

Medical Doctorate (M.D.) Degree of Chest Diseases & Tuberculosis Log Book



” كراسية الأنشطة ”

**اللازمة لحصول المتدرب على درجة الدكتوراه في الأمراض الصدرية
والتدرن
2022-2023**



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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:-

1- 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 you trainer.

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, you 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
- Quises



1- Program aims

- 1/1 To enable candidates to master 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 pulmonary medicine and tuberculosis (TB), pulmonary function testing, diagnostic and interventional bronchology, sleep medicine and enabling the candidates of making appropriate referrals to a sub-specialist
- 1/2 Provide candidates with fundamental knowledge and skills of respiratory intensive care medicine as regards; dealing with critically ill respiratory patients, ICU equipments, techniques, indications, contraindications and training skills of different intensive care techniques.
- 1/3 To enable candidates to perform high standard scientific medical research and how to proceed with publication in indexed medical journals.
- 1/4 To enable candidates to describe the basic ethical and medicolegal principles relevant to Chest diseases and tuberculosis.
- 1/5 To enable candidates to have professional careers as a consultant in Egypt but recognized abroad.
- 1/6 To enable candidates to continue self learning in subspecialties.
- 1/7 To enable candidates to master different research methodology and do their own.

5- Program Structure

Program Time Table

Duration of program up to 4 years (could be extended to 6 years) divided into

○ Part 1

Program-related basic science courses

- Medical statistics.
- Research methodology
- : Medicolegal Aspects and Ethics in Medical Practice and Scientific Research

Students are allowed to sit the exams of these courses after 6 months from applying to the M D degree.

○ Thesis and 2 published researches

For the M D thesis;

MD thesis subject should be officially registered within 1 year from application to the MD degree,

Discussion and acceptance of the thesis should not be set before 24 months from registering the M D subject;

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

○ Part 2

Program –related speciality courses and ILOs

Students are not allowed to sit the exams of these courses before 4 years from applying to the MD degree.



First Part

Basic science Courses

Course	Name of the course
Course 1	Medical statistics
Course 2	Research methodology
Course 3	Medicolegal Aspects and Ethics in Medical Practice and Scientific Research
Course 4	Chest Diseases and Tuberculosis 1 (Applied chest physiology & pathology)



Medical statistics

Requirements

- ◆ Credit points: 1 credit point
- ◆ Minimal rate of attendance 80%

Name of the course	Credit points	Responsible department	Attendance	Practical	Percentage of Achieved points
Medical statistics	1 credit point	Pubic Health & Community Medicine			100%
	0.1		Introduction 1 hour	SPSS Introduction 2H	10%
	0.1		Tables and graphics 1 Hour	Data entry and cleaning of data 2H	10%
	0.1		Sampling 1 Hour	Transforming of variables 2H	10%
	0.1		Methodology of data collection 1 Hour	Descriptive statistics 2 H	10%
	0.1		Type of variables 1 Hour	Graphic presentation 2 H	10%
	0.1		Proportion test Chi-square test 1 Hour	Chi square and interpretation of results 2 H	10%
	0.1		Student T test Paired T test 1 Hour	Student, Paired and ANOVA tests 2H	10%
	0.1		ANOVA test 1 Hour	Correlation Regression 2 Hour	10%
	0.1		Non parametric tests 1 Hour	Multiple and logistic Regression 2 H	10%
	0.1		Discrimination analysis factor analysis 1 Hour	Non parametric tests 2 H	10%
			Revision 1 H	Revision 2H	
Student signature			Principle coordinator signature		Head of the department signature



Research Methodology

Requirements

- Credit points: 1 credit point
- Minimal rate of attendance 80%

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Research Methodology	1 credit point	Pubic Health & Community Medicine		100%
	0.15		4 hours Introduction & proposal writing	15%
	0.15		4 hours Epidemiological study designs	15%
	0.15		4 hours Screening & theoretical background	15%
	0.24		6 hours Screening practical	24%
	0.15		4 hours Sample size calculation	15%
	0.08		2 hours Research bias	8%
	0.08		2 hours Ethics in research	8%
	-		2 hours Revision	-
Student signature			Principle coordinator signature	Head of the department signature



Medicolegal Aspects and Ethics in Medical Practice and Scientific Research

Requirements

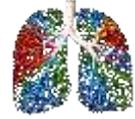
● **Credit points: 1 credit point**

Minimal rate of attendance 80%

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Medicolegal Aspects and Ethics in Medical Practice and Scientific Research	1 credit point	Forensic Medicine and Clinical Toxicology	10 hours	100%
	0.2		2 hours Suspicious death. Death and death certificate.	20%
	0.2		2 hours Supportive measures	20%
	0.2		2 hours Toxicological reports	20%
	0.2		2 hours Ethics in research.	20%
	0.2		2 hours Medical ethics.	20%
	Student signature			Principle coordinator signature



كلية الطب



Chest Department
Faculty of Medicine

Chest Diseases and Tuberculosis 1 (Applied chest physiology & pathology)

Applied Chest Physiology

Requirements

- Credit points: 3.5 credit point
- Minimal rate of attendance 80%



Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Applied chest physiology	2 credit point	Physiology	20 hours ➤ Respiratory system	57.14
	0.5		5 hours <ul style="list-style-type: none"> Functional structure of the respiratory system. Regulation of normal respiration Respiratory cycle, its mechanism, intrapleural pressure, and surfactant, work of breath and compliance of lungs. 	25% of respiratory system
	0.5		5 hours <ul style="list-style-type: none"> Gas transport in blood (oxygen dissociation curve and CO₂ curve) Respiratory functions of the blood and some disorders of the respiratory system as dyspnea, hypoxia and cyanosis). 	25% of respiratory system
	0.5		5 hours <ul style="list-style-type: none"> Ventilation, Pulmonary Blood Flow, and Ventilation-Perfusion Relationships Diffusion, Chemical Reactions, and Diffusing Capacity 	25% of respiratory system
	0.5		5 hours <ul style="list-style-type: none"> The Lungs in Different Physiological States Breathing in Exercise The Lungs in Pregnancy Aging of the Respiratory System 	25% of respiratory system



Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
	0.25		2.5 hours ➤ Autonomic nervous system • Structure and functions of the ANS • Its higher centers. • Autonomics receptors and chemical transmitters.	7.14%
	0.25		2.5 hours ➤ Blood • General components of blood and its functions. • Mechanism of blood coagulation. • Clinical conditions occurring due to abnormalities of one or more of the blood components.	7.14 %
	0.25		2.5 hours ➤ Acid base balance • Mechanisms and abnormalities	7.14 %
	0.25		2.5 hour ➤ Metabolism • Regulation of body temperature: ✓ Centre and mechanism for regulation of body temperature. ✓ Reaction of body on exposure to cold and hot ➤ Abnormalities of regulation of body temperature.	7.14%



كلية الطب



Chest Department
Faculty of Medicine

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
	0.5		5 hours ➤ Cardiovascular system <ul style="list-style-type: none">• Innervation of the heart• Regulation of the heart rate.• Cardiac out put and its components.• Arterial blood pressure and its regulation.• Pulmonary and coronary circulation.• Haemorrhage and its compensatory reaction.• ECG and its clinical significant.	14.3%
Student signature			Principle coordinator signature	Head of the department signature



