (8 am-8 am) for at least 2 months.	35% of training unit in year 2
	1.2 CP		- Attendance of clinical round with staff members in coronary ICU for at least 10 wk	5% of training unit in year 2
	1.2 CP		- Formative assessment of practical skills evaluation in 1 st 6 months of residence	5% of training unit in year 2
Student signature			Principle coordinator signature	Head of the department signature



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Course7; unit 2: Cardiovascular emergencies case log

Case	Minimal Number	Case	Minimal Number
Cardiac emergency:		Acyanotic congenital heart disease.	25
Cardiogenic shock	40		
Pulmonary oedema.	50	Cardiomyopathy:	
Acute coronary syndrome	100	Idiopathic dilated cardiomyopathy	15
Syncopal attack	25	Ischaemic cardiomyopathy	50
		Restrictive cardiomyopathy	1
Cardiovascular medicine:		Hypertrophic Cardiomyopathy	2
<u>Valvular heart disease.</u>		Peripartum cardiomyopathy.	10
Infective endocarditis	15		
Rheumatic fever	15	Arrhythmias:	
Chronic valvular dysfunction.	50	Supraventricular tachycardia	25
		Atrial fibrillation and flutter.	25
Ischaemic Heart Disease:		Ventricular tachycardia and fibrillation.	10
Chronic stable angina.	50	Heart Block	25
Post-myocardial infarction rehab. Case.	50		
Post PCI and/or CABG rehab. Case.	40	Pericardial diseases:	
		Pericarditis	10
Heart Failure:		Pericardial effusion.	10
Chronic heart failure.	50	Constrictive pericarditis.	1
Intractable heart failure	10		
		Aortic diseases	
Congenital heart disease:		Aortic aneurysm	1
Cyanotic congenital heart disease.	15	Dissecting aortic aneurysm	1



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Course7; unit 2: Cardiovascular emergencies case log (Foll.)

Case	Minimal Number	Case	Minimal Number
<u>Myocardial diseases</u>		Evaluation of a cardiac patient for a non cardiac surgery	5
Myocarditis	5		
		Cardiac diseases during pregnancy	5
Peripheral vascular disease:	10		
		Cardiac affection in other systemic diseases	5
Pulmonary embolism	5		
Vascular cor pulmonale	15		
Hypertension:	50		

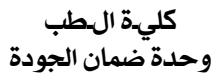
The clinical case log should be signed out by a staff member.

* Level of participation

A- Plan and carry out

B- Carry out

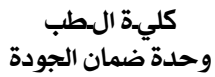
C- Carry out under supervision



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Clinical Rotation

[illegible]



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Clinical case log

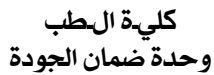
H.N	Diagnosis of case	Level of participation *	Location	Signature of supervisor

* Level of participation

A- Plan and carry out

B- Carry out

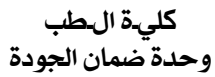
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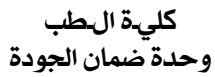
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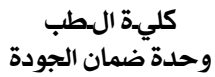
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Group A

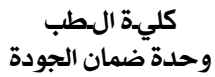
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Group A

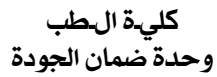
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Group B

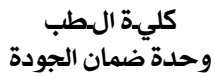
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Group B

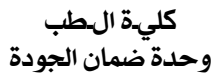
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Group C

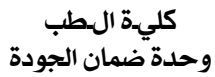
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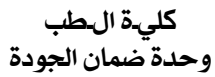
Group C

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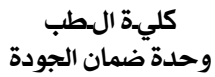
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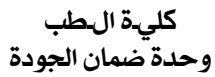
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First: Attendance

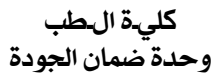
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First: Attendance

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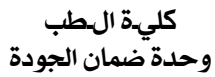


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Second: Case presentation

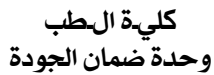
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A- Group A
B- Group B
C- Group C



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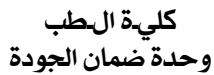
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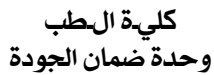
- C- Carry out under supervision



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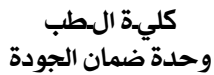
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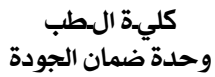
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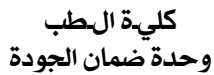
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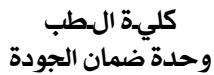
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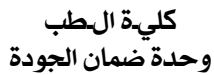
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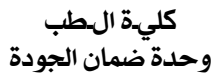
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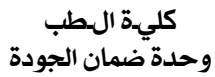
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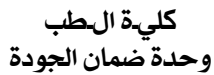
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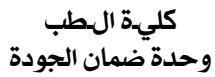
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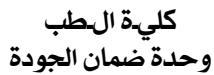
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C- Carry out under supervision



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C- Carry out under supervision



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C- Carry out under supervision



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Clinical training	Credit points	Responsible department	Attendance	Percentage
Year2; Course 7; unit 3: Noninvasive diagnostic tools	4.2 CP	Cardiovascular Department	- Practice in department, coronary ICU, general emergency unit and outpatients clinics with clinical case log and related noninvasive diagnostic procedure log of cardiovascular diseases emergencies as mentioned below for at least 6 months including history case taking and cardiac assessment skills and interpretation of related laboratory investigation and findings and pharmacological and non-pharmacological intervention.	87.5% of training unit in year 2
	0.6 CP		- Formative assessment of practical skills evaluation in reading findings of these diagnostic tools (OSCE).	12.5% of training unit in year 2
Student signature			Principle coordinator Signature	Head of the department signature

