



COURSE SPECIFICATION

(Chest Medicine and respiratory critical care)

Faculty of Medicine– Mansoura University

(A) Administrative information

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| (1) Programme offering the course. | Master degree of chest medicine |
| (2) Department offering the programme. | Chest Medicine Department |
| (3) Department responsible for teaching the course. | Chest Medicine Department |
| (4) Part of the programme. | Second Part (3 semesters) |
| (5) Date of approval by the Department's council | 15-3-2016 |
| (6) Date of last approval of programme specification by Faculty council | 9-8-2016 |
| (7) Course title. | Chest Medicine and respiratory critical care |
| (8) Course code. | 2 nd part: CHEST 511 |
| (9) Credit hours. | 17 credit hours lectures and 10h practical) |
| (10) Total teaching hours. | (255 h lectures and 300 h practical) |

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows: (either to be written in items or as a paragraph)

1- To produce graduate able to acquire the competence and experience to effectively manage patients with different chest diseases.

2- To provide the candidate with Update in diagnostic and therapeutic protocols of chest diseases and respiratory critical care.

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

A1-recognize clinical approach to cardinal chest symptoms (cough, expectoration, dyspnea, hemoptysis, wheezes and chest pain)

A2- Explain indication,contraindications,techniques and complications of different diagnostic procedures

A3- recognizes basic guidelines for diagnosis and treatment of COPD

A4- Explain pneumonia guidelines in its diagnosis, risk stratification and treatment

A5-recognize different types of pleural effusion and how to reach diagnosis of different types(transudative,exudative pleural effusion)

A6-define spontanous and traumatic pneumothorax and how to differentiate between them

A7-recognize causes and treatment of pneumonia in special hosts (HIV,organ transplantation)

A8-identify guidelines in diagnosis and treatment of pulmonary hypertension and pulmonary embolism

A9- Explain different types of vasculitis and how to suspect ,diagnose those with chest involvement

A10-recognize basic principles of mechanical ventilation and neutrition guidelines in ICU(enteral and parentral neutrition)

A11- Explain basic guidelines in diagnosis of pulmonary and extrapulmonary tuberculosis

A12- recognizes liver, endocrine, renal, hematological and neurological chest relationship

A13- Explain paraneoplastic syndromes associate lung cancer

A14-recognize basics of diagnosis and treatment of lung cancer

A15-recognize recent treatment modalities in lung cancer

A16-identify pleural tumors and how to diagnose and treat

A17- classify different chest wall abnormalities and their impact on chest function

B- Intellectual skills

B1- Able to interpret pulmonary symptoms and suspect the provisional diagnosis

B2- able to select proper antibiotics in different chest infection

B3- able to interpret ABG properly

B4- able to choose proper non invasive positive pressure ventilation according to patient condition and proper pressure adjustment

B5- proper chest Xray, CT interpretation

C- Professional/practical skills

C1- able to take history properly(chest sheet and sleep sheet)

C2- able to perform general and local examination effectively

C3-proper patient preparation before any diagnostic or therapeutic procedure

C4- able to perform diagnostic and therapeutic fiberoptic bronchoscopy effectively

C5- To learn how to take and interpret ABG sample

D- Communication & Transferable skills

D1- Develop communication and presentation skills

D2- Demonstrate teamwork and interpersonal skills

D3- Competently use information technology

D4- Demonstrate competence in problem solving

D5- Develop personal and career development plan

D6- Develop an autonomous and effective approach of lifelong learning

D7- Develop professional, ethical and legal practice

(3) Course content:

| Subjects | Lectures | Clinical | Total Teaching Hours |
|--|----------|----------|----------------------|
| Chest medicine and respiratory critical care course | | | |
| Module (1): | | | |
| 1- Diagnostic methods | 20 | | |
| 2- Chronic obstructive lung diseases (COPD, asthma and others) | 20 | | |
| 3- Diffuse parenchymal lung diseases | 10 | | |
| 4- Disorders of pulmonary circulation | 10 | | |
| 5- Ethical, medicolegal aspects and patient safety in respiratory medicine | 10 | | |
| | | | |
| Module (2): | | | |
| 1- Pulmonary infections | 20 | | |
| 2- Tuberculosis | 15 | | |
| 3- Respiratory critical care | 20 | | |
| 4- Respiratory failure | 10 | | |
| 5- Occupational and environmental disorders | 10 | | |
| 6- Perioperative consideration in respiratory medicine | 10 | | |
| | | | |
| Module (3): | | | |
| 1- Disorders of chest wall, diaphragm and mediastinum | 10 | | |
| 2- Disorders of pleura | 20 | | |
| 3- Sleep disordered breathing | 10 | | |
| 4- Neoplasm of the lung | 20 | | |
| 5- Chest and other body system interrelations | 20 | | |
| 6- Iatrogenic lung diseases | 20 | | |
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| Subjects | Lectures | Clinical | Total Teaching Hours |
|----------|----------|----------|----------------------|
| | | | |
| | 255 | | |

| Subjects | Lectures | Clinical | Total Teaching Hours |
|---|----------|----------|----------------------|
| Chest medicine and respiratory critical care practical course | | | |
| Module (1): | | | |
| <u>Clinical part:</u> | | | |
| History taking | | 30 | |
| General examination | | 30 | |
| Local examination | | 30 | |
| Radiological evaluation | | 30 | |
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| Module (2): FOB | | | |
| Preparation, introduction | | 30 | |
| Navigation, interpretation | | 30 | |
| Intervention(cryotherapy,electrocautery,argon plasma,biopsy taken and chemical injections) | | 30 | |
| Special probe | | 30 | |
| | | | |
| Module (3): | | | |
| Pulmonary function tests report interpretation | | 15 | |
| ABG interpretation | | 15 | |
| Sleep : | | 30 | |

| Subjects | Lectures | Clinical | Total Teaching Hours |
|--|----------|----------|----------------------|
| Sleep sheet sleep staging, polysomnography interpretation NIPPV adjustment(CPAP,BIPAP) | | | |
| | | 300 | |

(4) Teaching methods.

- 4.1: lectures, seminars, workshops
- 4.2: clinical sessions and work experience
- 4.3: Problem solving, case studies
- 4.4: directed and self directed learning activities

(5) Assessment methods.

Assessment schedule.

Assessment 1: Written exam after 30 months of MS registration or 36 months of job admission

Assessment 2: Oral exam after 30 months of MS registration or 36 months of job admission

Assessment 3: OSCE Clinical exam after 30 months of MS registration or 36 months of job admission

Assessment 4: Logbook

Assessment 5: MCQ at the end of each semester

Percentage of each Assessment .

MCQ 60

Written exam. 240

OSCE Clinical exam. 100

Structured Oral exam. 100

Practical exam. 100

Total. 600

(6) References of the course:

- 6.1. Hand books: Oxford handbook of respiratory medicine
- 6.2. Text books
 - Fishman's Pulmonary Diseases and Disorders
 - Crofton and Douglas's Respiratory Disease
 - Eagan's fundamentals of respiratory care
- 6.3. Journals: Periodicals of American Journal of Chest Diseases
Periodicals of European Respiratory Journal
Periodicals of Chest Medicine
- 6.4. Websites: Update guidelines of Asthma, COPD, Lung Cancer, Pulmonary Infections
www.GINA.com, www.GOLD.com,

(7) Facilities and resources mandatory for course completion:

Teaching rooms: Patients wards, Pulmonary function tests, Arterial Blood Gases, Respiratory Critical Care wards, Sleep Medicine Laboratory, Allergy Immunology Laboratory, Bronchoscopy wards.

Course coordinator:

Dr. Dina Aboelkhair, Lecturer of chest medicine

Dr. Heba Wagih, Assistant lecturer of chest medicine

Head of the department: Prof. Mohamad khairy

Date: 31-1-2015