Applied Chest Pathology

Requirements

- Credit points: 3.5 credit point
- Minimal rate of attendance 80%

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Pathology	0.5	Pathology	2.5 hours Principles of General Pathology of: <ul style="list-style-type: none"> - Disturbance of circulation - Immunity & hypersensitivity. - Bacterial infection. - Disturbance of growth - Pathology of tumors - Diagnostic cytology. 	14.3% %
	0.5		5 hours <ul style="list-style-type: none"> - Tuberculosis. 	14.3%
	0.5		5 hours Pathologic Details of: A. Cardiovascular System: <ul style="list-style-type: none"> - Pulmonary hypertension - Cor pulmonale - Heart failure 	14.3%
	2		20 hours B. Respiratory System: <ul style="list-style-type: none"> - Pathology of the lung - Pathology of the pleura - Pathology of the mediastinum - Pathology of the diaphragm 	57.1
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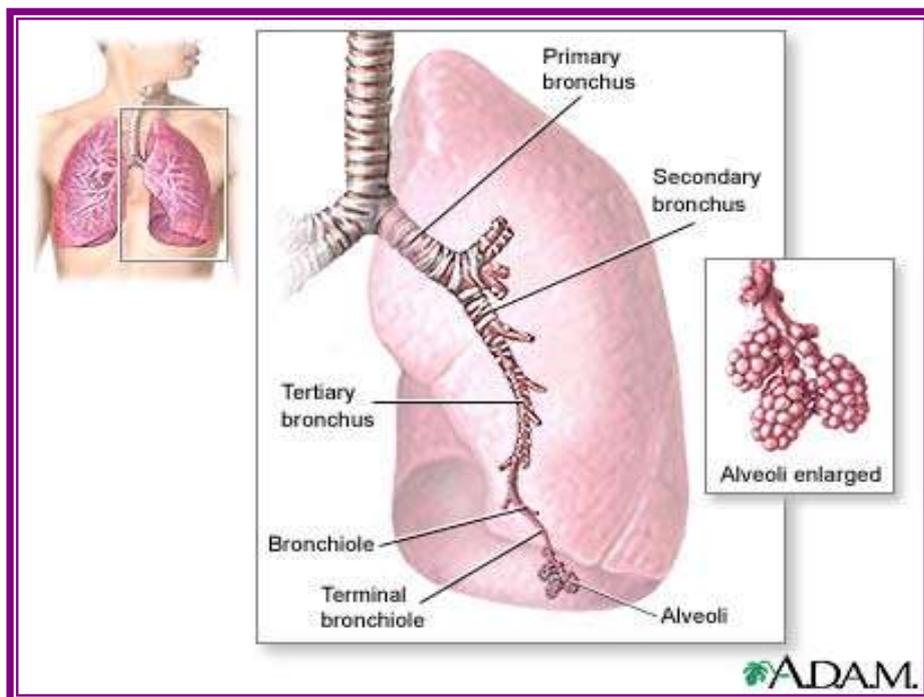


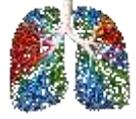
Course 6 Chest Diseases & Tuberculosis

Units' Titles' list	% from total Marks	Level (Year)	Core Credit points		
			Didactic	training	Total
1) Unit 1 "Pulmonary Medicine & Tuberculosis."	70%	1,2&3	17	85.9	102.9
2) Unit 2 " Respiratory Intensive Care Medicine	10%	2&3	3	11.7	14.7
3) Unit 3 " Pulmonary Functions Testing"	10%	3&4	2	12.7	14.7
4) Unit 4 "Diagnostic and Interventional Bronchology"	5%	2&3	1	6.35	7.35
5) Unit 5 "sleep Medicine"	5%	3&4	1	6.35	7.35
Total No. of Units:	5	1,2,3&4	24	123	147

Unit (Module) 1

Pulmonary Medicine & Tuberculosis





Unit (Module)1

(Pulmonary Medicine & Tuberculosis)

Rotation / attendance proof

الأماكن التي تدرب بها

توقيع مدير المستشفى	توقيع رئيس القسم	أسم المستشفى التي تدرب بها

Requirements

- **Credit points:** 17credit point for didactic (lectures, seminars, tutorial) and 85.9 point for training.
- Minimal rate of attendance 80% of training and didactic



Year 1

(25.9 credit point for training)

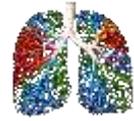
Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Chest department	8	Chest department	<ul style="list-style-type: none"> ➤ Practice with clinical cases for at least 2 month in the department including interpretation of their different radiologic patterns (in CXR & CT chest) and related laboratory investigation ➤ Log of pulmonary cases as mentioned below ➤ Procedures log as mentioned below 	30.5%
	10		<ul style="list-style-type: none"> ➤ Night shift (From 2pm to 8am) 1/week for 20 weeks 	38.5%
	2		<ul style="list-style-type: none"> ➤ Attendance of at least 4 weeks in the Outpatient clinic (3 hours /day) 	8 %
	2		<ul style="list-style-type: none"> ➤ Attendance of at least 30% of clinical rounds of each one of the 3 staff groups (2 hours /week for 30 week) 	8%
	2		<ul style="list-style-type: none"> ➤ Attend clinical teaching and clinical teaching for students 2 hours /week for 30 week 	8 %
	1.9		<ul style="list-style-type: none"> ➤ Formative assessment 	7%
Student signature			Principle coordinator Signature	Head of the department signature



Pulmonary cases log

Log of:

Case	Number
Acute infection : URT , trachea and bronchi	20 case
Pneumonia	10 cases
Empyema	As logged of 5 As
Lung abscess	logged of
Tuberculosis	20 case
Chronic bronchitis and Emphysema	20 cases
Respiratory failure	20 cases
Pulmonary embolism	10 cases
Pulmonary hypertention	10 cases
Pulmonary edema and Acute respiratory distress syndrome	As logged of
Bronchiectasis	5 cases
Bronchial asthma	20 cases
Hypersensitivity pneumonitis	5 cases
Pneumothorax	5 cases
Pulmonary neoplasms	10 cases
IPF	10 cases
Pulmonary diseases in systemic diseases	As logged of
Development disorders of the lungs	As logged of
Diseases of the Pleura	10 cases
Diseases of the mediastinum	As logged of
Other less common chest diseases	As logged of



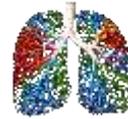
Procedure log of:

Order and interpret	Independently perform
<ul style="list-style-type: none">• 20 chest x ray• 20 chest CT• 5 chest MRI• 2 Fluoroscopy• 2 Lung scan	<ul style="list-style-type: none">• 20 chest sonography• 10 pleural aspiration• 10 pleural and lung biopsy• 5 ICT insertion• 10 pleurodesis• 5 Postural drainage• 5 Chest physiotherapy• 10 Different methods of oxygen therapy• 10 Inhalation therapy• 10 Tuberculin test

Year 2

(8.5 credit point for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 1 Pulmonary Medicine & TB	8.5	Chest	Year 2	50% of the didactics of Unit 1
	5.5		Topics and attendance	64.7%
	0.5		2.5 hours by the candidates Section 1: Lung Immunology 1. Pulmonary Defense Mechanisms against Infections 2. Lymphocyte- and Macrophage-Mediated Inflammation in the Lung 3. Mast Cells and Eosinophils 4. Antibody-Mediated Lung Defenses and Humoral Immunodeficiency	
	0.5		2.5 hours by the candidates Section 2: Lung Injury and Repair 1. Cytokines and Chemokines in Lung Inflammation and Injury 2. Leukocyte Accumulation in Pulmonary Disease 3. Oxidative and Nitrosative Lung Injury 4. The Pathogenesis of Pulmonary Fibrosis	
	0.5		2.5 hours by the candidates Section 3: Symptoms and signs of respiratory diseases 1. Approach to the Patient with Respiratory Symptoms 2. Skin Disease in Patients with Pulmonary Disease 3. Pulmonary-Systemic Interactions 5. Evaluation of Impairment and Disability Due to Lung Disease	



Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 1	1	Chest	<p>10 hours</p> <p>Section 4: Obstructive lung diseases</p> <p>A. Chronic Obstructive Pulmonary Disease</p> <ol style="list-style-type: none"> 1. Pathologic Features of Chronic Obstructive Pulmonary Disease: Diagnostic Criteria and Differential Diagnosis 2. Chronic Obstructive Pulmonary Disease: Epidemiology, Pathophysiology, and Pathogenesis 3. Chronic Obstructive Pulmonary Disease: Clinical Course and Management 4. Cigarette Smoking and Disease 5. Rehabilitation in Chronic Obstructive Pulmonary Disease and Other Respiratory Disorders <p>B. Bronchial Asthma</p> <ol style="list-style-type: none"> 1. The Biology of Asthma 2. Asthma: Epidemiology 3. Aspirin- and Exercise-Induced Asthma 4. Asthma: Clinical Presentation and Management 5. Allergic Bronchopulmonary Aspergillosis (Mycosis) <p>C. Other Obstructive Disorders</p> <ol style="list-style-type: none"> 1. Upper Airway Obstruction in Adults 2. Cystic Fibrosis 3. Bronchiolitis 4. Bullous Disease of the Lung 	



Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 1	1	Chest	<p>5 hours by the candidates</p> <p>Section 5: Occupational and Environmental diseases</p> <p>A. Occupational Disorders</p> <ol style="list-style-type: none"> Occupational Lung Disorders: General Principles and Approaches Asbestos-Related Lung Disease Chronic Beryllium Disease and Hard-Metal Lung Diseases Coal Workers' Lung Diseases and Occupational Asthma, Byssinosis, and Industrial Bronchitis Acute and Chronic Responses to Toxic Inhalations <p>B. Environmental Disorders</p> <ol style="list-style-type: none"> Indoor and Outdoor Air Pollution High-Altitude Physiology and Clinical Disorders Diving Injuries and Air Embolism Thermal Lung Injury and Acute Smoke Inhalation <p>Section 6: Drug – induced lung diseases</p> <ol style="list-style-type: none"> Pulmonary Toxicity Associated with Chemotherapeutic Agents Drug-Induced Lung Disease Due to Non chemotherapeutic Agents 	



Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 1	1	Chest	<p>10 hour</p> <p>Section 7: Interstitial and inflammatory lung diseases</p> <p>A. Immunologic and Interstitial Diseases</p> <ol style="list-style-type: none"> 1. Interstitial Lung Disease: A Clinical Overview and General Approach 2. Systemic Sarcoidosis 3. Idiopathic Pulmonary Fibrosis 4. Hypersensitivity Pneumonitis 5. Radiation Pneumonitis 6. Pulmonary Manifestations of the Collagen Vascular Diseases 7. The Eosinophilic Pneumonias <p>B. Depositional and Infiltrative Disorders</p> <ol style="list-style-type: none"> 1. Depositional Diseases of the Lungs 2. Pulmonary Langerhan's-Cell Histiocytosis 3. Pulmonary Lymphangioleiomyomatosis 4. The Lungs in Patients with Inborn Errors of Metabolism <p>Section 8: Alveolar diseases</p> <ol style="list-style-type: none"> 1. Alveolar Hemorrhage Syndromes 2. Mechanisms of Aspiration 3. Pulmonary Alveolar Proteinosis 	



Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 1	0.5	Chest	5 hours Section 9: Disorders of pulmonary circulation 1. The Pulmonary Circulation 2. Pulmonary Hypertension and Cor Pulmonale 3. Pulmonary Thromboembolic Disease 4. Pulmonary Vasculitis 5. Pulmonary Arteriovenous Malformations	
	0.5		5 hours Section 10: Disorders of the pleural space 1. Non-Malignant Pleural Effusions 2. Malignant Pleural Effusions 3. Pneumothorax 4. Malignant Mesothelioma and Other Primary Pleural Tumors	
	1.5		Seminars ➤ Attendance of at least 50% of the clinical seminars ➤ Presentation of at least 1 time in the seminar	17.6%
	1		Conference or workshop	11.8%
	0.5		Formative assessment	5.9%
Student signature			Principle coordinator Signature	Head of the department signature



Year 2

(25 credit point for training in Unit 1)

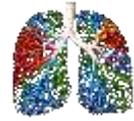
Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Chest department	8	Chest department	<ul style="list-style-type: none"> ➤ Practice with clinical cases for at least 2 month in the department including interpretation of their different radiologic patterns (in CXR & CT chest) and related laboratory investigation ➤ Log of pulmonary cases as mentioned below ➤ Procedures log as mentioned below 	32%
	9.5		<ul style="list-style-type: none"> ➤ Night shift (From 2pm to 8am) 1/week for 19 weeks 	38%
	2		<ul style="list-style-type: none"> ➤ Attendance of at least 4 weeks in the Outpatient clinic (3 hours /day) 	8 %
	2		<ul style="list-style-type: none"> ➤ Attendance of at least 30% of clinical rounds of each one of the 3 staff groups (2 hours /week for 30 week) 	8%
	2		<ul style="list-style-type: none"> ➤ Attend clinical teaching and clinical teaching for students 2 hours /week for 30 week 	8 %
	1.5		<ul style="list-style-type: none"> ➤ Formative assessment 	6%
Student signature			Principle coordinator Signature	Head of the department signature



Pulmonary cases log

Log of:

Case	Number
Acute infection : URT , trachea and bronchi	20 case
Pneumonia	10 cases
Empyema	As logged of 5 As
Lung abscess	logged of
Tuberculosis	20 case
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Respiratory failure	20 cases
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Bronchial asthma	20 cases
Hypersensitivity pneumonitis	5 cases
Pneumothorax	5 cases
Pulmonary neoplasms	10 cases
IPF	10 cases
Pulmonary diseases in systemic diseases	As logged of
Development disorders of the lungs	As logged of
Diseases of the Pleura	10 cases
Diseases of the mediastinum	As logged of
Other less common chest diseases	As logged of



Procedure log of:

Order and interpret	Independently perform
<ul style="list-style-type: none">• 20 chest x ray• 20 chest CT• 5 chest MRI• 2 Fluoroscopy• 2 Lung scan	<ul style="list-style-type: none">• 20 chest sonography• 10 pleural aspiration• 10 pleural and lung biopsy• 5 ICT insertion• 10 pleurodesis• 5 Postural drainage• 5 Chest physiotherapy• 10 Different methods of oxygen therapy• 10 Inhalation therapy• 10 Tuberculin test

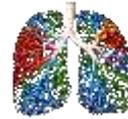
Year 3

(8.5 credit point for didactic)

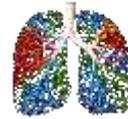
Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 1 Pulmonary Medicine & TB	8.5	Chest	Year 2	50% of the didactics of Unit 1
	5.5		Topics and attendance	64.7%
	0.5		2.5 hours by the candidates Section 11: Diseases of the mediastinum 1. Nonneoplastic Disorders of the Mediastinum 2. Congenital Cysts of the Mediastinum: Bronchopulmonary Foregut Anomalies 6. Acquired Lesions of the Mediastinum: Benign and Malignant	
	0.5		2.5 hours by the candidates Section 12: Disorders of chest wall, Diaphragm and Spine 1. Nonmuscular Diseases of the Chest Wall 2. Effects of Neuromuscular Diseases on Ventilation. 5. Management of Neuromuscular Respiratory Muscle Dysfunction	
	0.5		2.5 hours by the candidates Section 13: Surgical Aspects of pulmonary medicine 1. Perioperative Care of the Patient Undergoing Lung Resection 2. Thoracic Trauma 3. Lung Transplantation	



Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 1	1	Chest	<p>10 hours</p> <p>Section 14: Neoplasms of the lungs</p> <p>A. Cancer of the Lungs</p> <ol style="list-style-type: none"> 1. Genetic and Molecular Changes of Human Lung Cancer 2. The Solitary Pulmonary Nodule: A Systematic Approach 3. The Pathology of Non–Small Cell Lung Carcinoma 4. Treatment of Non–Small-Cell Lung Cancer: Surgical 5. Treatment of Non-Small-Cell Lung Cancer: Chemotherapy 6. Treatment of Non–Small-Cell Lung Cancer: Radiation Therapy 7. Small Cell Lung Cancer: Diagnosis, Treatment, and Natural History 8. Primary Lung Tumors Other Than Bronchogenic Carcinoma: Benign and Malignant 9. Extrapulmonary Syndromes Associated with Lung Tumors 10. Pulmonary Metastases <p>B. Lymphoproliferative Disorders</p> <ol style="list-style-type: none"> 1. Lymphoproliferative and Hematologic Diseases Involving the Lung and Pleura 	
	1		<p>10 hours</p> <p>Section 15: Infectious Diseases of the lung</p> <ol style="list-style-type: none"> 1. Pulmonary Clearance of Infectious Agents 2. Approach to the Patient with Pulmonary Infection 3. The Radiology of Pulmonary Infection 4. The Pathology of Pulmonary Infection 5. Principles of Antibiotic Use and the Selection of Empiric Therapy for Pneumonia 6. Vaccination against Pulmonary Infections 7. Microbial Virulence Factors in Pulmonary Infections 	



Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 1		Chest	<p>Common Syndromes in Pulmonary Infectious Diseases</p> <ol style="list-style-type: none"> 1. Infections of the Upper Respiratory Tract 2. Acute Bronchitis and Community-Acquired Pneumonia 3. Acute Exacerbations of Chronic Obstructive Pulmonary Disease 4. Pneumonia in Childhood 5. Aspiration, Empyema, Lung Abscesses, and Anaerobic Infections 6. Mediastinitis 7. Microbiology and Infection in Cystic Fibrosis 8. Bronchiectasis <p>Pulmonary Infections in Special Hosts</p> <ol style="list-style-type: none"> 1. Pneumonia in Surgery and Trauma 2. Pulmonary Infection in Immunocompromised Hosts 3. HIV and Pulmonary Infections <p>Major Pathogens in Pulmonary Infections</p> <ol style="list-style-type: none"> 1. Pneumonia Caused by Gram-Positive Bacteria 2. Nosocomial Pneumonia 3. <i>Aspergillus</i>, <i>Candida</i>, and Other Opportunistic Mold Infections of the Lung 4. Cryptococcosis and the Endemic Mycoses 5. <i>Pneumocystis</i> Pneumonia 6. Viral Infections 7. Protozoan Infections of the Thorax 8. Helminthic Diseases of the Lungs 9. Zoonotic and Unusual Bacterial Pneumonias 	
	0.5		<p>5 hours</p> <p>Mycobacterial Infections</p> <ol style="list-style-type: none"> 1. The Epidemiology, Prevention, and Control of Tuberculosis 2. The Microbiology, Virulence, and Immunology of Mycobacteria 3. Clinical Presentation and Treatment of TB 4. Mycobacterial Infections and HIV Infection 5. Diseases due to Non-Tuberculous Mycobacteria 	



Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 1	0.5	Chest	5 hours Section 16: Acute respiratory failure A. Lung Failure 1. Respiratory Failure: An Overview 2. Acute Respiratory Distress Syndrome: Pathogenesis 3. Acute Lung Injury and the Acute Respiratory Distress Syndrome: Clinical Features, Management, and Outcomes 4. Sepsis, Systemic Inflammatory Response Syndrome, and Multiple Organ Dysfunction Syndrome 5. Acute Respiratory Failure in the Surgical Patient B. Respiratory Pump Failure 1. Pump Failure: The Pathogenesis of Hypercapnic Respiratory Failure in Patients with Lung and Chest Wall Disease C. Management and Therapeutic Interventions 1. Oxygen Therapy and Pulmonary Oxygen Toxicity 2. Pulmonary Pharmacotherapy 3. Nutrition in Acute Respiratory Failure	
	1		5 hours by the candidate Section 17: Updates in pulmonary medicine	
	1.5		Seminars ➤ Attendance of at least 50% of the clinical seminars ➤ Presentation of at least 1 time in the seminar	17.6%
	1		Conference or workshop	11.8%
	0.5		Formative assessment	5.9%
Student signature			Principle coordinator Signature	Head of the department signature



(25 credit point for training in Unit 1)

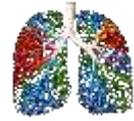
Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Chest department	8	Chest department	<ul style="list-style-type: none"> ➤ Practice with clinical cases for at least 2 month in the department including interpretation of their different radiologic patterns (in CXR & CT chest) and related laboratory investigation ➤ Log of pulmonary cases as mentioned below ➤ Procedures log as mentioned below 	32%
	9.5		<ul style="list-style-type: none"> ➤ Night shift (From 2pm to 8am) 1/week for 19 weeks 	38%
	2		<ul style="list-style-type: none"> ➤ Attendance of at least 4 weeks in the Outpatient clinic (3 hours /day) 	8 %
	2		<ul style="list-style-type: none"> ➤ Attendance of at least 30% of clinical rounds of each one of the 3 staff groups (2 hours /week for 30 week) 	8%
	2		<ul style="list-style-type: none"> ➤ Attend clinical teaching and clinical teaching for students 2 hours /week for 30 week 	8 %
	1.5		<ul style="list-style-type: none"> ➤ Formative assessment 	6%
Student signature			Principle coordinator Signature	Head of the department signature



Pulmonary cases log

Log of:

Case	Number
Acute infection : URT , trachea and bronchi	20 case
Pneumonia	10 cases
Empyema	As logged of 5 As
Lung abscess	logged of
Tuberculosis	20 case
Chronic bronchitis and Emphysema	20 cases
Respiratory failure	20 cases
Pulmonary embolism	10 cases
Pulmonary hypertention	10 cases
Pulmonary edema and Acute respiratory distress syndrome	As logged of
Bronchiectasis	5 cases
Bronchial asthma	20 cases
Hypersensitivity pneumonitis	5 cases
Pneumothorax	5 cases
Pulmonary neoplasms	10 cases
IPF	10 cases
Pulmonary diseases in systemic diseases	As logged of
Development disorders of the lungs	As logged of
Diseases of the Pleura	10 cases
Diseases of the mediastinum	As logged of
Other less common chest diseases	As logged of



Procedure log of:

Order and interpret	Independently perform
<ul style="list-style-type: none">• 20 chest x ray• 20 chest CT• 5 chest MRI• 2 Fluoroscopy• 2 Lung scan	<ul style="list-style-type: none">• 20 chest sonography• 10 pleural aspiration• 10 pleural and lung biopsy• 5 ICT insertion• 10 pleurodesis• 5 Postural drainage• 5 Chest physiotherapy• 10 Different methods of oxygen therapy• 10 Inhalation therapy• 10 Tuberculin test



Year 4

(10 credit point for training in Unit 1)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Chest department	5	Chest department	➤ Night shift (From 2pm to 8am) 1/week for 10 weeks	50%
	2		➤ Attendance of at least 30% of clinical rounds of each one of the 3 staff groups (2 hours /week for 30 week)	20%
	2		➤ Attend clinical teaching and clinical teaching for students 2 hours /week for 30 week	20 %
	1		➤ Formative assessment	10%
Student signature			Principle coordinator Signature	Head of the department signature



كلية الطب



Chest Department
Faculty of Medicine

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)	strongly agree (7)
Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of his field.								
Appraise scientific evidence.								
Continuously improve patient care based on constant self-evaluation and <u>life long learning</u> .								
Participate in clinical audit and research projects.								



General skills	could not judge (0)	strongly disagree(1)	(2)		(3)		(4)		(5)		strongly agree (7)
			(2)	(3)	(4)	(5)	(6)	(7)			
Practice skills of evidence-based Medicine (EBM).											
Educate and evaluate students, residents and other health professionals.											
Design logbooks.											
Design clinical guidelines and standard protocols of management.											
Appraise evidence from scientific studies related to the patients' health problems.											
Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.											
Use information technology to manage information, access on- line medical information; for the important topics.											
Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:- <ul style="list-style-type: none"> • <u>Present</u> a case. • <u>Write</u> a consultation note. • <u>Inform patients</u> of a diagnosis and therapeutic plan Completing and maintaining comprehensive. • Timely and legible <u>medical records</u>. • Teamwork skills. 											



كلية الطب

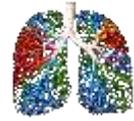


Chest Department
Faculty of Medicine

General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Create and sustain a therapeutic and ethically sound relationship with patients.								
Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.								
Work effectively with others as a member or leader 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, and business practices.								
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.								
Work effectively in health care delivery settings and systems related to specialty including good administrative and time management.								
Practice cost-effective healthcare and resource allocation that does not compromise quality of care.								