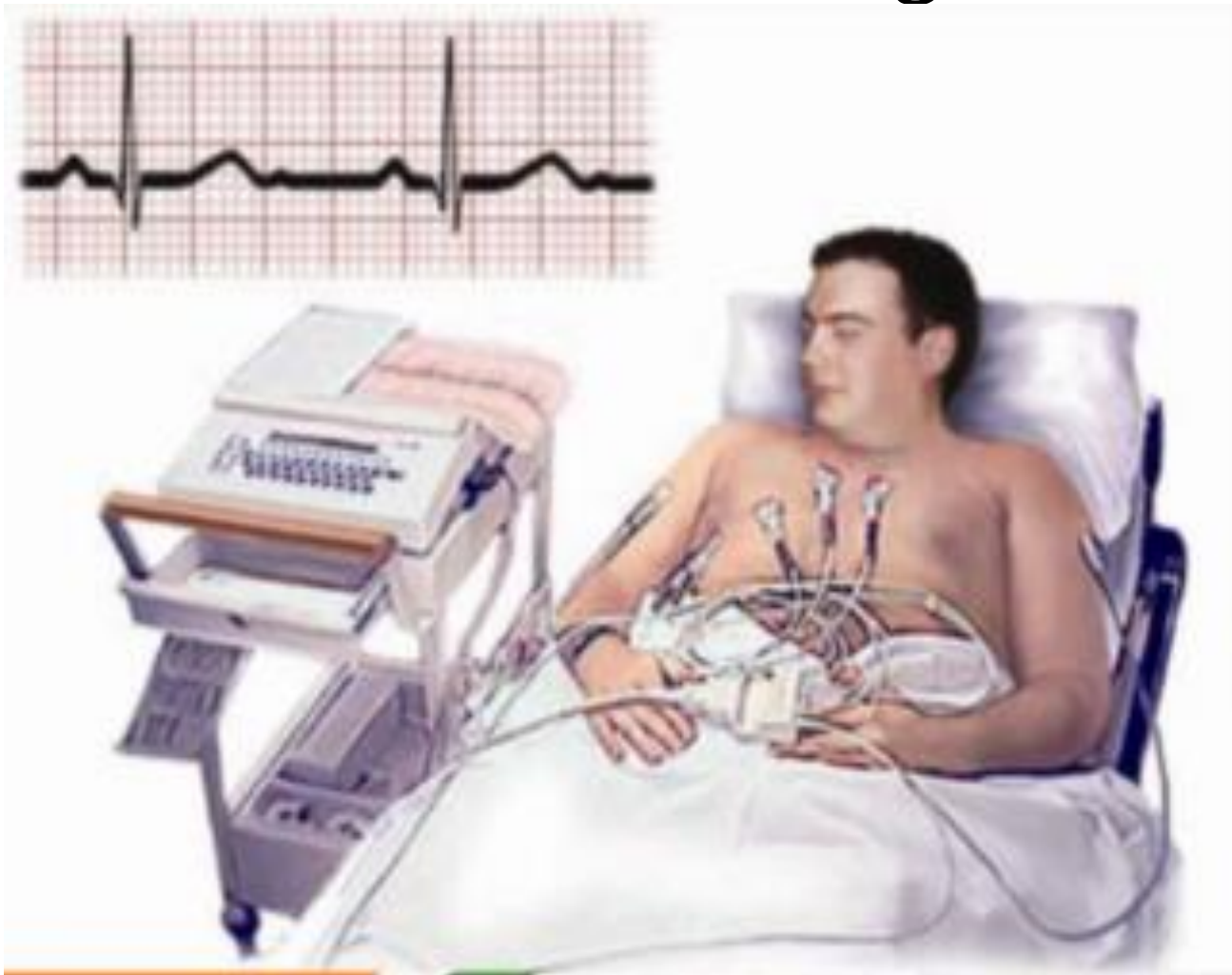


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Patients case log





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Cardiac procedures

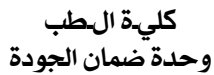
Procedure	Number	Procedure	Number
CVP line insertion	Level A 5 Level B 20 Level C 30	Coronary angiography	Level B 50 Level C 25
Cardiopulmonary resuscitation	Level A 20 Level B 20 Level C 30	Coronary interventions	Level B 30 Level C 10
ECG Reporting	Level A 500	Valvuloplasty	Level B 10 Level C 5
Echocardiography	Level A 100 Level C 100	Obtain a consent for invasive cardiac procedure	Level A 10 Level C 30
TEE	Level A 10 Level B 20 Level C 30	Arterial blood sampling	Level A 10 Level C 30
Stress ECG	Level A 30 Level B 50 Level C 150	Blood gas interpretation	Level C 50
Holter ECG	Level A 20 Level C 20	Pericardiocentesis	Level A 10 Level B 20 Level C 30
Nuclear procedures	Level C 25	Arterial blood sampling	Level A 20 Level B 20 Level C 30
Pacemaker Programming	Level A 30 Level B 30 Level C 30	Endotracheal intubation	Level A 5 Level B 10 Level C 20
Temporary Pacemaker	Level A 20 Level B 30 Level C 40	Electrical cardioversion	Level A 20 Level B 30 Level C 50
Permanent pacemaker	Level B 10 Level C 20	Monitoring of vital signs	Level A 20 Level B 20 Level C 30
Cardiac catheterization	Level B 10 Level C 10		

* Level of competency

A- Perform

B- Assist

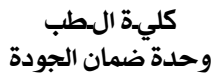
C- Observe



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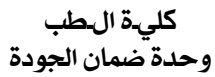
C- Observe



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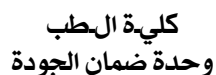
C- Observe



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C- Observe



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Procedure log book

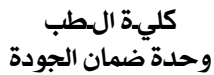
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* Level of competency

A- Perform

B- Assist

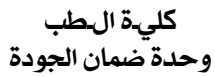
C- Observe



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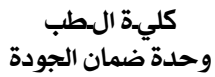
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C- Observe



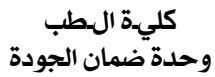
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Third Year

Requirement

- **Credit point:** 12 CP for didactic teaching (lectures, tutorial, seminars).
48 CP for clinical training in the third year.
- **Attend for at least 80% of didactics.**
- **Unit 1: Cardiovascular diseases:** (Total 24 CP); 4.8 CP for didactic teaching and 19.2 CP for clinical training.
- **Unit 2: Cardiovascular emergencies:** (Total 18 CP); 3.6 CP for didactic teaching and 14.4 CP for clinical training.
- **Unit 3: Non-invasive cardiac investigations:** (Total 12 CP); 2.4 CP for didactic teaching and 9.6 for clinical training.
- **Unit 4: Diagnostic and interventional cardiac catheterization:** (Total 6 CP); 1.2 CP for didactic teaching and 4.8 CP for clinical training.
- Attendance and achievement of at least 80% of requirements.