كلية الطب



Chest Department
Faculty of Medicine

General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Advocate for quality patient care and assist patients in dealing with system complexities.								
Design, monitor and evaluate specification of under and post graduate courses and programs.								
Act as a chair man for scientific meetings including time management								

Unit 2

Respiratory Intensive Care Medicine





كلية الطب



Chest Department
Faculty of Medicine

Unit (Module) 2
Respiratory Intensive Care Medicine
Rotation / attendance proof
الأماكن التي تدرّب بها

توقيع مدير المستشفى	توقيع رئيس القسم	أسم المستشفى التي تدرّب بها

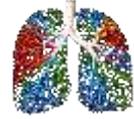
Unit (Module) Respiratory Intensive Care Medicine

A - Clinical case log

Requirements

Requirements

- **Credit points: 3 for didactic (lectures, seminars, tutorial) and 11.7 point for training.**
 - **Minimal rate of attendance 80% of training and didactic**
 - **One MCQ examination at the first half of the third year**



Year 2

(1.5 credit point for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 2	1.5	Chest	Year 2	50% of the didactics of Unit 2
Respiratory Intensive Care Medicine	0.5		5 hours Section 1: Basic and advanced life support Section 2: Preventive practice in critically ill ➤ Infection control in ICU ➤ Alimentary prophylaxis ➤ Venous thromboembolism Section 3: Indications of admission to ICU Section 4: Vascular access: Section 5: Airway management ➤ Nasal and oral airways ➤ Laryngeal mask airway ➤ Endotraheal tube ➤ Suction	
	0.25		2.5 hours Section 6: Haemodynamic monitoring ➤ Arterial blood pressure ➤ Pulmonary artery pressure ➤ Central venous pressure and pulmonary artery wedge pressure. ➤ Cardiac output ➤ Oxygen delivery & tissue oxygenation ➤ Arrhythmias ➤ Haemodynamic drug infusion	



كلية الطب



Chest Department
Faculty of Medicine

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
	0.5		5 hours Section 7: Invasive & noninvasive assessment of arterial blood gases 1. Acid base status 2. Hypoxaemia and hypercapnia 3. Pulse oximetry 4. End tidal CO ₂ 5. Transcutaneous O ₂ and CO ₂ .	
	0.25		2.5 hours Section 8: The most common electrolyte disorders 1. Hypokalemia 2. Hypomagnesemia 3. Hyponatremia 4. Hypocalcaemia.	
Student signature			Principle coordinator Signature	Head of the department signature



(5 credit point for Training in Unit 2)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Respiratory ICU	5	Chest department	Year 2	43% of the training in Unit 2
Clinical training in Respiratory ICU	3		<ul style="list-style-type: none">➤ Practice with clinical cases for at least 3 weeks in the Respiratory ICU including interpretation of their different radiologic patterns (in CXR & CT chest) and related laboratory investigation➤ Log of pulmonary cases as mentioned below➤ Procedures log as mentioned below	60%
	2		<ul style="list-style-type: none">➤ Night shift (From 2 pm to 8 am) 1 night shift/week for 4 weeks	40%
Student signature			Principle coordinator Signature	Head of the department signature



Log of cases:

Case	Number
Pneumonia	10 cases
Chronic bronchitis and Emphysema	50 cases
Respiratory failure	50 cases
Pulmonary embolism	10 cases
Pulmonary edema and Acute respiratory distress syndrome	10 cases
Bronchial asthma	10 cases
Hypersensitivity pneumonitis	5 cases
IPF	10 cases
Electrolyte Disorders	20 cases
Other less common chest diseases	As logged of

Log of procedure:

 Log at least
<ul style="list-style-type: none"> - Order and perform ventilator adjustment 15 cases - Order and perform CVP 5 cases - Perform Oral airway placement 15 cases - Perform ABG sampling 15 cases as logged in pulmonary Function Testing Unit - Interpret haemodynamic Monitoring 10 cases - Interpret ABG sampling 25 reports as logged in pulmonary Function Testing
 Prescribe & Perform
<ul style="list-style-type: none"> • Syring pump adjustment 10 case • Intubation and mechanical ventilation 10 case • NIV & IPPV modes and settings 20 case • Weaning from mechanical ventilation 10 case



Year 3

(1.5 credit point for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 2	1.5	Chest	Year 3	50% of the didactics of Unit 2
Respiratory Intensive Care Medicine	0.25		2.5 hours Section 9: Infection in ICU ➤ Ventilator associated pneumonia ➤ Sepsis syndrome. ➤ Empirical antibiotic therapy	
	1		10 hours Section 10: Mechanical ventilation ➤ Objectives of mechanical ventilation ➤ Indications of mechanical ventilation ➤ Modes and settings of mechanical ventilation ➤ Weaning from mechanical ventilation ➤ Non invasive positive pressure ventilation ➤ Complications of mechanical ventilation ➤ Sedation and muscle relaxants	

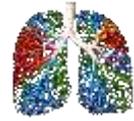


Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 2	1.5	Chest	Year 3	50% of the didactics of Unit 2
Respiratory Intensive Care Medicine	0.25		2.5 hours Section 11: Nutrition ➤ Metabolic substrate requirements ➤ Enteral tube feeding ➤ Total parenteral nutrition Section 12: Specific management and ventilatory strategies in pulmonary syndromes ➤ ARDS ➤ Cardiogenic pulmonary oedema ➤ Acute exacerbation of COPD ➤ Status asthmaticus ➤ Acute pulmonary embolism ➤ Idiopathic pulmonary fibrosis ➤ Bullous Disease of the Lung ➤ Pulmonary Lymphangiomyomatosis ➤ Alveolar Hemorrhage Syndromes	
			Section 13: Management and Therapeutic Interventions ➤ Agitation in the Intensive Care Unit ➤ Decision Making in the Intensive Care Unit ➤ 3. Ethics in the Intensive Care Unit	
Student signature			Principle coordinator Signature	Head of the department signature



(6.7 credit point for training in Unit 2)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Respiratory ICU	6.7	Chest department	Year 3	57% of the training in Unit 2
Clinical training in Respiratory ICU	4		<ul style="list-style-type: none"> ➤ Practice with clinical cases for at least 4 weeks in the Respiratory ICU including interpretation of their different radiologic patterns (in CXR & CT chest) and related laboratory investigation ➤ Log of pulmonary cases as mentioned below ➤ Procedure log as mentioned below 	59.5
	1.5		<ul style="list-style-type: none"> ➤ Night shift (From 2 pm to 8 am) ➤ 1 night shift/week for 3 weeks 	22.5
	1.2		➤ Formative assessment	18
Student signature			Principle coordinator Signature	Head of the department signature



Log of cases:

Case	Number
Pneumonia	10 cases
Chronic bronchitis and Emphysema	50 cases
Respiratory failure	50 cases
Pulmonary embolism	10 cases
Pulmonary edema and Acute respiratory distress syndrome	10 cases
Bronchial asthma	10 cases
Hypersensitivity pneumonitis	5 cases
IPF	10 cases
Electrolyte Disorders	20 cases
Other less common chest diseases	As logged of

Log of procedure:

 Log at least
<ul style="list-style-type: none"> - Order and perform ventilator adjustment 15 cases - Order and perform CVP 5 cases - Perform Oral airway placement 15 cases - Perform ABG sampling 15 cases as logged in pulmonary Function Testing Unit - Interpret haemodynamic Monitoring 10 cases - Interpret ABG sampling 25 reports as logged in pulmonary Function Testing
 Prescribe & Perform
<ul style="list-style-type: none"> • Syring pump adjustment 10 case • Intubation and mechanical ventilation 10 case • NIV & IPPV modes and settings 20 case • Weaning from mechanical ventilation 10 case



كلية الطب



Chest Department
Faculty of Medicine

Postgraduate student's program Rotation in training assessment

* **Name:**

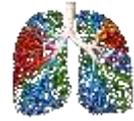
* **Period of training From:**

To:

* **Site:**

*Rotation

General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of his field.								
Appraise scientific evidence.								
Continuously improve patient care based on constant self-evaluation and <u>life-long learning</u> .								
Participate in clinical audit and research projects.								



General skills	could not judge (0)	strongly disagree(1)	(2)		(3)		(4)		(5)		(6)	strongly agree (7)
Practice skills of evidence-based Medicine (EBM).												
Educate and evaluate students, residents and other health professionals.												
Design logbooks.												
Design clinical guidelines and standard protocols of management.												
Appraise evidence from scientific studies related to the patients' health problems.												
Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.												
Use information technology to manage information, access on- line medical information; for the important topics.												
Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:- <ul style="list-style-type: none"> • <u>Present</u> a case. • <u>Write</u> a consultation note. • <u>Inform patients</u> of a diagnosis and therapeutic plan Completing and maintaining comprehensive. • Timely and legible <u>medical records</u>. • Teamwork skills. 												



كلية الطب



Chest Department
Faculty of Medicine

General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Create and sustain a therapeutic and ethically sound relationship with patients.								
Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.								
Work effectively with others as a member or leader 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, and business practices.								
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.								
Work effectively in health care delivery settings and systems related to specialty including good administrative and time management.								
Practice cost-effective healthcare and resource allocation that does not compromise quality of care.								



كلية الطب

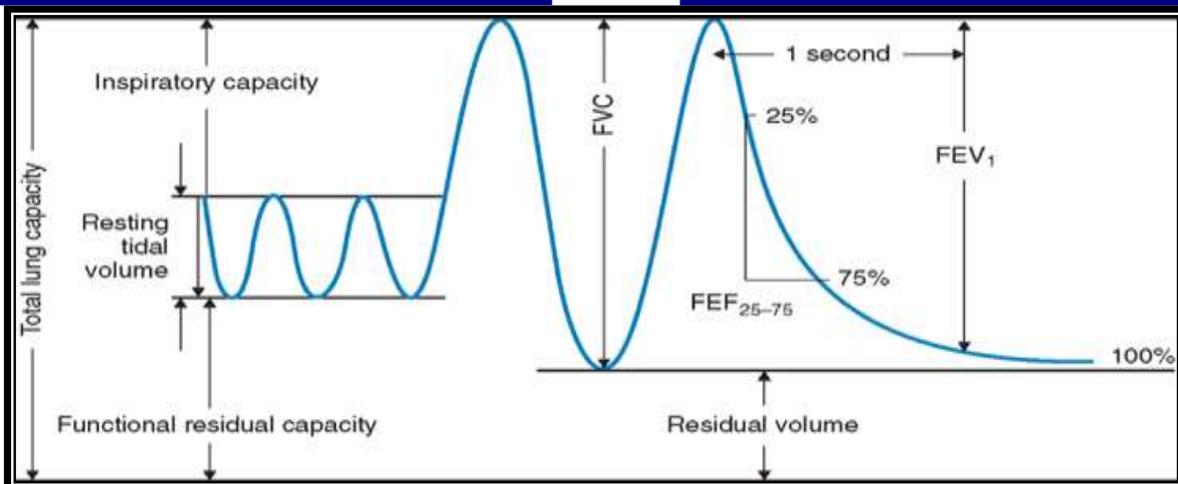
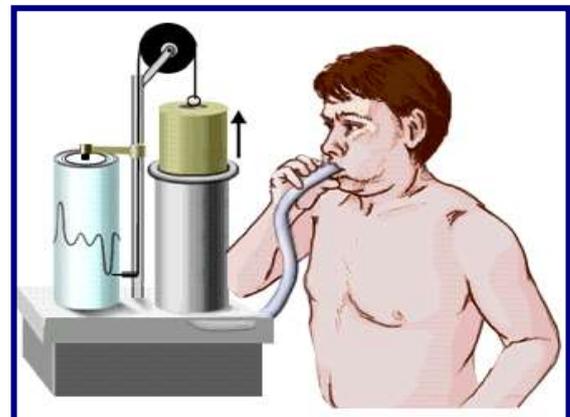
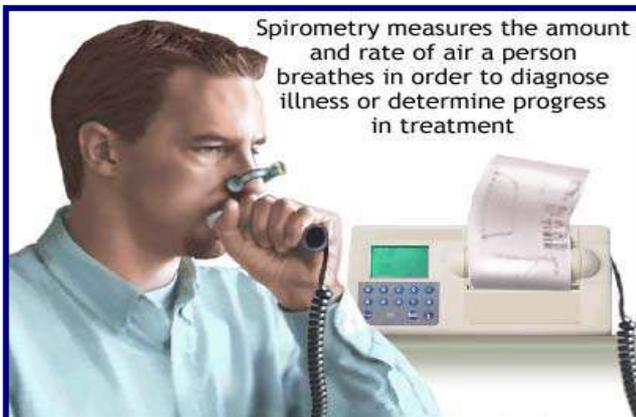


Chest Department
Faculty of Medicine

General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Advocate for quality patient care and assist patients in dealing with system complexities.								
Design, monitor and evaluate specification of under and post graduate courses and programs.								
Act as a chair man for scientific meetings including time management								

Unit (Module) 3

Pulmonary Function Testing





Unit (Module) 3

Unit(Module) Pulmonary Function Testing

Rotation / attendance proof

الأماكن التي تدرب بها

توقيع مدير المستشفى	توقيع رئيس القسم	أسم المستشفى التي تدرب بها

Unit (Module) 3

Pulmonary Function Testing

Unit (Module) Pulmonary Function Testing

Requirement

● **Credit points: 2 points for didactic (lectures, seminars, tutorial) and 12.7 point for training.**

- Minimal rate of attendance 80% of training and didactic
- MCQ Assessment (One MCQ examination at the first half of the fourth year)



Year 3

(1 credit point for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 3	1	Chest	Year 3	50% of the didactics of Unit 3
Pulmonary Function Testing	0.25		<ul style="list-style-type: none">➤ Pulmonary dysfunction in different chest disease➤ Indication of pulmonary function testing	
	0.5		<ul style="list-style-type: none">➤ Spirometry and flow volume loop➤ Reversibility testing	
	0.25		<ul style="list-style-type: none">➤ Blood gases and its disturbances	
	0.25		<ul style="list-style-type: none">➤ Diffusions	
Student signature			Principle coordinator Signature	Head of the department signature



(6 credit point for Training in Unit 3)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Pulmonary Function Testing unit	6	Chest department	Year 3	47% of the training in Unit 3
	6		<ul style="list-style-type: none">➤ Practice for at least 6 weeks Pulmonary Function Testing unit➤ Log of pulmonary cases as mentioned below➤ Procedures log as mentioned below	100%
Student signature			Principle coordinator Signature	Head of the department signature

• Log of the following cases

Case	Number
- Bronchial Asthma*	30 cases
- COPD*	30 cases
- Interstitial lung diseases*	25 cases
- Occupational lung diseases	5 cases
- Respiratory Failure*	30 cases
- Unexplained dyspnea	5 cases
- Preoperative evaluation	10 cases
- Pulmonary dysfunction in different chest disease	25 cases
- Indication of pulmonary function testing	25 cases

* As logged in Unit (Module) Pulmonary Medicine and Tuberculosis

✚ Log of :

➤ Perform 25 Blood gases
➤ Perform 15 spirometry
➤ Perform 2 Lung volumes
➤ Perform 2 Diffusion
➤ Perform 2 CPET
➤ Interpret 25 Spirometry
➤ Interpret 25 Blood gases
➤ Interpret 15 Lung volumes
➤ Interpret 15 Diffusion
➤ Interpret 5 CPET
➤ Prescribe and perform 15 Reversibility test
➤ Prescribe and perform 25 Oxygen therapy



Year 4

(1 credit point for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 3	1	Chest	Year 4	50% of the didactics of Unit 3
Pulmonary Function Testing	0.25		<ul style="list-style-type: none"> ➤ Lung volumes ➤ Airway resistance 	
	0.25		<ul style="list-style-type: none"> ➤ Exercise testing ➤ Ventilation/perfusion matching ➤ Disability evaluation ➤ Compliance ➤ Pre-operative evaluation of PF 	
	0.25		<ul style="list-style-type: none"> ➤ Respiratory muscle function ➤ PFT in ICU ➤ Small airway function ➤ Bronchial provocation testing ➤ Potable Peak expiratory flow rate ➤ Unexplained dyspnea 	
	0.25		<ul style="list-style-type: none"> ➤ Interpretation of pulmonary function test 	
Student signature			Principle coordinator Signature	Head of the department signature