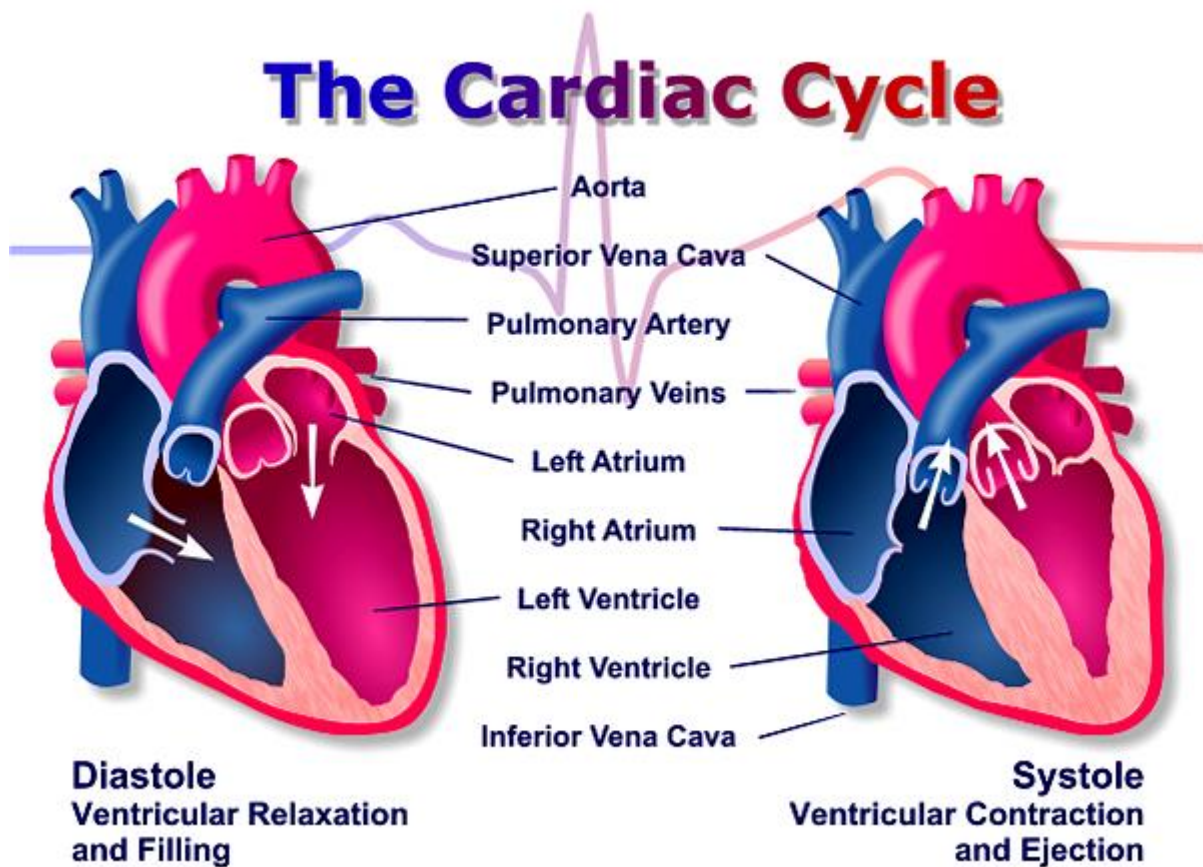


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Academic Activities





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It involves any lectures, seminars, conferences or congresses the candidate attend in the field of cardiology.

* Credit points: 12 credit points for didactics teaching and 48 credit points for training in 3rd year.

***Formative assessment for didactics 0.75CP in year 3**

***Attendance of seminars for at least 4 months once /week 1CP/year.**

* These lectures should involve the following items:

1. Acute coronary syndromes.
2. Chronic ischemic heart disease.
3. Rheumatic fever.
4. Valvular heart disease.
5. Hypertension.
6. Heart failure.
7. Infective endocarditis.
8. Arrhythmia and cardiac pacing.
9. Adult congenital heart disease.
10. Myocardial diseases.
11. Pericardial diseases.
12. Vascular cor pulmonale
13. Peripheral vascular diseases
14. Diseases of the aorta
15. Diabetic heart disease.
16. Pregnancy and heart disease.
17. Preoperative assessment of a cardiac patient for a non cardiac surgery.
18. Heart and CT disease.
19. Heart and renal disease.
20. Heart and endocrine diseases.
21. Cardio-pulmonary diseases
22. Cardiac tumors.
23. Percutaneous transluminal coronary interventions.
24. Echocardiography.
25. Myocardial perfusion scintigraphy.
26. Cardiac CT and MRI imaging.

*the weighting of these topics by CP is illustrated in table below;

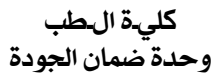


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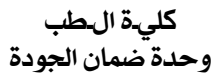
Name of the course	Credit points	Responsible department	Attendance	Percentage
Year 3 Course7 (Cardiology); Unit 1-4	12CP	Cardiovascular medicine department	120 hours	100%
	0.65 CP		Atherosclerosis and chronic ischemic heart disease (6.5 hours)	5.4%
	0.8CP		Acute coronary syndromes (8 hours)	6.66%
	0.25 CP		Rheumatic fever (2.5 hours).	2.1%
	0.25 CP		Infective endocarditis (2.5 hours)	2.1%
	0.8 CP		Valvular heart disease (8 hours)	6.66%
	0.8 CP		Hypertension (8 hours)	4.16%
	0.8 CP		Heart failure (8 hours)	4.16%
	0.9CP		Arrhythmia and cardiac pacing (9 hours)	4.16%
	0.5 CP		Adult congenital heart disease (5 hours)	4.16%
	0.5 CP		Myocardial diseases (5 hours)	4.16%
	0.25 CP		Pericardial diseases (2.5 hours)	2.1%
	0.25 CP		Diseases of the aorta (2.5 hours)	2.1%
	0.25 CP		Peripheral vascular diseases (2.5 hours)	2.1%
	0.25 CP		Diabetic heart disease (2.5 hours)	2.1%
	0.25 CP		Pregnancy and heart disease (2.5 hours)	2.1%
	0.25 CP		Preoperative assessment of a cardiac patient for a non-cardiac surgery (2.5 hours)	2.1%
	0.25 CP		Heart and CT disease (2.5 hours)	2.1%
	0.25 CP		Heart and renal disease (2.5 hours)	2.1%
	0.25 CP		Heart and endocrine diseases (2.5 hours)	2.1%
	0.5 CP		Cardio-pulmonary diseases and vascular cor pulmonale (5 hours)	2.1%
	0.25 CP		Cardiac tumors (2.5 hours)	2.1%
	0.5 CP		Clinical ECG (5 hours)	2.1%
	0.5 CP		Echocardiography (5 hours)	2.1%
	0.25 CP		Myocardial perfusion scintigraphy (2.5 hours).	2.1%
	0.25 CP		Cardiac CT and MRI imaging (2.5 hours)	2.1%
	0.25 CP		Basics of cardiac catheterization (2.5 hours)	2.1%
	2 CP(1CP for each year)		Attendance of seminars in cardiology department for at least 4 months/year (once/wk) in year 2&3	8.3%
	0.75CP		Formative assessment	3.13%
Student signature			Principle coordinator signature	Head of the department signature



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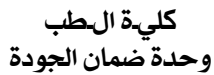
A- Presentation
B- Organization
C. Attendance



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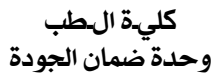
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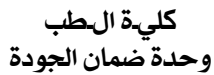
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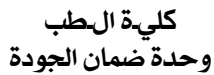
A- Presentation
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C. Attendance



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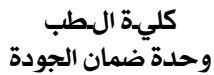
A- Presentation
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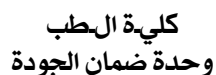
A- Presentation
B- Organization
C. Attendance



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A- Presentation
B- Organization
C. Attendance

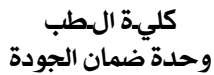


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Course 7: (Cardiology) units 1-4; lectures (third year)

**** Your role:-**

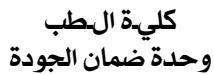
A- Presentation
B- Organization
C. Attendance



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A- Presentation
B- Organization
C. Attendance



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A- Presentation
B- Organization
C. Attendance



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Clinical training	Credit points	Responsible department	Attendance	Percentage
Year3; Course 7; unit 1: Cardiovascular disease	5.8 CP	Cardiovascular department	- Practice in department with clinical case log of cardiovascular diseases as mentioned below for at least 2 months including history case taking and cardiac assessment skills and related laboratory investigation and findings.	30%
	3.8 CP		- Attendance of outpatient clinic of cardiovascular disease for at least twice/wk for 8weeks	20%
	6.7 CP		- Attendance of shift night for at least one shift night /wk (2pm-8 am) for at least 2 months.	35%
	1.9 CP		- Attendance of clinical round with staff members for at least 15 wk	10%
	1 CP		- Formative assessment	5%
Student signature			Principle coordinator signature	Head of the department signature



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Cardiology Department

Course7; unit 1:Cardiovascular Medicine Disease case log

Case	Minimal Number	Case	Minimal Number
Cardiac emergency:		Acyanotic congenital heart disease.	25
Cardiogenic shock	40		
Pulmonary oedema.	50	Cardiomyopathy:	
Acute coronary syndrome	100	Idiopathic dilated cardiomyopathy	15
Syncopal attack	25	Ischaemic cardiomyopathy	50
		Restrictive cardiomyopathy	1
Cardiovascular medicine:		Hypertrophic Cardiomyopathy	2
<u>Valvular heart disease.</u>		Peripartum cardiomyopathy.	10
Infective endocarditis	15		
Rheumatic fever	15	Arrhythmias:	
Chronic valvular dysfunction.	50	Supraventricular tachycardia	25
		Atrial fibrillation and flutter.	25
Ischaemic Heart Disease:		Ventricular tachycardia and fibrillation.	10
Chronic stable angina.	50	Heart Block	25
Post-myocardial infarction rehab. Case.	50		
Post PCI and/or CABG rehab. Case.	40	Pericardial diseases:	
		Pericarditis	10
Heart Failure:		Pericardial effusion.	10
Chronic heart failure.	50	Constrictive pericarditis.	1
Intractable heart failure	10		
		Aortic diseases	
Congenital heart disease:		Aortic aneurysm	1
Cyanotic congenital heart disease.	15	Dissecting aortic aneurysm	1



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Course 7; unit 1: Cardiovascular disease case log (Foll.)

Case	Minimal Number	Case	Minimal Number
<u>Myocardial diseases</u>		Evaluation of a cardiac patient for a non cardiac surgery	5
Myocarditis	5		
		Cardiac diseases during pregnancy	5
Peripheral vascular disease:	10		
		Cardiac affection in other systemic diseases	5
Pulmonary embolism	5		
Vascular cor pulmonale	15		
Hypertension:	50		

The clinical case log should be signed out by a staff member.

* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



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Cardiology Department

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Course7; unit 2: Cardiovascular emergencies	5.4 CP	Cardiovascular department and A & E department	- Practice in coronary ICU with clinical emergency case log and related procedure log of cardiovascular emergencies as mentioned below for at least 2 months including history case taking and cardiac assessment skills and interpretation of related laboratory investigation and findings and pharmacological and non pharmacological intervention	30%
	4.5 CP		- Practice in general emergency unit with clinical emergency case log of cardiovascular emergency as mentioned below and related procedure log for at least 2 months including proper diagnosis, and management (history case taking and cardiac assessment skills and interpretation of related laboratory investigation and findings and pharmacological and non pharmacological intervention	25%
	6.3 CP		- Attendance of shift night for at least one shift night /wk (8 am-8 am) for at least 2 months.	35%
	0.9 CP		- Attendance of clinical round with staff members in coronary ICU for at least 10 wk	5%
	0.9 CP		- Formative assessment of practical skills evaluation in 1 st 6 months of residence	5%
Student signature			Principle coordinator signature	Head of the department signature



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Faculty of Medicine
Cardiology Department