(6.7 credit point for training in Unit 3)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Pulmonary Function Testing unit	6.7	Chest department	Year 4	53 of the training in Unit 3
	5		<ul style="list-style-type: none">➤ Practice for at least 5 weeks in Pulmonary Function Testing unit➤ Log of pulmonary cases as mentioned below➤ Procedures log as mentioned below	75%
	1.7		<ul style="list-style-type: none">➤ Formative assessment	25%
Student signature			Principle coordinator Signature	Head of the department signature



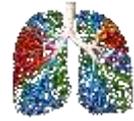
• Log of the following cases

Case	Number
- Bronchial Asthma*	30 cases
- COPD*	30 cases
- Interstitial lung diseases*	25 cases
- Occupational lung diseases	5 cases
- Respiratory Failure*	30 cases
- Unexplained dyspnea	5 cases
- Preoperative evaluation	10 cases
- Pulmonary dysfunction in different chest disease	25 cases
- Indication of pulmonary function testing	25 cases

* As logged in Unit (Module) Pulmonary Medicine and Tuberculosis

✚ Log of :

➤ Perform 25 Blood gases
➤ Perform 10 spirometry
➤ Perform 3 Lung volumes
➤ Perform 3 Diffusion
➤ Perform 3 CPET
➤ Interpret 25 Spirometry
➤ Interpret 25 Blood gases
➤ Interpret 10 Lung volumes
➤ Interpret 10 Diffusion
➤ Interpret 5 CPET
➤ Prescribe and perform 10 Reversibility test
➤ Prescribe and perform 25 Oxygen therapy



C- Procedures log book Perform Lung volumes (5 cases)

NO.	Level of competency*	Location	Signature

Perform Diffusion (5 cases)

NO.	Level of competency*	Location	Signature

* Level of competency
A- Independent performance
B- Performance under supervision
C- Observed



C- Procedures log book Perform CPET (5 cases)

NO.	Level of competency*	Location	Signature

Interpret CPET (10 cases)

NO.	Level of competency*	Location	Signature

* Level of competency
A- Independent performance
B- Performance under supervision
C- Observed



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)		(4)		(6)	strongly agree (7)
			(3)	(5)				
Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of his field.								
Appraise scientific evidence.								
Continuously improve patient care based on constant self-evaluation and <u>life-long learning</u> .								
Participate in clinical audit and research projects.								



General skills	could not judge (0)	strongly disagree(1)	↩		↩		↩		strongly agree (7)
			(2)	(3)	(4)	(5)	(6)		
Practice skills of evidence-based Medicine (EBM).									
Educate and evaluate students, residents and other health professionals.									
Design logbooks.									
Design clinical guidelines and standard protocols of management.									
Appraise evidence from scientific studies related to the patients' health problems.									
Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.									
Use information technology to manage information, access on- line medical information; for the important topics.									
Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:- <ul style="list-style-type: none"> • <u>Present</u> a case. • <u>Write</u> a consultation note. • <u>Inform patients</u> of a diagnosis and therapeutic plan Completing and maintaining comprehensive. • Timely and legible <u>medical records</u>. • Teamwork skills. 									



كلية الطب

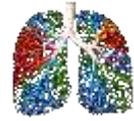


Chest Department
Faculty of Medicine

General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Create and sustain a therapeutic and ethically sound relationship with patients.								
Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.								
Work effectively with others as a member or leader 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, and business practices.								
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.								
Work effectively in health care delivery settings and systems related to specialty including good administrative and time management.								
Practice cost-effective healthcare and resource allocation that does not compromise quality of care.								



كلية الطب



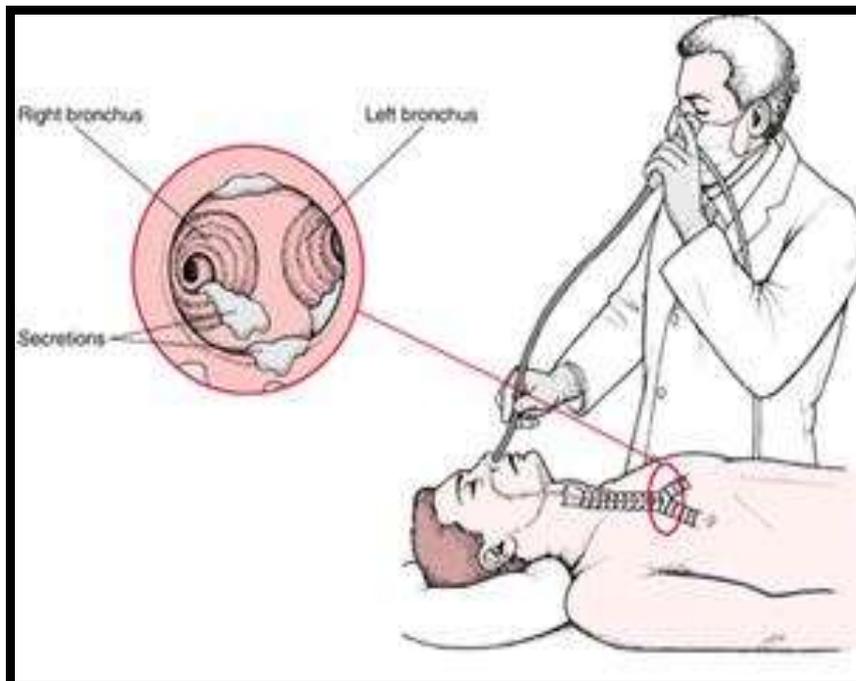
Chest Department
Faculty of Medicine

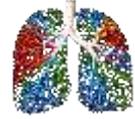
General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Advocate for quality patient care and assist patients in dealing with system complexities.								
Design, monitor and evaluate specification of under and post graduate courses and programs.								
Act as a chair man for scientific meetings including time management								

Unit (Module) 4

Diagnostic & Interventional Bronchoscopy

Diagnostic & Interventional Bronchoscopy & Medical Thoracoscopy





Unit (Module) 4
Diagnostic & Interventional Bronchoscopy & Medical
Thoracoscopy

Unit Diagnostic & Interventional Bronchoscopy
& Medical Thoracoscopy

A- Clinical case log book

Requirements

- **Credit points: 1 point for didactic (lectures, seminars, tutorial) and 6.35 point for training.**
 - Minimal rate of attendance 80% of training and didactic
 - MCQ Assessment (One MCQ examination at the second half of the third year)



Year 2

(1 credit point for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 4 Diagnostic & Interventional Bronchoscopy & Medical Thoracoscopy	1	Chest	Year 2	100 % of the didactics of Unit 4
	0.5		5 hours <ul style="list-style-type: none"> ➤ Indications of Diagnostic Bronchoscopy, ➤ Early detection of lung cancer. ➤ the principles & physics for Fibro-optic Bronchoscopy 	
	0.5		5 hours <ul style="list-style-type: none"> ➤ Each interventional modality including that of Laser, Autofluorescence bronchoscopy, Argon plasma coagulation, cryotherapy, electrocautery, photodynamic therapy and endobronchial ultrasound. ➤ Rigid bronchoscopy ➤ Medical Thracoscopy 	
Student signature			Principle coordinator Signature	Head of the department signature

(6.35 credit points for training in Unit 3) could be achieved in any year

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Bronchoscopy unit	6.35	Chest department	Any year	100% of the training in Unit 4
	5		Practice for at least 5 weeks or (30 session) in Bronchoscopy unit including log of the procedure mentioned below	79%
	1.35		➤ Formative Assessment	21%
Student signature			Principle coordinator Signature	Head of the department signature

✚ Log of :

- Perform under supervision (assess) 15 diagnostic bronchoscopy
- Perform independently 10 diagnostic bronchoscopy
- Assess in performance of 10 interventional bronchoscopy
- Assess in performance of 5 medical thoracoscopy



Assess in performance of 10 interventional bronchoscopy

NO.	Level of competency*	Location	Signature

Assess in performance of 5 Medical thoracoscopy

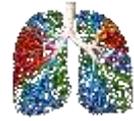
NO.	Level of competency*	Location	Signature

* Level of competency

A- Independent performance

B- Performance under supervision

C- Observed



Postgraduate student's program Rotation in training assessment

* **Name:**

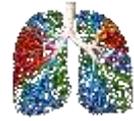
* **Period of training From:**

To:

* **Site:**

*Rotation

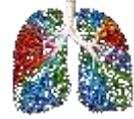
General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of his field.								
Appraise scientific evidence.								
Continuously improve patient care based on constant self-evaluation and <u>life-long learning</u> .								
Participate in clinical audit and research projects.								