Course 7; unit 2; Cardiovascular Medicine emergencies case log

Case	Minimal Number	Case	Minimal Number
Cardiac emergency:		Acyanotic congenital heart disease.	25
Cardiogenic shock	40		
Pulmonary oedema.	50	Cardiomyopathy:	
Acute coronary syndrome	100	Idiopathic dilated cardiomyopathy	15
Syncopal attack	25	Ischaemic cardiomyopathy	50
		Restrictive cardiomyopathy	1
Cardiovascular medicine disease in emergencies:		Hypertrophic Cardiomyopathy	2
<u>Valvular heart disease.</u>		Peripartum cardiomyopathy.	10
Infective endocarditis	15		
Rheumatic fever	15	Arrhythmias:	
Chronic valvular dysfunction.	50	Supraventricular tachycardia	25
		Atrial fibrillation and flutter.	25
Ischaemic Heart Disease:		Ventricular tachycardia and fibrillation.	10
Chronic stable angina.	50	Heart Block	25
Post-myocardial infarction rehab. Case.	50		
Post PCI and/or CABG rehab. Case.	40	Pericardial diseases:	
		Pericarditis	10
Heart Failure:		Pericardial effusion.	10
Chronic heart failure.	50	Constrictive pericarditis.	1
Intractable heart failure	10		
		Aortic diseases	
Congenital heart disease:		Aortic aneurysm	1
Cyanotic congenital heart disease.	15	Dissecting aortic aneurysm	1



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Cardiology Department

Course 7; unit 2; Cardiovascular Medicine emergencies case log (Foll.)

Case	Minimal Number	Case	Minimal Number
<u>Myocardial diseases</u>		Evaluation of a cardiac patient for a non cardiac surgery	5
Myocarditis	5		
		Cardiac diseases during pregnancy	5
Peripheral vascular disease:	10		
		Cardiac affection in other systemic diseases	5
Pulmonary embolism	5		
Vascular cor pulmonale	15		
Hypertension:	50		

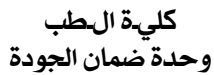
The clinical case log should be signed out by a staff member.

* Level of participation

A- Plan and carry out

B- Carry out

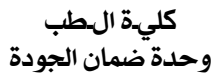
C- Carry out under supervision



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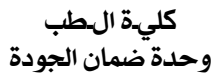
Clinical Rotation

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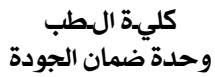
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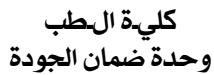
C- Carry out under supervision



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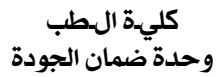
C- Carry out under supervision



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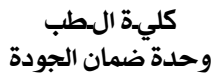
C- Carry out under supervision



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Group A

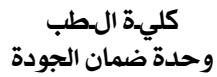
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Group A

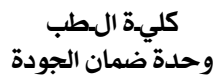
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Group B

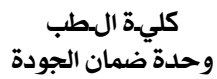
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Group B

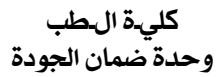
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Group C

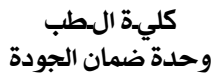
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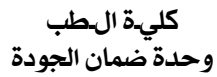
Group C

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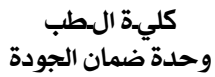
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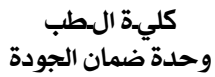
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First: Attendance

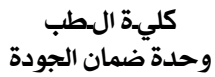
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First: Attendance

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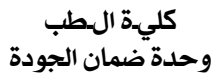


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Second: Case presentation

[illegible]

A- Group A
B- Group B
C- Group C



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Cardiology Department

Clinical training	Credit points	Responsible department	Attendance	Percentage
Year 3; course7; unit3: Noninvasive diagnostic tools	10.5 CP	Cardiovascular Department	- Practice in department, coronary ICU, general emergency unit and outpatients clinics with clinical case log and related noninvasive diagnostic procedure log of cardiovascular diseases emergencies as mentioned below for at least 6 months including history case taking and cardiac assessment skills and interpretation of related laboratory investigation and findings and pharmacological and non-pharmacological intervention	87.5%
	1.5 CP		- Formative assessment of practical skills evaluation in reading findings of these diagnostic tools (OSCE)	12.5%
Student signature			Principle coordinator Signature	Head of the department signature



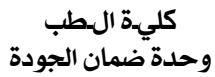
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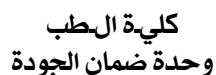
Cardiac procedures log

Procedure	Number	Procedure	Number
CVP line insertion	Level A 5 Level B 20 Level C 30	Coronary angiography	Level B 50 Level C 25
Cardiopulmonary resuscitation	Level A 20 Level B 20 Level C 30	Coronary interventions	Level B 30 Level C 10
ECG Reporting	Level A 500	Valvuloplasty	Level B 10 Level C 5
Echocardiography	Level A 100 Level C 100	Obtain a consent for invasive cardiac procedure	Level A 10 Level C 30
TEE	Level A 10 Level B 20 Level C 30	Arterial blood sampling	Level A 10 Level C 30
Stress ECG	Level A 30 Level B 50 Level C 150	Blood gas interpretation	Level C 50
Holter ECG	Level A 20 Level C 20	Pericardiocentesis	Level A 10 Level B 20 Level C 30
Nuclear procedures	Level C 25	Arterial blood sampling	Level A 20 Level B 20 Level C 30
Pacemaker Programming	Level A 30 Level B 30 Level C 30	Endotracheal intubation	Level A 5 Level B 10 Level C 20
Temporary Pacemaker	Level A 20 Level B 30 Level C 40	Electrical cardioversion	Level A 20 Level B 30 Level C 50
Permanent pacemaker	Level B 10 Level C 20	Monitoring of vital signs	Level A 20 Level B 20 Level C 30
Cardiac catheterization	Level B 10 Level C 10		
* Level of competency A- Perform B- Assist C- Observe			



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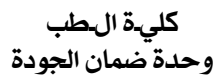
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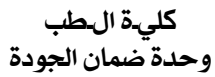
Procedure log book

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Clinical training	Credit points	Responsible department	Attendance	Percentage
Year 3; Course7: Unit 4: Diagnostic and interventional cardiac catheterization	5.25 CP	Cardiovascular Department	- Practice in cath lab with clinical case log and related invasive diagnostic procedures as mentioned below for at least 6 months including pre-cath assessment of patients for diagnostic and therapeutic coronary intervention, temporary pacemaker insertion, permanent pacemaker implantation, percutaneous transluminal mitral commissurotomy, balloon pulmonary valvuloplasty and diagnostic cardiac catheterization for congenital heart diseases.	87.5%
	0.75 CP		- Formative assessment of practical skills evaluation (OSCE)	12.5%
Student signature			Principle coordinator Signature	Head of the department signature