General skills	could not judge (0)	strongly disagree(1)	(2)		(3)		(4)		(5)		(6)	strongly agree (7)
Practice skills of evidence-based Medicine (EBM).												
Educate and evaluate students, residents and other health professionals.												
Design logbooks.												
Design clinical guidelines and standard protocols of management.												
Appraise evidence from scientific studies related to the patients' health problems.												
Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.												
Use information technology to manage information, access on- line medical information; for the important topics.												
Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:- <ul style="list-style-type: none"> • <u>Present</u> a case. • <u>Write</u> a consultation note. • <u>Inform patients</u> of a diagnosis and therapeutic plan Completing and maintaining comprehensive. • Timely and legible <u>medical records</u>. • Teamwork skills. 												



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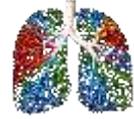


Chest Department
Faculty of Medicine

General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Create and sustain a therapeutic and ethically sound relationship with patients.								
Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.								
Work effectively with others as a member or leader 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, and business practices.								
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.								
Work effectively in health care delivery settings and systems related to specialty including good administrative and time management.								
Practice cost-effective healthcare and resource allocation that does not compromise quality of care.								



كلية الطب



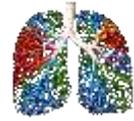
Chest Department
Faculty of Medicine

General skills	could not judge (0)	strongly disagree(1)	↩ ↪		↩ ↪		↩ ↪	strongly agree (7)
			(2)	(3)	(4)	(5)		
Advocate for quality patient care and assist patients in dealing with system complexities.								
Design, monitor and evaluate specification of under and post graduate courses and programs.								
Act as a chair man for scientific meetings including time management								

Unit (Module) 5

Sleep Medicine





Unit (Module) 5

Sleep Medicine

Requirements

Clinical cases log book

- **Credit points: 1 point for didactic (lectures, seminars, tutorial) and 6.35 point for training.**
 - Minimal rate of attendance 80% of training and didactic
 - MCQ Assessment (One MCQ examination at the first half of the fourth year)



Year 3

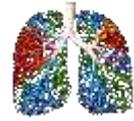
(1 credit point for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Unit 5 Sleep Medicine	1	Chest	Year 3	100 % of the didactics of Unit 5
	0.5		5 hours ➤ Obstructive sleep apnea ➤ Central sleep apnea ➤ Nocturnal hypoventilation in other diseases (COPD, restrictive disease, asthma) ➤ Overlap syndrome	
	0.5		5 hours ➤ Preoperative care and management of patients with Obstructive sleep apnea ➤ Polysomnography ➤ CPAP therapy	
Student signature			Principle coordinator Signature	Head of the department signature



(6.35 credit points for training in Unit 3) could be achieved in year 3 or 4

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Sleep unit	6.35	Chest department	Year 3 or 4	100 % of the training in Unit 5
	5		Practice in sleep unit for 5 weeks including <ul style="list-style-type: none"> ➤ Attend 25 polysomnography ➤ Manual scoring of 10 polysomnography ➤ Interpret 10 polysomnographic reports ➤ Perform 5 polysomnography 	79%
	1.35		➤ Formative Assessment	21%
Student signature			Principle coordinator Signature	Head of the department signature



B- Procedures log book

Manual scoring of 10 polysomnography (Number 10)

NO.	Level of competency*	Location	Signature

Interpret 10 polysomnographic reports (Number 10)

NO.	Level of competency*	Location	Signature

* Level of competency

A- Independent performance

B- Performance under supervision

C- Observed



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)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of his field.								
Appraise scientific evidence.								
Continuously improve patient care based on constant self-evaluation and <u>life-long learning</u> .								
Participate in clinical audit and research projects.								



General skills	could not judge (0)	strongly disagree(1)	↔		↔		↔		strongly agree (7)
			(2)	(3)	(4)	(5)	(6)		
Practice skills of evidence-based Medicine (EBM).									
Educate and evaluate students, residents and other health professionals.									
Design logbooks.									
Design clinical guidelines and standard protocols of management.									
Appraise evidence from scientific studies related to the patients' health problems.									
Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.									
Use information technology to manage information, access on- line medical information; for the important topics.									
Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:- <ul style="list-style-type: none"> • <u>Present</u> a case. • <u>Write</u> a consultation note. • <u>Inform patients</u> of a diagnosis and therapeutic plan Completing and maintaining comprehensive. • Timely and legible <u>medical records</u>. • Teamwork skills. 									



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Chest Department
Faculty of Medicine

General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Create and sustain a therapeutic and ethically sound relationship with patients.								
Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.								
Work effectively with others as a member or leader 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, and business practices.								
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.								
Work effectively in health care delivery settings and systems related to specialty including good administrative and time management.								
Practice cost-effective healthcare and resource allocation that does not compromise quality of care.								

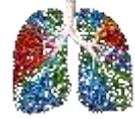


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Chest Department
Faculty of Medicine

General skills	could not judge (0)	strongly disagree(1)	↔		↔		(6)	strongly agree (7)
			(2)	(3)	(4)	(5)		
Advocate for quality patient care and assist patients in dealing with system complexities.								
Design, monitor and evaluate specification of under and post graduate courses and programs.								
Act as a chair man for scientific meetings including time management								



Elective Course 1

Requirements

● **Credit points:** 1.5 credit point.

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

One of these courses

- Advanced medical statistics.
- Evidence based medicine.
- Advanced infection control.
- Quality assurance of medical education.
- Quality assurance of clinical practice.
- -Hospital management



Elective Course 2

Requirements

● **Credit points:** 1.5 credit point.

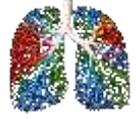
- Minimal rate of attendance 80% of lectures and 80% of training

One of these courses

- Advanced medical statistics.
- Evidence based medicine.
- Advanced infection control.
- Quality assurance of medical education.
- Quality assurance of clinical practice.
- -Hospital management



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Chest Department
Faculty of Medicine

الرسائل العلمية

عنوان الرسالة

عربي: _____

انجليزي: _____

المشرفون: _____

1- _____

2- _____

3- _____

4- _____

تاريخ القيد لدرجة: / / _____

تاريخ التسجيل الموضوع: _____

المتابعة الدورية: _____

التاريخ	ما تم انجازه من بروتوكول البحث	المتبقي	توقيع المشرفين



كلية الطب



Chest Department
Faculty of Medicine

Declaration

Course Structure Mirror	Responsible (Course) Coordinator Name:	Signature	Date
First Part			
-Course 1: Medical statistics			
-Course 2: Research methodology			
-Course 3: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research			
-Course 4: Chest Disease and Tuberculosis 1(Applied chest physiology & pathology)			
Second Part			
Course 5: Chest Disease and TB 2			
Unit (Module)1			
Unit(Module) 2			
Unit (Module)3			
Unit (Module)4			
Unit (Module)5			
- Elective Course (1) Certificate Dates:			
- Elective Course (2) Certificate Dates:			
- M. D. Thesis Acceptance Date:			
- Fulfillment of required credit points prior to final examination			
Chest M.D. Degree Principle Coordinator:			
Date approved by Chest Department Council:			

يعتمد ،
رئيس القسم

أ.د.