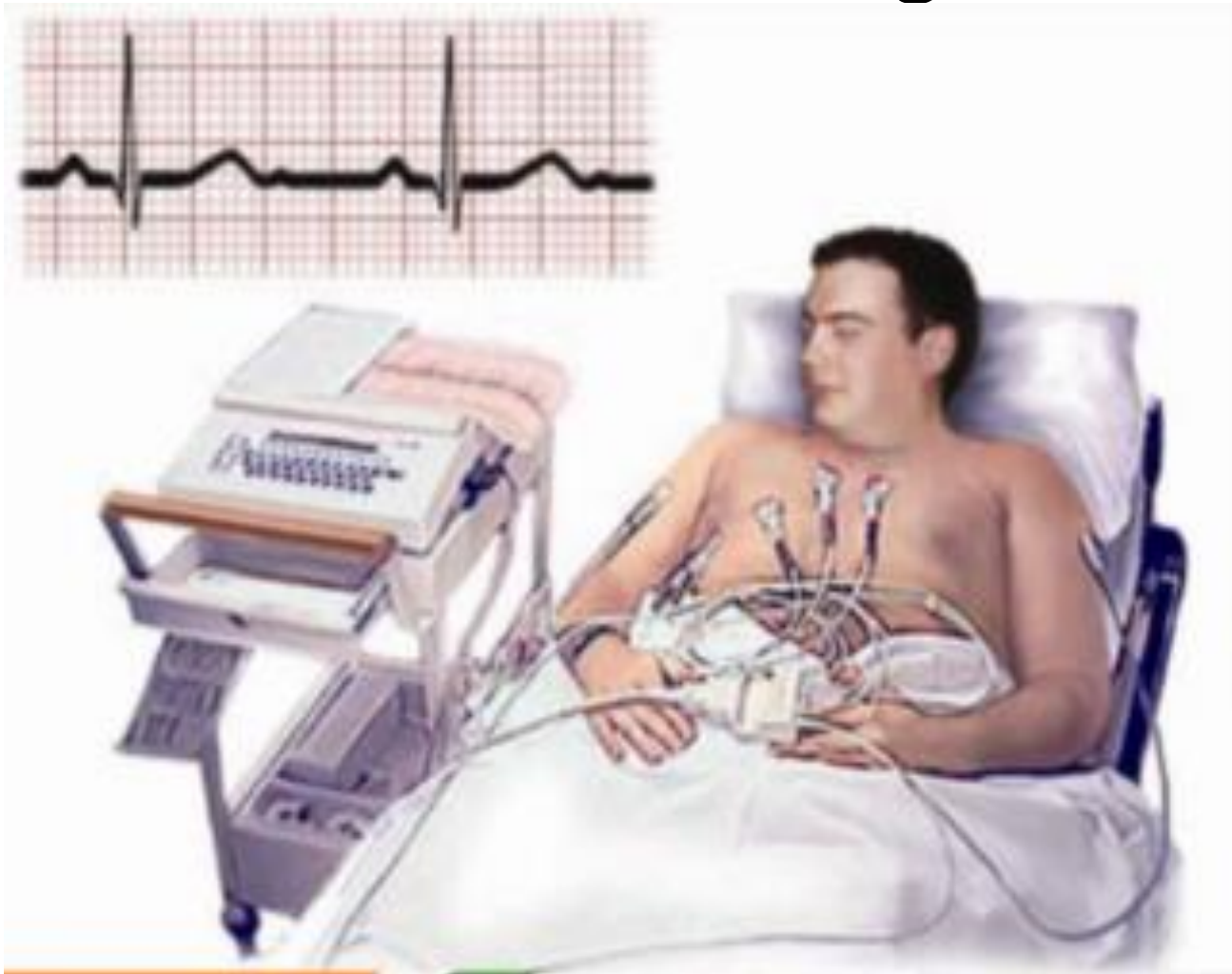


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Patients case log





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Courses (7);unit 4: Diagnostic and interventional cardiac catheterization(clinical assessment of case log)

Case	Minimal Number	Case	Minimal Number
Cardiac emergency:		Acyanotic congenital heart disease.	25
Cardiogenic shock	40		
Pulmonary oedema.	50	<u>Cardiomyopathy:</u>	
Acute coronary syndrome	100	Idiopathic dilated cardiomyopathy	15
Syncopal attack	25	Ischaemic cardiomyopathy	50
		Restrictive cardiomyopathy	1
Cardiovascular medicine:		Hypertrophic Cardiomyopathy	2
<u>Valvular heart disease.</u>		Peripartum cardiomyopathy.	10
Infective endocarditis	15		
Rheumatic fever	15	<u>Arrhythmias:</u>	
Chronic valvular dysfunction.	50	Supraventricular tachycardia	25
		Atrial fibrillation and flutter.	25
<u>Ischaemic Heart Disease:</u>		Ventricular tachycardia and fibrillation.	10
Chronic stable angina.	50	Heart Block	25
Post-myocardial infarction rehab. Case.	50		
Post PCI and/or CABG rehab. Case.	40	<u>Pericardial diseases:</u>	
		Pericarditis	10
Heart Failure:		Pericardial effusion.	10
Chronic heart failure.	50	Constrictive pericarditis.	1
Intractable heart failure	10		
		<u>Aortic diseases</u>	
<u>Congenital heart disease:</u>		Aortic aneurysm	1
Cyanotic congenital heart disease.	15	Dissecting aortic aneurysm	1



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Courses (7);unit 4: Diagnostic and interventional cardiac catheterization(clinical assessment of case log) (Foll.)

Case	Minimal Number	Case	Minimal Number
<u>Myocardial diseases</u>		Evaluation of a cardiac patient for a non-cardiac surgery	5
Myocarditis	5		
		Cardiac diseases during pregnancy	5
Peripheral vascular disease:	10		
		Cardiac affection in other systemic diseases	5
Pulmonary embolism	5		
Vascular cor pulmonale	15		
Hypertension:	50		

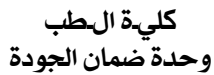
The clinical case log should be signed out by a staff member.

* Level of participation

A- Plan and carry out

B- Carry out

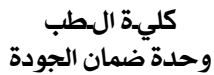
C- Carry out under supervision



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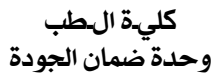
C- Carry out under supervision



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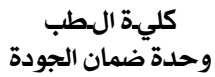
C- Carry out under supervision



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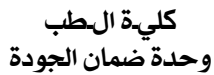
C- Carry out under supervision



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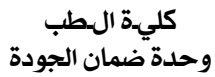
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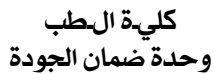
C- Carry out under supervision



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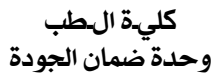
- C- Carry out under supervision



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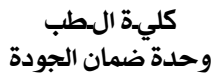
C- Carry out under supervision



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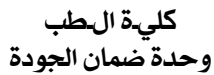
C- Carry out under supervision



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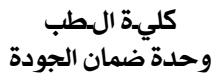
C- Carry out under supervision



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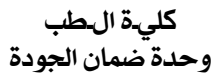
C- Carry out under supervision



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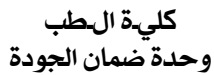
C- Carry out under supervision



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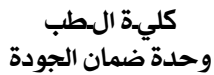
C- Carry out under supervision



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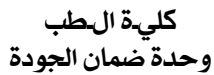
C- Carry out under supervision



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C- Carry out under supervision



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C- Carry out under supervision

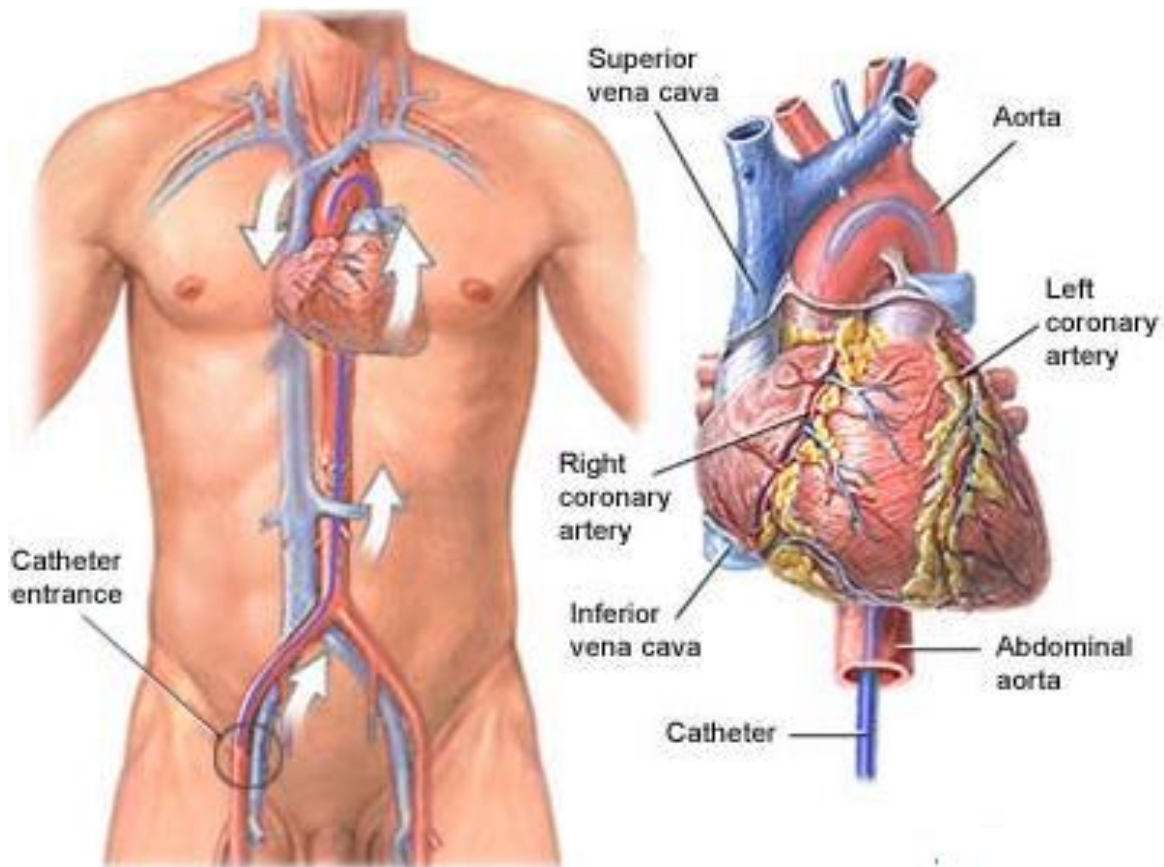


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Procedures log





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Cardiac procedures

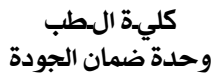
Procedure	Number	Procedure	Number
CVP line insertion	Level A 5 Level B 20 Level C 30	Coronary angiography	Level B 50 Level C 25
Cardiopulmonary resuscitation	Level A 20 Level B 20 Level C 30	Coronary interventions	Level B 30 Level C 10
ECG Reporting	Level A 500	Valvuloplasty	Level B 10 Level C 5
Echocardiography	Level A 100 Level C 100	Obtain a consent for invasive cardiac procedure	Level A 10 Level C 30
TEE	Level A 10 Level B 20 Level C 30	Arterial blood sampling	Level A 10 Level C 30
Stress ECG	Level A 30 Level B 50 Level C 150	Blood gas interpretation	Level C 50
Holter ECG	Level A 20 Level C 20	Pericardiocentesis	Level A 10 Level B 20 Level C 30
Nuclear procedures	Level C 25	Arterial blood sampling	Level A 20 Level B 20 Level C 30
Pacemaker Programming	Level A 30 Level B 30 Level C 30	Endotracheal intubation	Level A 5 Level B 10 Level C 20
Temporary Pacemaker	Level A 20 Level B 30 Level C 40	Electrical cardioversion	Level A 20 Level B 30 Level C 50
Permanent pacemaker	Level B 10 Level C 20	Monitoring of vital signs	Level A 20 Level B 20 Level C 30
Cardiac catheterization	Level B 10 Level C 10		

* Level of competency

A- Perform

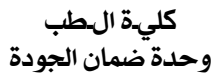
B- Assist

C- Observe



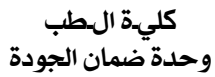
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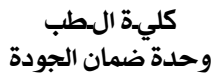
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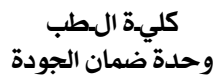
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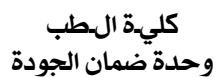
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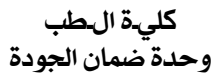
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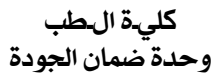
Procedure log book

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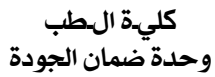


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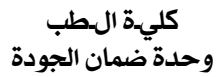


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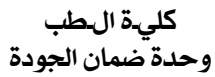
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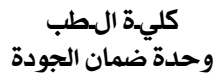
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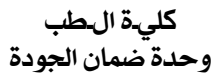
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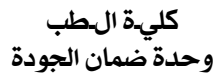
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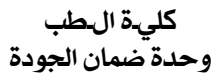
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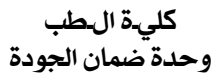
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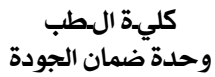
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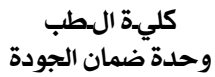
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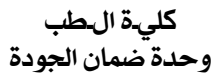
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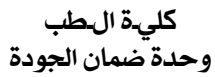
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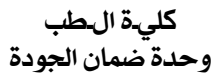
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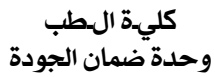
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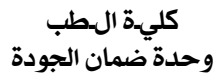
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Second: Tutorial

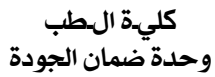
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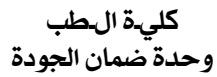
Second: Tutorial

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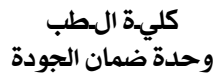
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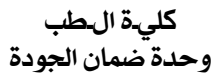
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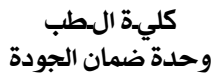
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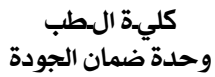
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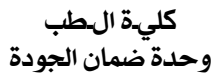
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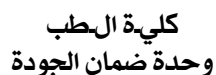
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[illegible]



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[illegible]



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Postgraduate student's program Rotation in training assessment

*** Name:**

*** Period of training** **From:** _____ **To:** _____

*** Site:**

***Rotation**

General skills	could not judge (0)	strongly disagree(1)	 (2) (3)		 (4) (5)		 (6) (7)	
Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks).								
Appraises evidence from scientific studies.								
Conduct epidemiological studies and surveys.								
Perform data management including data entry and analysis and using information technology to manage information, access on-line medical information; and support their own education.								



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وحدة ضمان الجودة



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General skills	could not judge (0)	strongly disagree(1)	(2) (3)	(4) (5)	(6)	strongly agree (7)
Facilitate learning of students other health care professionals including their evaluation and assessment.						
Maintain therapeutic and ethically sound relationship with patients.						
Elicit information using effective nonverbal, explanatory, questioning, and writing skills.						
Provide information using effective nonverbal, explanatory, questioning, and writing skills.						
Work effectively with others as a member of a health care team or other professional group.						
Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society.						
Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices.						



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وحدة ضمان الجودة



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General skills	could not judge (0)	strongly disagree(1)	(2)	(3)	(4)	(5)	(6)	strongly agree (7)
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.								
Work effectively in relevant health care delivery settings and systems including good administrative and time management								
Practice cost-effective health care and resource allocation that does not compromise quality of care.								
Assist patients in dealing with system complexities.								



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وحدة ضمان الجودة



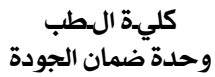
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Elective Course 1

Requirements

● **Credit points:** 2 credit point.

- Minimal rate of attendance 80% of lectures and 80% of training

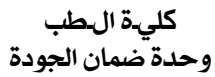


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Name of the elective course: -----

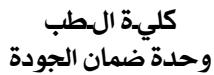
Elective Course 1 Lectures

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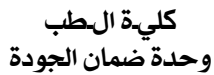


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Formative Assessment

[illegible]

- Mini clinical examination
- Quizzes.
- MCQ.

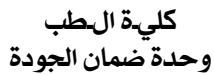


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Formative Assessment

[illegible]

- Mini clinical examination
- Quizzes.
- MCQ.

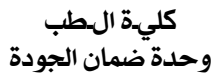


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Formative Assessment

[illegible]

- Mini clinical examination
- Quizzes.
- MCQ.



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Formative Assessment

[illegible]

- Mini clinical examination
- Quizzes.
- MCQ.



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وحدة ضمان الجودة



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References:

* The European society of cardiology core syllabus.

Coordinator of the program:

Dr. Ahmed Abdel-Galeel, MD.

Principle Coordinator:

Dr. Hamdy Shams, MD.

Head of the department:

Prof. Hossam El-araby, Professor of Cardiology



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الرسائل العلمية

عنوان الرسالة

عربي : _____

انجليزي : _____

المشرفون : _____

1- _____

2- _____

3 _____

تاريخ القيد لدرجة : / / _____

تاريخ التسجيل الموضوع : _____

المتابعة الدورية : _____

التاريخ	ما تم انجازه من بروتوكول البحث	المتبقي	توقيع المشرفين



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Declaration

Course Structure Mirror	Responsible (Course) Coordinator Name:	Signature	Date
First Part			
Course 1			
Course 2			
Unit (Module) 1			
Unit (Module) 2			
Course 3			
Course 4			
Course 5			
Course 6			
Second Part			
Course 7			
Unit (Module) 1			
Unit (Module) 2			
Unit (Module) 3			
Unit (Module) 4			
- Elective Course (s) Certificate (s) Dates:			
- Master Degree Thesis Acceptance Date:			
- Fulfillment of required credit points prior to final examination			
Cardiovascular medicine MSc Degree Principle Coordinator:			
Date approved by cardiovascular medicine Department Council:			

يعتمد ،
رئيس القسم